

13
11-16-19

Table 5.1
Patrick Henry School Site Trip Generation Summary¹

Land Use	ITE Code	Setting/Location	Size	Units	AM Peak Hour			Midday Peak Hour			PM Peak Hour			Weekday ADT
					IN	OUT	TOTAL	IN	OUT	TOTAL	IN	OUT	TOTAL	
Existing Patrick Henry														
Elementary School	520	General Urban/Suburban	620	Students	224	191	415	218	185	403	50	55	105	1,137
Middle/Junior High School	522	General Urban/Suburban	160	Students	50	43	93	25	30	55	13	14	27	502
Recreation Center	495	General Urban/Suburban	19,000	SF	50	25	75	51	59	110	32	37	69	548
		Existing Patrick Henry Vehicle Trips			324	259	583	294	274	568	95	106	201	2,187
Future Patrick Henry														
Elementary School	520	General Urban/Suburban	670	Students	242	207	449	235	201	436	55	59	114	1,243
Middle/Junior High School	522	General Urban/Suburban	180	Students	56	48	104	29	33	62	15	16	31	551
Recreation Center	495	General Urban/Suburban	19,000	SF	50	25	75	51	59	110	32	37	69	548
		Future Patrick Henry Vehicle Trips			348	280	628	315	293	608	102	112	214	2,342
Net New Patrick Henry Trips					24	21	45	21	19	40	7	6	13	155

Notes:
1. Trips generated using Institute of Transportation Engineers (ITE) Trip Generation, 10th Edition.

Douglas MacArthur School Site Trip Generation Summary

Land Use	ITE Code	Setting/Location	Size	Units	AM Peak Hour			Midday Peak Hour			PM Peak Hour			Weekday ADT
					IN	OUT	TOTAL	IN	OUT	TOTAL	IN	OUT	TOTAL	
Existing Douglas MacArthur														
Existing Vehicle Trips ¹	520	General Urban/Suburban	700	Students	253	216	469	246	209	455	57	62	119	1,307
	45	Students per Bus			6	6	12	6	6	12	-	-	-	24
		Existing Douglas MacArthur Vehicle Trips			259	222	481	252	215	467	57	62	119	1,331
Future Douglas MacArthur														
Future Vehicle Trips ^{1,2}	520	General Urban/Suburban	700	Students	183	156	339	178	151	329	41	45	86	944
	45	Students per Bus			12	12	24	12	12	24	-	-	-	48
		Future Douglas MacArthur Vehicle Trips			195	168	363	190	163	353	41	45	86	992
Decrease in Trips per Increased Bus Supply					-64	-54	-118	-62	-52	-114	-16	-17	-33	-339

Notes:
1. Trips generated using Institute of Transportation Engineers (ITE) Trip Generation, 10th Edition.
2. Assumes conversion of 10% of existing student trips from vehicle trips to non-auto bus trips.
3. Assumes increase of 6 buses (100% increase).

Combined Trip Generation Totals

Land Use	ITE Code	Setting/Location	Size	Units	AM Peak Hour			Midday Peak Hour			PM Peak Hour			Weekday ADT
					IN	OUT	TOTAL	IN	OUT	TOTAL	IN	OUT	TOTAL	
Douglas MacArthur Swing Space Project and Patrick Henry School														
				Net New Patrick Henry Trips	24	21	45	21	19	40	7	6	13	155
				Future Douglas MacArthur Vehicle Trips	195	168	363	190	163	353	41	45	86	992
				Net New Vehicle Trips with Project	219	189	408	211	182	393	48	51	99	1,147

