



PLANNING  
ENGINEERING  
IMPLEMENTATION

Date: September 1, 2020

To: Cheryl Lambrecht, P.E.  
Sr. Traffic Engineer  
City of Olathe, Kansas

From: Daniel Finn, P.E.

Re: Traffic Memo  
Lots 27 & 28, Southpark Phase II  
PEI #200846

### Introduction

The purpose of this memo is to document the anticipated traffic generated by the development of Lots 27 & 28 of the Southpark Phase II development, located at the northwest corner of Frontier Lane and Fountain Drive in Olathe, KS. **Figure 1** depicts the site location.



**Figure 1: Site Location**

### Proposed Site Characteristics

The proposed development will consist of three warehouse buildings, totaling 385,500 square foot of building area. The site will be accessed by three drives located on Frontier Lane. **Figure 2** shows the proposed site plan.

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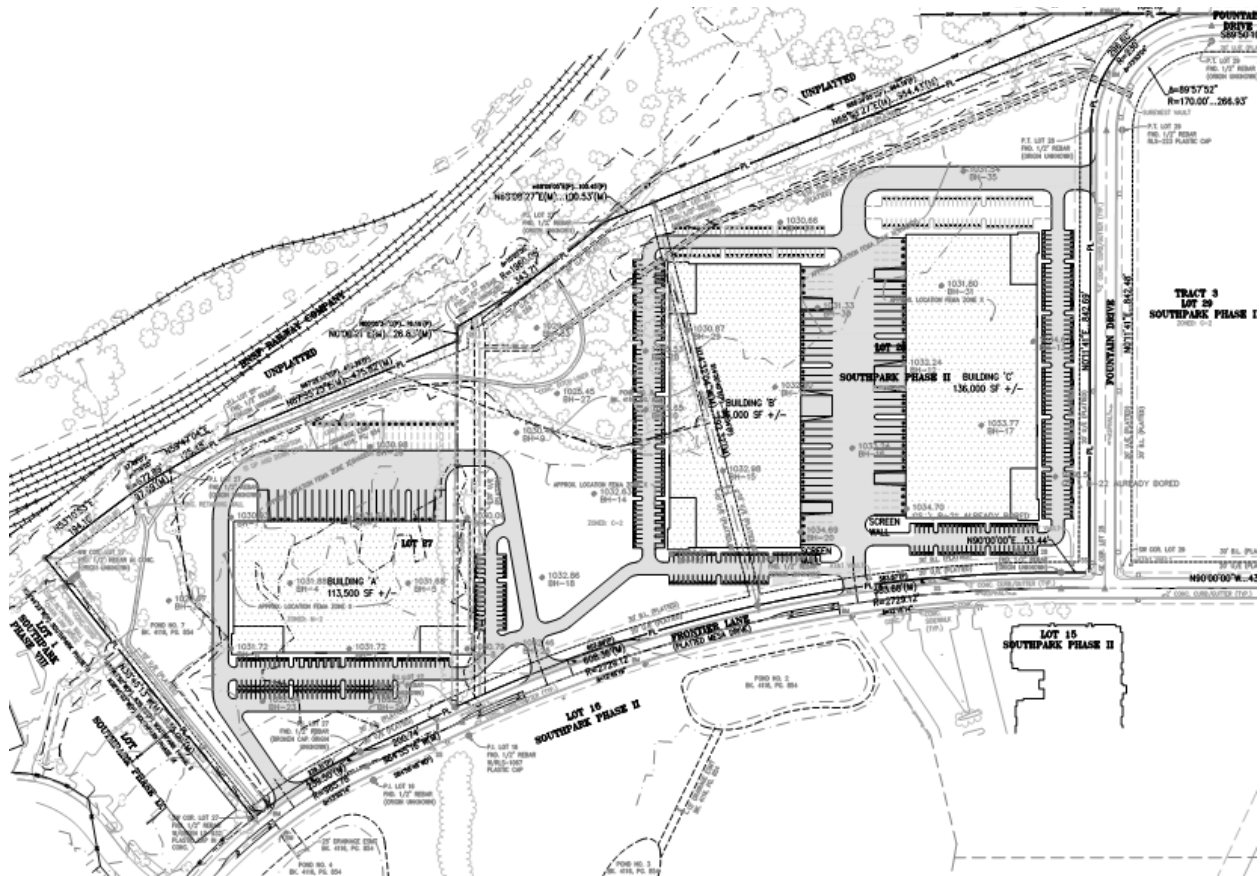


Figure 2: Proposed Final Development Plan for Lots 27 & 28, Southpark Phase II

### Trip Generation

The Institute of Transportation Engineers, *Trip Generation Manual*, 10<sup>th</sup> Edition, was used to determine the anticipated traffic generated by the proposed site for three scenarios, the AM peak hour, the PM peak hour, and the typical weekday. Table 1 shows the results of the analysis.

Table 1 – Trip Generation Summary						
Land Use	Size (SF)	Weekday	AM Peak Hour		PM Peak Hour	
			In	Out	In	Out
150 – Warehousing	385,500	655	50	16	20	53

### Conclusions

The proposed warehousing development will generate 66 trips in the AM peak hour, 73 in the PM Peak hour, and 655 trips during the typical weekday.

