

October 20, 2017

Trip Generation report for 72,150 Square-Foot Warehouse. Location: Chamberlain Crossing Business Park Phase 4, 12413 and 12415 Old LaGrange Road

Information obtained from:

1. Trip Generation Manual Editions 8 & 9
2. Interviews with Norman Moore Facility Manager for Dakkota Integrated Systems, Louisville KY.
3. High-Cube Warehouse Vehicle Trip Generation Analysis, October 2016

High-cube warehouses are classified as Land Use Code 152 in ITE Trip Generation Manual, 8th & 9th Edition. The definition for this type of warehouse is: "High-cube warehouses/distribution centers are used for the storage of materials, goods and merchandise prior to their distribution. These facilities are typically characterized by ceiling heights of at least 24 feet with small employment counts due to a high level of mechanization.

The Chamberlain Crossing Business Park currently contains a similar building to that being proposed which has 50 employees. The facilities in the Park deliver "just-in time" products to the Ford Kentucky Truck Plant. "45 trucks come and go each day between the hours of 6:00 AM and 4:30 PM" between the two existing buildings. Deliveries to the facilities generally come down Chamberlain Lane from West port Road to avoid the train." (Norman Moore Warehouse Manager for Dakkota Integrated Systems)

Hours of Operation and Peak Periods for such facilities – Peak truck movement activity is often outside the peak commuting period on the adjacent street system.

Two methods were used to determine trip generation one based upon a recent study undertaken by the ITE in Washington DC and published in October, 2016, and the one based upon the Trip Generation Manual 9th edition.

The weighted average rates for the AM and PM peak hours per the High-Cube Warehouse Vehicle Trip Generation Analysis, October 2016 are:

- 0.082 **total vehicles** per 1,000 GSF during the AM peak hour
- 0.108 **total vehicles** per 1,000 GSF during the PM peak hour
- 0.024 **trucks** per 1,000 GSF during the AM peak hour
- 0.023 **trucks** per 1,000 GSF during the PM peak hour

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As points of comparison, these rates are lower than the AM and PM weighted average rates of 0.11 and 0.12, respectively, provided in ITE 8th Edition for the High-Cube Warehouse land use.

The weighted average rates for PM peak hours per ITE Trip Generation Manual 9th Edition for a 72,000 SF building are:

	Units	Calc	PM	%PM	%PM	Units	PM	PM	PM
		Rate	Peak	In	Out		Trips	In	Out
			Rate						
HC Warehouse 152	KSF2	1.44	0.12	33%	67%	72.2	9	3	6
HC Warehouse 152	Emp.	NA	0.66	35%	65%	55.0	36	13	24