

Mode Split Assumptions

Residential Component

Description of residential component of project:

approximately 50 residential units (with a total of 185 beds)

Pertinent Mode Split data from other sources:

Information Source	Mode						
	SOV	Carpool	Transit	Bike	Walk	Telecommute	Other
Genus Data - Census Tract (99.04)	37%	12%	46%	0%	3%	1%	1%
CTPP - TAZ Residents (20371)	31%	13%	51%	0%	0%	5%	0%
State of the Commute (of District residents)	41%	7%	41%	11%		---	

Mode Split assumed in TIS:

Land Use	Mode				
	Drive	Transit	Bike	Walk	Telecommute/Other
Residential Mode Split	0%	90%	0%	10%	---

Notes: -Census data and WMATA Ridership Survey used as basis for assumptions
 -No-on site parking will be provided
 -Low-car ownership rates assumed

STFH Staff Component

Description of office component of project:

There will always be approximately 12 staff on site, with 25-27 staff being present at peak staffing times.

Pertinent Mode Split data from other sources:

Information Source	Mode						
	SOV	Carpool	Transit	Bike	Walk	Telecommute	Other
State of the Commute (of employees that work in the District)	42%	11%	43%	4%		---	
CTPP - TAZ Employees (20371)	60%	7%	17%	1%	6%	0%	9%
Existing Mode Split (based on information provided by Applicant)	60%		40%	0%	0%	0%	0%

Mode Split assumed in TIS:

Land Use	Mode				
	Drive	Transit	Bike	Walk	Telecommute/Other
STFH Staff Mode Split	50%	42%	5%	3%	---

Notes: -Information provided on existing facility at DC General by DGS used as basis for assumptions

Medical Clinic Component

Description of Clinic component of project:

Approximately 7,860 square feet

Pertinent Mode Split data from other sources:

Information Source	Mode						
	SOV	Carpool	Transit	Bike	Walk	Telecommute	Other
State of the Commute (of employees that work in the District)	42%	11%	43%	4%		---	
CTPP - TAZ Employees (20371)	60%	7%	17%	1%	6%	0%	9%

Mode Split assumed in TIS:

Land Use	Mode				
	Drive	Transit	Bike	Walk	Telecommute/Other
Clinic Mode Split	30%	20%	5%	45%	---

Notes: -The clinic is intended to serve the neighborhood, and as such it is expected that the majority of patients will walk

Table 1 - Residential Trip Generation

Step 1: Base trip generation using ITEs' *Trip Generation*

Land Use	Land Use Code	Quantity (x)	AM Peak Hour			PM Peak Hour		
			In	Out	Total	In	Out	Total
Residents	220	50 du	6 veh/hr	22 veh/hr	28 veh/hr	29 veh/hr	16 veh/hr	45 veh/hr
<i>Calculation Details:</i>			20%	80%	=0.49(x)+3.73	65%	35%	=0.55(x)+17.65

Step 2: Convert to people per hour, before applying mode splits

Land Use	People/Car (from 2009 NHTS, Table 16)	AM Peak Hour			PM Peak Hour		
		In	Out	Total	In	Out	Total
Residents	1.13 ppl/veh	7 ppl/hr	25 ppl/hr	32 ppl/hr	33 ppl/hr	18 ppl/hr	51 ppl/hr

Step 3: Split between modes, per assumed Mode Splits

Land Use	Mode	Split	AM Peak Hour			PM Peak Hour		
			In	Out	Total	In	Out	Total
Residents	Auto	0%	0 ppl/hr	0 ppl/hr	0 ppl/hr	0 ppl/hr	0 ppl/hr	0 ppl/hr
Residents	Transit	90%	6 ppl/hr	23 ppl/hr	29 ppl/hr	30 ppl/hr	16 ppl/hr	46 ppl/hr
Residents	Bike	0%	0 ppl/hr	0 ppl/hr	0 ppl/hr	0 ppl/hr	0 ppl/hr	0 ppl/hr
Residents	Walk	10%	1 ppl/hr	2 ppl/hr	3 ppl/hr	3 ppl/hr	2 ppl/hr	5 ppl/hr

Step 4: Convert auto trips back to vehicles/hour

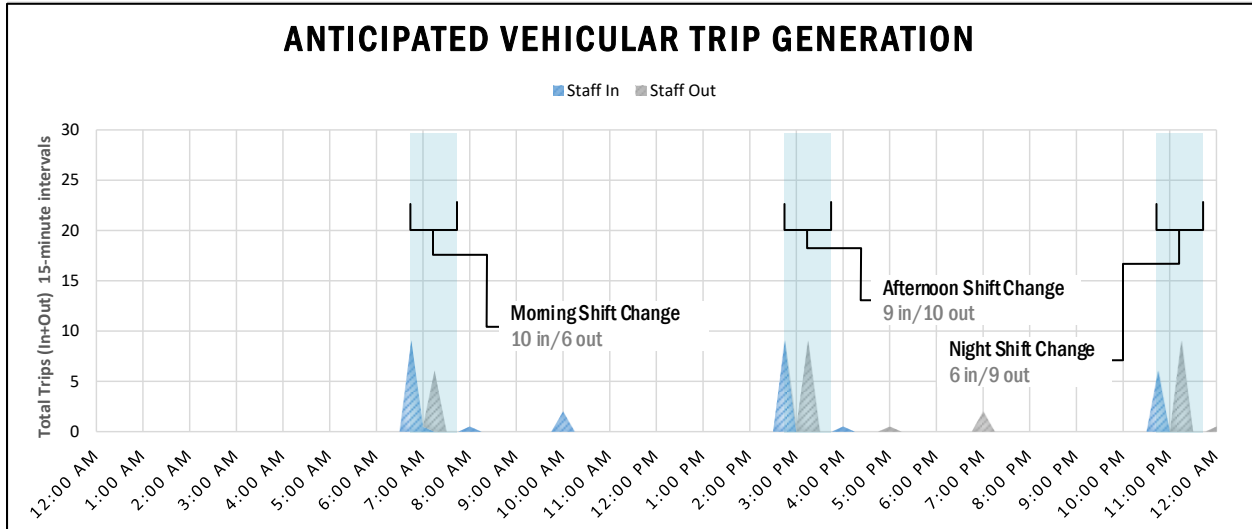
Land Use	People/Car (from 2009 NHTS, Table 16)	AM Peak Hour			PM Peak Hour		
		In	Out	Total	In	Out	Total
Residents	1.13 ppl/veh	0 veh/hr	0 veh/hr	0 veh/hr	0 veh/hr	0 veh/hr	0 veh/hr

Trip Gen Summary for Residential

Mode	AM Peak Hour			PM Peak Hour		
	In	Out	Total	In	Out	Total
Auto	0 veh/hr	0 veh/hr	0 veh/hr	0 veh/hr	0 veh/hr	0 veh/hr
Transit	6 ppl/hr	23 ppl/hr	29 ppl/hr	30 ppl/hr	16 ppl/hr	46 ppl/hr
Bike	0 ppl/hr	0 ppl/hr	0 ppl/hr	0 ppl/hr	0 ppl/hr	0 ppl/hr
Walk	1 ppl/hr	2 ppl/hr	3 ppl/hr	3 ppl/hr	2 ppl/hr	5 ppl/hr

Ward 6 Short Term Family Housing – Anticipated Vehicular Trip Generation and Parking Demand (STFH Staff)

Based on Gorove/Slade analysis of information provided by District Department of General Services staff



Land Use	Mode	Morning Shift Change (6:45-7:45AM)			Afternoon Shift Change (2:45-3:45PM)			Night Shift Change (10:45-11:45PM)		
		In	Out	Total	In	Out	Total	In	Out	Total
STFH Staff	Auto	10 veh/hr	6 veh/hr	17 veh/hr	9 veh/hr	10 veh/hr	19 veh/hr	6 veh/hr	9 veh/hr	15 veh/hr
Total	Auto	10 veh/hr	6 veh/hr	17 veh/hr	9 veh/hr	10 veh/hr	19 veh/hr	6 veh/hr	9 veh/hr	15 veh/hr

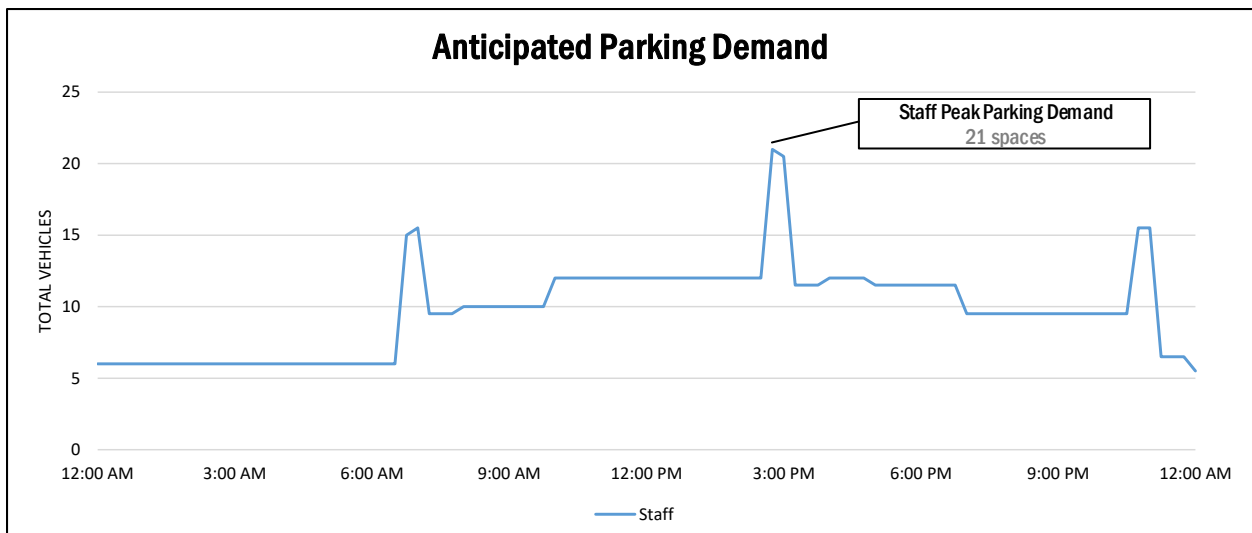


Table 3 - Medical Clinic Trip Generation

Note: A 7,860 sf Medical Clinic

Step 1: Base trip generation using ITEs' Trip Generation

Land Use	Land Use Code	Quantity (x)	AM Peak Hour			PM Peak Hour		
			In	Out	Total	In	Out	Total
Medical Office	720	7,860 sf	15 veh/hr	4 veh/hr	19 veh/hr	8 veh/hr	22 veh/hr	30 veh/hr
Calculation Details:			79%	21%	=2.39(x/1000)	28%	72%	=0.90(x/1000)+1.53

Step 2: Convert to people per hour, before applying mode splits

Land Use	People/Car (from 2009 NHTS, Table 16)	AM Peak Hour			PM Peak Hour		
		In	Out	Total	In	Out	Total
Medical Office	1.13 ppl/veh	17 ppl/hr	4 ppl/hr	21 ppl/hr	9 ppl/hr	25 ppl/hr	34 ppl/hr

Step 3: Split between modes, per assumed Mode Splits

Land Use	Mode	Split	AM Peak Hour			PM Peak Hour		
			In	Out	Total	In	Out	Total
Medical Office	Auto	30%	5 ppl/hr	1 ppl/hr	6 ppl/hr	3 ppl/hr	7 ppl/hr	10 ppl/hr
Medical Office	Transit	20%	3 ppl/hr	1 ppl/hr	4 ppl/hr	2 ppl/hr	5 ppl/hr	7 ppl/hr
Medical Office	Bike	5%	1 ppl/hr	0 ppl/hr	1 ppl/hr	0 ppl/hr	2 ppl/hr	2 ppl/hr
Medical Office	Walk	45%	8 ppl/hr	1 ppl/hr	9 ppl/hr	4 ppl/hr	11 ppl/hr	15 ppl/hr

Step 4: Convert auto trips back to vehicles/hour

Land Use	People/Car (from 2009 NHTS, Table 16)	AM Peak Hour			PM Peak Hour		
		In	Out	Total	In	Out	Total
Medical Office	1.13 ppl/veh	4 veh/hr	1 veh/hr	5 veh/hr	3 veh/hr	6 veh/hr	9 veh/hr

Trip Gen Summary for Retail

Mode	AM Peak Hour			PM Peak Hour		
	In	Out	Total	In	Out	Total
Auto	4 veh/hr	1 veh/hr	5 veh/hr	3 veh/hr	6 veh/hr	9 veh/hr
Transit	3 ppl/hr	1 ppl/hr	4 ppl/hr	2 ppl/hr	5 ppl/hr	7 ppl/hr
Bike	1 ppl/hr	0 ppl/hr	1 ppl/hr	0 ppl/hr	2 ppl/hr	2 ppl/hr
Walk	8 ppl/hr	1 ppl/hr	9 ppl/hr	4 ppl/hr	11 ppl/hr	15 ppl/hr