

Job Number:
Test Date: 17/11/2004
Overlay: AC (mm)

Ave Surf Temp: 18°C
Seasonal Factor: 1.00
Isotropic Modulus: 3047 MPa

Layering Data Source: Test Pit Logs
Traffic Data Source: RAMM C/Way Table
Distress Data Source: Site Inspection

Pavement Model

Chainage		Surfacing		Layer Types / Depths								Traffic Parameters			Design	
From	To	Type	Thick.	1		2		3		4		AADT	ESA ₀	Grow. (%)	Life	Traffic
(km)	(km)		(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)				(yrs)	(ESA)
0.000	0.360	AC	30	UB	70	UB	110	UB	140			10001	2.E+05	2.0	25	4.98E+06
0.360	0.736	AC	35	UB	100	UB	65	UB	100			10001	2.E+05	2.0	25	4.98E+06
0.736	1.150	AC	30	UB	100	UB	120	UB	130			10001	2.E+05	2.0	25	4.98E+06

Structural Evaluation (ELMOD) & Sub-Sectioning of Uniform Treatment Intervals

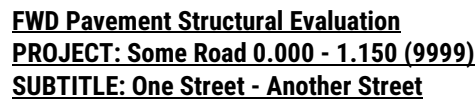
Chainage		Layer 1 Mod.		Subgrade Mod.		Subgrade CBR		Central Defl.		Curvature		Life		SNP	Critical Layer
From	To	50%	10%	50%	10%	50%	10%	50%	95%	50%	95%	50%	10%	50%	
(km)	(km)	(MPa)	(MPa)	(MPa)	(MPa)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(yrs)	(yrs)		
0.000	0.038	8139	8139	61	61	6.6	6.6	0.378	0.638	0.068	0.104	44	44	3.8	5
0.038	0.063	1153	1153	148	148	26.6	26.6	0.502	0.502	0.209	0.209	4.4	4.4	4.6	5
0.063	0.188	12213	6161	92	60	16.6	13.6	0.394	0.585	0.065	0.108	170	120	4.7	5
0.188	0.313	4107	3231	85	65	12.5	10.0	0.584	0.680	0.138	0.143	6.7	5.3	4.5	5
0.313	0.338	3046	3046	85	85	11.6	11.6	0.633	0.633	0.175	0.175	0.87	0.87	4.4	5
0.338	0.413	10598	5133	76	73	12.9	8.2	0.431	0.447	0.077	0.078	170	170	4.6	5
0.413	0.488	2820	2022	83	56	14.4	10.2	0.597	0.870	0.138	0.202	4.6	4.8	4.5	5
0.488	0.625	8774	4219	76	49	11.0	7.0	0.458	0.616	0.082	0.107	170	43	4.4	5
0.625	0.713	1885	1006	86	37	10.8	6.0	0.617	1.431	0.171	0.413	1.6	9.8	4.1	5
0.713	0.938	7327	3409	77	54	13.5	8.6	0.425	0.723	0.067	0.121	170	12	5.0	5
0.938	0.963	1383	1383	57	57	8.9	8.9	0.883	0.883	0.195	0.195	3.3	3.3	4.0	5
0.963	1.088	4749	3563	80	67	12.9	11.9	0.521	0.526	0.091	0.109	170	170	5.0	5
1.088	1.150	4198	2226	70	42	11.5	7.1	0.623	0.820	0.150	0.155	3.6	2.6	4.8	5

Recommendations for Rehabilitation

Strain Criteria: Austroads 2011-2012

#	Chainage		Length (km)	AC Overlay (mm)	Minimum Reconstruction or Widening Depth (mm)
	From	To			
	(km)	(km)			
1	0.000	0.038	0.038	0	460
2	0.038	0.063	0.025	135	360
3	0.063	0.188	0.125	0	500
4	0.188	0.313	0.125	40	460
5	0.313	0.338	0.025	125	390
6	0.338	0.413	0.075	0	440
7	0.413	0.488	0.075	135	470
8	0.488	0.625	0.138	0	530
9	0.625	0.713	0.088	150	520
10	0.713	0.938	0.225	40	500
11	0.938	0.963	0.025	130	470
12	0.963	1.088	0.125	0	470
13	1.088	1.150	0.063	115	540

Note - overlay thickness is determined as 90 percentile strengthening for each section to accommodate the design traffic, but greater thicknesses may be required for shape correction or to meet minimum basecourse thickness and subbase drainage requirements.



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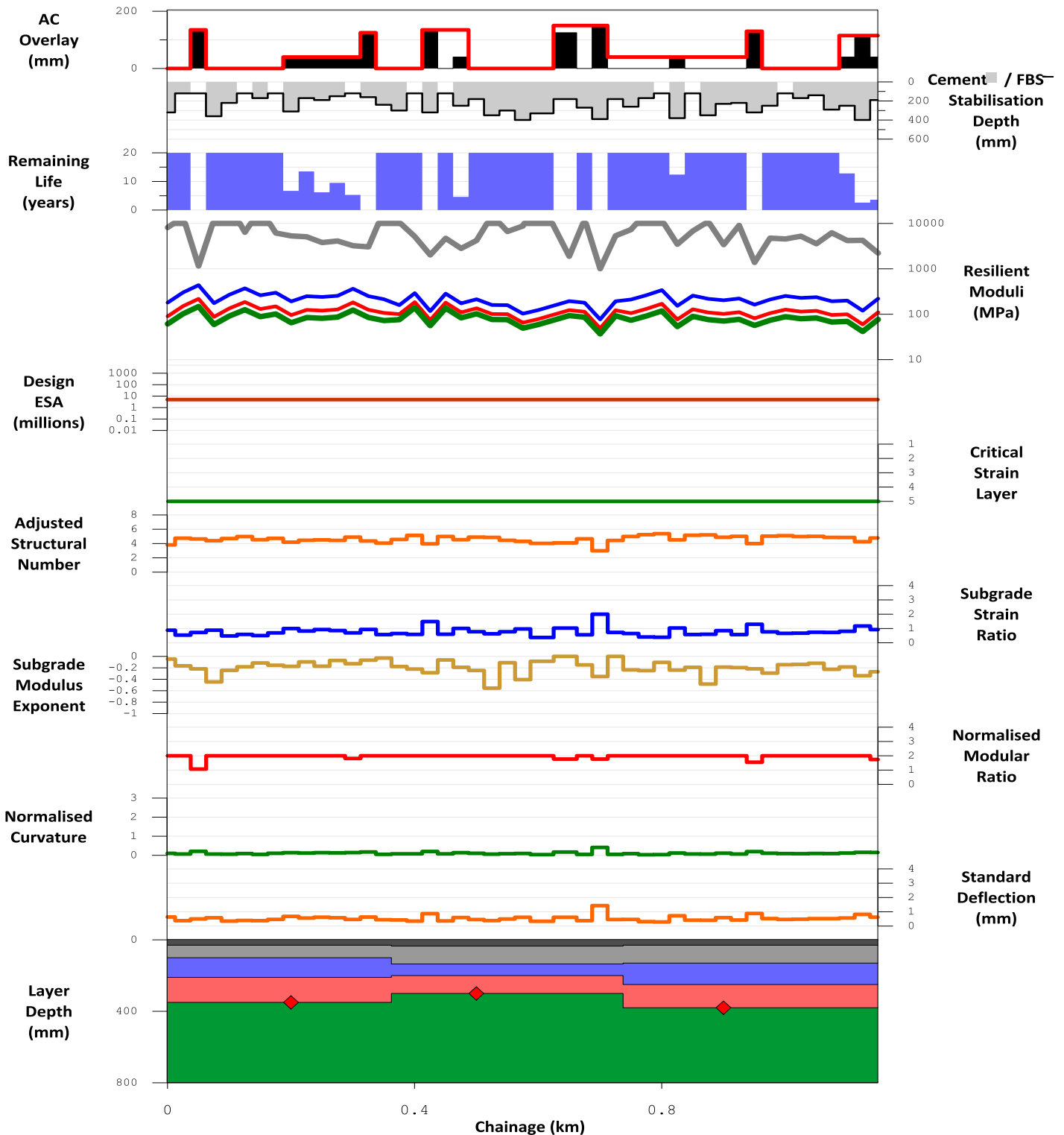
Loc.	Lane	Path	Resilient Moduli					CBR	Life	Layer Depths				Crit. Layer	Cent. Defl.	Curv. Func.	SNP	Depth RCN	AC OVL
			E1	E2	E3	E4	Esg			1	2	3	4						
(km)			(MPa)						(yrs)	(mm)					(mm)	(mm)		(mm)	(mm)
0.000	L1	L	8139	180	90		61	7	44	100	110	140		5	0.64	0.10	3.8	460	0
0.025	R1	C	13943	302	151		102	17	170	100	110	140		5	0.38	0.07	4.8	380	0
0.050	L1	R	1153	436	218		148	27	4.4	100	110	140		5	0.50	0.21	4.6	360	135
0.075	R2	L	12213	175	88		60	14	120	100	110	140		5	0.58	0.06	4.4	500	0
0.100	L2	C	25335	270	135		92	17	170	100	110	140		5	0.35	0.06	4.7	430	0
0.125	R2	R	6379	372	186		126	22	170	100	110	140		5	0.39	0.09	5.0	360	0
0.150	L3	L	21051	261	130		88	14	170	100	110	140		5	0.38	0.05	4.5	400	0
0.175	R3	C	6161	298	149		101	17	170	100	110	140		5	0.47	0.11	4.7	370	0
0.200	L3	R	5317	192	96		65	10	6.7	100	110	140		5	0.68	0.14	4.2	460	40
0.225	R1	L	5074	250	125		85	13	14	100	110	140		5	0.56	0.12	4.5	400	40
0.250	L1	L	3792	240	120		82	14	6.2	100	110	140		5	0.62	0.14	4.5	410	40
0.275	R1	L	4107	254	127		86	12	9.5	100	110	140		5	0.58	0.13	4.4	390	40
0.300	L1	L	3231	365	182		124	19	5.3	100	110	140		5	0.47	0.14	4.9	360	40
0.325	R1	L	3046	250	125		85	12	0.9	100	110	140		5	0.63	0.18	4.4	390	125
0.350	L1	L	19249	214	107		73	8	170	100	110	140		5	0.45	0.05	4.1	430	0
0.375	R1	L	10598	158	100		76	13	170	135	65	100		5	0.43	0.08	4.6	440	0
0.400	L1	L	5133	292	185		140	25	170	135	65	100		5	0.35	0.08	5.1	320	0
0.425	R1	L	2022	117	74		56	10	4.8	135	65	100		5	0.87	0.20	4.0	470	135
0.450	L1	L	4709	284	180		136	19	170	135	65	100		5	0.36	0.08	5.0	310	0
0.475	R1	L	2820	174	110		83	14	4.6	135	65	100		5	0.60	0.14	4.5	400	40
0.500	L1	L	4219	214	135		103	19	170	135	65	100		5	0.46	0.11	4.9	370	0
0.525	R1	L	15218	160	101		77	20	170	135	65	100		5	0.38	0.06	4.9	490	0
0.550	L1	L	6643	159	100		76	11	170	135	65	100		5	0.50	0.08	4.4	430	0
0.575	R1	L	8774	103	65		49	10	43	135	65	100		5	0.62	0.10	4.3	530	0
0.600	L1	L	40171	124	78		59	7	170	135	65	100		5	0.34	0.04	4.0	480	0
0.650	L1	L	1885	195	123		93												

PAVEMENT STRUCTURAL ANALYSIS

FALLING WEIGHT DEFLECTOMETER SURVEY

Some Road 0.000 - 1.150 (9999)

One Street - Another Street



LEGEND

LAYERS: Unbound  Cement  FBS  Layer 2  Layer 3  Layer 4  Subgrade  

SURFACING: Chipseal  AC  OGPA  TESTPIT / CORING DATA: Existing  Proposed 