

## ***APPENDIX 1A***

### ***Supplemental Tables***

TABLE 1A-1 Locations Where Rover Pipelines Will Be Adjacent to Existing Rights-of-Way.....	1
TABLE 1A-2 Locations of Pipelines and Aboveground Facilities .....	7
TABLE 1A-3 Additional Temporary Workspace Requirements.....	13
TABLE 1A-4 Permanent and Temporary Access Roads.....	72
TABLE 1A-5 Contractor Storage Yards.....	83
TABLE 1A-6 Hydrostatic Test Water Source and Discharge Locations.....	84
TABLE 1A-7 Proposed Horizontal Directional Drill (HDD) Locations .....	90
TABLE 1A-8 Road and Railroad Crossing Methods .....	92
TABLE 1A-9 Permits and Approvals .....	123
TABLE 1A-10 Proposed Minor Projects in the Vicinity of the Rover Pipeline Project.....	126
TABLE 1A-11 Proposed Major Projects in the Vicinity of the Rover Pipeline Project.....	135

**TABLE 1A-1**  
**Locations Where Rover Pipelines Will Be Adjacent to Existing Rights-of-Way**

Pipeline Segment	From MP	To MP	Length (mi)	Approximate. Offset Distance (feet)	Overlap (feet)	Operator	Product	Ownership
<b>Supply Laterals:</b>								
Sherwood Lateral	0.10	0.17	0.1	0'	0'-20'	Unknown Pipeline	Unknown	Unknown
	1.57	1.78	0.2	0'	0'-20'	Eureka Hunter Pipeline	Gas	Easement
	5.15	5.26	0.1	0'	0'-20'	Houston Exploration Co. Pipeline	Unknown	Unknown
	6.25	6.42	0.2	0'	0'-20'	Dominion Pipeline	Unknown	Unknown
	8.89	9.04	0.1	0'	0'-20'	Union Carbide Pipeline	Unknown	Easement
	14.28	14.47	0.2	0'	0'-20'	Console Energy Pipeline	Unknown	Unknown
	16.90	17.10	0.2	0'	0'-20'	Texas Keystone Pipeline	Unknown	Easement
	17.61	17.93	0.3	0'	0'-20'	Texas Keystone Pipeline	Natural Gas	Unknown
	20.38	20.74	0.4	0'	0'-20'	Unknown Pipeline	Unknown	Unknown
	27.83	28.17	0.3	0'	0'-20'	Unknown Pipeline	Unknown	Unknown
	37.31	37.77	0.5	0'	0'-20'	Eureka Hunter Pipeline	Gas	Unknown
CGT Lateral	0.90	2.20	1.3	0'	0'-20'	Summit Midstream Pipeline	Natural Gas	Unknown
	2.71	4.00	1.3	0'	0'-20'	Summit Midstream Pipeline	Natural Gas	Unknown
	4.18	4.24	0.1	0'	0'-20'	Summit Midstream Pipeline	Natural Gas	Unknown
	4.74	5.04	0.3	0'	0'-20'	Summit Midstream Pipeline	Natural Gas	Unknown
	5.04	5.25	0.2	0'	0'-20'	Dominion Pipeline	Unknown	Unknown
	5.25	5.68	0.4	0'	0'-20'	Energy Transfer Pipeline	Unknown	Unknown
Seneca Lateral	0.53	2.23	1.7	0'	0'-20'	Texas Eastern Pipeline	Gas	Unknown
	2.94	3.36	0.4	0'	0'-20'	Texas Eastern Pipeline	Gas	Unknown
	3.88	5.92	2.0	0'	0'-20'	Texas Eastern Pipeline	Gas	Unknown
	6.14	7.94	1.8	0'	0'-20'	Texas Eastern Pipeline	Gas	Unknown
	8.25	8.67	0.4	0'	0'-20'	Texas Eastern Pipeline	Gas	Unknown
	9.03	9.27	0.2	0'	0'-20'	Texas Eastern Pipeline	Gas	Unknown
	9.37	12.20	2.8	0'	0'-20'	Texas Eastern Pipeline	Gas	Unknown

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**Locations Where Rover Pipelines Will Be Adjacent to Existing Rights-of-Way**

Pipeline Segment	From MP	To MP	Length (mi)	Approximate. Offset Distance (feet)	Overlap (feet)	Operator	Product	Ownership
Seneca Lateral	12.66	12.97	0.3	0'	0'-20'	Texas Eastern Pipeline	Gas	Unknown
	13.19	15.37	2.2	0'	0'-20'	Texas Eastern Pipeline	Gas	Unknown
	15.48	18.42	2.9	0'	0'-20'	Texas Eastern Pipeline	Gas	Unknown
	19.03	19.75	0.7	0'	0'-20'	Texas Eastern Pipeline	Gas	Unknown
	19.91	21.73	1.8	0'	0'-20'	Texas Eastern Pipeline	Gas	Unknown
	22.31	22.83	0.5	0'	0'-20'	Texas Eastern Pipeline	Gas	Unknown
	23.01	23.13	0.1	0'	0'-20'	Texas Eastern Pipeline	Gas	Unknown
	23.45	24.32	0.9	0'	0'-20'	Texas Eastern Pipeline	Gas	Unknown
	25.01	25.22	0.2	0'	0'-20'	Texas Eastern Pipeline	Gas	Unknown
	25.22	25.51	0.3	0'	0'-20'	Tallgrass Energy Pipeline	Gas	Unknown
	24.32	24.70	0.4	0'	0'-30'	Transmission Line	Power	Unknown
Berne Lateral	0.06	0.13	0.1	0'	0'-20'	Mark West Pipeline	Gas	Unknown
	0.19	0.45	0.3	0'	0'-20'	Blue Racer Midstream Pipeline	Gas	Unknown
	0.53	0.56	0.0	0'	0'-20'	Blue Racer Midstream Pipeline	Gas	Unknown
	0.56	0.87	0.3	0'	0'-20'	Blue Racer Midstream Pipeline	Gas	Unknown
	1.04	1.13	0.1	0'	0'-20'	Blue Racer Midstream Pipeline	Gas	Unknown
	1.58	1.75	0.2	0'	0'-20'	Blue Racer Midstream Pipeline	Gas	Unknown
	2.43	2.49	0.1	0'	0'-20'	Unknown Pipeline	Unknown	Unknown
	2.49	3.24	0.8	0'	0'-20'	Unknown Pipeline	Unknown	Unknown
	1.13	1.58	0.5	0'	0'-30'	Transmission Line	Power	Unknown
	1.82	2.43	0.6	0'	0'-30'	Transmission Line	Power	Unknown
Clarington Lateral	0.69	1.59	0.9	0'	0'-20'	East Ohio Gas Company Pipeline	Unknown	Unknown
	2.08	3.01	0.9	0'	0'-20'	East Ohio Gas Company Pipeline	Unknown	Unknown
	5.12	5.81	0.7	0'	0'-20'	East Ohio Gas Company Pipeline	Unknown	Unknown
	6.36	7.46	0.1	0'	0'-20'	East Ohio Gas Company Pipeline	Unknown	Unknown

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**Locations Where Rover Pipelines Will Be Adjacent to Existing Rights-of-Way**

Pipeline Segment	From MP	To MP	Length (mi)	Approximate Offset Distance (feet)	Overlap (feet)	Operator	Product	Ownership
Clarrington Lateral	7.96	8.51	0.5	0'	0'-20'	Columbia Gas Pipeline	Unknown	Unknown
	9.41	9.69	0.3	0'	0'-20'	East Ohio Gas Company Pipeline	Unknown	Unknown
	11.44	12.53	1.1	0'	0'-20'	Dominion Pipeline	Unknown	Unknown
	13.05	15.10	2.1	0'	0'-20'	Dominion Pipeline	Unknown	Unknown
	15.10	18.20	3.1	0'	0'-20'	East Ohio Gas Company Pipeline	Unknown	Unknown
	18.88	21.29	2.4	0'	0'-20'	East Ohio Gas Company Pipeline	Unknown	Unknown
	22.23	22.47	0.2	0'	0'-20'	East Ohio Gas Company Pipeline	Unknown	Unknown
	22.47	22.60	0.1	0'	0'-20'	East Ohio Gas Company Pipeline	Unknown	Unknown
	22.86	23.13	0.3	0'	0'-20'	Dominion Pipeline	Unknown	Unknown
	31.36	31.53	0.2	0'	0'-20'	East Ohio Gas Company Pipeline	Unknown	Unknown
	3.01	3.16	0.2	0'	0'-30'	Overhead Electric Powerline	Power	Unknown
	29.17	29.76	0.6	0'	0'-30'	Transmission Line	Power	Unknown
	32.14	32.50	0.4	0'	0'-30'	Transmission Line	Power	Unknown
Majorsville Lateral	1.94	2.18	0.2	0'	0'-20'	Unknown Pipeline	Unknown	Unknown
	7.00	7.22	0.2	0'	0'-20'	Dominion Pipeline	Unknown	Unknown
	11.06	11.51	0.4	0'	0'-20'	Columbia Gas Pipeline	Unknown	Unknown
	18.39	19.50	1.1	0'	0'-20'	XTO Energy Pipeline	Unknown	Unknown
	19.91	20.51	0.6	0'	0'-20'	Dominion Pipeline	Unknown	Unknown
	20.45	20.92	0.5	0'	0'-20'	Dominion Pipeline	Unknown	Unknown
	0.25	0.61	0.4	0'	0'-30'	Unknown Overhead Powerline	Power	Unknown
	9.86	10.01	0.2	0'	0'-30'	American Electric Power	Power	Unknown
	14.68	14.95	0.3	0'	0'-30'	Unknown Overhead Powerline	Power	Unknown
Cadiz Lateral	--	--	0.0	--	--	None	--	--
Supply Connector	7.42	8.02	0.6	0'	0'-20'	Access Midstream Pipeline	Natural Gas	Unknown
Burgettstown Lateral	0.37	0.54	0.2	0'	0'-20'	Unknown Pipeline	Unknown	Unknown

**TABLE 1A-1**  
**Locations Where Rover Pipelines Will Be Adjacent to Existing Rights-of-Way**

Pipeline Segment	From MP	To MP	Length (mi)	Approximate Offset Distance (feet)	Overlap (feet)	Operator	Product	Ownership
Burgettstown Lateral	1.82	2.72	0.9	0'	0'-20'	Unknown Pipeline	Unknown	Unknown
	3.13	3.33	0.2	0'	0'-20'	Unknown Pipeline	Unknown	Unknown
	4.22	4.51	0.3	0'	0'-20'	Unknown Pipeline	Unknown	Unknown
	45.15	45.45	0.3	0'	0'-20'	Access Midstream	Gas	Unknown
	47.47	47.64	0.2	0'	0'-20'	Access Midstream	Gas	Unknown
	47.70	47.97	0.3	0'	0'-20'	Access Midstream	Gas	Unknown
	14.40	14.51	0.1	0'	0'-30'	American Electric Power	Power	Unknown
	15.30	16.04	0.7	0'	0'-30'	C&P WV	Power	Unknown
	29.30	29.50	0.2	0'	0'-30'	Oglethorpe Power Corporation	Power	Unknown
	50.48	51.29	0.8	0'	0'-30'	American Electric Power	Power	Unknown
<b>Subtotal: Supply Laterals</b>			<b>51.4</b>	<b>24%</b>				
Mainlines A and B	19.82	20.07	0.2	0'	0'-20'	Tennessee Gas Pipeline	Natural Gas	Easement
	20.23	20.45	0.2	0'	0'-20'	Dominion	Natural Gas	Easement
	20.89	21.18	0.3	0'	0'-20'	Unknown	Power	Unknown
	22.46	22.92	0.5	0'	0'-20'	Unknown Foreign Pipeline	Unknown	Unknown
	36.88	37.45	0.6	0'	0'-20'	Dominion	Natural Gas	Unknown
	59.70	59.95	0.3	0'	0'-20'	Dominion Pipeline	Natural Gas	Unknown
	172.83	175.85	3.0	0'	0'-20'	Columbia Gas Pipeline	Natural Gas	Easement
	176.31	178.38	2.1	0'	0'-20'	Columbia Gas Pipeline	Natural Gas	Easement
	179.52	181.12	1.6	0'	0'-20'	Columbia Gas Pipeline	Natural Gas	Easement
	181.84	183.52	1.7	0'	0'-20'	Columbia Gas Pipeline	Natural Gas	Easement
	82.21	84.98	2.8	0'	0'-30'	Osmose	Power	Easement
	111.78	112.93	1.2	0'	0'-30'	Transmission Line	Power	Easement
	113.70	115.10	1.4	0'	0'-30'	Transmission Line	Power	Easement
	119.73	121.72	2.0	0'	0'-30'	Unknown	Power	Easement

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**Locations Where Rover Pipelines Will Be Adjacent to Existing Rights-of-Way**

Pipeline Segment	From MP	To MP	Length (mi)	Approximate Offset Distance (feet)	Overlap (feet)	Operator	Product	Ownership
Mainlines A and B	126.43	132.45	6.0	0'	0'-30'	Oglethorpe Power Company	Power	Easement
	133.71	135.10	1.4	0'	0'-30'	Oglethorpe Power Company	Power	Easement
	135.72	136.98	1.3	0'	0'-30'	Oglethorpe Power Company	Power	Easement
	138.09	139.85	1.8	0'	0'-30'	Oglethorpe Power Company	Power	Easement
	141.05	143.73	2.7	0'	0'-30'	Oglethorpe Power Company	Power	Easement
	144.39	146.28	1.9	0'	0'-30'	Oglethorpe Power Company	Power	Easement
	146.97	147.24	0.3	0'	0'-30'	Oglethorpe Power Company	Power	Easement
	147.95	150.73	2.8	0'	0'-30'	Oglethorpe Power Company	Power	Easement
	153.70	155.23	1.5	0'	0'-30'	Oglethorpe Power Company	Power	Easement
Mainline A	184.15	186.18	2.0	0'	0'-20'	Columbia Gas Pipeline	Natural Gas	Easement
	187.15	190.17	3.0	0'	0'-20'	Columbia Gas Pipeline	Natural Gas	Easement
	193.66	195.63	2.0	0'	0'-20'	Columbia Gas Pipeline	Natural Gas	Easement
	196.60	197.74	1.1	0'	0'-20'	Columbia Gas Pipeline	Natural Gas	Easement
<b>Subtotal: Mainlines A and B</b>			<b>45.5</b>	<b>24%</b>				
Market Segment	67.72	67.99	0.3	0'	0'-20'	Enbridge Pipeline	Petroleum	Unknown
	69.22	70.43	1.2	0'	0'-20'	Panhandle Eastern Pipeline	Gas	Unknown
	72.08	72.16	0.1	0'	0'-20'	Panhandle Eastern Pipeline	Gas	Unknown
	74.11	74.23	0.1	0'	0'-20'	Consumers Energy	Gas	Easement
	170.89	171.56	0.7	0'	0'-20'	Merit Energy	Gas	Unknown
	171.56	172.35	0.8	0'	0'-20'	Merit Energy	Gas	Unknown
	172.35	173.39	1.0	0'	0'-20'	Great Lakes Gas Pipeline	Gas	Unknown
	173.39	173.96	0.6	0'	0'-20'	Merit Energy	Gas	Unknown
	173.96	174.33	0.4	0'	0'-20'	Great Lakes Gas Pipeline	Gas	Unknown
	174.33	175.17	0.8	0'	0'-20'	Merit Energy	Gas	Unknown
	176.02	178.20	2.2	0'	0'-20'	Merit Energy	Gas	Unknown

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**Locations Where Rover Pipelines Will Be Adjacent to Existing Rights-of-Way**

Pipeline Segment	From MP	To MP	Length (mi)	Approximate. Offset Distance (feet)	Overlap (feet)	Operator	Product	Ownership
Market Segment	178.44	178.83	0.4	0'	0'-20'	Merit Energy	Gas	Unknown
	183.10	183.97	0.9	0'	0'-20'	Merit Energy	Gas	Unknown
	188.52	190.22	1.7	0'	0'-20'	Transcanada Pipeline	Gas	Unknown
	190.87	191.36	0.5	0'	0'-20'	Transcanada Pipeline	Gas	Unknown
	198.60	199.73	1.1	0'	0'-20'	Great Lakes Gas Pipeline	Gas	Unknown
	200.44	200.76	0.3	0'	0'-20'	Great Lakes Gas Pipeline	Gas	Unknown
	201.19	201.52	0.3	0'	0'-20'	Great Lakes Gas Pipeline	Gas	Easement
	201.89	202.08	0.2	0'	0'-20'	Transcanada Pipeline	Gas	Easement
	203.48	205.55	2.1	0'	0'-20'	Great Lakes Gas Pipeline	Gas	Easement
	61.16	62.00	0.8	0'	0'-30'	ITC	Power	Fee
	62.00	62.78	0.8	0'	0'-30'	Consumers Energy	Power	Fee
	78.16	80.53	2.4	0'	0'-30'	ITC	Power	Fee
	82.76	85.71	2.9	0'	0'-30'	ITC	Power	Fee
	86.78	87.17	0.4	0'	0'-30'	ITC	Power	Fee
	87.41	87.54	0.1	0'	0'-30'	ITC	Power	Fee
	88.00	88.86	0.9	0'	0'-30'	ITC	Power	Fee
	90.44	94.21	3.8	0'	0'-30'	ITC	Power	Fee
	94.21	98.62	4.4	0'	0'-30'	ITC	Power	Fee
	99.15	102.38	3.2	0'	0'-30'	ITC	Power	Fee
	105.90	108.98	3.1	0'	0'-30'	ITC	Power	Fee
	112.93	113.07	0.1	0'	0'-30'	Unknown Power LINE	Power	Unknown
	143.02	148.98	6.0	0'	0'-30'	ITC	Power	Fee
	193.42	194.81	1.4	0'	0'-30'	Transmission Line	Power	Fee
<b>Subtotal: Market Segment</b>			<b>45.9</b>	<b>22%</b>				
<b>Total</b>			<b>142.8</b>	<b>23%</b>				

**TABLE 1A-2**  
**Locations of Pipelines and Aboveground Facilities**

Pipeline Segment	Facility	Length (miles)	Location (MP)	Horsepower	Comments
<b>Supply Laterals:</b>					
Sherwood Lateral	Pipeline	54.0	--	--	New 36-inch-diameter pipeline
	Sherwood Compressor Station Sherwood Receipt Meter Station Pig trap SW-MLV-01	--	0.00	14,205	New compressor station Within compressor station site Launcher Mainline Valve
	CGT Receiver/Tie-In Site	--	0.21	--	Tie-in with CGT Lateral (also listed on CGT Lateral)
	SW-MLV-02	--	16.54	--	Mainline Valve
	SW-MLV-03	--	29.13	--	Mainline Valve
	SW-MLV-04	--	35.31	--	Mainline Valve
	SW-MLV-05	--	42.55	--	Mainline Valve
	Sherwood Receiver/Tie-In Site Pig trap SW-MLV-06	--	52.31	--	Tie-In with Seneca Lateral (also listed on Sherwood Lateral) Receiver Mainline Valve
CGT Lateral	Pipeline	5.7	--	--	New 24-inch-diameter pipeline
	CGT Receiver/Tie-In Site Pig trap CGT-MLV-01	--	0.00	--	Tie-in with Sherwood Lateral (also listed on Seneca Lateral) Launcher Mainline valve
	CGT Delivery Meter Station Pig trap CGT-MLV-03	--	5.70	--	New meter station Receiver Mainline Valve
Seneca Lateral	Pipeline	25.6	--	--	New 42-inch-diameter pipeline
	Seneca Compressor Station Seneca Receipt Meter Station Pig trap SN-MLV-01	--	0.00	18,940	New compressor station Within compressor station site Launcher Mainline Valve
	Hall Receipt Meter Station	--	3.67	--	New meter station



**TABLE 1A-2**  
**Locations of Pipelines and Aboveground Facilities**

Pipeline Segment	Facility	Length (miles)	Location (MP)	Horsepower	Comments
Seneca Lateral	Sherwood Receiver/Tie-In Site SN-MLV-02	--	16.65	--	Tie-in with Sherwood Lateral (also listed on Sherwood Lateral) Mainline Valve
	Gulfport Receipt Meter Station	--	21.88	--	New meter station
Berne Lateral	Pipeline	3.700	N/A	--	New 24-inch-diameter pipeline
	Berne Receipt Meter Station	--	0.00	--	New meter station
	Pig trap BN-MLV-01		0.00		Launcher Mainline Valve
	Pig trap BN-MLV-02	--	3.69 3.69	--	Located with the Seneca Compressor Station Mainline Valve within Seneca Compressor Station
Clarrington Lateral	Pipeline	32.6	N/A	--	New 42-inch-diameter pipeline
	Clarrington Compressor Station Three (3) receipt meter stations SN-MLV-03	--	0.35	9,470	New compressor station One receipt and two bi-directional meter stations Mainline Valve
	Majorsville Receiver/Tie-In Site CL-MLV-01	--	11.72	--	Tie-In with Majorsville Lateral (also listed on Majorsville Lateral) Mainline Valve
	CL-MLV-02	--	21.57	--	Mainline Valve
	Supply Connector Receiver/Tie-In Site Pig trap CL-MLV-03	--	32.56	--	Tie-in with Cadiz Lateral and Supply Connector (also listed on those laterals) Receiver Mainline Valve
Majorsville Lateral	Pipeline	23.9	--	--	New 24-inch-diameter pipeline
	Majorsville Receipt Meter Station Pig trap MJ-MLV-01	--	0.00	--	New meter station Launcher Mainline Valve
	Majorsville Compressor Station	--	1.14	7,100	New compressor station
	MJ-MLV-02	--	10.63	--	Mainline Valve
	MJ-MLV-03	--	14.07	--	Mainline Valve

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**Locations of Pipelines and Aboveground Facilities**

Pipeline Segment	Facility	Length (miles)	Location (MP)	Horsepower	Comments
Majorsville Lateral	Majorsville Receiver/Tie-In Site	--	23.49	--	Tie-In with Clarington Lateral (also listed on Clarington Lateral)
	Pig trap MJ-MLV-04				Receiver Mainline Valve
Cadiz Lateral	Pipeline	2.9	--	--	New 30-inch-diameter pipeline
	Cadiz Compressor Station	--	0.00	15,980	New compressor station
	Two (2) Receipt Meter Stations				New meter station
	Pig trap CD-MLV-01				Launcher Mainline Valve
Supply Connector Lines A and B	Supply Connector Receiver/Tie-In Site	--	2.85	--	Tie-in with Clarington Lateral and Supply Connector (also listed on those laterals)
	Pig trap CD-MLV-02				Receiver Mainline Valve
	Supply Connector Line A	18.8	--	--	New 42-inch-diameter pipeline
	Supply Connector Line B	18.8	--	--	New 42-inch-diameter pipeline
	Supply Connector Receiver/Tie-In Site	--	0.00	--	Tie-in with Clarington Lateral and Cadiz Lateral (also listed on those laterals)
	Pig trap MLA & MLB MLV-01				Launcher Mainline Valves (2)
Burgettstown Lateral	MLA & MLB MLV-02	--	10.09	--	Mainline Valves (2)
	Burgettstown Receiver/Tie-In Site	--	18.39	--	Tie-in with Burgettstown Lateral (also listed on Burgettstown Lateral)
	Pipeline	51.30	--	--	New 36-inch-diameter pipeline
	Burgettstown Compressor Station	--	0.00	5,175	New compressor station
	Burgettstown Receipt Meter Station				New meter station
	Pig trap BG-MLV-01				Launcher Mainline Valve
	BG-MLV-02	--	12.48	--	Mainline Valve
	BG-MLV-03	--	17.91	--	Mainline Valve
	BG-MLV-04	--	35.10	--	Mainline Valve

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**Locations of Pipelines and Aboveground Facilities**

Pipeline Segment	Facility	Length (miles)	Location (MP)	Horsepower	Comments
Burgettstown Lateral	BG-MLV-05	--	43.09	--	Mainline Valve
	Burgettstown Receiver/Tie-In Site	--	51.29	--	Tie-in with Supply Connector (also listed on Supply Connector)
	PIG TRAP BG-MLV-06				Receiver Mainline Valve
<b>Mainlines:</b>					
Mainlines A and B	Mainline A	190.6	--	--	New 42-inch-diameter pipeline
	Mainline B	183.3	--	--	New 42-inch-diameter pipeline
	Mainline Compressor Station 1		18.77	42,190	New compressor station
	Side Tap				24-inch future connection
	MLA & MLB MLV-03				Mainline Valves (2)
	MLA & MLB MLV-04	--	36.84	--	Mainline Valves (2)
	Crossover Valve	--	49.91	--	Midpoint 36-inch crossover valve between pipelines
	MLA & MLB MLV-05				Mainline Valves (2)
	MLA & MLB MLV-06	--	61.11	--	Mainline Valves (2)
	MLA & MLB MLV-07	--	72.50	--	Mainline Valves (2)
	Mainline Compressor Station 2	--	77.30	38,745	New compressor station
	Pig trap				Receiver
	MLA & MLB MLV-08				Mainline Valves (2)
	Pig trap				Launcher
	MLA & MLB MLV-09				Mainline Valves (2)
	MLA & MLB MLV-10	--	90.95	--	Mainline Valves (2)
	Crossover Valve	--	102.12	--	Midpoint 36-inch crossover valve between pipelines
	MLA & MLB MLV-11				Mainline Valves (2)
	MLA & MLB MLV-12	--	118.32	--	Mainline Valves (2)

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Pipeline Segment	Facility	Length (miles)	Location (MP)	Horsepower	Comments
Mainlines A and B	Mainline Compressor Station 3	--	127.90	34,010	New compressor station
	Pig trap				Receiver
	MLA & MLB MLV-13				Mainline Valves (2)
	Pig trap				Launcher
	MLA & MLB MLV-14				Mainline Valves (2)
	MLA & MLB MLV-15	--	144.33	--	Mainline Valves (2)
	Crossover Valve	--	157.58	--	Midpoint 36-inch crossover valve between pipelines
	MLA & MLB MLV-16		157.58		Mainline Valves (2)
Mainline A	MLA & MLB MLV-17	--	174.13	--	Mainline Valves (2)
	MLA & MLB MLV-18	--	189.80	--	Mainline Valves (2)
	Mainline B Receiver Site	--	202.06	--	Receiver at end of Line B
	Pig trap				Receiver
	MLA & MLB MLV-19				Mainline Valves (2)
	ANR Delivery Meter Station	--	208.86	--	New delivery meter station
	Pig trap	--	209.20	--	Receiver at Defiance Compressor Station
	MLA MLV-20				Mainline Valve at Defiance Compressor Station
Market Segment	Pipeline	209.6	N/A	N/A	New 42-inch-diameter pipeline
	Defiance Compressor Station	--	0.00	25,830	New compressor station
	PEPL Delivery Meter Station				New delivery meter station
	Pig trap				Launcher
	MKT-MLV-01				Mainline Valve
	MKT-MLV-02	--	17.15	--	Mainline Valve
	MKT-MLV-03	--	30.67	--	Mainline Valve
	MKT-MLV-04	--	48.94	--	Mainline Valve
Market Segment	MKT-MLV-05	--	58.86	--	Mainline Valve
	Consumers Energy Delivery Meter Station	--	67.84	--	New delivery meter station
	MKT-MLV-06				Mainline Valve

**TABLE 1A-2**  
**Locations of Pipelines and Aboveground Facilities**

Pipeline Segment	Facility	Length (miles)	Location (MP)	Horsepower	Comments
Market Segment	MKT-MLV-07	--	80.42	--	Mainline Valve
	MKT-MLV-08	--	87.87	--	Mainline Valve
	MKT-MLV-09	--	98.77	--	Mainline Valve
	MKT-MLV-10	--	104.10	--	Mainline Valve
	Michigan Consolidated Delivery Meter Station	N/A	113.75	N/A	New delivery meter station
	Pig trap				Receiver at midpoint
	MKT-MLV-11				Mainline Valve
	Pig trap				Launcher at midpoint
	MKT-MLV-12				Mainline Valve
	MKT-MLV-13	--	125.13	--	Mainline Valve
	MKT-MLV-14	--	135.82	--	Mainline Valve
	MKT-MLV-15	--	142.21	--	Mainline Valve
	MKT-MLV-16	--	155.68	--	Mainline Valve
	MKT-MLV-17	--	169.04	--	Mainline Valve
	MKT-MLV-18	--	181.56	--	Mainline Valve
	MKT-MLV-19	--	193.20	--	Mainline Valve
	MKT-MLV-20	--	198.36	--	Mainline Valve
	MKT-MLV-21	--	205.96	--	Isolation valve at U.S./Canada border

**TABLE 1A-3**  
**Additional Temporary Workspace Requirements**

Segment	Approx. MP	Dimensions (feet)		Acres	Reason for ATWS	Land Use <sup>1</sup>	Within 50 feet of Wetland or Waterbody <sup>2</sup>
		Width	Length				
Supply Laterals:							
Sherwood Lateral	0.20	25	150	0.09	FOREIGN PIPELINE CROSSING	FO	
	0.93	25	150	0.09	PRIVATE ROAD CROSSING / PI 90deg	FO/OP	
	0.97	25	150	0.09	FOREIGN PIPELINE / WATERBODY CROSSING / PI 90deg	OP	
	0.09	10	230	0.05	CR 50/34 (SWISHER LN) CROSSING	OP	
	0.12	15	545	0.19	US HWY 50 / CR 50/34 (SWISHER LN) CROSSING	FO/OP	
	0.20	10	615	0.14	US HWY 50 / CR 20 (MORGANS RUN RD) CROSSING	FO/OP	
	0.24	15	160	0.06	CR 20 (MORGANS RUN RD) CROSSING	FO/OP	
	0.30	10	140	0.03	MORGANS RUN CROSSING	FO/OP	
	0.30	15	140	0.05	MORGANS RUN CROSSING	FO/OP	
	0.49	15	525	0.18	SIDE SLOPE	FO	
	0.51	10	360	0.08	SIDE SLOPE	FO	
	0.63	10	85	0.02	WETLAND CROSSING	FO	W1ES-DO-218
	0.64	15	250	0.09	CONSOLE PIPELINE CROSSING	FO/OP	S1ES-DO-219
	0.69	10	55	0.01	STREAM CROSSING	FO	
	1.07	25	2460	1.41	SIDE SLOPE	FO	
	1.39	10	400	0.09	CR 50/10 (ENGLANDS RUN RD) / STREAM / UNKNOWN FOREIGN PIPELINE CROSSING	FO	
	1.39	15	400	0.14	CR 50/10 (ENGLANDS RUN RD) / STREAM / UNKNOWN FOREIGN PIPELINE CROSSING	FO	
	1.49	10	405	0.09	CR 50/10 (ENGLANDS RUN RD) / STREAM / UNKNOWN FOREIGN PIPELINE CROSSING	FO	
	1.49	15	395	0.14	CR 50/10 (ENGLANDS RUN RD) / STREAM / UNKNOWN FOREIGN PIPELINE CROSSING	FO	
	1.69	25	1870	1.07	SIDE SLOPE	FO/OP	
	1.94	15	430	0.15	EQUITABLE PRODUCTION PIPELINE / EUREKA PIPELINE CROSSING	FO	
	1.94	10	420	0.1	EQUITABLE PRODUCTION PIPELINE / EUREKA PIPELINE CROSSING	FO	
	2.02	25	495	0.28	SIDE SLOPE	FO/OP	
	2.13	10	610	0.14	DOMINION PIPELINE CROSSING / SIDE SLOPE	FO/OP	
	2.14	10	200	0.05	DOMINION PIPELINE CROSSING	FO	
	2.29	15	230	0.08	EQUITABLE PRODUCTION CO. PIPELINE CROSSING	FO	S4H-DO-249

**TABLE 1A-3**  
**Additional Temporary Workspace Requirements**

Segment	Approx. MP	Dimensions (feet)		Acres	Reason for ATWS	Land Use <sup>1</sup>	Within 50 feet of Wetland or Waterbody <sup>2</sup>
		Width	Length				
Sherwood Lateral	2.30	10	380	0.09	CR 30/3 (JOCKEY CAMP RD) / JOCKEY CAMP RUN / EQUITABLE PRODUCTION CO. PIPELINE CROSSING	FO	
	2.44	10	795	0.18	CR 30/3 (JOCKEY CAMP RD) / STREAM / UNKNOWN FOREIGN PIPELINES CROSSING	FO	S1ES-DO-126
	2.44	15	790	0.27	CR 30/3 (JOCKEY CAMP RD) / STREAM / UNKNOWN FOREIGN PIPELINES CROSSING	FO	
	2.61	25	850	0.49	SIDE SLOPE	FO	
	2.73	10	300	0.07	STREAM CROSSING	FO	
	2.73	15	300	0.1	STREAM CROSSING	FO	S1ES-DO-127 & S1ES-DO-128
	2.81	10	300	0.07	STREAM CROSSING	FO	S1ES-DO-128
	2.81	15	300	0.1	STREAM CROSSING	FO	
	3.10	25	2770	1.59	SIDE SLOPE	FO/OP	
	3.48	15	140	0.05	STREAM CROSSING	FO	S2ES-DO-122
	3.52	15	65	0.02	STREAM CROSSING	FO/OP	S2ES-DO-122
	3.58	15	300	0.1	STREAM CROSSING	FO	
	3.58	10	300	0.07	STREAM CROSSING	FO	
	3.84	25	1105	0.63	SIDE SLOPE	FO	
	3.90	10	190	0.04	UNKNOWN FOREIGN PIPELINE CROSSING	FO	
	3.90	15	155	0.05	UNKNOWN FOREIGN PIPELINE CROSSING	FO	
	3.98	25	690	0.4	SIDE SLOPE	FO	
	4.11	15	100	0.03	NATURAL DRAINAGE CROSSING	FO	
	4.11	10	100	0.02	NATURAL DRAINAGE CROSSING	FO	S2ES-DO-124
	4.33	15	365	0.13	CR 5/8 (WELL RD) / STREAMS CROSSING	FO/OP	
	4.35	10	170	0.04	CR 5/8 (WELL RD) / STREAMS CROSSING	FO/OP	
	4.42	25	550	0.32	SIDE SLOPE	FO	
	4.53	15	320	0.11	STREAM / UNKNOWN FOREIGN PIPELINE CROSSING	FO	S4ES-DO-103
	4.63	10	385	0.09	CR 5 (ROCK RUN RD) / STREAM CROSSING	FO	
	4.64	15	390	0.13	CR 5 (ROCK RUN RD) / STREAM CROSSING	FO	
	4.76	15	595	0.2	CR 34 (PIGGIN RUN RD) / STREAMS CROSSING	FO/OP	S2ES-DO-109
	4.77	10	660	0.15	CR 34 (PIGGIN RUN RD) / STREAMS CROSSING	FO/OP	S1ES-DO-108
	4.97	10	285	0.07	STREAM / UNKNOWN FOREIGN PIPELINE CROSSING	FO	
	4.97	15	255	0.09	STREAM / UNKNOWN FOREIGN PIPELINE CROSSING	FO	
	5.04	25	445	0.26	UNKNOWN FOREIGN PIPELINE CROSSING / SIDE SLOPE	OP/FO	

**TABLE 1A-3**  
**Additional Temporary Workspace Requirements**

Segment	Approx. MP	Dimensions (feet)		Acres	Reason for ATWS	Land Use <sup>1</sup>	Within 50 feet of Wetland or Waterbody <sup>2</sup>
		Width	Length				
Sherwood Lateral	5.34	25	1970	1.13	SIDE SLOPE	FO	
	5.50	10	100	0.02	STREAM CROSSING	FO	
	5.51	15	160	0.06	STREAM CROSSING	FO	
	5.57	10	100	0.02	STREAM CROSSING	FO	
	5.58	15	100	0.03	STREAM CROSSING	FO	
	5.63	25	515	0.3	SIDE SLOPE	FO	
	5.78	15	380	0.13	STREAM / WETLAND CROSSING	FO	
	5.78	10	385	0.09	STREAM / WETLAND CROSSING	FO	W4H-DO-252
	5.91	15	260	0.09	CR 28 (NUTTER FORK RD) / STREAM CROSSING	FO/OP	
	5.91	10	260	0.06	CR 28 (NUTTER FORK RD) / STREAM CROSSING	FO/OP	
	6.22	25	2460	1.41	DOMINION / CONSOL ENERGY PIPELINES CROSSING / SIDE SLOPE	FO/OP	
	6.62	15	295	0.1	STREAM CROSSING	FO	S2ES-DO-136
	6.62	10	295	0.07	STREAM CROSSING	FO	S2ES-DO-137 & S2ES-DO-136
	6.71	15	390	0.13	STREAM / EQUITRANS PIPELINE CROSSING	FO/OP	S2ES-DO-136
	6.71	10	385	0.09	STREAM / EQUITRANS PIPELINE CROSSING	FO/OP	S2ES-DO-135 & S2ES-DO-136
	6.79	25	450	0.26	SIDE SLOPE	FO	
	6.85	10	350	0.08	EQUITRANS / CONSOL ENERGY PIPELINES CROSSING	FO	
	6.86	15	235	0.08	EQUITRANS / CONSOL ENERGY PIPELINES CROSSING	FO/OP	
	7.01	10	240	0.06	CR 22 (WOLFPEN RUN RD) / STREAM CROSSING	FO	S2ES-DO-130
	7.02	15	190	0.07	CR 22 (WOLFPEN RUN RD) / STREAM CROSSING	FO	S2ES-DO-131
	7.09	10	210	0.05	CR 22 (WOLFPEN RUN RD) / STREAM CROSSING	FO	
	7.10	15	150	0.05	CR 22 (WOLFPEN RUN RD) / STREAM CROSSING	FO/OP	
	7.19	25	890	0.51	SIDE SLOPE	FO/OP	
	7.32	10	295	0.07	SIDE SLOPE	OP/FO	
	7.33	15	200	0.07	SIDE SLOPE	FO/OP	
	7.42	25	755	0.43	SIDE SLOPE	FO	
	7.73	25	2445	1.4	SIDE SLOPE	FO	
	8.05	15	290	0.1	STREAM / CR 24 (CAMP MISTAKE RD) CROSSING	FO/OP	S1ES-DO-121
	8.05	10	295	0.07	STREAM / CR 24 (CAMP MISTAKE RD) CROSSING	FO	S1ES-DO-121
	8.13	10	300	0.07	STREAM / CR 24 (CAMP MISTAKE RD) CROSSING	FO	S1ES-DO-121
	8.13	15	300	0.1	STREAM / CR 24 (CAMP MISTAKE RD) CROSSING	FO	S1ES-DO-121
	8.30	25	990	0.57	CNX GAS PIPELINE / SIDE SLOPE	FO	



**TABLE 1A-3**  
**Additional Temporary Workspace Requirements**

Segment	Approx. MP	Dimensions (feet)		Acres	Reason for ATWS	Land Use <sup>1</sup>	Within 50 feet of Wetland or Waterbody <sup>2</sup>
		Width	Length				
Sherwood Lateral	8.54	10	75	0.02	STREAM CROSSING	FO	
	8.55	15	280	0.1	STREAM / UNKNOWN FOREIGN PIPELINE CROSSING	FO	
	8.59	10	55	0.01	STREAM / UNKNOWN FOREIGN PIPELINE CROSSING	FO	S3ES-DO-103
	8.65	10	285	0.07	STREAM / UNKNOWN FOREIGN PIPELINE CROSSING	FO/OP	
	8.66	15	60	0.02	STREAM CROSSING	OP	
	8.74	25	725	0.42	SIDE SLOPE	FO	
	8.85	10	420	0.1	UNION CARBIDE PIPELINE CROSSING / SIDE SLOPE	FO	
	8.86	15	475	0.16	UNION CARBIDE PIPELINE CROSSING / SIDE SLOPE	FO	
	9.04	25	850	0.49	SIDE SLOPE	FO	
	9.12	25	940	0.54	SIDE SLOPE	FO	
	9.23	10	180	0.04	EQUITRANS PIPELINE CROSSING	FO	
	9.25	15	380	0.13	STREAM / EQUITRANS PIPELINE CROSSING	FO	
	9.35	10	300	0.07	STREAM CROSSING	FO	
	9.50	15	780	0.27	SIDE SLOPE / STREAM / EQUITRANS PIPELINES CROSSING	FO	
	9.55	10	760	0.17	SIDE SLOPE / STREAM / EQUITRANS PIPELINES CROSSING	FO	
	9.64	25	380	0.22	EQUITRANS PIPELINES CROSSING	FO	
	9.73	15	665	0.23	CR 60/2 (SANDY CREEK RD) / EQT PIPELINE / STREAM CROSSING	FO	
	9.75	10	515	0.12	CR 60/2 (SANDY CREEK RD) / EQT PIPELINE / STREAM CROSSING	FO/OP	S3ES-TY-115
	9.88	15	400	0.14	STREAMS / EQT PIPELINE CROSSING	FO/OP	
	9.89	10	465	0.11	STREAMS / EQT PIPELINE CROSSING	OP/FO	
	9.98	15	235	0.08	STREAMS / EQT PIPELINE CROSSING	FO	S3ES-TY-121
	9.98	10	250	0.06	STREAMS / EQT PIPELINE CROSSING	FO/OP	
	10.07	25	440	0.25	STREAM CROSSING / SIDE SLOPE	FO	S3ES-TY-123
	10.14	10	310	0.07	SIDE SLOPE	FO/OP	
	10.14	15	310	0.11	SIDE SLOPE	FO/OP	
	10.25	15	185	0.06	CONSOL ENERGY PIPELINE / STREAM CROSSING	FO	
	10.32	15	70	0.02	STREAM CROSSING	FO	
	10.35	10	100	0.02	STREAM CROSSING	FO	
	10.39	25	100	0.06	STREAM / WETLAND CROSSING	OP/FO	
	10.44	25	105	0.06	STREAM / WETLAND CROSSING	FO	
	10.65	25	905	0.52	STREAMS CROSSING / SIDE SLOPE	FO/OP	
	10.83	25	580	0.33	STREAM CROSSING / SIDE SLOPE	FO	

**TABLE 1A-3**  
**Additional Temporary Workspace Requirements**

Segment	Approx. MP	Dimensions (feet)		Acres	Reason for ATWS	Land Use <sup>1</sup>	Within 50 feet of Wetland or Waterbody <sup>2</sup>
		Width	Length				
Sherwood Lateral	10.92	10	335	0.08	CR 58 (JEFFERSON RUN RD) CROSSING / SIDE SLOPE	FO	
	10.92	15	355	0.12	CR 58 (JEFFERSON RUN RD) CROSSING / SIDE SLOPE	FO	
	10.98	15	195	0.07	CR 58 (JEFFERSON RUN RD) / STREAM CROSSING	OP/FO	
	10.99	10	265	0.06	CR 58 (JEFFERSON RUN RD) / STREAM CROSSING	OP	
	11.03	25	440	0.25	SIDE SLOPE	FO	
	11.11	15	80	0.03	STREAM CROSSING	FO	
	11.11	10	90	0.02	STREAM CROSSING	FO	
	11.18	15	335	0.12	STREAM / EQUITRANS PIPELINE CROSSING	FO	
	11.18	10	325	0.07	STREAM / EQUITRANS PIPELINE CROSSING	FO	
	11.28	25	705	0.4	SIDE SLOPE	FO	
	11.41	25	400	0.23	SIDE SLOPE	FO/OP	
	11.52	15	290	0.1	CONSOL ENERGY PIPELINE CROSSING	FO	
	11.52	10	215	0.05	CONSOL ENERGY PIPELINE CROSSING	FO	
	11.67	25	1225	0.7	SIDE SLOPE	FO	
	11.82	15	200	0.07	PRIVATE ROAD CROSSING	FO/OP	
	11.82	10	210	0.05	PRIVATE ROAD CROSSING	FO/OP	
	11.86	25	300	0.17	SIDE SLOPE	FO	
	12.02	15	100	0.03	STREAM CROSSING	FO	
	12.02	10	100	0.02	STREAM CROSSING	FO	
	12.09	15	100	0.03	STREAM CROSSING	FO	
	12.25	25	610	0.35	SIDE SLOPE	FO	
	12.33	15	115	0.04	CONSOL ENERGY PIPELINE CROSSING	FO	
	12.33	10	100	0.02	CONSOL ENERGY PIPELINE CROSSING	FO	
	12.35	25	145	0.08	CONSOL ENERGY PIPELINE CROSSING	FO/OP	
	12.49	25	455	0.26	SIDE SLOPE	FO	
	12.55	15	180	0.06	CONSOL ENERGY PIPELINE CROSSING	FO	
	12.55	10	200	0.05	CONSOL ENERGY PIPELINE CROSSING	FO	
	12.60	25	350	0.2	SIDE SLOPE	FO/OP	
	12.75	25	612	0.35	SIDE SLOPE	FO	
	12.87	40	230	0.21	PRIVATE ROAD / CONSOL ENERGY PIPELINE CROSSING	FO/OP	
	12.88	10	245	0.06	PRIVATE ROAD / CONSOL ENERGY PIPELINE CROSSING	FO/OP	
	12.97	50	300	0.34	PRIVATE ROAD & MIDDLE ISLAND CREEK HDD	FO/OP	S4ES-TY-244

**TABLE 1A-3**  
**Additional Temporary Workspace Requirements**

Segment	Approx. MP	Dimensions (feet)		Acres	Reason for ATWS	Land Use <sup>1</sup>	Within 50 feet of Wetland or Waterbody <sup>2</sup>
		Width	Length				
Sherwood Lateral	12.97	50	300	0.34	PRIVATE ROAD & MIDDLE ISLAND CREEK HDD	FO/OP	S4ES-TY-244
	13.36	50	300	0.34	PRIVATE ROAD & MIDDLE ISLAND CREEK HDD	OP/AG	
	13.36	25	300	0.17	PRIVATE ROAD & MIDDLE ISLAND CREEK HDD	OP/AG	
	13.58	15	290	0.1	ST HWY 18 CROSSING	AG	
	13.60	10	305	0.07	ST HWY 18 CROSSING	AG/OP	
	13.63	25	45	0.03	ST HWY 18 / STREAM / WETLAND CROSSING	OP/AG	
	13.73	10	590	0.14	WETLAND / STREAM / PRIVATE ROAD CROSSING	FO/OP	
	13.79	15	1160	0.4	WETLAND / STREAM / PRIVATE ROAD CROSSING	FO/OP	
	13.85	10	340	0.08	STREAM CROSSING	FO/OP	
	13.91	15	100	0.03	STREAM CROSSING	FO	
	13.95	10	100	0.02	STREAM CROSSING	OP/FO	
	14.06	15	100	0.03	CR 18/8 (PURGATORY RUN RD) / STREAM CROSSING	FO	
	14.07	10	100	0.02	CR 18/8 (PURGATORY RUN RD) / STREAM CROSSING	FO	S4ES-TY-114
	14.12	15	100	0.03	CR 18/8 (PURGATORY RUN RD) / STREAM CROSSING	FO	
	14.13	10	100	0.02	CR 18/8 (PURGATORY RUN RD) / STREAM CROSSING	FO	
	14.22	25	560	0.32	SIDE SLOPE	FO	
	14.47	10	220	0.05	UNKNOWN FOREIGN PIPELINE CROSSING	OP/FO	
	14.47	15	250	0.09	UNKNOWN FOREIGN PIPELINE CROSSING	FO	
	14.71	25	2260	1.3	SIDE SLOPE / CONSOL ENERGY PIPELINES CROSSING	FO	
	15.08	25	1300	0.75	SIDE SLOPE	FO	
	15.21	15	200	0.07	UNKNOWN FOREIGN PIPELINE CROSSING	FO	
	15.21	10	200	0.05	UNKNOWN FOREIGN PIPELINE CROSSING	OP/FO	
	15.41	25	1935	1.11	SIDE SLOPE / EUREKA HUNTER PIPELINE CROSSING	FO/OP	
	15.67	10	875	0.2	SIDE SLOPE / CONSOL ENERGY / EUREKA HUNTER PIPELINES CROSSING	FO/OP	
	15.67	15	935	0.32	SIDE SLOPE / CONSOL ENERGY / EUREKA HUNTER PIPELINES CROSSING	FO	
	15.82	10	565	0.13	SIDE SLOPE / STREAM CROSSING	FO	
	15.83	15	380	0.13	SIDE SLOPE / STREAM CROSSING	FO	
	15.98	15	315	0.11	DOMINION PIPELINE CROSSING	FO	
	15.98	10	270	0.06	DOMINION PIPELINE CROSSING	FO	
	16.07	15	280	0.1	CR 30/2 (DAVIS RUN RD) / UNKNOWN FOREIGN PIPELINE CROSSING	FO	
	16.08	10	285	0.07	CR 30/2 (DAVIS RUN RD) / UNKNOWN FOREIGN PIPELINE CROSSING	FO	

**TABLE 1A-3**  
**Additional Temporary Workspace Requirements**

Segment	Approx. MP	Dimensions (feet)		Acres	Reason for ATWS	Land Use <sup>1</sup>	Within 50 feet of Wetland or Waterbody <sup>2</sup>
		Width	Length				
Sherwood Lateral	16.16	10	95	0.02	STREAM CROSSING	OP/FO	
	16.16	15	105	0.04	STREAM CROSSING	OP/FO	
	16.23	15	450	0.15	STREAM CROSSING / SIDE SLOPE	FO/OP	
	16.23	10	425	0.1	STREAM CROSSING / SIDE SLOPE	OP/FO	
	16.28	25	80	0.05	STREAM CROSSING	OP	
	16.42	25	830	0.48	STREAM CROSSING / SIDE SLOPE	OP/FO	
	16.57	15	75	0.03	CR 30/1 (LAUGH RUN RD) CROSSING	FO	S7H-TY-265
	16.58	10	155	0.04	CR 30/1 (LAUGH RUN RD) CROSSING	OP/FO	
	16.70	25	100	0.06	SIDE SLOPE	FO	
	17.48	25	4705	2.7	SIDE SLOPE / TEXAS KEYSTONE PIPELINE CROSSING	FO/OP	
	18.04	25	1080	0.62	SIDE SLOPE / TEXAS KEYSTONE PIPELINE CROSSING	FO/OP	
	18.26	10	95	0.02	SANCHO CREEK / TEXAS KEYSTONE PIPELINE CROSSING	FO	
	18.27	15	100	0.03	SANCHO CREEK / TEXAS KEYSTONE PIPELINE CROSSING	FO/OP	
	18.37	10	425	0.1	CR 7 (MIDDLE BOURNE WICK RD) CROSSING	FO/OP	
	18.37	15	420	0.14	CR 7 (MIDDLE BOURNE WICK RD) CROSSING	FO/OP	
	18.47	15	190	0.07	STREAM CROSSING	FO	
	18.47	10	205	0.05	STREAM CROSSING	FO/OP	
	18.53	15	205	0.07	STREAM CROSSING	FO	
	18.53	10	165	0.04	STREAM CROSSING	FO	
	18.67	25	1040	0.6	SIDE SLOPE	FO	S4H-TY-284
	18.76	15	20	0.01	SANCHO CREEK CROSSING	FO	
	18.77	10	130	0.03	SANCHO CREEK CROSSING	FO	
	18.98	25	345	0.2	SANCHO CREEK CROSSING	FO	
	19.04	10	180	0.04	SANCHO CREEK CROSSING	AG	
	19.45	10	115	0.03	CR 7/10 (SANCHO CREEK RD) CROSSING	OP	
	19.78	25	3680	2.11	SIDE SLOPE	FO/OP	
	20.33	25	1025	0.59	SIDE SLOPE	FO	
	20.41	15	175	0.06	UNKNOWN FOREIGN PIPELINE CROSSING	FO	
	20.42	10	160	0.04	UNKNOWN FOREIGN PIPELINE CROSSING	FO	
	20.51	25	1085	0.62	SIDE SLOPE / STREAM CROSSING	FO	
	20.68	25	460	0.26	SIDE SLOPE / STREAM CROSSING	FO	
	20.74	15	185	0.06	EUREKA HUNTER PIPELINE CROSSING	FO/OP	

**TABLE 1A-3**  
**Additional Temporary Workspace Requirements**

Segment	Approx. MP	Dimensions (feet)		Acres	Reason for ATWS	Land Use <sup>1</sup>	Within 50 feet of Wetland or Waterbody <sup>2</sup>
		Width	Length				
Sherwood Lateral	20.74	10	195	0.04	EUREKA HUNTER PIPELINE CROSSING	FO/OP	
	20.84	10	100	0.02	STREAM CROSSING	FO	
	20.84	15	100	0.03	STREAM CROSSING	FO	
	20.94	10	195	0.04	STREAM CROSSING	FO	
	20.94	15	170	0.06	STREAM CROSSING	FO	
	21.00	25	565	0.32	SIDE SLOPE	FO	
	21.13	25	100	0.06	STREAM CROSSING	FO	
	21.18	15	100	0.03	STREAM CROSSING	FO	
	21.19	10	100	0.02	STREAM CROSSING	FO	
	21.38	25	1730	0.99	SIDE SLOPE	FO	
	21.81	25	1215	0.7	SIDE SLOPE	FO	
	21.90	15	100	0.03	PRIVATE ROAD CROSSING	FO	
	21.90	10	125	0.03	PRIVATE ROAD CROSSING	AG	
	21.96	10	90	0.02	WETLAND CROSSING	AG	
	22.14	25	290	0.17	SIDE SLOPE	FO/AG	
	22.18	10	100	0.02	STREAM CROSSING	FO	
	22.18	15	100	0.03	STREAM CROSSING	FO	
	22.27	25	300	0.17	STREAM / CR 10/1 (MARTIN HILL RD) CROSSING	FO	S2ES-TY-115
	22.95	10	95	0.02	STREAM CROSSING	FO	
	22.96	15	100	0.03	STREAM CROSSING	FO	
	23.02	15	100	0.03	STREAM CROSSING	FO	
	23.02	10	100	0.02	STREAM CROSSING	FO	
	23.19	15	95	0.03	STREAM CROSSING	FO	
	23.21	10	100	0.02	STREAM CROSSING	FO	
	23.45	15	130	0.04	SIDE SLOPE	FO	
	23.46	10	100	0.02	SIDE SLOPE	FO	
	23.52	25	525	0.3	SIDE SLOPE	FO	
	23.57	15	100	0.03	STREAM CROSSING	FO	
	23.57	10	100	0.02	STREAM CROSSING	FO	
	23.62	10	100	0.02	STREAM CROSSING	FO/AG	
	23.62	15	95	0.03	STREAM CROSSING	FO/OP	
	23.72	25	285	0.16	MIDDLE ISLAND CREEK HDD	OP/AG	S4H-TY-288

**TABLE 1A-3**  
**Additional Temporary Workspace Requirements**

Segment	Approx. MP	Dimensions (feet)		Acres	Reason for ATWS	Land Use <sup>1</sup>	Within 50 feet of Wetland or Waterbody <sup>2</sup>
		Width	Length				
Sherwood Lateral	23.73	50	310	0.36	MIDDLE ISLAND CREEK HDD	OP/AG	S4H-TY-288
	24.30	50	300	0.34	MIDDLE ISLAND CREEK HDD	FO	S7H-TY-270
	24.31	25	300	0.17	MIDDLE ISLAND CREEK HDD	FO	S7H-TY-270
	25.02	15	355	0.12	STREAMS CROSSING	FO	
	25.02	10	390	0.09	STREAMS CROSSING	FO	
	25.11	10	100	0.02	STREAMS CROSSING	FO	
	25.13	15	100	0.03	STREAMS CROSSING	FO	
	25.22	10	75	0.02	STREAM CROSSING	FO	
	25.22	15	75	0.03	STREAM CROSSING	FO	
	25.27	10	200	0.05	STREAMS CROSSING	FO	
	25.27	15	205	0.07	STREAMS CROSSING	FO	
	25.32	10	100	0.02	STREAM CROSSING	FO	
	25.33	15	220	0.08	STREAM CROSSING	FO	
	25.37	25	845	0.48	SIDE SLOPE	FO	
	25.66	25	865	0.5	SIDE SLOPE	FO	
	25.84	25	810	0.46	SIDE SLOPE	FO	
	26.00	25	325	0.19	SIDE SLOPE	FO	
	26.15	10	100	0.02	STREAM CROSSING	FO	
	26.16	15	100	0.03	STREAM CROSSING	FO	
	26.21	10	185	0.04	STREAMS CROSSING	OP	
	26.73	25	2300	1.32	SIDE SLOPE	FO	S5ES-TY-127
	26.94	10	100	0.02	HOPE GAS PIPELINE / WETLAND / STREAM CROSSING	FO	
	26.94	15	120	0.04	HOPE GAS PIPELINE / WETLAND / STREAM CROSSING	FO	
	26.98	10	170	0.04	WETLAND / STREAM / ST HWY 18 (TYLER HWY) CROSSING	OP	
	26.99	15	130	0.04	ST HWY 18 (TYLER HWY) CROSSING	OP/FO	
	27.59	25	1620	0.93	SIDE SLOPE	FO	
	27.75	15	100	0.03	NATURAL DRAINAGE CROSSING	FO	
	27.76	10	165	0.04	NATURAL DRAINAGE CROSSING	FO	
	27.80	15	190	0.07	NATURAL DRAINAGE CROSSING	FO/OP	
	27.81	10	150	0.03	NATURAL DRAINAGE CROSSING	OP/FO	
	28.02	25	1595	0.92	SIDE SLOPE / UNKNOWN FOREIGN PIPELINE CROSSING	FO	
	28.48	25	300	0.17	TOPSOIL SEGREGATION	FO	

**TABLE 1A-3**  
**Additional Temporary Workspace Requirements**

Segment	Approx. MP	Dimensions (feet)		Acres	Reason for ATWS	Land Use <sup>1</sup>	Within 50 feet of Wetland or Waterbody <sup>2</sup>
		Width	Length				
Sherwood Lateral	28.57	10	245	0.06	CR 1/2 (PORTER HILL DR) CROSSING	OP/AG/FO	
	28.64	25	125	0.07	TOPSOIL SEGREGATION	FO	
	28.72	15	105	0.04	STREAM / UNKNOWN FOREIGN PIPELINE CROSSING	FO	
	28.72	10	100	0.02	STREAM / UNKNOWN FOREIGN PIPELINE CROSSING	OP/FO	
	28.77	15	105	0.04	STREAM CROSSING	FO	
	28.77	10	85	0.02	STREAM CROSSING	FO	
	28.82	25	495	0.28	SIDE SLOPE	FO	
	28.88	15	215	0.07	UNKNOWN FOREIGN PIPELINES CROSSING	FO/OP	
	28.88	10	215	0.05	UNKNOWN FOREIGN PIPELINES CROSSING	FO/OP	
	29.02	25	1075	0.62	SIDE SLOPE	FO	
	29.24	10	100	0.02	STREAMS CROSSING	FO	
	29.25	15	65	0.02	STREAMS CROSSING	FO	
	29.31	15	90	0.03	STREAM CROSSING	FO	
	29.33	10	85	0.02	STREAM CROSSING	FO	
	29.45	25	140	0.08	SIDE SLOPE	FO	
	29.52	10	100	0.02	CR 1/3 (STARKEY RIDGE RD) / WATERLINE CROSSING	FO/OP	
	29.52	15	100	0.03	CR 1/3 (STARKEY RIDGE RD) / WATERLINE CROSSING	FO	
	29.58	15	100	0.03	STREAM CROSSING	FO	
	29.58	10	100	0.02	STREAM CROSSING	FO	
	29.62	15	90	0.03	STREAM CROSSING	FO	
	29.62	10	100	0.02	STREAM CROSSING	FO	
	29.86	25	1225	0.7	SIDE SLOPE	FO	
	29.98	15	95	0.03	WETLAND / STREAM CROSSING	FO	
	29.98	10	100	0.02	WETLAND / STREAM CROSSING	FO	
	30.03	15	100	0.03	WETLAND / STREAM CROSSING	FO	
	30.03	10	100	0.02	WETLAND / STREAM CROSSING	FO	
	30.33	25	950	0.55	SIDE SLOPE	FO	
	30.53	10	100	0.02	STREAM CROSSING	FO	
	30.54	15	100	0.03	STREAM CROSSING	FO	
	30.69	15	1095	0.38	SIDE SLOPE / CR 1 (BUCK RUN RD) CROSSING	FO/OP	
	30.70	10	1215	0.28	SIDE SLOPE / CR 1 (BUCK RUN RD) CROSSING	FO/OP	
	30.89	15	300	0.1	STREAMS / UNKNOWN FOREIGN PIPELINE CROSSING	FO/OP	

**TABLE 1A-3**  
**Additional Temporary Workspace Requirements**

Segment	Approx. MP	Dimensions (feet)		Acres	Reason for ATWS	Land Use <sup>1</sup>	Within 50 feet of Wetland or Waterbody <sup>2</sup>
		Width	Length				
Sherwood Lateral	30.89	10	250	0.06	STREAMS / UNKNOWN FOREIGN PIPELINE CROSSING	FO	S7H-TY-322
	31.08	25	570	0.33	SIDE SLOPE	FO	
	31.28	10	100	0.02	STREAM CROSSING	FO/OP	
	31.29	15	80	0.03	STREAM CROSSING	FO	
	31.34	10	275	0.06	CR 1/6 (SLIDER RUN RD) CROSSING	FO	
	31.35	15	205	0.07	CR 1/6 (SLIDER RUN RD) CROSSING	FO	
	31.55	25	1680	0.96	SIDE SLOPE	FO	
	31.73	15	420	0.14	UNKNOWN FOREIGN PIPELINE / FOREIGN PLASTIC UTILITY CROSSING	FO/OP	
	31.74	10	505	0.12	UNKNOWN FOREIGN PIPELINE / FOREIGN PLASTIC UTILITY CROSSING	FO/OP	
	31.94	25	1775	1.02	SIDE SLOPE	FO	
	32.17	10	300	0.07	CR 1/4 (GABLE RD) CROSSING / SIDE SLOPE	FO/OP	
	32.17	15	300	0.1	CR 1/4 (GABLE RD) CROSSING / SIDE SLOPE	FO/OP	
	32.37	15	1025	0.35	SIDE SLOPE	FO/OP	
	32.38	10	1165	0.27	SIDE SLOPE	FO/AG	
	32.57	10	535	0.12	SIDE SLOPE	FO	
	32.58	15	635	0.22	SIDE SLOPE	FO	
	33.34	25	4380	2.51	SIDE SLOPE	FO/OP/AG	
	33.66	10	680	0.16	DUTCH RUN RD CROSSING / SIDE SLOPE	FO/OP	
	33.66	15	680	0.23	DUTCH RUN RD CROSSING / SIDE SLOPE	FO/OP	
	33.77	50	320	0.37	OHIO RIVER HDD	FO/AG	
	33.77	25	430	0.25	OHIO RIVER HDD	FO/AG	
	35.03	50	300	0.34	OHIO RIVER HDD	FO/OP	
	35.51	25	5440	3.12	OHIO RIVER HDD / SIDE SLOPE	FO/OP	
	35.41	10	250	0.06	SIDE SLOPE	FO/OP	
	35.58	25	1570	0.9	SIDE SLOPE	FO	
	35.74	10	220	0.05	TWP 496 CROSSING	FO/OP	
	35.74	15	220	0.08	TWP 496 CROSSING	FO/OP	
	35.97	25	2130	1.22	SIDE SLOPE	FO/OP	
	36.22	25	340	0.2	SIDE SLOPE	FO	
	36.26	10	80	0.02	STREAM CROSSING	FO	
	36.26	15	100	0.03	STREAM CROSSING	FO	



**TABLE 1A-3**  
**Additional Temporary Workspace Requirements**

Segment	Approx. MP	Dimensions (feet)		Acres	Reason for ATWS	Land Use <sup>1</sup>	Within 50 feet of Wetland or Waterbody <sup>2</sup>
		Width	Length				
Sherwood Lateral	36.35	15	100	0.03	STREAM CROSSING	FO/OP	
	36.35	10	100	0.02	STREAM CROSSING	FO	
	36.50	15	140	0.05	EUREKA HUNTER PIPELINE CROSSING	FO	
	36.50	10	140	0.03	EUREKA HUNTER PIPELINE CROSSING	FO/OP	
	36.56	15	230	0.08	STREAM CROSSING	FO	
	36.56	10	230	0.05	STREAM CROSSING	FO	
	36.62	10	100	0.02	STREAM CROSSING	FO	
	36.62	15	100	0.03	STREAM CROSSING	FO	
	36.83	25	1955	1.12	SIDE SLOPE	FO/AG	
	37.11	15	365	0.13	STREAM / CR 10 (BENWOOD RD) CROSSING	FO	
	37.12	10	400	0.09	STREAM / CR 10 (BENWOOD RD) CROSSING	FO/AG	
	37.19	10	100	0.02	STREAM CROSSING	FO	
	37.19	15	100	0.03	STREAM CROSSING	FO	
	37.23	25	365	0.21	SIDE SLOPE	FO	
	37.27	25	135	0.08	EUREKA HUNTER PIPELINE CROSSING	FO	
	37.33	15	395	0.14	WETLAND / EUREKA HUNTER PIPELINE CROSSING	FO	
	37.33	10	340	0.08	WETLAND / EUREKA HUNTER PIPELINE CROSSING	FO	
	37.40	25	90	0.05	STREAM / WETLANDS CROSSING	OP/FO	
	37.43	15	180	0.06	WETLAND / TWP 490 (BREY HOLLOW ROAD) CROSSING	OP/FO	W4H-MO-276
	37.43	10	180	0.04	WETLAND / TWP 490 (BREY HOLLOW ROAD) CROSSING	OP/FO	W4H-MO-276
	37.45	15	230	0.08	TWP 490 (BREY HOLLOW ROAD) / EUREKA HUNTER PIPELINE CROSSING	FO	
	37.47	10	285	0.07	TWP 490 (BREY HOLLOW ROAD) / EUREKA HUNTER PIPELINE CROSSING	FO/OP	
	37.61	25	1585	0.91	SIDE SLOPE	FO	
	37.82	15	445	0.15	SIDE SLOPE / TWP 493 (MT. OLIVE RD) CROSSING	FO	
	37.82	10	475	0.11	SIDE SLOPE / TWP 493 (MT. OLIVE RD) CROSSING	FO	
	37.90	15	120	0.04	TWP 493 (MT. OLIVE RD) / STREAM CROSSING	FO	
	37.90	10	100	0.02	TWP 493 (MT. OLIVE RD) / STREAM CROSSING	FO	
	38.00	25	825	0.47	SIDE SLOPE	FO	
	38.10	10	60	0.01	STREAMS CROSSING	FO	
	38.10	15	125	0.04	STREAMS CROSSING	FO	
	38.17	10	195	0.04	STREAMS CROSSING	FO	

**TABLE 1A-3**  
**Additional Temporary Workspace Requirements**

Segment	Approx. MP	Dimensions (feet)		Acres	Reason for ATWS	Land Use <sup>1</sup>	Within 50 feet of Wetland or Waterbody <sup>2</sup>
		Width	Length				
Sherwood Lateral	38.18	15	90	0.03	STREAMS CROSSING	FO	
	38.32	25	1230	0.71	SIDE SLOPE	FO/AG	
	38.56	25	800	0.46	SIDE SLOPE	FO	
	38.63	15	75	0.03	STREAM CROSSING	FO	
	38.63	10	100	0.02	STREAM CROSSING	FO	
	38.68	10	100	0.02	STREAM CROSSING	FO	
	38.69	15	65	0.02	STREAM CROSSING	FO	
	38.93	25	1665	0.96	SIDE SLOPE	FO	
	39.13	10	135	0.03	TWP 480 (LENGACHER ROAD) / STREAM CROSSING	FO	
	39.13	15	150	0.05	TWP 480 (LENGACHER ROAD) / STREAM CROSSING	FO	
	39.17	10	100	0.02	TWP 480 (LENGACHER ROAD) / STREAM CROSSING	FO	
	39.91	25	5260	3.02	SIDE SLOPE	FO	
	40.30	15	60	0.02	STREAM CROSSING	FO	
	40.31	10	60	0.01	STREAM CROSSING	FO	
	40.35	15	100	0.03	STREAM CROSSING	FO	
	40.35	10	100	0.02	STREAM CROSSING	FO/AG	
	40.51	25	545	0.31	SIDE SLOPE	FO	
	40.84	25	2170	1.25	SIDE SLOPE	FO/OP	
	41.03	15	95	0.03	UNKNOWN FOREIGN PIPELINE CROSSING	FO	
	41.04	10	220	0.05	UNKNOWN FOREIGN PIPELINE CROSSING	FO	
	41.14	10	300	0.07	TWP 476 (PEA VINE RIDGE RD) / BENWOOD RD CROSSING	FO	
	41.14	15	260	0.09	TWP 476 (PEA VINE RIDGE RD) / BENWOOD RD CROSSING	FO	
	41.25	10	170	0.04	STREAM CROSSING	FO	
	41.25	15	170	0.06	STREAM CROSSING	FO	
	41.37	25	1080	0.62	SIDE SLOPE	FO	
	41.53	25	140	0.08	SIDE SLOPE	FO	
	41.75	25	745	0.43	SIDE SLOPE	FO/OP	
	41.92	25	135	0.08	SIDE SLOPE	FO	
	42.05	15	100	0.03	STREAM / WETLAND CROSSING	FO	
	42.05	10	100	0.02	STREAM / WETLAND CROSSING	FO	
	42.13	10	260	0.06	WETLAND / CR 10A (GRIFFITH ROAD) CROSSING	FO/OP	
	42.13	15	260	0.09	WETLAND / CR 10A (GRIFFITH ROAD) CROSSING	FO/OP	

**TABLE 1A-3**  
**Additional Temporary Workspace Requirements**

Segment	Approx. MP	Dimensions (feet)		Acres	Reason for ATWS	Land Use <sup>1</sup>	Within 50 feet of Wetland or Waterbody <sup>2</sup>
		Width	Length				
Sherwood Lateral	42.27	25	1220	0.7	SIDE SLOPE	FO	
	42.48	25	630	0.36	SIDE SLOPE	FO/OP	
	42.64	25	680	0.39	SIDE SLOPE	FO	
	42.79	15	100	0.03	STREAM CROSSING	FO	
	42.82	10	100	0.02	STREAM CROSSING	FO	
	42.85	15	100	0.03	STREAM CROSSING	FO	
	42.86	10	95	0.02	STREAM CROSSING	FO	
	43.26	25	3475	1.99	SIDE SLOPE	FO	
	43.65	15	100	0.03	STREAM CROSSING	FO	
	43.66	10	100	0.02	STREAM CROSSING	FO	
	43.72	15	180	0.06	STREAM CROSSING	FO	
	43.73	10	155	0.04	STREAM CROSSING	FO	
	44.24	10	320	0.07	DOMINION PIPELINE CROSSING	AG/FO	
	44.24	15	250	0.09	DOMINION PIPELINE CROSSING	FO	
	44.32	10	100	0.02	NATURAL DRAINAGE CROSSING	FO	S2ES-MO-361
	44.32	15	100	0.03	NATURAL DRAINAGE CROSSING	FO	
	44.39	15	370	0.13	TWP 358 (CRANESNEST CREEK RD) CROSSING	FO/AG	S2ES-MO-360
	44.39	10	365	0.08	TWP 358 (CRANESNEST CREEK RD) CROSSING	FO/AG	
	44.50	25	585	0.34	SIDE SLOPE	FO	
	45.52	25	595	0.34	SIDE SLOPE		
	45.66	10	100	0.02	STREAM CROSSING	FO	
	45.66	15	100	0.03	STREAM CROSSING	FO	
	45.70	10	95	0.02	STREAM CROSSING	FO	
	45.71	15	100	0.03	STREAM CROSSING	FO	
	45.82	25	530	0.3	SIDE SLOPE	FO	
	45.88	15	100	0.03	WETLAND CROSSING	FO	
	45.88	10	100	0.02	WETLAND CROSSING	FO	
	45.94	15	100	0.03	TWP 8 / STREAM / WETLAND CROSSING	FO	
	45.95	10	100	0.02	TWP 8 / STREAM / WETLAND CROSSING	FO	
	46.13	25	730	0.42	SIDE SLOPE	FO	
	46.47	25	1130	0.65	SIDE SLOPE	FO/AG	
	46.82	15	225	0.08	STREAM / WETLAND / ST HWY 78 CROSSING	FO/OP	

**TABLE 1A-3**  
**Additional Temporary Workspace Requirements**

Segment	Approx. MP	Dimensions (feet)		Acres	Reason for ATWS	Land Use <sup>1</sup>	Within 50 feet of Wetland or Waterbody <sup>2</sup>
		Width	Length				
Sherwood Lateral	46.82	10	195	0.04	STREAM / WETLAND / ST HWY 78 CROSSING	FO/OP	
	46.93	25	695	0.4	SIDE SLOPE	FO	
	47.00	15	90	0.03	STREAM CROSSING	FO	
	47.00	15	140	0.05	STREAM CROSSING	FO	
	47.05	15	70	0.02	STREAM CROSSING	FO	
	47.05	15	100	0.03	STREAM CROSSING	FO	
	47.08	25	215	0.12	STREAM CROSSING	FO	
	47.17	25	600	0.34	TOPSOIL SEGREGATION	FO	
	47.44	10	225	0.05	WETLAND / STREAM CROSSING	FO	
	47.44	15	225	0.08	WETLAND / STREAM CROSSING	FO	
	47.49	25	75	0.04	CR 6 (ALTITUDE MILLER HILL RD) CROSSING	OP	W4H-MO-271 & S4H-MO-270
	47.52	10	215	0.05	CR 6 (ALTITUDE MILLER HILL RD) CROSSING	FO	
	47.52	15	205	0.07	CR 6 (ALTITUDE MILLER HILL RD) CROSSING	FO	
	47.79	25	910	0.52	SIDE SLOPE	FO	
	48.39	10	100	0.02	CR 6 (ALTITUDE MILLER HILL RD) / STREAM CROSSING	FO	
	48.40	15	100	0.03	CR 6 (ALTITUDE MILLER HILL RD) / STREAM CROSSING	FO	
	48.43	10	100	0.02	CR 6 (ALTITUDE MILLER HILL RD) / STREAM CROSSING	FO	
	48.47	10	105	0.02	STREAM CROSSING	FO	
	48.52	25	280	0.16	SIDE SLOPE	FO	
	48.55	10	75	0.02	SUNFISH CREEK CROSSING	FO	
	48.56	15	110	0.04	SUNFISH CREEK CROSSING	FO	
	48.69	10	275	0.06	CR 29 (SUNFISH CREEK RD) CROSSING	FO/OP	
	48.69	15	275	0.09	CR 29 (SUNFISH CREEK RD) CROSSING	FO/OP	
	48.98	15	220	0.08	BLUE RACER MIDSTREAM PIPELINE CROSSING	FO	
	49.00	10	220	0.05	BLUE RACER MIDSTREAM PIPELINE CROSSING	FO	
	49.60	10	130	0.03	WETLAND CROSSING	OP	
	49.98	10	345	0.08	STREAMS CROSSING	FO/OP	
	49.99	15	365	0.13	STREAMS CROSSING	FO/OP	
	50.05	10	100	0.02	STREAM CROSSING	FO	
	50.07	15	95	0.03	STREAM CROSSING	FO	
	50.21	15	200	0.07	BLUE RACER MIDSTREAM PIPELINE CROSSING	FO	
	50.23	10	200	0.05	BLUE RACER MIDSTREAM PIPELINE CROSSING	FO	

**TABLE 1A-3**  
**Additional Temporary Workspace Requirements**

Segment	Approx. MP	Dimensions (feet)		Acres	Reason for ATWS	Land Use <sup>1</sup>	Within 50 feet of Wetland or Waterbody <sup>2</sup>
		Width	Length				
Sherwood Lateral	51.00	15	105	0.04	PINEY FORK STREAM CROSSING	FO	
	51.00	10	100	0.02	PINEY FORK STREAM CROSSING	FO	
	51.09	10	370	0.08	PINEY FORK STREAM CROSSING / SIDE SLOPE	FO	
	51.09	15	435	0.15	PINEY FORK STREAM CROSSING / SIDE SLOPE	FO	
	51.66	15	250	0.09	UNKNOWN FOREIGN PIPELINES CROSSING	FO/OP	
	51.67	10	250	0.06	UNKNOWN FOREIGN PIPELINES CROSSING	FO/OP	
	51.95	25	665	0.38	SIDE SLOPE	FO	S9H-MO-136
	52.03	15	105	0.04	STREAM CROSSING	FO	
	52.04	10	100	0.02	STREAM CROSSING	FO	
	52.09	10	100	0.02	STREAM CROSSING	FO	
	52.11	15	100	0.03	STREAM CROSSING	FO	
CGT Lateral	0.07	25	455	0.26	SIDE SLOPE	FO/OP	
	0.14	10	200	0.05	ECP PIPELINE CROSSING	FO	
	0.14	15	195	0.07	ECP PIPELINE CROSSING	FO	
	0.16	25	105	0.06	DOMINION / ECP PIPELINE CROSSING	FO	
	0.19	10	200	0.05	DOMINION PIPELINE CROSSING	FO	
	0.19	15	200	0.07	DOMINION PIPELINE CROSSING	FO	
	0.25	25	380	0.22	DOMINION PIPELINE CROSSING / SIDE SLOPE	FO	
	0.54	25	2165	1.24	SIDE SLOPE	FO	
	0.78	10	405	0.09	ANTERO RESOURCES/ SUMMIT MIDSTREAM/ MARK WEST LIBERTY PIPELINE CROSSING	FO	
	0.79	15	305	0.11	ANTERO RESOURCES/ SUMMIT MIDSTREAM/ MARK WEST LIBERTY PIPELINE CROSSING	FO	
	0.89	25	1125	0.65	ANTERO RESOURCES/ SUMMIT MIDSTREAM/ MARK WEST LIBERTY PIPELINE CROSSING / SIDE SLOPE	FO/OP	
	1.03	10	120	0.03	ANTERO RESOURCES/ SUMMIT MIDSTREAM/ MARK WEST LIBERTY PIPELINE CROSSING	FO/OP	
	1.03	15	120	0.04	ANTERO RESOURCES/ SUMMIT MIDSTREAM/ MARK WEST LIBERTY PIPELINE CROSSING	OP	
	1.09	25	660	0.38	SIDE SLOPE	OP/FO	
	1.17	15	230	0.08	ANTERO RESOURCES/ SUMMIT MIDSTREAM/ MARK WEST LIBERTY PIPELINE CROSSING	OP	

**TABLE 1A-3**  
**Additional Temporary Workspace Requirements**

Segment	Approx. MP	Dimensions (feet)		Acres	Reason for ATWS	Land Use <sup>1</sup>	Within 50 feet of Wetland or Waterbody <sup>2</sup>
		Width	Length				
CGT Lateral	1.18	10	220	0.05	ANTERO RESOURCES/ SUMMIT MIDSTREAM/ MARK WEST LIBERTY PIPELINE CROSSING	OP	
	1.67	25	4455	2.56	DOMINION PIPELINE CROSSING / SIDE SLOPE	FO	
	2.06	10	240	0.06	SUMMIT MIDSTREAM/ MARK WEST LIBERTY/ FOREIGN PIPELINE CROSSING	FO	
	2.06	15	200	0.07	SUMMIT MIDSTREAM/ MARK WEST LIBERTY/ FOREIGN PIPELINE CROSSING	FO	
	2.37	25	3240	1.86	SIDE SLOPE	FO/OP	
	2.69	10	155	0.04	SUMMIT MIDSTREAM/ MARK WEST LIBERTY PIPELINE CROSSING	FO	
	2.70	15	130	0.04	SUMMIT MIDSTREAM/ MARK WEST LIBERTY PIPELINE CROSSING	FO	
	2.86	25	1795	1.03	SIDE SLOPE	FO/OP	
	3.33	25	3280	1.88	SIDE SLOPE	FO/AG	S9H-DO-104
	3.93	25	1845	1.06	SIDE SLOPE	FO/OP	
	4.13	25	260	0.15	SUMMIT MIDSTREAM PIPELINE CROSSING	FO	
	4.17	10	100	0.02	SIDE SLOPE	FO	
	4.17	15	100	0.03	SUMMIT MIDSTREAM PIPELINE CROSSING	FO	
	4.34	25	1635	0.94	SIDE SLOPE	FO/OP	
	4.51	10	245	0.06	SUMMIT MIDSTREAM PIPELINE CROSSING	FO/AG	
	4.51	15	220	0.08	SUMMIT MIDSTREAM PIPELINE CROSSING	AG	
	4.62	25	995	0.57	SIDE SLOPE / STREAM CROSSING	FO/OP	
	4.88	25	2080	1.19	STREAM CROSSING / SIDE SLOPE	FO/OP	
	5.19	25	655	0.38	SIDE SLOPE / EXCO RESOURCES PIPELINE CROSSING	FO	
	5.28	15	100	0.03	ENERGY TRANSFER PIPELINE CROSSING	FO/OP	
	5.28	10	100	0.02	ENERGY TRANSFER PIPELINE CROSSING	FO/OP	
	5.35	25	595	0.34	SIDE SLOPE / EXCO RESOURCES PIPELINE CROSSING	FO/OP	
	5.44	10	245	0.06	US HWY 3 / ENERGY TRANSFER PIPELINE CROSSING	OP	
	5.45	15	410	0.14	US HWY 3 / ENERGY TRANSFER PIPELINE CROSSING	OP	
	5.49	10	105	0.02	ENERGY TRANSFER PIPELINE CROSSING	OP	
	5.55	25	800	0.46	CR 3 / 7 (FLINT RD) / ENERGY TRANSFER PIPELINE CROSSING / SIDE SLOPE	FO/OP	
	5.65	10	80	0.02	CR 3 / 7 (FLINT RD) / ENERGY TRANSFER PIPELINE CROSSING	OP	
	5.65	15	80	0.03	CR 3 / 7 (FLINT RD) / ENERGY TRANSFER PIPELINE CROSSING	OP	

**TABLE 1A-3**  
**Additional Temporary Workspace Requirements**

Segment	Approx. MP	Dimensions (feet)		Acres	Reason for ATWS	Land Use <sup>1</sup>	Within 50 feet of Wetland or Waterbody <sup>2</sup>
		Width	Length				
Seneca Lateral	0.05	10	165	0.04	ANTERO RESOURCES PIPELINE CROSSING	FO/OP	
	0.06	15	115	0.04	ANTERO RESOURCES PIPELINE CROSSING	FO/OP	
	0.13	25	245	0.14	SIDE SLOPE	FO/OP	
	0.21	15	115	0.04	CR 5A (GLADY RD) CROSSING	OP/FO	
	0.21	10	120	0.03	CR 5A (GLADY RD) CROSSING	OP/FO	
	0.28	15	100	0.03	STREAM CROSSING	FO/AG	
	0.30	10	100	0.02	STREAM CROSSING	FO/AG	
	0.30	15	105	0.04	STREAM CROSSING	FO	
	0.36	15	160	0.06	STREAM CROSSING	FO	
	0.46	15	565	0.19	STREAM CROSSING / SIDE SLOPE	FO/OP	
	0.57	15	500	0.17	ST HWY 513 (BATESVILLE RD) CROSSING / SIDE SLOPE	FO/AG	
	0.68	25	290	0.17	TEXAS EASTERN TRANSMISSION PIPELINE / ST HWY 513 (BATESVILLE RD) CROSSING	OP	W7H-NO-424
	1.13	15	1015	0.35	STREAM CROSSING / SIDE SLOPE	FO	
	1.32	15	70	0.02	BLUERACER PIPELINE / STREAM CROSSING	FO	
	1.38	25	620	0.36	BLUERACER PIPELINE / STREAM CROSSING / SIDE SLOPE	FO	
	1.80	25	2920	1.68	SIDE SLOPE	FO/OP	
	2.10	25	80	0.05	STATE HWY 78 CROSSING	OP	
	2.16	25	165	0.09	STATE HWY 78 CROSSING	OP/FO	
	2.59	25	2430	1.39	SIDE SLOPE / STREAM CROSSING	FO	
	2.84	10	100	0.02	STREAM CROSSING	OP/FO	
	2.86	15	100	0.03	STREAM CROSSING	FO	
	3.01	25	377	0.22	SIDE SLOPE	FO/OP	
	3.23	25	105	0.06	STREAM CROSSING	FO	S2TB-MO-108
	3.30	25	385	0.22	STREAM CROSSING / SIDE SLOPE	FO	
	3.45	25	430	0.25	STREAM CROSSING / SIDE SLOPE	FO	
	3.53	25	390	0.22	STREAM CROSSING / SIDE SLOPE	FO/OP	
	3.63	25	125	0.07	STATE HWY 78 CROSSING	OP/FO	S1TB-MO-130
	3.69	25	100	0.06	STATE HWY 78 CROSSING	OP/FO	S1TB-MO-130
	3.74	25	225	0.13	SIDE SLOPE	OP/FO	
	4.02	25	1465	0.84	STREAM CROSSING / SIDE SLOPE	FO	
	4.27	25	465	0.27	STREAM CROSSING / SIDE SLOPE	FO	
	4.60	25	720	0.41	STREAM CROSSING / SIDE SLOPE	FO	

**TABLE 1A-3**  
**Additional Temporary Workspace Requirements**

Segment	Approx. MP	Dimensions (feet)		Acres	Reason for ATWS	Land Use <sup>1</sup>	Within 50 feet of Wetland or Waterbody <sup>2</sup>
		Width	Length				
Seneca Lateral	4.75	25	100	0.06	STREAM CROSSING	FO	
	4.81	25	210	0.12	TWP RD 63 CROSSING	FO/AG	
	4.95	25	865	0.5	SIDE SLOPE	FO/OP	
	5.16	25	680	0.39	SIDE SLOPE / STREAM / WETLAND CROSSING	OP/FO/AG	
	5.28	25	130	0.07	TWP 66 CROSSING	OP	
	5.37	25	200	0.11	SIDE SLOPE	FO	
	5.43	25	290	0.17	SIDE SLOPE	FO/AG	S1H-MO-160
	5.52	25	660	0.38	SIDE SLOPE	FO	S1H-MO-160
	5.84	25	1305	0.75	SIDE SLOPE / STREAM / TWP 68 CROSSING	FO/AG	S4H-MO-203
	6.10	25	460	0.26	SIDE SLOPE	FO	
	6.28	25	935	0.54	SIDE SLOPE / STREAM CROSSING	FO	
	6.43	25	190	0.11	STREAM CROSSING / UNKNOWN FOREIGN PIPELINE CROSSING	FO	
	6.56	25	245	0.14	STREAM CROSSING	FO	
	6.62	25	60	0.03	STREAM CROSSING	FO	
	6.72	25	315	0.18	TWP RD 55 CROSSING	FO/OP	S3ES-MO-265
	6.96	50	220	0.25	WETLANDS / TEXAS EASTERN TRANSMISSION PIPELINE CROSSING	OP	
	7.07	25	655	0.38	WETLANDS / CR 2351 / CR 18 / STREAM CROSSING	FO/OP	
	7.17	25	150	0.09	TWP RD 153 (FANTASY LANE) CROSSING	FO/OP	
	7.30	25	500	0.29	TEXAS EASTERN TRANSMISSION PIPELINE / STREAM / WETLAND CROSSING	OP	
	7.38	25	100	0.06	STREAM / WETLAND CROSSING	FO	
	7.72	25	1890	1.08	SIDE SLOPE	FO/OP	
	9.07	25	585	0.34	STREAM / WETLAND CROSSING	FO	W2TB-MO-120
	9.17	25	155	0.09	WETLAND CROSSING	FO	
	9.32	25	660	0.38	ST HWY 145 / UNKNOWN FOREIGN PIPELINE CROSSING / SIDE SLOPE	FO/OP	
	9.43	25	155	0.09	STREAM CROSSING	FO/OP	
	9.54	25	45	0.03	STREAM CROSSING	FO	
	9.72	25	150	0.09	STREAM CROSSING	FO	
	9.81	25	250	0.14	STREAM CROSSING	FO/OP	
	9.95	25	280	0.16	STREAM CROSSING	OP/FO	
	10.50	25	210	0.12	SIDE SLOPE	FO	
	10.65	25	100	0.06	STREAM CROSSING	FO	



**TABLE 1A-3**  
**Additional Temporary Workspace Requirements**

Segment	Approx. MP	Dimensions (feet)		Acres	Reason for ATWS	Land Use <sup>1</sup>	Within 50 feet of Wetland or Waterbody <sup>2</sup>
		Width	Length				
Seneca Lateral	10.72	25	100	0.06	STREAM CROSSING	FO	
	10.79	25	205	0.12	STREAMS CROSSING	FO	S4H-MO-205
	10.89	25	355	0.2	STREAMS CROSSING	FO	S4H-MO-208
	10.98	25	100	0.06	STREAM CROSSING	FO	
	11.16	25	110	0.06	CR 2 (MILTONSBURG-CALAIS RD) CROSSING	OP	
	12.48	15	360	0.12	STREAM / TWP RD 81 CROSSING / SIDE SLOPE	FO/OP	
	12.49	10	150	0.03	TWP RD 81 CROSSING	FO/OP	
	12.52	25	135	0.08	STREAM CROSSING	FO	S2ES-MO-274
	12.67	25	825	0.47	SIDE SLOPE / STREAMS CROSSING	FO	S2ES-MO-274
	12.76	25	90	0.05	STREAM CROSSING	FO	S3TB-MO-105
	12.91	25	200	0.11	STREAM CROSSING	FO	
	13.07	25	840	0.48	STREAM CROSSING / SIDE SLOPE	FO	
	13.25	25	340	0.2	SIDE SLOPE / CR 27 (MOORE RIDGE RD) CROSSING	FO/OP	
	13.40	25	230	0.13	STREAM CROSSING	FO	
	13.47	25	100	0.06	STREAM CROSSING	FO	
	13.52	25	100	0.06	NATURAL DRAINAGE CROSSING	FO	
	13.72	25	555	0.32	STREAM CROSSING / SIDE SLOPE	FO	
	13.92	25	1040	0.6	STREAM CROSSING / SIDE SLOPE	FO	S2TB-MO-125
	14.10	25	295	0.17	STREAM CROSSING / SIDE SLOPE	FO	
	14.20	25	225	0.13	STREAM CROSSING	FO	S2TB-MO-124
	14.54	25	100	0.06	STREAM CROSSING	FO	
	14.71	25	100	0.06	STREAM CROSSING	FO	
	14.78	25	100	0.06	STREAM CROSSING	FO/AG	
	15.14	25	500	0.29	WETLAND / STREAM CROSSING	FO	
	15.27	25	505	0.29	STREAM CROSSING / SIDE SLOPE	FO	
	15.39	25	445	0.26	STREAM CROSSING / SIDE SLOPE	FO/AG	
	15.50	25	100	0.06	SIDE SLOPE	FO/AG	
	15.58	25	665	0.38	SIDE SLOPE	FO	S1TB-MO-147
	15.86	25	1005	0.58	SIDE SLOPE	FO	
	16.05	25	100	0.06	STREAM CROSSING	FO	
	16.13	25	245	0.14	CR 1 (KINGS HWY) / STREAM CROSSING	FO	
	16.28	25	730	0.42	SIDE SLOPE	FO	

**TABLE 1A-3**  
**Additional Temporary Workspace Requirements**

Segment	Approx. MP	Dimensions (feet)		Acres	Reason for ATWS	Land Use <sup>1</sup>	Within 50 feet of Wetland or Waterbody <sup>2</sup>
		Width	Length				
Seneca Lateral	16.42	25	350	0.2	STREAMS / WETLAND CROSSING	FO/OP	S2TB-MO-132
	17.02	25	990	0.57	SIDE SLOPE / STREAM CROSSING	FO	S1TB-MO-164
	17.19	25	230	0.13	SIDE SLOPE / STREAM CROSSING	FO	S1TB-MO-163
	17.76	25	430	0.25	STREAM / WETLAND CROSSING	FO/OP	
	18.78	25	650	0.37	CR 31 (MELLOTT RIDGE RD) / STREAM CROSSING / SIDE SLOPE	FO/OP	S1TB-MO-170
	18.95	25	850	0.49	STREAM / SIDE SLOPE	FO/OP	
	19.01	25	150	0.09	TEXAS EASTERN TRANSMISSION PIPELINE CROSSING	FO	
	19.04	50	160	0.18	TEXAS EASTERN TRANSMISSION PIPELINE CROSSING	FO/OP	
	19.13	25	1000	0.57	SIDE SLOPE / STREAM CROSSING	FO	
	19.45	25	1950	1.12	SIDE SLOPE / STREAM CROSSING	FO/OP	
	19.70	25	315	0.18	STREAM / TEXAS EASTERN TRANSMISSION PIPELINE CROSSING	FO/OP	
	19.88	25	1830	1.05	SIDE SLOPE / TEXAS EASTERN TRANSMISSION PIPELINE CROSSING	OP/FO	
	19.88	25	150	0.09	TEXAS EASTERN TRANSMISSION PIPELINE CROSSING	FO/OP	
	20.16	25	575	0.33	SI+F631:F638DE SLOPE / PRIVATE ROAD / STREAM CROSSING	FO/OP	
	20.36	25	300	0.17	STREAM / CR 38 (HEADLEY RIDGE RD) CROSSING	FO	
	20.56	25	1485	0.85	SIDE SLOPE / STREAM CROSSING	FO	S2TB-MO-142
	20.78	25	315	0.18	SIDE SLOPE / STREAM CROSSING	FO	
	20.91	25	425	0.24	TEXAS EASTERN TRANSMISSION PIPELINE CROSSING	FO/OP	
	20.94	25	220	0.13	TEXAS EASTERN TRANSMISSION PIPELINE CROSSING	FO/OP	
	21.03	25	605	0.35	SIDE SLOPE / STREAM CROSSING	FO	
	21.21	25	1105	0.63	SIDE SLOPE / STREAM CROSSING	FO	
	21.39	25	200	0.11	STREAM CROSSING	FO	
	21.54	25	645	0.37	SIDE SLOPE	FO	
	21.68	25	335	0.19	TWP RD 185 (BROCK RIDGE RD) CROSSING / SIDE SLOPE	FO/OP	
	21.91	25	715	0.41	TWP RD 2192 CROSSING / SIDE SLOPE	FO/OP	
	22.10	25	190	0.11	STREAM CROSSING	FO/OP	S7H-MO-446
	22.31	25	630	0.36	SIDE SLOPE / STREAM CROSSING	FO	
	22.47	25	560	0.32	SIDE SLOPE / STREAM CROSSING	FO	
	22.62	25	600	0.34	SIDE SLOPE	FO/OP	
	22.96	25	120	0.07	CR 64 (CAIN RIDGE RD) CROSSING	FO	
	22.99	25	185	0.11	CR 64 (CAIN RIDGE RD) CROSSING	FO/OP	
	23.21	10	140	0.03	STREAM CROSSING	OP	

**TABLE 1A-3**  
**Additional Temporary Workspace Requirements**

Segment	Approx. MP	Dimensions (feet)		Acres	Reason for ATWS	Land Use <sup>1</sup>	Within 50 feet of Wetland or Waterbody <sup>2</sup>
		Width	Length				
Seneca Lateral	23.21	15	180	0.06	STREAM CROSSING	OP/AG	
	23.68	25	785	0.45	SIDE SLOPE / STREAM CROSSING	FO	
	23.83	25	290	0.17	SIDE SLOPE / STREAM CROSSING	FO	
	24.04	25	100	0.06	STREAM / WETLAND CROSSING	FO	
	24.11	25	115	0.07	STREAM / WETLAND CROSSING	FO	
	24.19	25	210	0.12	STREAM CROSSING	FO	
	24.95	25	200	0.11	STREAM CROSSING	OP/FO	
	25.45	25	285	0.16	STREAM CROSSING	FO	
Berne Lateral	0.28	25	1240	0.71	SIDE SLOPE	FO	
	0.58	25	2050	1.18	SIDE SLOPE	FO/OP	
	1.01	25	1920	1.1	TWP 234 CROSSING / SIDE SLOPE	FO	
	1.29	25	255	0.15	ST HWY 78 CROSSING	FO/OP	S9H-MO-119
	1.39	25	370	0.21	ST HWY 78 / STREAM CROSSING	AG/FO/OP	S3ES-MO-238
	1.47	25	175	0.1	STREAM / WETLAND CROSSING	FO	
	1.61	25	720	0.41	STREAM CROSSING / SIDE SLOPE	FO	
	1.73	25	395	0.23	BLUE RACER MIDSTREAM PIPELINE CROSSING / SIDE SLOPE	FO	S3ES-MO-230
	1.82	25	705	0.4	STREAM CROSSING / SIDE SLOPE	FO/OP	
	1.92	25	285	0.16	STREAM CROSSING	FO	S3ES-MO-224
	1.99	25	105	0.06	STREAM CROSSING	FO	S3ES-MO-223
	2.05	25	685	0.39	TWP 203 (CEMETERY RD) / BISHOP RUN WATERBODY CROSSING / SIDE SLOPE	FO/OP	S7H-NO-434
	2.29	25	1275	0.73	BISHOP RUN WATERBODY CROSSING / SIDE SLOPE	FO	
	2.56*	15	1015	0.35	SIDE SLOPE	FO	
	3.01*	25	300	0.17	TEXAS EASTERN PIPELINES CROSSING	OP	W7H-NO-424
	3.12*	20	495	0.23	SR 513 CROSSING / TOPSOIL SEGREGATION	FO/AG	
	3.23*	15	580	0.2	STREAM CROSSING / SIDE SLOPE	FO/OP	
	3.33*	15	160	0.06	STREAM CROSSING	FO	
	3.40*	15	205	0.07	STREAM CROSSING	FO/AG	
	3.48*	15	115	0.04	GLADY RD CROSSING	OP/FO	
	3.55*	25	245	0.14	SIDE SLOPE	FO/OP	
	3.63*	15	115	0.04	ANTERO RESOURCES PIPELINE CROSSING	FO/OP	
	3.64*	10	165	0.04	ANTERO RESOURCES PIPELINE CROSSING	FO/OP	

**TABLE 1A-3**  
**Additional Temporary Workspace Requirements**

Segment	Approx. MP	Dimensions (feet)		Acres	Reason for ATWS	Land Use <sup>1</sup>	Within 50 feet of Wetland or Waterbody <sup>2</sup>
		Width	Length				
Clarington Lateral	0.16	25	100	0.06	GERMAN RIDGE RD CROSSING	OP/AG	
	0.24	25	380	0.22	STREAM CROSSING	FO	
	0.87	25	640	0.37	SIDE SLOPE	FO	
	1.46	25	1240	0.71	SIDE SLOPE	FO	
	1.63	15	405	0.14	STREAM CROSSING	FO/OP	
	1.64	10	300	0.07	STREAM CROSSING	FO	
	1.72	10	100	0.02	STREAM CROSSING	FO	
	1.72	15	100	0.03	STREAM CROSSING	FO	
	1.96	25	3055	1.75	SIDE SLOPE / STREAM CROSSING	FO/OP	
	2.58	25	2480	1.42	SIDE SLOPE / STREAM CROSSING	FO/OP	
	2.99	25	770	0.44	SIDE SLOPE	FO/OP	
	3.15	25	322	0.18	SIDE SLOPE	FO	
	3.45	15	160	0.06	CR 5 (CLOVER RIDGE ROAD) CROSSING	FO/OP	
	3.45	10	160	0.04	CR 5 (CLOVER RIDGE ROAD) CROSSING	FO/OP	
	3.51	10	100	0.02	STREAM CROSSING	FO	
	3.58	15	100	0.03	STREAM CROSSING	FO	
	3.64	15	145	0.05	STREAM CROSSING	FO	
	3.65	10	100	0.02	STREAM CROSSING	FO	
	3.68	25	640	0.37	WETLAND CROSSING / SIDE SLOPE	FO	
	3.84	25	330	0.19	WETLAND CROSSING / SIDE SLOPE	FO	S9H-BE-142
	3.93	25	440	0.25	STREAM CROSSING	FO	S9H-BE-142
	4.01	10	305	0.07	PEA VINE CREEK / CR 106 CROSSING	FO	
	4.02	15	290	0.1	PEA VINE CREEK / CR 106 CROSSING	FO	
	4.11	10	395	0.09	PEA VINE CREEK / CR 106 CROSSING	FO	
	4.11	15	350	0.12	PEA VINE CREEK / CR 106 CROSSING	FO	
	4.36	25	2760	1.58	SIDE SLOPE	FO	
	4.71	10	210	0.05	UNKNOWN RD CROSSING	FO	
	4.71	15	210	0.07	UNKNOWN RD CROSSING	FO	
	4.76	25	260	0.15	PRIVATE ROAD CROSSING	FO	
	4.79	15	100	0.03	STREAM CROSSING	FO	
	4.80	10	130	0.03	STREAM CROSSING	FO	S1ES-BE-215
	4.88	15	470	0.16	GILKESON RD CROSSING	FO	

**TABLE 1A-3**  
**Additional Temporary Workspace Requirements**

Segment	Approx. MP	Dimensions (feet)		Acres	Reason for ATWS	Land Use <sup>1</sup>	Within 50 feet of Wetland or Waterbody <sup>2</sup>
		Width	Length				
Clarrington Lateral	4.89	10	375	0.09	GILKESON RD CROSSING	FO	
	5.38	25	4380	2.51	SIDE SLOPE	FO	
	5.98	50	300	0.34	ST HWY 148 (E. CAPTINA-STEINERSVILLE RD) HDD	FO	
	5.98	25	300	0.17	ST HWY 148 (E. CAPTINA-STEINERSVILLE RD) HDD	FO	
	6.34	50	245	0.28	ST HWY 148 (E. CAPTINA-STEINERSVILLE RD) HDD	FO/OP	
	6.35	25	300	0.17	ST HWY 148 (E. CAPTINA-STEINERSVILLE RD) HDD	FO/OP	
	6.37	55	1980	2.5	ST HWY 148 (E. CAPTINA-STEINERSVILLE RD) HDD	OP/FO/AG	
	7.06	25	2410	1.38	SIDE SLOPE	FO	S4H-BE-356
	7.40	25	905	0.52	SIDE SLOPE	FO	
	7.60	25	140	0.08	STREAM CROSSING / SIDE SLOPE	FO	S3ES-BE-179 & S3ES-BE-176
	7.66	25	345	0.2	STREAM / WETLAND CROSSING / SIDE SLOPE	FO	
	7.73	25	80	0.05	WETLAND / STREAM CROSSING	FO	
	7.77	25	225	0.13	STREAM CROSSING / SIDE SLOPE	FO	
	8.10	25	600	0.34	SIDE SLOPE	FO/OP	
	8.24	25	180	0.1	STREAM CROSSING	FO	S2ES-BE-205
	8.38	25	505	0.29	STREAM CROSSING	FO/OP	
	8.51	25	120	0.07	STREAM CROSSING	FO	
	8.66	25	195	0.11	PRIVATE ROAD CROSSING / SIDE SLOPE	FO/OP	
	8.69	10	100	0.02	STREAM CROSSING	FO	
	8.69	15	100	0.03	STREAM CROSSING	FO	
	8.71	25	90	0.05	STREAM CROSSING / SIDE SLOPE	FO	
	8.75	10	155	0.04	STREAM CROSSING	FO	
	8.75	15	100	0.03	STREAM CROSSING	FO	
	8.81	25	465	0.27	SIDE SLOPE	FO	
	8.86	25	105	0.06	STREAM CROSSING	FO	
	8.87	10	100	0.02	STREAM CROSSING	FO	
	8.92	15	130	0.04	STREAM CROSSING	FO	
	8.92	10	100	0.02	STREAM CROSSING	FO	
	8.96	25	320	0.18	SIDE SLOPE	FO	
	9.20	15	155	0.05	COLUMBIA GAS PIPELINE CROSSING	FO/AG	
	9.51	25	300	0.17	STREAM CROSSING / SIDE SLOPE	FO/OP	
	9.64	25	345	0.2	CR 237 CROSSING	FO/AG	

**TABLE 1A-3**  
**Additional Temporary Workspace Requirements**

Segment	Approx. MP	Dimensions (feet)		Acres	Reason for ATWS	Land Use <sup>1</sup>	Within 50 feet of Wetland or Waterbody <sup>2</sup>
		Width	Length				
Clarrington Lateral	9.76	15	300	0.1	STREAM CROSSING	FO/OP	S4H-BE-361
	9.76	10	300	0.07	STREAM CROSSING	FO/OP	
	9.84	15	200	0.07	STREAM CROSSING	FO	
	9.84	10	195	0.04	STREAM CROSSING	FO	
	9.99	10	200	0.05	STREAM CROSSING	FO	
	9.99	15	200	0.07	STREAM CROSSING	FO	
	10.06	10	175	0.04	STREAM CROSSING	FO/AG	
	10.06	15	135	0.05	STREAM CROSSING	FO/AG	
	10.96	10	100	0.02	STREAM CROSSING	FO/OP	
	10.96	15	100	0.03	STREAM CROSSING	FO	
	11.04	15	175	0.06	SCATTERDAY RD CROSSING	FO	
	11.04	15	235	0.08	SCATTERDAY RD CROSSING	FO	
	11.30	25	230	0.13	SIDE SLOPE	FO	
	11.53	25	275	0.16	WILLIAMS CREEK CROSSING	FO	
	11.69	25	325	0.19	OK RD CROSSING	FO/OP	
	12.07	25	2870	1.65	SIDE SLOPE	FO/AG	
	13.14	25	395	0.23	DOMINION PIPELINE CROSSING	FO/AG	
	13.19	25	185	0.11	DOMINION PIPELINE CROSSING	AG	
	13.30	25	518	0.3	OK RD CROSSING	FO	
	13.80	25	340	0.2	DOMINION PIPELINE CROSSING	FO/OP	
	13.86	25	260	0.15	DOMINION PIPELINE CROSSING	FO/OP	
	14.12	25	285	0.16	STREAM CROSSING	FO/OP	
	14.20	25	205	0.12	STREAM CROSSING	FO	
	14.35	25	350	0.2	STREAM CROSSING	FO/OP	
	15.00	25	3145	1.8	SIDE SLOPE	FO	
	15.30	25	345	0.2	EAST OHIO GAS PIPELINES CROSSING	OP	
	15.32	50	145	0.17	EAST OHIO GAS PIPELINES CROSSING	FO/OP	
	15.36	25	375	0.22	EAST OHIO GAS PIPELINES CROSSING	FO/OP	
	15.40	50	315	0.36	EAST OHIO GAS PIPELINES CROSSING	FO/OP	
	15.60	25	185	0.11	CREEK CROSSING	FO	S3ES-BE-171
	15.68	25	350	0.2	CREEK CROSSING	FO	
	15.87	25	395	0.23	US HWY 149 CROSSING	FO/OP	S3ES-BE-166

**TABLE 1A-3**  
**Additional Temporary Workspace Requirements**

Segment	Approx. MP	Dimensions (feet)		Acres	Reason for ATWS	Land Use <sup>1</sup>	Within 50 feet of Wetland or Waterbody <sup>2</sup>
		Width	Length				
Clarington Lateral	16.32	25	375	0.22	STREAM CROSSING	FO/OP	S7H-BE-490 & S7H-BE-491
	16.71	25	1025	0.59	SIDE SLOPE / EAST OHIO GAS / BLUE RACER PIPELINE CROSSING	FO/AG	S2ES-BE-349
	16.85	50	135	0.15	EAST OHIO GAS / BLUE RACER PIPELINE CROSSING	AG	
	16.87	25	205	0.12	EAST OHIO GAS / BLUE RACER PIPELINE CROSSING	AG	
	17.10	25	230	0.13	CR 82 CROSSING	AG/FO	
	17.27	25	485	0.28	SIDE SLOPE	FO	
	17.62	25	795	0.46	STREAM CROSSING / SIDE SLOPE	FO	S2ES-BE-338
	17.79	25	405	0.23	COLUMBIA GAS PIPELINE CROSSING	OP/FO	
	18.21	50	275	0.32	FALSE ROW - I-70 HDD CROSSING	OP	
	18.23	60	285	0.39	CROSSOVER	FO/OP	
	18.28	25	100	0.06	STREAM CROSSING	FO	
	18.44	50	300	0.34	INTERSTATE 70 HDD	AG/FO	
	18.45	25	130	0.07	INTERSTATE 70 HDD	FO/OP	
	18.92	75	300	0.52	INTERSTATE 70 HDD	AG	
	19.24	25	280	0.16	STREAM / WETLAND CROSSING	FO/OP	S7H-BE-395
	19.45	25	570	0.33	STREAM / WETLAND CROSSING	OP/FO	
	19.57	25	230	0.13	EAST OHIO GAS / BLUE RACER MIDSTREAM PIPELINE CROSSING	OP	
	19.61	25	275	0.16	EAST OHIO GAS / BLUE RACER MIDSTREAM PIPELINE CROSSING	OP	
	19.89	25	910	0.52	LLOYDS VILLE-BANNOCK RD CROSSING / SIDE SLOPE	OP/FO	
	20.11	25	395	0.23	SAFFELL RD CROSSING / SIDE SLOPE	FO	
	20.16	25	330	0.19	EAST OHIO GAS PIPELINES CROSSING	OP	
	20.33	25	870	0.5	EAST OHIO GAS PIPELINE CROSSING / SIDE SLOPE	FO	
	20.43	25	90	0.05	WETLAND CROSSING	FO	
	20.51	25	85	0.05	WETLAND CROSSING	FO	
	20.75	25	500	0.29	SIDE SLOPE	FO	
	20.92	25	555	0.32	CR 334 CROSSING / SIDE SLOPE	FO	W2ES-BE-333 & S2ES-BE-332 & S2ES-BE-331
	21.27	25	1080	0.62	OK RD CROSSING	FO/OP	
	21.77	25	155	0.09	REDUCED ROW AROUND STRUCTURE	AG	
	22.44	25	355	0.2	EAST OHIO GAS PIPELINE CROSSING	FO/AG	
	22.46	25	145	0.08	EAST OHIO GAS PIPELINE CROSSING	FO	
	22.50	25	230	0.13	EAST OHIO GAS PIPELINE CROSSING	AG/FO	

**TABLE 1A-3**  
**Additional Temporary Workspace Requirements**

Segment	Approx. MP	Dimensions (feet)		Acres	Reason for ATWS	Land Use <sup>1</sup>	Within 50 feet of Wetland or Waterbody <sup>2</sup>
		Width	Length				
Clarrington Lateral	22.66	25	675	0.39	CR 393 (GAS STATION SHIPPEY RD) / EAST OHIO GAS PIPELINE CROSSING / SIDE SLOPE	AG	
	23.63	10	115	0.03	CR 331 CROSSING	AG	
	25.11	15	270	0.09	BRAMMER ENGINEERING PIPELINE CROSSING	FO/OP	
	25.11	10	185	0.04	BRAMMER ENGINEERING PIPELINE CROSSING	FO/OP	
	25.54	25	235	0.13	STATE HIGHWAY 149 CROSSING	FO/OP	
	25.55	25	230	0.13	STATE HIGHWAY 149 CROSSING	FO/OP	
	27.58	25	185	0.11	CR 29 (CADIZ FLUSHING ROAD) CROSSING	FO	
	27.68	25	215	0.12	NATURAL DRAINAGE	FO	
	28.36	15	100	0.03	STATE HIGHWAY 519 CROSSING	FO/OP	
	28.38	10	100	0.02	STATE HIGHWAY 519 CROSSING	FO/OP	
	28.40	15	100	0.03	STATE HIGHWAY 519 CROSSING	FO/OP	
	28.41	10	100	0.02	STATE HIGHWAY 519 CROSSING	FO/OP	
	28.49	15	100	0.03	STREAM CROSSING	OP	
	28.49	10	100	0.02	STREAM CROSSING	OP	
	28.55	10	100	0.02	STREAM CROSSING	FO	
	28.55	10	100	0.02	STREAM CROSSING	FO	
	28.91	25	610	0.35	STREAM CROSSING / SIDE SLOPE	FO	
	29.31	25	175	0.1	CR 267 (TWP SLATER ROAD) CROSSING / CROSSOVER	AG/OP	
	29.80	25	470	0.27	CR 264 / WETLAND CROSSING	OP/AG/FO	
	30.10	25	220	0.13	CROSSOVER	OP	
	30.24	25	1410	0.81	PRIVATE ROAD / WETLANDS CROSSING / SIDE SLOPE	FO/OP	
	30.51	25	880	0.51	WETLANDS CROSSING / SIDE SLOPE	FO	
	30.66	25	200	0.11	SIDE SLOPE	FO	
	31.61	25	350	0.2	SIDE SLOPE	FO/OP	
	31.72	25	750	0.43	SIDE SLOPE	FO/OP	
	31.82	25	100	0.06	MARK WEST UTICA PIPELINE CROSSING	FO/OP	
	31.85	25	100	0.06	MARK WEST UTICA PIPELINE CROSSING	FO/OP	
	31.96	25	725	0.42	MARK WEST UTICA PIPELINE CROSSING / SIDE SLOPE	FO/OP	
	32.02	15	190	0.07	WETLAND / STREAM CROSSING	FO	W1ES-HA-198
	32.03	10	240	0.06	WETLAND / STREAM CROSSING	FO	
	0.18	25	285	0.16	STREAM / FOREIGN PIPELINE CROSSING	FO	
	0.24	10	430	0.1	STREAM / FOREIGN PIPELINE CROSSING	FO	



**TABLE 1A-3**  
**Additional Temporary Workspace Requirements**

Segment	Approx. MP	Dimensions (feet)		Acres	Reason for ATWS	Land Use <sup>1</sup>	Within 50 feet of Wetland or Waterbody <sup>2</sup>
		Width	Length				
Majorsville Lateral	0.24	15	450	0.15	STREAM / FOREIGN PIPELINE CROSSING	FO	
	0.40	25	1260	0.72	SIDE SLOPE / STREAM CROSSING	FO	
	0.57	25	365	0.21	SIDE SLOPE / STREAM CROSSING	FO	
	0.64	10	320	0.07	COLUMBIA GAS TRANSMISSION PIPELINE CROSSING / SIDE SLOPE	FO	
	0.64	15	275	0.09	COLUMBIA GAS TRANSMISSION PIPELINE CROSSING / SIDE SLOPE	FO	
	0.83	10	300	0.07	STREAM CROSSING	FO	
	0.83	15	300	0.1	STREAM CROSSING	FO	
	0.92	15	300	0.1	STREAM CROSSING	FO	
	0.92	10	300	0.07	STREAM CROSSING	FO	
	1.10	25	765	0.44	SIDE SLOPE	FO/OP	
	1.26	15	1240	0.43	WILLIAMS PIPELINE / STREAM CROSSING / SIDE SLOPE	FO/OP	
	1.27	10	1165	0.27	WILLIAMS PIPELINE / STREAM CROSSING / SIDE SLOPE	FO/OP	
	1.39	15	170	0.06	WATERBODY / WETLANDS CROSSING	FO	
	1.40	10	150	0.03	WATERBODY / WETLANDS CROSSING	FO	
	1.47	25	665	0.38	SIDE SLOPE	FO/OP	
	1.66	10	155	0.04	CONSOL ENERGY PIPELINE / PRIVATE ROAD CROSSING	FO	
	1.66	15	155	0.05	CONSOL ENERGY PIPELINE / PRIVATE ROAD CROSSING	FO	
	1.69	25	185	0.11	STREAM CROSSING / SIDE SLOPE	FO	S3ES-MA-144
	1.76	25	85	0.05	STREAM CROSSING / SIDE SLOPE	FO	
	1.92	25	2300	1.32	STREAM CROSSING / SIDE SLOPE	FO	S3ES-MA-147
	2.78	15	2340	0.81	WHEELING CREEK CROSSING / SIDE SLOPE	FO	
	2.80	10	2280	0.52	WHEELING CREEK CROSSING / SIDE SLOPE	FO	
	3.05	10	100	0.02	STREAM CROSSING	FO	
	3.06	15	100	0.03	STREAM CROSSING	FO	
	3.15	25	920	0.53	SIDE SLOPE	FO	
	3.24	10	100	0.02	STREAM CROSSING	FO	S1ES-MA-179 & S1ES-MA-177
	3.25	15	110	0.04	STREAM CROSSING	FO	S1ES-MA-179
	3.30	10	100	0.02	STREAM CROSSING	FO	
	3.31	15	100	0.03	STREAM CROSSING	FO	
	3.38	25	650	0.37	SIDE SLOPE	FO	
	3.45	15	100	0.03	STREAM CROSSING	FO	
	3.46	10	100	0.02	STREAM CROSSING	FO/AG	

**TABLE 1A-3**  
**Additional Temporary Workspace Requirements**

Segment	Approx. MP	Dimensions (feet)		Acres	Reason for ATWS	Land Use <sup>1</sup>	Within 50 feet of Wetland or Waterbody <sup>2</sup>
		Width	Length				
Majorsville Lateral	3.53	15	400	0.14	CR 46 (IRISH RIDGE ROAD) CROSSING	FO	S4H-MA-339
	3.53	10	345	0.08	CR 46 (IRISH RIDGE ROAD) CROSSING	FO	
	3.91	10	100	0.02	STREAM CROSSING	FO	
	3.94	15	100	0.03	STREAM CROSSING	FO	
	3.98	25	125	0.07	CR 7/3 (LOWER STULL ROAD) / STULL RUN CROSSING	FO/OP	S4H-MA-338 & S4H-MA-336
	4.10	15	935	0.32	SIDE SLOPE / STULL RUN CROSSING	FO	
	4.17	10	1540	0.35	SIDE SLOPE / STULL RUN CROSSING	FO/OP	
	4.34	25	210	0.12	PRIVATE ROAD CROSSING / SIDE SLOPE	FO	
	4.37	15	100	0.03	STREAM CROSSING	FO	
	4.38	10	225	0.05	STREAM CROSSING / SIDE SLOPE	FO	
	4.43	15	90	0.03	STREAM CROSSING	FO	
	4.44	10	65	0.01	STREAM CROSSING	FO/OP	S4H-MA-331
	4.59	25	745	0.43	SIDE SLOPE	FO	
	4.70	15	355	0.12	UNKNOWN FOREIGN PIPELINE / STREAM CROSSING	FO/OP	
	4.70	10	360	0.08	UNKNOWN FOREIGN PIPELINE / STREAM CROSSING	FO/OP	
	4.81	15	110	0.04	STREAM CROSSING	FO	
	4.81	10	100	0.02	STREAM CROSSING	FO	
	4.85	25	285	0.16	SIDE SLOPE	FO	
	5.20	10	100	0.02	STREAM CROSSING	FO	
	5.20	15	100	0.03	STREAM CROSSING	FO	
	5.27	15	200	0.07	STREAM CROSSING	FO	
	5.27	10	185	0.04	STREAM CROSSING	FO	
	5.33	25	450	0.26	SIDE SLOPE	FO/AG	
	5.62	15	150	0.05	STREAM / WETLAND CROSSING	FO	
	5.63	10	100	0.02	STREAM / WETLAND CROSSING	FO	
	5.69	10	100	0.02	STREAM / WETLAND CROSSING	FO	
	5.93	25	505	0.29	SIDE SLOPE	FO/AG	
	6.15	25	940	0.54	SIDE SLOPE	FO/AG	
	6.24	15	35	0.01	STREAM CROSSING	FO	
	6.25	10	150	0.03	STREAM CROSSING	FO	
	6.29	10	100	0.02	STREAM / WETLAND CROSSING	FO	
	6.47	25	495	0.28	SIDE SLOPE	FO	

**TABLE 1A-3**  
**Additional Temporary Workspace Requirements**

Segment	Approx. MP	Dimensions (feet)		Acres	Reason for ATWS	Land Use <sup>1</sup>	Within 50 feet of Wetland or Waterbody <sup>2</sup>
		Width	Length				
Majorsville Lateral	6.64	15	335	0.12	STREAM CROSSING / SIDE SLOPE	FO	
	6.64	10	335	0.08	STREAM CROSSING / SIDE SLOPE	FO	
	6.72	15	100	0.03	STREAM CROSSING	FO	
	6.72	10	100	0.02	STREAM CROSSING	FO	
	6.77	25	410	0.24	SIDE SLOPE	FO	
	7.18	25	765	0.44	SR 88 CROSSING / SIDE SLOPE	FO/OP	
	7.37	25	310	0.18	SIDE SLOPE / STREAM CROSSING	FO	
	7.45	15	155	0.05	STREAM CROSSING	FO	
	7.46	15	80	0.03	STREAM CROSSING	FO	
	7.70	25	2560	1.47	SIDE SLOPE	FO/OP	
	7.96	10	75	0.02	STREAM CROSSING	FO	
	7.99	15	185	0.06	STREAM CROSSING	FO	
	8.00	10	100	0.02	STREAM CROSSING	FO	
	8.07	25	605	0.35	SIDE SLOPE	FO	
	8.13	15	90	0.03	STREAM CROSSING	FO	
	8.14	10	100	0.02	STREAM CROSSING	FO	
	8.18	15	125	0.04	STREAM CROSSING	FO	
	8.18	10	100	0.02	STREAM CROSSING	FO	
	8.32	25	1460	0.84	SIDE SLOPE	FO	
	8.48	10	100	0.02	STREAM CROSSING	FO	
	8.52	25	125	0.07	STREAM / LITTLE GRAVE CREEK CROSSING	FO	
	8.54	15	100	0.03	STREAM / LITTLE GRAVE CREEK CROSSING	FO	
	8.59	10	150	0.03	STREAM / LITTLE GRAVE CREEK CROSSING	FO	
	8.59	15	100	0.03	STREAM / LITTLE GRAVE CREEK CROSSING	FO	
	8.62	25	190	0.11	SIDE SLOPE	FO/OP	
	8.76	25	100	0.06	SIDE SLOPE	FO/OP	
	8.78	10	100	0.02	STREAM CROSSING	FO	
	8.79	15	120	0.04	STREAM CROSSING	FO	
	8.96	25	185	0.11	SIDE SLOPE	FO	
	8.99	10	100	0.02	STREAM CROSSING	FO	
	9.05	10	100	0.02	STREAM CROSSING	FO	
	9.05	15	100	0.03	STREAM CROSSING	FO	

**TABLE 1A-3**  
**Additional Temporary Workspace Requirements**

Segment	Approx. MP	Dimensions (feet)		Acres	Reason for ATWS	Land Use <sup>1</sup>	Within 50 feet of Wetland or Waterbody <sup>2</sup>
		Width	Length				
Majorsville Lateral	9.11	25	265	0.15	SIDE SLOPE	FO	
	9.15	10	115	0.03	STREAM CROSSING	FO	
	9.15	15	220	0.08	STREAM CROSSING	FO	
	9.26	10	685	0.16	STREAM CROSSING / SIDE SLOPE	FO	S7H-MA-379
	9.26	15	725	0.25	STREAM CROSSING / SIDE SLOPE	FO	
	9.48	25	1600	0.92	SIDE SLOPE / STREAM / TWP 10 (LITTLE GRAVE CREEK RD) CROSSING	FO	
	9.77	10	775	0.18	SIDE SLOPE / STREAM / TWP 10 (LITTLE GRAVE CREEK RD) CROSSING	FO	
	9.77	15	725	0.25	SIDE SLOPE / STREAM / TWP 10 (LITTLE GRAVE CREEK RD) CROSSING	FO	
	10.00	25	945	0.54	SIDE SLOPE	FO/OP	
	10.18	25	320	0.18	SIDE SLOPE	FO/OP	
	10.23	10	70	0.02	STREAM CROSSING	FO	
	10.28	15	100	0.03	STREAM CROSSING	FO	
	10.28	10	95	0.02	STREAM CROSSING	FO	
	10.32	25	345	0.2	SIDE SLOPE	FO	
	10.36	10	100	0.02	STREAM CROSSING	FO	
	10.36	15	100	0.03	STREAM CROSSING	FO	
	10.42	10	100	0.02	STREAM CROSSING	FO	
	10.42	15	95	0.03	STREAM CROSSING	FO	
	10.50	25	120	0.07	STREAM CROSSING	FO/OP	
	10.56	10	135	0.03	STREAM CROSSING	FO/AG	
	10.75	25	125	0.07	SIDE SLOPE	FO/AG	
	10.83	15	125	0.04	SR 86 (GRANDVIEW RD) CROSSING	FO	
	10.84	10	185	0.04	SR 86 (GRANDVIEW RD) CROSSING	FO	
	10.87	15	230	0.08	SR 86 (GRANDVIEW RD) CROSSING	FO	
	10.88	10	135	0.03	SR 86 (GRANDVIEW RD) CROSSING	FO	
	10.90	25	50	0.03	SIDE SLOPE	AG	
	11.10	25	630	0.36	SIDE SLOPE	FO	
	11.18	10	180	0.04	COLUMBIA GAS TRANSMISSION PIPELINE CROSSING	FO	
	11.18	15	235	0.08	COLUMBIA GAS TRANSMISSION PIPELINE CROSSING	FO	
	11.21	25	65	0.04	STREAM CROSSING	OP/FO	

**TABLE 1A-3**  
**Additional Temporary Workspace Requirements**

Segment	Approx. MP	Dimensions (feet)		Acres	Reason for ATWS	Land Use <sup>1</sup>	Within 50 feet of Wetland or Waterbody <sup>2</sup>
		Width	Length				
Majorsville Lateral	11.26	10	100	0.02	STREAM CROSSING / SIDE SLOPE	FO	
	11.26	15	130	0.04	STREAM CROSSING / SIDE SLOPE	FO/OP	
	11.30	25	295	0.17	STREAM CROSSING / SIDE SLOPE	FO	
	11.36	25	60	0.03	STREAM CROSSING	FO	
	11.40	10	360	0.08	CR 8/1 (23RD ST) CROSSING	FO	
	11.40	15	310	0.11	CR 8/1 (23RD ST) CROSSING	FO/OP	
	11.50	10	145	0.03	STREAM CROSSING	FO	
	11.50	15	100	0.03	STREAM CROSSING	FO	
	11.53	25	160	0.09	STREAM CROSSING	FO	
	11.68	25	885	0.51	SIDE SLOPE	FO	
	11.77	25	115	0.07	SIDE SLOPE	FO	
	11.79	10	155	0.04	SR 2 / CSX RAILROAD CROSSING	FO	
	11.80	15	190	0.07	SR 2 / CSX RAILROAD CROSSING	FO	
	11.86	25	105	0.06	SR 2 / CSX RAILROAD CROSSING	OP	
	11.94	70	300	0.48	OHIO RIVER HDD	OP	
	11.94	55	300	0.38	OHIO RIVER HDD	OP/FO	
	12.43	55	300	0.38	OHIO RIVER HDD	OP/FO	
	12.43	70	300	0.48	OHIO RIVER HDD	OP/FO	
	12.47	25	210	0.12	SIDE SLOPE	FO	
	12.47	50	1325	1.52	FALSE ROW - OHIO RIVER HDD	FO/OP	
	12.58	25	945	0.54	SIDE SLOPE	FO/OP	
	12.67	10	90	0.02	STREAM CROSSING	FO	
	12.67	15	120	0.04	STREAM CROSSING	FO	
	12.71	10	100	0.02	STREAM CROSSING	FO	
	12.76	25	370	0.21	W 36TH ST / STREAM CROSSING	OP/FO	
	12.82	10	235	0.05	W 36TH ST CROSSING	FO	
	12.82	15	235	0.08	W 36TH ST CROSSING	OP/FO	
	12.91	25	830	0.48	SIDE SLOPE	FO	
	13.02	10	330	0.08	CR 46 (NEW CUT RD) CROSSING	FO/OP	
	13.03	15	275	0.09	CR 46 (NEW CUT RD) CROSSING	FO/OP	
	13.10	25	485	0.28	SIDE SLOPE / CR 46 (NEW CUT RD) CROSSING	FO	
	13.17	15	270	0.09	STREAM CROSSING	FO	

**TABLE 1A-3**  
**Additional Temporary Workspace Requirements**

Segment	Approx. MP	Dimensions (feet)		Acres	Reason for ATWS	Land Use <sup>1</sup>	Within 50 feet of Wetland or Waterbody <sup>2</sup>
		Width	Length				
Majorsville Lateral	13.19	10	435	0.1	STREAM CROSSING	FO	
	13.27	15	375	0.13	STREAM CROSSING	FO	
	13.28	10	205	0.05	STREAM CROSSING	FO	
	13.33	10	95	0.02	STREAM CROSSING	FO	
	13.58	25	2215	1.27	SIDE SLOPE	FO	
	14.10	10	195	0.04	PRIVATE ROAD CROSSING	FO	
	14.10	15	200	0.07	PRIVATE ROAD CROSSING	FO	
	14.21	15	100	0.03	STREAM CROSSING	FO	
	14.21	10	100	0.02	STREAM CROSSING	FO	
	14.26	10	100	0.02	STREAM CROSSING	FO	
	14.27	25	80	0.05	STREAM CROSSING	FO/OP	
	14.31	25	95	0.05	STREAM CROSSING	FO	
	14.38	25	460	0.26	SIDE SLOPE / STREAM CROSSING	FO	
	14.45	10	210	0.05	PRIVATE ROAD CROSSING	FO	
	14.45	15	165	0.06	PRIVATE ROAD CROSSING	FO	
	14.52	25	475	0.27	SIDE SLOPE	FO	
	14.57	15	100	0.03	STREAM CROSSING	FO	
	14.57	10	120	0.03	STREAM CROSSING	FO	
	14.61	15	100	0.03	STREAM CROSSING	FO	
	14.61	10	95	0.02	STREAM CROSSING	FO	
	14.66	25	515	0.3	SIDE SLOPE	FO	
	14.75	15	405	0.14	PRIVATE ROAD / UTILITY / STREAM CROSSING	FO/OP	
	14.75	10	440	0.1	PRIVATE ROAD / UTILITY / STREAM CROSSING	FO/OP	
	14.83	15	120	0.04	STREAM CROSSING	FO	
	14.83	10	100	0.02	STREAM CROSSING	FO	
	14.89	25	510	0.29	SIDE SLOPE	FO/OP	
	14.94	10	100	0.02	STREAM CROSSING	FO	
	14.94	15	100	0.03	STREAM CROSSING	FO	
	15.00	25	215	0.12	STREAM CROSSING	FO	
	15.04	25	55	0.03	STREAM CROSSING	FO	
	15.20	10	1585	0.36	SIDE SLOPE / CR 46 (NEW CUT RD) CROSSING	FO/OP	
	15.20	15	1630	0.56	SIDE SLOPE / CR 46 (NEW CUT RD) CROSSING	FO/OP	S4H-BE-297

**TABLE 1A-3**  
**Additional Temporary Workspace Requirements**

Segment	Approx. MP	Dimensions (feet)		Acres	Reason for ATWS	Land Use <sup>1</sup>	Within 50 feet of Wetland or Waterbody <sup>2</sup>
		Width	Length				
Majorsville Lateral	15.40	15	85	0.03	STREAM CROSSING	FO	
	15.44	25	270	0.15	SIDE SLOPE	FO	S4H-BE-295
	15.47	15	100	0.03	STREAM CROSSING	FO	S4H-BE-295
	15.47	10	100	0.02	STREAM CROSSING	FO	
	15.51	25	295	0.17	SIDE SLOPE	FO	
	15.71	25	1375	0.79	SIDE SLOPE	FO	
	15.83	15	100	0.03	STREAM CROSSING	FO	
	15.83	10	100	0.02	STREAM CROSSING	FO	
	15.88	15	135	0.05	STREAM CROSSING	FO	
	15.88	10	100	0.02	STREAM CROSSING	FO	
	16.05	25	1640	0.94	SIDE SLOPE	FO	
	16.24	10	425	0.1	TWP 716 (LASHLEY HILL RD) / STREAM CROSSING	FO/OP	
	16.25	15	470	0.16	TWP 716 (LASHLEY HILL RD) / STREAM CROSSING	FO/OP	
	16.37	10	420	0.1	STREAM CROSSING	FO	
	16.37	15	420	0.14	STREAM CROSSING	FO	
	16.51	25	215	0.12	SIDE SLOPE	FO	
	16.54	10	100	0.02	SIDE SLOPE	FO	
	16.54	15	100	0.03	SIDE SLOPE	FO	
	16.64	10	195	0.04	STREAM CROSSING	FO	
	16.70	25	500	0.29	SIDE SLOPE	FO	
	16.98	15	495	0.17	STREAM CROSSING / SIDE SLOPE	FO	
	16.99	10	530	0.12	STREAM CROSSING / SIDE SLOPE	FO	
	17.10	10	380	0.09	STREAM CROSSING / SIDE SLOPE	FO	
	17.10	15	360	0.12	STREAM CROSSING / SIDE SLOPE	FO	
	17.18	25	305	0.18	STREAM CROSSING / SIDE SLOPE	FO	
	17.22	10	115	0.03	WETLAND / STREAM CROSSING	FO	
	17.27	10	100	0.02	WETLAND / STREAM CROSSING	OP	
	17.34	25	155	0.09	SIDE SLOPE	FO/OP	
	17.59	10	110	0.03	STREAM CROSSING	AG/FO	S5ES-BE-146
	17.66	15	440	0.15	PRIVATE ROAD / STREAM CROSSING / SIDE SLOPE	OP/FO	
	17.67	10	420	0.1	PRIVATE ROAD / STREAM CROSSING / SIDE SLOPE	OP/FO	
	17.80	15	195	0.07	STREAM CROSSING	FO	

**TABLE 1A-3**  
**Additional Temporary Workspace Requirements**

Segment	Approx. MP	Dimensions (feet)		Acres	Reason for ATWS	Land Use <sup>1</sup>	Within 50 feet of Wetland or Waterbody <sup>2</sup>
		Width	Length				
Majorsville Lateral	17.80	10	200	0.05	STREAM CROSSING	FO	
	17.87	10	220	0.05	STREAM CROSSING	FO	
	17.91	25	235	0.13	XTO ENERGY PIPELINE / PRIVATE ROAD CROSSING	FO/OP	
	18.13	15	100	0.03	STREAM CROSSING	FO	
	18.16	10	120	0.03	STREAM CROSSING	OP	
	18.28	15	305	0.11	SIDE SLOPE	FO/OP	
	18.28	10	305	0.07	SIDE SLOPE	FO/OP	
	18.63	25	175	0.1	STREAM CROSSING	FO	
	18.71	25	280	0.16	STREAM CROSSING	FO	
	18.81	25	390	0.22	STREAM / WETLAND / PRIVATE ROAD CROSSING	FO	W4H-BE-312
	18.91	25	180	0.1	STREAM / WETLAND CROSSING	FO	
	19.11	25	160	0.09	STREAM CROSSING	FO	
	19.16	25	140	0.08	STREAM CROSSING	FO	
	19.46	25	105	0.06	HWY 147 (KEY BELLAIRE RD) CROSSING	OP/FO	
	19.53	15	100	0.03	WETLANDS / STREAM CROSSING	FO	
	19.53	10	100	0.02	WETLANDS / STREAM CROSSING	FO	
	19.62	15	375	0.13	STREAM / TWP 290 (SCALES RD) CROSSING	FO	
	19.64	10	210	0.05	STREAM / TWP 290 (SCALES RD) CROSSING	FO/OP	
	19.73	25	325	0.19	SIDE SLOPE	FO	
	19.77	10	100	0.02	STREAM CROSSING	FO	
	19.77	15	100	0.03	STREAM CROSSING	FO	
	19.82	10	100	0.02	STREAM CROSSING	FO	
	19.82	15	100	0.03	STREAM CROSSING	FO	
	20.04	25	2100	1.21	SIDE SLOPE	FO	
	20.26	10	260	0.06	CUMBERLAND RUN CROSSING	FO	
	20.26	15	310	0.11	CUMBERLAND RUN CROSSING	FO	
	20.35	10	495	0.11	CUMBERLAND RUN / TWP 289 (CUMBERLAND RUN RD) CROSSING / SIDE SLOPE	FO/OP	
	20.36	15	450	0.15	CUMBERLAND RUN / TWP 289 (CUMBERLAND RUN RD) CROSSING / SIDE SLOPE	FO/OP	
	20.52	25	1010	0.58	SIDE SLOPE	FO	
	20.75	25	195	0.11	STREAM CROSSING	FO/OP	
	20.81	25	155	0.09	STREAM CROSSING	FO	



**TABLE 1A-3**  
**Additional Temporary Workspace Requirements**

Segment	Approx. MP	Dimensions (feet)		Acres	Reason for ATWS	Land Use <sup>1</sup>	Within 50 feet of Wetland or Waterbody <sup>2</sup>
		Width	Length				
Majorsville Lateral	20.92	10	195	0.04	TWP 242 (MELLOTT RD) CROSSING / SIDE SLOPE	FO	
	20.92	15	280	0.1	TWP 242 (MELLOTT RD) CROSSING / SIDE SLOPE	FO	
	20.98	10	100	0.02	TWP 242 (MELLOTT RD) / STREAM CROSSING	FO	
	21.13	10	195	0.04	COLUMBIA GAS TRANSMISSION PIPELINE CROSSING	FO/OP	
	21.13	15	230	0.08	COLUMBIA GAS TRANSMISSION PIPELINE CROSSING	FO/OP	
	21.22	10	100	0.02	STREAM CROSSING / SIDE SLOPE	FO	
	21.22	15	100	0.03	STREAM CROSSING / SIDE SLOPE	FO	
	21.28	10	315	0.07	STREAM CROSSING / SIDE SLOPE	FO/OP	
	21.31	15	535	0.18	STREAM / TWP 241 (CLEGG RD) CROSSING / SIDE SLOPE	FO/OP	
	21.53	25	430	0.25	SIDE SLOPE	FO	
	21.58	15	70	0.02	STREAM CROSSING	FO	
	21.59	10	100	0.02	STREAM CROSSING	FO	
	21.74	25	265	0.15	SIDE SLOPE	FO	
	21.97	15	200	0.07	STREAM CROSSING	FO	
	21.97	10	200	0.05	STREAM CROSSING	FO	
	22.04	10	200	0.05	STREAM CROSSING	FO	
	22.06	15	375	0.13	STREAM CROSSING	FO	
	22.26	25	1760	1.01	SIDE SLOPE	FO	
	22.58	10	305	0.07	CR 5 (GLENCOE RD) / WILLIAMS CREEK CROSSING	FO/OP	
	22.59	15	370	0.13	CR 5 (GLENCOE RD) / WILLIAMS CREEK CROSSING	FO/OP	
	22.66	10	155	0.04	WILLIAMS CREEK CROSSING	FO	
	22.66	15	100	0.03	WILLIAMS CREEK CROSSING	FO	
	22.70	25	300	0.17	SIDE SLOPE	FO	
	22.88	25	760	0.44	SIDE SLOPE	FO	
	22.98	15	75	0.03	WETLAND / STREAM CROSSING	FO	
	22.98	10	100	0.02	WETLAND / STREAM CROSSING	FO	W2ES-BE-370 & S2ES-BE-367
	23.02	10	100	0.02	WETLAND / STREAM CROSSING	FO	W2ES-BE-370 & S2ES-BE-367
	23.03	15	100	0.03	WETLAND / STREAM CROSSING	FO	S2ES-BE-368
	23.22	25	220	0.13	SIDE SLOPE / TWP 250 (COEN ROAD) CROSSING	FO/OP	
	23.25	15	100	0.03	STREAM CROSSING	FO	
	23.26	10	100	0.02	STREAM CROSSING	FO	
	23.29	15	40	0.01	STREAM CROSSING	FO	

**TABLE 1A-3**  
**Additional Temporary Workspace Requirements**

Segment	Approx. MP	Dimensions (feet)		Acres	Reason for ATWS	Land Use <sup>1</sup>	Within 50 feet of Wetland or Waterbody <sup>2</sup>
		Width	Length				
Majorsville Lateral	23.30	10	100	0.02	STREAM CROSSING	OP/FO	
	23.39	25	245	0.14	SIDE SLOPE	FO	
Cadiz Lateral	1.23	25	140	0.08	STREAM CROSSING	FO/OP	
	1.87	10	100	0.02	STREAM CROSSING	OP	
	1.91	10	100	0.02	STREAM CROSSING	OP	
	1.94	10	100	0.02	STREAM CROSSING	OP	
	2.83	25	235	0.13	CR 269 (KANOSKI RD) CROSSING	FO	
Supply Connector Lines A and B	0.38	15	560	0.19	DOMINION / EAST OHIO GAS COMPANY PIPELINE / PRIVATE ROAD CROSSING	AG/FO/OP	
	1.24	15	210	0.07	CREEK CROSSING	OP/FO	
	1.30	15	150	0.05	CREEK CROSSING	OP	
	1.66	15	230	0.08	LEES RUN RD CROSSING	FO/OP	
	2.78	15	90	0.03	PRIVATE ROAD CROSSING	FO/OP	
	5.60	15	205	0.07	ECLIPSE PIPELINE CROSSING	AG/FO/OP	W4H-HR-492
	6.42	15	150	0.05	ACCESS MIDSTREAM PIPELINE CROSSING	FO	
	6.46	15	150	0.05	ACCESS MIDSTREAM PIPELINE CROSSING	FO	
	7.47	15	310	0.11	CR 22 (LOWER CLEARFORK ROAD) CROSSING	OP/AG	W4ES-HR-223
	8.59	15	135	0.05	WETLAND / STREAM CROSSING	FO	
	8.64	15	55	0.02	WETLAND / STREAM CROSSING	FO	
	8.77	15	100	0.03	CR 227 (LIGHTNER RIDGE RD) CROSSING	FO	
	9.46	15	310	0.11	ACCESS MIDSTREAM PIPELINE CROSSING	FO	
	10.19	15	340	0.12	CR 225 (HENDERSON ROAD) CROSSING	FO	
	10.30	15	250	0.09	WETLAND / STREAM CROSSING	FO/OP	
	10.46	15	250	0.09	WETLAND / STREAM CROSSING	FO/OP	
	11.56	15	130	0.04	CR 360 (HEDGEAPPLE ROAD) CROSSING	FO	
	11.60	15	60	0.02	STREAM CROSSING	FO	
	11.64	15	150	0.05	WETLANDS CROSSING	FO	
	12.63	15	200	0.07	CR 25 (BEAVER DAM ROAD) CROSSING	FO/OP	
	12.77	15	200	0.07	CR 25 (BEAVER DAM ROAD) / WETLAND CROSSING	FO	
	13.26	15	230	0.08	CR 44 CROSSING	FO/OP	
	13.45	15	300	0.1	PRIVATE ROAD CROSSING	FO	
	13.67	15	150	0.05	STREAM CROSSING	FO	
	13.72	15	100	0.03	STREAM CROSSING	FO	

**TABLE 1A-3**  
**Additional Temporary Workspace Requirements**

Segment	Approx. MP	Dimensions (feet)		Acres	Reason for ATWS	Land Use <sup>1</sup>	Within 50 feet of Wetland or Waterbody <sup>2</sup>
		Width	Length				
Supply Connector	14.08	15	150	0.05	WETLANDS CROSSING	FO	
	14.16	15	125	0.04	WETLAND / MILL HILL RD CROSSING	FO/OP	
	14.58	15	200	0.07	CR 213 (WILLIS RUN ROAD) / STREAM CROSSING	FO	
	15.20	15	150	0.05	STREAM CROSSING	AG	
	15.25	15	150	0.05	STREAM CROSSING	FO/AG	
	15.29	15	200	0.07	CR 8 CROSSING / WETLAND CROSSING / MIDSTREAM PIPELINE CROSSING	AG/FO/OP	
	15.38	15	225	0.08	CR 8 CROSSING / WETLAND CROSSING / MIDSTREAM PIPELINE CROSSING	FO/AG	
	15.78	15	475	0.16	DOMINION / EAST OHIO GAS COMPANY / MIDSTREAM PIPELINES CROSSING	FO/OP	
	16.51	50	300	0.34	HIGHWAY 151 HDD	FO	
	16.51	15	300	0.1	HIGHWAY 151 HDD	FO	
	16.78	75	230	0.4	HIGHWAY 151 HDD	FO	
	16.79	80	150	0.28	HIGHWAY 151 HDD	FO/OP	
	17.04	15	430	0.15	CALDWELL RD CROSSING	FO	
	17.40	15	150	0.05	STREAM CROSSING	FO	
	17.46	15	150	0.05	STREAM CROSSING	FO	
	17.51	15	290	0.1	CORDOVA RD / FOREIGN PIPELINE CROSSING	FO	
	17.90	15	270	0.09	NORTHEAST OHIO NATURAL GAS CO PIPELINE CROSSING	FO	
	18.15	15	225	0.08	PRIVATE RD / FOREIGN PIPELINE CROSSING	FO/OP	
	18.31	15	390	0.13	PRIVATE RD / EAST OHIO GAS COMPANY PIPELINE / STREAM / WETLAND CROSSING	FO	
	18.40	15	140	0.05	PRIVATE RD / EAST OHIO GAS COMPANY PIPELINE / STREAM / WETLAND CROSSING	AG/FO	W2ST-CA-150
Burgettstown Lateral	0.12	15	50	0.02	T 715 (POINT PLEASANT RD) CROSSING	OP	
	0.13	10	100	0.02	T 715 (POINT PLEASANT RD) CROSSING	FO	
	0.14	15	95	0.03	T 715 (POINT PLEASANT RD) CROSSING	FO	
	0.16	10	105	0.02	T 715 (POINT PLEASANT RD) CROSSING	FO/OP	
	0.42	10	95	0.02	T 700 (CREEK RD) CROSSING	OP/FO	
	0.44	15	105	0.04	T 700 (CREEK RD) CROSSING	OP/FO	
	0.46	10	105	0.02	T 700 (CREEK RD) CROSSING	FO	
	0.48	15	120	0.04	T 700 (CREEK RD) / WETLAND CROSSING	FO	

**TABLE 1A-3**  
**Additional Temporary Workspace Requirements**

Segment	Approx. MP	Dimensions (feet)		Acres	Reason for ATWS	Land Use <sup>1</sup>	Within 50 feet of Wetland or Waterbody <sup>2</sup>
		Width	Length				
Burgettstown Lateral	0.48	10	100	0.02	CREEK CROSSING	FO	
	0.53	15	100	0.03	CREEK CROSSING	FO	S4H-WA-442
	0.53	10	100	0.02	CREEK CROSSING	FO	S4H-WA-442
	1.06	10	100	0.02	T 329 (SPRUCE LN) CROSSING	FO/OP	
	1.06	15	100	0.03	T 329 (SPRUCE LN) CROSSING	FO/OP	
	1.18	15	155	0.05	SR 4007 (BAVINGTON RD) CROSSING	FO	
	1.19	10	255	0.06	SR 4007 (BAVINGTON RD) CROSSING	FO/OP	
	1.26	15	635	0.22	ST HWY 22 (WILLAIM PENN HWY) CROSSING / SIDE SLOPE	FO/OP	S4H-WA-446
	1.29	10	650	0.15	ST HWY 22 (WILLAIM PENN HWY) CROSSING / SIDE SLOPE	FO/OP	
	1.40	10	140	0.03	ST HWY 22 (WILLAIM PENN HWY) CROSSING	FO	S4H-WA-450 & S4H-WA-451
	1.40	15	255	0.09	ST HWY 22 (WILLAIM PENN HWY) CROSSING	FO	S4H-WA-450 & S4H-WA-451
	1.78	10	100	0.02	NATURAL DRAINAGE	FO	S4H-WA-452
	1.78	15	100	0.03	NATURAL DRAINAGE	FO	
	1.82	10	105	0.02	NATURAL DRAINAGE	FO	
	1.83	15	100	0.03	NATURAL DRAINAGE	FO	
	2.70	10	200	0.05	SIDE SLOPE	FO/OP	
	2.70	15	205	0.07	SIDE SLOPE	FO/OP	
	2.77	10	100	0.02	SIDE SLOPE	FO	
	2.78	15	100	0.03	SIDE SLOPE	FO	
	2.89	15	100	0.03	NATURAL DRAINAGE	FO	
	2.89	10	100	0.02	NATURAL DRAINAGE	FO	
	3.03	15	100	0.03	SIDE SLOPE	FO	
	3.03	10	100	0.02	SIDE SLOPE	FO/OP	
	3.34	10	100	0.02	WETLAND CROSSING	FO	
	3.36	15	105	0.04	WETLAND CROSSING	FO	
	3.41	10	105	0.02	WETLAND CROSSING	FO/OP	
	3.42	15	95	0.03	WETLAND CROSSING	FO	
	3.48	15	100	0.03	PRIVATE ROAD CROSSING	OP	
	3.49	10	100	0.02	PRIVATE ROAD CROSSING	OP	
	3.51	15	100	0.03	PRIVATE ROAD CROSSING	OP	
	3.52	10	95	0.02	PRIVATE ROAD CROSSING	OP	
	3.69	15	100	0.03	SHOVEL RD CROSSING	FO/OP	

**TABLE 1A-3**  
**Additional Temporary Workspace Requirements**

Segment	Approx. MP	Dimensions (feet)		Acres	Reason for ATWS	Land Use <sup>1</sup>	Within 50 feet of Wetland or Waterbody <sup>2</sup>
		Width	Length				
Burgettstown Lateral	3.69	10	100	0.02	SHOVEL RD CROSSING	OP	
	3.71	15	100	0.03	SHOVEL RD CROSSING	FO/OP	
	3.71	10	100	0.02	SHOVEL RD CROSSING	OP	
	4.11	15	100	0.03	STEUBENVILLE PIKE RD CROSSING	FO	
	4.11	10	100	0.02	STEUBENVILLE PIKE RD CROSSING	FO/OP	
	4.14	15	100	0.03	STEUBENVILLE PIKE RD CROSSING	FO/OP	
	4.14	10	100	0.02	STEUBENVILLE PIKE RD CROSSING	FO	
	4.79	25	150	0.09	STREAM / WETLAND CROSSING	FO	
	4.84	25	150	0.09	STREAM / WETLAND CROSSING	FO	
	4.92	15	55	0.02	WETLAND CROSSING	FO	
	4.92	10	75	0.02	WETLAND CROSSING	FO	
	4.98	15	100	0.03	5 POINTS RD CROSSING	FO/OP	
	4.99	10	100	0.02	5 POINTS RD CROSSING	FO/OP	
	5.32	15	100	0.03	WETLAND CROSSING	FO	
	5.35	10	100	0.02	WETLAND CROSSING	FO	
	5.37	15	95	0.03	WETLAND CROSSING	FO	
	5.39	10	100	0.02	WETLAND CROSSING	FO	
	5.66	25	300	0.17	SIDE SLOPE	FO	
	5.80	10	100	0.02	ST HWY 18 CROSSING	OP	
	6.33	15	100	0.03	WETLAND CROSSING	FO	
	6.38	10	100	0.02	WETLAND CROSSING	FO	
	6.40	15	100	0.03	WETLAND CROSSING	FO	
	6.41	10	100	0.02	WETLAND CROSSING	FO	
	6.77	25	100	0.06	STREAM CROSSING	FO	
	7.48	25	150	0.09	STREAM CROSSING	FO	
	7.53	25.00	150.00	0.09	STREAM CROSSING	FO	
	7.63	25.00	100.00	0.06	STREAM CROSSING	FO	
	7.78	25	200	0.11	PURDY RD CROSSING	FO	
	7.82	10	105	0.02	PURDY RD CROSSING	FO	
	7.86	25	235	0.13	PURDY RD CROSSING	OP	
	8.10	25	100	0.06	SIDE SLOPE	FO	
	8.15	25	285	0.16	SIDE SLOPE	FO	

**TABLE 1A-3**  
**Additional Temporary Workspace Requirements**

Segment	Approx. MP	Dimensions (feet)		Acres	Reason for ATWS	Land Use <sup>1</sup>	Within 50 feet of Wetland or Waterbody <sup>2</sup>
		Width	Length				
Burgettstown Lateral	8.20	25	135	0.08	SIDE SLOPE	FO	
	8.81	10	150	0.03	PRIVATE ROAD CROSSING	FO/OP	
	8.83	15	105	0.04	PRIVATE ROAD CROSSING	FO/OP	
	8.85	10	150	0.03	WETLAND CROSSING	FO	
	8.85	15	120	0.04	WETLAND CROSSING	FO	
	8.89	10	75	0.02	WETLAND CROSSING	OP	
	8.98	15	105	0.04	AUNT CLARA RD CROSSING	FO	
	8.99	10	100	0.02	AUNT CLARA RD CROSSING	FO	
	9.30	10	100	0.02	WETLAND CROSSING	FO	
	9.33	15	100	0.03	WETLAND CROSSING	FO	
	9.38	15	50	0.02	WETLAND CROSSING	FO	
	9.77	10	95	0.02	AUNT CLARA RD CROSSING	FO	
	9.78	15	100	0.03	AUNT CLARA RD CROSSING	OP/FO	
	10.51	25	100	0.06	STREAM CROSSING	FO	
	10.55	25	100	0.06	STREAM CROSSING	FO	
	11.11	15	100	0.03	STREAM CROSSING	FO	
	11.11	10	100	0.02	STREAM CROSSING	FO	
	11.18	25	150	0.09	WATERBODY CROSSING	FO	
	11.21	10	85	0.02	WETLAND CROSSING	OP/FO	
	11.33	25	100	0.06	STREAM CROSSING	FO	
	11.83	25	100	0.06	STREAM CROSSING	FO	
	11.90	25	145	0.08	STREAM CROSSING	FO	
	12.56	15	95	0.03	WINDING RIDGE RD CROSSING	FO	
	12.58	10	95	0.02	WINDING RIDGE RD CROSSING	FO	
	12.60	10	100	0.02	POWERLINE CROSSING	FO	
	12.60	15	100	0.03	POWERLINE CROSSING	FO	
	12.63	10	100	0.02	POWERLINE CROSSING	FO	
	12.64	15	100	0.03	POWERLINE CROSSING	FO	
	13.25	25	100	0.06	STREAM CROSSING	FO	
	13.31	25	100	0.06	STREAM CROSSING	FO	
	13.38	25	100	0.06	STREAM CROSSING	FO	
	13.44	15	100	0.03	STREAM CROSSING	FO	

**TABLE 1A-3**  
**Additional Temporary Workspace Requirements**

Segment	Approx. MP	Dimensions (feet)		Acres	Reason for ATWS	Land Use <sup>1</sup>	Within 50 feet of Wetland or Waterbody <sup>2</sup>
		Width	Length				
Burgettstown Lateral	13.60	25	100	0.06	STREAM CROSSING	FO	
	13.66	25	100	0.06	STREAM CROSSING	FO	
	13.80	25	100	0.06	STREAM CROSSING	FO	
	13.95	25	100	0.06	STREAM CROSSING	FO	
	13.99	25	100	0.06	STREAM CROSSING	FO	
	14.36	15	85	0.03	SHADY GLEN RD CROSSING	FO	
	14.36	10	95	0.02	SHADY GLEN RD CROSSING	FO	
	14.42	25	205	0.12	SHADY GLEN RD CROSSING	FO	
	14.54	50	360	0.41	GOLF COURSE HDD	FO/OP	
	15.00	25	600	0.34	GOLF COURSE / OHIO RIVER HDD	FO/OP	WB4ES-HA-186
	15.00	50	600	0.69	GOLF COURSE / OHIO RIVER HDD	FO/OP	W4ES-HA-187
	16.09	50	300	0.34	OHIO RIVER HDD	FO/OP	S1ES-JE-197
	16.09	25	300	0.17	OHIO RIVER HDD	FO	
	16.22	10	125	0.03	JFK HWY / US HWY 47 CROSSING	FO/OP	
	16.26	25	280	0.16	US HWY 47 CROSSING	FO/OP	S1ES-JE-191 & W1ES-JE-192
	16.63	15	85	0.03	STREAM / JFK HWY CROSSING	FO	
	16.64	10	85	0.02	STREAM / JFK HWY CROSSING	FO	
	16.70	10	100	0.02	JFK HWY CROSSING	FO	
	16.79	10	90	0.02	HALE RD / STREAM CROSSING	FO	
	16.79	15	100	0.03	HALE RD / STREAM CROSSING	FO	
	16.83	10	95	0.02	HALE RD / STREAM CROSSING	FO/OP	
	16.85	15	100	0.03	HALE RD / STREAM CROSSING	FO	
	17.03	25	200	0.11	SIDE SLOPE	FO	
	17.42	25	100	0.06	STREAM CROSSING	FO	
	17.48	25	100	0.06	STREAM CROSSING	FO	
	17.52	15	100	0.03	CR 246 CROSSING	FO	
	17.52	10	100	0.02	CR 246 CROSSING	FO	
	17.55	15	100	0.03	CR 246 / STREAM CROSSING	FO	
	17.55	10	100	0.02	CR 246 / STREAM CROSSING	FO	
	17.64	25	365	0.21	SIDE SLOPE	FO	
	17.77	10	50	0.01	STREAM CROSSING	FO	S4ES-JE-183
	17.78	15	85	0.03	STREAM CROSSING	FO	

**TABLE 1A-3**  
**Additional Temporary Workspace Requirements**

Segment	Approx. MP	Dimensions (feet)		Acres	Reason for ATWS	Land Use <sup>1</sup>	Within 50 feet of Wetland or Waterbody <sup>2</sup>
		Width	Length				
Burgettstown Lateral	17.81	10	100	0.02	STREAM CROSSING	FO	
	17.83	15	100	0.03	STREAM CROSSING	FO	
	18.23	25	100	0.06	STREAM CROSSING	FO	
	18.29	25	100	0.06	STREAM CROSSING	FO	
	18.93	25	100	0.06	STREAM CROSSING	FO	
	18.98	25	100	0.06	STREAM CROSSING	FO	
	19.05	15	100	0.03	CR 1350 CROSSING	OP	
	19.06	10	95	0.02	CR 1350 CROSSING	OP/FO	
	19.07	15	95	0.03	CR 1350 CROSSING	AG/FO	
	19.08	10	105	0.02	CR 1350 CROSSING	FO	
	19.36	15	95	0.03	STREAM CROSSING	FO	
	19.37	10	95	0.02	STREAM CROSSING	FO	
	19.40	15	95	0.03	STREAM CROSSING	FO	S2ES-JE-201
	19.41	10	95	0.02	STREAM CROSSING	FO	
	19.70	15	100	0.03	ST HWY 213 CROSSING	FO/OP	
	19.71	10	100	0.02	ST HWY 213 CROSSING	FO/OP	
	19.74	10	100	0.02	ST HWY 213 CROSSING	OP	
	20.31	15	100	0.03	CR 243 CROSSING	FO	
	20.32	10	100	0.02	CR 243 CROSSING	FO	
	20.34	15	100	0.03	CR 243 CROSSING	OP	
	20.35	10	100	0.02	CR 243 CROSSING	OP	
	20.65	15	200	0.07	STREAM CROSSING	FO	
	20.65	10	65	0.01	STREAM CROSSING	FO	S2ES-JE-208
	20.70	10	140	0.03	STREAM CROSSING	FO	
	20.73	15	115	0.04	STREAM CROSSING	FO	S2ES-JE-206
	21.19	10	100	0.02	CR 350 CROSSING	OP	
	21.42	25	100	0.06	STREAM CROSSING	FO	
	21.49	25	100	0.06	STREAM CROSSING	FO	
	21.83	15	100	0.03	STREAM / PRIVATE ROAD CROSSING	FO	
	21.83	10	125	0.03	STREAM / PRIVATE ROAD CROSSING	FO	
	21.90	10	100	0.02	STREAM / PRIVATE ROAD CROSSING	FO	
	21.90	15	100	0.03	STREAM / PRIVATE ROAD CROSSING	FO	



**TABLE 1A-3**  
**Additional Temporary Workspace Requirements**

Segment	Approx. MP	Dimensions (feet)		Acres	Reason for ATWS	Land Use <sup>1</sup>	Within 50 feet of Wetland or Waterbody <sup>2</sup>
		Width	Length				
Burgettstown Lateral	21.95	25	100	0.06	SIDE SLOPE	FO	
	22.22	25	200	0.11	PRIVATE ROAD CROSSING	FO	
	22.43	25	85	0.05	WETLAND / STREAM CROSSING	FO	
	22.48	25	80	0.05	WETLAND / STREAM CROSSING	FO	
	22.69	15	110	0.04	WAGGONER ROAD / STREAM CROSSING	FO	
	22.69	10	60	0.01	WAGGONER ROAD / STREAM CROSSING	FO	
	22.96	15	100	0.03	CR 56 CROSSING	FO	
	22.96	10	100	0.02	CR 56 CROSSING	FO	
	22.99	10	100	0.02	CR 56 CROSSING	FO/OP	
	23.01	15	85	0.03	CR 56 CROSSING	FO/OP	
	23.22	25	100	0.06	WETLAND / STREAM CROSSING	FO	S4ES-JE-170
	23.29	25	100	0.06	WETLAND / STREAM CROSSING	FO	
	23.90	25	100	0.06	STREAM CROSSING	FO	
	23.94	25	100	0.06	STREAM CROSSING	FO	
	24.73	25	100	0.06	STREAM CROSSING	FO	
	25.11	25	100	0.06	WETLAND / STREAM CROSSING	FO	
	25.20	25	100	0.06	WETLAND / STREAM CROSSING	OP/FO	
	25.57	25	100	0.06	STREAM CROSSING	FO	
	25.61	25	100	0.06	STREAM CROSSING	FO	
	25.66	25	100	0.06	STREAM CROSSING / SIDE SLOPE	OP	
	26.16	25	100	0.06	STREAM CROSSING	FO	
	26.21	25	100	0.06	STREAM CROSSING	FO	
	26.44	25	100	0.06	STREAM CROSSING	FO	
	26.48	25	100	0.06	STREAM CROSSING	FO	
	26.57	25	100	0.06	STREAM CROSSING	FO	
	26.61	25	100	0.06	STREAM CROSSING	FO	
	26.81	10	100	0.02	CR 218 / STREAM CROSSING	FO	
	26.82	15	100	0.03	CR 218 / STREAM CROSSING	FO	
	26.89	25	100	0.06	STREAM CROSSING	FO	
	27.08	25	100	0.06	STREAM CROSSING	FO	
	27.20	10	105	0.02	CR 43 CROSSING	OP	
	27.22	15	100	0.03	CR 43 CROSSING	OP	

**TABLE 1A-3**  
**Additional Temporary Workspace Requirements**

Segment	Approx. MP	Dimensions (feet)		Acres	Reason for ATWS	Land Use <sup>1</sup>	Within 50 feet of Wetland or Waterbody <sup>2</sup>
		Width	Length				
Burgettstown Lateral	27.24	10	100	0.02	STREAM CROSSING	FO	S2T-JE-108
	27.25	15	100	0.03	STREAM CROSSING	FO	S2T-JE-108
	27.33	10	100	0.02	WETLAND CROSSING	FO	
	27.33	15	100	0.03	WETLAND CROSSING	FO	
	27.39	15	140	0.05	WETLAND CROSSING	FO	
	27.40	10	100	0.02	WETLAND CROSSING	FO	
	28.17	10	100	0.02	STREAM CROSSING	FO	
	28.17	15	100	0.03	STREAM CROSSING	FO	
	28.24	10	100	0.02	STREAM CROSSING	FO	
	28.25	15	140	0.05	STREAM CROSSING	FO	
	28.90	15	80	0.03	SIDE SLOPE	FO	
	28.91	10	100	0.02	SIDE SLOPE	FO	
	28.94	15	95	0.03	SIDE SLOPE	FO	
	28.96	10	100	0.02	SIDE SLOPE	FO	
	29.12	10	100	0.02	WETLAND / STREAM CROSSING	FO/OP	
	29.16	15	100	0.03	WETLAND / STREAM CROSSING	FO	W2ST-JE-105
	29.18	10	75	0.02	WETLAND / STREAM CROSSING	OP/FO	
	29.21	15	100	0.03	WETLAND / STREAM CROSSING	OP	
	29.79	15	100	0.03	CR 220 CROSSING	OP	
	29.79	10	100	0.02	CR 220 CROSSING	FO	
	30.17	25	100	0.06	STREAM CROSSING	FO	
	30.21	25	100	0.06	STREAM CROSSING	FO	
	30.55	25	100	0.06	STREAM CROSSING	FO	
	30.59	25	100	0.06	STREAM CROSSING	FO	
	30.83	15	85	0.03	WETLAND CROSSING	FO	
	30.84	10	95	0.02	WETLAND CROSSING	FO	
	30.90	15	100	0.03	WETLAND CROSSING	FO/OP	
	30.91	10	100	0.02	WETLAND CROSSING	OP	
	31.59	10	100	0.02	WETLAND / STREAM CROSSING	FO	
	31.59	15	100	0.03	WETLAND / STREAM CROSSING	FO	
	32.02	25	100	0.06	STREAM CROSSING	FO	
	32.07	25	100	0.06	STREAM CROSSING	FO	

**TABLE 1A-3**  
**Additional Temporary Workspace Requirements**

Segment	Approx. MP	Dimensions (feet)		Acres	Reason for ATWS	Land Use <sup>1</sup>	Within 50 feet of Wetland or Waterbody <sup>2</sup>
		Width	Length				
Burgettstown Lateral	32.98	10	100	0.02	WETLAND CROSSING	FO/OP	
	33.03	10	85	0.02	WETLAND CROSSING	OP	
	33.04	15	100	0.03	WETLAND CROSSING	FO	
	33.97	15	100	0.03	WETLAND / RAILROAD CROSSING	FO	
	33.98	10	100	0.02	WETLAND / RAILROAD CROSSING	FO	
	34.24	10	100	0.02	WETLAND / STREAM CROSSING	FO	
	34.25	15	80	0.03	WETLAND / STREAM CROSSING	FO	
	34.31	25	100	0.06	STREAM CROSSING	FO	
	35.06	15	100	0.03	ST HWY 78 CROSSING	FO/OP	
	35.06	10	100	0.02	ST HWY 78 CROSSING	FO	
	35.09	15	100	0.03	ST HWY 78 CROSSING	FO	
	35.09	10	100	0.02	ST HWY 78 CROSSING	FO	
	35.43	25	100	0.06	STREAM CROSSING	FO	
	35.49	25	100	0.06	STREAM CROSSING	FO	
	35.97	10	100	0.02	QUEENS RD CROSSING	FO	
	35.98	15	100	0.03	QUEENS RD CROSSING	FO	
	35.99	10	60	0.01	WETLAND / STREAM CROSSING	FO	
	36.00	15	50	0.02	WETLAND / STREAM CROSSING	FO	
	36.04	10	50	0.01	WETLAND / STREAM CROSSING	FO	
	36.05	15	100	0.03	WETLAND / STREAM CROSSING	FO/OP	S2TB-CA-273
	36.24	15	70	0.02	CALVARY RD CROSSING	FO	
	36.26	10	100	0.02	CALVARY RD CROSSING	AG	
	36.50	25	100	0.06	STREAM CROSSING	FO	
	36.54	25	100	0.06	STREAM CROSSING	FO	
	36.73	25	100	0.06	WETLAND / STREAM CROSSING	FO	W2TB-CA-231
	37.30	25	100	0.06	STREAM CROSSING	FO	
	37.35	25	100	0.06	STREAM CROSSING	FO	
	37.56	10	95	0.02	GERMANO RD CROSSING	FO	
	37.59	15	195	0.07	GERMANO RD CROSSING	FO	
	37.86	10	85	0.02	STREAM CROSSING	FO/OP	
	37.90	10	100	0.02	STREAM CROSSING	OP	
	38.06	25	100	0.06	STREAM CROSSING	FO	

**TABLE 1A-3**  
**Additional Temporary Workspace Requirements**

Segment	Approx. MP	Dimensions (feet)		Acres	Reason for ATWS	Land Use <sup>1</sup>	Within 50 feet of Wetland or Waterbody <sup>2</sup>
		Width	Length				
Burgettstown Lateral	38.10	25	100	0.06	STREAM CROSSING	FO	
	38.33	25	100	0.06	WETLAND / STREAM CROSSING	FO	
	38.38	25	100	0.06	WETLAND / STREAM CROSSING	FO	
	38.42	15	100	0.03	PROFIT RD CROSSING	FO	
	38.43	10	100	0.02	PROFIT RD CROSSING	FO	
	38.70	25	100	0.06	STREAM CROSSING	FO	
	38.79	25	100	0.06	WETLAND CROSSING	FO	W4ES-CA-120
	38.87	10	100	0.02	WETLAND CROSSING	FO	
	38.87	15	95	0.03	WETLAND CROSSING	FO	
	39.63	25	100	0.06	WETLAND / STREAM CROSSING	FO	
	39.71	10	100	0.02	WETLAND / STREAM CROSSING	FO	
	39.72	15	100	0.03	WETLAND / STREAM CROSSING	FO	
	40.43	15	100	0.03	STREAM CROSSING	FO	
	40.43	10	100	0.02	STREAM CROSSING	FO	S2TB-CA-238
	40.69	25	100	0.06	STREAM CROSSING	FO	
	40.73	25	100	0.06	STREAM CROSSING	FO	
	40.86	25	100	0.06	STREAM CROSSING	FO	
	41.01	10	95	0.02	CASTLE RD CROSSING	OP	
	41.44	10	100	0.02	CASTLE RD CROSSING	OP/FO	
	41.78	15	100	0.03	WETLAND CROSSING	FO	
	41.84	10	185	0.04	SABER RD CROSSING	FO	
	41.86	15	55	0.02	SABER RD CROSSING	OP	
	41.87	10	100	0.02	SABER RD CROSSING	FO	
	42.09	25	100	0.06	STREAM CROSSING	FO	
	42.16	25	100	0.06	STREAM CROSSING	FO	
	42.43	25	100	0.06	STREAM CROSSING	FO	
	42.48	25	100	0.06	STREAM CROSSING	FO	
	42.83	10	100	0.02	PRIVATE ROAD / WETLAND CROSSING	FO	
	43.05	10	145	0.03	POKER RD CROSSING	OP	
	43.06	15	140	0.05	POKER RD CROSSING	FO	
	43.07	10	100	0.02	POKER RD CROSSING	OP	
	43.10	15	60	0.02	POKER RD CROSSING	OP	

**TABLE 1A-3**  
**Additional Temporary Workspace Requirements**

Segment	Approx. MP	Dimensions (feet)		Acres	Reason for ATWS	Land Use <sup>1</sup>	Within 50 feet of Wetland or Waterbody <sup>2</sup>
		Width	Length				
Burgettstown Lateral	43.14	15	100	0.03	WETLAND CROSSING	FO	
	43.15	10	95	0.02	WETLAND CROSSING	FO	
	43.58	25	100	0.06	STREAM CROSSING	FO	
	43.68	25	100	0.06	STREAM CROSSING	FO	
	43.72	25	100	0.06	STREAM CROSSING	FO	
	44.23	25	185	0.11	STREAM CROSSING	FO	
	44.31	25	100	0.06	STREAM CROSSING	FO	
	44.47	15	50	0.02	DIAMOND RD CROSSING	OP	
	44.48	10	100	0.02	DIAMOND RD CROSSING	OP	
	44.48	15	100	0.03	DIAMOND RD CROSSING	OP	
	45.80	25	145	0.08	WETLAND / STREAM CROSSING	FO	
	45.87	25	100	0.06	WETLAND / STREAM CROSSING	FO	S2ES-CA-172
	46.19	15	95	0.03	WETLAND / STREAM CROSSING	FO	
	46.25	10	105	0.02	WETLAND / STREAM CROSSING	FO	
	46.26	15	100	0.03	WETLAND / STREAM CROSSING	FO	
	46.40	15	100	0.03	DESERT RD CROSSING	FO/OP	
	46.40	10	100	0.02	DESERT RD CROSSING	FO	
	46.42	15	100	0.03	DESERT RD CROSSING	FO	
	46.42	10	100	0.02	DESERT RD CROSSING	FO	
	46.49	10	100	0.02	WETLAND CROSSING	FO	
	46.50	15	100	0.03	WETLAND CROSSING	FO	
	46.55	10	100	0.02	WETLAND CROSSING	FO	
	46.57	15	100	0.03	WETLAND CROSSING	FO	
	46.87	10	75	0.02	STREAM CROSSING	FO	
	46.87	15	70	0.02	STREAM CROSSING	FO	
	46.91	15	100	0.03	STREAM CROSSING	FO	
	46.94	10	75	0.02	WETLANDS / STREAM CROSSING	FO	W4ES-CA-151
	47.36	25	100	0.06	STREAM CROSSING	FO	
	47.44	25	425	0.24	STREAM / ACCESS MIDSTREAM PIPELINE CROSSING	FO	S2ES-CA-219
	47.48	25	100	0.06	ACCESS MIDSTREAM PIPELINE CROSSING	FO	
	47.65	25	50	0.03	STREAM / WETLAND CROSSING	FO	
	47.68	25	25	0.01	STREAM / WETLAND CROSSING	FO	S4ES-CA-133 & W4ES-CA-134

**TABLE 1A-3**  
**Additional Temporary Workspace Requirements**

Segment	Approx. MP	Dimensions (feet)		Acres	Reason for ATWS	Land Use <sup>1</sup>	Within 50 feet of Wetland or Waterbody <sup>2</sup>
		Width	Length				
Burgettstown Lateral	47.90	25	100	0.06	STREAM CROSSING	FO	
	48.00	25	100	0.06	STREAM CROSSING	FO	WB4ES-CA-137 & S4ES-CA-135
	48.38	15	90	0.03	US HWY 164 CROSSING	FO/OP	
	48.39	10	100	0.02	US HWY 164 CROSSING	FO	
	48.80	25	100	0.06	STREAM CROSSING	FO	
	48.85	25	145	0.08	COUNTRY ROAD 116 / STREAM CROSSING	FO	
	48.87	15	95	0.03	COUNTRY ROAD 116 CROSSING	FO	
	48.88	10	100	0.02	COUNTRY ROAD 116 CROSSING	FO	
	49.20	15	100	0.03	DEACON RD CROSSING	FO	
	49.21	10	100	0.02	DEACON RD CROSSING	FO	
	49.23	15	135	0.05	DEACON RD CROSSING	FO	
	49.23	10	100	0.02	DEACON RD CROSSING	FO	
	50.07	10	100	0.02	US HWY 212 CROSSING	FO/OP	
	50.08	15	100	0.03	US HWY 212 CROSSING	FO/OP	
	50.46	10	105	0.02	CR 100 CROSSING	FO	
	50.68	10	150	0.03	WETLAND / STREAM CROSSING	FO	
Subtotal: Supply Laterals				255.66			
Mainlines:							
Mainlines A and B	19.09	15	150	0.05	STREAM CROSSING	FO	
	19.16	15	105	0.04	TENNESSEE GAS PIPELINE / CREEK CROSSING	FO	
	19.40	15	365	0.13	TENNESSEE GAS / FOREIGN PIPELINE CROSSING	FO/OP	
	19.53	15	270	0.09	PETROX INC PIPELINE CROSSING	FO	
	19.67	15	150	0.05	STREAM CROSSING	FO	
	19.74	15	150	0.05	STREAM CROSSING	FO	
	20.04	15	345	0.12	TENNESSEE GAS PIPELINE CROSSING	OP	
	20.13	15	150	0.05	STREAM CROSSING	FO	
	20.17	15	200	0.07	CR 108 CROSSING	FO	
	20.40	50	420	0.48	DOMINION / EAST OHIO GAS COMPANY / MIDSTREAM PIPELINE CROSSING	AG	
	20.71	50	180	0.21	MB OPERATING PIPELINE CROSSING	FO/OP	
	20.95	15	70	0.02	CRANE RD / FOREIGN PIPELINE CROSSING	FO/RD	
	21.01	15	130	0.04	CRANE RD / FOREIGN PIPELINE CROSSING	FO	

**TABLE 1A-3**  
**Additional Temporary Workspace Requirements**

Segment	Approx. MP	Dimensions (feet)		Acres	Reason for ATWS	Land Use <sup>1</sup>	Within 50 feet of Wetland or Waterbody <sup>2</sup>
		Width	Length				
Mainlines A and B	21.24	15	685	0.24	NEW PHILADELPHIA / EAST OHIO GAS COMPANY / MIDSTREAM PIPELINE CROSSING	FO/OP	
	21.61	15	70	0.02	WATERBODY / WETLAND CROSSING	FO	W2ST-CA-141
	21.69	15	390	0.13	BELDEN AND BLAKE CORP / MB OPERATING PIPELINE CROSSING	OP	
	21.83	15	500	0.17	FOREIGN PIPELINE / RANGE RESOURCES PIPELINE CROSSING	FO	
	22.21	15	140	0.05	CR 111 (CUTLER ROAD) CROSSING	FO/OP	
	22.38	15	185	0.06	PRIVATE ROAD CROSSING	FO/OP	
	22.51	15	195	0.07	STREAM CROSSING	OP	
	22.57	15	170	0.06	STREAM CROSSING	FO	S4ES-CA-205
	22.78	15	150	0.05	WETLANDS CROSSING	FO	
	22.85	15	150	0.05	WETLANDS CROSSING	FO	
	23.55	15	150	0.05	WETLANDS CROSSING	FO	
	23.61	15	150	0.05	WETLANDS CROSSING	FO	
	23.94	15	265	0.09	CR 394 / TELEPHONE CABLE CROSSING	FO	
	24.05	15	250	0.09	WHEELING AND LAKE ERIE RAILROAD / CR 320 CROSSING	FO/OP	
	24.10	15	45	0.02	WHEELING AND LAKE ERIE RAILROAD / CR 320 CROSSING	OP	
	24.22	50	970	1.11	FALSE ROW - INDIAN FORK HDD	AG/OP	
	24.83	50	300	0.34	INDIAN FORK HDD	AG/OP/FO	W7H-TU-255
	28.11	15	330	0.11	FIELD ROAD / WATERBODY / ENERVEST OPER. LLC / MIDSTREAM PIPELINES CROSSING	FO/AG	W4H-TU-439
	30.27	15	435	0.15	WATER BODY CROSSING	FO/OP	
	30.68	15	150	0.05	PRIVATE ROAD CROSSING	FO	
	30.72	15	150	0.05	PRIVATE ROAD CROSSING	FO	
	31.38	15	325	0.11	CR 90 (NEW CUMBERLAND ROAD NE) CROSSING	FO/OP	
	31.56	15	1365	0.47	SIDE SLOPE / GREAT LAKES ENERGY PIPELINE / WATER BODY CROSSING	FO	
	31.87	15	100	0.03	WATERBODY CROSSING	FO	
	31.95	15	680	0.23	FOREIGN PIPELINE / RANGE RESOURCES PIPELINE / CR 110 CROSSING	FO/OP	
	32.06	15	250	0.09	WATER BODY CROSSING	FO	
	32.85	15	195	0.07	STREAM CROSSING	FO	S4H-TU-381
	32.93	15	125	0.04	FOREIGN PIPELINE CROSSING	FO	
	32.95	15	80	0.03	FOREIGN PIPELINE / STREAM CROSSING	FO	

**TABLE 1A-3**  
**Additional Temporary Workspace Requirements**

Segment	Approx. MP	Dimensions (feet)		Acres	Reason for ATWS	Land Use <sup>1</sup>	Within 50 feet of Wetland or Waterbody <sup>2</sup>
		Width	Length				
Mainlines A and B	34.49	15	375	0.13	CR 107 (SANDYVILLE ROAD NE) / WETLAND CROSSING	FO	
	35.64	200	135	0.62	SANDY CREEK HDD	AG	
	35.66	50	85	0.1	SANDY CREEK HDD	OP	
	35.91	50	300	0.34	SANDY CREEK HDD	OP	
	38.31	15	165	0.06	DOMINION PIPELINE CROSSING	OP	
	38.42	15	370	0.13	GRACEMONT ST RD CROSSING	OP/FO	
	38.48	15	150	0.05	FOREIGN PIPELINE CROSSING	FO	
	38.52	15	150	0.05	FOREIGN PIPELINE CROSSING	FO	
	38.83	15	275	0.09	PRIVATE ROAD CROSSING	FO/OP	
	39.19	15	250	0.09	FOREIGN PIPELINE / PRIVATE ROAD CROSSING	FO	
	39.56	100	300	0.69	INTERSTATE 77 HDD	FO	
	39.58	50	200	0.23	INTERSTATE 77 HDD	FO/OP	
	39.88	50	300	0.34	INTERSTATE 77 HDD	AG	
	40.94	15	195	0.07	STREAM CROSSING	FO	
	40.99	15	135	0.05	STREAM CROSSING	FO	
	41.70	50	865	0.99	FALSE ROW - TUSCARAWAS RIVER HDD	AG/FO	
	42.47	50	300	0.34	TUSCARAWAS RIVER HDD	AG	
	43.63	15	145	0.05	BLOUGH AVE RD CROSSING	OP/FO	
	45.05	15	100	0.03	ST HWY 21 CROSSING	FO	
	45.19	15	245	0.08	DOMINION PIPELINE / STREAM/ WATERBODY CROSSING	FO/OP	
	45.27	15	110	0.04	STREAM / WATERBODY CROSSING	FO	
	46.02	15	145	0.05	GOODRICH RD CROSSING	FO/OP	
	49.06	15	150	0.05	WATER BODY / WETLAND CROSSING	FO	
	51.87	15	545	0.19	CR 105 / DOMINION PIPELINE / STREAM CROSSING	FO/OP	S2H-WA-125
	53.20	50	300	0.34	STREAM AT HIGHWAY 241 HDD	AG	
	53.53	145	300	1	STREAM AT HIGHWAY 241 HDD	OP	W7H-WA-176
	54.63	15	120	0.04	CR 97 / STREAM CROSSING	FO	
	54.77	15	205	0.07	WETLANDS / STREAM CROSSING	FO	
	54.83	15	85	0.03	STREAM CROSSING	FO	
	55.93	15	100	0.03	DOMINION PIPELINE CROSSING	FO	
	56.64	15	150	0.05	OXFORD OIL PIPELINE CROSSING	FO	
	59.94	15	70	0.02	DOMINION PIPELINE / CR 199 CROSSING	FO	



**TABLE 1A-3**  
**Additional Temporary Workspace Requirements**

Segment	Approx. MP	Dimensions (feet)		Acres	Reason for ATWS	Land Use <sup>1</sup>	Within 50 feet of Wetland or Waterbody <sup>2</sup>
		Width	Length				
Mainlines A and B	63.28	15	80	0.03	WETLANDS CROSSING	FO/OP	
	67.59	60	620	0.85	PRAIRIE LANE HDD BACKSTRING / CR 176 / PRIVATE ROAD / WATERBODY / WETLAND / LEVEE CROSSING	AG	
	67.80	15	100	0.03	PRIVATE RD CROSSING	FO	
	67.92	50	300	0.34	PRAIRIE LANE HDD / CR 176 / PRIVATE ROAD / WATERBODY / WETLAND / LEVEE CROSSING	AG	S1M-WA-144 & W1M-WA-143
	68.32	50	100	0.11	PRAIRIE LANE HDD	AG	S1M-WA-147
	68.34	200	140	0.64	PRAIRIE LANE HDD	AG	S1M-WA-153
	68.90	25	300	0.17	NORFOLK SOUTHERN RAILROAD HDD (NORTH)	FO	
	68.90	25	300	0.17	NORFOLK SOUTHERN RAILROAD HDD	OP	S1M-WA-147
	69.25	50	70	0.08	NORFOLK SOUTHERN RAILROAD HDD	AG	
	69.26	165	325	1.23	NORFOLK SOUTHERN RAILROAD HDD	AG	
	71.04	15	100	0.03	CR 83 CROSSING	FO	
	71.60	50	300	0.34	STATE HIGHWAY 3 HDD	AG	
	71.95	50	300	0.34	STATE HIGHWAY 3 HDD	AG	
	75.78	15	120	0.04	STREAM CROSSING	FO/OP	
	76.26	15	150	0.05	STREAM CROSSING	FO	
	76.64	50	300	0.34	US HIGHWAY 30 HDD	AG	
	76.95	50	150	0.17	US HIGHWAY 30 HDD	AG	
	76.97	145	235	0.78	US HIGHWAY 30 HDD	FO	S1TB-WA-116
	82.65	65	300	0.45	COUNTY ROAD 1675 HDD	FO/OP	
	83.57	15	75	0.03	STREAM CROSSING	OP	
	83.63	15	150	0.05	STREAM CROSSING	OP	
	84.87	15	150	0.05	CR 1575 CROSSING	FO	W7H-AS-105
	86.20	15	120	0.04	CR 655 CROSSING	OP/FO	
	86.43	15	390	0.13	PRIVATE RD CROSSING (2)	OP/FO	S4H-AS-391
	89.91	15	100	0.03	CR 995 / TELEPHONE CABLE CROSSING	FO	
	90.18	15	145	0.05	PRIVATE ROAD CROSSING	FO/OP	
	91.65	240	300	1.65	INTERSTATE 71 HDD	AG	
	91.90	50	150	0.17	INTERSTATE 71 HDD	AG	
	91.92	200	145	0.67	INTERSTATE 71 HDD	AG	
	91.98	50	1115	1.28	FALSE ROW - INTERSTATE 71 HDD	AG/FO	
	93.39	15	715	0.25	STREAM CROSSING	FO/AG	S1H-AS-131

**TABLE 1A-3**  
**Additional Temporary Workspace Requirements**

Segment	Approx. MP	Dimensions (feet)		Acres	Reason for ATWS	Land Use <sup>1</sup>	Within 50 feet of Wetland or Waterbody <sup>2</sup>
		Width	Length				
Mainlines A and B	93.80	15	210	0.07	CREEK CROSSING	AG/FO	
	93.86	15	215	0.07	CREEK CROSSING	AG/FO	
	94.38	50	300	0.34	US HIGHWAY 42 HDD	AG	
	94.72	50	215	0.25	US HIGHWAY 42 HDD	FO/AG	
	94.74	75	190	0.33	US HIGHWAY 42 HDD	AG	W4H-AS-120
	94.90	75	1530	2.63	FALSE ROW - US HIGHWAY 42 HDD	AG/FO	W4H-AS-121
	95.46	50	300	0.34	BLACK FORK MOCHICAN RIVER HDD	AG	
	95.73	135	300	0.93	BLACK FORK MOCHICAN RIVER HDD	AG	W4H-RI-130/131
	98.31	15	100	0.03	CR 257 CROSSING	FO	
	98.93	15	275	0.09	WETLANDS / STREAM CROSSING	FO	
	99.03	15	140	0.05	WETLANDS CROSSING	FO	
	100.57	15	100	0.03	CR 259 CROSSING	FO/OP	
	100.79	15	70	0.02	STREAM CROSSING	FO	
	100.83	15	110	0.04	STREAM CROSSING	FO	
	101.10	15	105	0.04	ST HWY 13 CROSSING	OP	
	102.46	15	150	0.05	WETLANDS / STREAM CROSSING	FO/OP	
	102.58	15	195	0.07	WETLANDS / STREAM CROSSING	FO/OP	
	109.05	15	105	0.04	STREAM CROSSING	OP	
	109.10	15	90	0.03	STREAM CROSSING	OP	
	127.37	15	116	0.04	BRILLHART RD CROSSING	FO	
	135.29	80	230	0.42	COUNTY ROAD 12 HDD	AG	W7H-SE-219
	135.31	50	150	0.17	COUNTY ROAD 12 HDD	AG	W7H-SE-219
	135.57	50	300	0.34	COUNTY ROAD 12 HDD	AG	
	135.74	205	590	2.78	FALSE ROW - CR 12 HDD	AG	
	140.36	50	300	0.34	HONEY CREEK HDD	AG	
	140.63	50	300	0.34	HONEY CREEK HDD	AG	
	142.08	50	300	0.34	SANDUSKY RIVER HDD	AG	
	142.41	50	300	0.34	SANDUSKY RIVER HDD	AG	
	146.80	15	30	0.01	CR 7 CROSSING	FO	
	151.53	15	200	0.07	WOLF CREEK CROSSING	FO	
	169.55	50	300	0.34	INTERSTATE 75 HDD / CR 603 / CR 604 / TELEPHONE CABLE	AG	
	170.23	50	300	0.34	INTERSTATE 75 HDD / CR 603 / CR 604 / TELEPHONE CABLE	AG	

**TABLE 1A-3**  
**Additional Temporary Workspace Requirements**

Segment	Approx. MP	Dimensions (feet)		Acres	Reason for ATWS	Land Use <sup>1</sup>	Within 50 feet of Wetland or Waterbody <sup>2</sup>
		Width	Length				
Mainlines A and B	190.33	50	300	0.34	ST HWY 109 HDD / NORFOLK SOUTHERN RAILROAD HDD / WATERBODY / STREAM CROSSING	AG	
	190.85	50	300	0.34	ST HWY 109 HDD / NORFOLK SOUTHERN RAILROAD HDD / WATERBODY / STREAM CROSSING	AG	
	196.91	50	300	0.34	WADE CREEK & COUNTY ROAD 15 HDD	AG	
	197.20	50	300	0.34	WADE CREEK & COUNTY ROAD 15 HDD	AG	
	200.22	50	300	0.34	MAUMEE RIVER HDD	AG	
	200.69	50	300	0.34	MAUMEE RIVER HDD	AG	
Mainline A	204.56	25	295	0.17	US HWY 24 CROSSING	AG	
	204.58	25	110	0.06	US HWY 24 CROSSING	AG	
	204.67	25	265	0.15	US HWY 24 CROSSING	AG	
	204.68	25	450	0.26	US HWY 24 CROSSING	AG	
<b>Subtotal: Mainlines A and B</b>				<b>36.51</b>			
Market Segment	2.92	25	505	0.29	CR 166 CROSSING	FO	W4H-DF-229
	42.74	25	235	0.13	WOLF CREEK CROSSING	OP	
	43.08	25	150	0.09	US HWY 223 CROSSING	FO/OP	
	53.20	25	100	0.06	MUNGER RD CROSSING	FO	
	55.35	25	375	0.22	SERVICE RD / WISNER HWY CROSSING	FO	
	56.80	50	300	0.34	HUDSON LAKE HDD	AG	
	57.21	25	300	0.17	HUDSON LAKE HDD (NORTH)	AG/FO	
	57.21	25	300	0.17	HUDSON LAKE HDD	AG	
	60.58	60	150	0.21	CROSSOVER / WETLAND CROSSING	AG	W2K-WA-167
	61.50	60	280	0.39	CROSSOVER	FO/OP	
	61.87	50	240	0.28	FALSE ROW - STATE ROAD 52 HDD	AG/OP	
	62.17	60	225	0.31	STATE ROAD 52 HDD	FO	
	62.77	10	80	0.02	STATE ROAD 52 HDD	FO/OP	
	62.78	65	115	0.17	STATE ROAD 52 HDD	FO	
	62.80	190	220	0.96	STATE ROAD 52 HDD	FO	
	62.81	25	200	0.11	STATE ROAD 52 HDD	FO	
	64.62	25	150	0.09	BEMIS RD CROSSING	FO	
	65.34	25	145	0.08	EISMAN ROAD CROSSING	FO	
	70.96	60	200	0.28	CROSSOVER	AG/FO	
	71.48	25	150	0.09	SCIO CHURCH ROAD CROSSING	FO	

**TABLE 1A-3**  
**Additional Temporary Workspace Requirements**

Segment	Approx. MP	Dimensions (feet)		Acres	Reason for ATWS	Land Use <sup>1</sup>	Within 50 feet of Wetland or Waterbody <sup>2</sup>
		Width	Length				
Market Segment	73.70	60	500	0.69	CROSSOVER	AG/OP/FO	S5K-WA-182 & W5K-WA-183
	79.23	10	315	0.07	PI 90deg	OP	
	81.49	25	150	0.09	QUIGLEY RD CROSSING	FO/OP	S1M-WA-211
	82.76	20	190	0.09	CROSSOVER	OP/FO	W5K-WA-265
	83.18	25	150	0.09	DEXTER TOWN HALL ROAD	FO	
	83.23	25	150	0.09	DEXTER TOWN HALL ROAD	FO	
	84.61	75	205	0.35	TIPLADY RD HDD	FO	
	85.63	25	300	0.17	CR D32 HDD	OP/AG	
	85.63	25	300	0.17	CR D32 HDD	OP/AG	
	86.16	75	550	0.95	CR D32 HDD / DELAPP LN HDD	OP/FO	
	86.51	25	300	0.17	DELAPP LN HDD	FO	W5K-LI-249
	86.51	50	300	0.34	DELAPP LN HDD	FO	
	86.69	50	725	0.83	FALSE ROW - DE LAPP LN HDD	FO	
	86.88	25	140	0.08	MOWER RD CROSSING	OP/AG	
	86.93	25	150	0.09	MOWER RD CROSSING	OP	
	87.14	45	345	0.36	CROSSOVER	FO/OP	W2K-LI-238
	87.67	40	180	0.17	CROSSOVER	AG	
	88.30	25	150	0.09	CEDAR LAKE RD CROSSING	OP/FO	
	88.34	25	150	0.09	CEDAR LAKE RD CROSSING	OP	
	88.49	25	150	0.09	ACACIA TRAIL CROSSING	OP	
	88.53	25	150	0.09	ACACIA TRAIL CROSSING	OP	
	89.52	60	150	0.21	CROSSOVER	OP/FO	
	89.68	60	150	0.21	CROSSOVER	AG	
	90.96	25	150	0.09	SPEARS RD CROSSING	OP/FO	
	91.00	25	150	0.09	SPEARS RD CROSSING	OP/FO	
	91.98	25	150	0.09	BURGESS RD CROSSING	FO/AG	
	93.32	25	150	0.09	W SCHAFFER RD CROSSING	FO	
	93.36	25	150	0.09	W SCHAFFER RD CROSSING	FO	
	94.46	50	370	0.42	FALSE ROW - LAKE AT VINES RD HDD	OP/FO	
	94.76	50	300	0.34	LAKE AT VINES RD HDD	OP/FO/AG	W2K-LI-248/258
	94.76	25	300	0.17	LAKE AT VINES RD HDD	OP/FO/AG	W2K-LI-248/258 & S2K-LI-249
Market Segment	95.12	75	250	0.43	LAKE AT VINES RD HDD	FO	W2K-LI-251

**TABLE 1A-3**  
**Additional Temporary Workspace Requirements**

Segment	Approx. MP	Dimensions (feet)		Acres	Reason for ATWS	Land Use <sup>1</sup>	Within 50 feet of Wetland or Waterbody <sup>2</sup>
		Width	Length				
Market Segment	95.30	25	135	0.08	CROSSOVER	OP	
	95.39	25	150	0.09	VINES RD CROSSING	FO/OP	
	95.43	25	125	0.07	VINES RD CROSSING	FO/OP	
	96.80	50	325	0.37	JEWELL RD HDD	AG	
	97.48	25	150	0.09	JEWELL RD HDD	OP	
	97.49	25	150	0.09	JEWELL RD HDD	OP/FO	W5K-LI-269
	97.73	50	2465	2.83	FALSE ROW - JEWELL RD HDD	AG/FO	W5K-LI-269
	98.03	25	150	0.09	WEST LANGE RD CROSSING	OP	W2K-LI-253
	98.06	25	150	0.09	WEST LANGE RD CROSSING	OP	W2K-LI-254
	102.37	25	270	0.15	INTERSTATE 96 HDD	OP	W5K-LI-151/150
	102.37	50	225	0.26	INTERSTATE 96 HDD	OP	W5K-LI-151/150
	102.92	25	300	0.17	INTERSTATE 96 HDD	OP	W5K-LI-255
	103.21	50	3195	3.67	FALSE ROW - INTERSTATE 96 HDD	AG/FO/OP	W5K-LI-255
	106.16	25	150	0.09	W. ALLEN RD CROSSING	FO	
	106.20	25	150	0.09	W. ALLEN RD CROSSING	FO	
	107.20	25	150	0.09	W. CHASE LAKE RD CROSSING	OP/FO	
	108.09	25	300	0.17	SPRAGUE CREEK HDD (EAST)	OP	W5K-LI-163
	108.09	25	300	0.17	SPRAGUE CREEK HDD	OP	
	108.96	50	295	0.34	SPRAGUE CREEK HDD	FO/AG	W6K-LI-115
	108.97	75	185	0.32	SPRAGUE CREEK HDD	AG	
	109.76	25	150	0.09	WEST HAYNER RD CROSSING	FO	
	109.79	25	145	0.08	WEST HAYNER RD / WETLAND CROSSING	FO	W6K-LI-116
	115.29	25	150	0.09	BEARD RD CROSSING	OP	W5K-SH-166
	115.34	25	195	0.11	BEARD RD CROSSING	OP	W5K-SH-167
	116.39	25	150	0.09	BATH RD CROSSING	OP	
	116.43	25	150	0.09	BATH RD CROSSING	AG	W1ST-SH-109
	117.51	25	220	0.13	SHIAWASSEE RIVER CROSSING	FO/OP	S5K-SH-171
	123.14	60	100	0.14	CROSSOVER	AG	
	124.53	60	100	0.14	CROSSOVER	AG	
	127.39	25	150	0.09	HOGAN RD CROSSING	OP	W2K-GE-277
	128.22	25	150	0.09	SHARP RD CROSSING	AG	
	128.26	25	130	0.07	SHARP RD CROSSING	FO	

**TABLE 1A-3**  
**Additional Temporary Workspace Requirements**

Segment	Approx. MP	Dimensions (feet)		Acres	Reason for ATWS	Land Use <sup>1</sup>	Within 50 feet of Wetland or Waterbody <sup>2</sup>
		Width	Length				
Market Segment	129.36	25	150	0.09	LINDEN RD CROSSING	OP	
	130.88	25	150	0.09	JENNINGS RD CROSSING	FO	
	130.93	25	150	0.09	JENNINGS RD CROSSING	AG	
	131.39	25	150	0.09	US HWY 23 CROSSING	FO	
	131.46	25	150	0.09	US HWY 23 CROSSING	FO	
	133.46	60	330	0.45	CROSSOVER	AG	
	137.25	25	150	0.09	N. HOLLY RD CROSSING	FO	
	137.28	25	75	0.04	N. HOLLY RD CROSSING	FO	W2K-OA-291
	137.55	25	150	0.09	RAILROAD CROSSING	OP/FO	
	139.10	25	150	0.09	I-75 CROSSING	FO	W5K-OA-191
	139.11	25	150	0.09	I-75 CROSSING	FO	W5K-OA-191
	139.18	25	320	0.18	I-75 CROSSING	OP/FO	
	139.19	25	300	0.17	I-75 CROSSING	OP/FO	
	139.30	25	170	0.1	I-75 CROSSING	FO	
	139.59	25	155	0.09	DIXIE HWY CROSSING	FO/OP	W5K-OA-276
	139.63	25	140	0.08	DIXIE HWY CROSSING	OP	
	140.38	25	130	0.07	VASSAR RD CROSSING	FO	
	142.09	25	120	0.07	HORTON RD CROSSING	OP/FO	
	142.12	25	75	0.04	HORTON RD CROSSING	OP	
	142.64	25	120	0.07	GALE RD CROSSING	FO/OP	W2K-GE-295
	142.67	25	150	0.09	GALE RD CROSSING	OP	
	142.96	60	300	0.41	CROSSOVER	AG	S2K-GE-294
	145.61	25	165	0.09	STATE HWY 15 CROSSING	OP/FO	
	145.65	25	135	0.08	STATE HWY 15 CROSSING	OP	
	146.72	25	150	0.09	KIPP RD CROSSING	OP/FO	
	146.76	25	150	0.09	KIPP RD CROSSING	OP/FO	
	148.36	50	300	0.34	HEGEL ROAD LAKE HDD	AG	
	148.64	50	195	0.22	HAGEL ROAD LAKE HDD	AG	
	148.66	30	200	0.14	HEGEL ROAD LAKE HDD	AG	
	148.75	25	150	0.09	HEGEL RD CROSSING	OP	
	149.19	35	100	0.08	CROSSOVER		
	149.45	25	150	0.09	FOREIGN PIPELINE / CONSUMERS ENERGY PIPELINE CROSSING	FO	

**TABLE 1A-3**  
**Additional Temporary Workspace Requirements**

Segment	Approx. MP	Dimensions (feet)		Acres	Reason for ATWS	Land Use <sup>1</sup>	Within 50 feet of Wetland or Waterbody <sup>2</sup>
		Width	Length				
Market Segment	149.52	25	370	0.21	WASHBORN RD / FOREIGN PIPELINE / CONSUMERS ENERGY PIPELINE CROSSING	FO/OP	
	151.10	25	150	0.09	PRIVATE ROAD CROSSING	OP	
	152.77	60	80	0.11	CROSSOVER	AG	
	153.15	25	75	0.04	PRIVATE ROAD / WETLAND CROSSING	OP/AG	
	153.19	25	155	0.09	PRIVATE ROAD CROSSING	OP	W2TB-LA-365
	153.80	25	145	0.08	DIEHL RD CROSSING	FO	
	153.84	25	145	0.08	DIEHL RD CROSSING	FO/OP	
	154.70	35	255	0.2	CROSSOVER	FO/AG	
	154.98	25	145	0.08	HERD RD CROSSING	FO	
	155.02	25	160	0.09	HERD RD CROSSING	FO/OP	
	155.59	25	150	0.09	PRATT RD CROSSING	FO	
	155.64	25	150	0.09	PRATT RD CROSSING	FO/OP	
	156.27	25	100	0.06	FARMERS CREEK RD CROSSING	OP	
	157.26	25	125	0.07	BALDWIN RD CROSSING	OP	W2TB-LA-324
	159.39	25	145	0.08	CLARK RD CROSSING	OP/FO	
	159.84	25	150	0.09	METAMORA ROAD CROSSING	OP	
	161.07	25	100	0.06	PRIVATE ROAD CROSSING	AG/FO	
	161.09	25	100	0.06	PRIVATE ROAD CROSSING	FO	
	161.80	35	150	0.12	CROSSOVER	FO	
	163.35	25	150	0.09	S 5 LAKES RD CROSSING	OP	
	164.22	35	150	0.12	CROSSOVER	OP/FO	
	164.60	25	100	0.06	MILLER RD CROSSING	FO	
	165.34	25	100	0.06	LAKE GEORGE RD CROSSING	FO/OP	
	165.37	25	100	0.06	LAKE GEORGE RD CROSSING	FO/OP	
	166.64	25	300	0.17	HUNTERS CREEK HDD	FO/OP	
	166.64	25	300	0.17	HUNTERS CREEK HDD	FO/OP	
	166.92	50	245	0.28	HUNTERS CREEK HDD	OP/FO	
	167.38	25	145	0.08	E HUNTERS CREEK RD CROSSING	OP	
	167.41	25	150	0.09	E HUNTERS CREEK RD CROSSING	FO	W2B-LA-339
	167.99	25	100	0.06	ATWELL RD CROSSING	FO	W2TB-LA-322/335A
	168.98	25	150	0.09	WINSLOW RD CROSSING	OP	
	171.04	25	150	0.09	WETLAND / S. BLACKS COMERS RD CROSSING	OP	W2B-LA-347/348

**TABLE 1A-3**  
**Additional Temporary Workspace Requirements**

Segment	Approx. MP	Dimensions (feet)		Acres	Reason for ATWS	Land Use <sup>1</sup>	Within 50 feet of Wetland or Waterbody <sup>2</sup>
		Width	Length				
	171.08	25	180	0.1	S. BLACKS COMERS RD CROSSING	OP	W2K-LA-368
	171.65	25	100	0.06	S. FAIRGROUNDS RD CROSSING	OP/FO	
	171.88	25	150	0.09	S VAN DYKE RD CROSSING	FO	
	171.93	50	100	0.11	S VAN DYKE RD CROSSING	FO	W2K-LA-319 & S2K-LA-318
	172.37	70	220	0.35	FOREIGN PIPELINES CROSSING	AG	
	173.42	70	255	0.41	BOWMAN RD / FOREIGN PIPELINES CROSSING	AG	
	173.98	70	230	0.37	FOREIGN PIPELINES CROSSING	AG	
	174.36	45	330	0.34	FOREIGN PIPELINES CROSSING	AG/FO	
	182.47	60	155	0.21	CROSSOVER	AG	
	182.92	60	130	0.18	CROSSOVER	AG	
	183.95	65	115	0.17	CROSSOVER	AG	
	192.23	50	295	0.34	KRONNER ROAD HDD	AG	W2TB-MA-384
	192.68	50	300	0.34	KRONNER ROAD HDD	AG	
	193.07	50	640	0.73	FALSE ROW - KRONNER ROAD HDD	AG	
	195.38	25	95	0.05	PRIVATE ROAD CROSSING	FO	
	195.41	25	100	0.06	PRIVATE ROAD CROSSING	OP/FO	
	195.96	25	290	0.17	CROSSOVER	AG	
	200.28	25	380	0.22	TOPSOIL SEGREGATION	OP/FO	W1K-SC-219
	200.40	25	150	0.09	TRUMBLE RD CROSSING	OP/FO	
	200.45	25	150	0.09	TRUMBLE RD CROSSING	FO	
	200.69	25	100	0.06	MAYER RD CROSSING	OP/FO	
	200.72	25	100	0.06	MAYER RD CROSSING	FO	
	202.33	65	190	0.28	CROSSOVER	AG	
	206.21	70	165	0.27	CROSSOVER	AG/FO	
	208.41	25	150	0.09	PRIVATE ROAD / RAILROAD CROSSING	FO/OP	
	208.46	25	150	0.09	PRIVATE ROAD / RAILROAD CROSSING	OP	
	209.20	25	300	0.17	ST CLAIR HDD	OP/AG	
	209.20	50	300	0.34	ST CLAIR HDD	FO	
<b>Subtotal: Market Segment</b>				<b>35.41</b>			
<b>Total</b>				<b>327.58</b>			

<sup>1</sup> OP = Open, FO = Forest; AG = Agriculture



**TABLE 1A-4**  
**Permanent and Temporary Access Roads**

Pipeline Segment	Access Road ID	MP	County, State	Temp / Perm	Existing / New	Existing Surface/Land <sup>1</sup> Type	Length (ft)	Estimated Width(ft)	Estimated Acres
Sherwood Lateral	WV-DO-SHC-001.970-PAR-1	0.00	Doddridge, WV	Perm	New	FO	475	100	1.09
	WV-DO-SHC-006.970-TAR-1	0.51	Doddridge, WV	Temp	Existing	Gravel	5,279	15	1.82
	WV-DO-SHC-011.970-TAR-2	1.01	Doddridge, WV	Temp	Existing	Dirt	3,885	15	1.34
	WV-DO-SHC-015.970-TAR-3	1.97	Doddridge, WV	Temp	Existing	Gravel	4,814	10	1.11
	WV-DO-SHC-019.970-TAR-4	3.36	Doddridge, WV	Temp	New	FO/OP	992	10	0.23
					Existing	Dirt	2,122	8	0.39
	WV-DO-SHC-021.970-TAR-5	3.54	Doddridge, WV	Temp	Existing	Dirt	5,904	10	1.36
	WV-DO-SHC-021.971-TAR-6	3.86	Doddridge, WV	Temp	New	FO	180	10	0.04
					Existing	Gravel	6,990	10	1.6
	WV-DO-SHC-024.970-TAR-7	4.33	Doddridge, WV	Temp	Existing	Gravel	1,498	9	0.31
	WV-DO-SHC-029.970-TAR-8	5.02	Doddridge, WV	Temp	Existing	Gravel	2,384	12	0.66
	WV-DO-SHC-030.970-TAR-9	5.25	Doddridge, WV	Temp	Existing	Dirt	1,439	12	0.4
	WV-DO-SHC-040.970-TAR-10	6.86	Doddridge, WV	Temp	Existing	Rock	2,060	10	0.47
	WV-DO-SHC-043.970-TAR-10A	7.47	Doddridge, WV	Temp	New	FO/OP	2,735	10	0.63
	WV-DO-SHC-048.970-TAR-10B	8.61	Doddridge, WV	Temp	New	OP/FO	689	10	0.16
	WV-TY-SHC-002.970-TAR-11	9.15	Tyler, WV	Temp	New	FO	437	10	0.1
	WV-TY-SHC-005.970-TAR-12	9.64	Tyler, WV	Temp	New	FO/OP	190	10	0.04
					Existing	Gravel	824	10	0.19
	WV-TY-SHC-006.970-TAR-13	9.91	Tyler, WV	Temp	Existing	Gravel	543	10	0.12
	WV-TY-SHC-009.970-TAR-14	10.24	Tyler, WV	Temp	Existing	Dirt	635	7	0.1
	WV-TY-SHC-011.970-TAR-15	10.66	Tyler, WV	Temp	Existing	Gravel	835	10	0.19
	WV-TY-SHC-014.970-TAR-16	11.37	Tyler, WV	Temp	Existing	Gravel	460	10	0.11
	WV-TY-SHC-016.970-TAR-16A	11.83	Tyler, WV	Temp	Existing	Gravel	333	10	0.08
	WV-TY-SHC-017.970-TAR-17	11.98	Tyler, WV	Temp	Existing	Rock	1,519	8	0.28
	WV-TY-SHC-018.970-TAR-17A	12.36	Tyler, WV	Temp	Existing	Gravel	3,240	10	0.74
	WV-TY-SHC-019.970-TAR-18	12.77	Tyler, WV	Temp	New	FO	660	15	0.23
					Existing	Rock	1,800	8	0.33
	WV-TY-SHC-024.970-TAR-20	13.50	Tyler, WV	Temp	Existing	Gravel	643	10	0.15
	WV-TY-SHC-026.970-TAR-21	13.68	Tyler, WV	Temp	Existing	Gravel	404	10	0.09
	WV-TY-SHC-026.970-TAR-21A	13.80	Tyler, WV	Temp	Existing	Dirt	1,602	12	0.44
	WV-TY-SHC-026.971-TAR-21B	13.98	Tyler, WV	Temp	Existing	Dirt	4,065	15	1.4
	WV-TY-SHC-027.970-TAR-22	14.40	Tyler, WV	Temp	Existing	Dirt	885	10	0.2

**TABLE 1A-4**  
**Permanent and Temporary Access Roads**

Pipeline Segment	Access Road ID	MP	County, State	Temp / Perm	Existing / New	Existing Surface/Land <sup>1</sup> Type	Length (ft)	Estimated Width(ft)	Estimated Acres
Sherwood Lateral	WV-TY-SHC-028.970-TAR-22A	14.79	Tyler, WV	Temp	Existing	Dirt	3,688	10	0.85
	WV-TY-SHC-030.970-TAR-23	15.21	Tyler, WV	Temp	New	FO/OP	3,102	10	0.71
					Existing	Dirt	3,102	10	0.71
	WV-TY-SHC-030.971-TAR-24	15.61	Tyler, WV	Temp	Existing	Dirt	813	10	0.19
	WV-TY-SHC-036.970-PAR-34A	16.55	Tyler, WV	Perm	New	FO/OP	144	20	0.07
	WV-TY-SHC-039.970-TAR-25	16.96	Tyler, WV	Temp	Existing	Dirt	3,220	8	0.59
	WV-TY-SHC-042.970-TAR-25A	17.60	Tyler, WV	Temp	Existing	Dirt	382	10	0.09
	WV-TY-SHC-043.970-TAR-25B	17.93	Tyler, WV	Temp	New	OP	786	10	0.18
					Existing	FO/OP	198	10	0.05
	WV-TY-SHC-045.970-TAR-25C	18.43	Tyler, WV	Temp	Existing	Dirt	654	15	0.23
	WV-TY-SHC-045.970-TAR-26	18.66	Tyler, WV	Temp	Existing	Gravel	4,773	12	1.31
	WV-TY-SHC-047.970-TAR-26A	18.82	Tyler, WV	Temp	Existing	Dirt	490	15	0.17
	WV-TY-SHC-054.970-TAR-27	20.38	Tyler, WV	Temp	New	OP/FO	1,100	10	0.25
					Existing	Dirt	2,282	10	0.52
	WV-TY-SHC-058.970-TAR-27A	20.73	Tyler, WV	Temp	Existing	Gravel	4,388	12	1.21
	WV-TY-SHC-060.970-TAR-28	22.21	Tyler, WV	Temp	Existing	Dirt	6,880	10	1.58
	WV-TY-SHC-065.970-TAR-28A	22.36	Tyler, WV	Temp	New	FO/OP	250	10	0.06
					Existing	Gravel	1,217	12	0.34
	WV-TY-SHC-066.970-TAR-29	22.59	Tyler, WV	Temp	New	OP/FO	383	10	0.09
					Existing	Dirt	3,437	14	1.1
	WV-TY-SHC-069.970-TAR-30	23.68	Tyler, WV	Temp	Existing	Dirt	6,176	8	1.13
	WV-TY-SHC-075.970-TAR-30A	25.59	Tyler, WV	Temp	New	FO	582	10	0.13
	WV-TY-SHC-075.971-TAR-30B	25.76	Tyler, WV	Temp	Existing	TBD	4,468	10	1.03
	WV-TY-SHC-080.970-TAR-30C	26.77	Tyler, WV	Temp	New	FO/OP	300	10	0.07
					Existing	Dirt	2,249	8	0.41
	WV-TY-SHC-088.970-TAR-31	28.02	Tyler, WV	Temp	Existing	Gravel	3,729	10	0.86
	WV-TY-SHC-089.970-TAR-31A	28.40	Tyler, WV	Temp	Existing	Gravel	658	10	0.15
	WV-TY-SHC-094.970-PAR-32	29.14	Tyler, WV	Perm	New	FO/OP	1,020	20	0.47
					Existing	Dirt	1,135	12	0.31
	WV-TY-SHC-097.970-TAR-32A	29.41	Tyler, WV	Temp	New	OP	140	10	0.03
					Existing	Gravel	354	12	0.1
	WV-TY-SHC-099.970-TAR-32B	29.78	Tyler, WV	Temp	New	FO	1,756	10	0.4
					Existing	TBD	1,967	10	0.45

**TABLE 1A-4**  
**Permanent and Temporary Access Roads**

Pipeline Segment	Access Road ID	MP	County, State	Temp / Perm	Existing / New	Existing Surface/Land <sup>1</sup> Type	Length (ft)	Estimated Width(ft)	Estimated Acres
Sherwood Lateral	WV-TY-SHC-100.970-TAR-32C	30.12	Tyler, WV	Temp	Existing	Dirt	2,127	10	0.49
	WV-TY-SHC-105.970-TAR-33	30.82	Tyler, WV	Temp	Existing	Dirt	1,363	8	0.25
	WV-TY-SHC-106.970-TAR-33A	31.17	Tyler, WV	Temp	Existing	Gravel	1,206	8	0.22
	WV-TY-SHC-110.970-TAR-33B	31.73	Tyler, WV	Temp	New	FO	3,021	10	0.69
					Existing	TBD	1,020	10	0.23
	OH-MO-SHC-006.970-PAR-34	35.34	Monroe, OH	Perm	New	FO/OP	356	20	0.16
					Existing	Gravel	125	10	0.03
	OH-MO-SHC-014.970-TAR-34A	36.18	Monroe, OH	Temp	New	FO	100	10	0.02
					Existing	Dirt	311	10	0.07
	OH-MO-SHC-017.970-TAR-34B	36.47	Monroe, OH	Temp	New	OP	497	10	0.11
					Existing	FO	1,140	10	0.26
	OH-MO-SHC-031.970-TAR-34C	38.38	Monroe, OH	Temp	New	OP	1,095	10	0.25
					Existing	TBD	890	10	0.2
	OH-MO-SHC-033.970-TAR-34D	38.94	Monroe, OH	Temp	New	OP	750	10	0.17
					Existing	TBD	1,387	10	0.32
	OH-MO-SHC-036.970-TAR-34E	39.74	Monroe, OH	Temp	New	FO/OP	1,065	10	0.24
	OH-MO-SHC-040.970-TAR-35	40.63	Monroe, OH	Temp	Existing	Gravel	400	10	0.09
	OH-MO-SHC-046.970-TAR-36	41.93	Monroe, OH	Temp	Existing	Gravel	2,978	6	0.41
	OH-MO-SHC-048.971-PAR-38	42.56	Monroe, OH	Perm	New	OP/AG	700	20	0.32
					Existing	TBD	2,079	20	0.95
	OH-MO-SHC-058.970-TAR-39A	44.54	Monroe, OH	Temp	New	OP/FO	1,762	10	0.4
	OH-MO-SHC-066.970-TAR-40	46.62	Monroe, OH	Temp	Existing	Asphalt	1,389	15	0.48
	OH-MO-SHC-066.970-TAR-40A	47.14	Monroe, OH	Temp	New	OP/AG	897	10	0.21
					Existing	TBD	245	10	0.06
	OH-MO-SHC-066.971-TAR-41A	47.75	Monroe, OH	Temp	New	OP/AG	1,242	10	0.29
					Existing	TBD	1,452	10	0.33
	OH-MO-SHC-066.971-TAR-41	49.64	Monroe, OH	Temp	New	OP/FO	210	10	0.05
					Existing	Dirt	1,102	20	0.51
	OH-MO-SHC-079.970-TAR-42	50.39	Monroe, OH	Temp	Existing	Gravel	793	15	0.27
	OH-MO-SHC-083.970-TAR-43	51.87	Monroe, OH	Temp	Existing	Dirt	1,959	12	0.54

**TABLE 1A-4**  
**Permanent and Temporary Access Roads**

Pipeline Segment	Access Road ID	MP	County, State	Temp / Perm	Existing / New	Existing Surface/Land <sup>1</sup> Type	Length (ft)	Estimated Width(ft)	Estimated Acres
CGT Lateral	WV-DO-SHB-001.970-PAR-1	0.00	Doddridge, WV	Perm	New	FO	125	20	0.06
	WV-DO-SHB-001.970-TAR-1	0.07	Doddridge, WV	Temp	Existing	Dirt	1,936	12	0.53
	WV-DO-SHB-009.970-TAR-1A	0.83	Doddridge, WV	Temp	Existing	Dirt	4,565	15	1.57
	WV-DO-SHB-010.970-TAR-2	1.02	Doddridge, WV	Temp	Existing	Dirt	3,467	20	1.59
					New	OP/FO	400	10	0.09
	WV-DO-SHB-013.970-TAR-3	2.32	Doddridge, WV	Temp	Existing	Gravel	5,293	10	1.22
	WV-DO-SHB-017.970-TAR-3A	3.05	Doddridge, WV	Temp	Existing	Gravel	5,427	12	1.49
	WV-DO-SHB-021.970-TAR-4	4.09	Doddridge, WV	Temp	Existing	Gravel	2,175	9	0.45
Seneca Lateral	WV-DO-SHB-026.970-TAR-5	5.08	Doddridge, WV	Temp	Existing	Gravel	1,294	15	0.45
					New	OP/FO	165	10	0.04
	OH-NO-SCL-001.970-PAR-1	0.00	Noble, OH	Perm	New	FO	300	20	0.14
	OH-NO-SCL-010.970-TAR-0A	1.33	Noble, OH	Temp	New	OP	2,529	10	0.58
					Existing	Dirt	210	10	0.05
	OH-MO-SCL-002.970-TAR-0B	1.95	Monroe, OH	Temp	New	OP	1,822	10	0.42
	OH-MO-SCL-008.970-TAR-1	2.83	Monroe, OH	Temp	New	OP/FP	430	12	0.12
					Existing	Gravel	1,207	12	0.33
	OH-MO-SCL-015.970-TAR-1A	4.37	Monroe, OH	Temp	Existing	Gravel	645	8	0.12
					Existing	Gravel	1,951	8	0.36
	OH-MO-SCL-017.970-TAR-2	5.06	Monroe, OH	Temp	Existing	Gravel	2,346	15	0.81
	OH-MO-SCL-019.970-TAR-3	5.64	Monroe, OH	Temp	Existing	Gravel	923	10	0.21
	OH-MO-SCL-021.970-TAR-3A	5.91	Monroe, OH	Temp	Existing	Gravel	1,080	10	0.25
	OH-MO-SCL-027.970-TAR-4	6.28	Monroe, OH	Temp	Existing	Gravel	1,906	8	0.35
	OH-MO-SCL-038.970-TAR-5	8.20	Monroe, OH	Temp	Existing	Dirt	3,286	6	0.45
	OH-MO-SCL-040.970-TAR-6	8.35	Monroe, OH	Temp	Existing	Gravel	1,571	10	0.36
	OH-MO-SCL-041.970-TAR-7	8.62	Monroe, OH	Temp	Existing	Dirt	1,175	9	0.24
	OH-MO-SCL-045.970-TAR-7A	9.83	Monroe, OH	Temp	New	OP	846	10	0.19
					Existing	Gravel	963	10	0.22
	OH-MO-SCL-049.970-TAR-7B	10.61	Monroe, OH	Temp	New	AG/FO	1,933	10	0.44
					Existing	Dirt	1,131	25	0.65
	OH-MO-SCL-055.970-TAR-8	11.96	Monroe, OH	Temp	Existing	Gravel	391	12	0.11
	OH-MO-SCL-058.970-TAR-9	12.65	Monroe, OH	Temp	Existing	Dirt	1,471	15	0.51
	OH-MO-SCL-058.971-TAR-10	12.80	Monroe, OH	Temp	New	FO/OP	140	10	0.03
					Existing	Dirt	1,273	15	0.44

**TABLE 1A-4**  
**Permanent and Temporary Access Roads**

Pipeline Segment	Access Road ID	MP	County, State	Temp / Perm	Existing / New	Existing Surface/Land <sup>1</sup> Type	Length (ft)	Estimated Width(ft)	Estimated Acres
Seneca Lateral	OH-MO-SCL-067.970-TAR-10A	13.90	Monroe, OH	Temp	New	AG/FO/OP	2,028	10	0.47
					Existing	TBD	1,521	10	0.35
	OH-MO-SCL-081.970-TAR-11	15.52	Monroe, OH	Temp	Existing	Gravel	4,868	8	0.89
	OH-MO-SCL-087.970-TAR-11A	16.83	Monroe, OH	Temp	Existing	Dirt	976	15	0.34
	OH-MO-SCL-091.970-TAR-12	17.55	Monroe, OH	Temp	Existing	Dirt	1,020	15	0.35
	OH-MO-SCL-102.970-TAR-13	19.42	Monroe, OH	Temp	Existing	Dirt	3,909	15	1.35
	OH-MO-SCL-104.970-TAR-14	19.64	Monroe, OH	Temp	Existing	Dirt	1,215	12	0.33
	OH-MO-SCL-106.970-TAR-15	20.12	Monroe, OH	Temp	Existing	Gravel	2,029	10	0.47
	OH-MO-SCL-109.970-TAR-16	20.89	Monroe, OH	Temp	Existing	Dirt	3,080	15	1.06
					New	AG/FO/OP	1,661	10	0.38
	OH-MO-SCL-110.970-TAR-16A	21.25	Monroe, OH	Temp	Existing	Dirt	920	10	0.21
					New	FO/OP	710	10	0.16
	OH-MO-SCL-116.970-TAR-17	22.15	Monroe, OH	Temp	Existing	Gravel	1,498	9	0.31
					New	OP	1,367	10	0.31
	OH-MO-SCL-118.970-TAR-17A	22.60	Monroe, OH	Temp	Existing	Dirt	150	10	0.03
					New	OP/FO	1,776	10	0.41
	OH-MO-SCL-126.970-TAR-18	23.94	Monroe, OH	Temp	Existing	Dirt	878	10	0.2
	OH-MO-SCL-127.970-TAR-19	24.29	Monroe, OH	Temp	Existing	Dirt	832	12	0.23
	OH-MO-SCL-130.970-TAR-19A	24.99	Monroe, OH	Temp	Existing	Asphalt	381	10	0.09
	OH-MO-SCL-130.970-TAR-20	25.19	Monroe, OH	Temp	Existing	Asphalt	835	15	0.29
	OH-MO-SCL-131.970-TAR-21	25.60	Monroe, OH	Temp	Existing	Asphalt	835	15	0.29
Berne Lateral	None Proposed	--	--	--	--	--	--	--	0.0
Clarington Lateral	OH-MO-CC-004.970-TAR-1	0.68	Monroe, OH	Temp	Existing	Gravel	1,912	12	0.53
	OH-BE-CC-003.970-TAR-2	1.58	Belmont, OH	Temp	Existing	Gravel	10,165	10	2.33
	OH-BE-CC-020.970-TAR-3	4.72	Belmont, OH	Temp	Existing	Gravel	677	8	0.12
	OH-BE-CC-021.970-TAR-4	4.87	Belmont, OH	Temp	Existing	Gravel	3,353	12	0.92
	OH-BE-CC-022.970-TAR-5	5.11	Belmont, OH	Temp	Existing	Dirt	520	8	0.1
	OH-BE-CC-024.970-TAR-6	5.58	Belmont, OH	Temp	Existing	TBD	9,236	10	2.12
	OH-BE-CC-043.970-TAR-6A	7.96	Belmont, OH	Temp	Existing	Gravel	176	8	0.03
	OH-BE-CC-045.970-TAR-7	8.63	Belmont, OH	Temp	Existing	Gravel	413	10	0.09
	OH-BE-CC-048.970-TAR-8	9.40	Belmont, OH	Temp	Existing	Dirt	847	10	0.19
	OH-BE-CC-049.970-TAR-9	9.92	Belmont, OH	Temp	Existing	Dirt	2,837	12	0.78
	OH-BE-CC-049.971-TAR-10	10.39	Belmont, OH	Temp	Existing	Dirt	748	12	0.21
	OH-BE-CC-049.972-TAR-11	10.46	Belmont, OH	Temp	Existing	Gravel	1,157	8	0.21

**TABLE 1A-4**  
**Permanent and Temporary Access Roads**

Pipeline Segment	Access Road ID	MP	County, State	Temp / Perm	Existing / New	Existing Surface/Land <sup>1</sup> Type	Length (ft)	Estimated Width(ft)	Estimated Acres
Clarington Lateral	OH-BE-CC-057.970-TAR-12	11.19	Belmont, OH	Temp	Existing	Gravel	906	6	0.12
	OH-BE-ML-076.970-PAR-1	11.75	Belmont, OH	Perm	New	OP/FO	325	20	0.15
	OH-BE-CC-063.970-TAR-13	12.96	Belmont, OH	Temp	Existing	Asphalt	1,001	8	0.18
	OH-BE-CC-069.970-TAR-13A	14.23	Belmont, OH	Temp	New	OP/FO	2,771	10	0.64
	OH-BE-CC-075.970-TAR-13B	15.44	Belmont, OH	Temp	Existing	TBD	2,538	10	0.58
	OH-BE-CC-080.970-TAR-14	16.29	Belmont, OH	Temp	Existing	Gravel	4,074	10	0.94
	OH-BE-CC-092.970-TAR-14A	17.75	Belmont, OH	Temp	Existing	Asphalt	2,212	15	0.76
					New	OP/FO	235	10	0.05
	OH-BE-CC-100.970-TAR-14B	18.40	Belmont, OH	Temp	Existing	Gravel	2,078	10	0.48
	OH-BE-CC-107.970-TAR-14C	19.07	Belmont, OH	Temp	Existing	Gravel	1,272	10	0.29
	OH-BE-CC-113.970-TAR-14D	20.40	Belmont, OH	Temp	Existing	TBD	1,911	10	0.44
	OH-BE-CC-118.970-PAR-15	21.57	Belmont, OH	Perm	Existing	Gravel	1,474	6	0.2
					New	OP/FO	159	20	0.07
	OH-BE-CC-127.970-TAR-16	22.27	Belmont, OH	Temp	Existing	Gravel	689	6	0.09
	OH-BE-CC-131.970-TAR-16A	23.31	Belmont, OH	Temp	Existing	Gravel	1,328	10	0.3
	OH-BE-CC-136.970-TAR-17	24.15	Belmont, OH	Temp	Existing	Dirt	2,468	12	0.68
	OH-BE-CC-139.970-TAR-18	24.67	Belmont, OH	Temp	Existing	Gravel	3,239	16	1.19
	OH-BE-CC-143.970-TAR-19	25.95	Belmont, OH	Temp	Existing	Gravel	4,019	25	2.31
	OH-HA-CC-004.970-TAR-19A	27.36	Harrison, OH	Temp	Existing	Gravel	2,360	20	1.08
	OH-HA-CC-008.970-TAR-19B	28.05	Harrison, OH	Temp	New	OP	1,425	10	0.33
	OH-HA-CC-020.970-TAR-19C	30.31	Harrison, OH	Temp	Existing	Dirt	963	10	0.22
	OH-HA-CC-021.970-TAR-20	30.72	Harrison, OH	Temp	Existing	Gravel	1,064	6	0.15
	OH-HA-CC-022.970-TAR-21	31.06	Harrison, OH	Temp	Existing	Gravel	1,900	8	0.35
	OH-HA-CC-024.970-TAR-22	31.48	Harrison, OH	Temp	Existing	Gravel	1,423	8	0.26
Majorsville Lateral	WV-MA-ML-001.970-PAR-1	0.00	Marshall, OH	Perm	New	FO	1,200	100	2.75
	WV-MA-ML-011.970-PAR-1D	1.42	Marshall, OH	Perm	Existing	Gravel	2,260	15	0.78
	WV-MA-ML-013.970-TAR-2	1.64	Marshall, OH	Temp	Existing	Gravel	1,631	15	0.56
	WV-MA-ML-014.970-TAR-2A	1.96	Marshall, OH	Temp	Existing	TBD	4,561	10	1.05
	WV-MA-ML-018.970-TAR-2B	2.62	Marshall, OH	Temp	Existing	Dirt	4,204	10	0.97
	WV-MA-ML-024.970-TAR-3	4.31	Marshall, OH	Temp	Existing	Gravel	612	10	0.14
	WV-MA-ML-029.970-TAR-4	4.95	Marshall, OH	Temp	Existing	TBD	5,973	10	1.37
	WV-MA-ML-030.970-TAR-5	6.11	Marshall, OH	Temp	Existing	Asphalt	1,518	10	0.35
					New	OP	130	10	0.03

**TABLE 1A-4**  
**Permanent and Temporary Access Roads**

Pipeline Segment	Access Road ID	MP	County, State	Temp / Perm	Existing / New	Existing Surface/Land <sup>1</sup> Type	Length (ft)	Estimated Width(ft)	Estimated Acres
Majorsville Lateral	WV-MA-ML-037.970-TAR-6	6.98	Marshall, OH	Temp	Existing	Gravel	1,445	12	0.4
	WV-MA-ML-039.970-TAR-6A	7.55	Marshall, OH	Temp	Existing	TBD	1,543	10	0.35
					New	OP	400	10	0.09
	WV-MA-ML-043.970-TAR-6B	8.30	Marshall, OH	Temp	Existing	TBD	5,352	10	1.23
	WV-MA-ML-043.971-TAR-6C	8.50	Marshall, OH	Temp	Existing	TBD	2,081	10	0.48
	WV-MA-ML-044.970-TAR-6D	8.71	Marshall, OH	Temp	Existing	Gravel	3,970	12	1.09
	WV-MA-ML-053.970-TAR-7	10.13	Marshall, OH	Temp	Existing	Gravel	2,999	10	0.69
					New	OP/FO	315	10	0.07
	WV-MA-ML-055.970-PAR-7AA	10.63	Marshall, OH	Temp	Existing	TBD	1,071	20	0.49
					New	OP/FO	195	20	0.09
	OH-BE-ML-001.970-TAR-7A	12.49	Belmont, OH	Temp	Existing	TBD	1,290	10	0.3
					New	FO/OP	300	10	0.07
	OH-BE-ML-015.970-TAR-7B	13.11	Belmont, OH	Temp	New	FO	588	10	0.14
	OH-BE-ML-016.970-TAR-8	13.32	Belmont, OH	Temp	Existing	Gravel	440	10	0.1
	OH-BE-ML-025.970-PAR-9	14.07	Belmont, OH	Perm	Existing	Dirt	789	6	0.11
	OH-BE-ML-029.970-TAR-10	14.45	Belmont, OH	Temp	Existing	Gravel	602	10	0.14
	OH-BE-ML-032.970-TAR-11	14.73	Belmont, OH	Temp	Existing	Gravel	128	10	0.03
	OH-BE-ML-043.971-TAR-13	17.29	Belmont, OH	Temp	Existing	Dirt	1,818	12	0.5
	OH-BE-ML-043.970-TAR-12	17.69	Belmont, OH	Temp	Existing	Dirt	746	8	0.14
	OH-BE-ML-045.970-TAR-14	17.94	Belmont, OH	Temp	Existing	Gravel	3,481	18	1.44
	OH-BE-ML-047.970-TAR-15	18.29	Belmont, OH	Temp	Existing	Gravel	3,518	8	0.65
	OH-BE-ML-048.970-TAR-16	18.78	Belmont, OH	Temp	Existing	Gravel	3,540	15	1.22
	OH-BE-ML-049.970-TAR-17	18.97	Belmont, OH	Temp	Existing	Gravel	1,902	10	0.44
	OH-BE-ML-057.970-TAR-18	20.64	Belmont, OH	Temp	Existing	Dirt	1,552	12	0.43
					New	FO/OP	85	10	0.02
	OH-BE-ML-062.970-TAR-19	21.72	Belmont, OH	Temp	Existing	Dirt	2,184	10	0.5
Cadiz Lateral	OH-HA-MC-002.970-PAR-1A	0.00	Harrison, OH	Perm	New	OP	1,050	100	2.41
	OH-HA-MC-002.970-TAR-1A	0.00	Harrison, OH	Temp	Existing	Dirt	945	15	0.33
					New	OP	1,876	10	0.43
	OH-HA-MC-003.970-TAR-1	0.43	Harrison, OH	Temp	Existing	Dirt	2,664	7	0.43



**TABLE 1A-4**  
**Permanent and Temporary Access Roads**

Pipeline Segment	Access Road ID	MP	County, State	Temp / Perm	Existing / New	Existing Surface/Land <sup>1</sup> Type	Length (ft)	Estimated Width(ft)	Estimated Acres
Supply Connector Lines A and B	OH-HR-003.000-PAR-1	0.00	Harrison, OH	Perm	New	AG	205	20	0.09
	OH-HR-004.000-TAR-1	0.34	Harrison, OH	Temp	Existing	Gravel	1,972	20	0.91
	OH-HR-009.000-TAR-2	2.78	Harrison, OH	Temp	Existing	Gravel	568	15	0.2
	OH-HR-019.000-TAR-3	6.43	Harrison, OH	Temp	Existing	Dirt	302	20	0.14
	OH-HR-022.000-TAR-4	7.14	Harrison, OH	Temp	Existing	Dirt	445	15	0.15
	OH-HR-029.000-PAR-2	10.08	Harrison, OH	Perm	Existing	Rock	895	25	0.51
					New	AG	93	20	0.04
	OH-HR-035.000-TAR-5	12.32	Harrison, OH	Temp	Existing	Gravel	528	15	0.18
	OH-HR-042.545-TAR-6	14.93	Harrison, OH	Temp	Existing	Dirt	582	15	0.2
	OH-HR-042.570-TAR-7	15.81	Harrison, OH	Temp	New	OP	107	10	0.02
Burgettstown Lateral	PA-WA-032.000-PAR-1	0.00	Washington, PA	Perm	New	OP	716	20	0.33
	PA-WA-044.000-TAR-1	3.50	Washington, PA	Temp	Existing	Gravel	900	12	0.25
	PA-WA-003.000-TAR-2	4.72	Washington, PA	Temp	Existing	TBD	894	10	0.21
	WV-HA-009.000-PAR-2	12.56	Hancock, WV	Perm	New	OP	216	20	0.1
	WV-HA-016.210-TAR-3	14.95	Hancock, WV	Temp	Existing	Asphalt	394	8	0.07
	OH-JE-008.520-TAR-4	16.11	Jefferson, OH	Temp	Existing	Gravel	74	15	0.03
	OH-JE-010.000-TAR-5	17.26	Jefferson, OH	Temp	Existing	Dirt	2,333	8	0.43
	OH-JE-011.000-PAR-3	17.97	Jefferson, OH	Perm	New	FO	2,273	20	1.04
	OH-JE-012.000-TAR-6	18.15	Jefferson, OH	Temp	Existing	TBD	261	10	0.06
	OH-JE-017.000-TAR-7	18.91	Jefferson, OH	Temp	Existing	Dirt	1,472	8	0.27
	OH-JE-042.000-TAR-8	22.24	Jefferson, OH	Temp	Existing	Gravel	2,913	20	1.34
	OH-JE-052.000-TAR-9	24.76	Jefferson, OH	Temp	Existing	TBD	2,316	10	0.53
	OH-JE-079.000-TAR-10	29.53	Jefferson, OH	Temp	Existing	Dirt	950	10	0.22
	OH-JE-086.200-TAR-11	31.23	Jefferson, OH	Temp	Existing	Dirt	1,916	10	0.44
	OH-JE-096.510-TAR-12	33.78	Jefferson, OH	Temp	Existing	TBD	1,433	10	0.33
	OH-JE-098.000-PAR-4	35.08	Jefferson, OH	Perm	New	FO	97	20	0.04
	OH-CA-004.000-TAR-13	36.41	Carroll, OH	Temp	Existing	Gravel	620	6	0.09
	OH-CA-010.000-TAR-14	36.82	Carroll, OH	Temp	Existing	TBD	760	10	0.17
	OH-CA-012.000-TAR-15	37.91	Carroll, OH	Temp	Existing	Gravel	1,419	15	0.49
	OH-CA-035.000-PAR-5	43.09	Carroll, OH	Perm	New	OP	93	20	0.04
	OH-CA-049.000-TAR-16	45.76	Carroll, OH	Temp	Existing	Gravel	1,159	15	0.4
	OH-CA-083.000-TAR-17	50.71	Carroll, OH	Temp	Existing	Gravel	236	8	0.04
	OH-CA-085.000-TAR-18	51.15	Carroll, OH	Temp	Existing	TBD	74	10	0.02



**TABLE 1A-4**  
**Permanent and Temporary Access Roads**

Pipeline Segment	Access Road ID	MP	County, State	Temp / Perm	Existing / New	Existing Surface/Land <sup>1</sup> Type	Length (ft)	Estimated Width(ft)	Estimated Acres
Burgettstown Lateral	OH-CA-085.000-TAR-19	51.18	Carroll, OH	Temp	Existing	Gravel	302	8	0.06
Burgettstown Lateral	OH-CA-HL-085.970-PAR-1	51.29	Carroll, OH	Perm	New	OP	25	20	0.01
<b>Subtotal: Supply Laterals</b>									<b>115.71</b>
Mainlines A and B	OH-CA-001.000-PAR-3	18.92	Carroll, OH	Perm	New	AG	293	20	0.13
	OH-CA-022.000-TAR-9	22.38	Carroll, OH	Temp	Existing	Gravel	733	15	0.25
	OH-TU-027.000-TAR-11	32.29	Tuscarawas, OH	Temp	Existing	Gravel	1,734	15	0.6
	OH-TU-039.530-PAR-4	36.82	Tuscarawas, OH	Perm	New	AG	238	20	0.11
	OH-ST-007.000-TAR-12	39.25	Stark, OH	Temp	Existing	Asphalt	629	30	0.43
	OH-ST-018.000-TAR-7	42.56	Stark, OH	Temp	New	AG/OP	375	10	0.09
	OH-ST-045.000-PAR-5	49.96	Stark, OH	Perm	New	AG	248	20	0.11
	OH-WA-037.000-PAR-6	61.19	Wayne, OH	Perm	Existing	Dirt	145	15	0.05
					New	OP	236	20	0.11
	OH-WA-077.000-PAR-7	72.51	Wayne, OH	Perm	New	AG	257	20	0.12
	OH-WA-099.000-PAR-8	77.37	Wayne, OH	Perm	New	AG	388	20	0.18
	OH-AS-040.000-PAR-9	90.92	Ashland, OH	Perm	New	AG	278	20	0.13
	OH-AS-043.000-TAR-13	91.65	Ashland, OH	Temp	New	AG	589	10	0.14
	OH-RI-024.000-PAR-10	102.10	Richland, OH	Perm	New	AG	242	20	0.11
	OH-CR-015.000-PAR-11	118.35	Crawford, OH	Perm	New	AG	245	20	0.11
	OH-CR-044.000-TAR-8	125.95	Crawford, OH	Temp	New	AG	1,257	10	0.29
	OH-CR-054.000-PAR-12	128.26	Crawford, OH	Perm	New	AG	242	20	0.11
	OH-SE-057.000-PAR-13	144.31	Seneca, OH	Perm	New	AG	237	20	0.11
	OH-HA-012.000-PAR-14	157.56	Hancock, OH	Perm	New	AG	244	20	0.11
	OH-WO-055.000-PAR-15	174.16	Wood, OH	Perm	New	AG	255	20	0.12
	OH-HE-024.000-PAR-16	189.78	Henry, OH	Perm	New	AG	268	20	0.12
	OH-DE-004.000-PAR-17	202.07	Defiance, OH	Perm	New	AG	229	20	0.11
	OH-DE-032.000-PAR-18	208.92	Defiance, OH	Perm	Existing	Rock	77	20	0.04
					New	AG/OP	250	20	0.11
Mainline A	OH-DE-035.000-PAR-19	209.40	Defiance, OH	Perm	New	AG	322	20	0.15
<b>Subtotal: Mainlines A and B</b>									<b>3.94</b>
Market Segment	OH-FU-022.000-PAR-1	17.16	Fulton, OH	Perm	New	AG	241	20	0.11
	MI-LE-018.000-PAR-2	30.64	Lenawee, MI	Perm	New	AG	109	20	0.05
	MI-LE-047.000-TAR-1	38.02	Lenawee, MI	Temp	Existing	Dirt	1,231	10	0.28
	MI-LE-096.000-TAR-2	47.51	Lenawee, MI	Temp	Existing	Gravel	3,489	12	0.96

**TABLE 1A-4**  
**Permanent and Temporary Access Roads**

Pipeline Segment	Access Road ID	MP	County, State	Temp / Perm	Existing / New	Existing Surface/Land <sup>1</sup> Type	Length (ft)	Estimated Width(ft)	Estimated Acres
Market Segment	MI-LE-100.000-PAR-3	48.98	Lenawee, MI	Perm	New	AG	110	20	0.05
	MI-LE-123.000-TAR-3	54.37	Lenawee, MI	Temp	Existing	Dirt	1,302	10	0.3
	MI-WA-014.000-PAR-4	58.83	Washtenaw, MI	Perm	New	OP/FO	109	20	0.05
	MI-WA-052.000-TAR-5	66.70	Washtenaw, MI	Temp	Existing	Dirt	2,223	15	0.77
	MI-WA-056.000-TAR-6	67.47	Washtenaw, MI	Temp	Existing	Dirt	549	20	0.25
	MI-WA-056.000-PAR-5	67.87	Washtenaw, MI	Perm	New	AG	21	75	0.04
	MI-WA-089.520-TAR-7	74.57	Washtenaw, MI	Temp	Existing	Gravel	385	10	0.09
					New	FO/AG	155	10	0.04
	MI-WA-094.540-TAR-8	76.50	Washtenaw, MI	Temp	New	AG	448	10	0.1
	MI-WA-108.000-PAR-6	80.46	Washtenaw, MI	Perm	New	AG	121	20	0.06
	MI-LI-013.500-TAR-9	86.79	Livingston, MI	Temp	Existing	Gravel	442	10	0.1
	MI-LI-022.520-PAR-7	87.85	Livingston, MI	Perm	New	FO/OP	110	20	0.05
	MI-LI-025.500-TAR-10	89.22	Livingston, MI	Temp	Existing	Gravel	1,382	10	0.32
	MI-LI-059.000-TAR-11	94.45	Livingston, MI	Temp	New	FO/OP	1,018	10	0.23
	MI-LI-082.000-PAR-8	98.70	Livingston, MI	Perm	New	AG	86	20	0.04
	MI-LI-328.000-PAR-9	104.06	Livingston, MI	Perm	New	OP	71	20	0.03
	MI-SH-004.970-PAR-1	113.70	Shiawassee, MI	Perm	New	AG	150	75	0.26
	MI-SH-009.000-TAR-12	114.86	Shiawassee, MI	Temp	New	AG/OP	1,200	10	0.28
	MI-SH-035.000-TAR-13	119.77	Shiawassee, MI	Temp	Existing	Dirt	100	10	0.02
					New	OP/AG	352	10	0.08
	MI-GE-008.510-TAR-14	123.36	Genesee, MI	Temp	Existing	Dirt	2,387	20	1.1
	MI-GE-015.000-PAR-12	125.09	Genesee, MI	Perm	New	OP/AG	129	20	0.06
	MI-OA-274.000-PAR-13	135.82	Oakland, MI	Perm	New	OP	111	20	0.05
	MI-GE-075.000-PAR-14	142.20	Genesee, MI	Perm	New	OP	469	20	0.22
	MI-LA-020.000-TAR-15	152.33	Lapeer, MI	Temp	Existing	Dirt	728	20	0.33
	MI-LA-047.000-PAR-15	155.61	Lapeer, MI	Perm	New	OP/FO	110	20	0.05
	MI-LA-081.000-TAR-16	161.09	Lapeer, MI	Temp	Existing	Dirt	1,566	12	0.43
	MI-LA-133.000-PAR-16	169.01	Lapeer, MI	Perm	New	OP	109	20	0.05
	MI-LA-170.000-TAR-17	175.27	Lapeer, MI	Temp	Existing	Gravel	1,777	45	1.84
	MI-SC-126.000-PAR-17	181.61	St. Clair, MI	Perm	New	AG/FO	280	20	0.13
	MI-SC-144.000-TAR-18	185.45	St. Clair, MI	Temp	Existing	Dirt	1,328	10	0.3
	MI-MA-092.000-TAR-19	187.49	Macomb, MI	Temp	Existing	Dirt	1,403	10	0.32
	MI-SC-153.000-PAR-18	193.24	St. Clair, MI	Perm	New	AG	110	20	0.05

**TABLE 1A-4**  
**Permanent and Temporary Access Roads**

Pipeline Segment	Access Road ID	MP	County, State	Temp / Perm	Existing / New	Existing Surface/Land <sup>1</sup> Type	Length (ft)	Estimated Width(ft)	Estimated Acres
Market Segment	MI-SC-123.000-TAR-20	195.40	St. Clair, MI	Temp	Existing	TBD	575	10	0.13
Market Segment	MI-SC-200.000-PAR-19	198.39	St. Clair, MI	Perm	New	OP	152	20	0.07
Market Segment	MI-SC-097.500-PAR-20	205.93	St. Clair, MI	Perm	New	AG	132	20	0.06
<b>Subtotal: Mainlines A and B</b>									<b>9.75</b>
<b>Total</b>									<b>129.40</b>
<sup>1</sup> OP = Open, FO = Forest; AG = Agriculture PAR = Permanent Access Road TAR = Temporary Access Road									

**TABLE 1A-5  
Contractor Storage Yards**

Pipeline Segment	Contractor Yard Name	Location	County	State	Size (Acres)	Land Use
<b>Supply Laterals:</b>						
Sherwood Lateral	Sherwood	Adjacent to MP 13.5	Tyler	WV	17.95	Open
Seneca Lateral	Seneca	Near MP 4.0	Monroe	OH	8.61	Open
Majorsville Lateral	Majorsville	Approximately 1 mile north of MP 12.0	Marshall	WV	38.99	Previously disturbed
Clarrington Lateral	Clarrington	Approximately 0.4 mile east of MP 28.0	Harrison	OH	47.99	Open/Woodland
Burgettstown Lateral	Burgettstown	Approximately 2.7 miles south of MP 24.0	Jefferson	OH	199.97	Open
<b>Mainlines:</b>						
Mainlines A and B	Dennison	Approximately 6.3 miles west of MP 15.5	Tuscarawas	OH	61.59	Open/Some agricultural
	Dover	Approximately 10.1 miles west of MP 25.0	Tuscarawas	OH	21.79	Previously disturbed
	Ashland	Approximately 3.25 miles north of MP 86.0	Ashland	OH	21.29	Previously disturbed
	Mansfield	Approximately 2.2 miles south of MP 100.0	Richland	OH	22.99	Previously disturbed
	Bucyrus	Approximately 9.4 miles southeast of MP 121.0	Crawford	OH	66.81	Open
	Defiance	Approximately 3.3 miles south of MP 209.0	Defiance	OH	23.65	Industrial
Market Segment	Oakville 1	Approximately 24.7 miles east of MP 55.6	Monroe	MI	15.53	Industrial
	Oakville 1	Approximately 24.7 miles east of MP 55.6	Monroe	MI	3.69	Industrial
	Oakville 1	Approximately 24.7 miles east of MP 55.6	Monroe	MI	24.48	Industrial
	Whitmore	Approximately 9.7 miles east of MP 85.0	Livingston	MI	15.53	Industrial
	Groveland	Approximately 6.1 miles south of MP 141.5	Oakland	MI	31.11	Open
	Romeo	Approximately 9.1 miles southwest of MP 185.5	Macomb	MI	30.7	Previously disturbed
<b>Total</b>					<b>652.67</b>	

**TABLE 1A-6**  
**Hydrostatic Test Water Source and Discharge Locations**

Proposed Hydrotest Test Sections						Water Source	Water Discharge
Pipeline Segment	Test Section #	Begin MP	End MP	Length (miles)	Quantity of Test Water (gals)		
PIPELINES							
Supply Laterals							
Sherwood Lateral	S-1	0.00*	1.39*	2.44	649,180	Englands Run	Englands Run
	S-2	1.39	1.80	0.41	109,084		
	S-3	1.80	5.77	3.97	1,056,248		
	S-4	5.77	9.02	3.25	864,687	Nutter Fork	Nutter Fork
	S-5	9.02	12.01	2.99	795,512		
	S-6	12.01	14.83	2.82	750,282	Purgatory Run	Purgatory Run
	S-7	14.83	21.97	7.14	1,899,651		
	S-8	21.97	25.73	3.76	1,000,376	Middle Island Creek	Middle Island Creek
	S-9	25.73*	35.31*	9.58	2,716,447	Ohio River	Ohio River
	S-10	35.31	37.54	2.23	593,308		
	S-11	37.54	40.00	2.46	654,501	Tubaugh Lake	Tubaugh Lake
	S-12	40.00	48.12	8.12	2,160,387		
	S-13	48.12	49.74	1.62	431,013	Sunfish Creek	Sunfish Creek
	S-14	49.74	52.36	2.62	697,071		
CGT Lateral	C-1	0.00	5.68	5.68	685,057	Flint Run	Flint Run
Seneca Lateral	S-1	0.00	4.54	4.54	1,644,222	South Fork Creek	South Fork Creek
	S-2	4.54	25.63	21.09	7,931,379		
Berne Lateral	B-1	0.00	3.69	3.69	468,475	Clear Fork Little Muskingum River	Clear Fork Little Muskingum River

**TABLE 1A-6**  
**Hydrostatic Test Water Source and Discharge Locations**

Proposed Hydrotest Test Sections						Water Source	Water Discharge
Pipeline Segment	Test Section #	Begin MP	End MP	Length (miles)	Quantity of Test Water (gals)		
Clarrington Lateral	C-1	0.00	0.93	0.93	336,812	Cat Run	Cat Run
	C-2	0.93	1.92	0.99	358,542		
	C-3	1.92	3.97	2.05	742,435	Pea Vine Creek	Pea Vine Creek
	C-4	3.97*	7.24*	3.29	1,191,518		
	C-5	7.24	15.81	8.57	3,103,740	McMahon Creek	McMahon Creek
	C-6	15.81	32.63	16.82	6,138,670		
Majorsville Lateral	M-1	0.00*	12.13*	12.44	1,464,280	Ohio River	Ohio River
	M-2	12.13	23.55	11.42	1,344,218		
Cadiz Lateral	C-1	0.00	2.94	2.94	536,820	Brushy Fork	Brushy Fork
Supply Connector Lines A and B	1-1	0	7.08	7.08	5,128,242**	Clear Fork	Clear Fork
	1-2	7.08	18.76	11.68	8,460,151**		
Burgettstown Lateral	B-1	0.00	29.00	29.00	7,715,667	Goose Creek	Goose Creek
	B-2	29.00	51.29	22.29	5,930,422		
Mainlines							
Mainlines A and B	2-1	18.76	26.87	8.11	5,874,300**	Conotton Creek	Conotton Creek
	2-2	26.87	39.89	13.02	9,430,751**		
	3-1	39.89	68.20	28.31	20,505,726**	Lake @ Prairie Lane Road	Lake @ Prairie Lane Road
	3-2	68.20	77.23	9.03	6,540,682**		
	4-1	77.23	95.67	18.44	13,356,608**	Black Fork River	Black Fork River
	4-2	95.67	128.06	32.39	23,460,984**		
	5-1	128.06	142.36	14.30	10,357,890**	Sandusky River	Sandusky River
	5-2	142.36	170.39	28.03	20,302,914**		
	6-1	170.39	200.54	30.15	21,838,489**	Maumee River	Maumee River
	6-2	200.54	209.39	9.02	6,410,302**		

**TABLE 1A-6**  
**Hydrostatic Test Water Source and Discharge Locations**

Proposed Hydrotest Test Sections						Water Source	Water Discharge
Pipeline Segment	Test Section #	Begin MP	End MP	Length (miles)	Quantity of Test Water (gals)		
Market Segment	7-1	0	27.80	27.80	10,068,159	Municipal Town of Moenci, MI	On ROW
	7-2	27.80	56.60	28.80	10,430,323		
	8-1	56.60	77.40	20.80	7,533,011	Fourmile Lake	Fourmile Lake
	8-2	77.40	102.41	25.01	9,057,722		
	9-1	102.41	117.50	15.09	5,465,055	Shiawasee River	Shiawasee River
	9-2	117.50	152.79	35.29	12,780,768		
	10-1	152.79	171.90	19.11	6,920,954	Municipal Imlay City, MI	On ROW
	10-2	171.90	209.89	37.99	13,758,610		
HORIZONTAL DIRECTIONAL DRILLS							
Sherwood Lateral							
Road / Middle Island Creek HDD	--	12.98	13.35	0.36	93,534	Purgatory Run	Purgatory Run
Middle Island Creek HDD	--	23.67	24.17	0.50	144,838	Middle Island Creek	Middle Island Creek
Ohio River HDD	--	33.80	35.00	1.21	312,433	Municipal	On ROW - Exit Side
Clarington Lateral							
Captina Creek HDD	--	6.02	6.35	0.33	123,907	Municipal	On ROW - Exit Side
Interstate 70 HDD	--	18.91	18.45	0.45	159,996	Municipal	On ROW - Exit Side
Majorsville Lateral							
Ohio River HDD	--	11.89	12.39	0.50	53,349	Municipal	On ROW - Exit Side
Burgettstown Lateral							
Golf Course HDD	--	14.51	15.01	0.50	124,581	Municipal	On ROW - Exit Side
Ohio River HDD	--	16.07	15.01	1.06	275,991	Municipal	On ROW - Exit Side

**TABLE 1A-6**  
**Hydrostatic Test Water Source and Discharge Locations**

Proposed Hydrotest Test Sections						Water Source	Water Discharge
Pipeline Segment	Test Section #	Begin MP	End MP	Length (miles)	Quantity of Test Water (gals)		
Mainlines A and B							
HIGHWAY 151 HDD	--	16.77	16.52	0.25	179,110*	Municipal	On ROW - Exit Side
Indian Fork HDD	--	25.56	24.84	0.72	547,623*	Atwood Lake Overflow	Atwood Lake Overflow
Sandy Creek HDD	--	35.65	35.90	0.25	179,110*	Creek @ MP 35.7	Creek @ MP 35.7
I-77 HDD	--	39.57	39.87	0.30	220,413*	Municipal	On ROW - Exit Side
Tuscarawas River HDD	--	42.46	42.03	0.43	316,651*	Tuscarawas River	Tuscarawas River
Stream at HWY 241 HDD	--	53.52	53.15	0.37	219,210*	Municipal	On ROW - Exit Side
Prairie Lane HDD	--	68.33	67.93	0.40	284,572*	Municipal	On ROW - Exit Side
Railroad HDD	--	69.24	68.91	0.33	238,858*	Killbuck Creek	Killbuck Creek
S Columbus Rd HDD	--	71.94	71.60	0.33	235,383*	Municipal	On ROW - Exit Side
US HWY 30 HDD	--	76.96	76.65	0.31	220,546*	Municipal	On ROW - Exit Side
CR1675 HDD	--	82.66	83.33	0.67	473,840*	Municipal	On ROW - Exit Side
I-71 HDD	--	91.66	91.91	0.25	179,511*	Municipal	On ROW - Exit Side
HWY 42 HDD	--	94.39	94.72	0.33	233,913*	Municipal	On ROW - Exit Side
Black Fork HDD	--	95.72	95.46	0.26	180,714*	Black Fork River	Black Fork River
CR12 HDD	--	135.30	135.56	0.26	179,110*	Silver Creek	Silver Creek
Honey Creek HDD	--	140.62	140.37	0.25	179,110*	Honey Creek	Honey Creek
Sandusky River HDD	--	142.40	142.09	0.31	219,210*	Sandusky River	Sandusky River
I-75 HDD	--	170.22	169.56	0.66	465,821*	Municipal	On ROW - Exit Side
State HWY 109 HDD	--	190.34	190.83	0.49	349,666*	Municipal	On ROW - Exit Side
RD15 HDD	--	197.19	196.92	0.27	195,016*	Wade Creek	Wade Creek
Maumee River HDD	--	200.68	200.23	0.45	318,121*	Maumee River	Maumee River



**TABLE 1A-6**  
**Hydrostatic Test Water Source and Discharge Locations**

Proposed Hydrotest Test Sections						Water Source	Water Discharge
Pipeline Segment	Test Section #	Begin MP	End MP	Length (miles)	Quantity of Test Water (gals)		
Market Segment							
Hudson Lake HDD	--	56.82	57.19	0.37	129,721	Municipal	On ROW - Exit Side
State Road 52 HDD	--	62.20	62.78	0.58	206,578	Raisin River	Raisin River
Tiplady Road HDD	--	84.62	84.98	0.36	125,845	Silver Lake	Silver Lake
CR D32 HDD	--	85.65	86.13	0.48	166,412	Lake at CR D32	Lake at CR D32
DeLapp Lane HDD	--	86.18	86.50	0.31	110,808	Mill Creek	Mill Creek
Lake at Vines Road HDD	--	95.12	94.77	0.34	121,300	Lake at Vines Rd	Lake at Vines Rd
Jewell Rd HDD	--	96.83	97.48	0.66	231,373	Municipal	On ROW - Exit Side
I-96 HDD	--	102.32	102.90	0.58	185,794	Municipal	On ROW - Exit Side
Sprague Creek HDD	--	108.93	108.10	0.83	291,856	Sprague Creek	Sprague Creek
Hegel Rd Lake HDD	--	148.64	148.38	0.26	90,223	Lake at Hegel Rd	Lake at Hegel Rd
Hunters Creek HDD	--	166.66	166.90	0.25	91,894	Hunters Creek	Hunters Creek
Kronner Rd HDD	--	192.23	192.67	0.44	153,714	Belle River	Belle River
St.Clair HDD	--	209.21	209.88	0.66	233,913	St. Clair River	St. Clair River
CLASS 3 PIPE							
Mainlines A and B							
Class 3 pipe	--	47.69	50.24	2.55	1,825,372*	Sugar Creek	Sugar Creek
Class 3 pipe	--	68.57	72.43	3.86	2,763,112*	Lake @ Prairie Lane Road	Lake @ Prairie Lane Road
Class 3 pipe	--	86.38	87.73	1.35	966,374*	Pond	Pond
Class 3 pipe	--	93.42	95.40	1.98	1,417,348*	Black Fork River	Black Fork River
Class 3 pipe	--	99.60	102.58	2.98	2,133,180*	Pond	Pond
Class 3 pipe	--	126.05	126.09	0.04	28,634*	Municipal	On ROW

**TABLE 1A-6**  
**Hydrostatic Test Water Source and Discharge Locations**

Proposed Hydrotest Test Sections						Water Source	Water Discharge
Pipeline Segment	Test Section #	Begin MP	End MP	Length (miles)	Quantity of Test Water (gals)		
Market Segment							
Class 3 pipe	--	83.19	92.01	8.82	218,093	Silver Lake	Silver Lake
Class 3 pipe	--	138.85	147.72	8.87	183,436	Bloat Lake	Bloat Lake
* Water quantity is for dual pipelines. ROW = Right-of-way							

**TABLE 1A-7**  
**Proposed Horizontal Directional Drill (HDD) Locations**

Spread/Lateral	Crossing Name	Approximate Entry MP	Approximate Exit MP	Total Length (feet)	Cleared Access Path Within HDD
Sherwood Lateral	Middle Island Creek	12.98	13.35	1,907	Yes
	Middle Island Creek	23.67	24.17	2,953	Yes
	Ohio River	33.80	35.00	6,370	No
CGT Lateral	None proposed	--	--	--	--
Seneca Lateral	None proposed	--	--	--	--
Berne Lateral	None proposed	--	--	--	--
Clarington Lateral	Captina Creek	6.02	6.35	1,854	No
	Interstate 70	18.91	18.45	2,394	No
Majorsville Lateral	Ohio River	11.89	12.39	2,461	No
Cadiz Lateral	None proposed	--	--	--	--
Supply Connector Lines A and B	Highway 151	16.77	16.52	1,340	No
Burgettstown Lateral	Golf Course	14.51	15.01	2,540	No
	Ohio River	16.07	15.01	5,627	No
Mainlines A and B	Indian Fork	25.56	24.84	4,097	Yes
	Sandy Creek	35.65	35.90	1,340	Yes
	Interstate 77	39.57	39.87	1,649	No
	Tuscarawas River	42.46	42.03	2,369	Yes
	Tributaries (2) - North Fork Sugar Creek	53.52	53.15	1,640	No
	Prairie Lane	68.33	67.93	2,129	No
	Norfolk Southern Railroad	69.24	68.91	1,787	Yes
	State Highway 3 (Columbus Road)	71.94	71.60	1,761	No
	U.S. Highway 30 (West Lincoln Way)	76.96	76.65	1,650	No
	County Road 1675 / State Route 89	82.66	83.33	3,545	No
	Interstate 71	91.66	91.91	1,343	No
	U.S. Highway 42 / Railroad	94.39	94.72	1,750	No

**TABLE 1A-7  
Proposed Horizontal Directional Drill (HDD) Locations**

Spread/Lateral	Crossing Name	Approximate Entry MP	Approximate Exit MP	Total Length (feet)	Cleared Access Path Within HDD
Mainlines A and B	Black Fork Mohican River	95.72	95.46	1,352	Yes
	County Route 12 / Honey Creek	135.30	135.56	1,340	Yes
	Honey Creek	140.62	140.37	1,340	Yes
	Sandusky River	142.40	142.09	1,640	Yes
	Interstate 75	170.22	169.56	3,485	No
	State Route 109 / S. Fork Turkeyfoot Creek	190.34	190.83	2,616	No
	County Route 15 / Wade Creek	197.19	196.92	1,459	Yes
	Maumee River	200.68	200.23	2,380	Yes
Market Segment	Hudson Lake	56.82	57.19	1,941	No
	State Route 52 (Austin Road)	62.20	62.78	3,091	Yes
	Tiplady Road / Portage River	84.62	84.98	1,883	Yes
	County Route D32 (Patterson Lake Road)	85.65	86.13	2,490	Yes
	DeLapp Lane	86.18	86.50	1,658	Yes
	Lake at Vines Road	95.12	94.77	1,815	Yes
	Marion-Losco Drain (Jewell Road)	96.83	97.48	3,462	No
	Interstate 96	102.32	102.90	2,780	No
	Sprague Creek	108.93	108.10	4,367	Yes
	Hegel Road Lake	148.64	148.38	1,350	Yes
	Hunters Creek Road Wetlands	166.66	166.90	1,375	Yes
	Kronner Road / Belle River	192.23	192.67	2,300	Yes
	River Road / St. Clair River	209.21	209.88	3,500	No

**TABLE 1A-8**  
**Road and Railroad Crossing Methods**

Pipeline Facility	Crossing Name	Approximate MP	Type	Jurisdiction	Crossing Method
Sherwood Lateral	CR 50/34 (SWISHER LN)	0.08	ASPHALT	COUNTY	BORE OR OPEN CUT
	US HWY 50	0.14	ASPHALT	FEDERAL	BORE
	US HWY 50	0.16	ASPHALT	FEDERAL	BORE
	CR 20 (MORGANS RUN RD)	0.24	ASPHALT	COUNTY	BORE OR OPEN CUT
	CR 50/10 (ENGLANDS RUN RD)	1.45	ASPHALT	COUNTY	BORE OR OPEN CUT
	CR 30/3 (JOCKEY CAMP RD)	2.36	ASPHALT	COUNTY	BORE OR OPEN CUT
	CR 5/8 (WELL RD)	4.33	GRAVEL	COUNTY	BORE OR OPEN CUT
	CR 5 (ROCK RUN RD)	4.61	ASPHALT	COUNTY	BORE OR OPEN CUT
	CR 34 (PIGGIN RUN RD)	4.77	GRAVEL	COUNTY	BORE OR OPEN CUT
	CR 28 (NUTTER FORK RD)	5.89	ASPHALT	COUNTY	BORE OR OPEN CUT
	CR 22 (WOLFPEN RUN RD)	7.05	ASPHALT	COUNTY	BORE OR OPEN CUT
	CR 24 (CAMP MISTAKE RD)	8.10	GRAVEL	COUNTY	BORE OR OPEN CUT
	CR 60/2 (SANDY CREEK RD)	9.75	GRAVEL	COUNTY	BORE OR OPEN CUT
	CR 58 (JEFFERSON RUN RD)	10.96	ASPHALT	COUNTY	BORE OR OPEN CUT
	ST HWY 18	13.62	ASPHALT	STATE	BORE
	CR 18/8 (PURGATORY RUN RD)	14.11	GRAVEL	COUNTY	BORE OR OPEN CUT
	CR 30/1 (SANCHO FORK RD)	15.66	GRAVEL	COUNTY	BORE OR OPEN CUT
	CR 30/2 (DAVIS RUN RD)	16.07	ASPHALT	COUNTY	BORE OR OPEN CUT
	CR 30/1 (LAUGH RUN RD)	16.57	GRAVEL	COUNTY	BORE OR OPEN CUT
	CR 7 (MIDDLE BOURNE WICK RD)	18.33	ASPHALT	COUNTY	BORE OR OPEN CUT
	CR 6/3 (LITTLE SANCHO CREEK RD)	19.20	ASPHALT	COUNTY	BORE OR OPEN CUT
	CR 7/10 (SANCHO CREEK RD)	19.44	DIRT	COUNTY	BORE OR OPEN CUT
	CR 10/1 (MARTIN HILL RD)	22.24	ASPHALT	COUNTY	BORE OR OPEN CUT
	CR 10 (ADONIS RIDGE RD)	24.58	GRAVEL	COUNTY	BORE OR OPEN CUT
	CR 4/1 (SMITH RIDGE RD)	26.23	DIRT	COUNTY	BORE OR OPEN CUT
	ST HWY 18 (TYLER HWY)	26.98	ASPHALT	STATE	BORE

**TABLE 1A-8**  
**Road and Railroad Crossing Methods**

Pipeline Facility	Crossing Name	Approximate MP	Type	Jurisdiction	Crossing Method
Sherwood Lateral	CR 18/11 (GREENWOOD RD)	27.26	ASPHALT	COUNTY	BORE OR OPEN CUT
	CR 1/2 (PORTER HILL DR)	28.57	GRAVEL	COUNTY	BORE OR OPEN CUT
	CR 1/3 (STARKEY RIDGE RD)	29.50	GRAVEL	COUNTY	BORE OR OPEN CUT
	CR 1 (BUCK RUN RD)	30.58	ASPHALT	COUNTY	BORE OR OPEN CUT
	CR 1/6 (SLIDER RUN RD)	31.33	GRAVEL	COUNTY	BORE OR OPEN CUT
	CR 1/4 (GABLE RD)	32.16 (EQUATION)	ASPHALT	COUNTY	BORE OR OPEN CUT
	CR 26 (VAN CAMP PADEN FORK ROAD)	32.53 (EQUATION)	ASPHALT	COUNTY	BORE OR OPEN CUT
	DUTCH RUN RD	33.65 (EQUATION)	GRAVEL	COUNTY	BORE OR OPEN CUT
	ST HWY 2 (VINE STREET)	33.88 (EQUATION)	ASPHALT	STATE	HDD
	CSX RAILROAD	33.91 (EQUATION)	RAILROAD	RAILROAD	HDD
	ST HWY 7 (OHIO RIVER SCENIC BYWAY)	34.99 (EQUATION)	ASPHALT	STATE	HDD
	TWP 496	35.74	GRAVEL	COUNTY	BORE OR OPEN CUT
	CR 10 (BENWOOD RD)	37.10	ASPHALT	COUNTY	BORE OR OPEN CUT
	TWP 490 (BREY HOLLOW ROAD)	37.44	GRAVEL	COUNTY	BORE OR OPEN CUT
	TWP 493 (MT. OLIVE RD)	37.87	GRAVEL	COUNTY	BORE OR OPEN CUT
	TWP 480 (LENGACHER ROAD)	39.15	GRAVEL	COUNTY	BORE OR OPEN CUT
	TWP 476 (PEA VINE RIDGE RD)	41.14	GRAVEL	COUNTY	BORE OR OPEN CUT
	CR 10 (BENWOOD RD)	41.16	ASPHALT	COUNTY	BORE OR OPEN CUT
	CR 10A (GRIFFITH ROAD)	42.12	ASPHALT	COUNTY	BORE OR OPEN CUT
	ST HWY 255	44.01	ASPHALT	STATE	BORE
	TWP 358 (CRANESNEST CREEK RD)	44.40	ASPHALT	COUNTY	BORE OR OPEN CUT
	CR 28 (BONDI RIDGE RD)	45.47	ASPHALT	COUNTY	BORE OR OPEN CUT
	TWP 8	45.92	GRAVEL	COUNTY	BORE OR OPEN CUT
	ST HWY 78	46.82	ASPHALT	STATE	BORE
	CR 6 (ALTITUDE MILLER HILL RD)	47.50	GRAVEL	COUNTY	BORE OR OPEN CUT
	CR 6 (ALTITUDE MILLER HILL RD)	48.42	GRAVEL	COUNTY	BORE OR OPEN CUT

**TABLE 1A-8**  
**Road and Railroad Crossing Methods**

Pipeline Facility	Crossing Name	Approximate MP	Type	Jurisdiction	Crossing Method
Sherwood Lateral	CR 29 (SUNFISH CREEK RD)	48.68	GRAVEL	COUNTY	BORE OR OPEN CUT
	TWP 151 (HOPTON RD)	49.86	GRAVEL	COUNTY	BORE OR OPEN CUT
	TWP 149	51.01	GRAVEL	COUNTY	BORE OR OPEN CUT
CGT Lateral	CR3 (BIG FLINT ROAD)	5.44	ASPHALT	COUNTY	BORE OR OPEN CUT
	CR 3 / 7	5.63	GRAVEL	COUNTY	BORE OR OPEN CUT
Seneca Lateral	CR 5A (GLADY RD)	0.22	ASPHALT	COUNTY	BORE OR OPEN CUT
	ST HWY 513 (BATESVILLE RD)	0.63	ASPHALT	STATE	BORE
	STATE HWY 78 (WOODSVILLE RD.)	2.11	ASPHALT	FEDERAL	BORE
	CR 239	3.06	GRAVEL	COUNTY	BORE OR OPEN CUT
	STATE HWY 78	3.64	ASPHALT	FEDERAL	BORE
	TWP RD 63	4.80	GRAVEL	COUNTY	BORE OR OPEN CUT
	TWP RD 66	5.28	GRAVEL	COUNTY	BORE OR OPEN CUT
	TWP RD 68	5.74	GRAVEL	COUNTY	BORE OR OPEN CUT
	TWP RD 55	6.72	GRAVEL	COUNTY	BORE OR OPEN CUT
	TWP RD 2351	7.00	GRAVEL	COUNTY	BORE OR OPEN CUT
	CR 18 (LEWISVILLE NORTHERN RD)	7.03	ASPHALT	COUNTY	BORE OR OPEN CUT
	TWP RD 153 (FANTASY LANE)	7.19	GRAVEL	COUNTY	BORE OR OPEN CUT
	CR 61 (EGGER RIDGE RD)	8.87	ASPHALT	COUNTY	BORE OR OPEN CUT
	ST HWY 145	8.93	ASPHALT	STATE	BORE
	ST HWY 145	9.24	ASPHALT	STATE	BORE
	ST HWY 145	9.40	ASPHALT	STATE	BORE
	CR 100 (KEYLOR HILL RD)	10.17	GRAVEL	COUNTY	BORE OR OPEN CUT
	CR 2 (MILTONSBURG-CALAIS RD)	11.11	ASPHALT	COUNTY	BORE OR OPEN CUT
	ST HWY 800	11.61	ASPHALT	STATE	BORE
	TWP RD 664 / TWP 78 (PALTON RD)	12.13	GRAVEL	COUNTY	BORE OR OPEN CUT
	TWP RD 81	12.48	GRAVEL	COUNTY	BORE OR OPEN CUT

**TABLE 1A-8**  
**Road and Railroad Crossing Methods**

Pipeline Facility	Crossing Name	Approximate MP	Type	Jurisdiction	Crossing Method
Seneca Lateral	CR 27 (MOORE RIDGE RD)	13.31	ASPHALT	COUNTY	BORE OR OPEN CUT
	CR 36 (OZARK EDDIE BRIDGE RD)	14.29	ASPHALT	COUNTY	BORE OR OPEN CUT
	ST HWY 26 (HILIGHT RD)	14.86	ASPHALT	STATE	BORE
	CR 1 (KINGS HWY)	16.10	GRAVEL	COUNTY	BORE OR OPEN CUT
	T 124 (TREMBLY RIDGE RD.)	16.67	GRAVEL	COUNTY	BORE OR OPEN CUT
	TWP 1034 / 141 (RUN RD)	17.89	GRAVEL	COUNTY	BORE OR OPEN CUT
	TWP RD 152 (BOLON RIDGE RD)	18.38	GRAVEL	COUNTY	BORE OR OPEN CUT
	CR 31 (MELLOTT RIDGE RD)	18.71	ASPHALT	COUNTY	BORE OR OPEN CUT
	CR 38 (HEADLEY RIDGE RD)	20.38	GRAVEL	COUNTY	BORE OR OPEN CUT
	TWP RD 185 (BROCK RIDGE RD)	21.71	ASPHALT	COUNTY	BORE OR OPEN CUT
	TWP RD 2192	21.88	ASPHALT	COUNTY	BORE OR OPEN CUT
	CR 64 (CAIN RIDGE RD)	22.99	ASPHALT	COUNTY	BORE OR OPEN CUT
	ST HWY 556	23.34	ASPHALT	STATE	BORE
	CR 25 (GERMAN RIDGE RD)	24.41	ASPHALT	COUNTY	BORE OR OPEN CUT
	TWP RD 2166	25.18	ASPHALT	COUNTY	BORE OR OPEN CUT
Berne Lateral	CR 44 (SWAYZE ROAD)	0.08	ASPHALT	COUNTY	BORE OR OPEN CUT
	TWP 234	0.87	GRAVEL	COUNTY	BORE OR OPEN CUT
	ST HWY 78	1.32	ASPHALT	STATE	BORE
	TWP 203 (CEMETARY RD)	2.09	GRAVEL	COUNTY	BORE OR OPEN CUT
	SR 513 (BATESVILLE RD)	3.05	ASPHALT	STATE	BORE
	CR 5A (GLADY RD)	3.46	ASPHALT	COUNTY	BORE OR OPEN CUT
Clarington Lateral	CR 25 (GERMAN RIDGE RD)	0.15	ASPHALT	COUNTY	BORE OR OPEN CUT
	TWP RD 203	1.20	GRAVEL	COUNTY	BORE OR OPEN CUT
	TWP 199 (CAT RUN RD)	1.24	GRAVEL	COUNTY	BORE OR OPEN CUT
	TWP 124 (KANZIGG HILL RD)	2.54	DIRT	COUNTY	BORE OR OPEN CUT
	CR 5 (CLOVER RIDGE ROAD)	3.44	ASPHALT	COUNTY	BORE OR OPEN CUT



**TABLE 1A-8**  
**Road and Railroad Crossing Methods**

Pipeline Facility	Crossing Name	Approximate MP	Type	Jurisdiction	Crossing Method
Clarington Lateral	TWP 106 (E. BROWN PEAVINE RD)	4.08	GRAVEL	COUNTY	BORE OR OPEN CUT
	POV AND CRR COMPANY	6.11	RAILROAD	RAILROAD	BORE
	ST HWY 148 (E. CAPTINA-STEINERSVILLE RD)	6.19 (EQUATION)	ASPHALT	STATE	HDD
	CR 5 (RAMSEY RIDGE RD)	6.21 (EQUATION)	ASPHALT	COUNTY	HDD
	CR 5 (RAMSEY RIDGE RD)	6.69 (EQUATION)	ASPHALT	COUNTY	BORE OR OPEN CUT
	TWP 120 (ROCKY FORK RD)	6.77 (EQUATION)	GRAVEL	COUNTY	BORE OR OPEN CUT
	TWP 237 (SHEPERD HILL RD)	9.64	GRAVEL	COUNTY	BORE OR OPEN CUT
	ST HWY 147 (CENTERVILLE JACOBSBURG RD)	10.85	ASPHALT	STATE	BORE
	TWP 244 (SCATTERDAY RD)	11.05	GRAVEL	COUNTY	BORE OR OPEN CUT
	CR 56 (OK ROAD)	11.66	ASPHALT	COUNTY	BORE OR OPEN CUT
	CR 56 (OK ROAD)	13.34	ASPHALT	COUNTY	BORE OR OPEN CUT
	TWP 228 (LUCAS LASH ROAD)	13.59	GRAVEL	COUNTY	BORE OR OPEN CUT
	ST HWY 9 (CENTERVILLE WARNOCK ROAD)	14.64	ASPHALT	STATE	BORE
	ST HWY 149 (BELMONT WARNOCK ROAD)	15.88	ASPHALT	STATE	BORE
	CR 82 (ELM STATION)	17.11	ASPHALT	COUNTY	BORE OR OPEN CUT
	TWP 272 (ROSCOE RD)	18.12	ASPHALT	COUNTY	BORE OR OPEN CUT
	I 70	18.54	ASPHALT	FEDERAL	HDD
	I 70	18.56	ASPHALT	FEDERAL	HDD
	US HWY 40 (NATIONAL ROAD)	18.82	ASPHALT	FEDERAL	HDD
	CR 80 (LLOYDSVILLE BANNOCK RD)	19.82	ASPHALT	COUNTY	BORE OR OPEN CUT
	TWP 333 (SAFFELL RD)	20.06	GRAVEL	COUNTY	BORE OR OPEN CUT
	TWP 334 (LODGE HILL RD)	20.97	GRAVEL	COUNTY	BORE OR OPEN CUT
	CR 10 (LAFFERTY-BANNOCK)	21.70	ASPHALT	COUNTY	BORE OR OPEN CUT
	TWP 393 (GAS STATION SHIPPEY ROAD)	22.62	ASPHALT	COUNTY	BORE OR OPEN CUT
	ST. HWY 331 (ST. CLAIRSVILLE STREET)	23.65	ASPHALT	STATE	BORE

**TABLE 1A-8**  
**Road and Railroad Crossing Methods**

Pipeline Facility	Crossing Name	Approximate MP	Type	Jurisdiction	Crossing Method
Clarington Lateral	CR 388 (CUNARD ROAD)	25.38	GRAVEL	COUNTY	BORE OR OPEN CUT
	ST HWY 149 (FLUSHING NEW ATHENS RD)	25.53	ASPHALT	STATE	BORE
	TWP 254 (JOCKEY HOLLOW ROAD)	27.36	GRAVEL	COUNTY	BORE OR OPEN CUT
	CR 29 (CADIZ FLUSHING ROAD)	27.54	GRAVEL	COUNTY	BORE OR OPEN CUT
	ST HWY HWY 519 (STUMPTOWN ROAD)	28.39	ASPHALT	STATE	BORE
	TWP 267 (SLATER ROAD)	29.32	ASPHALT	COUNTY	BORE OR OPEN CUT
	TWP 264 (BUSBY ROAD)	29.87	ASPHALT	COUNTY	BORE OR OPEN CUT
	US HWY 22 (CADIZ PIEDMONT ROAD)	32.32	ASPHALT	FEDERAL	BORE
Majorsville Lateral	CR 26 (NUMBER 2 RIDGE RD)	0.43 (EQUATION)	ASPHALT	COUNTY	BORE OR OPEN CUT
	CR 15/1 (UPPER WHEELING CREEK RD)	2.40	ASPHALT	COUNTY	BORE OR OPEN CUT
	CR 46 (IRISH RIDGE ROAD)	3.49	GRAVEL	COUNTY	BORE OR OPEN CUT
	CR 713 (LOWER STULL ROAD)	4.00	GRAVEL	COUNTY	BORE OR OPEN CUT
	CR 7 (MCCREARY'S RIDGE RD)	4.49	ASPHALT	COUNTY	BORE OR OPEN CUT
	CR 14 (PINE HILL RD)	6.39	ASPHALT	COUNTY	BORE OR OPEN CUT
	SR 88	7.26	ASPHALT	STATE	BORE OR OPEN CUT
	CR 10 (SHEPHERD RD)	9.66	ASPHALT	COUNTY	BORE OR OPEN CUT
	SR 86 (GRANDVIEW RD)	10.85	ASPHALT	COUNTY	BORE OR OPEN CUT
	CR 8/1 (23RD ST)	11.40	ASPHALT	COUNTY	BORE OR OPEN CUT
	SR 2	11.81	ASPHALT	STATE	BORE
	SR 2	11.82	ASPHALT	STATE	BORE
	CSX RAILROAD	11.83	RAILROAD	RAILROAD	BORE
	NORFOLK SOUTHERN RAILROAD	12.31	RAILROAD	RAILROAD	HDD
	SR 7 (OHIO RIVER SCENIC BYWAY)	12.34	ASPHALT	STATE	HDD
	SR 7 (SCENIC)	12.37	ASPHALT	COUNTY	HDD
	W 36TH ST	12.82	ASPHALT	CITY	BORE OR OPEN CUT
	CR 46 (NEW CUT RD)	13.05	ASPHALT	COUNTY	BORE OR OPEN CUT

**TABLE 1A-8**  
**Road and Railroad Crossing Methods**

Pipeline Facility	Crossing Name	Approximate MP	Type	Jurisdiction	Crossing Method
Majorsville Lateral	DAISEYVIEW RD	13.32	ASPHALT	COUNTY	BORE OR OPEN CUT
	CR 46 (NEW CUT RD)	15.14	ASPHALT	COUNTY	BORE OR OPEN CUT
	CR 46 (NEW CUT RD)	15.18	ASPHALT	COUNTY	BORE OR OPEN CUT
	TWP 716 (LASHLEY HILL RD)	16.22	ASPHALT	COUNTY	BORE OR OPEN CUT
	CR 4 (HAWTHORNE HILL RD)	16.91	ASPHALT	COUNTY	BORE OR OPEN CUT
	TWP 713 (RAMSEY RD)	17.55	ASPHALT	COUNTY	BORE OR OPEN CUT
	HWY 147 (KEY BELLAIRE RD)	19.45	ASPHALT	STATE	BORE
	TWP 290 (SCALES RD)	19.65	ASPHALT	COUNTY	BORE OR OPEN CUT
	TWP 289 (CUMBERLAND RUN RD)	20.32	ASPHALT	COUNTY	BORE OR OPEN CUT
	TWP 242 (MELLOTT RD)	20.96	GRAVEL	COUNTY	BORE OR OPEN CUT
	TWP 241 (CLEGG RD)	21.39	GRAVEL	COUNTY	BORE OR OPEN CUT
	CR 5 (GLENCOE RD)	22.58	ASPHALT	COUNTY	BORE OR OPEN CUT
	TWP 250 (COEN ROAD)	23.12	GRAVEL	COUNTY	BORE OR OPEN CUT
Cadiz Lateral	CR 509 (FREEMAN RD)	1.47	GRAVEL	COUNTY	BORE OR OPEN CUT
	US HWY 22 (CADIZ PIEDMONT RD)	2.66	ASPHALT	FEDERAL	BORE
	CR 269 (KONASKI RD)	2.85	CONCRETE	COUNTY	BORE OR OPEN CUT
Supply Connector Lines A and B	LEE'S RUN RD	1.66	GRAVEL	COUNTY	BORE OR OPEN CUT
	HINES RD	3.17	ASPHALT	COUNTY	BORE OR OPEN CUT
	CR 30 (SLAB CAMP ROAD)	3.41	ASPHALT	COUNTY	BORE OR OPEN CUT
	CR 2 (DEERSVILLE RIDGE ROAD)	3.66	ASPHALT	COUNTY	BORE OR OPEN CUT
	US HWY 250 (CADIZ DENNISON ROAD)	5.06	ASPHALT	FEDERAL	BORE
	CR 235 (MIZER ROAD)	7.13	DIRT	COUNTY	BORE OR OPEN CUT
	CR 22 (LOWER CLEARFORK ROAD)	7.47	ASPHALT	COUNTY	BORE OR OPEN CUT
	COUNTY ROAD 227 (LIGHTNER RIDGE RD)	8.76	GRAVEL	COUNTY	BORE OR OPEN CUT
	ST HWY 646 (TAPPAN SCIO ROAD)	9.11	ASPHALT	STATE	BORE
	CR 225 (HENDERSON ROAD)	10.20	GRAVEL	COUNTY	BORE OR OPEN CUT

**TABLE 1A-8**  
**Road and Railroad Crossing Methods**

Pipeline Facility	Crossing Name	Approximate MP	Type	Jurisdiction	Crossing Method
Supply Connector Lines A and B	CR 210 (BUXTON ROAD)	11.26	GRAVEL	COUNTY	BORE OR OPEN CUT
	CR 360 (HEDGEAPPLE ROAD)	11.56	ROCK	COUNTY	BORE OR OPEN CUT
	CR 25 (BEAVER DAM ROAD)	12.69	ASPHALT	COUNTY	BORE OR OPEN CUT
	CR 44 (GUNDY RIDGE ROAD)	13.26	ASPHALT	COUNTY	BORE OR OPEN CUT
	CR 215 (MILL HILL ROAD)	14.15	GRAVEL	COUNTY	BORE OR OPEN CUT
	CR 213 (WILLIS RUN ROAD)	14.63	GRAVEL	COUNTY	BORE
	CR 8 (PLUM RUN ROAD)	15.30	ASPHALT	COUNTY	BORE OR OPEN CUT
	ST HWY 151 (PATTERSON ROAD)	16.67	ASPHALT	STATE	HDD
	NORFOLK SOUTHERN RR	16.69	RAILROAD	RAILROAD	HDD
	CR 198 (CALDWELL ROAD)	17.05	CONCRETE	COUNTY	BORE OR OPEN CUT
	CORDOVA RD	17.51	GRAVEL	COUNTY	BORE OR OPEN CUT
	CR 101 (CORTEZ ROAD)	18.38	GRAVEL	COUNTY	BORE OR OPEN CUT
	CR 22 (AZALEA ROAD)	18.72	ASPHALT	COUNTY	BORE OR OPEN CUT
Burgettstown Lateral	T 715 (POINT PLEASANT RD)	0.14	GRAVEL	COUNTY	BORE OR OPEN CUT
	T 700 (CREEK RD)	0.44	GRAVEL	COUNTY	BORE OR OPEN CUT
	T 329 (SPRUCE LN)	1.04	DIRT	COUNTY	BORE OR OPEN CUT
	SR 4007 (BAVINGTON RD)	1.22	ASPHALT	STATE	BORE
	ST HWY 22 (WILLAIM PENN HWY)	1.35	ASPHALT	STATE	BORE
	ST HWY 22 (WILLAIM PENN HWY)	1.36	ASPHALT	STATE	BORE
	SR 4004 (STEUBENVILLE PIKE)	4.13	ASPHALT	STATE	BORE
	TWP RD 201 (5 POINTS RD)	4.97	ASPHALT	COUNTY	BORE OR OPEN CUT
	SR 18	5.81	ASPHALT	STATE	BORE
	T 360 (MEADOW RD)	7.82	ASPHALT	COUNTY	BORE OR OPEN CUT
	SR 4003 (PURDY RD EXT)	7.83	ASPHALT	COUNTY	BORE OR OPEN CUT
	T 362 (ROCK SCHOOL RD)	8.83	DIRT	COUNTY	BORE OR OPEN CUT
	T 869 (AUNT CLARA RD)	8.97	GRAVEL	COUNTY	BORE OR OPEN CUT

**TABLE 1A-8**  
**Road and Railroad Crossing Methods**

Pipeline Facility	Crossing Name	Approximate MP	Type	Jurisdiction	Crossing Method
Burgettstown Lateral	T 869 (AUNT CLARA RD)	9.75	GRAVEL	COUNTY	BORE OR OPEN CUT
	SR 11/2 (WARWICK RD)	10.87	DIRT	COUNTY	BORE OR OPEN CUT
	SR 9/4 (STANDISH HILL RD)	11.28	ASPHALT	COUNTY	BORE OR OPEN CUT
	SR 9 (WYLIE RIDGE RD)	12.55	ASPHALT	STATE	BORE
	SR 9/8 (SHADY GLEN RD)	14.37	ASPHALT	COUNTY	BORE OR OPEN CUT
	SR 2 (RIDGE AVE)	15.42	ASPHALT	FEDERAL	HDD
	NORFOLK SOUTHERN RR	15.50	RAILROAD	RAILROAD	HDD
	CR 7F	15.97	ASPHALT	COUNTY	HDD
	NORFOLK SOUTHERN RR	16.03	RAILROAD	RAILROAD	HDD
	CR 47 #1 (JFK HWY)	16.21	ASPHALT	COUNTY	BORE OR OPEN CUT
	SR 7 (OHIO RIVER SCENIC BYWAY)	16.23	ASPHALT	STATE	BORE
	CR 47 #2 (JFK HWY)	16.68	ASPHALT	COUNTY	BORE OR OPEN CUT
	T 243 (HALE RD)	16.82	ASPHALT	COUNTY	BORE OR OPEN CUT
	T 246	17.53	ASPHALT	COUNTY	BORE OR OPEN CUT
	CR 47 #3 (JFK HWY)	18.65	ASPHALT	COUNTY	BORE OR OPEN CUT
	T 1305 (WINLAND RD)	19.06	ASPHALT	COUNTY	BORE OR OPEN CUT
	SR 213	19.72	ASPHALT	STATE	BORE
	T 240	20.32	ASPHALT	COUNTY	BORE OR OPEN CUT
	T 350	21.17	ASPHALT	COUNTY	BORE OR OPEN CUT
	T 344 / 251	22.70	ASPHALT	COUNTY	BORE OR OPEN CUT
	CR 56	22.97	ASPHALT	COUNTY	BORE OR OPEN CUT
	CR 370	23.76	ASPHALT	COUNTY	BORE OR OPEN CUT
	CR 152 (LISBON ST)	25.48	ASPHALT	COUNTY	BORE OR OPEN CUT
	T 218	26.82	ASPHALT	COUNTY	BORE OR OPEN CUT
	SR 43	27.22	ASPHALT	STATE	BORE
	CR 260 (HIDDEN ACRES DR)	28.45	GRAVEL	COUNTY	BORE OR OPEN CUT

**TABLE 1A-8  
Road and Railroad Crossing Methods**

Pipeline Facility	Crossing Name	Approximate MP	Type	Jurisdiction	Crossing Method
Burgettstown Lateral	CR 220	29.78	ASPHALT	COUNTY	BORE OR OPEN CUT
	TWP RD 221	30.38	ASPHALT	COUNTY	BORE OR OPEN CUT
	CR 39 (UNIONPORT RD)	31.29	ASPHALT	COUNTY	BORE OR OPEN CUT
	CR 266	32.59	ASPHALT	COUNTY	BORE OR OPEN CUT
	OHIO RAIL CORP RR	33.96	RAILROAD	RAILROAD	BORE
	CR 78 (APEX-AMSTERDAM RD)	35.07	ASPHALT	COUNTY	BORE OR OPEN CUT
	TR 394 (QUEENS RD)	35.98	GRAVEL	COUNTY	BORE OR OPEN CUT
	CR 60 (CALVARY RD)	36.24	ASPHALT	COUNTY	BORE OR OPEN CUT
	SR 9 (GERMANO RD)	37.54	ASPHALT	COUNTY	BORE OR OPEN CUT
	TR 388 (PROFIT RD SE)	38.43	ASPHALT	COUNTY	BORE OR OPEN CUT
	CR 35 (BRANCH RD)	39.65	ASPHALT	COUNTY	BORE OR OPEN CUT
	TR 383 (POPPY RD)	40.12	GRAVEL	COUNTY	BORE OR OPEN CUT
	CR 59 (CASTLE)	41.00	ASPHALT	COUNTY	BORE OR OPEN CUT
	TR 378 (POLO RD)	41.17	GRAVEL	COUNTY	BORE OR OPEN CUT
	CR 59 (CASTLE RD)	41.41	ASPHALT	COUNTY	BORE OR OPEN CUT
	TR 475 (SABER)	41.85	ASPHALT	COUNTY	BORE OR OPEN CUT
	TR 376 (POKER RD)	43.06	GRAVEL	COUNTY	BORE OR OPEN CUT
	SR 332 (SCIO RD)	43.34	ASPHALT	STATE	BORE
	CR 61 (CHARLON RD)	43.94	ASPHALT	COUNTY	BORE OR OPEN CUT
	TR 124 (DIAMOND RD)	44.46	GRAVEL	COUNTY	BORE OR OPEN CUT
	CR 72 (COLOGNE RD)	44.86	ASPHALT	COUNTY	BORE OR OPEN CUT
	TR 120 (DESERT RD)	46.41	GRAVEL	COUNTY	BORE OR OPEN CUT
	TR 119 (DERRY RD SW)	46.86	GRAVEL	COUNTY	BORE OR OPEN CUT
	SR 164 (AMSTERDAM RD SW #1)	48.40	ASPHALT	STATE	BORE
	CR 116 (AUTUMN RD SW)	48.86	ASPHALT	COUNTY	BORE
	TR 115 (DEACON RD)	49.21	GRAVEL	COUNTY	BORE OR OPEN CUT

**TABLE 1A-8**  
**Road and Railroad Crossing Methods**

Pipeline Facility	Crossing Name	Approximate MP	Type	Jurisdiction	Crossing Method
Burgettstown Lateral	SR 164 (AMSTERDAM RD SW #2)	49.53	ASPHALT	STATE	BORE
	WHEELING & LAKE ERIE RR	49.68	RAILROAD	RAILROAD	BORE
	SR 212 (CUMBERLAND RD SW)	50.05	ASPHALT	STATE	BORE OR OPEN CUT
	TR 100 (CORDOVA RD SW)	50.46	ASPHALT	COUNTY	BORE OR OPEN CUT
Mainlines A and B	CR 108 (CRANE ROAD SW)	20.17	GRAVEL	COUNTY	BORE OR OPEN CUT
	CR 108 (CRANE ROAD SW)	21.00	GRAVEL	COUNTY	BORE OR OPEN CUT
	ST HWY 39 (ROSWELL ROAD)	22.10	ASPHALT	STATE	BORE
	CR 111 (CUTLER ROAD)	22.20	ASPHALT	COUNTY	BORE OR OPEN CUT
	CR 394 (MILLER HILL RD NE)	23.94	ASPHALT	COUNTY	BORE OR OPEN CUT
	WHEELING & LAKE ERIE RR	24.09	RAILROAD	RAILROAD	BORE
	CR 320 (DAWN ROAD NE)	24.10	GRAVEL	COUNTY	BORE
	CR 90 (NEW CUMBERLAND ROAD NE)	26.05	ASPHALT	COUNTY	BORE OR OPEN CUT
	ST HWY 212	27.36	ASPHALT	STATE	BORE
	CR 90 (NEW CUMBERLAND ROAD NE)	31.41	ASPHALT	COUNTY	BORE OR OPEN CUT
	CR 110 (LINDENTREE ROAD NE)	31.97	ASPHALT	COUNTY	BORE OR OPEN CUT
	CR 401 (GERMAN CEMETERY ROAD)	33.55	ASPHALT	COUNTY	BORE OR OPEN CUT
	ST HWY 800	33.95	ASPHALT	STATE	BORE
	WHEELING & LAKE ERIE RR	34.07	RAILROAD	RAILROAD	BORE
	CR 107 (SANDYVILLE RD NE)	34.49	ASPHALT	COUNTY	BORE OR OPEN CUT
	CR 452 (BAILEY RD NE)	34.93	ASPHALT	COUNTY	BORE OR OPEN CUT
	CR 82 (DOVER ZOAR NE)	35.36	ASPHALT	COUNTY	BORE
	CR 105 (DUEBER RD NE)	36.87	ASPHALT	COUNTY	BORE OR OPEN CUT
	CR 105 (DUEBER AVE SW)	37.99	ASPHALT	COUNTY	BORE OR OPEN CUT
	GRACEMONT ST	38.41	ASPHALT	COUNTY	BORE OR OPEN CUT
	INTERSTATE HIGHWAY 77	39.64	ASPHALT	FEDERAL	HDD
	INTERSTATE HIGHWAY 77	39.69	ASPHALT	FEDERAL	HDD

**TABLE 1A-8**  
**Road and Railroad Crossing Methods**

Pipeline Facility	Crossing Name	Approximate MP	Type	Jurisdiction	Crossing Method
Mainlines A and B	CR 102 (SHERMAN CHURCH AVE SW)	39.74	ASPHALT	COUNTY	HDD
	SHEPLER CHURCH AVE SW	41.56	ASPHALT	COUNTY	BORE OR OPEN CUT
	BUCKEYE TRAIL	42.17	DIRT	TBD	HDD
	WHEELING & LAKE ERIE RAILWAY CO.	42.58	RAILROAD	RAILROAD	BORE
	RIVERLAND AVE SW	42.59	ASPHALT	COUNTY	BORE OR OPEN CUT
	BLOUGH AVE SW	43.62	ASPHALT	COUNTY	BORE OR OPEN CUT
	SHETLER AVE SW	44.39	ASPHALT	COUNTY	BORE OR OPEN CUT
	ST HWY 21 (ERIE AVE SW)	45.04	ASPHALT	STATE	BORE
	GOODRICH RD SW	46.01	ASPHALT	COUNTY	BORE OR OPEN CUT
	JUSTUS AVE SW	47.48	ASPHALT	COUNTY	BORE OR OPEN CUT
	OHIO CENTRAL RAILROAD INC	47.60	RAILROAD	RAILROAD	BORE
	OHIO CENTRAL RAILROAD INC	47.61	RAILROAD	RAILROAD	BORE
	LAWNDELL ROAD SW	48.32	ASPHALT	COUNTY	BORE OR OPEN CUT
	ST HWY 93 (MANCHESTER AVE SW)	48.61	ASPHALT	COUNTY	BORE OR OPEN CUT
	WELTY RD SW	49.71	ASPHALT	COUNTY	BORE OR OPEN CUT
	STONE AVE SW	49.96	ASPHALT	COUNTY	BORE OR OPEN CUT
	ALABAMA AVE SW	50.75	ASPHALT	COUNTY	BORE OR OPEN CUT
	CR 105 (W LEBANON SW)	51.92	ASPHALT	COUNTY	BORE OR OPEN CUT
	CR 2 (HARRISON RD)	52.35	ASPHALT	COUNTY	BORE OR OPEN CUT
	ST HWY 241 (MASSILLON ROAD)	53.58	ASPHALT	STATE	BORE
	ST HWY 94 (MOUNT EATON RD)	54.18	ASPHALT	COUNTY	BORE OR OPEN CUT
	CR 97 (WENGER RD S)	54.58	ROCK	COUNTY	BORE OR OPEN CUT
	US HWY 250 (DOVER RD)	55.47	ASPHALT	FEDERAL	BORE
	CR 98 (ZUERCHER RD)	56.05	ASPHALT	COUNTY	BORE OR OPEN CUT
	CR 52 (KIDRON RD)	56.74	ASPHALT	COUNTY	BORE OR OPEN CUT
	CR 129 (S KOHLER RD)	57.34	ASPHALT	COUNTY	BORE OR OPEN CUT



**TABLE 1A-8**  
**Road and Railroad Crossing Methods**

Pipeline Facility	Crossing Name	Approximate MP	Type	Jurisdiction	Crossing Method
Mainlines A and B	S KANSAS RD	58.40	ASPHALT	COUNTY	BORE OR OPEN CUT
	CR 363 (MOUNT HOPE RD)	58.95	ASPHALT	COUNTY	BORE OR OPEN CUT
	CR 187 (FOUNTAIN NOOK RD)	59.48	ASPHALT	COUNTY	BORE OR OPEN CUT
	CR 199 (BEAR HOLLOW RD)	59.94	ASPHALT	COUNTY	BORE OR OPEN CUT
	CR 225 (CRISWELL RD)	61.07	ASPHALT	COUNTY	BORE OR OPEN CUT
	CR 94A (S CARR RD)	61.11	ASPHALT	COUNTY	BORE OR OPEN CUT
	CR 44 (S APPLE CREEK RD)	62.10	ASPHALT	COUNTY	BORE OR OPEN CUT
	CR 205 (CUTTER RD)	63.14	ASPHALT	COUNTY	BORE OR OPEN CUT
	CR 54 (S HONEYTOWN)	63.90	ASPHALT	COUNTY	BORE OR OPEN CUT
	CR 501 (FREDERICKSBURG RD)	64.81	ASPHALT	COUNTY	BORE OR OPEN CUT
	CR 49 (E.MESSNER RD)	65.96	ASPHALT	COUNTY	BORE OR OPEN CUT
	ST HWY 83	67.41	ASPHALT	STATE	BORE
	CR 176 (PRAIRIE LN)	68.24	ASPHALT	COUNTY	HDD
	NORFOLK SOUTHERN RR	69.15	RAILROAD	RAILROAD	HDD
	VALLEY RD	69.84	ASPHALT	COUNTY	BORE OR OPEN CUT
	ST HWY 226 (SHREVE RD)	70.40	ASPHALT	STATE	BORE
	CR 83 (MILLBROOK RD)	71.02	ASPHALT	COUNTY	BORE OR OPEN CUT
	ST HWY 3 (COLUMBUS RD)	71.79	ASPHALT	STATE	HDD
	CR 157 (S JEFFERSON RD)	72.56	ASPHALT	COUNTY	BORE OR OPEN CUT
	SPRINGVILLE RD	73.11	ASPHALT	COUNTY	BORE OR OPEN CUT
	MCKEE RD	73.56	ASPHALT	COUNTY	BORE OR OPEN CUT
	CR 249 (MAPLE GROVE)	73.97	ASPHALT	COUNTY	BORE OR OPEN CUT
	S FIRESTONE RD	74.96	ASPHALT	COUNTY	BORE OR OPEN CUT
	ST HWY 95 (BLACHLEYVILLE RD)	75.03	ASPHALT	STATE	BORE
	BRENN RD	75.65	ASPHALT	COUNTY	BORE OR OPEN CUT
	CR 18 (ANGLING RD)	76.69	ASPHALT	COUNTY	HDD

**TABLE 1A-8**  
**Road and Railroad Crossing Methods**

Pipeline Facility	Crossing Name	Approximate MP	Type	Jurisdiction	Crossing Method
Mainlines A and B	US HWY 30 (W LINCOLN WAY)	76.86	ASPHALT	FEDERAL	HDD
	US HWY 30 (W LINCOLN WAY)	76.88	ASPHALT	FEDERAL	HDD
	CR 149 (S ELYRIA RD)	77.30	ASPHALT	COUNTY	BORE OR OPEN CUT
	CR 16 (S FUNK RD)	78.72	ASPHALT	COUNTY	BORE OR OPEN CUT
	CR 15 (BELL RD)	79.28	ASPHALT	COUNTY	BORE OR OPEN CUT
	CR 85	79.91	ASPHALT	COUNTY	BORE OR OPEN CUT
	CR 175	80.92	ASPHALT	COUNTY	BORE OR OPEN CUT
	CR 30A (LINCOLN HWY)	81.62	ASPHALT	COUNTY	BORE
	CR 251	82.10	ASPHALT	COUNTY	BORE OR OPEN CUT
	CR 1675	82.81	ASPHALT	COUNTY	HDD
	ST HWY 89	83.27	ASPHALT	STATE	HDD
	CR 1575	84.86	ASPHALT	COUNTY	BORE OR OPEN CUT
	CR 1775	85.28	ASPHALT	COUNTY	BORE OR OPEN CUT
	CR 1754	85.98	ASPHALT	COUNTY	BORE OR OPEN CUT
	CR 655	86.18	ASPHALT	COUNTY	BORE OR OPEN CUT
	ST HWY 60	87.28	ASPHALT	STATE	BORE
	CR 1754	88.80	ASPHALT	COUNTY	BORE OR OPEN CUT
	ST HWY 511	89.37	ASPHALT	STATE	BORE
	CR 995	89.90	ASPHALT	COUNTY	BORE OR OPEN CUT
	TWP RD 1704	90.92	GRAVEL	COUNTY	BORE OR OPEN CUT
	CR 1095	91.15	ASPHALT	COUNTY	BORE OR OPEN CUT
	INTERSTATE HIGHWAY 71	91.76	ASPHALT	FEDERAL	HDD
	INTERSTATE HIGHWAY 71	91.78	ASPHALT	FEDERAL	HDD
	TWP RD 1153	91.82	ASPHALT	COUNTY	HDD
	ST HWY 603	94.09	ASPHALT	STATE	BORE OR OPEN CUT
	US HWY 42	94.44	ASPHALT	FEDERAL	HDD

**TABLE 1A-8**  
**Road and Railroad Crossing Methods**

Pipeline Facility	Crossing Name	Approximate MP	Type	Jurisdiction	Crossing Method
Mainlines A and B	ASHLAND RAILWAY RR	94.48	RAILROAD	RAILROAD	HDD
	TWP RD 1455	95.14	ASPHALT	COUNTY	BORE OR OPEN CUT
	CR 90 (PAVONIA EAST RD)	96.13	ASPHALT	COUNTY	BORE OR OPEN CUT
	CR 260 (PAVONIA NORTH RD)	97.09	ASPHALT	COUNTY	BORE OR OPEN CUT
	CR 257 (ROBINSON RD)	98.28	ASPHALT	COUNTY	BORE OR OPEN CUT
	ST HWY 545	98.73	ASPHALT	STATE	BORE
	CR 243 (FRANKLIN CHURCH RD)	99.24	ASPHALT	COUNTY	BORE OR OPEN CUT
	CR 259 (FIVE POINT EAST RD)	100.57	ASPHALT	COUNTY	BORE OR OPEN CUT
	ST HWY 13 (N MAIN ST)	101.09	ASPHALT	STATE	BORE
	CR 234 (ERNSBERGER RD)	102.10	ASPHALT	COUNTY	BORE OR OPEN CUT
	CR 233 (AMOY GANGES RD)	103.11	ASPHALT	COUNTY	BORE OR OPEN CUT
	CR 215 (BOWMAN ST)	103.93	ASPHALT	COUNTY	BORE OR OPEN CUT
	CR 208 (SPRINGMILL NORTH RD)	105.55	ASPHALT	COUNTY	BORE OR OPEN CUT
	CR 191 (PLYMOUTH SPRINGMILL RD)	105.98	ASPHALT	COUNTY	BORE OR OPEN CUT
	ST HWY 39	106.69	ASPHALT	STATE	BORE
	CR 150 (ROCK ROAD)	107.25	ASPHALT	COUNTY	BORE OR OPEN CUT
	ASHLAND RAILWAY RR	107.26	RAILROAD	RAILROAD	BORE
	CR 212 (GEORGE HAWK RD)	108.01	ASPHALT	COUNTY	BORE OR OPEN CUT
	CR 168 (STIVING RD)	108.88	ASPHALT	COUNTY	BORE OR OPEN CUT
	ST HWY 61 (S GAMBLE ST)	109.16	ASPHALT	STATE	BORE
	CR 171 (HUMMEL RD)	109.91	ASPHALT	COUNTY	BORE OR OPEN CUT
	CSXT RR	110.33	RAILROAD	RAILROAD	BORE
	CR 180 (FUNK RD)	110.97	ASPHALT	COUNTY	BORE OR OPEN CUT
	ST HWY 96	112.42	ASPHALT	STATE	BORE
	CR 178 (HINESVILLE RD)	112.79	ASPHALT	COUNTY	BORE OR OPEN CUT
	ST HWY 39	113.65	ASPHALT	STATE	BORE

**TABLE 1A-8**  
**Road and Railroad Crossing Methods**

Pipeline Facility	Crossing Name	Approximate MP	Type	Jurisdiction	Crossing Method
Mainlines A and B	CR 47 (HANNA RD)	114.17	ASPHALT	COUNTY	BORE OR OPEN CUT
	ST HWY 598	114.84	ASPHALT	STATE	BORE
	CR 17 (NEW HAVEN)	115.70	ASPHALT	COUNTY	BORE OR OPEN CUT
	ST HWY 39	116.07	ASPHALT	STATE	BORE
	ST HWY 98	117.16	ASPHALT	STATE	BORE
	ST HWY 53 (DICKSON RD)	117.55	ASPHALT	STATE	BORE
	CR 69 (STEVENS RD)	118.30	ASPHALT	COUNTY	BORE OR OPEN CUT
	CR 130 (COOK RD)	119.18	ASPHALT	COUNTY	BORE OR OPEN CUT
	CR 97 (JOHNSTON RD)	119.47	ASPHALT	COUNTY	BORE OR OPEN CUT
	CR 65 (MARSH RD)	120.39	ASPHALT	COUNTY	BORE OR OPEN CUT
	ST HWY 602	120.96	ASPHALT	STATE	BORE
	CR 26 (ORR RD)	122.37	ASPHALT	COUNTY	BORE OR OPEN CUT
	CR 42 (SCHWAB RD)	122.62	ASPHALT	COUNTY	BORE OR OPEN CUT
	CR 23 (S CONNELLY RD)	123.70	ASPHALT	COUNTY	BORE OR OPEN CUT
	CR 25 (CHATFIELD CENTER RD)	124.64	ASPHALT	COUNTY	BORE OR OPEN CUT
	CR 41 (SCHWEMLEY RD)	124.88	ASPHALT	COUNTY	BORE OR OPEN CUT
	CR 135 (CLADY RD)	125.05	ASPHALT	COUNTY	BORE OR OPEN CUT
	WHEELING & LAKE ERIE RR	125.57	RAILROAD	RAILROAD	BORE
	NORFOLK SOUTHERN RR	125.96	RAILROAD	RAILROAD	BORE
	NORFOLK SOUTHERN RR	125.96	RAILROAD	RAILROAD	BORE
	ST HWY 4	126.11	ASPHALT	STATE	BORE
	CR 5 (NEW WASHINGTON RD)	126.38	ASPHALT	COUNTY	BORE OR OPEN CUT
	CR 131 (BRILLHART RD)	127.38	ASPHALT	COUNTY	BORE OR OPEN CUT
	CR 38 (ROSS RD)	128.49	ASPHALT	COUNTY	BORE OR OPEN CUT
	CR 24 (ALBAUGH RD)	128.62	ASPHALT	COUNTY	BORE OR OPEN CUT
	CR 37 (KENNEDY RD)	129.61	ASPHALT	COUNTY	BORE OR OPEN CUT

**TABLE 1A-8**  
**Road and Railroad Crossing Methods**

Pipeline Facility	Crossing Name	Approximate MP	Type	Jurisdiction	Crossing Method
Mainlines A and B	ST HWY 19	130.74	ASPHALT	STATE	BORE
	E CR 58, CR 14 (CRAWFORD-SENECA LINE RD)	130.78	ASPHALT	COUNTY	BORE OR OPEN CUT
	E TWP RD 44 (HUNT RD)	132.83	ASPHALT	COUNTY	BORE OR OPEN CUT
	CR 43 (MILLER ROAD)	133.07	ASPHALT	COUNTY	BORE OR OPEN CUT
	S TWP RD 171	134.20	ASPHALT	COUNTY	BORE OR OPEN CUT
	E CR 6	134.98	ASPHALT	COUNTY	BORE OR OPEN CUT
	E CR 12	135.34	ASPHALT	COUNTY	HDD
	ST HWY 67	136.07	ASPHALT	STATE	BORE
	TWP RD 159 (GILLIG RD)	136.61	ASPHALT	COUNTY	BORE OR OPEN CUT
	ST HWY 100	137.04	ASPHALT	STATE	BORE
	E TWP RD 58	137.26	ASPHALT	COUNTY	BORE OR OPEN CUT
	S TWP RD 17	137.74	ASPHALT	COUNTY	BORE OR OPEN CUT
	S TWP RD 151 (INFIRMARY RD)	138.93	ASPHALT	COUNTY	BORE OR OPEN CUT
	ST HWY 231 (MOHAWK RD)	140.00	ASPHALT	STATE	BORE
	S CR 19	141.20	ASPHALT	COUNTY	BORE OR OPEN CUT
	ST HWY 53	142.52	ASPHALT	STATE	BORE
	W TWP RD 98	144.36	ASPHALT	COUNTY	BORE OR OPEN CUT
	W TWP RD 113	144.55	ASPHALT	COUNTY	BORE OR OPEN CUT
	S CR 591	145.36	ASPHALT	COUNTY	BORE OR OPEN CUT
	W TWP RD 102 (CR 51)	145.53	ASPHALT	COUNTY	BORE OR OPEN CUT
	W TWP RD 109 (CR 47)	145.65	ASPHALT	COUNTY	BORE OR OPEN CUT
	S CR 7	146.79	ASPHALT	COUNTY	BORE OR OPEN CUT
	US HWY 224	147.35	ASPHALT	FEDERAL	BORE
	CR 101 (GOSHE RD)	147.89	ASPHALT	COUNTY	BORE OR OPEN CUT
	S TWP RD 66 (RANCH RD)	149.01	ASPHALT	COUNTY	BORE OR OPEN CUT

**TABLE 1A-8**  
**Road and Railroad Crossing Methods**

Pipeline Facility	Crossing Name	Approximate MP	Type	Jurisdiction	Crossing Method
Mainlines A and B	W CR 18	149.36	ASPHALT	COUNTY	BORE OR OPEN CUT
	S TWP RD 87	149.57	ASPHALT	COUNTY	BORE OR OPEN CUT
	S TWP RD 59 (DUFFY RD)	150.88	ASPHALT	COUNTY	BORE OR OPEN CUT
	ST HWY 587	151.80	ASPHALT	STATE	BORE
	US HWY 23 / ST HWY 199	153.17	ASPHALT	FEDERAL / STATE	BORE
	CSXT RR	153.42	RAILROAD	RAILROAD	BORE
	S TWP RD 21 (POPLAR RD)	153.67	ASPHALT	COUNTY	BORE OR OPEN CUT
	TWP RD 217	154.88	ASPHALT	COUNTY	BORE OR OPEN CUT
	CR 23	155.01	ASPHALT	COUNTY	BORE OR OPEN CUT
	ST HWY 12	157.00	ASPHALT	STATE	BORE
	NORFOLK SOUTHERN RR	157.13	RAILROAD	RAILROAD	BORE
	NORFOLK SOUTHERN RR	157.14	RAILROAD	RAILROAD	BORE
	TWP RD 218	157.61	ASPHALT	COUNTY	BORE OR OPEN CUT
	CR 226	159.12	ASPHALT	COUNTY	BORE OR OPEN CUT
	ST HWY 613 (ST HWY 18)	159.46	ASPHALT	STATE	BORE
	CSXT RR	159.47	RAILROAD	RAILROAD	BORE
	CSXT RR	159.47	RAILROAD	RAILROAD	BORE
	CR 257	159.75	ASPHALT	COUNTY	BORE OR OPEN CUT
	CR 74 (TURLEY RD)	160.77	ASPHALT	COUNTY	BORE OR OPEN CUT
	CR 31 (STEARNS RD)	161.12	ASPHALT	COUNTY	BORE OR OPEN CUT
	CR 84 (PELTON RD)	161.79	ASPHALT	COUNTY	BORE OR OPEN CUT
	CR 87 (PORTAGE VIEW RD)	162.05	ASPHALT	COUNTY	BORE OR OPEN CUT
	CR 34 (EAGLEVILLE RD)	163.19	ASPHALT	COUNTY	BORE OR OPEN CUT
	CR 86 (EMERSON RD)	163.29	ASPHALT	COUNTY	BORE OR OPEN CUT
	CR 25 (OIL CENTER RD)	164.40	ASPHALT	COUNTY	BORE OR OPEN CUT
	CR 83 (BLOOMDALE RD)	164.54	ASPHALT	COUNTY	BORE OR OPEN CUT

**TABLE 1A-8**  
**Road and Railroad Crossing Methods**

Pipeline Facility	Crossing Name	Approximate MP	Type	Jurisdiction	Crossing Method
Mainlines A and B	CR 115 (ROSENDALE RD)	165.04	ASPHALT	COUNTY	BORE OR OPEN CUT
	CR 73 (CLOVERDALE RD)	165.55	ASPHALT	COUNTY	BORE OR OPEN CUT
	CR 82 (HUFFMAN RD)	166.61	ASPHALT	COUNTY	BORE OR OPEN CUT
	CR 136 (TANK FARM RD)	167.24	ASPHALT	COUNTY	BORE OR OPEN CUT
	CR 145 (LOE RD)	168.24	ASPHALT	COUNTY	BORE OR OPEN CUT
	CR 144 (ROCK RIDGE RD)	169.34	ASPHALT	COUNTY	BORE OR OPEN CUT
	CSTX RAILROAD (NY CENTRAL LINES)	169.62	RAILROAD	RAILROAD	HDD
	CR 603 (GRANT RD)	170.06	ASPHALT	COUNTY	HDD
	I 75	170.08	ASPHALT	FEDERAL	HDD
	I 75	170.10	ASPHALT	FEDERAL	HDD
	I 75	170.12	ASPHALT	FEDERAL	HDD
	I 75	170.13	ASPHALT	FEDERAL	HDD
	CR 604 (INSLEY RD)	170.15	ASPHALT	COUNTY	HDD
	CR 3 (CYGNET RD)	170.46	ASPHALT	COUNTY	BORE OR OPEN CUT
	CR 133 (RUDOLPH RD)	171.09	ASPHALT	COUNTY	BORE OR OPEN CUT
	SLIPPERY ELM TRAIL	171.33	ASPHALT	COUNTY	BORE OR OPEN CUT
	CR 81 (MITCHELL RD)	172.08	ASPHALT	COUNTY	BORE OR OPEN CUT
	CR 46 (LIBERTY HI RD)	173.09	ASPHALT	COUNTY	BORE OR OPEN CUT
	CR 45 (WINGSTON RD)	174.11	ASPHALT	COUNTY	BORE OR OPEN CUT
	CR 44 (POTTER RD)	175.11	ASPHALT	COUNTY	BORE OR OPEN CUT
	CR 132 (BLOOM RD)	175.63	ASPHALT	COUNTY	BORE OR OPEN CUT
	CR 43 (RANGELINE RD)	176.19	CALICHE	COUNTY	BORE OR OPEN CUT
	ST HWY 235 (OTSEGO PIKE)	177.22	ASPHALT	STATE	BORE
	CR 42 (WESTON RD)	178.25	GRAVEL	COUNTY	BORE OR OPEN CUT
	CR 23 (JERRY CITY RD)	178.45	ASPHALT	COUNTY	BORE OR OPEN CUT
	CR 40 (MILTON RD)	179.34	ASPHALT	COUNTY	BORE OR OPEN CUT

**TABLE 1A-8**  
**Road and Railroad Crossing Methods**

Pipeline Facility	Crossing Name	Approximate MP	Type	Jurisdiction	Crossing Method
Mainlines A and B	CR 38 (CUSTAR RD)	180.37	ASPHALT	COUNTY	BORE OR OPEN CUT
	CSXT RAILROAD	181.18	RAILROAD	RAILROAD	BORE
	CR 37 (ROUNDHEAD RD)	181.43	ASPHALT	COUNTY	BORE OR OPEN CUT
	CR 1 (COUNTY LINE RD)	182.46	ASPHALT	COUNTY	BORE OR OPEN CUT
Mainline A	CR 2	183.48	ASPHALT	COUNTY	BORE OR OPEN CUT
	CR H	183.56	ASPHALT	COUNTY	BORE OR OPEN CUT
	CR 3	184.54	ASPHALT	COUNTY	BORE OR OPEN CUT
	ST HWY 65	185.57	ASPHALT	STATE	BORE
	CR H1	186.39	GRAVEL	COUNTY	BORE OR OPEN CUT
	CR 5	186.60	ASPHALT	COUNTY	BORE OR OPEN CUT
	CR 6	187.67	CONCRETE	COUNTY	BORE OR OPEN CUT
	ST HWY 281	188.14	ASPHALT	STATE	BORE
	CR 7	188.76	ASPHALT	COUNTY	BORE OR OPEN CUT
	CR 8	189.78	CONCRETE	COUNTY	BORE OR OPEN CUT
	INDIANA & OHIO RAILROAD	190.54	RAILROAD	RAILROAD	HDD
	ST HWY 109	190.79	ASPHALT	STATE	HDD
	CR 10	191.81	ASPHALT	COUNTY	BORE OR OPEN CUT
	CR 11	192.86	ASPHALT	COUNTY	BORE OR OPEN CUT
	CR J	193.51	ASPHALT	COUNTY	BORE OR OPEN CUT
	CR 12	193.95	ASPHALT	COUNTY	BORE OR OPEN CUT
	ST HWY 108	195.14	ASPHALT	STATE	BORE
	CR 14	196.06	ASPHALT	COUNTY	BORE OR OPEN CUT
	CR 15	197.05	ASPHALT	COUNTY	HDD
	CR 16	198.07	ASPHALT	COUNTY	BORE OR OPEN CUT
	CR 17	199.07	ASPHALT	COUNTY	BORE OR OPEN CUT
	CR 18	200.09	ASPHALT	COUNTY	BORE OR OPEN CUT



**TABLE 1A-8**  
**Road and Railroad Crossing Methods**

Pipeline Facility	Crossing Name	Approximate MP	Type	Jurisdiction	Crossing Method
Mainline A	ST HWY 424	200.48	ASPHALT	STATE	HDD
	CR 19 (3)	201.05	ASPHALT	COUNTY	BORE OR OPEN CUT
	CR 191 (EGLER RD)	202.11	ASPHALT	COUNTY	BORE OR OPEN CUT
	CR 187 (HAMMON RD)	203.17	ASPHALT	COUNTY	BORE OR OPEN CUT
	CR 55 (Jewell Rd)	203.57	ASPHALT	COUNTY	BORE OR OPEN CUT
	MAUMEE & WESTERN RR	203.97	RAILROAD	RAILROAD	BORE
	CR 185 (INDEPENDENCE RD)	204.31	ASPHALT	COUNTY	BORE OR OPEN CUT
	US HWY 24	204.61	ASPHALT	FEDERAL	BORE
	US HWY 24	204.62	ASPHALT	FEDERAL	BORE
	CR 176 (ADAMS RIDGE RD)	205.22	ASPHALT	COUNTY	BORE OR OPEN CUT
	CR 175 (DOMERSVILLE RD)	206.37	ASPHALT	COUNTY	BORE OR OPEN CUT
	CR 68 (FLORY RD)	207.21	ASPHALT	COUNTY	BORE OR OPEN CUT
	CR 166 (CARPENTER RD)	207.83	ASPHALT	COUNTY	BORE OR OPEN CUT
	ST HWY 66	208.98	ASPHALT	STATE	BORE
	CR 70 (BANNER SCHOOL RD)	209.23	ASPHALT	COUNTY	BORE OR OPEN CUT
Market Segment	ST HWY 66	0.76	ASPHALT	STATE	BORE
	CR 78 (KAMMEYER RD)	0.96	ASPHALT	COUNTY	BORE OR OPEN CUT
	CR 81 (MEKUS RD)	1.55	ASPHALT	COUNTY	BORE OR OPEN CUT
	CR 83 (CORESSEL RD)	2.11	GRAVEL	COUNTY	BORE OR OPEN CUT
	CR 166 (CARPENTER RD)	2.89	ASPHALT	COUNTY	BORE OR OPEN CUT
	CR 95 (ALLEN RD)	3.24	ASPHALT	COUNTY	BORE OR OPEN CUT
	CR 98 (NAGEL RD)	4.40	ASPHALT	COUNTY	BORE OR OPEN CUT
	CR 175 (DOMERSVILLE RD)	5.02	ASPHALT	COUNTY	BORE OR OPEN CUT
	CR 2 (COUNTY ROAD S)	5.52	ASPHALT	COUNTY	BORE OR OPEN CUT
	CR 23	6.67	ASPHALT	COUNTY	BORE OR OPEN CUT
	US HWY 6 (STATE HWY 66)	6.92	ASPHALT	FEDERAL	BORE

**TABLE 1A-8**  
**Road and Railroad Crossing Methods**

Pipeline Facility	Crossing Name	Approximate MP	Type	Jurisdiction	Crossing Method
Market Segment	STATE HWY 34	7.73	ASPHALT	STATE	BORE
	CR U1	8.78	ASPHALT	COUNTY	BORE OR OPEN CUT
	CR V	9.47	ASPHALT	COUNTY	BORE OR OPEN CUT
	CR A (TWP W)	10.48	ASPHALT	COUNTY	BORE OR OPEN CUT
	CR B	11.65	ASPHALT	COUNTY	BORE OR OPEN CUT
	TWP RD 21-3	11.91	ASPHALT	COUNTY	BORE OR OPEN CUT
	CR C	12.73	ASPHALT	COUNTY	BORE OR OPEN CUT
	NORFOLK SOUTHERN RR	13.58	RAILROAD	RAILROAD	BORE
	NORFOLK SOUTHERN RR	13.58	RAILROAD	RAILROAD	BORE
	NORFOLK SOUTHERN RR	13.59	RAILROAD	RAILROAD	BORE
	CR D	13.80	ASPHALT	COUNTY	BORE OR OPEN CUT
	CR 21	14.57	ASPHALT	COUNTY	BORE OR OPEN CUT
	ST HWY 2	14.95	ASPHALT	STATE	BORE
	CR F	16.04	ASPHALT	COUNTY	BORE OR OPEN CUT
	ABANDONED RAILROAD	16.58	DIRT	RAILROAD	BORE
	ST HWY 20-A	17.11	ASPHALT	STATE	BORE
	CR H	18.14	ASPHALT	COUNTY	BORE OR OPEN CUT
	I 80	18.38	ASPHALT	FEDERAL	BORE
	I 80	18.40	ASPHALT	FEDERAL	BORE
	CR HJ	18.64	ASPHALT	COUNTY	BORE OR OPEN CUT
	CR 20	19.27	ASPHALT	COUNTY	BORE OR OPEN CUT
	CR L	20.83	ASPHALT	COUNTY	BORE OR OPEN CUT
	CR 19	21.87	ASPHALT	COUNTY	BORE OR OPEN CUT
	CR N	23.10	ASPHALT	COUNTY	BORE OR OPEN CUT
	US HWY 20	24.15	ASPHALT	FEDERAL	BORE
	STATE HWY 108	24.68	ASPHALT	STATE	BORE OR OPEN CUT

**TABLE 1A-8**  
**Road and Railroad Crossing Methods**

Pipeline Facility	Crossing Name	Approximate MP	Type	Jurisdiction	Crossing Method
Market Segment	CR S	25.35	ASPHALT	COUNTY	BORE OR OPEN CUT
	CR T	26.36	ASPHALT	COUNTY	BORE OR OPEN CUT
	STATE ROUTE M-120 (MORENCI RD)	27.78	ASPHALT	STATE	BORE
	WEST YANKEE RD	28.43	ASPHALT	COUNTY	BORE OR OPEN CUT
	WEST WESTON RD	29.22	ASPHALT	COUNTY	BORE OR OPEN CUT
	WEST MULBERRY ROAD	29.61	ASPHALT	COUNTY	BORE OR OPEN CUT
	WEST RIDGEVILLE ROAD	30.64	GRAVEL	COUNTY	BORE OR OPEN CUT
	WOLFE RD	31.70	GRAVEL	COUNTY	BORE OR OPEN CUT
	SENECA HWY	32.00	ASPHALT	FEDERAL	BORE
	PACKARD RD	32.96	GRAVEL	COUNTY	BORE OR OPEN CUT
	NORFOLK SOUTHERN RR	33.55	RAILROAD	RAILROAD	BORE
	TUTTLE HWY	34.72	GRAVEL	COUNTY	BORE OR OPEN CUT
	BRYANT RD	35.38	ASPHALT	COUNTY	BORE OR OPEN CUT
	WEST GORMAN RD	35.92	ASPHALT	COUNTY	BORE OR OPEN CUT
	DEMINGS LAKE RD	37.16	ASPHALT	COUNTY	BORE OR OPEN CUT
	TOMER RD	37.70	GRAVEL	COUNTY	BORE OR OPEN CUT
	SWORD HWY	38.80	GRAVEL	COUNTY	BORE OR OPEN CUT
	W CARLETON RD	38.96	GRAVEL	COUNTY	BORE OR OPEN CUT
	W CADMUS RD	40.04	ASPHALT	COUNTY	BORE OR OPEN CUT
	WHIG HWY	40.86	GRAVEL	COUNTY	BORE OR OPEN CUT
	STATE ROUTE M-34 (W BEECHER)	41.73	ASPHALT	STATE	BORE
	US ROUTE 223 (NORTHVIEW)	43.05	ASPHALT	FEDERAL	BORE
	FORRISTER RD	43.56	GRAVEL	COUNTY	BORE OR OPEN CUT
	BURTON RD/ HUNT RD	44.61	ASPHALT	COUNTY	BORE OR OPEN CUT
	ROME RD	45.82	ASPHALT	COUNTY	BORE OR OPEN CUT
	WOLF CREEK HWY	46.01	ASPHALT	COUNTY	BORE OR OPEN CUT

**TABLE 1A-8**  
**Road and Railroad Crossing Methods**

Pipeline Facility	Crossing Name	Approximate MP	Type	Jurisdiction	Crossing Method
Market Segment	BRAZEE RD	46.52	ASPHALT	COUNTY	BORE OR OPEN CUT
	SHEPHERD RD	48.07	ASPHALT	COUNTY	BORE OR OPEN CUT
	TEACHOUT RD	48.98	GRAVEL	COUNTY	BORE OR OPEN CUT
	BEEBE HWY	50.46	GRAVEL	COUNTY	BORE OR OPEN CUT
	STATE ROUTE M-50 (MONROE ROAD)	51.70	ASPHALT	STATE	BORE
	TIPTON HWY	52.54	ASPHALT	COUNTY	BORE OR OPEN CUT
	MUNGER RD	53.21	GRAVEL	COUNTY	BORE OR OPEN CUT
	WHELAN RD	53.73	GRAVEL	COUNTY	BORE OR OPEN CUT
	SERVICE ROAD	55.30	GRAVEL	COUNTY	BORE OR OPEN CUT
	WISNER HWY	55.41	GRAVEL	COUNTY	BORE OR OPEN CUT
	US ROUTE 12 (WEST MICHIGAN AVENUE)	56.45	ASPHALT	FEDERAL	BORE
	LEMM RD	57.60	GRAVEL	COUNTY	BORE OR OPEN CUT
	BOWENS RD	58.82	GRAVEL	COUNTY	BORE OR OPEN CUT
	STATE ROUTE M-52	60.29	ASPHALT	STATE	BORE
	LOGAN RD	60.71	GRAVEL	COUNTY	BORE OR OPEN CUT
	HOGAN RD	61.79	GRAVEL	COUNTY	BORE OR OPEN CUT
	E AUSTIN RD	62.39	ASPHALT	CITY	HDD
	SCHWAB RD	62.71	GRAVEL	COUNTY	HDD
	NEAL RD	63.73	GRAVEL	COUNTY	BORE OR OPEN CUT
	BEMIS RD	64.60	GRAVEL	COUNTY	BORE OR OPEN CUT
	EISMAN RD	65.36	GRAVEL	COUNTY	BORE OR OPEN CUT
	BETHEL CHURCH RD	65.83	GRAVEL	COUNTY	BORE OR OPEN CUT
	E PLEASANT LAKE RD	67.97	ASPHALT	COUNTY	BORE OR OPEN CUT
	W ELLSWORTH RD	69.09	GRAVEL	COUNTY	BORE OR OPEN CUT
	WATERS RD	70.11	GRAVEL	COUNTY	BORE OR OPEN CUT
	SCIO CHURCH RD	71.46	ASPHALT	COUNTY	BORE OR OPEN CUT

**TABLE 1A-8**  
**Road and Railroad Crossing Methods**

Pipeline Facility	Crossing Name	Approximate MP	Type	Jurisdiction	Crossing Method
Market Segment	S LIMA CENTER RD	71.95	GRAVEL	COUNTY	BORE OR OPEN CUT
	JERUSALEM RD	72.89	GRAVEL	COUNTY	BORE OR OPEN CUT
	JACKSON RD (OLD EAST US 12)	74.24	ASPHALT	COUNTY	BORE OR OPEN CUT
	I 94	74.41	ASPHALT	FEDERAL	BORE
	I 94	74.43	ASPHALT	FEDERAL	BORE
	SEITZ DR	75.35	DIRT	COUNTY	BORE OR OPEN CUT
	TRINKLE RD	75.35	DIRT	COUNTY	BORE OR OPEN CUT
	DEXTER CHELSEA RD	76.42	ASPHALT	COUNTY	BORE OR OPEN CUT
	NORFOLK SOUTHERN CORPORATION	76.48	RAILROAD	RAILROAD	BORE
	BEACH RD	77.28	GRAVEL	COUNTY	BORE OR OPEN CUT
	ISLAND LAKE RD	78.64	ASPHALT	COUNTY	BORE OR OPEN CUT
	COLBY RD	80.46	GRAVEL	COUNTY	BORE OR OPEN CUT
	QUIGLEY RD	81.47	GRAVEL	COUNTY	BORE OR OPEN CUT
	N TERRITORIAL RD	81.94	ASPHALT	COUNTY	BORE OR OPEN CUT
	DEXTER TOWNHALL RD	83.20	ASPHALT	COUNTY	BORE OR OPEN CUT
	STINCHFIELD WOODS RD	83.85	GRAVEL	COUNTY	BORE OR OPEN CUT
	TIPLADY RD	84.95	GRAVEL	COUNTY	HDD
	PATTERSON LAKE (D-32)	85.74	ASPHALT	COUNTY	HDD
	DE LAPP LN	86.24	GRAVEL	COUNTY	HDD
	MOWER RD	86.91	ASPHALT	COUNTY	BORE OR OPEN CUT
	SR M- 36 (W MAIN ST)	87.45	ASPHALT	FEDERAL	BORE
	CEDAR LAKE LN	87.85	DIRT	COUNTY	BORE OR OPEN CUT
	CEDAR LAKE RD	88.32	GRAVEL	COUNTY	BORE OR OPEN CUT
	ACACIA TRAIL	88.51	CONCRETE	COUNTY	BORE OR OPEN CUT
	QUEENSLAND WAY	89.80	ASPHALT	COUNTY	BORE OR OPEN CUT
	EMU DRIVE	89.99	CONCRETE	COUNTY	BORE OR OPEN CUT

**TABLE 1A-8**  
**Road and Railroad Crossing Methods**

Pipeline Facility	Crossing Name	Approximate MP	Type	Jurisdiction	Crossing Method
Market Segment	HINCHEY RD	90.06	GRAVEL	COUNTY	BORE OR OPEN CUT
	SPEARS RD	90.98	GRAVEL	COUNTY	BORE OR OPEN CUT
	BURGESS RD	92.00	GRAVEL	COUNTY	BORE OR OPEN CUT
	PINGREE RD	92.93	GRAVEL	COUNTY	BORE OR OPEN CUT
	W SCHAFER RD	93.34	GRAVEL	COUNTY	BORE OR OPEN CUT
	VINES RD	95.41	GRAVEL	COUNTY	BORE OR OPEN CUT
	W COON LAKE RD	95.90	DIRT	COUNTY	BORE OR OPEN CUT
	W LANG RD	98.05	GRAVEL	COUNTY	BORE OR OPEN CUT
	CROFOT RD	98.69	GRAVEL	COUNTY	BORE OR OPEN CUT
	W MASON RD	99.83	ASPHALT	STATE	BORE
	W SARGET RD	100.83	GRAVEL	COUNTY	BORE OR OPEN CUT
	LAYTON RD	102.34	GRAVEL	COUNTY	BORE OR OPEN CUT
	I 96	102.62	ASPHALT	FEDERAL	HDD
	I 96	102.66	ASPHALT	FEDERAL	HDD
	CSX TRANSPORTATION, INC.	102.84	RAILROAD	RAILROAD	HDD
	W WARNER RD	102.86	GRAVEL	COUNTY	HDD
	W GRAND RIVER AVE	104.05	ASPHALT	COUNTY	BORE OR OPEN CUT
	W MARR RD	104.76	GRAVEL	COUNTY	BORE OR OPEN CUT
	W ALLEN RD	106.18	GRAVEL	COUNTY	BORE OR OPEN CUT
	W CHASE LAKE RD	107.18	GRAVEL	COUNTY	BORE OR OPEN CUT
	W MAXWELL RD	109.20	GRAVEL	COUNTY	BORE OR OPEN CUT
	W HAYNER RD	109.78	ASPHALT	COUNTY	BORE OR OPEN CUT
	W GANNON RD	110.28	GRAVEL	COUNTY	BORE OR OPEN CUT
	STONER RD	111.28	GRAVEL	COUNTY	BORE OR OPEN CUT
	N FLEMING RD	111.64	GRAVEL	COUNTY	BORE OR OPEN CUT
	W BRUFF RD	111.97	GRAVEL	COUNTY	BORE OR OPEN CUT

**TABLE 1A-8**  
**Road and Railroad Crossing Methods**

Pipeline Facility	Crossing Name	Approximate MP	Type	Jurisdiction	Crossing Method
Market Segment	LOVEJOY RD	113.08	GRAVEL	COUNTY	BORE OR OPEN CUT
	REED RD	114.28	ASPHALT	COUNTY	BORE OR OPEN CUT
	BEARD RD	115.32	ASPHALT	COUNTY	BORE OR OPEN CUT
	BATH RD	116.41	ASPHALT	COUNTY	BORE OR OPEN CUT
	LEHRING RD	117.67	GRAVEL	COUNTY	BORE OR OPEN CUT
	DURAND RD	118.38	ASPHALT	COUNTY	BORE OR OPEN CUT
	NEW LOTHROP RD	118.73	ASPHALT	COUNTY	BORE OR OPEN CUT
	GLC RAILROAD	119.23	RAILROAD	RAILROAD	BORE
	BYRON RD	119.73	ASPHALT	COUNTY	BORE OR OPEN CUT
	COUNTY LINE RD / SHERIDAN AVE	120.74	GRAVEL	COUNTY	BORE OR OPEN CUT
	MARKLEY RD	121.82	GRAVEL	COUNTY	BORE OR OPEN CUT
	DUFFIELD RD	122.34	ASPHALT	COUNTY	BORE OR OPEN CUT
	CANADIAN NATIONAL RAILWAY	123.03	RAILROAD	RAILROAD	BORE
	SEYMOUR RD	125.09	GRAVEL	COUNTY	BORE OR OPEN CUT
	HOGAN RD	127.38	GRAVEL	COUNTY	BORE OR OPEN CUT
	SHARP RD	128.24	GRAVEL	COUNTY	BORE OR OPEN CUT
	LINDEN RD	129.34	ASPHALT	COUNTY	BORE OR OPEN CUT
	W RAY RD	130.00	GRAVEL	COUNTY	BORE OR OPEN CUT
	JENNINGS RD	130.91	ASPHALT	COUNTY	BORE OR OPEN CUT
	US ROUTE 23	131.42	ASPHALT	FEDERAL	BORE
	US ROUTE 23	131.43	ASPHALT	FEDERAL	BORE
	TORREY RD	131.95	ASPHALT	COUNTY	BORE OR OPEN CUT
	FENTON RD	133.61	ASPHALT	COUNTY	BORE OR OPEN CUT
	HALSEY RD	135.80	GRAVEL	COUNTY	BORE OR OPEN CUT
	N HOLLY RD	137.27	ASPHALT	COUNTY	BORE OR OPEN CUT
	CSX RAILROAD	137.57	RAILROAD	RAILROAD	BORE

**TABLE 1A-8**  
**Road and Railroad Crossing Methods**

Pipeline Facility	Crossing Name	Approximate MP	Type	Jurisdiction	Crossing Method
Market Segment	FURBUSH RD	139.12	GRAVEL	COUNTY	BORE OR OPEN CUT
	I 75	139.15	ASPHALT	FEDERAL	BORE
	I 75	139.22	ASPHALT	FEDERAL	BORE
	DIXIE HWY	139.60	ASPHALT	STATE	BORE
	VASSAR RD	140.40	GRAVEL	COUNTY	BORE OR OPEN CUT
	HORTON RD	142.10	DIRT	COUNTY	BORE OR OPEN CUT
	GALE RD	142.65	ASPHALT	COUNTY	BORE OR OPEN CUT
	THAYER RD	143.66	GRAVEL	COUNTY	BORE OR OPEN CUT
	N JOSSMAN RD	144.67	GRAVEL	COUNTY	BORE OR OPEN CUT
	SR 15 (S STATE ROAD)	145.62	ASPHALT	STATE	BORE
	KIPP RD	146.74	GRAVEL	COUNTY	BORE OR OPEN CUT
	GREEN RD	147.73	GRAVEL	COUNTY	BORE OR OPEN CUT
	HEGEL RD	148.73	ASPHALT	COUNTY	BORE OR OPEN CUT
	E COUNTY LINE RD	149.55	GRAVEL	COUNTY	BORE OR OPEN CUT
	BRIGHAM RD	151.34	GRAVEL	COUNTY	BORE OR OPEN CUT
	HADLEY RD	152.70	ASPHALT	COUNTY	BORE OR OPEN CUT
	WESTWIND LN	153.17	DIRT	COUNTY	BORE OR OPEN CUT
	DIEHL RD	153.82	GRAVEL	COUNTY	BORE OR OPEN CUT
	PINE CREEK DR	154.54	ROCK	COUNTY	BORE OR OPEN CUT
	HERD RD	155.00	ASPHALT	COUNTY	BORE OR OPEN CUT
	PRATT RD/ ROUTE 62	155.61	ASPHALT	STATE	BORE
	FARMERS CREEK RD	156.29	GRAVEL	COUNTY	BORE OR OPEN CUT
	W SUTTON RD	156.88	ASPHALT	COUNTY	BORE OR OPEN CUT
	BALDWIN RD	157.24	ASPHALT	COUNTY	BORE OR OPEN CUT
	ST ROUTE M-24	158.58	ASPHALT	STATE	BORE
	ST ROUTE M-24	158.60	ASPHALT	STATE	BORE



**TABLE 1A-8**  
**Road and Railroad Crossing Methods**

Pipeline Facility	Crossing Name	Approximate MP	Type	Jurisdiction	Crossing Method
Market Segment	CLARK RD	159.37	GRAVEL	COUNTY	BORE OR OPEN CUT
	METAMORA RD	159.85	ASPHALT	COUNTY	BORE OR OPEN CUT
	ABANDONED RAILROAD	16.01	RAILROAD	RAILROAD	BORE
	WILDER RD	162.37	ASPHALT	COUNTY	BORE OR OPEN CUT
	S 5 LAKES RD/ ROUTE 14	163.37	GRAVEL	COUNTY	BORE OR OPEN CUT
	MILLER RD	164.61	GRAVEL	COUNTY	BORE OR OPEN CUT
	S LAKE GEORGE RD	165.36	DIRT	COUNTY	BORE OR OPEN CUT
	S LAKE PLEASANT RD	166.35	ASPHALT	COUNTY	BORE OR OPEN CUT
	E HUNTERS CREEK RD	167.41	GRAVEL	COUNTY	BORE OR OPEN CUT
	ATWELL RD	167.98	GRAVEL	COUNTY	BORE OR OPEN CUT
	WINSLOW RD	169.00	GRAVEL	COUNTY	BORE OR OPEN CUT
	LONG HORN TRAIL	169.37	GRAVEL	COUNTY	BORE OR OPEN CUT
	LONG HORN TRAIL	169.38	GRAVEL	COUNTY	BORE OR OPEN CUT
	S SUMMERS RD	170.02	GRAVEL	COUNTY	BORE OR OPEN CUT
	S BLACKS CORNERS RD	171.07	ASPHALT	COUNTY	BORE OR OPEN CUT
	S FAIRGROUNDS RD	171.64	GRAVEL	COUNTY	BORE OR OPEN CUT
	ST ROUTE M-53/ S VAN DYKE RD	171.91	ASPHALT	STATE	BORE
	BOWMAN RD	173.39	GRAVEL	COUNTY	BORE OR OPEN CUT
	ROSS RD	173.79	GRAVEL	COUNTY	BORE OR OPEN CUT
	FARLEY RD	173.87	GRAVEL	COUNTY	BORE OR OPEN CUT
	GLOVER RD	175.59	ASPHALT	COUNTY	BORE OR OPEN CUT
	HOLLOW CORNERS RD	176.07	GRAVEL	COUNTY	BORE OR OPEN CUT
	COCHRANE RD	178.12	GRAVEL	COUNTY	BORE OR OPEN CUT
	DRYDEN RD	178.26	ASPHALT	COUNTY	BORE OR OPEN CUT
	CAPAC RD	179.34	ASPHALT	COUNTY	BORE OR OPEN CUT
	TUBSPRING RD	180.10	GRAVEL	COUNTY	BORE OR OPEN CUT

**TABLE 1A-8**  
**Road and Railroad Crossing Methods**

Pipeline Facility	Crossing Name	Approximate MP	Type	Jurisdiction	Crossing Method
Market Segment	WHEELER RD	180.37	GRAVEL	COUNTY	BORE OR OPEN CUT
	SPERRY RD	181.56	GRAVEL	COUNTY	BORE OR OPEN CUT
	LATHROP RD	182.53	GRAVEL	COUNTY	BORE OR OPEN CUT
	BERVILLE RD	183.14	ASPHALT	COUNTY	BORE OR OPEN CUT
	GILBERT RD	183.62	GRAVEL	COUNTY	BORE OR OPEN CUT
	HOUGH RD	184.31	GRAVEL	COUNTY	BORE OR OPEN CUT
	MILLER RD	184.79	GRAVEL	COUNTY	BORE OR OPEN CUT
	RILEY CENTER RD	186.34	ASPHALT	COUNTY	BORE OR OPEN CUT
	BORDMAN RD	186.89	ASPHALT	COUNTY	BORE OR OPEN CUT
	DELAND RD	188.43	GRAVEL	COUNTY	BORE OR OPEN CUT
	PRATT RD	188.72	GRAVEL	COUNTY	BORE OR OPEN CUT
	WAHL RD	189.63	GRAVEL	COUNTY	BORE OR OPEN CUT
	WEBER RD	190.37	GRAVEL	COUNTY	BORE OR OPEN CUT
	ST ROUTE M-19/ MEMPHIS RIDGE RD	190.95	GRAVEL	STATE	BORE
	ANDREWS RD	192.00	GRAVEL	COUNTY	BORE OR OPEN CUT
	KRONNER RD	192.63	GRAVEL	COUNTY	HDD
	MESKILL RD	193.24	GRAVEL	COUNTY	BORE OR OPEN CUT
	BAUMAN RD	194.33	ASPHALT	COUNTY	BORE OR OPEN CUT
	CANADIAN NATIONAL RAILWAY	195.84	RAILROAD	RAILROAD	BORE
	HESSEN RD	197.28	GRAVEL	COUNTY	BORE OR OPEN CUT
	SHORT RD	197.91	GRAVEL	COUNTY	BORE OR OPEN CUT
	GRATIOT AVE	198.18	ASPHALT	COUNTY	BORE OR OPEN CUT
	BIG HAND RD	198.42	GRAVEL	COUNTY	BORE OR OPEN CUT
	PALMS RD	199.49	ASPHALT	COUNTY	BORE OR OPEN CUT
	TRUMBLE RD	200.42	GRAVEL	COUNTY	BORE OR OPEN CUT
	MAYER RD	200.71	GRAVEL	COUNTY	BORE OR OPEN CUT

**TABLE 1A-8**  
**Road and Railroad Crossing Methods**

Pipeline Facility	Crossing Name	Approximate MP	Type	Jurisdiction	Crossing Method
Market Segment	I 94	201.03	ASPHALT	FEDERAL	BORE
	I 94	201.05	ASPHALT	FEDERAL	BORE
	ALLINGTON RD	202.10	ASPHALT	COUNTY	BORE OR OPEN CUT
	FRED W MOORE HWY	202.25	ASPHALT	COUNTY	BORE OR OPEN CUT
	MCKINLEY RD	203.35	ASPHALT	COUNTY	BORE OR OPEN CUT
	ST CLAIR HWY	204.43	ASPHALT	FEDERAL	BORE
	WADHAMS RD	204.60	ASPHALT	COUNTY	BORE OR OPEN CUT
	PUTTYGUT RD	205.95	ASPHALT	FEDERAL	BORE
	INDIAN TRAIL	206.52	GRAVEL	CITY	BORE OR OPEN CUT
	INDIAN TRAIL	207.40	ASPHALT	CITY	BORE OR OPEN CUT
	RANGE RD	208.42	DIRT	COUNTY	BORE OR OPEN CUT
	CSX RAILROAD	208.44	RAILROAD	RAILROAD	BORE
	STATE ROUTE M-29 (River RD)	209.26	ASPHALT	STATE	HDD

**TABLE 1A-9**  
**Permits and Approvals**

Agency and Contact Information	Permit/Consultation	Anticipated Submittal Date	Anticipated Receipt of Approval/Permit
<b>FEDERAL</b>			
FERC	Section 7(c) Section 3(a) Presidential Permit for border crossing	February 2015	December 2015
U.S. Army Corps of Engineers Huntington District Pittsburgh District Buffalo District Detroit District	Permit - Section 404 of the Clean Water Act (CWA) Permit - Section 10 of the Rivers & Harbors Act	February 2015	December 2015
U.S. Environmental Protection Agency	As part of delegation of Section 404/401 to MIDEPA, may provide comments on the project	February 2015	December 2015
U.S. Department of Transportation Federal Highway Administration National Scenic Byways Program	Under Title 23, 162 USC, may provide comment on crossings of America's (scenic) byways.	February 2015	December 2015
U.S. Forest Service Wayne National Forest	Wayne National Forest, may provide comments on crossing within Forest Service (FS) boundary. No FS-owned land is crossed.	Initiated Consultation in June 2014	Consultation Complete (no FS land crossed)
U.S. Fish & Wildlife Service West Virginia Ecological Services Field Office Pennsylvania Ecological Services Field Office Ohio Ecological Services Field Office East Lansing Ecological Services Field Office	Consultation - Section 7 Endangered Species Act  Consultation - Migratory Bird Treaty Act and Bald and Golden Eagle Protection Act	Initiated June 25, 2014	December 2015
<b>WEST VIRGINIA</b>			
West Virginia Department of Environmental Protection Division of Water and Waste Management	Section 401 Water Quality Certification.	February 2015	December 2015
	NPDES Construction Stormwater approval	3 <sup>rd</sup> quarter 2015	December 2015
	Hydrostatic test water discharge permit	2 <sup>nd</sup> quarter 2016	3 <sup>rd</sup> quarter 2016
Division of Air Quality	Air permit	February 2015	1 <sup>st</sup> quarter 2016
West Virginia Division of Natural Resources Office of Land and Streams	Permit for crossings of regulated waterbodies, if applicable	1 <sup>st</sup> quarter 2015	December 2015
West Virginia Division of Culture and History	Consultation Section 106 National Historic Preservation Act	Initiated June 25, 2014	December 2015

**TABLE 1A-9  
Permits and Approvals**

Agency and Contact Information	Permit/Consultation	Anticipated Submittal Date	Anticipated Receipt of Approval/Permit
<b>PENNSYLVANIA</b>			
Pennsylvania Department of Environmental Protection Southwest (Pittsburgh) Regional Office	Erosion & Sediment Control General Permit (ESCGP)	3 <sup>rd</sup> quarter 2015	December 2015
	BDWM GP-8 Temporary Road Crossing Permit	3 <sup>rd</sup> quarter 2015	December 2015
	BDWM GP-5 Utility Line Crossing Permit	3 <sup>rd</sup> quarter 2015	4 <sup>th</sup> quarter 2015
	NPDES – Hydrostatic Test Water Discharge Permit/Approval	2 <sup>nd</sup> quarter 2016	3 <sup>rd</sup> quarter 2016
	Air Permit	February 2015	1 <sup>st</sup> quarter 2016
Pennsylvania Department of Conservation and Natural Resources Bureau of Recreation and Conservation	Consultation - State listed species	Initiated June 25, 2014	December 2015
Pennsylvania Fish and Boat Commission	Consultation - State listed species	Initiated June 25, 2014	December 2015
Pennsylvania Game Commission	Consultation - State listed species	Initiated June 25, 2014	December 2015
Pennsylvania Historical & Museum Commission	Consultation Section 106 National Historic Preservation Act	Initiated June 25, 2014	December 2015
<b>OHIO</b>			
Ohio Environmental Protection Agency Division of Surface Water	Section 401 Water Quality Certification	February 2015	December 2015
	Isolated Wetland Permits, if required	February 2015	December 2015
	NPDES Stormwater Permit	3 <sup>rd</sup> quarter 2015	4 <sup>th</sup> quarter 2015
	NPDES Hydrostatic Test Discharge Permit	2 <sup>nd</sup> quarter 2016	3 <sup>rd</sup> quarter 2016
Division of Air Pollution Control	Air Permit	February 2015	1 <sup>st</sup> quarter 2016
Ohio Department of Natural Resources	Consultation - State listed species	Initiated June 25, 2014	December 2015
Ohio State Historic Preservation Office Resource Protection and Review	Consultation Section 106 National Historic Preservation Act	Initiated June 25, 2014	December 2015
Stark County Park District	Consultation - Crossing of the Ohio & Erie Canalway at the Tuscarawas River.	Initiated June 25, 2014	December 2015

**TABLE 1A-9  
Permits and Approvals**

Agency and Contact Information	Permit/Consultation	Anticipated Submittal Date	Anticipated Receipt of Approval/Permit
<b>MICHIGAN</b>			
Michigan Dept. of Environmental Quality Water Resources Division Lansing District Office Jackson District Office Southeast Michigan District Office	Delegated 401/404. Inland Lakes and Streams (Part 301) and Wetland (Part 303) Permit	February 2015	January 2015
	Soil Erosion & Sedimentation Control (SESC) approval	3 <sup>rd</sup> quarter 2015	4 <sup>th</sup> quarter 2015
	Water Withdrawal Permit	2 <sup>nd</sup> quarter 2016	3 <sup>rd</sup> quarter 2016
	Groundwater (hydrostatic) Discharge Permit	2 <sup>nd</sup> quarter 2016	3 <sup>rd</sup> quarter 2016
	Coastal Zone Management consistency (St. Claire River)	January 2015	January 2015
	Submerged Lands Permit (St. Claire River)	January 2015	January 2015
Michigan Department of Natural Resources	Consultation - State listed species	Initiated June 25, 2014	December 2015
	Pinkney State Recreation Area crossing		
	Holly State Recreation Area crossing		
Michigan State Housing Development Authority Historic Preservation	Horseshoe Lake State Game Area crossing	Initiated June 25, 2014	December 2015
	Polly Ann Trail (converted railroad) crossing		
Michigan State Housing Development Authority Historic Preservation	Consultation Section 106 National Historic Preservation Act	Initiated June 25, 2014	December 2015

**TABLE 1A-10**  
**Proposed Minor Projects in the Vicinity of the Rover Pipeline Project**

Project Name	Label <sup>1</sup>	County	Street Address or Longitude/latitude	Description (type of project, size, schedule for development) <sup>2</sup>	Distance from Rover (mi)	Source	Direction
SULLIVAN DOHP IX, LLC	1	Ashland, OH	493 US Route 224 Sullivan Twp., OH	Wastewater Treatment Facilities for Dollar General - Installation of a septic tank and mound system at 493 U.S. Route 224	14.77	1	N
BELMONT BETTER HUNTING & FISHING CLUB	2	Belmont, OH	72095 Briarwood Lane Flushing Twp., OH	Onsite Sewage Treatment & Disposal System for the Belmont Club	8.26	1	SW
GULFPORT ENERGY - BAHMER	3	Belmont, OH	33765 Homer Reed Road Barnsville, OH	Facility extracts natural gas from on-site wells, separates the water and the condensate and pipes natural gas off-site.	10.07	1	N
GULFPORT ENERGY - AMANDA	4	Belmont, OH	35676 Rock River Road Barnsville, OH	Oil and Gas Well-Site Production facility.	29.71	1	N
HESS - KIRKWOOD A PRODUCTION FACILITY	5	Belmont, OH	32440 Brooks Road Barnsville, OH	Oil and gas production facility.	6.67	1	w
GULFPORT ENERGY - BROTHERS	6	Belmont, OH	32501 CAT HOLLOW RD BARNESVILLE, OH	Oil and Gas Well-Site Production facility.	10.39	1	N
GULFPORT ENERGY - DUVALL	7	Belmont, OH	38014 FLAT ROCK RD BARNESVILLE, OH	Oil and Gas Well-Site Production facility.	8.39	1	N
GULFPORT ENERGY - PERKINS	8	Belmont, OH	43801 JOHN JARRETT RD BELMONT, OH	Oil and Gas Well-Site Production facility.	4.96	1	W
GULFPORT ENERGY - SANDRA	9	Belmont, OH	MCMILLAN RD BETHESDA, OH	Oil and Gas Well-Site Production facility.	7.68	1	W
GULFPORT ENERGY - SWALLIE	10	Belmont, OH	65505 MT. OLIVETT RD BARNESVILLE, OH	Oil and Gas Well-Site Production facility.	8.77	1	W
Bailey-PVS Oxides, LLC	11	Fulton, OH	6191 County Road 10 Delta, Ohio	Hazardous waste closure plan for clean closure by removal and decontamination of the retention pond, soils and storage tank area of the former Bailey-PVS Oxides, LLC facility.	10.17	1	E
Tall Timbers West	12	Hancock, OH	County Road 212 MARION TWP. OH	Sanitary Sewers for Tall Timbers West on south side of County Road 212	8.01	1	SW
FINDLAY WATER TREATMENT PLANT	13	Hancock, OH	Cary St. & Front Street Findlay, OH	Phase 1 & 2 Waterline	11.26	1	SW

**TABLE 1A-10**  
**Proposed Minor Projects in the Vicinity of the Rover Pipeline Project**

Project Name	Label <sup>1</sup>	County	Street Address or Longitude/Latitude	Description (type of project, size, schedule for development) <sup>2</sup>	Distance from Rover (mi)	Source	Direction
AMERICAN ENERGY - UTICA LLC - LAWSON 19-11N-7W	14	Harrison, OH	23291 MILLERS FORK RD FREEPORT, OH	High volume horizontal hydraulic fracturing oil and gas well site production operations, including development of unpaved roadways and parking areas.	13.71	1	SW
HOPEDALE FRACTIONATION FACILITY	15	Harrison, OH	West of Hwy 151, N. of Giacobbi Rd GREEN TWP., OH	Initial installation PTIO for B003 (natural gas-fired process heater rated at a heat input capacity of 145 MMBtu/hr) and T002 (40,000-barrel natural gasoline storage tank equipped with a redundant mechanical VRU with a design control efficiency of 100%). The companies operating the Hopedale fractionation plant have announced plans to double capacity at the facility by the first quarter of 2015.	7.18	1	NW
NAPOLEON CITY	16	Henry, OH	PO BOX 151 NAPOLEON, OH	Detail plan for PWSID:OH3500811 PLAN NO:870643 regarding General Plan	5.81	1	N
GERKEN MATERIALS PLANT 18	17	Henry, OH	23005 County RD A ARCHBOLD, OH	Permit Renewal Using the General Permit Models for Roadways and Storage Piles	0.72	1	W
D&I SILICA MINGO JUNCTION	19	Jefferson, OH	2250 SOUTH COMMERCIAL AVE. MINGO JUNCTION, OH	New installation of D&I Silica, a frac sand transload facility at a railyard location. Includes paved roadways and an initial installation PTIO for sand handling.	11.22	1	S
Triad Hunter, LLC Stalder Production Facility	20	Monroe, OH	49947 Lee Twp SARDIS , OH	The facility (located 1.2 miles north-northwest of Sardis) will receive natural gas and produced water from production wells located on a contiguous well pad. The gas will be dehydrated and injected into pipelines for transportation to facilities owned by others for further processing.	0.12	1	NE
ANTERO RESOURCES - URBAN PAD	21	Monroe, OH	50100 JOHNSON RD Lewisville, OH	Oil and gas production facility with associated unpaved roadways and parking areas.	1.73	1	N
BLUE RACER MIDSTREAM LLC - BERNE PLANT	22	Monroe, OH	SWAZEY RD Lewisville, OH	Initial PTIO for an oil and gas processing plant.	0.16	1	S
GULFPORT ENERGY - JONES PAD	23	Monroe, OH	47699 KINGS HIGHWAY BEALLSVILLE, OH	Oil and Gas Well-Site Production facility.	1.21	1	W
CNX GAS COMPANY - NOBLE 18 WELL PAD	24	Noble, OH	50489 ROBERTA CLEARY RD SARAHSVILLE, OH	Natural Gas production facility.	2.85	1	NW



**TABLE 1A-10**  
**Proposed Minor Projects in the Vicinity of the Rover Pipeline Project**

Project Name	Label <sup>1</sup>	County	Street Address or Longitude/Latitude	Description (type of project, size, schedule for development) <sup>2</sup>	Distance from Rover (mi)	Source	Direction
MOORHEAD BROTHERS INC.	25	Noble, OH	NORTH OF OGLES RIDGE ROAD DEXTER CITY OH	Permission to open burn woody debris, shrubs, tree branches and stumps for disposal of land clearing waste along the pipeline corridor north of Ogles Ridge Road,	9.27	1	SW
ECLIPSE RESOURCES 1 LP - DUANE WEISEND PAD	26	Noble, OH	46939 BEAN RIDGE RD SUMMERFIELD, OH	Minor source construction and operation permit.	0.9	1	W
ANTERO RESOURCES - MONROE PAD	27	Noble, OH	51344 TOWNSHIP HIGHWAY 847 SUMMERFIELD, OH	Oil and gas production facility with associated unpaved roadways and parking areas	3.36	1	N
AK STEEL CORP - MANSFIELD OPERATIONS	28	Richland, OH	913 BOWMAN STREET MANSFIELD, OH	Increase burner capacity for three ladle preheaters from 10 million British thermal units per hour (MMBtu/hr) to 16.4 MMBtu/hr by installing new, low-NOX burners.	4.2	1	S
Sewer Replacement - Hammond Ave & West Temple Court	29	Richland, OH	HAMMOND, SWANGER, MINERVA & BRADFORD MANSFIELD, OH	Replacement of Sanitary Sewer.	6.48	1	SW
Tappan Park Drive Pump Station Installation	30	Richland, OH	NORTH SIDE OF TAPPAN PARK DRIVE ONTARIO, OH	City of Ontario – Install Pump Station and Force Main	6.23	1	SW
BELLVILLE VILLAGE WATER	31	Richland, OH	142 PARK PLACE BELLVILLE, OH	Water Distribution System, Phase 1A Improvements.	15.03	1	S
North Township Road Tank Installation	32	Seneca, OH	4998 N TR 179 ADAMS TWP. OH	Installation of a 2,000 gallon holding tank for wastewater treatment.	12.83	1	N
CHURCH AND DWIGHT CO INC	33	Seneca, OH	2501 EAST CO RD 34 OLD FORT, OH	Modification to Permit to include two (2) additional unloading emission units.	12.83	1	N
ROPPE CORPORATION	34	Seneca, OH	1602 N UNION ST FOSTORIA, OH	Renewal permit for a Banbury mixer, two calendar lines and an accessory line.	3.61	1	N
AQUA OHIO - MASSILLON PWS	35	Stark, OH	870 THIRD STMASSILLON, OH	12" Waterline Project.	8.76	1	N

**TABLE 1A-10**  
**Proposed Minor Projects in the Vicinity of the Rover Pipeline Project**

Project Name	Label <sup>1</sup>	County	Street Address or Longitude/Latitude	Description (type of project, size, schedule for development) <sup>2</sup>	Distance from Rover (mi)	Source	Direction
MASSILLON ASPHALT CO	36	Stark, OH	1833 RIVERSIDE DRIVE NW MASSILLON, OH	Renewal permit for drum mix, hot mix asphalt (HMA) plant. Continuous operation, maximum production capacity 300 tons per hour. The aggregate dryer, rated heat input capacity of 120 million Btu per hour, burns natural gas, on-spec used oil and #2 fuel oil. The aggregate mix includes limestone, sand and gravel. Recycled asphalt pavement (RAP) added to the raw ingredient mix. Particulate matter emissions controlled by a fabric filter (baghouse).	9.23	1	N
CANTON DROP FORGE	37	Stark, OH	4575 SOUTHWAY STREET SW CATON, OHIO 44706	Hazardous waste closure plan for clean closure at the Canton facility.	7.82	1	N
ALLIANCE CASTING CO. LLC	38	Stark, OH	1001 E BROADWAY ST ALLIANCE, OH	Installation of an EMI CB800 Core Making Line at an existing steel foundry. Core Making Line to consist of three sand silos, three electrically heated sand heaters, a sand/resin mixer and the CB800 Core Machine. Sources controlled by baghouse and scrubber.	24.31	1	NE
Fairhope Pump Station Rehabilitation	39	Stark, OH	4619 LOUISVILLE ROAD LOUISVILLE, OH	Add Gravity Sewer, Pump Station and Force Main for the Fairhope Pump Station Rehabilitation - Project 577	12.45	1	NE
GRADALL INDUSTRIES INC.	40	Tuscarawas, OH	406 MILL AVE. SW NEW PHILADELPHIA, OH	Renewal permit for touch-up/repair and to transition the facility from synthetic minor status due to the replacement of emissions units R001 and R003-R005 with a powder coating system.	8.32	1	SW
THE BELDEN BRICK COMPANY	41	Tuscarawas, OH	475 DOVER ROAD SUGARCREEK, OH	Modify the crushing and screening equipment on its property.	12.46	1	S
ANIE TREMBLAY, CHIEF OPERATING OFF., TREMCAR USA, INC.	42	Tuscarawas, OH	436 12TH STREET N.E. STRASBURG, OHIO 44680	Hazardous waste closure plan for the outside soils and interior paint room of the Tremcar facility.	4.29	1	S
AKRON BRASS CO	43	Wayne, OH	1415 EAST BOWMAN ST WOOSTER, OH	Initial installation of sand handling system for brass foundry.	3.99	1	N
Jefferson Street Sanitary Sewer Extension	44	Wood, OH	JEFFERSON STREET PERRYSBURG, OH	Sanitary Sewer Extension.	19.77	1	NE

**TABLE 1A-10**  
**Proposed Minor Projects in the Vicinity of the Rover Pipeline Project**

Project Name	Label <sup>1</sup>	County	Street Address or Longitude/latitude	Description (type of project, size, schedule for development) <sup>2</sup>	Distance from Rover (mi)	Source	Direction
DTE Gas Company, Columbus Compressor Station	45	St. Clair, MI	1647 Caughill Road Columbus, Michigan 48063	Install new tri-ethylene glycol dehydration unit at the Columbus Compressor Station.	0.73	2	S
ALLIED WASTE SYSTEMS, INC.- PONTIAC TRANSFER STATION	46	Oakland, MI	1633 Highwood W Pontiac, MI	Renewal of a transfer station and processing plant construction permit on the existing property.	16.28	2	S
RANGE RESOURCES A & D FERGUSON DEV UNIT 6H & 7H	47	Washington, PA	40.291136 / -80.247886	Drill & Operate Well Permit.	10.07	3	SE
RICE DRILLING B LLC CAPTAIN JACK SPARROW 1H & 3H	48	Washington, PA	40.063013 / -79.989097	Drill & Operate Well Permit.	29.71	3	E
CNX GAS CO LLC COLVIN MOR42AHS	49	Washington, PA	39.98208 / -80.410883	Drill & Operate Well Permit.	6.67	3	E
CNX GAS CO LLC CONSOL MOR30AHS, MOR30CHS, MOR30DHS, MOR30EHS, and MOR30HHS	50	Washington, PA	39.992044 / -80.410741	Drill & Operate Well Permit.	6.83	3	E
RANGE RESOURCES DMC PROPERTIES (EAST) UNIT 12H and 13 H	51	Washington, PA	40.119358 / -80.382786	Drill & Operate Well Permit.	13.31	3	NE
RANGE RESOURCES JEFFRIES ELISABETH 11512 2H & 4H	52	Washington, PA	40.233713 / -80.116666	Drill & Operate Well Permit.	17.64	3	SE
RANGE RESOURCES KENDALL UNIT 10H	53	Washington, PA	40.405877 / -80.32668	Drill & Operate Well Permit.	1.67	3	E
RANGE RESOURCES MALACHOSKY EDWARD 11752 2H, 3H, and 4H	54	Washington, PA	40.217219 / -80.087	Drill & Operate Well Permit.	19.56	3	SE

**TABLE 1A-10**  
**Proposed Minor Projects in the Vicinity of the Rover Pipeline Project**

Project Name	Label <sup>1</sup>	County	Street Address or Longitude/latitude	Description (type of project, size, schedule for development) <sup>2</sup>	Distance from Rover (mi)	Source	Direction
RANGE RESOURCES MCC PARTNERS (WEST) UNIT 9H	55	Washington, PA	40.33725 / -80.443766	Drill & Operate Well Permit.	6.4	3	S
RANGE RESOURCES PAREES UNIT 6H	56	Washington, PA	40.391716 / -80.297672	Drill & Operate Well Permit.	3.44	3	E
EQT PRODUCTION CO R SMITH 592298	57	Washington, PA	40.164722 / -79.944444	Drill & Operate Well Permit.	17.65	3	E
CHEVRON SARGENT UNIT 10H	58	Washington, PA	40.039494 / -80.067297	Drill & Operate Well Permit.	25.31	3	E
RANGE RESOURCES STEWART TRUST UNIT 2H	59	Washington, PA	40.203069 / -80.332511	Drill & Operate Well Permit.	14.36	3	S
ROBINSON POWER CO/BEECH HOLLOW ENERGY	60	Washington, PA	563 ROUTE 18 BURGETTSTOWN, PA 15021-2120	Under construction	1.22	3	S
EQT Gathering, LLC Mercury Station	62	Wetzel, WV	UTM: 538.80 km Easting, 4,378.78 km Northing (Zone 17) Mobley, WV	Revise the gas throughputs for the existing glycol dehydration units and liquid throughputs for the existing produced fluids tanks, as well as adding a minor source to the equipment list. The Mercury Station consists of two (2) triethylene glycol (TEG) dehydration units each permitted at 120 million standard cubic feet per day (mmscfd) with associated reboilers (each rated at 1.54 MMBTU/hr) and enclosed flares (rated at 12 MMBTU/hr), miscellaneous heating sources, two (2) produced fluids tanks (8,820 gallons each), and two (2) 2,000 gallon TEG storage tanks.	17.07	4	N
Antero Resources Corporation Forest Pad	63	Tyler, WV	UTM: 522.393 km Easting, 4,360 km Northing (Zone 17) Alma, WV	Modification of a natural gas production facility to install and operate a production unit compressor, eight (8) additional heater treaters, eight (8) additional condensate tanks and increase in condensate production.	3.23	4	NE
Triad Hunter, LLC Spencer Well Pad Station	64	Tyler, WV	UTM: 507.605 km Easting, 4,372.161 km Northing (Zone 17) Middlebourne, WV	Install two additional condensate tanks, a vapor combustor and four additional line heaters.	2.24	4	E

**TABLE 1A-10**  
**Proposed Minor Projects in the Vicinity of the Rover Pipeline Project**

Project Name	Label <sup>1</sup>	County	Street Address or Longitude/latitude	Description (type of project, size, schedule for development) <sup>2</sup>	Distance from Rover (mi)	Source	Direction
Hummel Road Bridge Project	72	Richland, OH	Hummel Road Shelby, OH	Bridge replacement project scheduled for 2017.	0.86	5	S
Christian Life Mennonite Church Project	66	Stark, OH	11663 Kaylot Road SW, Sugarcreek Township, OH	Construction of two additions (40' x 160' and 100' x 96') and parking.	2.64	6	S
CBS Outdoor - ASTI Environmental	73	Oakland, MI	88 Custer Ave Detroit, MI 48202	Culverts.	37.78	7	S
Assembly Park LLC	74	Oakland, MI	28987 South Wixom Rd Wixom, MI 48393	Construct commercial building in wetlands.	21.61	7	E
Oakland University Capital Plan	75	Oakland, MI	13019 Pauline Drive Shelby Twp, MI 48315	Culverts.	17.81	7	S
Consumers Energy – Tetra Tech	77	Oakland, MI	1945 West Parnall Rad Jackson, MI 49201	Minnow Pond Drain. Gas pipeline - fills.	22.86	7	
The Regents of University of Michigan	78	Washtenaw, MI	Huron River	Staff gauge.	7.72	7	E
David Childs – Boardwalk Construction	79	Oakland, MI	22195 Beck Road Novi, MI	Path (boardwalk) through wetlands.	22.27	7	E
City of the Village of Clarkston Bridge project	80	Oakland, MI	375 Depot Street Clarkston, MI 48346	Branch of the Clinton River bridge.	10.33	7	S
Lakeside Blvd Homes LLC	81	Macomb, MI	59129 Van Dyke Ave Washington Twp, 48094	Construct residential building.	14.89	7	S
DTE Gas Company	82	Macomb, MI	Lenox Township	Gas pipeline. Fistler Drain.	0	7	NA
Sujak Engineering PLC	83	Oakland, MI	862 Shady Hollow Circle Bloomfield Hills, MI	Rouge River. Construct residential building. Fill activity.	25.32	7	E
Pulte Homes Inc.	84	Oakland, MI	100 Bloomfield Hills Pkwy, Ste 150 Bloomfield Hills, MI 48304	Construct residential building.	23.6	7	E
Bridge - St. Clair County Road Commission	85	St. Clair, MI	21 Airport Drive St. Clair, MI 48079	Bridge and Riprap shore protection for Apply Drain.	6.99	7	NE
Black Creek Sled Hill	86	Genesee, MI	1280 North Irish Road Davison, MI 48423	Construction of parking areas near Black Creek.	8.49	7	N

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Project Name	Label <sup>1</sup>	County	Street Address or Longitude/latitude	Description (type of project, size, schedule for development) <sup>2</sup>	Distance from Rover (mi)	Source	Direction
Bridge - Maritime Corporation	87	Oakland, MI	28836 Willow Creek Farmington Hills, MI 48331	Bridge projects.	25.84	7	E
Dredging - The Pond Guy, Inc.	88	Macomb, MI	7007 28 Mile Road Washington, MI 48094	Dredging activities.	14.38	7	S
Michael Poupore – Driveway Modifications	89	Washtenaw, MI	3362 Oak Park Drive Saline, MI 48176	Driveway construction with associated culverts.	10.02	7	E
Robert Thrasher – Culvert installation	90	Washtenaw, MI	8001 Mester Road Chelsea, MI 48118	Culverts for driveway.	3.52	7	W
Belle River Construction	91	St. Clair, MI	737 Belle River East China, MI 48054	Construct building.	3.54	7	S
Lake Orion Piling	92	Oakland, MI	622 Detroit Ave Lake Orion, MI 48362	Piling activities.	12.59	7	S
Canal of Lake St. Clair	93	Macomb, MI	22679 Oconnor St. Clair Shores, MI 48080	Dredge and fill activities.	28.68	7	S
Frank Parker Construction - Lake Huron Groin-Gabions	94	St. Clair, MI	22195 Beck Road Novi, MI	Piling and fill activity.	21.59	7	NW
Macomb County Dept. of Roads - Conklin Drain	95	Macomb, MI	117 S. Groesbeck Highway Mt. Clemens, MI 48043	Culverts-Public Transportation. Sidewalk construction.	19.71	7	S
Lapeer County Road Commission - North Branch Belle River	96	Lapeer, MI	820 Davis Lake Road Lapeer, MI 48446	Culverts-Public Transportation. Floodway project.	6.42	7	N
Washtenaw County Road Commission - Trib. To Saline River	97	Washtenaw, MI	555 N. Zeeb Road Ann Arbor, MI 48103	Culverts-Public Transportation. Dredge and fill activity.	6.36	7	E
M. Shapiro Development Company	98	Oakland, MI	31550 Northwestern Hwy Farmington Hills, MI 48334	Construct residential building. Wetland impacts.	25.69	7	E

**TABLE 1A-10  
Proposed Minor Projects in the Vicinity of the Rover Pipeline Project**

Project Name	Label <sup>1</sup>	County	Street Address or Longitude/latitude	Description (type of project, size, schedule for development) <sup>2</sup>	Distance from Rover (mi)	Source	Direction
<p><b>Source:</b></p> <ol style="list-style-type: none"> <li>Ohio – Comprehensive project list found at: <a href="http://www.epa.state.oh.us/Actions.aspx">http://www.epa.state.oh.us/Actions.aspx</a></li> <li>Michigan – Permit list for month of September found at: <a href="http://www.michigan.gov/deq/0,1607,7-135-3308_3325---,00.html">http://www.michigan.gov/deq/0,1607,7-135-3308_3325---,00.html</a></li> <li>Pennsylvania – Oil and gas permits from the past month found at <a href="http://www.depweb.state.pa.us/portal/server.pt/community/oil_and_gas/6003">http://www.depweb.state.pa.us/portal/server.pt/community/oil_and_gas/6003</a>. Energy facility currently under construction found at <a href="http://www.depweb.state.pa.us/portal/server.pt/community/oil_and_gas/6003">http://www.depweb.state.pa.us/portal/server.pt/community/oil_and_gas/6003</a></li> <li>West Virginia - NSR Permits for Review <a href="http://www.dep.wv.gov/daq/Pages/NSRPermitsforReview.aspx">http://www.dep.wv.gov/daq/Pages/NSRPermitsforReview.aspx</a></li> <li>Richland County, Ohio Projects (Blackwin<a href="http://chronicle.northcoastnow.com/2014/09/24/northeast-ohio-residents-turn-eyes-nexus-pipeline-proposal/">http://chronicle.northcoastnow.com/2014/09/24/northeast-ohio-residents-turn-eyes-nexus-pipeline-proposal/</a></li> <li>Christian Life Mennonite Church Project - Email Correspondence with Rachel Lewis - Senior Regional Planner, Stark County Regional Planning Commission.</li> <li>Michigan DEQ - Coastal and Inland Waters Permit Information System. <a href="http://www.deq.state.mi.us/ciwpis/">http://www.deq.state.mi.us/ciwpis/</a></li> </ol> <p><b>Notes</b></p> <ol style="list-style-type: none"> <li><a href="#">Projects Nos. 18, 61, 65, 67, 68, 69, 70, 71, and 76 were purposely left out of the numbering sequence of the projects in this table.</a></li> <li><a href="#">Information available on project Schedules is limited/uncertain but assumed to be somewhat concurrent with the estimated Rover construction season.</a></li> </ol>							

**TABLE 1A-11  
Proposed Major Projects in the Vicinity of the Rover Pipeline Project**

Project Name	Label	County	Street Address or Longitude/latitude	Description (type of project, size, schedule for development)	Distance from Rover (mi)	Applicable Resources Affected	Project Size	Status	Construction Schedule
Moundsville Power, LLC - Combined-Cycle Power Plant Project <sup>1</sup>	1	Marshall, WV	Moundsville, WV	A new combined-cycle combustion turbine (CT) electric power plant.	5.6	Air, noise, water	40 acres of 280 acre site	Permitted on County level	2015-2018
Blackfork Wind Energy Project <sup>2,3</sup>	2	Richland, OH	West of Shelby, North of Crestline and surrounding Village of Tiro, OH Northwest Richland County, OH and the north half of Crawford County, OH.	Includes 91 turbines, 494 feet high, capable of generating 200 megawatts of power with a life span of 20 to 25 years. In addition to the turbines, the project includes access roads, electrical collection lines, a construction-staging area, concrete-batch plant, substation, and an operation and maintenance facility.	0.3	Noise, visual, land use, wetlands	14,800 acres	Permitted pending Court case	October 2016 through 2017.
Spectra Energy Nexus Gas Transmission (NGT) Project <sup>4,5,6</sup>	3	Columbiana, Lorain, Medina, Stark, Summit, Wayne, and Carroll, Erie, Sandusky, Wood, Lucas, and Fulton County, Ohio. Washtenaw, Lenawee, Monroe, Oakland, Macomb, and St. Clair County, Michigan	Ohio, Michigan	The NGT project will originate in northeastern Ohio, and include approximately 250 miles of large diameter pipe capable of transporting at least 2 billion cubic feet per day of natural gas. The greenfield pipeline will extend from receipt points in eastern Ohio to interconnects with the existing pipeline grid in southeastern Michigan. The project will utilize both existing and expansion capacity on the DTE Gas transportation system and the Vector Pipeline (Vector) System to access Michigan markets, Chicago and the Dawn Hub.	Variable, More than 5 miles away at closest point.	*Geology, soils, sediments, water resources, wetlands, vegetation, wildlife, cultural resources, socioeconomics, land use and visual resources, air, and noise	250 miles long. Impact area TBD	Filed FERC Request for Prefiling process 12/23/14	In-service date: 4 <sup>th</sup> quarter of 2017



**TABLE 1A-11**  
**Proposed Major Projects in the Vicinity of the Rover Pipeline Project**

Project Name	Label	County	Street Address or Longitude/latitude	Description (type of project, size, schedule for development)	Distance from Rover (mi)	Applicable Resources Affected	Project Size	Status	Construction Schedule
Spectra Energy Ohio Pipeline Energy Network (OPEN) <sup>7, 8</sup>	4	Columbiana, Carroll, Jefferson, Belmont, & Monroe counties, Ohio	<a href="http://www.spectraenergy.com/Operations/New-Projects-and-Our-Process/New-Projects-in-US/Ohio-Pipeline-Energy-Network-OPEN/">http://www.spectraenergy.com/Operations/New-Projects-and-Our-Process/New-Projects-in-US/Ohio-Pipeline-Energy-Network-OPEN/</a>	The OPEN project will consist of approximately 76 miles of new 30-inch diameter pipeline and associated pipeline support facilities in Ohio, including a new compressor station, capable of transporting 550,000 dekatherms per day. Also included are reverse flow modifications at existing compressor stations along Texas Eastern's existing mainline in Ohio, Kentucky, Mississippi and Louisiana. FERC Docket No. CP14-68-000	Variable. Crosses Rover's Burgettstown Lateral and Majorsville Lateral	Geology, soils, sediments, water resources, wetlands, vegetation, wildlife, cultural resources, socioeconomics, land use and visual resources, air, and noise	1,563.6 acres	FERC EA Issued August 2014	Construction is scheduled for 2015 with a planned in-service date of November 2015.
Columbia Transmission Leach XPress Project <sup>9</sup>	5	Marshall County, WV; Fairfield, Hocking, Monroe and Morgan, Muskingum, Noble, Perry, Vinton, and Jackson OH	<a href="http://elibrary.ferc.gov:0/IDMWS/file_list.asp?document_id=14254912">http://elibrary.ferc.gov:0/IDMWS/file_list.asp?document_id=14254912</a>	The Leach XPress project will involve construction of approximately 127 miles of greenfield pipeline and two loops totaling 30 miles, abandonment of 27 miles of pipeline, three new compressor stations and modifications at two existing stations. The project will increase the capacity of Columbia Transmission's system by 1.5 billion cubic feet per day and will move regional gas supplies to various markets, including interconnections with Columbia Gulf in Leach, Kentucky.. FERC Docket No. PF14-23-000	Parallels Rover's Seneca Lateral	*Geology, soils, sediments, water resources, wetlands, vegetation, wildlife, cultural resources, socioeconomics, land use and visual resources, air, and noise	127 miles long. Impact area TBD	In FERC Review Process	Construction is scheduled to begin in November 2016 with an in-service date of November 2017

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**Proposed Major Projects in the Vicinity of the Rover Pipeline Project**

Project Name	Label	County	Street Address or Longitude/latitude	Description (type of project, size, schedule for development)	Distance from Rover (mi)	Applicable Resources Affected	Project Size	Status	Construction Schedule
Equitrans Ohio Valley Connector Project <sup>10,11</sup>	6	Marion, Wetzel, Marshall Counties, WV Monroe County, Ohio	<a href="http://ohiovalleyconnector.com/maps/">http://ohiovalleyconnector.com/maps/</a>	The Ohio Valley Connector project will involve approximately 50 miles of pipeline and two new compressor stations to transport approximately 900,000 dekatherms per day of natural gas produced in the central Appalachian Basin to interconnections with the Texas Eastern and Rockies Express pipelines. FERC Docket No. PF14-13-000	Northern terminus of Equitrans Project is in vicinity of Rover's Seneca Lateral	*Geology, soils, sediments, water resources, wetlands, vegetation, wildlife, cultural resources, socioeconomics, land use and visual resources, air, and noise	50 miles long, Impact area TBD	In FERC Review Process	Begin construction in August 2015 to meet an in-service date of May 2016.
Mountain Valley Pipeline <sup>12</sup>	7	Located in 16 counties beginning in Wetzel County, West Virginia to the terminus in Pittsylvania County, Virginia	<a href="http://mountainvalleypipeline.info/">http://mountainvalleypipeline.info/</a>	The 36-42-inch diameter, 286.4 mile pipeline will deliver gas from Equitrans' Mainline and sunrise Transmission Systems, and from gathering systems and natural gas production facilities located near the pipeline to the proposed tie-in point near the Transco Zone 5 compressor station 165.	Variable Passes several miles east of the terminus of Rover's supply lateral in Doddridge, WV	*Geology, soils, sediments, water resources, wetlands, vegetation, wildlife, cultural resources, socioeconomics, land use and visual resources, air, and noise	286.4 miles long. Impact area TBD	In FERC Review Process	Begin construction December 2016 to meet in-service date of 4 <sup>th</sup> quarter of 2018

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**Proposed Major Projects in the Vicinity of the Rover Pipeline Project**

Project Name	Label	County	Street Address or Longitude/latitude	Description (type of project, size, schedule for development)	Distance from Rover (mi)	Applicable Resources Affected	Project Size	Status	Construction Schedule
ANR East Pipeline Project <sup>13</sup>	8	Originating at the Cadiz Gas Plant in southeastern Ohio and terminating at the ANR Joliet Hub in Lake County, Indiana	<a href="https://www.anrpl.com/documents/CMA/WhatsNew/ANR%20East%20Pipeline%20Project_Brochure.pdf">https://www.anrpl.com/documents/CMA/WhatsNew/ANR%20East%20Pipeline%20Project_Brochure.pdf</a>	The ANR East Pipeline Project will include the construction of a new pipeline originating at the Cadiz Gas Plant in southeastern Ohio and terminating at the ANR Joliet Hub in Lake County, Indiana. The new build will consist of approximately 320 miles of large diameter, 1440 psig MAOP pipeline and up to 140,000 HP of compression.	Variable Crosses Rover's Mainline in two locations and parallels Mainline in other locations	*Geology, soils, sediments, water resources, wetlands, vegetation, wildlife, cultural resources, socioeconomics, land use and visual resources, air, and noise	320 miles long. Impact area TBD	Not yet filed with FERC	In-service date of 2018
UTOPIA Project <sup>14</sup>	9	Harrison County, Ohio, to Kinder Morgan's Cochin Pipeline near Riga, Michigan,	<a href="http://www.kindermorgan.com/business/products_pipelines/utopia/">http://www.kindermorgan.com/business/products_pipelines/utopia/</a>	The Project is a 240-mile, 12-inch diameter pipeline from Harrison County, Ohio, to Kinder Morgan's Cochin Pipeline near Riga, Michigan, where the company would then move product eastward to Windsor, Ontario, Canada. UTOPIA would transport previously refined or fractionated natural gas liquids (NGLs), including ethane and propane, with an initial 50,000 barrels per day (bpd) of capacity, which is expandable to more than 75,000 bpd.	Variable Crosses Rover in two locations	*Geology, soils, sediments, water resources, wetlands, vegetation, wildlife, cultural resources, socioeconomics, land use and visual resources, air, and noise	240 miles long. Impact area TBD	Not yet filed with FERC	The new pipeline is expected to be in service by early 2018.

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**Proposed Major Projects in the Vicinity of the Rover Pipeline Project**

Project Name	Label	County	Street Address or Longitude/latitude	Description (type of project, size, schedule for development)	Distance from Rover (mi)	Applicable Resources Affected	Project Size	Status	Construction Schedule
Utica Marcellus Texas Pipeline <sup>15</sup>	10	Multiple Counties beginning in Louisiana and terminating in Pennsylvania	<a href="http://www.kindermorgan.com/projects/ygrade">http://www.kindermorgan.com/projects/ygrade</a>	The project involves the abandonment and conversion of over 1,000 miles of natural gas service on TGP, the construction of approximately 200 miles of new pipeline from Louisiana to Texas, and 155 miles of new laterals in Pennsylvania, Ohio and West Virginia. The pipeline, which will provide connectivity to major processing and fractionation hubs in the basin, will terminate in Mont Belvieu, Texas, and have a maximum design capacity of 375,000 bpd for transporting Y-grade natural gas liquids	Variable Crosses Rover in two locations	*Geology, soils, sediments, water resources, wetlands, vegetation, wildlife, cultural resources, socioeconomics, land use and visual resources, air, and noise	Conversion of over 1,000 miles of natural gas service on TGP, 200 miles of new pipeline from Louisiana to Texas, and 155 miles of new laterals in Pennsylvania	Not yet filed with FERC	In Service Date of 2018

Sources:

1. West Virginia - NSR Permits for Review <http://www.dep.wv.gov/daq/Pages/NSRPermitsforReview.aspx>
2. Richland County, Ohio Projects (Blackwind & Hummel Road Bridge) - Letter correspondence with James P. Lichtenwalter, PE, PS - Deputy County Engineer.
3. Black Fork Wind - <https://www.wind-watch.org/news/2014/04/06/slow-wind-black-fork-energy-project-on-hold-for-now/>
4. <http://www.spectraenergy.com/Operations/New-Projects-and-Our-Process/New-Projects-in-US/NEXUS-Gas-Transmission/>
5. <http://www.enbridge.com/NexusGasTransmissionProject.aspx>
6. Nexu Gas Transmission Project: [http://www.spectraenergy.com/content/documents/Asset\\_Maps\\_and\\_Fact\\_Sheets/NEXUS\\_Gas\\_Transmission\\_Open\\_Season\\_Brochure\\_FINAL.pdf](http://www.spectraenergy.com/content/documents/Asset_Maps_and_Fact_Sheets/NEXUS_Gas_Transmission_Open_Season_Brochure_FINAL.pdf)
7. Ohio Pipeline Energy Network (Open) <http://www.spectraenergy.com/Operations/New-Projects-and-Our-Process/New-Projects-in-US/Ohio-Pipeline-Energy-Network-OPEN/>
8. OPEN FERC Environmental Assessment: [http://elibrary.ferc.gov:0/IDMWS/file\\_list.asp?document\\_id=14245106](http://elibrary.ferc.gov:0/IDMWS/file_list.asp?document_id=14245106)
9. Columbia Transmissions Leach Express Project: [http://elibrary.ferc.gov:0/IDMWS/file\\_list.asp?document\\_id=14254912](http://elibrary.ferc.gov:0/IDMWS/file_list.asp?document_id=14254912)
10. Connector Project: <http://ohiovalleyconnector.com/maps/>
11. Equitrans RR1: [http://elibrary.ferc.gov:0/IDMWS/file\\_list.asp?document\\_id=14270363](http://elibrary.ferc.gov:0/IDMWS/file_list.asp?document_id=14270363)
12. Mountain Valley Pipeline: <http://mountainvalleypipeline.info/>
13. ANR East Pipeline Project: [https://www.anrpl.com/documents/CMA/WhatsNew/ANR%20East%20Pipeline%20Project\\_Brochure.pdf](https://www.anrpl.com/documents/CMA/WhatsNew/ANR%20East%20Pipeline%20Project_Brochure.pdf)
14. UTOPIA Pipeline Project: [http://www.kindermorgan.com/business/products\\_pipelines/utopia/](http://www.kindermorgan.com/business/products_pipelines/utopia/)
15. Utica Marcellus Texas Pipeline Project: <http://www.kindermorgan.com/projects/ygrade>

Notes:

\* Detailed environmental impact information not available: Assumed range of environmental impacts based on typical impacts from gas pipeline projects.