

LSC TRANSPORTATION CONSULTANTS, INC. 545 East Pikes Peak Avenue, Suite 210 Colorado Springs, CO 80903 (719) 633-2868 FAX (719) 633-5430 E-mail: <u>lsc@lsctrans.com</u> Website: http://www.lsctrans.com

> ACCEPTED for FILE Engineering Review

02/06/2019 11:24:38 AM Elizabeth Nijkamp EPC Planning & Community Development Department

## Short Stop Hamburgers Transportation Memorandum (LSC #184880) September 27, 2018 PCD File No. PPR1847

#### **Traffic Engineer's Statement**

This traffic report and supporting information were prepared under my responsible charge and they comport with the standard of care. So far as is consistent with the standard of care, said report was prepared in general conformance with the criteria established by the County for traffic reports.



#### **Developer's Statement**

I, the Developer, have read and will comply with all commitments made on my behalf within this report.

7,11

7/27/18



LSC TRANSPORTATION CONSULTANTS, INC. 545 East Pikes Peak Avenue, Suite 210 Colorado Springs, CO 80903 (719) 633-2868 FAX (719) 633-5430 E-mail: <u>lsc@lsctrans.com</u> Website: http://www.lsctrans.com

September 27, 2018

John Nelson John P. Nelson Associates 1626 East Pikes Peak Avenue Colorado Springs, CO 80909

> RE: Short Stop Hamburgers El Paso County, Colorado Transportation Memorandum LSC #184880

Dear John:

In response to your request, LSC Transportation Consultants, Inc. has prepared this Transportation Memorandum for the proposed Short Stop Hamburgers fast food restaurant (without indoor seating) to be located within the existing shopping center located south of Palmer Park Boulevard and east of and Powers Boulevard in El Paso County, Colorado. Figure 1 shows the site location.

### SITE LAND USE AND ACCESS

Short Stop Hamburgers is a proposed 754-square-foot fast food restaurant with one drive-through window and no indoor seating. The proposed 754-square foot building is within an existing 5.5-acre parcel (El Paso County parcel number 5406304050). This parcel is only a part of the greater shopping center located east of Powers Boulevard between Palmer Park Boulevard to the north and Omaha Boulevard to the south. A copy of the site plan is attached. Several existing restaurants and commercial land uses are located within this existing shopping center.

The overall shopping center, of which this site is a part, currently has two primary full-movement access points and two additional service access points. The primary shopping center access to Palmer Park is a signalized intersection and the primary access to Omaha Boulevard is two-way, Stop sign controlled.

### **EXISTING ROADWAY AND TRAFFIC CONDITIONS**

#### Area Roadways

The roadways in the study area are shown on Figure 1 and are described below.

• **Powers Boulevard** (State Highway 21) is a six-lane median-divided expressway (classified as a "Freeway" by CDOT), with planned north/south continuity throughout the Colorado Springs

metropolitan area. The Powers Boulevard/Palmer Park Boulevard intersection is currently signalized; however, an interchange is planned in the future. The Omaha/Powers intersection has recently been converted to a right-in/right-out.

Page 2

- Palmer Park Boulevard extends from Union Boulevard east to Shawnee Drive. Palmer Park Boulevard is classified by El Paso County as a Principal Arterial between Powers Boulevard and Peterson Boulevard. In the site's vicinity, Palmer Park Boulevard has two through lanes in each direction plus a center two-way left-turn lane and a posted speed limit of 35 miles per hour (mph). The full-movement intersections along Palmer Park Boulevard in the site's vicinity are located at Powers Boulevard, the Wendy's/shopping center access, the shopping center rear/service access and Waynoka Road.
- **Omaha Boulevard** is a four-lane Urban Non-Residential Collector street that extends east from Powers Boulevard to just east of Peterson Road. The intersection of Powers/Omaha is Stop-sign controlled, and has recently been converted to a right-in/right-out intersection.

## **TRIP GENERATION**

An estimate of the vehicle-trips expected to be generated by the proposed Short Stop Hamburgers restaurant has been made using the nationally published trip generation rates found in *Trip Generation, 10th Edition, 2017* by the Institute of Transportation Engineers (ITE). Table 1 shows the trip generation estimate.

### Pass-by Trips

The estimated total number of vehicle-trips generated accounts for the "pass-by" phenomena. A passby trip is made by a motorist who would already be on the adjacent roadways regardless of the proposed development, but who stops in at the site while passing by. The motorist would then continue on his or her way to a final destination in the original direction. Primary and pass-by percentages are shown in Table 1. These are estimates by LSC based in part on data contained in the *Trip Generation Handbook - An ITE Proposed Recommended Practice, 3rd Edition, 2014* by ITE.

### **Projected Trip Generation**

The proposed Short Stop Hamburgers restaurant is projected to generate about 346 total vehicle-trips on the average weekday, with about half entering and half exiting the site during a 24-hour period. During the midday peak hour (approximately between 12:00 noon and 1:00 p.m.), about 26 vehicles would enter and 25 vehicles would exit the site. During the evening peak hour, which generally occurs for one hour between 4:00 and 6:00 p.m., about 16 vehicles would enter and 16 vehicles would exit the site. These trip estimates do not include any potential reduction due to internal trip capture within the shopping center. Therefore, these estimates are more conservative than they would be with an internal trip adjustment.

### TRIP DISTRIBUTION AND ASSIGNMENT

Figure 1 shows LSC's directional distribution estimates on the north and south ends of the primary access drive for the shopping center. Directional percentages are shown for both primary trips and pass-by trips. Estimates have been based on the following factors: the proposed land use, the site location, the adjacent street and roadway system, and the existing traffic volumes on adjacent major streets and roadways.

Site-generated traffic volumes at the north access point on Palmer Park Boulevard and the south access point on Omaha Boulevard have been calculated by applying the directional distribution percentages estimated by LSC (from Figure 1) to the trip generation estimates (from Table 1). Figure 2 shows the projected site-generated traffic volumes for the weekday midday and evening peak hours.

#### FINDINGS/CONCLUSIONS

- During the midday peak hour (approximately between 12:00 noon and 1:00 p.m.), about 26 vehicles would enter and 25 vehicles would exit the site.
- During the evening peak hour, which generally occurs for one hour between 4:00 and 6:00 p.m., about 16 vehicles would enter and 16 vehicles would exit the site.
- The proposed Short Stop Hamburgers would add an additional northbound approach volume of about 14 percent during the noon peak hour and 8 percent during the afternoon peak hour at the main shopping center access on Palmer Park Boulevard (Based on traffic counts conducted in October 2017). Note: These percentages are significantly higher than they would otherwise be if the existing shopping center tenant vacancy was not at such a high level.

\* \* \* \* \*

Please contact me if you have any questions regarding this report.

Respectfully submitted,

LSC TRANSPORTATION CONSULTANTS, INC.

By: Jeffrey C. Hodsdon, P.E., PTOE Principal

JCH/JAB:bjwb

Enclosures: Table 1 Figures 1-2 Site Plan

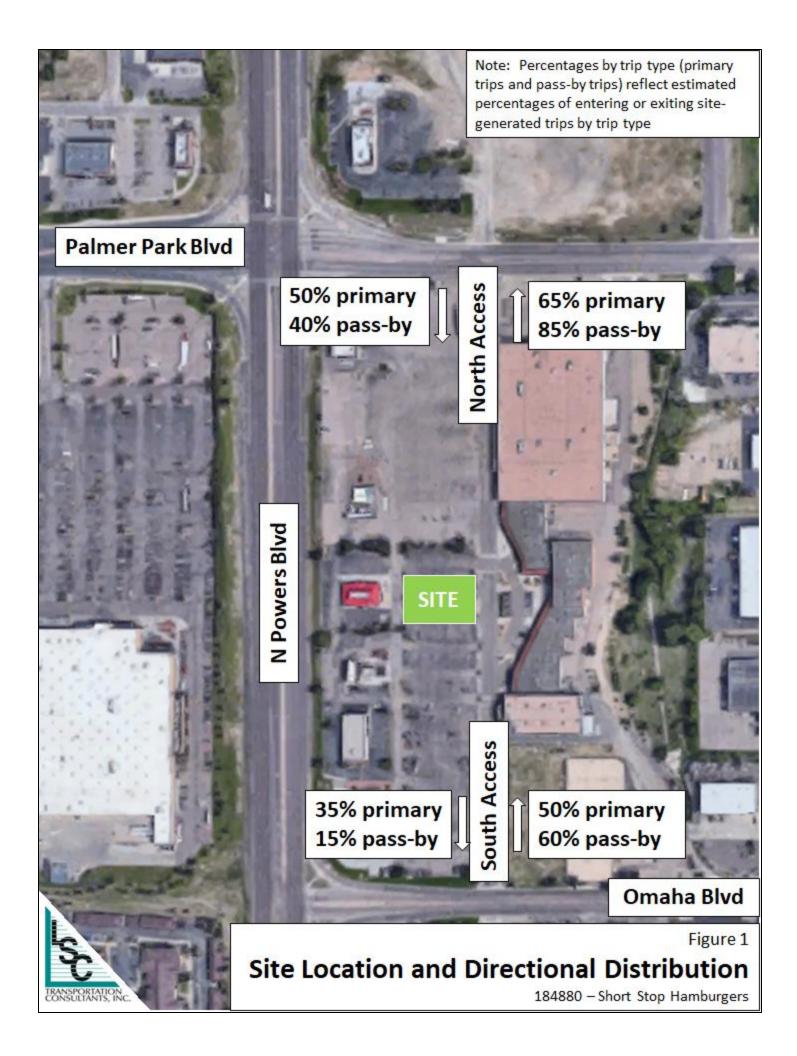
	Trip Generation Rates <sup>(1)</sup>							Total Trips Generated							
	ITE		Units	Wee	ekday	Mid-Day Peak Hour of Generator		Evening Peak Hour of Adjacent Street Traffic		nt W	Average Weekday Traffic	Mid-Day Peak Hour of Generator		Evening Peak Hour of Adjacent Street Traffic	
Code	Description			Traffic		In	Out	In	Ou	t '	ranic	In	Out	In	Out
935	Fast-Food Restaurant with Drive-Through Window and No Indoor Seating	0.754	KSF	45	9.20 3	34.39	33.05	21.7	5 20.9	0	346	26	25	16	16
		"New"/Primary Trips Generated													
	ITE	% Primar		% ss-by	Average Weekda	lay Generati		r of	Evening Peak Hour of Adjacent Street Traffic						
Code	Description				Traffic	I	n C	Dut	In	Out					
935	Fast-Food Restaurant with Drive-Through Window and No Indoor Seating	30%	7	′0%	104		5	5	5	5					

Table 1: Trip Generation Table

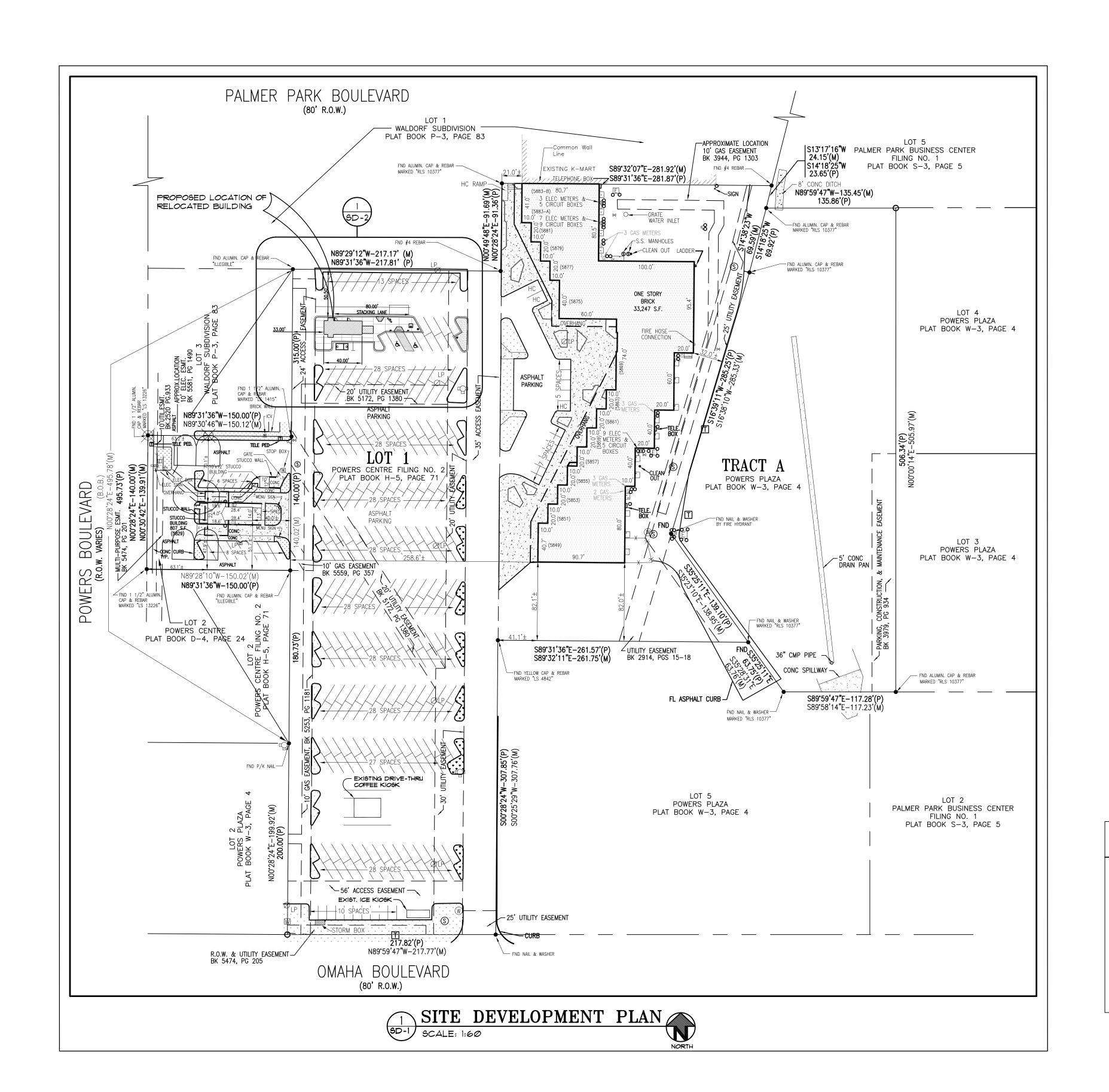
Note: Peak Hour of the Generator occurs from approximately 12:00 pm - 1:00 pm

(1) Source: Trip Generation, 10th Edition, 2017 by the Institute of Transportation Engineers (ITE)

(2) KSF = 1,000 square feet

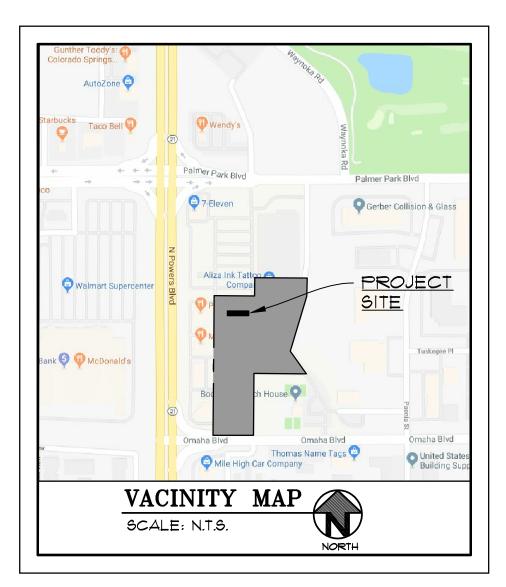






# 5819 PALMER PARK BLVD. COLORADO SPRINGS, COLORADO 80915

OWNER:



## LEGAL DESCRIPTION:

LOT I POWERS CENTRE FIL NO 3

## LOT SETBACKS:

Front - 50' from lot line Lot 1: Side - 25' from perimeter of PBC district boundary Rear - 25' from perimeter of PBC district boundary

PAI	RKING	SUMMARY:
USE	RATIO	PARKING REQ'D.
COMMERCIAL	1/25Ø	eri
TOTAL PARKING		314

## PROJECT DATA

EXISTING/PROPOSED BUILDING COREVET INVESTMENT GROUP LLC SIZE: P.O. BOX 38175 44,737 SF (NO CHANGE) COLORADO SPRINGS, CO. 80937-8175 EXISTING BUILDING USE: COMMERCIAL

PROPERTY ADDRESS: 5849-5553 PALMER PARK BLVD. COLORADO SPRINGS, CO

LOT SIZE (SF): 5.55 ACRES (241,758 SF)

# BUSINESS RELOCATION PLAN MINOR AMENDMENT VD. 8091 CO. PARK NGS, C Ο 19 RA COLOI ЧЧ ИЧ SHORT STO DEVELOPMEI PROJECT NO. DRN. BY: RM.B. REVISIONS:

- nelson associates

Q. Ę



PROPOSED LOT COVERAGE: NO CHANGE									
CPC	NV	XX-	XXXXX						

EXISTING LOT COVERAGE: 47%

PROPOSED BUILDING USE:

RETAIL (100%) NO CHANGE

