

Table ENG-4. - Building Site Development

Roanoke County and the Cities of Roanoke and Salem, Virginia

The information in this table indicates the dominant soil condition, but does not eliminate the need for onsite investigation. The numbers in the value column range from 0.01 to 1.00. The larger the value, the greater the potential limitation. Limiting features in this report are limited to the top 5 limitations. Additional limitations may exist.

Map Symbol and Soil Name	Pct of Map Unit	Local Roads and Streets		Shallow Excavations		Lawns and Landscaping	
		Rating Class and Limiting Features	Value	Rating Class and Limiting Features	Value	Rating Class and Limiting Features	Value
1A:							
Alderflats	90	Very limited		Very limited		Very limited	
		Depth to saturated zone	1.00	Depth to saturated zone	1.00	Depth to saturated zone	1.00
		Frost action	1.00	Cutbanks cave	1.00		
		Low strength	1.00				
2B:							
Allegheny	75	Somewhat limited		Somewhat limited		Not limited	
		Shrink-swell	<0.01	Cutbanks cave	0.10		
2C:							
Allegheny	85	Somewhat limited		Somewhat limited		Somewhat limited	
		Slope	0.37	Slope	0.37	Slope	0.37
		Shrink-swell	<0.01	Cutbanks cave	0.10		
3C3:							
Chilhowie	75	Very limited		Very limited		Somewhat limited	
		Shrink-swell	1.00	Depth to hard bedrock	1.00	Slope	0.37
		Low strength	1.00	Too clayey	1.00	Depth to bedrock	0.16
		Frost action	0.50	Slope	0.37	Droughty	0.02
3D3:							
Chilhowie	80	Very limited		Very limited		Very limited	
		Shrink-swell	1.00	Depth to hard bedrock	1.00	Slope	1.00
		Slope	1.00	Slope	1.00	Depth to bedrock	0.16
		Low strength	1.00	Too clayey	1.00	Droughty	0.02
3E3:							
Chilhowie	70	Very limited		Very limited		Very limited	
		Shrink-swell	1.00	Depth to hard bedrock	1.00	Slope	1.00
		Slope	1.00	Slope	1.00	Depth to bedrock	0.16
		Low strength	1.00	Too clayey	1.00	Droughty	0.02
4E:							
Chilhowie	85	Very limited		Very limited		Very limited	
		Shrink-swell	1.00	Depth to hard bedrock	1.00	Slope	1.00
		Slope	1.00	Slope	1.00	Depth to bedrock	0.16
		Low strength	1.00	Too clayey	1.00	Droughty	0.02
5C:							
Chiswell	45	Somewhat limited		Very limited		Very limited	
		Depth to soft bedrock	1.00	Depth to soft bedrock	1.00	Depth to bedrock	1.00
		Frost action	0.50	Slope	0.37	Droughty	1.00
		Slope	0.37	Cutbanks cave	0.10	Slope	0.37

Table ENG-4. - Building Site Development - Continued

Roanoke County and the Cities of Roanoke and Salem, Virginia

Map Symbol and Soil Name	Pct of Map Unit	Local Roads and Streets		Shallow Excavations		Lawns and Landscaping	
		Rating Class and Limiting Features	Value	Rating Class and Limiting Features	Value	Rating Class and Limiting Features	Value
5C:							
Litz	30	Somewhat limited		Somewhat limited		Somewhat limited	
		Frost action	0.50	Depth to soft bedrock	0.46	Content of large stones	0.54
		Slope	0.37	Slope	0.37	Depth to bedrock	0.46
		Shrink-swell	<0.01	Cutbanks cave	0.10	Slope	0.37
5D:							
Chiswell	45	Very limited		Very limited		Very limited	
		Slope	1.00	Depth to soft bedrock	1.00	Depth to bedrock	1.00
		Depth to soft bedrock	1.00	Slope	1.00	Slope	1.00
		Frost action	0.50	Cutbanks cave	0.10	Droughty	1.00
Litz	30	Very limited		Very limited		Very limited	
		Slope	1.00	Slope	1.00	Slope	1.00
		Frost action	0.50	Depth to soft bedrock	0.46	Content of large stones	0.54
		Shrink-swell	<0.01	Cutbanks cave	0.10	Depth to bedrock	0.46
5E:							
Chiswell	45	Very limited		Very limited		Very limited	
		Slope	1.00	Depth to soft bedrock	1.00	Depth to bedrock	1.00
		Depth to soft bedrock	1.00	Slope	1.00	Slope	1.00
		Frost action	0.50	Cutbanks cave	0.10	Droughty	1.00
Litz	25	Very limited		Very limited		Very limited	
		Slope	1.00	Slope	1.00	Slope	1.00
		Frost action	0.50	Depth to soft bedrock	0.46	Content of large stones	0.54
		Shrink-swell	<0.01	Cutbanks cave	0.10	Depth to bedrock	0.46
6C:							
Chiswell	35	Somewhat limited		Very limited		Very limited	
		Depth to soft bedrock	1.00	Depth to soft bedrock	1.00	Depth to bedrock	1.00
		Frost action	0.50	Cutbanks cave	0.10	Droughty	1.00
		Slope	0.04	Slope	0.04	Content of large stones	0.08
Litz	25	Somewhat limited		Somewhat limited		Somewhat limited	
		Frost action	0.50	Depth to soft bedrock	0.46	Content of large stones	0.54
		Slope	0.04	Cutbanks cave	0.10	Depth to bedrock	0.46
		Shrink-swell	<0.01	Slope	0.04	Droughty	0.24
Urban land	20	Not Rated		Not Rated		Not Rated	
6D:							
Chiswell	35	Very limited		Very limited		Very limited	
		Slope	1.00	Depth to soft bedrock	1.00	Depth to bedrock	1.00
		Depth to soft bedrock	1.00	Slope	1.00	Slope	1.00
		Frost action	0.50	Cutbanks cave	0.10	Droughty	1.00

Table ENG-4. - Building Site Development - Continued

Roanoke County and the Cities of Roanoke and Salem, Virginia

Map Symbol and Soil Name	Pct of Map Unit	Local Roads and Streets		Shallow Excavations		Lawns and Landscaping	
		Rating Class and Limiting Features	Value	Rating Class and Limiting Features	Value	Rating Class and Limiting Features	Value
6D:							
Litz	25	Very limited		Very limited		Very limited	
		Slope	1.00	Slope	1.00	Slope	1.00
		Frost action	0.50	Depth to soft bedrock	0.46	Content of large stones	0.54
		Shrink-swell	<0.01	Cutbanks cave	0.10	Depth to bedrock	0.46
Urban land	20	Not Rated		Not Rated		Not Rated	
7A:							
Clubcaf	75	Very limited		Very limited		Very limited	
		Depth to saturated zone	1.00	Depth to saturated zone	1.00	Depth to saturated zone	1.00
		Frost action	1.00	Flooding	0.60	Flooding	0.60
		Flooding	1.00	Cutbanks cave	0.10		
8A:							
Combs	75	Very limited		Somewhat limited		Somewhat limited	
		Flooding	1.00	Flooding	0.60	Flooding	0.60
				Cutbanks cave	0.10		
Clubcaf	5	Not Rated		Not Rated		Not Rated	
9B:							
Cotaco	75	Somewhat limited		Very limited		Somewhat limited	
		Depth to saturated zone	0.19	Depth to saturated zone	1.00	Depth to saturated zone	0.19
		Shrink-swell	<0.01	Cutbanks cave	1.00		
Purdy	3	Not Rated		Not Rated		Not Rated	
9C:							
Cotaco	80	Somewhat limited		Very limited		Somewhat limited	
		Slope	0.37	Depth to saturated zone	1.00	Slope	0.37
		Depth to saturated zone	0.19	Cutbanks cave	1.00	Depth to saturated zone	0.19
		Shrink-swell	<0.01	Slope	0.37		
Purdy	3	Not Rated		Not Rated		Not Rated	
10D:							
Dekalb	80	Very limited		Very limited		Very limited	
		Slope	1.00	Depth to hard bedrock	1.00	Slope	1.00
		Depth to hard bedrock	0.46	Slope	1.00	Droughty	0.95
				Cutbanks cave	0.10	Depth to bedrock	0.46
11C:							
Dekalb	80	Somewhat limited		Very limited		Somewhat limited	
		Depth to hard bedrock	0.46	Depth to hard bedrock	1.00	Droughty	0.95
		Slope	0.37	Slope	0.37	Depth to bedrock	0.46
				Cutbanks cave	0.10	Slope	0.37

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		Rating Class and Limiting Features	Value	Rating Class and Limiting Features	Value	Rating Class and Limiting Features	Value
11D:							
Dekalb	80	Very limited		Very limited		Very limited	
		Slope	1.00	Depth to hard bedrock	1.00	Slope	1.00
		Depth to hard bedrock	0.46	Slope	1.00	Droughty	0.95
				Cutbanks cave	0.10	Depth to bedrock	0.46
11E:							
Dekalb	80	Very limited		Very limited		Very limited	
		Slope	1.00	Depth to hard bedrock	1.00	Slope	1.00
		Depth to hard bedrock	0.46	Slope	1.00	Droughty	0.95
				Cutbanks cave	0.10	Depth to bedrock	0.46
11F:							
Dekalb	75	Very limited		Very limited		Very limited	
		Slope	1.00	Depth to hard bedrock	1.00	Slope	1.00
		Depth to hard bedrock	0.46	Slope	1.00	Droughty	0.95
				Cutbanks cave	0.10	Depth to bedrock	0.46
12F:							
Dekalb	55	Very limited		Very limited		Very limited	
		Slope	1.00	Depth to hard bedrock	1.00	Slope	1.00
		Depth to hard bedrock	0.46	Slope	1.00	Droughty	0.95
				Cutbanks cave	0.10	Depth to bedrock	0.46
Rock outcrop	20	Not Rated		Not Rated		Not Rated	
13A:							
Derroc	75	Very limited		Very limited		Somewhat limited	
		Flooding	1.00	Cutbanks cave	1.00	Content of large stones	0.99
		Content of large stones	0.87	Content of large stones	0.87	Flooding	0.60
		Frost action	0.50	Flooding	0.60	Droughty	0.31
Clubcaf	3	Not Rated		Not Rated		Not Rated	
14:							
Dumps	85	Not Rated		Not Rated		Not Rated	
15C:							
Edgemont	75	Very limited		Somewhat limited		Somewhat limited	
		Low strength	1.00	Slope	0.37	Slope	0.37
		Frost action	0.50	Cutbanks cave	0.10	Content of large stones	<0.01
		Slope	0.37				
15D:							
Edgemont	80	Very limited		Very limited		Very limited	
		Slope	1.00	Slope	1.00	Slope	1.00
		Low strength	1.00	Cutbanks cave	0.10	Content of large stones	<0.01
		Frost action	0.50				
15E:							

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		Rating Class and Limiting Features	Value	Rating Class and Limiting Features	Value	Rating Class and Limiting Features	Value
15E:							
Edgemont	80	Very limited		Very limited		Very limited	
		Slope	1.00	Slope	1.00	Slope	1.00
		Low strength	1.00	Cutbanks cave	0.10	Content of large stones	<0.01
		Frost action	0.50				
16B:							
Edneyville	80	Somewhat limited		Somewhat limited		Not limited	
		Frost action	0.50	Cutbanks cave	0.10		
16C:							
Edneyville	80	Somewhat limited		Somewhat limited		Somewhat limited	
		Frost action	0.50	Slope	0.37	Slope	0.37
		Slope	0.37	Cutbanks cave	0.10		
16D:							
Edneyville	80	Very limited		Very limited		Very limited	
		Slope	1.00	Slope	1.00	Slope	1.00
		Frost action	0.50	Cutbanks cave	0.10		
16E:							
Edneyville	80	Very limited		Very limited		Very limited	
		Slope	1.00	Slope	1.00	Slope	1.00
		Frost action	0.50	Cutbanks cave	0.10		
17C:							
Evard	75	Somewhat limited		Somewhat limited		Somewhat limited	
		Frost action	0.50	Slope	0.37	Slope	0.37
		Slope	0.37	Cutbanks cave	0.10		
		Shrink-swell	0.06				
17D:							
Evard	75	Very limited		Very limited		Very limited	
		Slope	1.00	Slope	1.00	Slope	1.00
		Frost action	0.50	Cutbanks cave	0.10		
		Shrink-swell	0.06				
17E:							
Evard	75	Very limited		Very limited		Very limited	
		Slope	1.00	Slope	1.00	Slope	1.00
		Frost action	0.50	Cutbanks cave	0.10		
		Shrink-swell	0.06				
18B:							
Frederick	80	Very limited		Somewhat limited		Not limited	
		Low strength	1.00	Too clayey	0.88		
		Shrink-swell	1.00	Cutbanks cave	0.10		
		Frost action	0.50				
18C:							

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Map Symbol and Soil Name	Pct of Map Unit	Local Roads and Streets		Shallow Excavations		Lawns and Landscaping	
		Rating Class and Limiting Features	Value	Rating Class and Limiting Features	Value	Rating Class and Limiting Features	Value
18C:							
Frederick	80	Very limited		Somewhat limited		Somewhat limited	
		Low strength	1.00	Too clayey	0.88	Slope	0.37
		Shrink-swell	1.00	Slope	0.37		
		Frost action	0.50	Cutbanks cave	0.10		
18D:							
Frederick	80	Very limited		Very limited		Very limited	
		Slope	1.00	Slope	1.00	Slope	1.00
		Low strength	1.00	Too clayey	0.88		
		Shrink-swell	1.00	Cutbanks cave	0.10		
19C:							
Frederick	80	Very limited		Somewhat limited		Somewhat limited	
		Low strength	1.00	Too clayey	0.88	Gravel content	0.95
		Shrink-swell	1.00	Slope	0.37	Slope	0.37
		Frost action	0.50	Cutbanks cave	0.10	Content of large stones	0.03
19D:							
Frederick	80	Very limited		Very limited		Very limited	
		Slope	1.00	Slope	1.00	Slope	1.00
		Low strength	1.00	Too clayey	0.88	Gravel content	0.95
		Shrink-swell	1.00	Cutbanks cave	0.10	Content of large stones	0.03
19E:							
Frederick	80	Very limited		Very limited		Very limited	
		Slope	1.00	Slope	1.00	Slope	1.00
		Low strength	1.00	Too clayey	0.88	Gravel content	0.95
		Shrink-swell	1.00	Cutbanks cave	0.10	Content of large stones	0.03
20C:							
Frederick	80	Very limited		Somewhat limited		Somewhat limited	
		Low strength	1.00	Too clayey	0.88	Slope	0.04
		Shrink-swell	1.00	Cutbanks cave	0.10		
		Frost action	0.50	Slope	0.04		
20E:							
Frederick	80	Very limited		Very limited		Very limited	
		Slope	1.00	Slope	1.00	Slope	1.00
		Low strength	1.00	Too clayey	0.88		
		Shrink-swell	1.00	Cutbanks cave	0.10		
21C:							
Frederick	45	Very limited		Somewhat limited		Somewhat limited	
		Low strength	1.00	Too clayey	0.88	Slope	0.04
		Shrink-swell	1.00	Cutbanks cave	0.10		
		Frost action	0.50	Slope	0.04		

Table ENG-4. - Building Site Development - Continued

Roanoke County and the Cities of Roanoke and Salem, Virginia

Map Symbol and Soil Name	Pct of Map Unit	Local Roads and Streets		Shallow Excavations		Lawns and Landscaping	
		Rating Class and Limiting Features	Value	Rating Class and Limiting Features	Value	Rating Class and Limiting Features	Value
21C: Urban land	35	Not Rated		Not Rated		Not Rated	
21D: Frederick	45	Very limited		Very limited		Very limited	
		Slope	1.00	Slope	1.00	Slope	1.00
		Low strength	1.00	Too clayey	0.88		
		Shrink-swell	1.00	Cutbanks cave	0.10		
Urban land	35	Not Rated		Not Rated		Not Rated	
22C: Gilpin	75	Very limited		Somewhat limited		Somewhat limited	
		Low strength	1.00	Depth to soft bedrock	0.46	Depth to bedrock	0.46
		Frost action	0.50	Slope	0.37	Slope	0.37
		Slope	0.37	Cutbanks cave	0.10		
22D: Gilpin	75	Very limited		Very limited		Very limited	
		Slope	1.00	Slope	1.00	Slope	1.00
		Low strength	1.00	Depth to soft bedrock	0.46	Depth to bedrock	0.46
		Frost action	0.50	Cutbanks cave	0.10		
23C: Grimsley	75	Somewhat limited		Somewhat limited		Very limited	
		Content of large stones	0.70	Content of large stones	0.70	Content of large stones	1.00
		Slope	0.37	Slope	0.37	Slope	0.37
		Shrink-swell	<0.01	Cutbanks cave	0.10	Droughty	0.21
24C: Groseclose	80	Very limited		Somewhat limited		Somewhat limited	
		Low strength	1.00	Slope	0.37	Slope	0.37
		Shrink-swell	0.94	Too clayey	0.28		
		Frost action	0.50	Cutbanks cave	0.10		
24D: Groseclose	80	Very limited		Very limited		Very limited	
		Slope	1.00	Slope	1.00	Slope	1.00
		Low strength	1.00	Too clayey	0.28		
		Shrink-swell	0.94	Cutbanks cave	0.10		
24E: Groseclose	75	Very limited		Very limited		Very limited	
		Slope	1.00	Slope	1.00	Slope	1.00
		Low strength	1.00	Too clayey	0.28		
		Shrink-swell	0.94	Cutbanks cave	0.10		
25C:							

Table ENG-4. - Building Site Development - Continued

Roanoke County and the Cities of Roanoke and Salem, Virginia

Map Symbol and Soil Name	Pct of Map Unit	Local Roads and Streets		Shallow Excavations		Lawns and Landscaping	
		Rating Class and Limiting Features	Value	Rating Class and Limiting Features	Value	Rating Class and Limiting Features	Value
25C:							
Groseclose	45	Very limited		Somewhat limited		Somewhat limited	
		Low strength	1.00	Too clayey	0.28	Slope	0.04
		Shrink-swell	0.94	Cutbanks cave	0.10		
		Frost action	0.50	Slope	0.04		
Litz	30	Somewhat limited		Somewhat limited		Somewhat limited	
		Frost action	0.50	Depth to soft bedrock	0.46	Content of large stones	0.54
		Slope	0.04	Cutbanks cave	0.10	Depth to bedrock	0.46
		Shrink-swell	<0.01	Slope	0.04	Droughty	0.24
25D:							
Groseclose	45	Very limited		Very limited		Very limited	
		Slope	1.00	Slope	1.00	Slope	1.00
		Low strength	1.00	Too clayey	0.28		
		Shrink-swell	0.94	Cutbanks cave	0.10		
Litz	30	Very limited		Very limited		Very limited	
		Slope	1.00	Slope	1.00	Slope	1.00
		Frost action	0.50	Depth to soft bedrock	0.46	Content of large stones	0.54
		Shrink-swell	<0.01	Cutbanks cave	0.10	Depth to bedrock	0.46
25E:							
Groseclose	45	Very limited		Very limited		Very limited	
		Slope	1.00	Slope	1.00	Slope	1.00
		Low strength	1.00	Too clayey	0.28		
		Shrink-swell	0.94	Cutbanks cave	0.10		
Litz	30	Very limited		Very limited		Very limited	
		Slope	1.00	Slope	1.00	Slope	1.00
		Frost action	0.50	Depth to soft bedrock	0.46	Content of large stones	0.54
		Shrink-swell	<0.01	Cutbanks cave	0.10	Depth to bedrock	0.46
26B:							
Hayesville	80	Somewhat limited		Somewhat limited		Not limited	
		Shrink-swell	0.50	Cutbanks cave	0.10		
		Frost action	0.50				
26C:							
Hayesville	75	Somewhat limited		Somewhat limited		Somewhat limited	
		Shrink-swell	0.50	Slope	0.37	Slope	0.37
		Frost action	0.50	Cutbanks cave	0.10		
		Slope	0.37				

26D:

Table ENG-4. - Building Site Development - Continued

Roanoke County and the Cities of Roanoke and Salem, Virginia

Map Symbol and Soil Name	Pct of Map Unit	Local Roads and Streets		Shallow Excavations		Lawns and Landscaping	
		Rating Class and Limiting Features	Value	Rating Class and Limiting Features	Value	Rating Class and Limiting Features	Value
26D:							
Hayesville	75	Very limited		Very limited		Very limited	
		Slope	1.00	Slope	1.00	Slope	1.00
		Shrink-swell	0.50	Cutbanks cave	0.10		
		Frost action	0.50				
27C:							
Hayesville	80	Somewhat limited		Somewhat limited		Somewhat limited	
		Shrink-swell	0.50	Slope	0.37	Slope	0.37
		Frost action	0.50	Cutbanks cave	0.10		
		Slope	0.37				
27D:							
Hayesville	75	Very limited		Very limited		Very limited	
		Slope	1.00	Slope	1.00	Slope	1.00
		Shrink-swell	0.50	Cutbanks cave	0.10		
		Frost action	0.50				
28E:							
Hayesville	75	Very limited		Very limited		Very limited	
		Slope	1.00	Slope	1.00	Slope	1.00
		Shrink-swell	0.50	Cutbanks cave	0.10		
		Frost action	0.50				
29C:							
Hayesville	45	Somewhat limited		Somewhat limited		Somewhat limited	
		Shrink-swell	0.50	Slope	0.16	Slope	0.16
		Frost action	0.50	Cutbanks cave	0.10		
		Slope	0.16				
Urban land	30	Not Rated		Not Rated		Not Rated	
29D:							
Hayesville	45	Very limited		Very limited		Very limited	
		Slope	1.00	Slope	1.00	Slope	1.00
		Shrink-swell	0.50	Cutbanks cave	0.10		
		Frost action	0.50				
Urban land	30	Not Rated		Not Rated		Not Rated	
30C:							
Laidig	75	Somewhat limited		Very limited		Somewhat limited	
		Frost action	0.50	Depth to thick cemented pan	1.00	Slope	0.37
		Slope	0.37	Depth to saturated zone	0.90	Depth to cemented pan	0.29
		Depth to thick cemented pan	0.29	Slope	0.37	Droughty	0.26
30D:							

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		Rating Class and Limiting Features	Value	Rating Class and Limiting Features	Value	Rating Class and Limiting Features	Value
30D:							
Laidig	75	Very limited		Very limited		Very limited	
		Slope	1.00	Depth to thick cemented pan	1.00	Slope	1.00
		Frost action	0.50	Slope	1.00	Depth to cemented pan	0.29
		Depth to thick cemented pan	0.29	Depth to saturated zone	0.90	Droughty	0.26
31D:							
Laidig	75	Very limited		Very limited		Very limited	
		Slope	1.00	Depth to thick cemented pan	1.00	Slope	1.00
		Frost action	0.50	Slope	1.00	Depth to cemented pan	0.29
		Depth to thick cemented pan	0.29	Depth to saturated zone	0.90	Droughty	0.26
32B:							
Macove	75	Somewhat limited		Very limited		Somewhat limited	
		Frost action	0.50	Cutbanks cave	1.00	Content of large stones	0.03
32C:							
Macove	75	Somewhat limited		Very limited		Somewhat limited	
		Frost action	0.50	Cutbanks cave	1.00	Slope	0.37
		Slope	0.37	Slope	0.37	Content of large stones	0.03
33E:							
Opequon	55	Very limited		Very limited		Very limited	
		Depth to hard bedrock	1.00	Depth to hard bedrock	1.00	Depth to bedrock	1.00
		Slope	1.00	Slope	1.00	Slope	1.00
		Low strength	1.00	Cutbanks cave	0.10	Droughty	0.81
Rock outcrop	30	Not Rated		Not Rated		Not Rated	
34E:							
Peaks	75	Very limited		Very limited		Very limited	
		Slope	1.00	Depth to hard bedrock	1.00	Slope	1.00
		Depth to hard bedrock	0.46	Slope	1.00	Droughty	0.88
				Cutbanks cave	1.00	Depth to bedrock	0.46
34F:							
Peaks	75	Very limited		Very limited		Very limited	
		Slope	1.00	Depth to hard bedrock	1.00	Slope	1.00
		Depth to hard bedrock	0.46	Slope	1.00	Droughty	0.88
				Cutbanks cave	1.00	Depth to bedrock	0.46
35:							
Pits	85	Not Rated		Not Rated		Not Rated	
36A:							

Table ENG-4. - Building Site Development - Continued

Roanoke County and the Cities of Roanoke and Salem, Virginia

Map Symbol and Soil Name	Pct of Map Unit	Local Roads and Streets		Shallow Excavations		Lawns and Landscaping	
		Rating Class and Limiting Features	Value	Rating Class and Limiting Features	Value	Rating Class and Limiting Features	Value
36A:							
Purdy	85	Very limited		Very limited		Very limited	
		Depth to saturated zone	1.00	Depth to saturated zone	1.00	Depth to saturated zone	1.00
		Frost action	1.00	Cutbanks cave	0.10		
		Low strength	1.00	Too clayey	0.03		
37B:							
Sequoia	75	Very limited		Somewhat limited		Somewhat limited	
		Low strength	1.00	Depth to soft bedrock	0.46	Depth to bedrock	0.46
		Shrink-swell	0.94	Too clayey	0.28	Droughty	0.10
				Cutbanks cave	0.10		
37C:							
Sequoia	75	Very limited		Somewhat limited		Somewhat limited	
		Low strength	1.00	Depth to soft bedrock	0.46	Depth to bedrock	0.46
		Shrink-swell	0.94	Slope	0.37	Slope	0.37
		Slope	0.37	Too clayey	0.28	Droughty	0.10
37D:							
Sequoia	75	Very limited		Very limited		Very limited	
		Slope	1.00	Slope	1.00	Slope	1.00
		Low strength	1.00	Depth to soft bedrock	0.46	Depth to bedrock	0.46
		Shrink-swell	0.94	Too clayey	0.28	Droughty	0.10
37E:							
Sequoia	75	Very limited		Very limited		Very limited	
		Slope	1.00	Slope	1.00	Slope	1.00
		Low strength	1.00	Depth to soft bedrock	0.46	Depth to bedrock	0.46
		Shrink-swell	0.94	Too clayey	0.28	Droughty	0.10
38B:							
Shelocta	80	Very limited		Somewhat limited		Not limited	
		Low strength	1.00	Depth to hard bedrock	1.00		
		Shrink-swell	0.06	Cutbanks cave	0.10		
38C:							
Shelocta	80	Very limited		Somewhat limited		Somewhat limited	
		Low strength	1.00	Depth to hard bedrock	1.00	Slope	0.37
		Slope	0.37	Slope	0.37		
		Shrink-swell	0.06	Cutbanks cave	0.10		
38D:							
Shelocta	80	Very limited		Very limited		Very limited	
		Slope	1.00	Slope	1.00	Slope	1.00
		Low strength	1.00	Depth to hard bedrock	1.00		
		Shrink-swell	0.06	Cutbanks cave	0.10		
39B:							

Table ENG-4. - Building Site Development - Continued

Roanoke County and the Cities of Roanoke and Salem, Virginia

Map Symbol and Soil Name	Pct of Map Unit	Local Roads and Streets		Shallow Excavations		Lawns and Landscaping	
		Rating Class and Limiting Features	Value	Rating Class and Limiting Features	Value	Rating Class and Limiting Features	Value
39B:							
Shottower	80	Somewhat limited		Somewhat limited		Not limited	
		Shrink-swell	0.50	Too clayey	0.88		
		Frost action	0.50	Cutbanks cave	0.10		
39C:							
Shottower	80	Somewhat limited		Somewhat limited		Somewhat limited	
		Shrink-swell	0.50	Too clayey	0.88	Slope	0.37
		Frost action	0.50	Slope	0.37		
		Slope	0.37	Cutbanks cave	0.10		
40C:							
Shottower	80	Somewhat limited		Somewhat limited		Somewhat limited	
		Shrink-swell	0.50	Too clayey	0.88	Content of large stones	0.92
		Frost action	0.50	Slope	0.37		
		Slope	0.37	Cutbanks cave	0.10	Slope	0.37
40D:							
Shottower	80	Very limited		Very limited		Very limited	
		Slope	1.00	Slope	1.00	Slope	1.00
		Shrink-swell	0.50	Too clayey	0.88	Content of large stones	0.92
		Frost action	0.50	Cutbanks cave	0.10		
41C:							
Shottower	40	Somewhat limited		Somewhat limited		Somewhat limited	
		Slope	0.84	Too clayey	0.88	Slope	0.84
		Shrink-swell	0.50	Slope	0.84		
		Frost action	0.50	Cutbanks cave	0.10		
Urban land	35	Not Rated		Not Rated		Not Rated	
41D:							
Shottower	40	Very limited		Very limited		Very limited	
		Slope	1.00	Slope	1.00	Slope	1.00
		Shrink-swell	0.50	Too clayey	0.88		
		Frost action	0.50	Cutbanks cave	0.10		
Urban land	35	Not Rated		Not Rated		Not Rated	
42A:							
Sindion	75	Very limited		Very limited		Somewhat limited	
		Frost action	1.00	Depth to saturated zone	1.00	Flooding	0.60
		Flooding	1.00			Depth to saturated zone	0.03
		Depth to saturated zone	0.03	Flooding	0.60		
				Cutbanks cave	0.10		
Clubcaf	5	Not Rated		Not Rated		Not Rated	
43A:							

Table ENG-4. - Building Site Development - Continued

Roanoke County and the Cities of Roanoke and Salem, Virginia

Map Symbol and Soil Name	Pct of Map Unit	Local Roads and Streets		Shallow Excavations		Lawns and Landscaping	
		Rating Class and Limiting Features	Value	Rating Class and Limiting Features	Value	Rating Class and Limiting Features	Value
43A:							
Speedwell	75	Very limited		Somewhat limited		Somewhat limited	
		Flooding	1.00	Flooding	0.60	Flooding	0.60
		Frost action	0.50	Cutbanks cave	0.10		
		Shrink-swell	<0.01				
Clubcaf	5	Not Rated		Not Rated		Not Rated	
44A:							
Speedwell	40	Very limited		Somewhat limited		Somewhat limited	
		Flooding	1.00	Flooding	0.60	Flooding	0.60
		Frost action	0.50	Cutbanks cave	0.10		
		Shrink-swell	<0.01				
Urban land	35	Not Rated		Not Rated		Not Rated	
Clubcaf	5	Not Rated		Not Rated		Not Rated	
45C:							
Spessard	75	Somewhat limited		Very limited		Somewhat limited	
		Slope	0.37	Cutbanks cave	1.00	Droughty	0.69
				Slope	0.37	Slope	0.37
45D:							
Spessard	75	Very limited		Very limited		Very limited	
		Slope	1.00	Slope	1.00	Slope	1.00
				Cutbanks cave	1.00	Droughty	0.69
45E:							
Spessard	75	Very limited		Very limited		Very limited	
		Slope	1.00	Slope	1.00	Slope	1.00
				Cutbanks cave	1.00	Droughty	0.69
46E:							
Sylvatus	75	Very limited		Very limited		Very limited	
		Depth to hard bedrock	1.00	Depth to hard bedrock	1.00	Depth to bedrock	1.00
		Slope	1.00	Slope	1.00	Slope	1.00
		Frost action	0.50	Cutbanks cave	0.10	Droughty	1.00
46F:							
Sylvatus	75	Very limited		Very limited		Very limited	
		Depth to hard bedrock	1.00	Depth to hard bedrock	1.00	Depth to bedrock	1.00
		Slope	1.00	Slope	1.00	Slope	1.00
		Frost action	0.50	Cutbanks cave	0.10	Droughty	1.00
47B:							
Thurmont	80	Very limited		Very limited		Not limited	
		Low strength	1.00	Cutbanks cave	1.00		
		Frost action	0.50	Depth to saturated zone	0.15		
		Shrink-swell	0.06				

Table ENG-4. - Building Site Development - Continued

Roanoke County and the Cities of Roanoke and Salem, Virginia

Map Symbol and Soil Name	Pct of Map Unit	Local Roads and Streets		Shallow Excavations		Lawns and Landscaping	
		Rating Class and Limiting Features	Value	Rating Class and Limiting Features	Value	Rating Class and Limiting Features	Value
47C:							
Thurmont	80	Very limited		Very limited		Somewhat limited	
		Low strength	1.00	Cutbanks cave	1.00	Slope	0.37
		Frost action	0.50	Slope	0.37		
		Slope	0.37	Depth to saturated zone	0.15		
48B:							
Timberville	80	Very limited		Very limited		Not limited	
		Low strength	1.00	Cutbanks cave	1.00		
		Frost action	0.50	Too clayey	0.32		
		Shrink-swell	0.06				
49B:							
Tumbling	80	Somewhat limited		Very limited		Not limited	
		Shrink-swell	0.78	Cutbanks cave	1.00		
		Frost action	0.50	Too clayey	0.13		
		Low strength	<0.01				
49C:							
Tumbling	80	Somewhat limited		Very limited		Somewhat limited	
		Shrink-swell	0.78	Cutbanks cave	1.00	Slope	0.37
		Frost action	0.50	Slope	0.37		
		Slope	0.37	Too clayey	0.13		
49D:							
Tumbling	80	Very limited		Very limited		Very limited	
		Slope	1.00	Slope	1.00	Slope	1.00
		Shrink-swell	0.78	Cutbanks cave	1.00		
		Frost action	0.50	Too clayey	0.13		
50C:							
Tumbling	80	Somewhat limited		Very limited		Somewhat limited	
		Shrink-swell	0.78	Cutbanks cave	1.00	Slope	0.37
		Frost action	0.50	Slope	0.37		
		Slope	0.37	Too clayey	0.13		
50D:							
Tumbling	80	Very limited		Very limited		Very limited	
		Slope	1.00	Slope	1.00	Slope	1.00
		Shrink-swell	0.78	Cutbanks cave	1.00		
		Frost action	0.50	Too clayey	0.13		
50E:							
Tumbling	80	Very limited		Very limited		Very limited	
		Slope	1.00	Slope	1.00	Slope	1.00
		Shrink-swell	0.78	Cutbanks cave	1.00		
		Frost action	0.50	Too clayey	0.13		
51C:							

Table ENG-4. - Building Site Development - Continued

Roanoke County and the Cities of Roanoke and Salem, Virginia

Map Symbol and Soil Name	Pct of Map Unit	Local Roads and Streets		Shallow Excavations		Lawns and Landscaping	
		Rating Class and Limiting Features	Value	Rating Class and Limiting Features	Value	Rating Class and Limiting Features	Value
51C:							
Tumbling	40	Somewhat limited		Very limited		Somewhat limited	
		Shrink-swell	0.78	Cutbanks cave	1.00	Slope	0.04
		Frost action	0.50	Too clayey	0.13		
		Slope	0.04	Slope	0.04		
Urban land	35	Not Rated		Not Rated		Not Rated	
52:							
Udorthents	60	Not Rated		Not Rated		Not Rated	
Urban land	25	Not Rated		Not Rated		Not Rated	
53:							
Urban land	80	Not Rated		Not Rated		Not Rated	
Wet Spots	3	Not Rated		Not Rated		Not Rated	
54C:							
Weikert	45	Very limited		Very limited		Very limited	
		Depth to hard bedrock	1.00	Depth to hard bedrock	1.00	Depth to bedrock	1.00
		Frost action	0.50	Slope	0.37	Droughty	1.00
		Slope	0.37	Cutbanks cave	0.10	Slope	0.37
Berks	30	Somewhat limited		Somewhat limited		Very limited	
		Slope	0.37	Depth to soft bedrock	0.46	Droughty	1.00
				Slope	0.37	Depth to bedrock	0.46
				Cutbanks cave	0.10	Slope	0.37
54E:							
Weikert	45	Very limited		Very limited		Very limited	
		Depth to hard bedrock	1.00	Depth to hard bedrock	1.00	Depth to bedrock	1.00
		Slope	1.00	Slope	1.00	Slope	1.00
		Frost action	0.50	Cutbanks cave	0.10	Droughty	1.00
Berks	30	Very limited		Very limited		Very limited	
		Slope	1.00	Slope	1.00	Slope	1.00
				Depth to soft bedrock	0.46	Droughty	1.00
				Cutbanks cave	0.10	Depth to bedrock	0.46
55F:							
Weikert	65	Very limited		Very limited		Very limited	
		Depth to hard bedrock	1.00	Depth to hard bedrock	1.00	Depth to bedrock	1.00
		Slope	1.00	Slope	1.00	Slope	1.00
		Frost action	0.50	Cutbanks cave	0.10	Droughty	1.00
Rock outcrop	25	Not Rated		Not Rated		Not Rated	

56A:

Table ENG-4. - Building Site Development - Continued

Roanoke County and the Cities of Roanoke and Salem, Virginia

Map Symbol and Soil Name	Pct of Map Unit	Local Roads and Streets		Shallow Excavations		Lawns and Landscaping	
		Rating Class and Limiting Features	Value	Rating Class and Limiting Features	Value	Rating Class and Limiting Features	Value
56A:							
Wheeling	80	Somewhat limited		Somewhat limited		Not limited	
		Frost action	0.50	Cutbanks cave	0.10		
		Flooding	0.40				
		Shrink-swell	<0.01				
56B:							
Wheeling	80	Somewhat limited		Somewhat limited		Not limited	
		Frost action	0.50	Cutbanks cave	0.10		
		Flooding	0.40				
		Shrink-swell	<0.01				
57A:							
Wheeling	40	Somewhat limited		Somewhat limited		Not limited	
		Frost action	0.50	Cutbanks cave	0.10		
		Flooding	0.40				
		Shrink-swell	<0.01				
Urban land	25	Not Rated		Not Rated		Not Rated	
58B:							
Zoar	75	Somewhat limited		Very limited		Somewhat limited	
		Shrink-swell	0.78	Depth to saturated zone	1.00	Depth to saturated zone	0.19
		Frost action	0.50	Cutbanks cave	0.10		
		Depth to saturated zone	0.19	Too clayey	0.08		
Purdy	5	Not Rated		Not Rated		Not Rated	
W:							
Water	100	Not Rated		Not Rated		Not Rated	