



LEE'S SUMMIT MISSOURI

UDO PARKING LOT PAVEMENT DESIGN PARAMETERS

DATE: March 3, 2016

TO: File

FROM:  George M. Binger III, P.E. | Deputy Director of Public Works/City Engineer

Pavement Type	Reliability	Z_R	S_0	P_0	p_t	M_r (subgrade)	k_{mod}
AC Parking	85%	-1.037	0.45	4.2	2.0	3,000	n/a
AC Fire Lane	85%	-1.037	0.45	4.2	2.0	3,000	n/a
PCC	85%	-1.037	0.35	4.2	2.0	3,000	125

Material	Minimum Thickness	a	m	S_c Modulus of Rupture	J Load transfer	C_d Drainage	M_r (subgrade)	E_c
Asphalt Surface*	1.5"	0.42	n/a	-	-	-	-	-
Asphalt Base*	4"	0.36	n/a	-	-	-	-	-
Aggregate Base	6" with AC 4" with PCC	0.13	1.0	-	-	-	-	-
Stabilized Subgrade	6"	0.08	0.7	-	-	-	-	-
PCC	6"	-	-	550 psi	2.7	1.15	3,000	4,200,000 psi

*Note: Minimum asphalt thicknesses assume an asphalt base course is used. If alternate pavement design opts to increase aggregate base thicknesses to eliminate asphalt base course, minimum total thickness for all asphalt shall be 3.0 inches of surface asphalt.

