

APPENDIX M
CALIBRATED PARAMETERS OF THE REFLECTION
CRACKING AMOUNT AND SEVERITY MODEL

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This appendix present the values of the S-shaped reflection cracking amount and severity model parameters, ρ and β , for all of the test sections on which cracking was observed. There are three possible sets of the ρ and β parameters on each test section: the High severity, the Medium + High severity and the Low + Medium + High severity levels. The LTPP test section results are shown in Tables M-1 through M-13.

1. LTPP TEST SECTIONS

Table M-1. Calibrated parameters of AC/AC overlays in WF climatic zone.

Section	State	Model Parameters						Remark
		H + M + L		H + M		H		
		β	ρ	β	ρ	β	ρ	
021002	AK	0.965	259.11	1.391	317.99	1.333	671.05	
021004	AK	0.265	2493.43	0.517	4696.20	3.207	5191.29	
021008	AK							No crack
026010	AK							No crack
091803	CT	0.756	640.37	2.298	1255.32			
111400	DC							No crack
181028	IN							No crack
190107	IA							No crack
191044	IA							No crack
196150	IA							No crack
216043	KY							No crack
231009	ME	0.735	2299.87	0.668	4564.84			
240901	MD							No crack
240902	MD							No crack
240903	MD							No crack
240960	MD							No crack
240961	MD							No crack
240962	MD							No crack
241634	MD							No crack
270502	MN	0.967	322.29	1.479	1100.04	5.510	3620.71	
270503	MN	0.673	1111.32	0.834	2330.07	2.856	4662.33	
270504	MN	0.605	1958.00	1.531	2845.37	2.754	3408.62	
270505	MN	0.779	204.06	0.922	819.18	0.975	2054.42	
270559	MN	0.196	2493.43	0.445	3956.79	1.287	4984.75	
270560	MN	0.595	511.12	0.891	1877.84	3.086	4163.94	
270561	MN	0.891	562.72	1.064	1038.24	1.651	3497.14	
271023	MN	0.226	93.36	4.593	2006.00			
271085	MN	0.932	724.62	4.445	1956.40	2.951	2477.41	
290502	MO							No crack

Section	State	Model Parameters						Remark
		H + M + L		H + M		H		
		β	ρ	β	ρ	β	ρ	
290503	MO							No crack
290504	MO							No crack
290505	MO							No crack
295403	MO	1.083	2068.20	6.159	3861.86	2.841	5441.40	
295413	MO	3.624	3879.37	3.700	4463.56	2.160	7417.96	
340502	NJ	1.003	2628.56	2.782	3855.60			
340503	NJ	2.365	3617.12	4.107	4761.25			
340504	NJ	1.470	4177.91	5.392	4701.23			
340505	NJ	0.935	1582.12	2.333	3244.22			
361008	NY	1.789	2282.40	1.083	3709.18			
361011	NY							No crack
361643	NY	0.736	4278.16	1.090	3923.40	2.664	3410.05	
404164	OK							60% in 70 days
421605	PA	0.884	1197.66					
421618	PA	4.561	3031.34	7.862	3958.55			
472008	TN	5.868	2955.60					
473108	TN	3.218	2751.85					
501004	VT							No crack
501681	VT	1.120	6155.32					
501683	VT	2.096	7998.09					
512021	VA	6.603	3770.20	2.931	4395.25			
890901	PQ							No crack
890902	PQ							No crack
890903	PQ							No crack
891021	PQ	0.951	2680.16					
891125	PQ	1.011	578.72					
891127	PQ	1.490	1297.71	1.565	2126.92	3.656	2576.78	
89A901	PQ							No crack
89A902	PQ							No crack
89A903	PQ							No crack

Table M-2. Calibrated parameters of AC/AC overlays in DF climatic zone.

Section	State	Model Parameters						Remark
		H + M + L		H + M		H		
		β	ρ	β	ρ	β	ρ	
080501	CO	1.095	2191.48	4.346	3077.12	2.333	4108.79	
080502	CO	0.908	2551.02	1.990	2931.90	11.140	3014.69	
080503	CO	7.565	2561.66	6.857	2810.08	5.751	3030.00	
080504	CO	4.501	2061.10	21.241	2576.50	20.323	2910.96	
080505	CO	2.325	1970.86	2.073	2814.74			
080559	CO	3.328	1406.19	6.678	2503.62	31.976	2906.12	
080560	CO	5.368	2432.08	6.983	2721.08	5.680	3333.01	
081047	CO							No crack
086013	CO							No crack
483875	TX	1.074	2299.40	1.383	4951.88			
486079	TX	0.742	75.49	0.695	70.89	0.600	73.04	
531008	WA	0.681	978.41	0.675	1298.94	3.553	3151.42	
906405	SK							No crack
906410	SK	0.275	673.82	0.337	1136.43	1.371	3234.94	
906412	SK	0.478	789.54	0.617	1710.94	1.835	2961.07	
906801	SK							No crack

Table M-3. Calibrated parameters of AC/AC overlays in WNF climatic zone.

Section	State	Model Parameters						Remark
		H + M + L		H + M		H		
		β	ρ	β	ρ	β	ρ	
010502	AL	9.062	2899.64					
010503	AL	2.753	4409.68					
010504	AL							No crack
010505	AL	3.999	2696.95					
014129	AL	2.400	1266.20					
053058	AR	0.881	1829.40	3.759	3519.13			
066044	CA							No crack
134420	GA	1.595	2584.91					
280902	MS							No crack
280903	MS							No crack
280959	MS							No crack
283087	MS	2.716	801.54	1.239	2826.60			
370960	NC							No crack
370961	NC							No crack
370962	NC							No crack
370963	NC							No crack
370964	NC							No crack
370965	NC							No crack
371645	NC							No crack
371802	NC							No crack
400502	OK	2.870	610.95	2.093	2198.01			
400503	OK	7.630	1875.80					
400504	OK	3.735	2831.85					
400505	OK	1.308	287.49	1.970	2880.31			
400560	OK	1.904	2046.74	0.958	4950.00			
404087	OK							No crack
404154	OK							No crack
451025	SC	1.482	1271.17					
48A502	TX	1.428	3434.06	5.768	4843.79			
48A503	TX	2.694	4607.50					
48A504	TX							No crack
48A505	TX	0.836	2970.54					
512004	VA	3.444	1922.09	9.443	2008.55			

Table M-4. Calibrated parameters of AC/Mill/AC overlays in WF climatic zone.

Section	State	Model Parameters						Remark
		H + M + L		H + M		H		
		β	ρ	β	ρ	β	ρ	
090903	CT							No crack
090960	CT							No crack
090961	CT							No crack
090962	CT							No crack
200103	KS	2.660	1012.82					
200104	KS							No crack
200105	KS	3.745	971.57					
200106	KS	3.941	1014.22					
200108	KS							No crack
200109	KS							No crack
200110	KS	3.915	901.20					
200111	KS							No crack
200112	KS	3.793	949.31					
200159	KS							No crack
201005	KS							No crack
201009	KS	3.348	2595.59					
211034	KY							No crack
260115	MI							No crack
260116	MI							No crack
260117	MI							No crack
260118	MI							No crack
260120	MI							No crack
260121	MI							No crack
260123	MI							No crack
260124	MI							No crack
260159	MI							No crack
270506	MN	0.702	1004.85	1.231	1842.79			
270507	MN	0.247	4912.94	0.589	4796.83			
270508	MN	0.876	1328.35	1.760	2418.64	2.219	6158.60	
270509	MN	0.789	644.78	2.459	2267.59	5.762	3787.42	
271028	MN							No crack
276251	MN	0.311	905.73					
290506	MO							No crack
290507	MO	3.908	2700.58					
290508	MO							No crack
290509	MO	8.124	2430.04					
291010	MO							No crack
331001	NH							No crack
340506	NJ	3.565	4236.95					
340507	NJ	8.155	4148.84					
340508	NJ	3.106	3630.59					
340509	NJ	1.281	4741.38					
340559	NJ	2.970	3717.52	6.232	5001.53			
340560	NJ	2.009	5369.19					
340901	NJ							No crack
340902	NJ							No crack
340903	NJ							No crack

Table M-4. Calibrated parameters of AC/Mill/AC overlays in WF climatic zone (continued).

Section	State	Model Parameters						Remark
		H + M + L		H + M		H		
		β	ρ	β	ρ	β	ρ	
340960	NJ							No crack
340961	NJ	8.996	4275.29					
340962	NJ							No crack
341003	NJ	0.978	5631.28					
341011	NJ							No crack
341030	NJ							No crack
341031	NJ							No crack
341033	NJ	2.535	1614.23	2.560	1835.50			
361644	NY	0.607	5552.37					
371801	NC	4.714	2537.93	4.784	2683.37			
421597	PA							No crack
841684	NB							No crack
871622	ON	1.390	909.61	3.410	2182.15			
871680	ON	1.200	2918.88	0.976	4410.71	1.076	5248.07	
871806	ON	1.365	3972.48	1.051	5966.43			

Table M-5. Calibrated parameters of AC/Mill/AC overlays in DNF climatic zone.

Section	State	Model Parameters						Remark
		H + M + L		H + M		H		
		β	ρ	β	ρ	β	ρ	
040502	AZ	4.163	4271.87	2.950	5891.55			
040503	AZ	2.122	2940.47	3.106	4165.53			
040504	AZ	3.567	4876.01	9.530	5099.01			
040505	AZ	1.858	3901.33	3.200	4112.13	1.653	6478.76	
040506	AZ	6.718	4260.71	8.279	4736.42	21.845	5086.69	
040507	AZ							No crack
040508	AZ	3.377	3912.07	2.205	5567.41			
040509	AZ	1.369	3567.65	2.343	4223.90	1.622	6002.99	
040559	AZ	3.409	3593.92	2.852	4916.43			
040560	AZ	3.534	3663.92	3.978	4844.05			
041007	AZ	1.863	2592.64	5.976	3231.69			
060504	CA	3.878	3239.27	8.877	3920.00			
060507	CA	4.999	3618.72	7.189	4193.35			
060563	CA	1.034	8677.29					
060568	CA	2.334	4207.03					
068149	CA	5.716	4490.91	9.271	4564.57			

Table M-6. Calibrated parameters of AC/Mill/AC overlays in WNF climatic zone.

Section	State	Model Parameters						Remark
		H + M + L		H + M		H		
		β	ρ	β	ρ	β	ρ	
010506	AL							No crack
010507	AL							No crack
010508	AL							No crack
010509	AL	4.701	4207.03					
010563	AL	5.393	4290.66					
010564	AL							No crack
011019	AL							No crack
014155	AL							No crack
052042	AR	2.250	2979.32	3.082	4649.33			
120901	FL							No crack
120902	FL							No crack
281001	MS							No crack
282807	MS	0.489	1027.64					
283081	MS	0.746	2636.36					
283091	MS	0.588	559.99	1.010	3500			
371028	NC							No crack
371814	NC	1.875	1896.21					
371992	NC							No crack
400506	OK	2.645	1577.73					
400507	OK							No crack
400508	OK							No crack
400509	OK	4.411	1862.29	2.976	2924.85			
412002	OR							No crack
471029	TN	4.137	1704.25					
480113	TX							No crack
480114	TX							No crack
480116	TX							No crack
480117	TX							No crack
480118	TX							No crack
480120	TX							No crack
480121	TX							No crack
480122	TX							No crack
480123	TX							No crack
480124	TX							No crack
480160	TX							No crack
480161	TX							No crack
480162	TX							No crack
480163	TX							No crack
480164	TX							No crack
480165	TX							No crack
480167	TX							No crack
48A506	TX	6.157	4483.73					
48A507	TX							No crack
48A508	TX	2.912	4009.76					
48A509	TX	3.246	3890.23					
511023	VA	4.868	2361.23					
511464	VA	6.425	2289.81	6.425	2289.81			HML = HM

Table M-7. Calibrated parameters of CRC/AC overlays in WF climatic zone.

Section	State	Model Parameters						Remark
		H + M + L		H + M		H		
		β	ρ	β	ρ	β	ρ	
095001	CT							No crack
105005	DE							No crack
175843	IL							No crack
175849	IL							No crack
175854	IL							No crack
179267	IL							No crack
180901	IN	1.031	9483.01					
180902	IN							No crack
180904	IN	1.898	4974.22	3.102	5061.18			
180905	IN	1.171	6537.4	1.216	8319.26			
185043	IN							No crack
185518	IN							No crack
199116	IA	0.606	7766.99					
260901	MI							No crack
260902	MI							No crack
260903	MI							No crack
275076	MN	1.009	4971.47	1.493	6915.26			
395010	OH							No crack
421617	PA	2.864	2523.45					
555037	WI							No crack
555040	WI							No crack

Table M-8. Calibrated parameters of JPC/AC overlays in WF climatic zone.

Section	State	Model Parameters						Remark
		H + M + L		H + M		H		
		β	ρ	β	ρ	β	ρ	
183003	IN	1.777	1482.73	1.490	2126.02			
193006	IA							No crack
193055	IA							No crack
270901	MN	0.353	5608.42	0.352	8881.73			
270902	MN	0.249	18902.46	0.326	23698.11			
270903	MN	0.281	15072.46	0.234	24557.28			
270909	MN	0.689	691.96	0.198	22998.11			
270910	MN	0.063	1990.97	0.532	5440.66			
295393	MO	5.567	2355.11	4.258	2780.28	2.990	3905.46	
393013	OH	0.603	183.25	3.377	2449.63			
460601	SD	1.883	3760.66					
460602	SD	1.121	3375.38	1.726	4343.87	1.071	6819.35	
460605	SD	4.065	3707.32	2.393	4510.51	3.186	4572.37	
501682	VT	0.535	23.75	0.599	2497.00			
833802	MB	0.699	423.89	0.675	4036.65			

Table M-9. Calibrated parameters of JRC/AC overlays in WF climatic zone.

Section	State	Model Parameters						Remark
		H + M + L		H + M		H		
		β	ρ	β	ρ	β	ρ	
170601	IL							No crack
170602	IL							No crack
170603	IL	0.424	751.68	1.249	4843.29	2.699	6386.50	
170604	IL	0.486	1038.80	1.255	6915.75			
170605	IL							No crack
170660	IL							No crack
170661	IL							No crack
175217	IL	1.171	1393.61	0.722	1686.47			
179327	IL	2.322	1088.89	1.207	2913.93	2.369	3599.00	
18A901	IN	4.765	1254.58	4.628	1317.18	6.982	2011.14	
18A902	IN	0.951	2858.82	2.286	2972.68			
18A903	IN							No crack
18A959	IN	1.650	2136.13	5.118	2404.70			
18A960	IN							No crack
18A961	IN	2.097	726.96	3.123	972.00	5.031	2151.72	
190601	IA	1.562	3489.90	0.920	6126.68	1.100	6849.38	
190602	IA	1.902	2911.81	1.472	3507.14			
190605	IA	1.216	3539.39					
199126	IA	1.554	717.10	1.761	3454.83			
204067	KS	0.608	5512.32					
290901	MO	3.047	2088.42					
290902	MO	2.638	700.00	2.617	864.01			
290903	MO	1.775	1334.14	1.497	2428.01			
290959	MO	1.978	1899.06					
290960	MO	2.821	1313.42					
290961	MO	2.622	1634.48	2.723	1939.04			
290962	MO	2.081	777.49	2.929	1296.83			
290963	MO	4.683	499.70	2.500	1371.14	2.124	2499.12	
290964	MO	3.031	1754.30	1.449	3119.98			
294069	MO	2.590	2072.02	1.275	3173.28			
295483	MO	0.806	1757.13	0.768	2210.07	1.380	5460.17	
394018	OH							No crack
421613	PA	0.441	586.60					
421614	PA	0.382	418.20					
421691	PA	0.367	2058.82	0.960	3436.64	7.502	4136.91	
550901	WI	0.308	2130.56	0.581	4583.75	1.510	7799.83	
550902	WI	0.778	2188.13	0.919	3563.78	1.613	5920.96	
550903	WI	0.774	570.43	1.239	2084.37	2.713	4079.72	
550907	WI	0.607	1227.02	0.564	2230.79	1.362	4785.47	
550908	WI	0.768	610.51	1.198	2355.61	2.499	5017.57	
550909	WI	0.393	1294.34	0.554	2215.93	0.906	7640.17	

Table M-9. Calibrated parameters of JRC/AC overlays in WF climatic zone (continued).

Section	State	Model Parameters						Remark
		H + M + L		H + M		H		
		β	ρ	β	ρ	β	ρ	
55A901	WI	0.482	504.77	0.681	1688.39			
55A902	WI	0.892	2055.53	0.719	4706.15			
55A903	WI	0.787	1586.83					
55A907	WI	0.791	1084.54					
55A908	WI	0.810	719.00	2.214	5485.63			
55A909	WI	1.257	755.50	1.750	3447.63			
55B901	WI	1.159	329.42	1.117	807.15			
55B902	WI	1.061	968.90	1.072	1671.61	5.923	4598.87	
55B903	WI	0.898	987.53	2.665	4185.75			
55B907	WI	0.560	1444.48	0.747	2211.36			
55B908	WI	0.897	770.26	2.546	3300.22			
55B909	WI	1.012	679.18	1.002	1501.95	2.379	5035.05	
836452	MB	0.941	432.11	0.445	1834.95			

Table M-10. Calibrated parameters of AC/seal coat/AC overlays in WF climatic zone.

Section	State	Model Parameters						Remark
		H + M + L		H + M		H		
		β	ρ	β	ρ	β	ρ	
473110	TN	0.854	3017.57					
810502	AB	0.972	2422.18	0.713	5358.12			
810503	AB	2.136	3925.04	4.646	5245.86			
810504	AB	2.621	3227.62	1.027	6967.05	2.260	7309.02	
810505	AB	1.921	3286.31	1.799	6750.12	2.372	7258.45	
830502	MB	1.105	3280.73					
830503	MB	2.307	3449.55	1.247	5841.54	2.182	6893.38	
830504	MB	1.386	3031.80	3.533	4757.90	3.346	5720.18	
830505	MB	0.727	3278.12	0.975	5536.19	1.509	7929.08	
830509	MB	1.196	2987.38	2.211	5294.58	1.597	7871.75	
836450	MB	2.142	3280.02					
836451	MB	1.610	3113.87	0.856	7062.29			

Table M-11. Calibrated parameters of AC/seal coat/AC overlays in WNF climatic zone.

Section	State	Model Parameters						Remark
		H + M + L		H + M		H		
		β	ρ	β	ρ	β	ρ	
062002	CA							No crack
062051	CA							No crack
134113	GA							No crack
283094	MS							No crack
481119	TX	3.267	3512.14					
483855	TX	1.068	3011.34					
483865	TX	2.909	716.98					

Table M-12. Calibrated parameters of AC/friction course/AC overlays in WF climatic zone.

Section	State	Model Parameters						Remark
		H + M + L		H + M		H		
		β	ρ	β	ρ	β	ρ	
230502	ME							No crack
230503	ME							No crack
230504	ME	13.889	3511.78					
230505	ME							No crack
230559	ME							No crack
240504	MD	1.009	3041.47	1.607	4308.59			
240505	MD	0.523	679.28	1.157	1952.56	4.953	4261.28	
240559	MD	0.835	768.99	3.290	3565.63			
240560	MD	1.018	2009.67	13.339	4654.15			
240561	MD	0.886	1542.61	5.523	3963.47			
240562	MD	1.076	2820.29	2.988	4998.90			
240563	MD	2.276	1461.25	5.618	3695.47			
371040	NC							No crack
472001	TN							No crack

Table M-13. Calibrated parameters of AC/friction course/AC overlays in WNF climatic zone.

Section	State	Model Parameters						Remark
		H + M + L		H + M		H		
		β	ρ	β	ρ	β	ρ	
011001	AL	8.131	2681.98					
280502	MS	7.217	2512.12					
280503	MS	3.266	1671.77					
280504	MS							No crack
280505	MS	2.710	2828.65					

2. NEW YORK CITY TEST SECTIONS WITH INTERLAYERS

The New York city test section results are shown in Table M-14.

Table M-14. Calibrated parameters of NYC test sections.

Interlayer Type	Model Parameters						Interlayer Placed Between
	H + M + L		H + M		H		
	β	ρ	β	ρ	β	ρ	
Overlay on 20-ft Joint Spacing JPC Base							
Control	0.867	322.42	0.805	473.25			
Saw/Seal	0.991	2197.32	0.676	4753.42			
Petrotac Std. 1	0.766	1123.27	0.985	2237.87			HMA binder/ PCC
Petrotac Std. 2	0.731	1402.14	0.711	2799.96			HMA binder/ PCC
Petrotac Std. 3	0.955	1403.55	1.171	2034.02			HMA binder/ PCC
Petrotac Std. 4	0.539	2260.60	1.092	2660.89			HMA binder/ PCC
Petrotac Alt. 1	0.162	550.14	0.835	2618.90			HMA surface/ binder
Petrotac Alt. 2	0.554	1622.74	0.923	3385.46			HMA surface/ binder
Paveprep	0.715	484.53	2.158	1510.52			HMA binder/ PCC
ISAC	1.728	1299.36	0.881	3037.79			HMA binder/ PCC
Glasgrid 8501	1.165	1458.92	1.659	2014.79			HMA surface/ binder
Glasgrid 8502	1.367	1184.70	2.026	2308.27			HMA surface/ binder
Overlay on 15-ft Joint Spacing JPC Base							
Control	2.684	991.36	2.084	1611.83			
Saw/Seal	1.050	2578.42	1.212	5019.59			
Petrotac Std. 1	2.485	1192.14	1.817	2358.40			HMA binder/ PCC
Petrotac Std. 2	1.627	1607.16	0.819	4612.83			HMA binder/ PCC
Petrotac Std. 3	2.625	1037.27	1.003	2258.14			HMA binder/ PCC
Petrotac Std. 4	2.117	1194.36	1.160	3517.76			HMA binder/ PCC
Petrotac Alt. 1	2.872	906.24	2.487	1346.83			HMA surface/ binder
Petrotac Alt. 2	23.709	856.86	2.781	1098.01			HMA surface/ binder
Paveprep	1.761	1388.10	0.757	6103.60			HMA binder/ PCC
ISAC	1.010	1622.78	0.773	3318.02			HMA binder/ PCC
Glasgrid 8501	1.686	558.64	2.783	996.77			HMA surface/ binder
Glasgrid 8502	0.499	351.29	1.451	1029.74			HMA surface/ binder

3. TEXAS TEST SECTIONS WITH INTERLAYERS

The Texas test section results are shown in Tables M-15, M-16 and M-17.

Table M-15. Calibrated parameters of Pharr District.

Interlayer Type	Model Parameters						Interlayer Placed Between
	H + M + L		H + M		H		
	β	ρ	β	ρ	β	ρ	
Control							
GlasGrid							AC OL/ AC
HaTelite							AC OL/ AC
PaveDry							AC OL/ AC
Add. 1" HMA							AC OL/ AC
Stargrid							AC OL/ AC
Bitutex							AC OL/ AC
Petrogrid							AC OL/ AC

Table M-16. Calibrated parameters of Waco District.

Interlayer Type	Model Parameters						Interlayer Placed Between
	H + M + L		H + M		H		
	β	ρ	β	ρ	β	ρ	
Control	0.360	906.71					
PetroGrid	0.800	1881.81					AC OL/ JPC
Saw & Seal	0.427	308.27					AC OL/ JPC
GlasGrid	1.043	1427.13					AC OL/ JPC
Pave-Dry	0.606	1873.72					AC OL/ JPC
Add. 1" HMA	0.447	729.85					AC OL/ JPC
PavePrep	1.074	2379.75					AC OL/ JPC

Table M-17. Calibrated parameters of Amarillo District.

Interlayer Type	Model Parameters						Interlayer Placed Between
	H + M + L		H + M		H		
	β	ρ	β	ρ	β	ρ	
Control	1.266	1664.90					
GlasGrid	1.355	1758.09					AC OL/ AC
PaveTrac	1.490	1819.89					AC OL/ AC
HaTelit	0.667	1619.74					AC OL/ AC
PetroGrid	2.383	2036.85					AC OL/ AC
Pave-Dry	1.494	1766.20					AC OL/ AC
StarGrid	1.436	2015.39					AC OL/ AC
Add. 1" HMA	6.784	1762.73					AC OL/ AC
Hot In-Place Recycling	1.345	1633.91					AC OL/ AC
1.25" PFC over 1" Level Up	0.896	1929.89					AC OL/ AC
1.25" PFC over Seal Coat	2.806	1997.73					AC OL/ AC