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ENGINEERING INDEX PROPERTIES
Chariton County, Missouri: Detailed Soil Map Legend

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage Passing sieve number--				Liquid limit	Plas-ticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
	In				Pct	Pct					Pct	
10B2:												
Lagonda---------	0-5	SIL	CL, CL-ML	A-4, A-6	0	0	100	100	95-100	90-100	20-40	5-15
	5-26	SICL, SIC	CH, CL	A-7	0	0	100	100	95-100	95-100	40-70	25-40
	26-60	SICL, CL, SIC	CH, CL	A-7	0	0	95-100	90-100	80-95	75-90	45-60	25-40
11C2:												
Lagonda---------	0-9	SICL	CL	A-7	0	0	100	100	95-100	90-100	40-50	15-25
	9-60	SICL, SIC, CL	CH, CL	A-7	0	0	100	100	95-100	95-100	40-70	25-40
12B2:												
Bevier----------	0-8	SICL	CL	A-7	0	0	100	100	95-100	85-95	42-48	22-27
	8-24	SIC, SICL	CH	A-7	0	0	100	100	95-100	85-95	55-65	30-40
	24-60	SICL	CH, CL	A-7	0	0	100	100	95-100	85-95	43-56	20-33
15B:												
Grundy----------	0-8	SIL	CL	A-7, A-6	0	0	100	100	95-100	90-100	30-45	10-20
	8-15	SICL, SIC	CH, CL	A-7	0	0	100	100	95-100	90-100	45-55	25-35
	15-48	SIC	CH	A-7	0	0	100	100	95-100	90-100	50-70	30-45
	48-60	SICL	CH, CL	A-7	0	0	100	100	90-100	90-100	40-55	25-35
16:												
Crestmeade------	0-8	SIL	CL	A-4, A-6	0	0	100	100	90-100	70-90	25-35	7-15
	8-14	SIL, SICL	CL	A-6	0	0	100	100	95-100	70-95	25-40	12-25
	14-34	SIC, C	CH	A-7	0	0	100	100	95-100	70-95	55-75	33-49
	34-53	SICL, SIC	CH, CL	A-7	0	0	100	100	95-100	85-95	42-58	22-35
	53-74	SICL, SIL	CL	A-7, A-6	0	0	90-100	90-100	80-95	70-90	36-50	17-30
19C2:												
Menfro----------	0-4	SIL	CL	A-6	0	0	100	100	95-100	90-100	25-35	11-20
	4-36	SICL	CL	A-6, A-7	0	0	100	100	95-100	95-100	35-45	20-25
	36-60	SIL	CL-ML, CL	A-4, A-6	0	0	100	100	95-100	90-100	25-35	5-15

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Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage Passing sieve number--				Liquid limit	Plas-ticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
	In				Pct	Pct					Pct	
19F:												
Menfro----------	0-7	SIL	CL	A-6	0	0	100	100	95-100	90-100	25-35	11-20
	7-12	SIL, SICL	CL	A-6	0	0	100	100	95-100	90-100	25-40	11-20
	12-60	SICL	CL	A-6, A-7	0	0	100	100	95-100	95-100	35-45	20-25
20A:												
Shannondale-----	0-9	SIL	CL	A-4, A-6	0	0	100	100	100	90-100	25-35	7-15
	9-17	SIL, SICL	CL	A-4, A-6	0	0	100	100	100	90-100	25-40	7-20
	17-58	SICL	CL	A-6, A-7	0	0	100	100	100	90-100	35-44	15-22
	58-75	SIL, L, VFSL	CL	A-4, A-6	0	0	100	100	90-100	60-80	25-35	7-15
20C2:												
Shannondale-----	0-9	SIL	CL	A-4, A-6	0	0	100	100	100	90-100	25-35	7-15
	9-17	SIL, SICL	CL	A-4, A-6	0	0	100	100	100	90-100	25-40	7-20
	17-58	SICL	CL	A-6, A-7	0	0	100	100	100	90-100	35-44	15-22
	58-75	SIL, L, VFSL	CL	A-4, A-6	0	0	100	100	90-100	60-80	25-35	7-15
21C2:												
Knox----------	0-6	SICL	CL	A-6	0	0	100	100	95-100	95-100	30-35	10-15
	6-55	SICL, SIL	CL	A-7	0	0	100	100	95-100	95-100	40-50	20-30
	55-70	SIL	CL	A-6, A-7	0	0	100	100	95-100	90-100	30-45	10-25
22F3:												
Knox----------	0-3	SICL	CL	A-6	0	0	100	100	95-100	95-100	30-35	10-15
	3-50	SICL, SIL	CL	A-7	0	0	100	100	95-100	95-100	40-50	20-30
	50-60	SIL	CL	A-6, A-7	0	0	100	100	95-100	90-100	30-45	10-25
23B2:												
Higginsville----	0-6	SIL	CL	A-6	0	0	100	100	95-100	95-100	30-40	10-15
	6-10	SICL	CL	A-7, A-6	0	0	100	100	95-100	90-100	35-50	15-25
	10-30	SICL	CL	A-7	0	0	100	100	95-100	90-100	40-50	15-25
	30-60	SICL, SIL	ML, CL	A-6, A-7	0	0	100	100	95-100	90-100	35-45	10-20

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	In				Pct	Pct					Pct	
23C2:												
Higginsville----	0-7	SIL	CL	A-6	0	0	100	100	95-100	95-100	30-40	10-15
	7-12	SICL	CL	A-7, A-6	0	0	100	100	95-100	90-100	35-50	15-25
	12-30	SICL	CL	A-7	0	0	100	100	95-100	90-100	40-50	15-25
	30-60	SICL, SIL	CL, ML	A-6, A-7	0	0	100	100	95-100	90-100	35-45	10-20
25B:												
Wakenda---------	0-14	SIL	CL, ML	A-4, A-6	0	0	100	100	100	90-100	30-40	5-15
	14-52	SICL, SIL	CL	A-6, A-7	0	0	100	100	100	90-100	35-45	15-25
	52-60	SIL, SICL	CL	A-6	0	0	100	100	100	90-100	30-40	11-20
25C2:												
Wakenda---------	0-12	SIL	CL, ML	A-6, A-4	0	0	100	100	100	90-100	30-40	5-15
	12-50	SICL, SIL	CL	A-7, A-6	0	0	100	100	100	90-100	35-45	15-25
	50-60	SIL, SICL	CL	A-6	0	0	100	100	100	90-100	30-40	11-20
26B:												
Armstrong-------	0-18	L	CL-ML, CL	A-4, A-6	0	0-5	90-100	80-95	75-90	55-80	20-30	5-15
	18-52	CL, C, SICL	CH, CL, ML, MH	A-7	0	0-5	90-100	80-95	70-90	55-80	45-70	20-35
	52-60	CL	CL	A-6	0	0-5	90-100	80-95	70-90	55-80	30-40	15-20
26C2:												
Armstrong-------	0-7	L	CL, CL-ML	A-4, A-6	0	0-5	90-100	80-95	75-90	55-80	20-30	5-15
	7-33	CL, C, SICL	CH, ML, CL, MH	A-7	0	0-5	90-100	80-95	70-90	55-80	45-70	20-35
	33-60	CL	CL	A-6	0	0-5	90-100	80-95	70-90	55-80	30-40	15-20
26D2:												
Armstrong-------	0-5	L	CL, CL-ML	A-4, A-6	0	0-5	90-100	80-95	75-90	55-80	20-30	5-15
	5-51	CL, C, SICL	ML, CH, CL, MH	A-7	0	0-5	90-100	80-95	70-90	55-80	45-70	20-35
	51-60	CL	CL	A-6	0	0-5	90-100	80-95	70-90	55-80	30-40	15-20

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	In				Pct	Pct					Pct	
27D3:												
Armstrong-------	0-6	CL	CL	A-6, A-7	0	0-5	90-100	80-95	75-90	55-80	35-45	15-25
	6-50	CL, C, SICL	CH, CL, ML, MH	A-7	0	0-5	90-100	80-95	70-90	55-80	45-70	20-35
	50-60	CL	CL	A-6	0	0-5	90-100	80-95	70-90	55-80	30-40	15-20
28C:												
Keswick---------	0-8	L	CL, CL-ML	A-4, A-6	0	0-5	90-100	80-100	75-90	60-80	20-30	5-15
	8-40	CL, C	CL, CH	A-7	0	0-5	90-100	80-100	70-90	55-80	40-70	20-40
	40-60	CL	CL	A-6	0	0-5	90-100	80-100	70-90	55-80	30-40	15-25
31F:												
Winnegan--------	0-7	L	CL-ML, CL	A-4, A-6	0	0	95-100	95-100	80-90	60-80	20-30	5-15
	7-31	CL, C	CL	A-7	0	0	95-100	95-100	85-95	65-85	40-50	20-30
	31-64	CL, C	CL	A-7	0	0	95-100	95-100	85-95	65-85	40-50	20-30
36D2:												
Gosport---------	0-3	SICL	ML, MH	A-7	0	0	100	90-100	90-100	85-100	41-55	11-20
	3-33	C, SIC, SICL	CH	A-7	0	0	100	90-100	90-100	85-100	50-65	35-50
	33-60	WB			---	---	---	---	---	---	---	---
36F:												
Gosport---------	0-5	SICL	MH, ML	A-7	0	0	100	90-100	90-100	85-100	41-55	11-20
	5-36	C, SIC, SICL	CH	A-7	0	0	100	90-100	90-100	85-100	50-65	35-50
	36-60	WB			---	---	---	---	---	---	---	---
37D2:												
Newcomer--------	0-7	L	CL	A-4, A-6	0	0	90-100	85-100	75-95	50-70	25-30	5-10
	7-27	SIL, L, CL	CL	A-4, A-6	0	0	85-100	75-100	70-100	45-80	22-40	9-22
	27-34	L, SCL, SL	CL-ML, CL	A-4, A-6	0	0	85-100	75-100	75-100	40-80	20-40	6-21
	34-50	WB			---	---	---	---	---	---	---	---
	50-60	UWB			---	---	---	---	---	---	---	---

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Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage Passing sieve number--				Liquid limit	Plas-ticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
	In				Pct	Pct					Pct	
37F:												
Newcomer--------	0-9	L	CL	A-4, A-6	0	0	90-100	85-100	75-95	50-70	25-30	5-10
	9-29	SIL, L, CL	CL	A-4, A-6	0	0	85-100	75-100	70-100	45-80	22-40	9-22
	29-35	L, SCL, SL	CL, CL-ML	A-4, A-6	0	0	85-100	75-100	75-100	40-80	20-40	6-21
	35-51	WB			---	---	---	---	---	---	---	---
	51-61	UWB			---	---	---	---	---	---	---	---
40F:												
Putco----------	0-12	CL	SC, CL, GC	A-6, A-7	0-10	0-15	40-80	35-80	35-80	35-75	35-50	15-25
	12-60	SIC	CH, CL, GC	A-2-7, A-7	0-10	0-5	30-80	25-80	25-80	25-75	45-65	25-40
42F:												
Schuline--------	0-10	SICL	CL	A-6, A-7	0-1	0-2	90-100	85-100	80-95	75-90	30-50	10-25
	10-16	L, SICL, CL	CL	A-6, A-7	0-2	0-5	90-100	85-100	80-95	70-85	30-50	10-25
	16-60	L, SICL, CL	CL	A-4, A-7, A-6	0-5	0-15	85-95	85-90	75-85	60-80	25-50	7-25
Pits----------	0-60	UWB			---	---	---	---	---	---	0-14	---
47:												
Dockery---------	0-5	SIL	CL-ML, CL	A-6, A-4	0	0	100	100	90-100	85-100	25-35	5-15
	5-60	SIL, SICL	CL	A-6, A-4	0	0	100	100	90-100	85-95	25-40	8-20
50:												
Blackoar--------	0-11	SIL	CL-ML, CL	A-6, A-4	0	0	100	100	95-100	85-100	25-40	5-18
	11-48	SIL	CL, CL-ML	A-6, A-4	0	0	100	100	95-100	85-100	25-40	5-18
	48-65	SIL, SICL	CL, CL-ML	A-6, A-4	0	0	100	100	95-100	85-100	25-40	5-20
53:												
Colo----------	0-16	SIL	CL-ML, CL	A-6, A-4	0	0	100	100	95-100	95-100	25-40	5-15
	16-60	SICL	CH, CL	A-7	0	0	100	100	90-100	90-100	40-55	20-30

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			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
	In				Pct	Pct					Pct	
54:												
Zook----------	0-8	SICL	CH, CL	A-7	0	0	100	100	95-100	95-100	45-65	20-35
	8-40	SIC, SICL	CH	A-7	0	0	100	100	95-100	95-100	60-85	35-55
	40-75	SICL, SIC, SIL	ML, MH, CH, CL	A-6, A-7	0	0	100	100	95-100	95-100	35-80	10-50
56:												
Triplett--------	0-7	SIL	CL	A-4, A-6	0	0	100	100	90-100	70-90	24-35	8-20
	7-14	SIL, SICL	CL	A-6	0	0	100	100	90-100	70-95	25-40	12-25
	14-33	SIC, C	CH	A-7	0	0	100	100	95-100	75-95	55-70	33-45
	33-53	SICL, SIC	CL, CH	A-7	0	0	100	100	95-100	75-95	45-55	25-35
	53-60	SICL, SIL	CL	A-7, A-6	0	0	100	100	90-100	70-95	30-43	11-20
60:												
Portage---------	0-9	SIC	CH	A-7	0	0	100	100	95-100	90-100	55-80	30-50
	9-44	C	CH	A-7	0	0	100	100	100	95-100	65-85	35-55
	44-60	C	CH	A-7	0	0	100	100	100	95-100	65-85	35-55
61:												
Carlow----------	0-13	SIC	CH, CL	A-7	0	0	100	100	95-100	95-100	40-65	25-40
	13-60	SIC, C	CH, CL	A-7	0	0	100	100	95-100	95-100	45-75	30-50
62:												
Carlow----------	0-13	SIC	CL, CH	A-7	0	0	100	100	95-100	95-100	40-65	25-40
	13-60	SIC, C	CH, CL	A-7	0	0	100	100	95-100	95-100	45-75	30-50
64:												
Tina----------	0-12	SIL	CL	A-6	0	0	100	100	95-100	85-100	34-40	15-20
	12-41	SICL, SIC	CH	A-7	0	0	100	100	95-100	85-100	51-64	29-39
	41-60	VFSL, CL, L	CL-ML, CL, ML	A-4, A-6	0	0	100	100	95-100	50-80	16-34	3-13

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			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
	In				Pct	Pct					Pct	
66C2:												
Gifford---------	0-3	SICL	CL	A-6	0	0	100	100	90-100	85-95	30-40	10-20
	3-30	SIC, SICL	CH	A-7	0	0	100	100	95-100	95-100	50-65	30-40
	30-60	SICL, CL	CL	A-6, A-7	0	0	100	100	85-100	75-90	35-45	20-25
68:												
Tuskeego--------	0-8	SICL	CL	A-6	0	0	100	100	95-100	95-100	35-40	15-20
	8-24	SIL, SICL	CL	A-6	0	0	100	100	95-100	95-100	30-35	11-15
	24-46	SICL, SIC	CH	A-7	0	0	100	100	95-100	95-100	50-60	25-35
	46-60	SICL	CH, CL	A-7	0	0	100	100	95-100	95-100	45-55	25-35
70:												
Speed----------	0-15	SIL	CL, CL-ML	A-4, A-6	0	0	100	100	95-100	90-100	23-32	6-13
	15-27	SIL	CL, CL-ML	A-4	0	0	100	100	95-100	90-100	23-30	6-10
	27-38	SIL, SICL	CL	A-6, A-4	0	0	100	100	95-100	90-100	28-40	9-18
	38-60	SIL, SICL	CL	A-6	0	0	100	100	95-100	90-100	30-40	11-20
72:												
Tice----------	0-11	SIL	CL	A-7, A-6	0	0	100	100	90-100	80-95	30-45	10-20
	11-60	SICL, SIL	CH, CL	A-7	0	0	100	100	95-100	85-95	40-55	15-30
73:												
Tice----------	0-11	SICL	CL	A-7, A-6	0	0	100	100	90-100	80-95	30-45	10-20
	11-60	SICL, SIL	CH, CL	A-7	0	0	100	100	95-100	85-95	40-55	15-30
78:												
Levasy----------	0-20	SIC	CH, CL	A-7	0	0	100	100	95-100	85-95	40-60	20-40
	20-29	SIC, SICL, C	CH, CL	A-7	0	0	100	100	95-100	75-95	40-60	20-40
	29-60	VFSL, SIL, FSL	CL, CL-ML, SC	A-4, A-6	0	0	100	100	70-95	40-75	20-40	4-15
81:												
Haynie----------	0-9	VFSL	ML, CL-ML	A-4	0	0	100	100	85-100	70-100	0-25	NP-5
	9-60	SIL, VFSL	CL, CL-ML	A-6, A-4	0	0	100	100	85-100	85-100	25-35	5-15

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	In				Pct	Pct					Pct	
82:												
Sarpy----------	0-7	LFS	SM	A-2-4	0	0	100	100	60-80	15-35	---	NP
	7-60	FS, LFS, S	SP-SM, SM, SP	A-2-4, A-3	0	0	100	100	60-80	2-35	---	NP
83:												
Landes----------	0-12	FSL	SM, SC-SM, SC	A-2-4, A-4	0	0	100	70-100	70-95	20-50	0-25	NP-10
	12-34	L, VFSL, LFS	SM, SC, SC-SM, CL-ML	A-2-4, A-4	0	0	100	85-100	70-100	15-60	0-25	NP-10
	34-60	SR S SIL	SC, SP-SM, SM, SC-SM	A-2-4, A-4	0	0	100	85-100	70-85	10-50	0-30	NP-10
84:												
Haynie----------	0-9	VFSL	ML, CL-ML	A-4	0	0	100	100	85-100	70-100	0-25	NP-5
	9-60	SIL, VFSL	CL, CL-ML	A-6, A-4	0	0	100	100	85-100	85-100	25-35	5-15
Waldron---------	0-6	SIC	CH, CL	A-7	0	0	100	100	95-100	90-100	45-65	30-45
	6-52	SR SICL SIC	CH, CL	A-7	0	0	100	100	95-100	90-100	40-65	20-45
	52-60	SR VFSL SIL	CL, CL-ML	A-6, A-4	0	0	100	100	85-95	50-65	25-35	5-15
85:												
Waldron---------	0-4	SIC	CL, CH	A-7	0	0	100	100	95-100	90-100	45-65	30-45
	4-48	SR SICL SIC	CH, CL	A-7	0	0	100	100	95-100	90-100	40-65	20-45
	48-60	SR VFSL SIL	CL, CL-ML	A-6, A-4	0	0	100	100	85-95	50-65	25-35	5-15
86:												
Parkville-------	0-4	SICL	CL	A-7, A-6	0	0	100	100	95-100	90-100	35-50	15-25
	4-20	C, SIC	CH	A-7	0	0	100	100	95-100	95-100	55-80	30-55
	20-60	SR VFS SIL	CL-ML, CL, ML	A-4, A-6	0	0	100	100	85-100	60-90	20-35	NP-15
87:												
Modale----------	0-22	SIL	CL, CL-ML	A-4, A-6	0	0	100	100	95-100	80-90	25-40	5-15
	22-60	SIC, C	CH	A-7	0	0	100	100	95-100	95-100	65-85	40-60

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Chariton County, Missouri: Detailed Soil Map Legend

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage Passing sieve number--				Liquid limit	Plas-ticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
	In				Pct	Pct					Pct	
88:												
Cotter----------	0-16	SIL	CL	A-6	0	0	100	100	90-100	80-95	30-40	13-20
	16-46	SICL, SIL	CL	A-6	0	0	100	100	95-100	80-90	30-40	14-22
	46-60	L, SIL	CL	A-6, A-4	0	0	100	100	90-100	65-80	25-40	8-18
89:												
Norborne--------	0-8	L	ML, CL-ML	A-4	0	0	100	100	90-100	60-75	0-20	2-6
	8-40	L, SIL, VFSL	CL, CL-ML	A-4	0	0	100	100	90-100	60-75	0-25	5-10
	40-65	L, VFSL, FSL	CL-ML, ML	A-4	0	0	100	100	85-100	50-75	0-20	2-6
93:												
Booker----------	0-13	SIC	CH, CL	A-7	0	0	100	100	95-100	95-100	45-75	30-45
	13-48	C	CH	A-7	0	0	100	100	100	95-100	65-85	40-55
	48-60	C, SIC	CH	A-7	0	0	100	100	95-100	95-100	50-75	30-45
94:												
Grable----------	0-8	SIL	CL, CL-ML	A-6, A-4	0	0	100	100	80-95	80-95	25-40	5-20
	8-26	SIL, VFSL	CL-ML, CL	A-6, A-4	0	0	100	100	80-95	80-95	0-25	5-15
	26-60	FS, LS, S	SM, SC-SM, SP-SM	A-3, A-2	0	0	100	100	65-80	5-35	0-20	NP-5
99:												
Haynie----------	0-7	VFSL	CL-ML, ML	A-4	0	0	100	100	85-100	70-100	0-25	NP-5
	7-60	SIL, VFSL	CL, CL-ML	A-4, A-6	0	0	100	100	85-100	85-100	25-35	5-15
Waldron---------	0-4	SIC	CH, CL	A-7	0	0	100	100	95-100	90-100	45-65	30-45
	4-50	SR SICL SIC	CH, CL	A-7	0	0	100	100	95-100	90-100	40-65	20-45
	50-60	SR VFSL SIL	CL, CL-ML	A-4, A-6	0	0	100	100	85-95	50-65	25-35	5-15

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ENGINEERING INDEX PROPERTIES
Chariton County, Missouri: Detailed Soil Map Legend

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			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
	In				Pct	Pct					Pct	
M-W:												
Water----------	---	---	---	---	---	---	---	---	---	---	---	---
W:												
Water----------	---	---	---	---	---	---	---	---	---	---	---	---