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July 12, 2018

Cody Humphrey
Director of Planning
La Plata Communities
1755 Telstar Drive, Suite 211
Colorado Springs, CO 80920

RE: The Campus at Foothills Farm
Colorado Springs, CO
Trip Generation Technical Memorandum
LSC #184690

Dear Cody:

In response to your request, LSC Transportation Consultants, Inc. has prepared this Trip Generation Technical Memorandum for the proposed amendment to The Farm Master Plan. The area of amendment is located northwest of the intersection of New Life Drive and Federal Drive in Colorado Springs, Colorado. This traffic technical memorandum is being prepared as part of the submittal to the City of Colorado Springs. It contains a trip generation estimate for the area proposed for amendment and a comparison to the trip generation estimate shown in the most recent traffic impact study completed for the same area and a comparison to a trip generation estimate based on existing land uses and future land uses shown on currently approved plans.

SITE LAND USE

Approved Land Uses

The Farm Master Plan is located north of New Life Drive between Interstate 25 and Voyager Parkway. The approved master plan has been attached. A traffic study for this area titled *Interquest North Classic Revision Colorado Springs, Colorado Traffic Impact Study* (TIS) was completed by Krager & Associates, Inc. in August 2005. Table 1 shows the land use assumed in the 2005 TIS for the areas south of the wetlands.

Since completion of that report, LSC completed a traffic technical memorandum for the portion of The Farm Master Plan located north of the wetlands area dated February 18, 2014. An extension of Federal Drive across the wetlands area shown in the 2005 TIS was not assumed in the 2014 memorandum and is no longer planned.

LSC has also recently prepared traffic technical memorandums for two residential parcels located north of New Life Drive between Federal Drive and Voyager Parkway identified as Parcel 1 on the approved Farm Master Plan. *The New Life & Voyager Apartments Continental 370 Fund LLC Traffic Technical Memorandum* dated May 12, 2016 assumed a 280-unit apartment development northeast of the intersection of Federal Drive and New Life Drive. *The Midtown Collection at Foothills Farm Traffic Technical Memorandum* dated May 19, 2017 assumed 83 lots for single-family homes northwest of the intersection of Voyager Parkway and New Life Drive.

The InterQuest Marketplace is located just south of The Farm. The PUD plan approved by The City of Colorado Springs August 21, 2014 includes a portion of the Farm Master Plan. Table 2 shows the approved and existing land uses within The InterQuest Marketplace. The approved PUD plan is attached.

Proposed Land Uses

An amendment is proposed to the portion of The Farm Master Plan Area located south of the wetlands area. As shown on the approved master plan, an annexation agreement restricts the commercial and employment use for this area to 1,100,000 square feet. The amendment requests the allowable floor area be increased to 2,000,000 square feet. This area is planned to be developed with a mix of offices, hotels, restaurants, a gym, and residential uses. Table 2 shows the land uses assumed. A site plan is also attached. The residential uses in this area would be reduced from the maximum 720 units allowed by the approved master plan to 623 units (280 multi-family units in The Farm Apartments Filing No. 1, 83 single-family units in The Midtown Collection at Foothills Farm, and 260 multi-family units planned for the northwest corner of Federal/New Life).

TRIP GENERATION

Estimates of the traffic volumes expected to be generated by the assumed uses within the amendment area were made using the nationally published trip generation rates found in *Trip Generation, 9th Edition, 2012 and 10th Edition, 2016* by the Institute of Transportation Engineers (ITE). Table 1 shows the trip generation estimates.

The total number of vehicle-trips generated by the land uses has been reduced to account for the internal vehicle-trips made within the site between land uses, without use of the external streets surrounding the site. Table 2 shows the number of internal trips assumed for each land use. The internal trip reduction is an estimate by LSC based on National Highway Cooperative Highway Research Program (NCHRP) Report 684 Enhancing Internal Trip Capture Estimation for Mixed-Use Developments. The results of the spreadsheet model are attached.

The land uses within The Farm Master Plan locations south of the wetlands area are projected to generate about 30,665 vehicle-trips on the average weekday, with about half entering and half exiting the site during a 24-hour period. During the morning peak hour, which generally occurs for one hour between 6:30 and 8:30 a.m., about 1,543 vehicles would enter and 615 vehicles would exit the site.

During the afternoon peak hour, which generally occurs for one hour between 4:15 and 6:15 p.m., about 868 vehicles would enter and 1,217 vehicles would exit the site.

Table 2 also shows the trip generation estimate for this same area from the *Interquest North Classic Revision Colorado Springs, Colorado Traffic Impact Study* by Krager & Associates, Inc. dated August 2005. The currently proposed amendment land uses assumed for this same area are projected to generate about 12,279 more vehicles-trips per day than were estimated in the 2005 TIS. About 153 fewer entering vehicles and 75 more exiting vehicles are projected during the morning peak hour than was assumed in the 2005 TIA. About 285 more entering vehicles and 287 fewer exiting vehicles are projected during the afternoon peak hour than was assumed in the 2005 TIS.

Table 2 also contains a trip generation estimate for this same area based on the land uses shown in the InterQuest Marketplace PUD approved by the by The City of Colorado Springs August 21, 2014. The currently proposed amendment land uses assumed for this same area are projected to generate about 14,733 more vehicles-trips per day than would be estimated based on the currently approved plans. About 298 more entering vehicles and 177 more exiting vehicles are projected during the morning peak hour than would be estimated based on the currently approved plans. About 376 more entering vehicles and 74 more exiting vehicles are projected during the afternoon peak hour than would be estimated based on the currently approved plans.

* * * * *

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:KDF:bjwb

Enclosures: Tables 1-2
 The Farm Master Plan
 InterQuest Marketplace PUD
 The Campus at Foothills Farm Site Plan

Table 1
Trip Generation Estimate
The Campus at Foothill Farms

FIGURE 7

NCHRP 684 Internal Trip Capture Estimation Tool					
Project Name:	The Farm South of Wetlands Area		Organization:	LSC Transportation Consultants, Inc.	
Project Location:	New Life/Voyager		Performed By:	KDF	
Scenario Description:	Buildout		Date:	7/12/2018	
Analysis Year:	2040		Checked By:		
Analysis Period:	AM Street Peak Hour		Date:		

Table 1-A: Base Vehicle-Trip Generation Estimates (Single-Use Site Estimate)

Land Use	Development Data (For Information Only)			Estimated Vehicle-Trips ³		
	ITE LUCs ¹	Quantity	Units	Total	Entering	Exiting
Office				1,405	1,208	197
Retail				155	96	59
Restaurant				228	131	97
Cinema/Entertainment				0	0	0
Residential				310	73	237
Hotel				196	129	67
All Other Land Uses ²				34	17	17
				2,328	1,654	674

Table 2-A: Mode Split and Vehicle Occupancy Estimates

Land Use	Entering Trips			Exiting Trips		
	Veh. Occ. ⁴	% Transit	% Non-Motorized	Veh. Occ. ⁴	% Transit	% Non-Motorized
Office						
Retail						
Restaurant						
Cinema/Entertainment						
Residential						
Hotel						
All Other Land Uses ²						

Table 3-A: Average Land Use Interchange Distances (Feet Walking Distance)

Origin (From)	Destination (To)					
	Office	Retail	Restaurant	Cinema/Entertainment	Residential	Hotel
Office						
Retail						
Restaurant						
Cinema/Entertainment						
Residential						
Hotel						

Table 4-A: Internal Person-Trip Origin-Destination Matrix*

Origin (From)	Destination (To)					
	Office	Retail	Restaurant	Cinema/Entertainment	Residential	Hotel
Office		31	30	0	0	0
Retail	17		8	0	1	0
Restaurant	30	8		0	4	3
Cinema/Entertainment	0	0	0		0	0
Residential	5	2	26	0		0
Hotel	36	4	6	0	0	

Table 5-A: Computations Summary

	Total	Entering	Exiting
All Person-Trips	2,328	1,654	674
Internal Capture Percentage	18%	13%	31%
External Vehicle-Trips ⁵	1,906	1,443	463
External Transit-Trips ⁶	0	0	0
External Non-Motorized Trips ⁶	0	0	0

Table 6-A: Internal Trip Capture Percentages by Land Use

Land Use	Entering Trips	Exiting Trips
Office	7%	31%
Retail	47%	44%
Restaurant	53%	46%
Cinema/Entertainment	N/A	N/A
Residential	7%	14%
Hotel	2%	69%

¹Land Use Codes (LUCs) from *Trip Generation Manual*, published by the Institute of Transportation Engineers.

²Total estimate for all other land uses at mixed-use development site is not subject to internal trip capture computations in this estimator.

³Enter trips assuming no transit or non-motorized trips (as assumed in ITE *Trip Generation Manual*).

⁴Enter vehicle occupancy assumed in Table 1-A vehicle trips. If vehicle occupancy changes for proposed mixed-use project, manual adjustments must be made to Tables 5-A, 9-A (O and D). Enter transit, non-motorized percentages that will result with proposed mixed-use project complete.

⁵Vehicle-trips computed using the mode split and vehicle occupancy values provided in Table 2-A.

⁶Person-Trips

*Indicates computation that has been rounded to the nearest whole number.

Estimation Tool Developed by the Texas A&M Transportation Institute - Version 2013.1

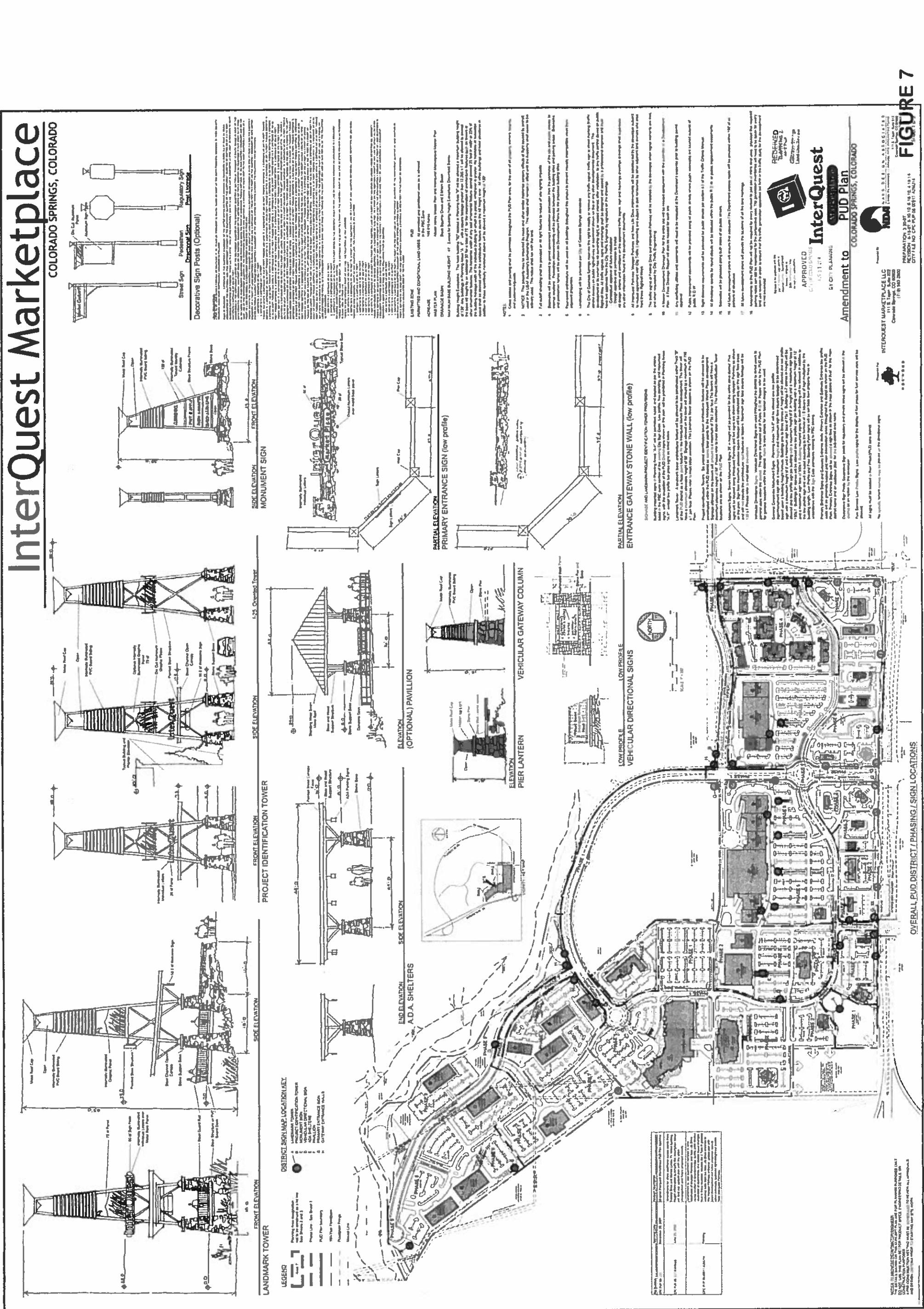
FIGURE 7

FIGURE 7



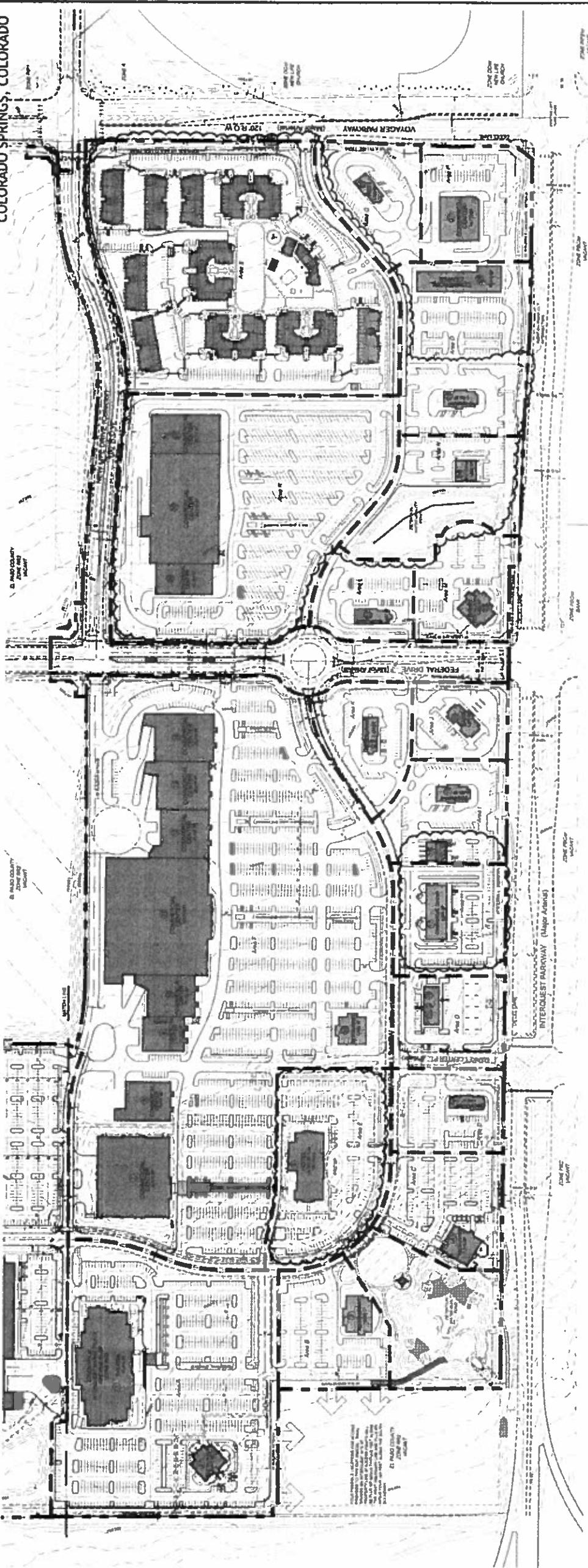
InterQuest Marketplace

COLORADO SPRINGS, COLORADO

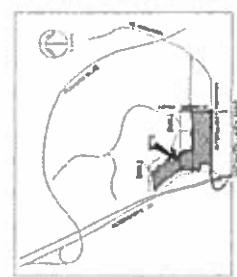
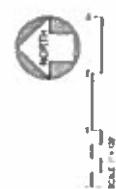


InterQuest Marketplace

COLORADO SPRINGS, COLORADO



LAND USE AREA WITH PARKING REQUIREMENTS	Area	Permit Area	Permit Area	Permit Area	Permit Area	Permit Area	Permit Area	Permit Area
Commercial	1.00%	100%	100%	100%	100%	100%	100%	100%
Residential	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Public	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Total	1.00%	100%	100%	100%	100%	100%	100%	100%



InterQuest
SUBMISSION
PUD Plan
COLORADO SPRINGS, COLORADO

Amendment to

INTERQUEST MARKETPLACE LLC
Colorado Springs, CO
Case No. 17-2000
City File No. C-17-2000-1A
CITY OF COLORADO SPRINGS, COLORADO
CITY OF COLORADO SPRINGS, COLORADO

APPROVED
by
Planning Commission
Date: 11/16/18

REVIEWED
by
City of Colorado Springs
Date: 11/16/18

ISSUED
by
City of Colorado Springs
Date: 11/16/18

FIGURE 7

InterQuest Marketplace

COLORADO SPRINGS, COLORADO

InterQuest
StarPointe

PUD Plan

Amendment to

COLORADO SPRINGS, COLORADO

Approved

DRAFTING

hme

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FIGURE 7

