

REVISED Table 1. Residential Pavement Design Options										
Average Daily Traffic	Typical Application	Pavement Component	Standard				Soil-Stabilized			
			FD Asphalt	Concrete, 4,000 psi	Composite	Flexible	FD Asphalt	Concrete, 4,000 psi	Composite	Flexible
0 - 500	Typically mini-greens streets and cul-de-sac streets with no future extensions possible	AC Surface*	1.25"		1.25"	1.25"	1.25"		1.25"	1.25"
		AC Intermediate**	1.50"		1.50"	1.50"	1.50"		1.50"	1.50"
		Item 301	5.25"			3.25"	3.25"			3.00"
		Item 304				6.00"				6.00"
		Item 306			5.00"				5.00"	
		Item 452		6.00"				5.00"		
		Constructed Thickness	8.00"	6.00"	7.75"	12.00"	6.00"	5.00"	7.75"	11.75"
501 - 1,500	Typically short one to two-block long loop streets with no future extensions possible	AC Surface*	1.25"		1.25"	1.25"	1.25"		1.25"	1.25"
		AC Intermediate**	1.50"		1.50"	1.50"	1.50"		1.50"	1.50"
		Item 301	5.75"			3.75"	3.75"			3.00"
		Item 304				6.00"				6.00"
		Item 306			5.50"				5.25"	
		Item 452		6.00"				6.00"		
		Constructed Thickness	8.50"	6.00"	8.25"	12.50"	6.50"	6.00"	8.00"	11.75"
1,501 - 3,500	Typically through streets serving one or more neighborhoods or abutting properties, but no non-residential uses	AC Surface*	1.25"		1.25"	1.25"	1.25"		1.25"	1.25"
		AC Intermediate**	1.50"		1.50"	1.50"	1.50"		1.50"	1.50"
		Item 301	7.25"			5.25"	4.75"			3.75"
		Item 304				6.00"				6.00"
		Item 305			7.00"				6.50"	
		Item 452		7.50"				7.00"		
		Constructed Thickness	10.00"	7.50"	9.75"	14.00"	7.50"	7.00"	9.25"	12.50"
> 3500	Use ODOT Design Method for Ultimate Design ADT									

FD Asphalt = Full depth asphalt on prepared subgrade

Concrete = 4,000 psi strength PCC concrete on prepared subgrade

Composite = 3,000 psi strength PCC (Item 306) concrete base with two-layer asphalt surface, or
= 3,500 psi strength RCC (SS 1523) concrete base with two-layer asphalt surface, or
= 4,000 psi strength PCC (Item 305) concrete base with two-layer asphalt surface

Flexible = Asphalt on compacted aggregate

Item numbers refer to Columbus Construction and Material Specifications section:

-Item 305 with Class C Concrete: Min 28-day compressive strength of 4,000 psi

-Item 306 with Class F Concrete: Min 28-day compressive strength of 3,000 psi

-Item 452 with Class C Concrete: Min 28-day compressive strength of 4,000 psi

* AC Surface = Item 448 Asphalt Concrete, Surface Course (Medium Traffic), PG64-22

** AC Intermediate = Item 448 Asphalt Concrete, Intermediate Course (Medium Traffic), PG64-22