

Appendix A
Overlay Thickness Designs
&
Total AC Thickness Structure

Overlay Design for Patched and Non-patched Pavements

LOCAL TRENCHES

*Note: Design Period = 10 Years

Overlay Design for Patched and Non-patched Pavements

LOCAL TRENCHES

Trench No.	Trench Location	Sec. ID	Ref. No.	Cum. ESALS	Patched (Surrounding Trench Area)					Non-Patched (Control Area)					Overlay Thickness***	
					Average Normalized Deflection D ₀ (mils)	Structural No. for future traffic	Structural Coefficient Existing Pavement	Existing Thickness (in.)		Average Normalized Deflection D ₀ (mils)	Structural No. for future traffic	Structural Coefficient Existing Pavement	Existing Thickness (in.)		Patched (in.)	Non-Patched (in.)
								AC	Base				AC	Base		
14	7810 Granito Dr	2323850	2006007102	49,792	8.69	1.76	0.39	5.3	-	6.36	1.47	0.44	4.8	-	0.0	0.0
15	Helen Av (ES)	2542400	2004004683	88,526	6.45	1.72	0.44	6.0	-	10.73	2.21	0.44	6.0	-	0.0	0.0
17	9738 Helen Av	2542400	2004010495	49,792	11.11	1.97	0.30	8.4	-	16.09	2.40	0.29	7.5	-	0.0	0.5
18	19325 Londelius St	3280200	2004007007	719,284	14.80	4.53	0.27	6.0	8.9	8.19	3.83	0.33	6.4	9.6	1.2	0.0
19	825 Nimes Rd	3901500	2005004215	49,792	20.07	2.39	0.29	7.2	-	10.21	2.09	0.44	7.3	-	0.7	0.0
20	8525 Tobias Av	5326500	2004002287	570,031	16.09	4.10	0.42	6.5	-	18.50	4.11	0.38	5.9	-	3.1	4.3
21	350 Surfview Dr	4790400	2011002581	49,792	23.88	2.57	0.32	5.0	-	11.81	2.16	0.42	6.0	-	2.2	0.0
22	14303 Sylvan St	5241800	2008002619	1,411,383	15.59	4.14	0.32	8.5	-	6.01	3.35	0.44	8.0	-	3.3	0.0
23	4550 Ensenada Dr	1817900	2003004036	49,792	32.99	2.43	0.37	2.4	-	22.13	2.12	0.44	2.0	-	3.5	2.7
24	24720 Gilmore St	2194400	2003000359	49,792	15.30	2.04	0.42	4.0	-	11.29	1.79	0.44	4.0	-	0.8	0.0

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Overlay Design for Patched and Non-patched Pavements

Trench No.	Trench Location	Sec. ID	Ref. No.	Cum. ESALS	Patched (Surrounding Trench Area)					Non-Patched (Control Area)					Overlay Thickness***	
					Average Normalized Deflection D ₀ (mils)	Structural No. for future traffic	Structural Coefficient Existing Pavement	Existing Thickness (in.)		Average Normalized Deflection D ₀ (mils)	Structural No. for future traffic	Structural Coefficient Existing Pavement	Existing Thickness (in.)		Patched (in.)	Non-Patched (in.)
								AC	Base				AC	Base		
25	3628 & 3634 Kinney St	2948700	2006009217	49,792	5.22	1.57	0.44	6.5	-	3.96	0.31	0.44	6.5	-	0.0	0.0
27	Rushing Dr	4664200	2006005590	49,792	12.57	1.94	0.39	4.8	-	8.22	1.68	0.44	4.8	-	0.1	0.0
28a	22326 Lull St E/o Nita Av	3363400	2011003436	49,792	19.66	2.36	0.40	4.0	-	14.13	2.15	0.44	4.0	-	1.7	0.2
28b	7653 Nita Av N/o Lull St	3363400	2011003436	49,792	16.94	2.17	0.44	4.0	-	14.13	2.15	0.44	4.0	-	1.0	0.2
32	9240 Jordan Av	2837600	2010007420	1,053,845	14.69	4.10	0.21	4.0	8.0	9.05	3.38	0.25	4.5	8.0	3.6	0.5
35	Erwin St & Reseda Bl	1831900	2008000575	161,337	48.52	4.10	0.24	5.9	-	25.59	3.37	0.37	5.5	-	6.1	3.0
36	319 S Westlake Av	2006609082	2005009092	468,898	31.57	4.47	0.16	6.5	5.0	15.82	3.99	0.23	6.0	6.0	6.0	2.7
37	3924 & 3930 Davana Rd & Murietta Av	3833400	2005000697	49,792	65.19	3.50	0.14	7.6	-	40.05	3.17	0.21	6.5	-	5.5	4.1
38	5060 Cavanagh Rd & Marianna Av	1022000	2009001138	49,792	21.02	2.69	0.24	8.3	-	11.32	2.10	0.38	8.3	-	1.6	0.0
39	3636 Jasmine Av & Tabor St	2805300	2008008257	54,672	27.77	2.56	0.26	5.5	-	34.84	3.11	0.23	6.6	-	2.5	3.7

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Trench No.	Trench Location	Sec. ID	Ref. No.	Cum. ESALS	Patched (Surrounding Trench Area)					Non-Patched (Control Area)					Overlay Thickness***	
					Average Normalized Deflection D ₀ (mils)	Structural No. for future traffic	Structural Coefficient Existing Pavement	Existing Thickness (in.)		Average Normalized Deflection D ₀ (mils)	Structural No. for future traffic	Structural Coefficient Existing Pavement	Existing Thickness (in.)		Patched (in.)	Non-Patched (in.)
								AC	Base				AC	Base		
19	10124 Balboa Bl N/o Mayall St	0398300	2004007724	1,647,554	6.58	4.94	0.29	14.9	-	5.02	4.65	0.36	14.2	-	1.4	0.0
20	21505 Saticoy St & Alabama Av	4842600	2004004464	3,589,327	5.75	1.56	0.44	8.5	7.0	4.10	0.95	0.44	9.0	7.5	0.0	0.0
23	6041 Cadillac Av & La Cienega Bl	0848200	2004006571	597,150	18.53	6.46	0.19	7.5	11.5	4.24	4.06	0.35	7.3	11.1	6.6	0.0
27	Venice Bl & Western Av	5581500	2006004020	1,370,377	6.29	4.57	0.31	11.1	-	5.30	4.48	0.33	12.0	-	2.6	1.1
29	6750 Hazeltine Av & Archwood St	2534500	2009002991	1,930,653	13.79	5.53	0.27	8.0	6.0	6.05	2.81	0.36	7.9	6.1	4.1	0.0
30	17032 Burbank Bl & Balboa Bl	0807100	2003007664	1,880,694	4.21	4.41	0.36	15.5	-	4.47	5.06	0.36	15.3	-	0.0	0.0
32	17315 Sunset Bl & Los Liones Dr	5201900	2006003587	621,010	7.94	5.21	0.35	15.8	-	3.22	3.96	0.44	15.6	-	0.0	0.0
35	7305 Hazeltine Av & Valerio St	2534100	2006003439	707,909	17.00	6.35	0.36	9.8	-	8.33	5.11	0.44	9.3	-	6.5	2.0
36	6912 Coldwater Canyon & Basset St	1250200	2003008938	1,068,200	12.21	5.55	0.30	8.5	-	8.14	5.72	0.44	9.2	-	6.8	3.6
37	12126 Victory Bl & Laurel Canyon Bl	5705800	2004008989	1,659,106	12.87	6.48	0.31	13.0	-	10.81	6.47	0.35	13.8	-	5.5	3.7

*Note: Design Period = 10 Years

STANDARDS DIVISION

Los Angeles Street Damage Restoration Fee

Overlay Design for Patched and Non-patched Pavements

SELECT TRENCHES

Trench No.	Trench Location	Sec. ID	Ref. No.	Cum. ESALS	Patched (Surrounding Trench Area)					Non-Patched (Control Area)					Overlay Thickness***	
					Average Normalized Deflection D ₀ (mils)	Structural No. for future traffic	Structural Coefficient Existing Pavement	Existing Thickness (in.)		Average Normalized Deflection D ₀ (mils)	Structural No. for future traffic	Structural Coefficient Existing Pavement	Existing Thickness (in.)		Patched (in.)	Non-Patched (in.)
								AC	Base				AC	Base		
59	8850 Tampa Av & Londelius St	5258900	2009003258	3,712,458	10.30	5.69	0.34	8.4	-	11.22	7.68	0.41	9.0	-	6.4	9.4
60	7352 Foothill Bl & Mountair Av	2027900	2006009745	2,298,576	10.23	6.32	0.27	13.0	-	4.32	5.39	0.44	12.5	-	6.4	0.0
62	Foothill & Roxford	4637800	2005007446	870,844	15.91	5.68	0.25	9.4	4.5	4.02	3.69	0.39	9.9	3.9	5.1	0.0
65	6910 Woodley Av & Bassett St	6101300	2008010342	2,589,132	12.97	6.93	0.23	10.8	3.2	5.68	5.54	0.34	10.4	3.4	8.4	1.8
66	6611 Louise Av & Kittridge St	3331700	2009009986	532,493	2.97	2.47	0.38	15.1	-	4.17	3.31	0.35	15.6	-	0.0	0.0
67	20839 Roscoe Bl & De Soto Av	4602100	2010000199	4,078,751	17.48	7.84	0.23	11.9	-	9.41	7.46	0.37	10.5	-	11.5	8.1
68	Roscoe Bl & De Soto Av	4602100	2009006412	4,078,751	14.69	8.50	0.27	9.5	-	9.41	7.46	0.37	10.5	-	13.5	8.1
70	2034 Century Park West S/o MGM Dr	1071800	2010008406	2,363,039	4.31	4.84	0.44	10.5	-	3.37	3.93	0.44	9.8	-	0.2	0.0
72	Reseda Bl & Kingsbury St	4487500	2009001072	2,296,481	7.30	6.14	0.35	13.5	-	5.59	5.98	0.39	13.8	-	3.3	1.4
73	1408 W Washington Bl & New England St	5817900	2012001150	2,995,434	5.53	5.49	0.37	11.8	-	4.07	5.25	0.42	12.5	-	2.4	0.0

***As per 1993 AASHTO Guide for Design of Pavement Structures

*Note: Design Period = 10 Years

Overlay Design for Patched and Non-patched Pavements

atched (Surrounding Trench Area)

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Total Asphalt Concrete Thickness Design

DEPARTMENT OF GENERAL SERVICES																
STANDARDS DIVISION																
Los Angeles Street Damage Restoration Fee																
Total AC Thickness Structure Design																
LOCAL TRENCHES																
Trench No.	Trench Location	Sec. ID	Ref. No.	Cum. ESALS	Patched (Surrounding Trench Area)					Non-Patched (Control Area)					Total Thickness***	
					Average Normalized Deflection D ₀ (mils)	Structural No. for future traffic	Structural Coefficient Existing Pavement	Existing Thickness (in.)		Average Normalized Deflection D ₀ (mils)	Structural No. for future traffic	Structural Coefficient Existing Pavement	Existing Thickness (in.)		Patched (in.)	Non-Patched (in.)
								AC	Base				AC	Base		
1	17541 Sherman Wy	0864300	2009004910	110,489	11.79	2.27	0.27	8.9	-	14.61	2.7	0.27	8.6	-	5.2	6.1
2	1232 Saginaw St	6067000	2011002265	110,489	4.69	1.45	0.42	7.0	-	7.66	1.84	0.33	7.0	-	3.3	4.2
3	1581 N Crescent Heights Bl	1413700	2013008181	287,161	24.98	3.4	0.34	3.8		6.56	2.1	0.44	3.0	-	7.7	4.8
4	4389 San Blas Av	2732900	2013002248	110,489	16.08	2.71	0.33	8.4	-	8.43	2.04	0.43	7.8	-	6.2	4.6
5	23432 Community St	1318300	2012004406	110,489	18.53	2.31	0.30	6.0	-	16.62	2.58	0.33	6.0	-	5.3	5.9
6	17831 Tuscan Dr	5417200	2008006107	110,489	23.22	2.72	0.20	4.0	4.0	21.97	2.9	0.23	3.9	4.1	6.2	6.6
7	9359 & 9369 Hillrose St	2609620	2006006596	110,489	9.93	2.17	0.44	4.6	-	10.23	2.14	0.44	5.2	-	4.9	4.9
8	12950 Discovery Creek	1601220	2007004926	110,489	6.03	1.67	0.44	4.5	-	6.24	1.81	0.44	4.2	-	3.8	4.1
9	12981 Discovery Creek	1601220	2005010291	110,489	4.62	1.61	0.40	4.5	8.0	3.34	1.31	0.33	4.3	11.3	3.7	3.0
11	3690 Motor Av	4473300	2007001354	924,022	12.69	2.94	0.35	2.0	3.0	11.10	3.15	0.29	2.8	4.0	6.7	7.2
***As per 1993 AASHTO Guide for Design of Pavement Structures																
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Total AC Thickness Structure Design

Trench No.	Trench Location	Sec. ID	Ref. No.	Cum. ESALS	Patched (Surrounding Trench Area)					Non-Patched (Control Area)					Total Thickness***	
					Average Normalized Deflection D ₀ (mils)	Structural No. for future traffic	Structural Coefficient Existing Pavement	Existing Thickness (in.)		Average Normalized Deflection D ₀ (mils)	Structural No. for future traffic	Structural Coefficient Existing Pavement	Existing Thickness (in.)		Patched (in.)	Non-Patched (in.)
								AC	Base				AC	Base		
25	3628 & 3634 Kinney St	2948700	2006009217	110,489	5.22	1.81	0.44	6.5	-	3.96	0.42	0.44	6.5	-	4.1	1.0
27	Rushing Dr	4664200	2006005590	110,489	12.57	2.22	0.39	4.8	-	8.22	1.92	0.44	4.8	-	5.0	4.4
28a	22326 Lull St E/o Nita Av	3363400	2011003436	110,489	19.66	2.7	0.40	4.0	-	14.13	2.45	0.44	4.0	-	6.1	5.6
28b	7653 Nita Av N/o Lull St	3363400	2011003436	110,489	16.94	2.47	0.44	4.0	-	14.13	2.45	0.44	4.0	-	5.6	5.6
32	9240 Jordan Av	2837600	2010007420	2,338,476	14.69	4.7	0.21	4.0	8.0	9.05	3.93	0.25	4.5	8.0	10.7	8.9
35	Erwin St & Reseda Bl	1831900	2008000575	358,006	48.52	4.63	0.24	5.9	-	25.59	3.83	0.37	5.5	-	10.5	8.7
36	319 S Westlake Av	2006609082	2005009092	1,040,483	31.57	5.09	0.16	6.5	5.0	15.82	4.59	0.23	6.0	6.0	11.6	10.4
37	3924 & 3930 Davana Rd & Murietta Av	3833400	2005000697	110,489	65.19	3.98	0.14	7.6	-	40.05	3.61	0.21	6.5	-	9.0	8.2
38	5060 Cavanagh Rd & Marianna Av	1022000	2009001138	110,489	21.02	3.08	0.24	8.3	-	11.32	2.4	0.38	8.3	-	7.0	5.5
39	3636 Jasmine Av & Tabor St	2805300	2008008257	121,317	27.77	2.93	0.26	5.5	-	34.84	3.55	0.23	6.6	-	6.7	8.1

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Total AC Thickness Structure Design

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STANDARDS DIVISION
 Los Angeles Street Damage Restoration Fee
 Total AC Thickness Structure Design

Trench No.	Trench Location	Sec. ID	Ref. No.	Cum. ESALS	Patched (Surrounding Trench Area)					Non-Patched (Control Area)					Total Thickness***	
					Average Normalized Deflection D_0 (mils)	Structural No. for future traffic	Structural Coefficient Existing Pavement	Existing Thickness (in.)		Average Normalized Deflection D_0 (mils)	Structural No. for future traffic	Structural Coefficient Existing Pavement	Existing Thickness (in.)		Patched (in.)	Non-Patched (in.)
								AC	Base				AC	Base		
38	13457 Vanowen St & Sunnyslope	5542200	2005007066	7,165,802	22.76	8.76	0.26	7.2	4.3	11.69	7.87	0.37	7.0	5.0	19.9	17.9
40	3722 Dixie Canyon Av & Inwood Dr	1604800	2008008063	110,489	23.96	3.84	0.28	7.8	-	14.38	3.57	0.41	7.0	-	8.7	8.1
41	Sheldon St (NS) & Remick Av	4943300	2006011618	18,675,984	10.64	7.88	0.41	8.4	-	10.74	8.45	0.44	8.8	-	17.9	19.2
43	14960 Foothill Bl (NS) & Roxford St	2035600	2006006551	1,556,686	15.87	6.35	0.23	10.0	7.1	11.09	5.52	0.25	9.5	11.1	14.4	12.5
44	10185 Tujunga Canyon Bl & Hillhaven Av	5400400	2004001061	959,597	3.86	2.66	0.42	10.5	-	2.39	2.47	0.44	11.0	-	6.0	5.6
46	6203 Variel Av N/o Erwin St	5563200	2006009231	1,873,919	10.85	5.08	0.31	7.2	4.3	11.95	5.74	0.31	7.2	6.3	11.5	13.0
47	Hatteras St & Winnetka Av	6061900	2003008920	5,299,712	9.02	8.01	0.44	12.9	-	8.55	7.44	0.39	11.8	-	18.2	16.9
49	Plummer St & Lurline Av	4341700	2006006808	4,712,993	4.74	5.82	0.44	9.8	2.2	2.65	4.55	0.44	10.2	4.1	13.2	10.3
56	11121 Sepulveda Bl & San Fernando Mission	4899100	2004000758	2,361,657	5.13	4.68	0.32	8.0	7.5	8.99	6.64	0.32	10.0	5.0	10.6	15.1
58	Topham St & Aetna St	5351000	2009009586	3,549,969	13.85	7.19	0.44	6.8	-	20.17	8.46	0.40	5.7	-	16.3	19.2

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					Average Normalized Deflection D ₀ (mils)	Structural No. for future traffic	Structural Coefficient Existing Pavement	Existing Thickness (in.)		Average Normalized Deflection D ₀ (mils)	Structural No. for future traffic	Structural Coefficient Existing Pavement	Existing Thickness (in.)		Patched (in.)	Non-Patched (in.)
								AC	Base				AC	Base		
59	8850 Tampa Av & Londerius St	5258900	2009003258	8,237,923	10.30	6.41	0.34	8.4	-	11.22	8.69	0.41	9.0	-	14.6	19.8
60	7352 Foothill Bl & Mountair Av	2027900	2006009745	5,100,528	10.23	7.06	0.27	13.0	-	4.32	6.10	0.44	12.5	-	16.0	13.9
62	Foothill & Roxford	4637800	2005007446	1,932,398	15.91	6.34	0.25	9.4	4.5	4.02	4.26	0.39	9.9	3.9	14.4	9.7
65	6910 Woodley Av & Bassett St	6101300	2008010342	5,745,269	12.97	7.70	0.23	10.8	3.2	5.68	6.26	0.34	10.4	3.4	17.5	14.2
66	6611 Louise Av & Kittridge St	3331700	2009009986	1,181,599	2.97	2.96	0.38	15.1	-	4.17	4.04	0.35	15.6	-	6.7	9.2
67	20839 Roscoe Bl & De Soto Av	4602100	2010000199	9,050,726	17.48	8.67	0.23	11.9	-	9.41	8.26	0.37	10.5	-	19.7	18.8
68	Roscoe Bl & De Soto Av	4602100	2009006412	9,050,726	14.69	9.38	0.27	9.5	-	9.41	8.26	0.37	10.5	-	21.3	18.8
70	2034 Century Park West S/o MGM Dr	1071800	2010008406	5,243,570	4.31	5.56	0.44	10.5	-	3.37	4.69	0.44	9.8	-	12.6	10.7
72	Reseda Bl & Kingsbury St	4487500	2009001072	5,095,879	7.30	6.87	0.35	13.5	-	5.59	6.71	0.39	13.8	-	15.6	15.3
73	1408 W Washington Bl & New England St	5817900	2012001150	6,646,851	5.53	6.21	0.37	11.8	-	4.07	5.96	0.42	12.5	-	14.1	13.5

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