SPECIAL WORK SESSION AGENDA

CITY COUNCIL SPECIAL WORK SESSION TUESDAY JANUARY 22, 2019 JOE C. MONTOYA COMMUNITY AND SENIOR CENTER 2451 NORTH THORPE ROAD 6:00 P.M.

1. Call to Order

NOTICE OF OPTION TO RECESS INTO EXECUTIVE SESSION

Pursuant to A.R.S. §38-431.02, notice is hereby given to the members of the City Council and to the general public that, at this work session, the City Council may vote to go into executive session, which will not be open to the public, for legal advice and discussion with the City's attorneys for legal advice on any item listed on the following agenda, pursuant to A.R.S. §38-431.03(A)(3).

2. Pledge of Allegiance and Mission Statement

MISSION STATEMENT

The mission of the City of Flagstaff is to protect and enhance the quality of life for all.

3. <u>ROLL CALL</u>

NOTE: One or more Councilmembers may be in attendance telephonically or by other technological means.

MAYOR EVANS VICE MAYOR SHIMONI COUNCILMEMBER ASLAN COUNCILMEMBER MCCARTHY

COUNCILMEMBER ODEGAARD COUNCILMEMBER SALAS COUNCILMEMBER WHELAN

4. Public Participation

Public Participation enables the public to address the council about items that are not on the prepared agenda. Public Participation appears on the agenda twice, at the beginning and at the end of the work session. You may speak at one or the other, but not both. Anyone wishing to comment at the meeting is asked to fill out a speaker card and submit it to the recording clerk. When the item comes up on the agenda, your name will be called. You may address the Council up to three times throughout the meeting, including comments made during Public Participation. Please limit your remarks to three minutes per item to allow everyone to have an opportunity to speak. At the discretion of the Chair, ten or more persons present at the meeting and wishing to speak may appoint a representative who may have no more than fifteen minutes to speak.

5. Martin Luther King Day Proclamation

- 6. Discussion of the parking inventory study performed by Rich and Associates regarding parking spaces on the north and south sides of Flagstaff's Downtown.
- 7. Council Update: City of Flagstaff Municipal Court Facility Project.
- 8. Update on Redevelopment of City Courthouse Property.
- 9. Discussion regarding 2019 State Legislative Trip and Priorities
- **10. Public Participation**
- 11. Informational Items To/From Mayor, Council, and City Manager; future agenda item requests
- 12. Adjournment

CERTIFICATE OF POSTING OF NOTICE

Dated this _____ day of _____, 2019.

Stacy Saltzburg, MMC, City Clerk

CITY OF FLAGSTAFF

STAFF SUMMARY REPORT

To: The Honorable Mayor and Council

From: David McIntire, Community Investment Director

Date: 01/08/2019

Meeting Date: 01/22/2019



TITLE:

Discussion of the parking inventory study performed by Rich and Associates regarding parking spaces on the north and south sides of Flagstaff's Downtown.

DESIRED OUTCOME:

Council will receive information regarding the parking inventory and current usage in downtown Flagstaff to inform future policy decisions and to enhance understanding of the parking district's current inventory.

EXECUTIVE SUMMARY:

Rich and Associates were retained to provide expert analysis of the parking inventory in downtown Flagstaff. The intention was to update previous analysis to understand the impacts of changes in use, recent growth and development, and parking management. This information will be used to assist in making decisions regarding investments in future parking inventory for the ParkFlag Program.

INFORMATION:

Rich and Associates were commissioned to provide a current analysis of the parking inventory in the north and south sections of downtown Flagstaff approximating the more heavily commercial portion of the ParkFlag District. The intention was to improve our understanding of the impact of changes in commercial uses, property development, and parking management. The goal is to use this information, along with other variables, to guide decisions on parking infrastructure investment and management. One important consideration is that this study was relevant for the present, and did not take anticipated future growth into the analysis.

The analysis included:

- •Updated Land Use Data (provided by City)
- •Updated Building Inventory / Parking Supply Inventory (Rich & Associates)
- •Occupancy Counts (one day) (Thursday, August 2, 2018, to coincide with peak tourism season)
- •Development of Parking Demand Tables based on existing conditions
- •Projections for potential higher volume days (+5% to +15% greater than observed)

The document and PowerPoint are attached, and selected key findings are outlined below:

North side of downtown:

- 68.4% of parking is private. 31.6% is public. Rich and Associate's advised best practice is a minimum of 50% of parking being available to the public.
- Occupancy did not exceed 58.1% on the day assessed.
- Most parking stressed time was 11-12 PM. This reflects a high concentration of government

offices in the downtown.

- At the peak hour, there was a surplus of 118 parking spaces. Parking was available but potentially inconvenient.
- Rich and Associate's advised best practice for parking is occupancy is 85% with 15% vacant.
- On August 2nd there was sufficient parking for that capacity.
- With an occupancy adjustment of 5%, 10% and 15% for busier days and growth, the parking required for optimal management is between 50 and 162 spaces.

South side of downtown:

- 50.6% of the parking on the south side is public which meets Rich and Associates best practice.
- Occupancy did not exceed 47% on the day assessed.
- Most stressed time was 5-7 PM which is typical of many communities.
- Even at peak time with upward adjustments, there was sufficient parking as of August 2, 2018.

These numbers are obviously aggregated by the region and there are some specific areas that are more challenged than others for parking. Some blocks have significant deficiencies while others are parked with additional capacity and some locations are less convenient. Additionally, future growth in the community and the area is anticipated and may increase parking pressure, but national patterns also show some reduction in traffic and parking needs as a potential long term trend. It will be important to take measured steps to address current inventory issues while maintaining an awareness of future trends to ensure the downtown, and residential areas around it, have the optimal parking scenario possible.

Attachments: Parking Inventory Study Parking Inventory Presentation

Parking Study Update City of Flagstaff

FINAL REPORT

submitted to:



City of Flagstaff Arizona November, 2018



RICH & ASSOCIATES PARKING CONSULTANTS Southfield, Michigan www.richassoc.com

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Section 1 - Executive Summary

Introduction

Rich & Associates have been asked to complete an update to a parking study completed for the City of Flagstaff, Arizona in 2009. This analysis is based on updated land use data provided by the City and parking supply information collected by Rich & Associates supported by a one-day occupancy count to evaluate how the current parking is being used. Although the analysis will analyze both sides of Historic Route 66, the analysis and results will be presented separately considering the unique conditions for each side of the downtown.

The demand is based on data collected in late July and Early August of 2018 and is intended to demonstrate conditions allowing for the impact from the peak summer tourist season.

Methodology

Rich uses the land use data provided from the City's GIS system validated by the field data collection for the types of land uses as a basis for determining the parking demand. Additionally, all on-street and off-street parking supply for the defined blocks is inventoried and classified as whether it is public or private parking. Rich defines public parking as parking that is available to anyone regardless of their destination. It therefore may include privately owned lots which charge a fee for parking but have no restrictions that someone must be visiting a specific destination. Private parking is reserved just for the staff or customers of specific businesses or offices or for the residents of apartment uses.

In order to provide a benchmark to compare the calculated parking needs based on the land use data, Rich performed an occupancy analysis for both the north and south sides of downtown. As noted above, this occupancy study was scheduled and conducted to occur during the peak summer tourist season. The counts began at 9:00 am on Thursday, August 2, 2018 and had counts conducted every two hours until 9:00 pm. Approximately 80 percent of the total parking supply on the north side and 69 percent of the south side supply including 100 percent of the publicly available off-street spaces on the south side and 82 percent of the on-street parking on the south side was directly inventoried in the analysis. Rich then corrected for any spaces not directly observed in order to have a comparison of the occupancy for the north and south sides of downtown.

Map 1 on page 2 shows the total downtown study area. Blocks 1 through 22 encompassed the entire south side study area while blocks 23 through 44 were the north side area. These were the blocks originally studied as part of the 2009 analysis. Blocks A, B, H & I were added for this latest analysis at the requests of the City. These blocks were all on the north side of the downtown.









North Downtown

The north side of Downtown Flagstaff is characterized by multiple types of land uses from retail to restaurant, mixed-use but with a high proportion of City and County government functions. Fully one-third of the total building square footage on the north side of the downtown is attributable to government. This has a high impact on the daily parking needs.

Parking Supply

The parking supply serving downtown Flagstaff totals 2,348 spaces. This is composed of 576 on-street spaces and 1,772 off-street spaces. More than two-thirds of the parking supply is privately controlled which means it is intended primarily for the staff, customers or visitors of specific entities. The configuration is summarized by **Table ES1** below.

North Side of Downtown							
	Pul	Public Private				tal	
On-Street	576	100.0%	0	0.0%	576	24.5%	
Off-Street	166	9.4%	1,606	90.6%	1,772	75.5%	
Total	742	31.6%	1,606	68.4%	2,348	100.0%	

Tabla	EQ1 _	North	Downtown	Darking	Supply	Summary	
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Occupancy Study Results / Parking Demand

Using provided land use data supported by Rich & Associates field data collection, Rich calculated the parking demand for the north side of downtown benchmarked to the observations conducted on August 2, 2018 between 9:00 am and 9:00 pm. The observations and calculated parking demand showed a peak need occurring between 3:00 pm and 5:00 pm when 1,362 spaces were occupied of 2,348 total available spaces. Correlating the calculated parking demand to this value would show that the north side of downtown would have a surplus of 986± spaces if total parking demand is compared against total parking supply and reflecting a shared-use analysis. In shared-use, spaces needed by one group can often be used by a different group with a complementary demand period such as office and restaurant. Office uses tend to peak earlier in the day whereas restaurant demand peaks much later. Therefore, parking spaces needed by restaurant patrons can be the same spaces that office workers may have used earlier in the day.



However, on the north side of downtown, just 32 percent of the supply is publicly available with the balance privately controlled. This creates issues because many private parking owners will prohibit use of their parking by outside users. If the surplus private parking (spaces not needed by businesses in their lots which are typically not made available to other users) are discarded from the calculation, the gross surplus become just $184\pm$ spaces. This is referred to as the "net basis".

Additionally, on the north side of downtown, there are various City and County government offices and functions that comprise a large proportion of the building square footage and so have a considerable effect on downtown parking needs. The analysis of the demand as determined from the parking demand model showed that the government uses exhibited a peak need between about 11:00 am and 12:00 noon. At this time of day, although the total parking demand was only slightly lower at 1,341 spaces needed, the impact on the net parking surplus is considerable. With the slightly lower demand (1,341 spaces), the gross surplus which is total parking supply minus total parking demand would increase slightly from $986\pm$ spaces to $1,007\pm$ spaces. However, applying the parking demand on each block first to the private supply on that block and following the assumption that any surplus capacity cannot be used by the general public and therefore discounting them, the net surplus is reduced from $184\pm$ spaces using the overall peak to just $118\pm$ spaces at the government peak hour.

Rich has also factored the parking demand to account for the possibility that the demand observed on the date corresponding to the occupancy counts was not representative of a peak planning day. The parking demand model was calibrated to the observed conditions and therefore, Rich has projected the needs assuming that they could be from five percent to perhaps 15 percent greater. Using the values corresponding to the government peak hour, the comparison of the net demand values shows that at five percent higher demand (1,408 spaces needed) that the net surplus would be reduced from 118± spaces corresponding to the observed day to just 70± spaces on a slightly busier day. Projecting the parking demand to be 10 percent higher than the values observed would mean a net surplus for the entire downtown of just 23 spaces, again after discounting surplus privately controlled parking.

Public Parking Needs

A standard or rule-of-thumb in the parking industry is that about 15 percent of spaces should be available in order for someone to easily find parking. Applying this standard to the anticipated parking needs as calculated and using the observed day values at the government peak hour, about 84 percent of the publicly available spaces would be expected to be occupied. Using demand increased by five percent would mean about 50 additional public parking spaces should be provided on the north side of downtown in order to meet the 15 percent vacancy benchmark.

At values 10 percent higher than the observed day conditions, just over 100 additional publicly available parking spaces would be needed in order to have a maximum occupancy for the publicly provided parking of about 85 percent.



South Downtown

Contrary to the land use allocation on the north side of downtown, the south has more commercial uses with very little impact from government related functions. Much of the parking demand on the south side comes from the commercial functions with a special significant impact from restaurant uses particularly during the peak hour period.

Parking Supply

Parking serving the needs of south downtown is split 50/50 between that which is publicly available and that which is privately provided. This division meets Rich's best practice that at least 50 percent be publicly available in order to foster a walkable community where patrons can park once and walk to multiple destinations without having to move their vehicle in between each stop.

Table	ES2 –	South	Side	Parking	Supply	Summarv
Table		oouin	oluc	i ai kiiig	ouppiy	Gammary

South Side of Downtown						
	Public Private		Public Private		То	tal
On-Street	462	100.0%	0	0.0%	462	30.6%
Off-Street	302	28.8%	745	71.2%	1,047	69.4%
Total	764	50.6%	745	49.4%	1,509	100.0%

Public and private parking supply on the south side of downtown totals 1,509 spaces. Sixty percent of the publicly available parking is on-street with just 40 percent of the capacity in four City owned and two private lots that charge a fee for parking and are therefore considered public.

Occupancy Study Results / Parking Demand South Side

Calculating the parking demand correlated to the observed conditions shows that the calculated demand peaked at $707\pm$ spaces needed between 5:00 pm and 6:00 pm which matches the $708\pm$ spaces expected to be occupied based on the occupancy counts after correcting for spaces not directly observed.



The parking demand associated with the restaurant land uses accounts for nearly 60 percent of the peak hour parking demand in the early evening and just over one-third of the afternoon peak (11:00 am - 12:00 noon) as many of the other land uses have more impact on total parking needs.

The 707-space parking demand compared against the 1,509 spaces available shows that on the gross basis, the south side would have a surplus of 802± spaces at the peak hour meaning less than 50 percent of the total parking supply is being used at the peak hour. The gross surplus / deficit figure simply compares total parking demand against total parking supply. While a comparison of total demand against total supply can provide some indication of the relative "parking health" of a community, the total comparison is slightly misleading. This is because it includes private parking where the "extra" spaces are not necessarily available to the general public. The parking spaces in these facilities are only intended for the staff, customers or staff of that business. If your destination is not that business, you may not park in that lot.

Following the assumption that parking provided by a business is likely going to be the most convenient as well as free and therefore the preferred choice, the net surplus calculation first applies the parking demand on each block to the private parking supply. Any private spaces that exceed the demand are discarded from the calculation for the reason noted above. Therefore, the "net surplus / deficit" calculation deducts surplus private parking in order to derive a truer representation of the parking needs faced by many patrons. After making this adjustment the "net surplus" for the south side is 589± spaces reduced from the 802± spaces calculated on the gross basis.

Unlike the north side of downtown with its high proportion of private parking, the south side of downtown has a greater proportion of the parking publicly available. With the higher proportion of parking publicly available, this means that there is consequently greater opportunity to use public parking even if private parking options are available.

While application of the parking demand model in the manner noted above suggests that private parking should be the preferred choice, analysis of the public parking utilization from the occupancy counts suggests that many patrons may be electing to use public parking rather than the private supply. This may be not only because there are many spaces still free although time limited on the south side as well as use of public supply allows them to visit multiple destinations once parked.

Allocating demand first to the private parking we would expect that about 70 percent of the privately controlled spaces would be occupied and just 23 percent of the public supply. However, based on data contained within the occupancy counts and on the 707± space calculated peak hour demand, it appears that just 41 percent of the available private supply (303 spaces) would be used leaving 404± public spaces occupied. These calculations still show that just 53 percent of the available public parking supply is occupied.



Adjusted Parking Demand – Alternative Peak Day Values

The parking demand as demonstrated was calculated and calibrated to the conditions observed on Thursday August 2, 2018. This was the date that the occupancy count was performed in Downtown Flagstaff. Although this was during the summer peak tourist season, it is undetermined whether the volume of activity on this date represents a peak planning day for parking analysis purposes. Therefore, Rich has calculated the parking demand by adjusting the peak by from five percent to 15 percent higher values to demonstrate the impact that higher volumes may have on parking needs.

Adjusting the calculated parking demand by five percent would increase the peak hour demand to 743± spaces. Applying the same proportion for use of public and private parking as calculated for the observed day, would mean an expected 313 private spaces would be occupied and 430 publicly available spaces. This would represent just 56 percent of the publicly available supply. Even with adjusted values by as much as 15 percent greater than conditions observed would still mean that just 64 percent of publicly available spaces would be expected to be occupied. With best practices to manage public parking such that at least 15 percent of capacity (85 percent occupancy) is available, the data suggests that the south side of Downtown Flagstaff should continue to have adequate publicly available parking based on the existing conditions.

	Peak Hour Demand (5:00 PM - 6:00 PM)							
		Private	Parking	Public Parking				
Pct Change	Peak	Expected #	Pct of	Expected #	Pct of			
Observation	Demand	Spaces	Private	Spaces	Public			
Day	(Shared)	Occupied Supply		Occupied	Supply			
0%	707	303	41%	404	53%			
5%	743	313	42%	430	56%			
10%	778	321	43%	457	60%			
15%	813	326	44%	487	64%			

Table ES3 - Public Parking Occupancy Projections



2009 / 2018 Study Comparison

There is a substantial difference between the total parking demand values calculated in the 2009 study and the current parking demand model. This is primarily due to a change in the methodology of reporting information. The methodology employed at the time of the 2009 study calculates the parking demand for each block individually by assuming that all demand on that block wants to park on that block. Therefore, the calculated demand for each block did not factor for the availability of parking, the location of competing parking or the price in the determination of the need for parking. This compares to the needs as calculated now that also considers the demand for parking on a block but also that some of the same parking spaces needed by a group with a later peak are ones that were previously occupied by users from a different group, and because that demand has now decreased, some of those same parking spaces are available. This reduces the overall parking need. This is considered shared use which is much more widely applied now. In the past, typically once this "theoretical" demand for parking by block had been established, additional factors would need to be considered to derive actual parking need. The occupancy counts in 2009 showed not only a variation in usage throughout the survey day but also less than full occupancy of the on-street and off-street parking spaces. This frequent inconsistency was difficult and confusing to demonstrate to client communities.

This in turn led to a methodology demonstrated in the 2018 analysis that relates the 'calculated' parking demand to actually observed conditions. It makes it much clearer and easier to understand the parking demand when the parking generation (demand) factors applied to the land use square footage values show a parking need that can be related to what is actually happening via the observations. Once this correlation is established, appropriate adjustments (such as adding a percentage to account for likely higher days of utilization) can be employed. The current model understands and applies factors that will vary with lower restaurant demand, for example, earlier in the day increasing to a lunch peak, declining and then rising again to coincide with a dinner or evening peak. At this same later afternoon or evening period, parking needed by office and government uses would have substantially declined as the businesses closed or activity began to wind down for the day. We can also demonstrate the limited availability of private parking to non-patrons by "throwing out" from the surplus / deficit calculation any "surplus" private spaces because they are not available to the general public or users from adjacent blocks. Because patrons use of parking by its nature are considering factors such as the availability of parking at the destination, available parking on adjacent blocks, walking to destinations on adjacent blocks and pricing, the recent model will reflect this with lower values that can relate to what is actually occurring.

Other factors that should be considered include the fact that there is more management of the parking spaces via the paid system today and that Rich has also found that parking generation rates have decreased across the country.



Section 2 – North Side Analysis

The City of Flagstaff has requested this update of the parking study performed for the City in 2009. Since the time of the initial analysis, the City has implemented the Park Flag system to help manage on and off-street spaces. This is done by the fees charged for parking. In most spaces covered by the payment system, cars can stay for as long as desired so long as the hourly fee (\$1.00 per hour) is paid. There are, however, still some on and off-street spaces which are free but time limited. In addition to this public parking, there is a considerable inventory of privately controlled parking that is only available to the customers, staff or visitors of the owning entity. This includes spaces operated by various City or County offices within the downtown. The intent of this update is to help the City identify when and where peak needs are occurring and how this affects the availability of parking so that appropriate planning may be conducted.

Parking Supply

The detailed parking inventory providing for the needs on the north side of downtown Flagstaff totals approximately 2,300± spaces. The parking is split with 32 percent publicly available (on and off-street) and 68 percent privately provided. Rich defines public parking as parking that a patron may use and then visit any destination(s) they wish. As such, it may include parking provided by a private entity but available to anyone so long as they pay the daily fee. This contrast with private parking that is only intended for the staff, customers or visitors of the owning entity. At the conclusion of their visit, the patron is generally expected to move their vehicle to make way for the next customer. Rich's best practice is that a municipality control at least 50 percent of the parking supply in order to foster a more walkable community.

Table 1 below summarizes the on and off-street supply for the north side of Downtown Flagstaff. Of the 742 public spaces on the north side, 576 are on-street and just 166 spaces are provided in off-street lots or facilities. This includes 63 spaces in an underground facility managed by American Valet on block 35 which charges an initial rate of \$4.00 the first hour or any part thereof.

North Side of Downtown							
	Public		Priv	vate	То	tal	
On-Street	576	100.0%	0	0.0%	576	24.5%	
Off-Street	166	9.4%	1,606	90.6%	1,772	75.5%	
Total	742	31.6%	1,606	68.4%	2,348	100.0%	

Table 1 - North Side Summary Table



Map 2 on page 17 shows the on and off-street parking supply for the north side of Downtown. Parking areas which are privately controlled are shown in red while off-street publicly available parking areas are shown in blue along with the total capacity of the parking facility. The letter designations are keyed to **Table 2** on page 11 which details the off-street parking supply.

On-street parking is also shown on the map. All on-street parking is considered publicly available. Spaces encompassed in the Park Flag system are shown in orange while unmarked spaces with no time limit are shown in green. These spaces were primarily associated with the blocks just added as part of this update (A, B, H & I). The two-hour spaces were along Route 66 or on the north side of the park across from City Hall. **Table 3** beginning on page 14 details the on-street parking.

It will be noted that the on-street supply detail shows blocks numbered as 322, 400, 411 and 422. These are blocks just outside the study area boundaries and just north of blocks 32, 40, 41 and 42 respectively. These were added and included because of the on-street parking along the south face of each of these blocks that Rich feels is likely used by parking needs inside the defined study area.



Table 2 - Off-Street Parking Supply Detail

		I		Private Off-Stree	t		Public / Private				
	Revise						General				
	Map			Barrier		Pay-to-	(Free/ Time	Pay-to-park	Barrier		
Block	Ltr	Description	Off-Street	Free	FX Permit	park	Limited)	EX Exempt	Free	Total	
23	А	Lot	0	6	110	0	0	0	0		
		Block Total	0	6	110	0	0	0	0	116	
24		N	o Off-St Supp	ly							
		Block Total	0	0	0	0	0	0	0	0	
25	В	Pawn Shop	13	0	0	0	0	0	0		
	С	Northwest Lot	75	0	0	0	0	0	0		
	D	City Court Building	16	1	0	0	0	0	0		
	E	Fast Auto Loans, Inc.	13	0	0	0	0	0	0		
	F	Public Southeast Lot	0	0	0	23	0	0	2		
	G	Rodeway Inn Lot	14	1	0	0	0	0	0		
		Block Total	131	2	0	23	0	0	2	158	
26	Н	Sports Exchange	8	0	0	0	0	0	0		
	i	Aspen Deli	2	0	0	0	0	0	0		
	J	Theatre	4	0	0	0	0	0	0		
	К	Jimmy Johns	16	2	0	0	0	0	0		
	L	Peace Surplus	11	0	0	0	0	0	0		
	М	Alpine Pizza	3	0	0	0	0	0	0		
	Ν	Alley	8	0	0	0	0	0	0		
	0	Weatherford	9	0	0	0	0	0	0		
	Р	Private Lot	8	0	0	0	0	0	0		
		Block Total	69	2	0	0	0	0	0	71	
27	Q	Public Lot	0	0	0	0	0	0	9		
		Block Total	0	0	0	0	0	0	9	9	
28	R	West Of Moon Gallery	7	0	0	0	0	0	0		
	S	MartAnnes Burrito Palace	16	1	0	0	0	0	0		
	Т	Arizona Music Pro	9	0	0	0	0	0	0		
		Block Total	32	1	0	0	0	0	0	33	
29	U	Babbitt Ford Lincoln		0	0	0	0	0	0		
	V	Run Flagstaff	13	0	0	0	0	0	0		
		Block Total	13	0	0	0	0	0	0	13	
30	W	Napa	7	0	0	0	0	0	0		
	Х	Ford		0	0	0	0	0	0		
	Y	Wicked AZ Coffee	4	1	0	0	0	0	0		
	Z	Flagstaff Tuxedos, etc.	11	1	0	0	0	0	0		
		Block Total	22	2	0	0	0	0	0	24	



				Private Off-Stree	t	Public Off-Street					
Block	Revise Map Ltr	Description	Off-Street	Barrier Pc Off-Street Free FX Permit p		Pay-to- park	Public General (Free/ Time Limited)	Pay-to-park Barrier EX Exempt Free		Total	
31	AA	Pioneer Title Agency	64	4	0	0	0	0	0		
_	AB	Lot		0	0	0	0	0	0		
	AC	Title Max	16	1	0	0	0	0	0		
	AD	Café Daily Fare	23	0	0	0	0	0	0		
		Block Total	103	5	0	0	0 0 0		0	108	
32	AE	Stewart Title Company	10	2	0	0	0	0	0		
	AF	Tenant Only	36	0	0	0	0	0	0		
		Block Total	46	2	0	0	0	0	0	48	
33	AG	U.S. Gov't Lot	40	0	0	0	0	0	0		
	AH	Post Office Back Lot	25	0	0	0	0	0	0		
	AI	Performance Reporters	18	0	0	0	0	0	0		
	AJ	IceHouse Side Lot	8	0	0	0	0	0	0		
		Block Total	91	91 0 0 0		0	0	0	0	91	
34	AK	Alley	19	0	0	0	0	0	0		
	AL	Hotel Monte Vista	22	0	0	0	0	0	0		
	AM	Lotus Lounge	4	0	0	0	0	0	0		
	AN	Bank Of America Kiosk	33	0	0	0	0	0	0		
	AO	Sunwest Bank Top Deck	24	0	0	0	0	0	0		
	AP	Sunwest Bank Lower Level	38	0	0	0	0	0	0		
		Block Total	140	0	0	0	0	0	0	140	
35	AQ	2nd Floor Parking Deck	30	0	0	0	0	0	0		
	AR	US Court Probation & Parole	19	0	0	0	0	0	0		
	AS	Underground Garage	0	0	0	63	0	0	0		
		Block Total	49	0	0	63	0	0	0	112	
36	AT	Freeman Law	19	0	0	0	0	0	0		
	AU	Deckers	10	1	0	0	0	0	0		
	AV	Heritage Square Trust	0	0	0	20	0	0	1		
	AW	Century Link	20	0	0	0	0	0	0		
		Block Total	49	1	0	20	0	0	1	71	
37	AX	Residence Inn	32	5	0	0	0	0	0		
	AY	Alley	13	0	0	0	0	0	0		
	AZ	ROV Ride Shop	16	0	0	0	0	0	0		
	BA	India Palace	14	1	0	0	0	0	0		
		Block Total	75	6	0	0	0	0	0	81	
38	BB	Public Lots	0	0	24	18	7	0	3		
		Block Total	0	0	24	18	7	0	3	52	
39	BC	Library Lots	29	2	0	0	0	0	0		
		Block Total	29	2	0	0	0	0	0	31	



			(Private Off-Street	ł		Public / Private			
Block	Revise Map Ltr	Description	Off-Street	Barrier Free	FX Permit	Pay-to- park	Public General (Free/ Time Limited)	Pay-to-park EX Exempt	Barrier Free	Total
40	BD	Chase Bank	77	2	0	0	0	0	0	
	BE	Reserved Bldg Inspector	5	0	0	0	0	0	0	
	BF	Sustainablity and Environment	0	0 3 35		0	0	0	0	
		Block Total	82 5 35 0		0 0 0		0	0	122	
41	BG	Pay-to-Park Lot	0	0	0	7	0	4	2	
	BH	Theatre	10	0	0	0	0	0	0	
	BI	State Farm	13	0	0	0	0	0	0	
	BJ	National Bank	37	2	0	7	0	0	0	
		Block Total	60	2	0	14	0	4	2	82
42	BK	BBVA Compass	25	1	0	0	0	0	0	
	BL	Coconino County Public Fiduciary	28	2	0	0	0	0	0	
	BM	Reality Executives of Flagstaff	16	0	0	0	0	0	0	
	BN	Flagstaff Holistic Spa and Wellness	24	1	0	0	0	0	0	
	BO	22 Birch (Wine Shop & Bar)	9	9 0 0		0	0	0	0	
		Block Total	102 4 0		0	0	0	0	106	
43	BP	County Courthouse	13		2	0	0	0	0	
	BQ	County Courthouse	2							
		Block Total	13 2 2		0	0	0	0	17	
44	BR	County Admin Ctr	21	21 3		0	0	0	0	
	BS	Webb Law Office	11	0	0	0	0	0	0	
	BT	Mexpro Insurance Professionals	0	0	19	0	0	0	0	
	BU	County Probation Department	10	1	10	0	0	0	0	
	BV	202 Bldg	9	0	0	0	0	0	0	
		Block Total	51	4	63	0	0	0	0	118
Α		No Off-St Supply								
		Block Total	0	0	0	0	0	0	0	0
В	BW	Coconino County Recorder	0	2	34	0	0	0	0	
	BX	Apts.	10	0	0	0	0	0	0	
		Block Total	10	2	34	0	0	0	0	46
422	BY	County Employee Lot	50	0	0	0	0	0	0	
		Block Total	50	0	0	0	0	0	0	50
н	BZ	Residential	19	0	0	0	0	0	0	
		Block Total	19	0	0	0	0	0	0	19
I	CA	VFW	34	2	0	0	0	0	0	
	СВ	Apts.	12	0	0	0	0	0	0	
	СС	Salon	6	0	0	0	0	0	0	
		Block Total	52	2	0	0	0	0	0	54
		Total North Side	1,288	50	268	138	7	4	17	1,772
		Public vs. Private		1,606		166				



Table 3 - On-Street	Parking	Supply	Detail
---------------------	---------	--------	--------

	Block		0.11.0.11	15 Minute	Marked-No	Unmarked-No				
BIOCK	гасе	Meterea	2 HOUr	Parking	Limit Day	Limit				
23	A	8	0		U dk Falso	0				
	<u>ь</u>				block Face					
		8	0	0	0	0				
TOTAL	16	16	0	0	0	0				
24	A		-	No Pa	arking	-				
	В			No Pa	arking					
	С			No Pa	arking					
	D			No Blo	ck Face					
TOTAL	0	0	0	0	0	0				
25	Α	8	0	0	0	0				
	В			No Pa	arking					
	С			No Pa	arking					
	D			No Pa	arking					
TOTAL	8	8	0	0	0	0				
26	Α	5	0	0	0	0				
	В	7	0	0	0	0				
	C	0	2	0	0	0				
TOTAL	14	12	No Parking							
	14	0	2	0	0	0				
27	A B	0 6	0	0	0	0				
	C C	0	10	0	0	0				
	D	8	0	0	0	0				
TOTAL	32	22	10	0	0	0				
28	Α	8	0	0	0	0				
	В	6	0	0	0	0				
	С	3	0	0	0	0				
	D	6	0	0	0	0				
TOTAL	23	23	0	0	0	0				
29	Α	7	0	0	0	0				
	В			No Pa	arking					
	С			No Pa	arking					
	D	9	0	0	0	0				
TOTAL	16	16	0	0	0	0				
30	A	7	0	0	0	0				
	B	2	0	0	0	0				
	<u> </u>			No Pa	arking					
TOTAL	0	0	0			0				
101AL 21	9	9	0	0	0	2				
51	R	0	U		ck Face	3				
	<u>د</u>				arking					
	D D	15	0	0	0	0				
TOTAL	18	15	0	0	0	3				



Block	Block Face	Metered	2 Hour	15 Minute Parking	Marked-No Limit Day	Unmarked-No Limit
32	Α	8	0	0	0	0
	В	7	0	0	0	0
	С	3	0	0	0	0
	D			No Pa	arking	
TOTAL	18	18	0	0	0	0
33	Α	10	0	0	0	0
	В	No Parking	0	0	0	0
	С	6	0	0	0	0
	D	0	0	6	0	0
TOTAL	22	16	0	6	0	0
34	Α	9	0	0	0	0
	В	0	0	6	0	0
	С	7	0	0	0	0
	D	6	0	0	0	0
TOTAL	28	22	0	6	0	0
35	Α	8	0	0	0	0
	В	5	0	0	0	0
	С	8	0	0	0	0
	D	7	0	0	0	0
TOTAL	28	28	0	0	0	0
36	Α	8	0	0	0	0
	В	8	0	0	0	0
	С	8	0	0	0	0
	D	9	0	0	0	0
TOTAL	33	33	0	0	0	0
37	Α	4	0	0	0	0
	В	5	0	0	0	0
	С	9	0	0	0	0
	D			No Pa	arking	
TOTAL	18	18	0	0	0	0
38	Α	0	7	0	0	0
	В			No Pa	arking	
	С			No Pa	arking	
	D			No Blo	ck Face	
TOTAL	7	0	7	0	0	0
39	Α	0	0	0	0	11
	В			No Blo	ck Face	
	С	11	0	0	0	0
	D	11	0	0	0	0
TOTAL	33	22	0	0	0	11
40	Α	7	0	0	0	1
	В	8	0	0	0	0
	С	4	0	0	0	0
	D			No Pa	arking	•
TOTAL	20	19	0	0	0	1

Table 3 - On-Street Parking Supply Detail (Continued)



	Block			15 Minute	Marked-No	Unmarked-No
Block	Face	Metered	2 Hour	Parking	Limit Day	Limit
41	Α	9	0	0	0	0
	В	4	0	0	0	0
	С	7	0	0	0	0
	D	7	0	0	0	0
TOTAL	27	27	0	0	0	0
42	Α	8	0	0	0	0
	В	7	0	0	0	0
	С	8	0	0	0	0
	D	5	0	0	0	0
TOTAL	28	28	0	0	0	0
43	Α	5	0	0	0	0
	В	10	0	0	0	0
	с	9	0	0	0	0
	D	9	0	0	0	0
TOTAL	33	33	0	0	0	0
44	Α	9	0	0	0	0
	В			No Pa	arking	•
	С	6	0	0	0	0
	D	6	0	0	0	0
TOTAL	21	21	0	0	0	0
A	 A	0	0	0	0	6
	В	0	0	0	0	5
	c	6	0	0	0	0
	D	0	0	0 0		4
TOTAL	21	6	0	0 0		15
В	Α	0	0	0	0	7
	В	0	0	0	9	0
	c	11	0	0	0	0
	D			No Pa	arking	•
TOTAL	27	11	0	0	9	7
н	Α	0	0	0	0	9
	В	-	-	No Pa	arking	
	С	0	0	0	9	0
	D	0	0	0	9	0
TOTAL	27	0	0	0	18	9
I	Α	0	0	0	0	10
	В			No Pa	arking	•
	С			No Pa	arking	
	D			No Pa	arking	
TOTAL	10	0	0	0	0	10
322	С	11				
TOTAL	11	11	0	0	0	0
400	С	9				
TOTAL	9	9	0	0	0	0
411	С	10				
TOTAL	10	10	0	0	0	0
422	С	9				
TOTAL	9	9	0	0	0	0
North Total	576	462	19	12	27	56

Table 3 - On-Street Parking Supply Detail (Continued)









	MAP Number:
I STUDY	MAP 2
REA	Page

Parking Occupancy

With the parking inventory quantified, the next critical step in the process is the evaluation of the occupancy counts conducted. This data provides not only a baseline to which the calculated parking can be compared to ensure it reasonably portrays downtown parking, but when analyzed by lot and location can also provide some additional insight. The detailed occupancy counts are provided in the appendix of the report.

Methodology

On Thursday, August 2, 2018 Rich & Associates staff conducted occupancy counts of the onstreet and off-street parking supply. The counts were conducted beginning at 9:00 am and recorded the number of occupied parking spaces in off-street parking locations and on-street spaces. Counts were conducted every two hours until 9:00 pm. Because not every space can be evaluated as part of an efficient route within the time frame, the intent of the occupancy analysis is to inventory as many spaces as possible and then apply the same occupancy rate from the observed spaces to the spaces not directly observed to determine a total "expected" or corrected occupancy. How this affects the calculated parking demand will be discussed beginning on page 24.

In addition to providing the benchmark data for the comparison to calculated parking demand, the observations can demonstrate the occupancy rate during the peak hour for many on and offstreet parking spaces. The peak hour occupancy (3:00 pm – 5:00 pm) of the various parking areas is demonstrated by **Map 3** on the following page.

In addition to the peak hour occupancy exhibited by certain parking areas during the peak hour, some of these will achieve a higher occupancy at some other point during the day. This is referred to as "peak occupancy achieved" and is shown by **Map 4** on page 20. The peak occupancy achieved simply shows the highest occupancy observed for each parking area and not at some consistent time of day. For some areas, peak occupancy in that lot, garage or block face may occur very early in the day whereas others the peak may occur much later. This map is designed to demonstrate parking areas or on-street block faces that may have sufficient parking at the time that the overall study area is peaking, and instead exhibit higher occupancies at some different time of the day creating some frustration for customers, visitors or staff.

Analysis of maps 3 and 4 show that there are only a few areas that demonstrated higher occupancy that was reflected by a change into a different color in the rankings.









 Sheet Title:
 MAP Number:

 NORTH STUDY AREA
 MAP 3

 PEAK OCCUPANCY
 MAP 3

 3:00 PM - 5:00 PM
 Page







	MAP Number:
RTH STUDY AREA AK OCCUPANCY	MAP 4
ACHIEVED	Page

The second critical aspect of the occupancy counts is to provide a comparison for the demand model. This uses parking generation rates applied to the square footage attributable to each land use for calculating the number of parking spaces needed. The corrected occupancy provides a benchmark to which the calculated parking can be compared. A close correlation between the parking occupancy as observed and the calculated parking demand lends confidence in the demand values used.

The following series of exhibits demonstrate how the observed parking occupancy was corrected so that a complete calculated value could be compared to the observed occupancy.

Off-Street Parking

Rich directly observed 1,276 (72 percent) of the 1,772 offstreet spaces. At each observation period (9:00 am -11:00 am, 11:00 am - 1:00 pm etc.) Rich calculated the percentage of observed spaces occupied. For example, at the 9:00 am - 11:00 am observation, 641 spaces were occupied of the 1,276 spaces observed. This represented an occupancy rate of 50 percent. Comparing the number of spaces directly observed (1,276) to the total off-street supply shows that 496 spaces (1,772 - 1,276) were not directly observed. Rich therefore applies the 50 percent occupancy to the



Figure 1 - Off-Street Parking Occupancy Adjustment

496 unobserved spaces to derive 249 "expected" additional spaces occupied. This correction and the corresponding percentage occupancy are demonstrated by **Figure 1**.

Combining the actually observed with the additional expected observed results in 890 "total expected observed" off-street spaces during this first observation period (9:00 am - 11:00 am). At the peak time (3:00 pm and 5:00 pm), 706 observed spaces are supplemented with 274 (55% of total not observed) for a total expected occupancy of 980 off-street parking spaces. This is demonstrated by **Figure 2** on the following page.





Figure 2 - Adjusted Off-Street Parking Occupancy

On-Street Parking

A similar methodology was followed for the on-street parking spaces where 97 percent of the total north side on-street supply was observed for occupancy. This resulted in a very small correction factor as demonstrated by **Figure 3**.

For the on-street spaces, the initial observation period had 282 occupied spaces directly observed with 9 expected additional occupied for a total of 291.

Combining the corrected offstreet parking occupancy with the corrected on-street parking occupancy results in **Figure 4** on the following page. This shows a peak need coinciding with the 3:00 pm to 5:00 pm observation period when 1,365 spaces would be expected to be occupied derived from 980 off-street spaces (corrected) plus 385 on-street spaces (corrected).



Figure 3 - Adjusted On-street Parking Occupancy



Combined On-Street and Off-Street Parking Occupancy



Figure 4 - Combined on and Off-Street Parking Occupancy

The observations noted above reflect the two-hour cycle. Rich is therefore using the mid-point of each cycle to establish the occupancy for each period. For example, the occupancy point for the 9:00 am to 11:00 am period is 10:00 am. For the 11:00 am -1:00 pm circuit, 12:00 noon is used. The Shared-use model Rich employs factors the parking demand for each hour. Therefore, the in-between hours 11:00, am, 1:00 pm etc.) are extrapolated by comparing two adjacent observations and using the midpoint between them. This is demonstrated by Figure 5. As the observations show, the peak occurred coincident with the 4:00 pm period (1,365 spaces) although it reaches very close to this (1,340 spaces) as early as 12:00 noon.



Figure 5 - Observed and Extrapolated Parking Occupancy



Parking Demand Model

The next step in the process is development of the parking demand model. Rich has developed a model based on the Urban Land Institute's *Shared Use Manual*. Shared Use assumes that spaces needed by one group can often be used by a different group with a complementary peak period. For example, the same parking spaces needed by office workers earlier in the day when they have their period of peak need can often be used by restaurant patrons who tend to peak during the early evening particularly if the spaces are public and not closed off by the land owner. The Shared Use model uses the land use square footage provided to Rich & Associates by the City via their Geographic Information System (GIS).

Land Use Data

The land use data provided by the City had the square footage (area) for each building within the defined study area. Rich then multiplied this value by the number of floors to get the building square footage. In most cases, the land uses noted in the GIS data table was applied to the building. However, based on Rich's field data collection, in a few cases the use may have changed since the use was last updated and therefore, Rich's updated data was applied. Rich applied two other changes. For the multi-family residential uses, the data was provided in square footage values where Rich's model uses dwelling units. We therefore divided the provided square footage by 640 (assumed size of apartment) to get the number of dwelling units. The model also uses hotel rooms for transient stay facilities (Hotels). Therefore, for such uses, Rich used internet sources to determine the number of hotel rooms.

Table 4 on the following page summarizes the land use values for the north side of downtown Flagstaff. The summary table shows that there is just over 1.1 million square feet of building area on the north side of downtown.

The largest component is the one-third of the total square footage devoted to various (City and County) government functions with the next largest components devoted to office, mixed-use and retail functions.



Table 4 – Land Use Summary Data - North

-													
Curre	ent Square	Footage	by Land L	Jse									
											Total Occupied		Total SF (includes
	Retail	Restaurant	Hotel	Residential ¹	Office	Mixed	Auto Service	Financial	Government	Assembly	SF	Vacant	Vacant
Block #													
23											0		0
24									64,718		64,718		64,718
25	16,098		25					1,935	13,037		31,070		31,070
26	19,285	3,010	17			10,098				18,002	50,395		50,395
27	41,165	14,611				52,866				-	108,642		108,642
28	13,793	25,449			17,386	35,891	19,705				112,224		112,224
29	16,877										16,877		16,877
30											0		0
31											0		0
32											0		0
33					36,956				43,401		80,357		80,357
34	1,780		42		56,202	27,842					85,824		85,824
35	36,204				41,616						77,820		77,820
36					57,567	18,436					76,003		76,003
37	7,408	2,486	110			7,899					17,793		17,793
38											0		0
39									71,066		71,066		71,066
40								20,726	9,616		30,342		30,342
41					5,312			43,275		4,232	52,819		52,819
42		3,713			16,646	15,714			5,740		41,813		41,813
43									103,738		103,738		103,738
44					15,409				24,729		40,138		40,138
A				10							0		0
В				15					41,571		41,571		41,571
н	2,280			3	4,357						6,637		6,637
1		9,369		13	3,520						12,889		12,889
Total	154,890	58,638	194	41	254,971	168,746	19,705	65,936	377,616	22,234	1,122,736	0	1,122,736





Final Report

Using Rich's parking demand model applied to the square footage values as shown in Table 4, the calculated parking needs were determined. Compiling the needs for all uses and adding them together results in the calculated line as shown in Figure 6. This shows that at the peak hour, the needs as calculated total 1,362± spaces which correlates well with the observed parking occupancy (1,365 spaces) at this same time as was shown in Figures 4 and 5. Similar correlations between the calculated demand and observed occupancy are shown at the other observation points.

Figure 6 - Calculated and Observed Parking Occupancy Comparison

The calculated parking demand as shown above reflects the parking under the shared-use model. However, different land uses typically peak at different times of the day. Applying the values determined for the individual land uses as used in the model shows the parking needs as shown in Figure 7. The figure shows how the government function (being such a large component of the downtown square footage) has a large demand component at about 600 spaces needed relatively early during the day but then begins a steady decline throughout the remainder of the



Figure 7 - Individual Land Use Parking Needs

day. The figure also shows how spaces needed by restaurant (dining) uses don't peak until later in the afternoon or early evening.





When the parking needed by each type of land use is added together into a composite total and showing the relative amount of parking needed by each land use type, **Figure 8** is developed. This shows how at the peak hour (3:00 pm – 4:00 pm) government uses still play a significant role but not quite as large as earlier in the day. By the time that the daily peak is occurring, government parking needs have a smaller impact as other uses (such as restaurant) plays a larger role.

Figure 8 - Compiled Parking Demand Individual Land Uses

With the parking demand model established that reasonably portrays the parking needs, Rich then applied the parking generation rates for each land use as determined for the peak hour (3:00 pm - 4:00 pm) to the square footage of each land use on each block. This is shown by **Table 5** on page 29.

Peak Hour Parking Demand (3:00 PM - 4:00 PM)

Based on the land use of each type on each block and using the calculated parking generation rates as determined for this peak hour, the calculated parking demand for each land use by block is determined. This is then compared against the parking supply on each block to derive a surplus or deficit figure. In total the model shows that the north side of Downtown Flagstaff has a gross surplus at peak time of 986± spaces. However, this figure is slightly misleading because it compares total parking demand against total parking supply. In reality, spaces controlled by a private business are typically not made available to patrons from adjoining blocks or businesses. As the parking supply data showed, only about 32 percent of the parking spaces on the north side of downtown are publicly available with the majority of parking spaces privately controlled.

Therefore, the "Net Surplus / Deficit" column in Table 5 discards surplus private parking spaces in order to demonstrate a truer condition of what patrons may experience. Although parking spaces may be available in a lot serving a government office or other private entity, signs will likely prohibit someone from parking there unless the patron's destination is that business, government office or other private entity. This netting out of spaces is accomplished by first applying the parking demand to any private supply on the block. If the private supply exceeds



the calculated parking demand, the surplus private spaces are discarded and the surplus is just the public spaces on that block. Instead, if the demand exceeds the private supply, any public spaces are added back to the available supply and the net surplus or deficit calculated. Using this methodology, the table shows that the 986± space gross surplus is reduced to just 184± spaces on the net basis. **Map 5** on page 30 shows the surplus or deficit by block. Two values are shown. The numerator reflects the surplus or deficit on the gross basis while the denominator shows the net basis. The magnitude of the surplus or deficit is demonstrated by the color coding which reflect the net basis values.


	Current Surplus / (Deficit) - Peak Daytime (3:00 PM - 4:00 PM) - Shared Use																			
																			Gross	Net
				1			Auto		Governme		Total				Private				Surplus /	Surplus /
	Retail	Restaurant	Hotel	Residential	Office	Mixed	Service	Financial	nt	Assembly	Demand	Pu	ublic Parking	5	Parking		Total		(Deficit)	(Deficit)
			-	Parking	Generat	ion Rate	e (Sharea	l Use)	,			On-Street	Off-Street	Total	Off-Street	On-Street	Off-Street	Combined		
	0.95	4.13	0.59	0.73	1.00	1.04	0.61	0.53	0.93	0.00										
Block #																				
23	0	0	0	0	0	0	0	0	0	0	0	16	0	16	116	16	116	132	132	16
24	0	0	0	0	0	0	0	0	60	0	60	0	0	0	0	0	0	0	(60)	(60)
25	15	0	15	0	0	0	0	1	12	0	43	8	25	33	133	8	158	166	123	33
26	18	12	10	0	0	11	0	0	0	0	51	14	0	14	71	. 14	71	85	34	14
27	39	60	0	0	0	55	0	0	0	0	154	32	9	41	0	32	9	41	(113)	(113)
28	13	105	0	0	17	37	12	0	0	0	185	23	0	23	33	23	33	56	(129)	(129)
29	16	0	0	0	0	0	0	0	0	0	16	16	0	16	13	16	13	29	13	13
30	0	0	0	0	0	0	0	0	0	0	0	9	0	9	24	. 9	24	33	33	9
31	0	0	0	0	0	0	0	0	0	0	0	18	0	18	108	18	108	126	126	18
32	0	0	0	0	0	0	0	0	0	0	0	18	0	18	48	18	48	66	66	18
33	0	0	0	0	37	0	0	0	40	0	77	22	0	22	91	22	91	113	36	22
34	2	0	25	0	56	29	0	0	0	0	112	28	0	28	140	28	140	168	56	28
35	34	0	0	0	42	0	0	0	0	0	76	28	63	91	49	28	112	140	64	64
<mark>36</mark>	0	0	0	0	58	19	0	0	0	0	77	33	21	54	50	33	71	104	27	27
37	7	10	65	0	0	8	0	0	0	0	90	18	0	18	81	18	81	99	9	9
38	0	0	0	0	0	0	0	0	0	0	0	7	28	35	24	. 7	52	59	59	35
39	0	0	0	0	0	0	0	0	66	0	66	33	0	33	31	33	31	64	(2)	(2)
40	0	0	0	0	0	0	0	11	. 9	0	20	20	0	20	122	20	122	142	122	20
41	0	0	0	0	5	0	0	23	0	0	28	27	20	47	62	27	82	109	81	47
42	0	15	0	0	1/	16	0	0	5	0	54	28	0	28	106	28	106	134	80	28
43	0	0	0	0	15	0	0	0	90	0	90	21	0	35	1/	21	110	120	(40) 101	(40) 21
44 Δ	0	0	0	7	- 15	0	0	0	0	0		21	0	21	110	21	113	21	101	14
B	0	0	0	11	0	0	0	0	39	0	50	21	0	27	46	21	46	73	23	23
Н	2	0	0	2	4	0	0	0	0	0	9	27	0	27	19	27	19	46	37	27
1	0	39	0	9	4	0	0	0	0	0	52	10	0	10	54	10	54	64	12	10
322	0	0	0	0	0	0	0	0	0	0	0	11	0	11	0	11	0	11	11	11
400	0	0	0	0	0	0	0	0	0	0	0	9	0	9	0	9	0	9	9	9
411	0	0	0	0	0	0	0	0	0	0	0	10	0	10	0	10	0	10	10	10
422	0	0	0	0	0	0	0	0	0	0	0	9	0	9	50	9	50	59	59	9
Total	147	242	114	30	255	175	12	35	351	0	1,362	576	166	742	1,606	576	1,772	2,348	986	184

Table 5 – Overall Peak Hour Pking Demand vs. Parking Supply (Existing Conditions)



Final Report







2:	MAP Number:
ORTH STUDY AREA	
CURRENT	MAP 5
URPLUS/DEFICIT	Daga
k Hour 3:00-4:00PM	Page

Government Land Use Peak Hour (11:00 AM - 12:00 NOON)

Because of the considerable impact the various government functions have on total parking needs due to the significant square footage attributable to government functions and the high proportion of private parking, Rich is also demonstrating the parking needs at the apparent government peak hour of 11:00 am – 12:00 noon. As the occupancy data showed (Figure 4), the occupancy corrected for all spaces showed 1,340 spaces would be needed at this time. Using the parking generation rates for all land uses as calculated for the 11:00 am to 12:00 noon period results in a calculated parking needs. This slightly lower parking demand than the overall peak hour needs when compared against the 2,348 total space supply results in a slight increase in the "gross" surplus from 986 \pm spaces to 1,007 \pm spaces. However, when the surplus private spaces are discounted from the calculation, the "Net Surplus" actually decreases from 184 \pm spaces as determined at the overall peak hour (3:00 pm to 4:00 pm) to 118 \pm spaces at the government peak hour (11:00 am – 12:00 noon). The values for the individual blocks under this condition are shown by **Table 6** on the following page and **Map 6** on page 33.



Table 6 – Government Peak Hour Parking Demand vs. Supply Calculation (Existing Conditions)

		Curr	rent Si	urplus /	(Defic	;it) - Pe	ak Da	ytime	(11:00	AM - 2	12:00	Noon)	- Peak	Hour	Gove	rnmer	nt Nee	ds		
																			Gross	Net
							Auto		Governme		Total	_			Private				Surplus /	Surplus /
	Retail	Restaurant	Hotel	Residential	Office	Mixed	Service	Financial	nt	Assembly	Demand	P	ublic Parking	g	Parking		Total		(Deficit)	(Deficit)
				Parking	General	tion Rate	(Shared	(Use)	1			On-Street	Off-Street	Total	Off-Street	On-Street	Off-Street	Combined		
	0.90	2.75	0.14	0.73	0.64	1.10	0.46	0.61	1.55	0.00										
Block #														_	_		_			
23	0	0	0	0	0	0	0	0	0	0	0	16	0	16	116	16	116	132	132	16
24	0	0	0	0	0	0	0	0	100	0	100	0	0	0	0	0	0	0	(100)	(100)
25	14	0	4	0	0	0	0	1	20	0	39	8	25	33	133	8	158	166	127	33
26	17	8	2	0	0	11	0	0	0	0	39	14	0	14	71	. 14	71	85	46	14
27	37	40	0	0	0	58	0	0	0	0	135	32	9	41	0	32	9	41	(94)	(94)
28	12	70	0	0	11	39	9	0	0	0	142	23	0	23	33	23	33	56	(86)	(86)
29	15	0	0	0	0	0	0	0	0	0	15	16	0	16	13	16	13	29	14	14
30	0	0	0	0	0	0	0	0	0	0	0	9	0	9	24	. 9	24	33	33	9
31	0	0	0	0	0	0	0	0	0	0	0	18	0	18	108	18	108	126	126	18
32	0	0	0	0	0	0	0	0	0	0	0	18	0	18	48	18	48	66	66	18
33	0	0	0	0	24	. 0	0	0	67	0	91	22	0	22	91	. 22	91	113	22	22
34	2	0	6	0	36	31	0	0	0	0	74	28	0	28	140	28	140	168	94	28
35	33	0	0	0	27	0	0	0	0	0	59	28	63	91	49	28	112	140	81	81
36	0	0	0	0	37	20	0	0	0	0	57	33	21	54	50	33	71	104	47	47
37	7	7	15	0	0	9	0	0	0	0	38	18	0	18	81	. 18	81	99	61	18
38	0	0	0	0	0	0	0	0	0	0	0	7	28	35	24	. 7	52	59	59	35
39	0	0	0	0	0	0	0	0	110	0	110	33	0	33	31	. 33	31	64	(46)	(46)
40	0	0	0	0	0	0	0	13	15	0	28	20	0	20	122	20	122	142	114	20
41	0	0	0	0	3	0	0	26	0	0	30	27	20	47	62	. 27	82	109	79	47
42	0	10	0	0	11	17	0	0	9	0	47	28	0	28	106	28	106	134	87	28
43	0	0	0	0	0	0	0	0	161	0	161	33	0	33	17	33	17	50	(111)	(111)
44	0	0	0	0		0	0	0	38	0	48	21	0	21	118	21	118	139	91	21
A	0	0		/	0	0	0	0	64	0	75	21	0	21	16	21	0	21	(2)	(2)
В	2	0				0	0	0	04	0	73	27	0	27	40	27	40	73 46	39	27
	0	26	0	9	2	0	0	0	0	0	38	10	0	10	54	10	54	40 64	26	10
322	0	0	0	0	0	0	0	0	0	0	0	10	0	11	0	10	0	11	11	11
400	0	0	0	0	0	0	0	0	0	0	0	9	0	9	0	9	0	9	9	9
411	0	0	0	0	0	0	0	0	0	0	0	10	0	10	0	10	0	10	10	10
422	0	0	0	0	0	0	0	0	0	0	0	9	0	9	50	9	50	59	59	9
Total	139	161	27	30	163	186	9	40	585	0	1,341	576	166	742	1,606	576	1,772	2,348	1,007	118









MAP Number:
MAP 6
Page

Alternative Demand Scenarios

The analysis developed and just shown has been based on the observed data from Thursday August 2, 2018. Although this was during the summer tourist season, the volume of parking will likely vary with some days higher and others lower. It is undetermined whether the one survey day is actually a good peak day for planning purposes. Therefore, Rich has also calculated the parking needs adjusting the observed day values by from five percent to fifteen percent higher needs using the overall peak hour values and then showing the needs using the government peak hour demand. The resulting gross and net surplus of spaces are summarized by **Table 7** below. The information is then detailed in **Tables 8** and **9** on the following two pages. For each set of tables, the total demand by block is shown, the public, private and total parking supply and the resulting gross and net deficits under each of the alternative adjustment factors of five, 10 or 15 percent higher values than observed.

	Ov (3	erall Peak H 8:00 - 4:00 PN	our ⁄I)	(Based o (11:00	on Gov't Pea AM - 12:00 N	k Hour Ioon)
				Peak		
Pct Change	Peak	Gross	Net	Demand	Gross	Net
Observation	Demand	Surplus /	Surplus /	(Unshared)	Surplus /	Surplus /
Day	(Shared)	(Deficit)	(Deficit)	+20%	(Deficit)	(Deficit)
0%	1,362	986	184	1,341	1007	118
5%	1,430	918	140	1,408	940	70
10%	1,499	849	93	1,475	873	23
15%	1,567	781	47	1,542	806	(25)

Table 7 - Surplus / Deficit Summary



Table 8 - Overall Peak Hour Demand Adjustments

	Pe	ak H	our @	9 +5%	'n			Pe	eak H	our @	¢ +10	%			Pe	eak H	our @	¢ +15	%	
					Gross	Net						Gross							Gross	
	Total	Public	Private	Total	Surplus /	Surplus /		Total	Public	Private	Total	Surplus /	Net Surplus		Total	Public	Private	Total	Surplus /	Net Surplus
	Demand	Supply	Supply	Supply	(Deficit)	(Deficit)		Demand	Supply	Supply	Supply	(Deficit)	/ (Deficit)		Demand	Supply	Supply	Supply	(Deficit)	/ (Deficit)
Block #							Block #							Block #						
23	0	16	116	132	132	16	23	0	16	116	132	132	16	23	0	16	116	132	132	16
24	63	0	0	0	(63)	(63)	24	66		0	0	(66)	(66)	24	69	0	0	0	(69)	(69)
25	45	33	133	166	121	33	25	48	33	133	166	118	33	25	50	33	133	166	116	33
26	54	14	71	85	31	14	26	56	14	71	85	29	14	26	59	14	71	85	26	14
27	162	41	0	41	(121)	(121)	27	170	41	0	41	(129)	(129)	27	178	41	0	41	(137)	(137)
28	194	23	33	56	(138)	(138)	28	203	23	33	56	(147)	(147)	28	213	23	33	56	(157)	(157)
29	17	16	13	29	12	12	29	18	16	13	29	11	11	29	18	16	13	29	11	11
30	0	9	24	33	33	9	30		0	24	33	33	9	30	0	9	24	33	33	9
31	0	18	108	126	126	18	31	0	18	108	126	126	18	31	0	18	108	126	126	18
32	0	18	48	66	66	18	32	0	18	48	66	66	18	32	0	18	48	66	66	18
32	<u></u> 81	22	91	113	32	22	32	85	22	91	113	28	22	32	89	22	91	113	24	22
34	117	22	140	168	51	22	34	123	22	140	168	45	22	34	128	22	140	168	40	22
35	80	91	49	140	60	60	35	84	91	49	140	56	56	35	87	91	49	100	53	53
36	81	54	50	104	23	23	36	84	54	50	104	20	20	36	88	54	50	104	16	16
37	95	18	81	99	4	4	37	99	18	81	99	(0)	(0)	37	104	18	81	99	(5)	(5)
38	0	35	24	59	59	35	38	0	35	24	59	59	35	38	0	35	24	59	59	35
39	69	33	31	64	(5)	(5)	39	73	33	31	64	(9)	(9)	39	76	33	31	64	(12)	(12)
40	21	20	122	142	121	20	40	22	20	122	142	120	20	40	23	20	122	142	119	20
41	30	47	62	109	79	47	41	31	47	62	109	78	47	41	32	47	62	109	77	47
42	56	28	106	134	78	28	42	59	28	106	134	75	28	42	62	28	106	134	72	28
43	101	33	17	50	(51)	(51)	43	106	33	17	50	(56)	(56)	43	111	33	17	50	(61)	(61)
44	40	21	118	139	99	21	44	42	21	118	139	97	21	44	44	21	118	139	95	21
A	8	21	0	21	13	13	 A	8	21	0	21	13	13	 A	8	21	0	21	13	13
В	52	27	40	/3	21	21	В	55	2/	40	/3	18	18	<u>В</u>	57	27	40	/3	10	10
H	54	10	54	40	37	10	н	10	10	19	40	30	2/	H	10	10	54	40	50	5
322		11	- 14	11	10	11	322	0	11)4 0	11	11	11	322	39	11		11	11	11
400	0	9	0	9	9	9	400	0	9	0	9	9	9	400	0	9	0	9	9	9
411	0	10	0	10	10	10	411	0	10	0	10	10	10	411	0	10	0	10	10	10
422	0	9	50	59	59	9	422	0	9	50	59	59	9	422	0	9	50	59	59	9
Total	1.430	742	1,606	2.348	918	140	Total	1,499	742	1.606	2.348	849	93	Total	1.567	742	1.606	2.348	781	47



Table 9 - Government Peak Hour Demand Adjustments

G	overnn	nent	Peak	Hour	@ +5%	6	G	overnr	nent	Peak	Hour	@ +10%	%	G	iovernn	nent	Peak	Hour	@ +15%	%
	Total Demand	Public Supply	Private Supply	Total Supply	Gross Surplus / <mark>(Deficit)</mark>	Net Surplus / (Deficit)		Total Demand	Public Supply	Private Supply	Total Supply	Gross Surplus / <mark>(Deficit)</mark>	Net Surplus / (Deficit)		Total Demand	Public Supply	Private Supply	Total Supply	Gross Surplus / <mark>(Deficit)</mark>	Net Surplus / (Deficit)
Block #							 Block #							Block #						
23	0	16	116	132	132	16	23	0	16	116	132	132	16	23	0	16	116	132	132	16
24	105	0	0	0	(105)	(105)	24	110	0	0	0	(110)	(110)	24	115	0	0	0	(115)	(115)
25	41	33	133	166	125	33	25	43	33	133	166	123	33	25	45	33	133	166	121	33
26	41	14	71	85	44	14	26	43	14	71	85	42	14	26	45	14	71	85	40	14
27	142	41	0	41	(101)	(101)	27	149	41	0	41	(108)	(108)	27	156	41	0	41	(115)	(115)
28	149	23	33	56	(93)	(93)	28	156	23	33	56	(100)	(100)	28	163	23	33	56	(107)	(107)
29	16	16	13	29	13	13	29	17	16	13	29	12	12	29	17	16	13	29	12	12
30	0	9	24	33	33	9	30	0	9	24	33	33	9	30	0	9	24	33	33	9
31	0	18	108	126	126	18	31	0	18	108	126	126	18	31	0	18	108	126	126	18
32	0	18	48	66	66	18	32	0	18	48	66	66	18	32	0	18	48	66	66	18
33	95	22	91	113	18	18	33	100	22	91	113	13	13	33	105	22	91	113	8	8
34	78	28	140	168	90	28	34	81	28	140	168	87	28	34	85		140	168	83	28
35	62	91	49	140	78	78	35	65	91	49	140	75	75	35	68	91	49	140	72	72
36	60	54	50	104	44	44	36	63	54	50	104	41	41	36	66	54	50	104	38	38
37	39	18	81	99	60	18	37	41	18	81	99	58	18	37	43	18	81	99	56	18
38	0	35	24	59	59	35	38	0	35	24	59	59	35	38	0	35	24	59	59	35
39	116	33	31	64	(52)	(52)	39	121	33	31	64	(57)	(57)	39	127	33	31	64	(63)	(63)
40	29	20	122	142	113	20	40	30	20	122	142	112	20	40	32	20	122	142	110	20
41	31	47	62	109	78	47	41	33	47	62	109	76	47	41	34	47	62	109	75	47
42	49	28	106	134	85	28	42	52	28	106	134	82	28	42	54	28	106	134	80	28
43	169	33	17	50	(119)	(119)	43	177	33	17	50	(127)	(127)	43	185	33	17	50	(135)	(135)
44	51	21	118	139	88	21	44	53	21	118	139	86	21	44	55	21	118	139	84	21
A	8	21	0	21	13	13	A	8	21	0	21	13	13	A	8	21	0	21	13	13
В	79	27	46	73	(6)	(6)	В	83	27	46	73	(10)	(10)	В	87	27	46	73	(14)	(14)
н	7	27	19	46	39	27	Н	8	27	19	46	38	27	Н	8	27	19	46	38	27
1	39	10	54	64	25	10	1	41	10	54	64	23	10	1	43	10	54	64	21	10
322	0	11	0	11	11	11	322	0	11	0	11	11	11	322	0	11	0	11	11	11
400	0	9	0	9	9	9	400	0	9	0	9	9	9	400	0	9	0	9	9	9
411	0	10	0	10	10	10	 411	0	10	0	10	10	10	 411	0	10	0	10	10	10
422	0	9	50	59	59	9	422	0	9	50	59	59	9	422	0	9	50	59	59	9
Total	1,408	742	1,606	2,348	940	70	Total	1,475	742	1,606	2,348	873	23	Total	1,542	742	1,606	2,348	806	(25)



Public Parking Needed

The parking supply data has shown that 68 percent of the north side parking capacity is in lots or garages controlled by private entities or government functions and therefore is intended for the staff, customers, visitors or residents of the owning or controlling entity. There are still many other shops, restaurants and other businesses that do not have their own parking and are therefore dependent on the publicly available on and off-street parking.

The data and tables discussed to this point have demonstrated the gross and net surplus of parking by block and developed to totals for the north side of downtown. **Table 8** has demonstrated that using the overall peak hour values that after discarding surplus private parking, even with values 15 percent higher than the observed day conditions, that downtown Flagstaff will still have a modest surplus of parking.

Using the demand at the government peak hour, values five percent higher than the observed conditions would still show about 70 "net" surplus spaces. At 10 percent higher values this is reduced to just 23 net surplus spaces and would be a 25-space deficit using values 15 percent higher than the conditions encountered on the survey date.

One other question asked to be addressed by the City is the impact on public parking supply following parking industry standards for surplus capacity to be provided. Industry standards generally recommend maintaining 15 percent of spaces vacant to facilitate someone being able to find a space without circling blocks or traveling from lot to lot. Lower levels of vacancy (10 percent to perhaps as low as just five percent) are possible but would have a consequent impact on user convenience.

Following the same methodology as demonstrated in the previous tables where demand is first applied against private supply on each block and then any excessive demand applied to public parking needs, **Tables 10** and **11** have been prepared. These tables show under each of the alternative conditions (observed day through plus 15 percent higher values) that demand on each block is first applied to the private supply. Any demand that cannot be accommodated by the private supply on that block is therefore shown as needing public parking. This value simply shows the number of public spaces needed even if it exceeds the public capacity on that block.

Compiling all blocks develops down to a total public parking supply needed. This total public needed is then compared against the total available supply and the additional number of public parking spaces needed or in excess of the recommended 85 percent occupancy (15 percent) vacant calculated. The tables also demonstrate the requirements at just 10 percent and five percent vacancy rates.



	(Observ	vation	Day				Ob	serva	tion D	ay + 5%				Ob	servat	tion D	<mark>ay + 10%</mark>				Ob	servat	tion D	ay + 15%	
	Total Demand	Public Parking	Private Parking	Α	В			Total Demand	Public Parking	Private Parking	Α	В			Total Demand	Public Parking	Private Parking	Α	В			Total Demand	Public Parking	Private Parking	Α	В
Block #				Number of Cars Parked in Private Spots	Number of Cars Parked in Public Spots		Block #				Number of Cars Parked in Private Spots	Number of Cars Parked in Public Spots		Block #	ł			Number of Cars Parked in Private Spots	Number of Cars Parked in Public Spots		Block #				Number of Cars Parked in Private Spots	Number of Cars Parked in Public Spots
23	0	16	116	0	0		23	0	16	116	0	0		23	0	16	116	0	0		23	0	16	116	0	0
24	60	0	0	0	60		24	63	0	0	0	63		24	66	0	0	0	66		24	69	0	0	0	69
25	43	33	133	43	0		25	45	33	133	45	0		25	48	33	133	48	0		25	50	33	133	50	0
26	51	14	71	51	0		26	54	14	71	54	0		26	56	14	71	56	0		26	59	14	71	59	0
27	154	41	0	0	154		27	162	41	0	0	162		27	170	41	0	0	170		27	178	41	0	0	178
28	185	23	33	33	152		28	194	23	33	33	161		28	203	23	33	33	170		28	213	23	33	33	180
29	16	16	13	13	3		29	17	16	13	13	4		29	18	16	13	13	5		29	18	16	13	13	5
30	0	9	24	0	0		30	0	9	24	0	0		30	0	9	24	0	0		30	0	9	24	0	0
31	0	18	108	0	0		31	0	18	108	0	0		31	0	18	108	0	0		31	0	18	108	0	0
32	0	18	48	0	0		32	0	18	48	0	0		32	0	18	48	0	0		32	0	18	48	0	0
33	77	22	91	77	0		33	81	22	91	81	0		33	85	22	91	85	0		33	89	22	91	89	0
34	112	28	140	112	0		34	117	28	140	117	0		34	123	28	140	123	0		34	128	28	140	128	0
35	76	91	49	49	27		35	80	91	49	49	31		35	84	91	49	49	35		35	87	91	49	49	38
36	77	54	50	50	27		36	81	54	50	50	31		36	84	54	50	50	34		36	88	54	50	50	38
37	90	18	81	81	9		37	95	18	81	81	14		37	99	18	81	81	18		37	104	18	81	81	23
38	0	35	24	0	0		38	0	35	24	0	0		38	0	35	24	0	0		38	0	35	24	0	0
39	66 20	33	31	31	35		39	69 21	33	31	31	38		39	73	33	31	31	42		39	76	33	31	31	45
40	20	20	62	20	0		40	21	20 47	62	30	0		40	31	20 47	62	22	0		40	23	20	62	23	0
41	20 54	-47	106	54	0		41	56	28	106	56	0		41	59	28	106	59	0		41	62	28	106	62	0
43	96	33	100	17	79		43	101	33	100	17	84		43	106	33	17	17	89		43	111	33	100	17	94
44	38	21	118	38	0		44	40	21	118	40	0		44	42	21	118	42	0		44	44	21	118	44	0
A	7	21	0	0	7		Α	8	21	0	0	8		Α	8	21	0	0	8		Α	8	21	0	0	8
В	50	27	46	46	4		В	52	27	46	46	6		В	55	27	46	46	9		В	57	27	46	46	11
н	9	27	19	9	0		Н	9	27	19	9	0		Н	10	27	19	10	0		Н	10	27	19	10	0
	52	10	54	52	0			54	10	54	54	0			57	10	54	54	3			59	10	54	54	5
322	0	11	0	0	0		322	0	11	0	0	0		322	0	11	0	0	0		322	0	11	0	0	0
400	0	9	0	0	0		400	0	9	0	0	0		400	0	9	0	0	0	-	400	0	9	0	0	0
422	0	9	50	0	0		422	0	9	50	0	0		422	0	9	50	0	0		422	0	9	50	0	0
Total	1.362	742	1.606	804	558		Total	1.430	742	1.606	827	603		Total	1,499	742	1,606	850	649		Total	1.567	742	1.606	871	696
Pe	rcentage	Occupa	ncy	50.1%	75.2%		Pe	centage	Occupa	ncy	51.5%	81.3%		Pe	rcentage	Occupa	ncy	52.9%	S 649 Total 1,567 742 1,606 871 1% 87.4% Percentage Occupancy 54.2% 1					93.8%		
Number o	Number of Public Spaces to Add for Max 85% Occupancy						Number	of Public Sp	aces to Ad	d for Max	85% Occupancy	-32		Number	of Public Sp	aces to Ad	d for Max	85% Occupancy	21		Number o	f Public Sp	paces to Ad	d for Max	85% Occupancy	76
Public Ca	Public Capacity with -85 Added Spaces = 657						Public Ca	pacity with	-32 Added	Spaces = 7	/10	85.0%		Public Ca	pacity with	21 Added	Spaces = 7	63	85.0%		Public Cap	oacity with	76 Added	Spaces = 8	18	85.0%
Number	Number of Public Spaces to Add for Max 90% Occupancy						Number	of Public Sp	ares to Ad	d for May		-72		Number	of Public Se	ares to Ad	d for May		-21		Numbero	f Public Sr	naces to Ad	d for May		21
Public Ca	pacity with	-122 Adder	d Spaces = 6	20	90.1%		Public Ca	pacity with	-72 Added	Spaces = f	50% Occupancy	-72		Public Ca	pacity with	-21 Added	Spaces = 7	721	-21		Public Car	acity with	31 Added	Spaces = 7	73	90.0%
	,				50.1/0			,											50.070							
Number o	of Public Sp	aces to Ad	d for Max 9	5% Occupancy	-154		Number	of Public Sp	aces to Ad	d for Max	95% Occupancy	-107		Number	of Public Sp	aces to Ad	d for Max	95% Occupancy	-59		Number o	f Public Sp	paces to Ad	d for Max	95% Occupancy	-10
Public Ca	bacity with	-154 Addeo	d Spaces = 5	88	95.0%		Public Ca	bacity with	-107 Adde	d Spaces =	635	95.0%		Public Ca	, pacity with	-59 Added	Spaces = 6	683	95.0%		Public Cap	bacity with	-10 Added	Spaces = 7	/32	95.0%

Table 10 - Public Parking Needs – Overall Peak Hour Alternative Factors



Table 11 - Public Parking Needs – Government Peak Hour Alternative Factors

		Obser	vation	Day			O	oserva	ntion D	Day + 5%			Ob	servat	tion D	ay + 10%			0	bserv	ation D	ay + 15%	
	Tota Demand	Public Parking	Private Parking	Α	В		Tota Demand	Public Parking	Private Parking	Α	В		Total Demand	Public Parking	Private Parking	Α	В		To Dema	nd Parking	Private Parking	Α	В
Block #				Number of Cars Parked in Private Spots	Number of Cars Parked in Public Spots	Block	#			Number of Cars Parked in Private Spots	Number of Cars Parked in Public Spots	Block	+			Number of Cars Parked in Private Spots	Number of Cars Parked in Public Spots	Bloc	k#			Number of Cars Parked in Private Spots	Number of Cars Parked in Public Spots
23	0	16	116	0	0	23	0	16	115	0	0	23	0	16	116	0	0	23	0	16	116	D	0
24	100	0	0	0	100	24	105	0	0	0	105	24	110	0	0	0	110	24	115	0	0	0	115
25	39	33	133	39	0	25	41	33	133	41	0	25	43	33	133	43	0	25	45	33	133	45	0
26	39	14	71	39	0	26	41	14	71	41	0	26	43	14	71	43	0	26	45	14	71	45	0
27	135	41	0	0	135	27	142	41	0	0	142	27	149	41	0	0	149	27	156	41	0	0	156
28	142	23	33	33	109	28	149	23	33	33	116	28	156	23	33	33	123	28	163	23	33	33	130
29	15	16	13	13	2	29	16	16	13	13	3	29	17	16	13	13	4	29	17	16	13	13	4
30	0	9	24	0	0	30	0	9	24	0	0	30	0	9	24	0	0	30	0	9	24	0	0
31	0	18	108	0	0	31	0	18	108	0	0	31	0	18	108	0	0	31	0	18	108	0	0
32	0	18	48	0	0	32	0	18	48	0	0	32	0	18	48	0	0	32	0	18	48	0	0
33	91	22	91	91	0	33	95	22	91	91	4	33	100	22	91	91	9	33	105	22	91	91	14
34	74	28	140	74	0	34	78	28	140	78	0	34	81	28	140	81	0	34	85	28	140	85	0
35	59	91	49	49	10	35	62	91	49	49	13	35	65	91	49	49	16	35	68	91	49	49	19
36	57	54	50	50	7	36	60	54	50	50	10	36	63	54	50	50	13	36	66	54	50	50	16
37	38	18	81	38	0	37	39	18	81	39	0	37	41	18	81	41	0	37	43	18	81	43	0
30	110	33	24	31	70	28	116	22	24	31	85	90	121	35	24	31	90	30	127	33	24	31	0
40	28	20	122	28	0	40	29	20	122	29	0	40	30	20	122	30	0	40	32	20	122	32	0
41	30	47	62	30	0	41	31	47	62	31	0	41	33	47	62	33	0	41	34	47	62	34	0
42	47	28	106	47	0	42	49	28	105	49	0	42	52	28	106	52	0	42	54	28	106	54	0
43	161	33	17	17	144	43	169	33	17	17	152	43	177	33	17	17	160	43	185	33	17	17	168
44	48	21	118	48	0	44	51	21	118	51	0	44	53	21	118	53	0	44	55	21	118	55	0
A	7	21	0	0	7	A	8	21	0	0	8	A	8	21	0	0	8	A	8	21	0	0	8
B	75	27	46	46	29	B	79	27	46	46	33	8	83	27	46	46	3/	8	87	27	46	46	41
H	38	10	54	38	0	H I	39	10	54	20	0	n 1	A1	10	54	8 81	0 D		43	10	54	42	0
322	0	11	0	0	0	30	2 0	11	0	0	0	322	2 0	11	0	0	0		22 0	11	0	0	0
400	0	9	0	0	0	40	0 0	9	0	0	0	400	0 0	9	0	0	0		0 004	9	0	0	0
411	0	10	0	0	0	4	1 0	10	0	0	0	411	0	10	0	0	0		11 0	10	0	0	0
422	0	9	50	0	0	42	2 0	9	50	0	0	422	2 0	9	50	0	0		22 0	9	50	0	0
Total	1,341	742	1,606	718	623	Total	1,408	742	1,606	735	673	Total	1,475	742	1,606	755	720	Tota	1,54	2 742	1,606	774	768
Pe	rcentag	e Occupa	ncy	44.7%	84.0%	P	rcentage	2 Occupa	incy	45.8%	90.7%	Pe	rcentage	Occupa	ncy	47.0%	97.1%		ercenta	ge Occup	ancy	48.2%	103.5%
Numbero	f Public S	paces to Ad	d for Max 8	5% Occupancy	-9	Number	of Public Sp	paces to Ac	d for Max	85% Occupancy	50	Number	of Public Sp	aces to Ad	d for Max	85% Occupancy	105	Numb	er of Public	Spaces to A	dd for Max	85% Occupancy	162
Public Cap	bacity with	-9 Added	Spaces = 73	3	85.0%	Public C	apacity with	50 Added	Spaces = 7	92	85.0%	Public Ca	pacity with	105 Adde	d Spaces = 1	847	85,0%	Public	Capacity w	th 162 Add	ed Spaces =	904	85,0%
Number o	T Public S	paces to Ad	d for Max 9	0% Occupancy	-50	Rubble	of Public S	aces to Ac	id for Max	90% Occupancy	6	Rublin	of PublicSp	se added	d for Max	90% Occupancy	58	Numb	For Public	spaces to /	dd for Max	0% Occupancy	112
Public Lap	acity with	-SUAdded	opaces = 6	26	90.0%	Public C	shacit A mitt	o Added 5	paces = /4	٥	90,0%	Public Ca	pacity with	30 Added	opaces = 8		90.0%	Public	capacity w	ul 112 Add	eu opaces =		90.0%
Numbero	f Public S	paces to Ad	d for Max 9	5% Occupancy	-86	Number	of Public St	aces to Ad	d for Max	95% Occupancy	-33	Number	of Public Sp	aces to Ad	d for Max	95% Occupancy	16	Numb	of Public	Spaces to A	dd for Max	95% Occupancy	67
Public Cap	acity with	-86 Added	Spaces = 6	56	95.0%	Public C	apacity with	-33 Added	Spaces =	709	94.9%	Public Ca	pacity with	16 Added	Spaces = 7	58	95.0%	Public	Capacity w	th 67 Adde	d Spaces = 8	9	95.0%



Table 12 below summarizes the information contained in the previous two tables for easier comparison. The table shows that at the overall peak hour (3:00 pm - 4:00 pm) that even at plus 5 percent higher values, the proportion of public spaces occupied is only about 81 percent. However, at this same adjustment, using the values at the government peak (11:00 am - 12:00 noon), that the calculated occupancy of public parking would be nearly 91 percent of the spaces occupied and about 50 additional publicly designated spaces are needed in order to maintain an 85 percent maximum occupancy of the public supply.

Table 12 - Public Parking Needed Summary

		Observed	Observed	Observed
	Observed	Dou	Observed	Observed
	Observed		Day	
	Day Values	Values(+5%)	Values(+10%)	Values(+15%)
Overall Peak Hour (3:00 - 4:00 pm)				
Peak Demand	1,362	1,430	1,499	1,567
Private Spaces Parked	804	827	850	871
Public Spaces Parking	558	603	649	696
% of Public Spaces Occupied	75.2%	81.3%	87.5%	93.8%
Additional Public Spaces Needed				
For Maximum of 85% Occupancy	(85)	(32)	21	76
For Maximum of 90% Occupancy	(122)	(72)	(21)	31
For Maximum of 95% Occupancy	(154)	(107)	(59)	(10)
Government Peak Hour (11:00 - 12:00 noon)				
Peak Demand	1,341	1,408	1,475	1,542
Private Spaces Parked	718	735	755	774
Public Spaces Parking	623	673	720	768
% of Public Spaces Occupied	84.0%	90.7%	97.0%	103.5%
Additional Public Spaces Needed				
For Maximum of 85% Occupancy	(9)	50	105	162
For Maximum of 90% Occupancy	(50)	6	58	112
For Maximum of 95% Occupancy	(86)	(33)	16	67



Summary – North Side

The north side of downtown Flagstaff is characterized by a significant number of various City and County offices and functions as well as a high proportion of the parking supply classified as privately controlled. This has the potential to have a significant impact on user's perceptions of parking availability because very often the private supply is signed as restricted only for the use of customers, visitors or staff of the owning or controlling entity.

While the overall peak need for downtown occurs between about 3:00 and 4:00 pm, the government uses have a significant impact on parking needs and these peak needs occur between about 11:00 am and 12:00 noon. At this time, the total demand is only slightly less than the overall peak but the government functions have much greater impact.

On the observed day the downtown would have a gross surplus of about $990\pm$ spaces. However, because this figure includes private supply that may not be available, deducting surplus private parking from the calculation reduces this surplus to 184 spaces. Using values corresponding to the peak hour experienced by the various government functions (11:00 am – 12:00 noon), the total demand at this time is slightly lower (1,341 at this time vs. 1,362 at the overall peak). This means that the gross surplus of total demand minus total supply increases slightly to 1,007 spaces but the impact after deducting surplus private parking means the net surplus is reduced from 184 spaces at the overall peak to just 118 spaces at this peak time even though the demand is slightly less.

Using adjustments to the demand to project conditions assuming that the observed day was not the most appropriate planning day, the demand using the government peak hour shows that using just a five percent increase in the calculated demand to account for a slightly busier day, approximately 50 additional public spaces should be provided in order to maintain a parking supply where about 15 percent of public spaces remain vacant in order to facilitate someone being able to easily find parking. Assuming that the observed day values should be increased by 10 percent, then just over 100 additional public spaces should be added and as many as 160± additional public spaces are needed if it is determined that planning day values should be 15 percent higher than the observed day conditions.



Section 3 – South Side Neighborhood Analysis

The parking needs for the blocks south of Route 66 have also been analyzed as part of this parking study update. The south side has different characteristics compared to the north with less of a presence by government offices and functions and instead exhibits a more diverse compilation of commercial enterprises including retail, restaurant, mixed-use and residential.

The methodology employed for analyzing the parking needs included the collection of parking supply data and land use information provided via the City's GIS system supported by field data collected by Rich & Associates staff. This information is used with the parking demand model to be discussed. As with the north side analysis, a critical component is the occupancy study completed on August 2, 2018 for both north and south downtown which provides a benchmark to which the demand calculated by the demand model can be compared.

Parking Inventory

Table 13 below summarizes the parking inventory recorded for south side neighborhoods. The table shows that the total parking supply is 1,509 spaces which is virtually evenly split 50/50 between the parking supply that is publicly available (764 spaces / 51%) to the 745 spaces or 49 percent privately controlled. This meets Rich's best practice that at least 50 percent of the parking be publicly available in order to foster a more walkable environment where a patron can park once and visit multiple destination. This level of public parking suggests that there may be a greater opportunity for shared use on the south side than experienced or possible on the north side of downtown.

The detailed off-street and on-street parking supply is shown by **Tables 14** and **15** on pages 43 through 47 and by **Map 7** on page 48

South Side of Dow	ntown					
	Pu	blic	Priv	/ate	То	tal
On-Street	462	100.0%	0	0.0%	462	30.6%
Off-Street	302	28.8%	745	71.2%	1,047	69.4%
Total	764	50.6%	745	49.4%	1,509	100.0%

Table 13 - South Side Parking Supply Summary



				Private				Public / Private		
Block	Revised Map	Description	Off-Street	Barrier	EX Permit	Pay-to-	Public General (Free/ Time Limited)	Pay-to- park EX Exempt	Barrier	Total
1	Δ	Knights Inn	30	1	0		0	0	0	Total
-	B	Auto Benair	10	0	0	0	0	0	0	
		Block Total	49	1	0	0	0	0	0	50
2	C	American Valet Lot	0	0	0	32	0	0	0	
-	D	Hone Pregnancy Center	5	0	0	0	0	0	0	
	F	Our Lady of Guadalupe	5	3	Ű					
	-	Block Total	10	3	0	32	0	0	0	45
3			No Off-St Su	innly			Ŭ	, v		.0
		Block Total	0		0	0	0	0	0	0
4	F	Elagstaff Christian Fellowshin	40	0	0	0	0	0	0	0
	G	Ponderosa Ants	+0 22	0	0	0	0	0	0	
	J	Block Total	62	0	0	0	0	0	0	67
E	Ц	Santa Eo Poplity	12	0	0	0	0	0	0	02
5		Climbing Contor	15	1	0	0	0	0	0	
	1	Block Total	20	1	0	0	0	0	0	20
6		McGaughs Craft Poor	29	1	0	0	0	0	0	
0	R I	116 E Butler Ave	12	0	0	0	0	0	0	
		Sacred Mountain/Tai Chi	6	0	0	0	0	0	0	
	E	Block Total	21	1	0	0	0	0	0	22
7	N.4	Amorican Valot Lot	0		0	20	0	0	1	22
	N		7	0	0		0	0	0	
	0	101 S Agassiz St	7	0	0	0	0	0	0	
	D	1015 Agassiz St.	/	0	0	0	0	0	0	
	1	Block Total	18	0	0	20	0	0	1	30
Q	0		5	0	0	20	0	0	0	- 39
0	R	Tenant		0	0	0	0	0	0	
	IX.	Block Total	ب ۵	0	0	0	0	0	0	٩
0	c	Pay's Parbar Shop Etc	20	1	0	0	0	0	0	
5	 т	Ray's barber Shop Etc.	20	0	0	0	0	0	0	
		7 W Cottage Ave	6	0	0	0	0	0	0	
	5	Block Total	32	1	0	0	0	0	0	32
10	V	Christian Fellowshin	6	2	0	0	0	0	0	
10	v	Block Total	6	2	0	0	0	0	0	8
11	\٨/	Agassiz Landscane Group	R R	0	0	0	0	0	0	0
	v	Interactive Humanics inc	2	0	0	0	0	0	0	
	× v	Ants	5 16	0	0	0	0	0	0	
	1	Block Total	27	0	0	0	0	0	0	27
12	7	Mother Road Brewing	7	0	0	0	0	0	0	21
- 12	ΔΔ	Ruff's	, Q	1	0	0	0	0	0	L
		Brake's Masters	7	0	0	0	0	0	0	ļ
	AC	Arizona Mortgage Prof	, 5	0	0	0	0	0	0	
	AD	VP Fuel	6	1	0	0	0	0	0	
	AE	218 Milton Road	17	0	0	0	0	0	0	
		Block Total	51	2	0	0	0	0	0	53



				Private		Public				
							Off-Str	eet		
Block	Revised Map Letter	Description	Off-Street	Barrier Free	FX Permit	Pay-to- park	Public General (Free/ Time Limited)	Pay-to- park EX Exempt	Barrier Free	Total
13	AF	Los & Las	13	0	0	0	0	0	0	
	AG	Flag Tee Factory	9	0	0	0	0	0	0	
	AH	Rehab Services Etc.	16	2	0	0	0	0	0	
-	AI	The Cottage	5	0	0	0	0	0	0	
	AJ	Burly Fish Tattoo & Piercing	70	3	0	0	0	0	0	
		Block Total	113	5	0	0	0	0	0	118
14	AK	Gated Lot	16	0	0	0	0	0	0	
	AL	DuBeau Hostel	17	2	0	0	0	0	0	
	AM	Apts.	10	0	0	0	0	0	0	
	AN	7 W Phoenix Ave.	10	0	0	0	0	0	0	
		Block Total	53	2	0	0	0	0	0	55
15	AO	Hotel Sierra Vista	20	0	0	0	0	0	0	
-	AP	Morning Dew Landscaping	4	1	0	0	0	0	0	
	AQ	Grand Canyon Int'l Hostel	8	0	0	0	0	0	0	
	AR	1/E Phoenix Ave	15	0	0	0	0	0	0	
	AS		22	0	0	0	0	0	0	70
46		Block lotal	69	1	0	0	0	0	0	/0
16	AI	Lot	11	0	0	0	0	0	0	
16	AU	Gravel Corner Lot	50	0	0	0	0	0	0	
47			61	0	0	0	0	0	0	61
1/	AV3	Bus Station Lot	3	0	0	•	0	//	5	
	AV2	Pay to Park Lot	0	0	0	0	0	44	1	
	AV1		0	0	0	22	0	101	2	45.4
10	A 14/		3	0	0	22	0	121	8	154
18	AW	Altitude Bar	48	1	0	0	0	0	0	
		By Lumberyard Brewing	10	0	0	45	0	0	4	
	A 1 A 7		01			2				
	AL	Plack Total	66	1	0	10	0	0	1	110
10	DA		11	1	0	40	0	0	4	119
19	DD DD		11	0	0	0	0	0	0	
	DD	Plack Total	22	0	0	0	0	0	0	22
20	RC.	Old Train Station	12	0	0	0	0	0	0	22
20		Block Total	12	0	0	0	0	0	0	12
21	RD	Train Station (East)	13	0	0	25	0	4	2	15
	BE	Train Station (West)		0		12	0	4	2	
		Block Total	0	0	0	37	0	Δ	5	46
22	PE	Chamber of Commorco	11	0	0		0	4	0	
	ыг	Block Total	11	0	0	0	0	0	0	11
			11	0	0	0	0	0	0	11
		Total South Side	725	20	0	159	0	125	18	1.047
				745			302			_,,

Table 14 - Off-Street Parking Supply Detail (South Side, Continued)



Block	Block Face	Metered	2 Hour	15 Minute Parking	Marked-No Limit Day	Unmarked-No Limit						
1	A				6							
	В	0	0	0	0	8						
	С			No P	arking							
	D	5	0	0	0	0						
TOTAL	19	5	0	0	6	8						
2	A	0	13	0	0	0						
	В	0	0	0	0	6						
	С			No P	arking	, , , , , , , , , , , , , , , , , , ,						
	D	0	0	0		6						
ΤΟΤΑΙ	25	0	13	0	0	12						
3	25 A	0	8	0	0	12						
	B	<u> </u>	No Parking									
	C			No P	arking							
	D		No Parking									
TOTAL	8	0	8	0	0	0						
4	A	0	5	0	0	0						
	В	0	0	0	0	10						
	С			No P	arking							
	D	2	0	0	0	0						
TOTAL	17	2	5	0	0	10						
5	A	0	0	0	0	12						
	В	4	0	0	0	0						
	C			No P	arking							
	D	0	0	0	0	6						
TOTAL	22	4	0	0	0	18						
6	A	0	10	0	0	0						
	В	0	0	0	3	0						
	C			No Pa	arking							
	D	4	0	0	0	0						
TOTAL	17	4	10	0	3	0						
7	A	0	11	0	0	0						
	B	0	0	0	0	9						
		0	8	0	0	0						
τοται	25	7	19	0	0	0						

Table 15 - On-Street Parking Supply Detail (South Side)



Block	Block Face	Metered	2 Hour	15 Minute Parking	Marked-No Limit Day	Unmarked-No Limit
8	А	0	9	0	0	0
	В	8	0	0	0	0
	С	0	9	0	0	0
	D	0	0	0	3	0
TOTAL	29	8	18	0	3	0
9	Α	0	9	0	0	0
	В	0	0	0	0	7
	С	0	6	0	0	0
	D	5	0	0	0	0
TOTAL	27	5	15	0	0	7
10	А	0	4	0	0	0
	В			No P	arking	
	С	0	7	0	0	0
	D	0	0	0	0	6
TOTAL	17	0	11	0	0	6
11	А	0	6	0	0	0
	В	0	4	0	0	0
	С	0	8	0	0	0
	D	6	0	0	0	0
TOTAL	24	6	18	0	0	0
12	Α	0	0	0	0	6
	В	26	0	0	0	0
	С			No P	arking	
	D			No Blo	ck Face	
TOTAL	32	26	0	0	0	6
13	А	5	0	0	0	0
	В			No P	arking	
	С	0	9	0	0	0
	D	11	0	0	0	0
TOTAL	25	16	9	0	0	0
14	А	10	0	0	0	0
	В	0	0	0	0	7
	С	0	8	0	0	0
	D	7	0	0	0	0
TOTAL	32	17	8	0	0	7
15	А	12	0	0	0	0
	В	7	0	0	0	0
	С	0	9	0	0	0
	D	0	0	0	10	0
TOTAL	38	19	9	0	10	0

Table 15 - On-Street Parking Supply Detail (South Side, Continued)



Block	Block Face	Metered	2 Hour	15 Minute Parking	Marked-No Limit Day	Unmarked-No Limit				
16	A	10	0	0	0	0				
	В	0	0	0	0	11				
	С	0	10	0	0	0				
	D	8	0	0	0	0				
TOTAL	39	18	10	0	0	11				
17	А			No Blo	ock Face					
	В			No Pa	arking					
	С	10	0	0	0	6				
	D			No Pa	arking					
TOTAL	16	10	0	0	0	6				
18	A			No Blo	ock Face					
	В			No Pa	arking					
	С	26	0	0	0	0				
	D			No P	arking					
TOTAL	26	26	0	0	0	0				
19	А			No Blo	ock Face					
	В			No P	arking					
	C	14	0	0	0	0				
	D			No P	arking					
TOTAL	14	14	0	0	0	0				
20	A			No Pa	arking					
	В			No Pa	arking					
	C			No Blo	ock Face					
	D			No P	arking					
TOTAL	0	0	0	0	0	0				
21	A			No Pa	arking					
	В			No Pa	arking					
	C			No Blo	ock Face					
	D			No P	arking					
TOTAL	0	0	0	0	0	0				
22	A			No Pa	arking					
	В	No Parking								
	C			No Blo	ock Face					
	D		-	No P	arking					
TOTAL	0	0	0	0	0	0				
South Total	462	187	153	0	22	100				

Table 15 - On-Street Parking Supply Detail (South Side, Continued)







Occupancy Counts – South Side

Just as was performed for the blocks north of Route 66, Rich & Associates conducted occupancy counts for the south side neighborhood blocks. Although Table 13 shows a total of 462 on-street spaces, Rich is discounting 32 on-street spaces surrounding the new NAU construction on block 12. Therefore, for a total supply to be evaluated we are using 430 spaces. For the on-street parking, Rich was able to inventory approximately 88 percent (378) of the 430 total spaces. At peak time for the on-street parking (5:00 pm – 7:00 pm), 65 percent of the spaces were occupied.

For the off-street parking, Rich directly observed 668 of the 1,047 (64%) total spaces. Peak observed occupancy of the off-street parking occurred during the last circuit (7:00 pm - 9:00 pm) when 42 percent of the off-street spaces were occupied.



South Side On-Street and Off-Street Occupancy

Figure 9 - On and Off-Street Parking Occupancy



The parking occupancy counts when displayed on maps can provide a visual reference as how parking areas are being used. Rich prepares two maps to demonstrate the conditions. The first map (**Map 8**) shows the occupancy of each of the various parking areas as they were observed to be occupied coinciding with the peak hour which in the case of the south side was between 5:00 pm and 7:00 pm. This map shows many of the available on-street spaces, particularly north of Benton Avenue as being full or very nearly full (> 85 percent).

For the off-street supply, the public lot adjacent the lumberyard off of San Francisco Street was virtually full with the American Valet Lot at San Francisco and Cottage Avenue also well utilized (71 percent).

Rich also shows the highest occupancy reached in each on-street or off-street area studied. This is referred to as "Peak Achieved". This simply demonstrates the highest occupancy reached regardless of time of day. This is shown by **Map 9** on page 52 and shows there were only a few areas that markedly differed from the peak hour occupancy experienced.







	MAP Number:	
dy area Upancy	MAP 8	
7:00 PM	Page	





20	MAP Number:
OUTH STUDY AREA EAK OCCUPANCY	MAP 9
ACHIEVED	Page

Apart from the visualization of the utilization of various parking areas, another critical aspect of the occupancy counts is to provide a benchmark to which the calculated parking demand based on the parking demand model can be compared. A close correlation in the demand as calculated to the actually observed conditions lends confidence in the values applied.

However, in order to accurately correlate the calculated parking demand to the observed parking, the on-street and off-street spaces not directly observed must be accounted for. This is done by determining the percentage occupancy at each observation period (9:00 am – 11:00 am, 11:00 am – 1:00 pm etc.) and applying this same percentage to the missing spaces. Adding the directly observed to the extrapolated values gives the expected occupancy. This correction is done separately for the off-street and on-street spaces and the two values combined to derive the total expected occupancy.

Off-Street Parking

Figure 10 below demonstrates the correction of off-street parking. The occupancy of the spaces directly observed is represented by the taller columns. Of the total 1,047 space off-street supply, Rich directly observed 668 spaces. As an example, at the 9:00 am – 11:00 am period, 162 spaces (24%) of the 668 spaces were occupied. Subtracting the 668 spaces observed from the 1,047 space total means that 379 spaces were not directly observed. Applying the approximate 24 percent occupancy rate to these spaces results in 92 additional spaces expected to be occupied. Similar adjustments were made at each of the other observation periods.



Figure 10 - Off-Street Parking Occupancy Adjustment South Side





Adding together the occupied spaces from those directly observed to the extrapolated values results in the total occupancy figures for the off-street spaces as shown below in **Figure 11**.

Figure 11 - Adjusted Off-Street Parking Occupancy, South Side

Following a similar methodology for adjusting the on-street parking results in the values as demonstrated by **Figure 12**.

While Figure 11 above shows that the off-street parking peaks between about 5:00 pm and 9:00 pm, the on-street parking showed a clear peak coinciding with the 5:00 pm - 7:00 pm period.



Figure 12 - Adjusted On-Street Occupancy, South Side



Compiling the observed and corrected values for the on-street and off-street parking gives the graph as demonstrated by **Figure 13**. This shows that an expected peak occupancy would be about $710\pm$ spaces.

Similar as the methodology employed for the north side of downtown, with observation circuits occurring on a two-hour cycle, Rich uses the mid-point of each cycle as the observation point. Establishing these values, the mid-point between two observations is extrapolated to derive the occupancy at these interim periods. This is demonstrated by **Figure 14** below.



Figure 13 - Combined On-Street and Off-Street Parking Occupancy, South Side



Figure 14 - Observed and Extrapolated Parking Occupancy



Parking Demand Model – South Side Neighborhood

While the parking occupancy observations provide some insight into how the parking is operating, a more complete picture can be derived from an accurate parking demand model. This would represent the parking needs showing the parking needed by various land uses at various times of the day.

Rich again used the land use data provided from the City's GIS system supported by the field data collected in downtown Flagstaff.

Table 16 on page 57 details the square footage by type allocated to each block for the south side. The largest value is 83,000 square feet attributable to restaurant uses which plays a significant role in the occupancy pattern experienced with the peak occurring during the early evening hours.



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Table 16 - Existing Land Use Allocation – South Side

Curre	Current Square Footage by Land Use												
	-										Total Occupied		Total SF (includes
	Retail	Restaurant	Hotel	Community	Residential ¹	Office	Mixed	Auto Service	Financial	Government	SF	Vacant	Vacant)
Block #													
1			35					4,861			4,861		4,861
2				13,168							13,168		13,168
3											0		0
4					18						0		0
5	6,822				4	2,966	6,090				15,878		15,878
6	1,551										1,551		1,551
7	5,762	1,219		8,102	12						15,083	1,832	16,915
8		5,447				5,020					10,467		10,467
9	9,019										9,019		9,019
10		2,187		17,260							19,447		19,447
11					8						0		0
12	2,474	9,224						4,715	1,822		18,235		18,235
13	1,142	16,274					26,064				43,480		43,480
14		3,424	15		11		9,379				12,803		12,803
15			41								0		0
16		15,383	2				3,900				19,283	2,444	21,727
17										22,268	22,268		22,268
18	3,374	30,184				12,787	11,196				57,541		57,541
19						11,434	17,131				28,565		28,565
20											0	3,619	3,619
21											0		0
22											0		0
Total	30,144	83,342	93	38,530	53	32,207	73,760	9,576	1,822	22,268	291,649	7,895	299,544





Using parking generation rates (number of parking spaces needed) appropriate to each type of land use as derived from Rich's shared use model results in a calculated parking demand for the south side neighborhood in total that correlates with the conditions observed based on the occupancy counts. This shows that the parking need as calculated for the peak hour totals 707± spaces which matches the 708 spaces expected observed at this time based on the

Figure 15 - Calculated Parking Demand vs. Observed Parking Occupancy, South Side

occupancy counts. Similarly, during the afternoon peak the calculated parking totals 584 spaces which very closely matches the expected 581 spaces per the occupancy counts.

If the parking generation rates are applied to each land use and the results demonstrated individually, **Figure 16** is derived. This shows how the peak parking needs are largely driven by the restaurant component of land uses on the south side.



Figure 16 - Individual Land Use Parking Needs, South Side



Aggregating the individual land uses into a graph which demonstrates the relative contribution of each to the total parking demand throughout the day is demonstrated by **Figure 17**. This clearly shows how the restaurant land uses and parking demand plays the major role for the amount of parking needed in the evening. This is a typical pattern in many downtown where various uses contribute to the parking needs during the daytime hours but restaurant uses will often have the major impact on evening parking needs.



Figure 17 - Compiled Parking Demand Individual Land Uses, South Side

Rich used the demand model as demonstrated above which calculates parking needs that correspond to the observed conditions and applied the parking generation rates at the peak hour (5:00 pm - 6:00 pm) to the land uses as demonstrated in Table 16 to derive the parking needed by each type of land use by block. This is demonstrated by **Table 17** on the following page and **Map 10** on page 61.



Table 17 - Peak Hour Parking Demand – South Side Neighborhood

	Current Surplus / (Deficit) - Peak Daytime (5:00 PM - 6:00 PM)																			
	Retail	Restaurant	Hotel	Community	Residential ¹	Office	Mixed	Auto Service	Financial	Governme nt	Total Demand	P	ublic Parkin	5	Private Parking		Total		Gross Surplus / (Deficit)	Net Surplus / (Deficit)
				Parkin	ng Generatio	on Rate (.	Shared I	Use)				On-Street	Off-Street	Total	Off-Street	On-Street	Off-Street	Combined		
	1.39	4.94	0.90	0.21	0.92	0.43	0.95	1.15	1.65	0.67										
Block #	Block #										•					1				
1	0	0	32	0	0	0	0	6	0	0	37	/ 19	0	19	50	19	50	69	32	19
2	0	0	0	3	0	0	0	0	0	0	3	25	32	57	13	25	45	70	67	57
3	0	0	0	0	0	0	0	0	0	0	0	8	0	8	0	8	0	8	8	8
4	0	0	0	0	17	0	0	0	0	0	17	17	0	17	62	17	62	79	62	17
5	9	0	0	0	4	1	6	0	0	0	20	22	0	22	30	22	30	52	32	22
6	2	0	0	0	0	0	0	0	0	0	2	. 17	0	17	22	17	22	39	37	17
7	8	6	0	2	11	0	0	0	0	0	27	35	21	56	18	35	39	74	47	47
8	0	27	0	0	0	2	0	0	0	0	29	29	0	29	9	29	9	38	9	9
9	13	0	0	0	0	0	0	0	0	0	13	27	0	27	33	27	33	60	47	27
10	0	11	0	4	0	0	0	0	0	0	14	17	0	17	, 8	17	8	25	11	11
11	0	0	0	0	7	0	0	0	0	0	7	24	0	24	27	24	27	51	44	24
12	3	46	0	0	0	0	0	5	3	0	57	32	0	32	53	32	53	85	28	28
13	2	80	0	0	0	0	25	0	0	0	107	25	0	25	118	25	118	143	36	25
14	0	17	14	0	10	0	9	0	0	0	49	32	0	32	55	32	55	87	38	32
15	0	0	37	0	0	0	0	0	0	0	37	38	0	38	70	38	70	108	71	38
16	0	76	2	0	0	0	4	0	0	15	81	. 39	151	39	61	39	154	100	19	19
1/	5	1/19	0	0	0	5	11	0		15	170	26	52	10/	67	26	104	1/0	(25)	(25)
19	0	145	0	0	0	5	16	0	0	0	21	14	0	14	22	14	22	36	15	14
20	0	0	0	0	0	0	0	0	0	0	0	0	0	0	13	0	13	13	13	0
21	0	0	0	0	0	0	0	0	0	0	0	0	46	46	0	0	46	46	46	46
22	0	0	0	0	0	0	0	0	0	0	0	0	0	C	11	0	11	11	11	0
Total	42	412	84	8	49	14	70	11	3	15	707	462	302	764	745	462	1,047	1,509	802	589







The table and map just shown demonstrates the parking on both the gross and net basis. The "Gross Surplus / Deficit" compares total parking demand against total parking supply. The "Net Surplus / Deficit" allocates parking demand first to private supply and if surplus parking, discards the excess private spaces in the analysis. This follows the assumption that businesses with excess parking typically do not make these spaces available to the general public or adjacent businesses. Map 10 shows the gross surplus or deficit as the numerator and the net surplus or deficit as the denominator value.

While this convention would suggest that a high proportion of the private parking should be used with a relatively low usage of the public supply, analysis of the data contained in the occupancy counts suggests instead that a higher proportion of the public supply is used. This may be due to the higher proportion of publicly available parking (50 percent of the total supply) affords more opportunities to use the public supply even if private parking is provided. It may also be a result of more free spaces (although time limited) may allow someone to park and visit multiple destinations without having to move their car. Based on the observed day conditions with a calculated need of $707\pm$ spaces needed at the peak hour, the data suggests that just $303\pm$ spaces are used of the 745-space private supply while $404\pm$ of the 764 publicly available spaces are used. This represents just 53 percent of the available public supply.

Alternative Demand Values

As previously noted, the counts conducted in downtown Flagstaff were scheduled and conducted to coincide with the peak tourist season. However, with just the one day of counts it is undetermined whether this is an accurate portrayal of likely peak needs. Therefore, Rich calculated the parking as it may exists with values from five percent to 15 percent higher than these observed day conditions. These adjustments are demonstrated by **Table 18** on the following page.

Applying the same proportions for the apparent use of private and public parking spaces as calculated for the observed day conditions, Rich is projecting that even with peak hour demand 15 percent higher than the observed conditions, that just 64 percent of the publicly available parking would be used.

Best practices in a community is to manage the parking so that at least 15 percent of the spaces are available. This level of occupancy (85 percent) facilitates someone being able to easily find parking reasonably close to their destination without having to hunt multiple locations. The projected level of public parking utilization for the south side of downtown shows that this benchmark is easily met.



	Pe	Peak Hour Demand (5:00 PM - 6:00 PM)										
		Private	Parking	Public Parking								
Pct Change	Peak	Expected #	Pct of	Expected #	Pct of							
Observation	Demand	Spaces	Private	Spaces	Public							
Day	(Shared)	Occupied	Supply	Occupied	Supply							
0%	707	303	41%	404	53%							
5%	743	313	42%	430	56%							
10%	778	321	43%	457	60%							
15%	813	326	44%	487	64%							

Table 18 - Factored Parking Demand Alternative Peak Days (South Side)

Summary - South Side Demand

The south side of Downtown Flagstaff is characterized much differently than the north. Government uses and functions on the south side play a much smaller role in driving parking demand which instead is driven by the impact from restaurant uses. Both during the overall peak hour and with a significant role earlier in the day, the parking needed by restaurant uses are facilitated by the high proportion (50 percent) of publicly available parking. The 50 percent of parking publicly available meets Rich's best practice for this since it allows patrons to park once and walk to multiple destinations without having to move their car in between.

The demand model shows that even allowing for demand values as much as 15 percent higher than the conditions observed and calculated, the south side of Downtown Flagstaff should have more than adequate publicly available parking to support the existing land uses.



Appendix


				9:00 A	м	11:00) AM	1:00	PM	3:00	PM	5:00	PM	7:00	PM
				9:00 AM - 11:	00:00 AM	11:00 AM	- 1:00 PM	1:00 PM -	3:00 PM	3:00 PM	5:00 PM	5:00 PM -	7:00 PM	7:00 PM	9:00 PM
Block	Face	Description	Capacity	# Occ	% Occ	# Occ	% Occ	# Occ	% Occ	# Occ	% Occ	# Occ	% Occ	# Occ	% Occ
23	Α	On-Street	8	4	50%	5	63 %	4	50%	5	63 %	0	0%	1	13%
25	Α	On-Street	8	1	13%	5	63%	3	38%	5	63%	3	38%	7	88%
26	Α	On-Street	5	1	20%	3	60%	2	40%	5	100%	4	80%	5	100%
26	В	On-Street	7	1	14%	7	100%	7	100%	7	100%	6	86%	6	86%
26	С	On-Street	2	2	100%	2	100%	2	100%	2	100%	2	100%	2	100%
27	А	On-Street	8	3	38%	7	88%	7	88%	7	88%	8	100%	8	1 00%
27	В	On-Street	6	6	1 00 %	5	83%	6	100%	6	1 00 %	6	100%	5	83%
27	С	On-Street	10	10	1 00 %	10	1 00 %	10	100%	10	1 00 %	9	90%	10	1 00%
27	D	On-Street	8	6	75%	7	88%	8	100%	7	88%	8	100%	7	88%
28	А	On-Street	8	5	63%	7	88%	6	75%	8	1 00 %	8	100%	8	1 00%
28	В	On-Street	6	1	17%	5	83 %	2	33%	4	67%	5	83%	3	50%
28	С	On-Street	3	3	1 00 %	3	100%	3	100%	3	1 00 %	3	100%	3	100%
28	D	On-Street	6	5	83%	6	100%	5	83%	6	1 00 %	5	83%	6	100%
29	Α	On-Street	7	1	14%	5	71%	2	29%	4	57%	2	29%	5	71%
29	D	On-Street	9	5	56%	5	56%	5	56%	7	78%	4	44%	7	78%
30	Α	On-Street	7	1	14%	3	43 %	3	43%	0	0%	0	0%	0	0%
31	D	On-Street	15	5	33%	6	40%	5	33%	5	33%	0	0%	1	7%
32	Α	On-Street	8	1	1 3 %	1	1 3 %	0	0%	1	13%	0	0%	0	0%
32	В	On-Street	7	2	29 %	1	14%	1	14%	1	14%	0	0%	1	14%
32	С	On-Street	3	3	1 00 %	2	67%	1	33%	1	33%	2	67%	3	100%
33	Α	On-Street	10	10	1 00 %	10	100%	8	80%	10	100%	10	1 00 %	5	50%
33	С	On-Street	6	3	50%	3	50%	2	33%	5	83%	3	50%	4	67%
33	D	On-Street	6	2	33%	2	33%	4	67%	5	83%	3	50%	2	33%
34	А	On-Street	9	3	33%	8	89%	9	100%	8	89%	4	44%	7	78%
34	В	On-Street	6	1	17%	5	83 %	5	83%	4	67%	2	33%	4	67%
34	С	On-Street	7	0	0%	5	71%	5	71%	6	86%	6	86%	7	100%
34	D	On-Street	6	6	1 00 %	6	100%	6	100%	5	83%	5	83%	5	83%
35	Α	On-Street	8	7	88%	3	38%	8	100%	7	88%	7	88%	8	100%
35	В	On-Street	5	5	1 00 %	5	100%	3	60%	4	80%	5	1 00 %	5	100%
35	С	On-Street	8	4	50%	8	100%	7	88%	7	88%	7	88%	7	88%
35	D	On-Street	7	6	86%	7	100%	5	71%	7	100%	7	1 00 %	6	86%
36	А	On-Street	8	0	0%	6	75%	8	100%	6	75%	7	88%	8	100%
36	В	On-Street	8	7	88%	9	113%	8	100%	7	88%	8	100%	7	88%
36	С	On-Street	8	2	25%	3	38%	6	75%	5	63%	7	88%	8	100%
36	D	On-Street	9	1	11%	5	56%	5	56%	2	22%	2	22%	8	89%
37	Α	On-Street	4	0	0%	2	50%	2	50%	0	0%	0	0%	0	0%
37	В	On-Street	5	0	0%	3	60%	0	0%	2	40%	2	40%	5	100%

Table A1 – North Downtown On-Street Occupancy Results



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Table A1 – North Downtown On-Street Occupancy Results (Continued)

				9:00	۹M	11:0) AM	1:00	PM	3:00	PM	5:00	РМ	7:00	PM
				9:00 AM - 11	:00:00 AM	11:00 AM	- 1:00 PM	1:00 PM	- 3:00 PM	3:00 PM -	5:00 PM	5:00 PM -	7:00 PM	7:00 PM	9:00 PM
Block	Face	Description	Capacity	# Occ	% Occ	# Occ	% Occ	# Occ	% Occ	# Occ	% Occ	# Occ	% Occ	# Occ	% Occ
37	С	On-Street	9	0	0%	0	0%	2	22%	4	44%	4	44%	6	67%
38	А	On-Street	7	1	14%	5	71%	4	57%	4	57%	7	100%	2	29%
39	А	On-Street	11	10	91%	9	82%	10	91%	9	82%	9	82%	3	27%
39	С	On-Street	11	4	36%	6	55%	5	45%	4	36%	1	9%	0	0%
39	D	On-Street	11	0	0%	1	9%	2	18%	0	0%	1	9%	1	9%
40	А	On-Street	8	6	75%	5	63%	7	88%	7	88%	3	38%	2	25%
40	В	On-Street	8	0	0%	0	0%	1	13%	2	25%	2	25%	3	38%
40	С	On-Street	4	0	0%	3	75%	3	75%	0	0%	0	0%	0	0%
41	А	On-Street	9	7	78%	6	67%	8	89%	9	100%	4	44%	4	44%
41	В	On-Street	4	1	25%	2	50%	2	50%	3	75%	2	50%	2	50%
41	С	On-Street	7	0	0%	7	1 00 %	5	71%	6	86%	3	43%	4	57%
41	D	On-Street	7	1	14%	2	29%	3	43%	1	14%	3	43%	7	100%
42	А	On-Street	8	6	75%	6	75%	6	75%	6	75%	3	38%	3	38%
42	В	On-Street	7	7	100%	8	114%	6	86%	6	86%	7	100%	4	57%
42	С	On-Street	8	7	88%	9	113%	8	100%	7	88%	7	88%	8	100%
42	D	On-Street	5	2	40%	4	80%	6	1 20 %	5	100%	6	120%	6	120%
43	А	On-Street	5	4	80%	4	80%	4	80%	4	80%	4	80%	3	60%
43	В	On-Street	10	6	60%	9	90%	10	1 00%	8	80%	5	50%	5	50%
43	С	On-Street	9	3	33%	9	100%	6	67%	6	67%	3	33%	9	100%
43	D	On-Street	9	9	100%	9	1 00 %	9	100%	7	78%	9	100%	6	67%
44	А	On-Street	9	8	89%	9	1 00 %	9	100%	8	89%	5	56%	2	22%
44	С	On-Street	6	5	83%	5	83%	5	83%	4	67%	7	117%	5	83%
44	D	On-Street	6	7	117%	5	83%	6	100%	3	50%	2	33%	2	33%
322	С	On-Street	11	0	0%	3	27%	0	0%	0	0%	0	0%	0	0%
400	С	On-Street	9	4	44%	6	67%	8	89%	5	56%	3	33%	0	0%
411	С	On-Street	10	8	80%	10	1 00 %	10	100%	9	90%	8	80%	2	20%
422	С	On-Street	9	8	89%	9	1 00 %	9	100%	8	89%	8	89%	7	78%
А	А	On-Street	6	4	67%	4	67%	4	67%	4	67%	5	83%	1	17%
А	В	On-Street	5	1	20%	3	60%	5	100%	5	100%	4	80%	4	80%
А	С	On-Street	6	6	100%	5	83%	6	100%	6	100%	4	67%	1	17%
В	А	On-Street	7	5	71%	7	1 00 %	7	100%	7	100%	7	100%	5	71%
В	В	On-Street	9	9	1 00 %	9	1 00 %	9	1 00%	8	89%	8	89%	5	56%
В	С	On-Street	11	11	1 00 %	11	1 00 %	11	1 00%	11	100%	7	64%	4	36%
Н	А	On-Street	9	2	22%	0	0%	1	11%	1	11%	0	0%	1	11%
Н	С	On-Street	9	5	56%	9	100%	6	67%	6	67%	7	78%	5	56%
Н	D	On-Street	9	2	22%	5	56%	6	67%	6	67%	1	11%	0	0%
I	А	On-Street	10	0	0%	3	30%	2	20%	1	10%	1	10%	2	20%
On-Stre	et Directl	y Observed	559	282	50%	392	70%	384	69%	374	67%	320	57%	308	55%



Table A2 – North Downtown Off-Street Occupancy Results

				9:00	AM	11:00	MAK	1:00) PM	3:00	PM	5:00) PM	7:00	PM
				9:00 - 11	1:00 AM	11:00 AM	- 1:00 PM	1:00 PM	- 3:00 PM	3:00 PM -	- 5:00 PM	5:00 PM	- 7:00 PM	7:00 PM	- 9:00 PM
Block	Description	Map Letter	Capacity	# Occ	% Occ	# Occ	% Occ	# Occ	% Occ	# Occ	% Occ	# Occ	% Occ	# Occ	% Occ
23	City Hall Lot (Employees)	А	116	91	78%	95	82%	97	84%	94	81%	17	15%	12	10%
25	Permit Lot	С	75	38	51%	25	33%	31	41%	29	39%	20	27%	40	53%
25	City Court Building	D	17	18	106%	15	88%	16	94%	15	88%	6	35%	10	59%
25	Auto Loan Lot	E	13	3	23%	3	23%	3	23%	3	23%	2	15%	0	0%
25	Municipal Lot	F	25	4	16%	0	0%	2	8%	1	4%	1	4%	5	20%
25	Rodeway Inn Lot	G	15	6	40%	3	20%	3	20%	3	20%	4	27%	8	53%
26	Sports Exchange Lot	Н	8	2	25%	2	25%	5	63%	3	38%	3	38%	3	38%
26	Weatherford Hotel	0	9	9	100%	. 5	56%	6	67%	5	56%	8	89%	7	78%
26	Peace Surplus	L	11	3	27%	5	45%	3	27%	4	36%	4	36%	3	27%
26	Jimmy John's	К	18	4	22%	3	17%	6	33%	3	17%	7	39%	3	17%
26	Aspen Deli	1	2	2	100%	. 2	1 00 %	2	100%	2	100%	2	100%	0	0%
26	Theater	J	4	3	75%	4	100%	4	100%	4	100%	1	25%	0	0%
27	City Hcp Lot	Q	9	2	22%	3	33%	3	33%	5	56%	5	56%	3	33%
28	Arizona Music Pro	Т	9	1	11%	4	44%	6	67%	8	89%	4	44%	8	<mark>89</mark> %
28	Marta Annes	S	17	7	41%	12	71%	15	88%	5	29%	12	71%	15	88%
29	Run Flagstaff	V	13	1	8%	. 8	62%	4	31%	3	23%	1	8%	2	15%
32	Tenant Lot	AF	36	13	36%	13	36%	15	42%	15	42%	5	14%	6	17%
33	Post Office Back Lot	АН	25	2	8%	3	12%	2	8%	5	20%	3	12%	4	16%
33	Ice House Side Lot	AJ	8	4	50%	6	75%	6	75%	6	75%	0	0%	1	13%
34	Sunwest Bank Top Deck	AO	24	14	58%	18	75%	15	63%	13	54%	9	38%	8	33%
34	Sunwest Bank Lower Level	AP	38	14	37%	15	39%	14	37%	15	39%	11	29%	7	18%
34	Bank of America Lot	AN	33	8	24%	17	52%	16	48%	18	55%	12	36%	9	27%
34	Hotel Monte Vista	AL	22	20	91%	18	82%	20	91%	18	82%	20	91%	22	1 00 %
34	Back Alley Lot (Fed Bldg)	AK & AM	23	9	39%	3	13%	10	43%	8	35%	7	30%	7	30%
36	Deckers Lot	AU	11	8	73%	8	73%	6	55%	9	82%	5	45%	1	9%
37	Residence Inn Lot	AX	37	13	35%	10	27%	14	38%	23	62%	33	89%	35	95%
37	Alley North	AY	13	5	38%	7	54%	5	38%	5	38%	5	38%	5	38%
38	30-Min	BB1	7	2	29%	4	57%	1	14%	1	14%	0	0%	0	0%
38	City Hall Pay-by-Plate	BB2	19	6	32%	9	47%	11	58%	14	74%	4	21%	2	11%
38	Permit Only	BB3	26	4	15%	5	19%	3	12%	2	8%	2	8%	1	4%
39	Library Lot	BC	31	6	19%	26	84%	26	84%	25	81%	28	90%	16	52%



Table A2- North Downtown Off-Street Occupancy Results (Continued)

				9:00	AM	11:00	AM	1:00	PM	3:00	PM	5:00	PM	7:00	PM
				9:00 - 11	:00 AM	11:00 AM	- 1:00 PM	1:00 PM	- 3:00 PM	3:00 PM -	5:00 PM	5:00 PM -	7:00 PM	7:00 PM -	9:00 PM
Block	Description	Map Letter	Capacity	# Occ	% Occ	# Occ	% Occ	# Occ	% Occ	# Occ	% Occ	# Occ	% Occ	# Occ	% Occ
40	Sustainability & Environment	BF	38	38	100%	29	76%	34	89%	37	97%	36	95%	32	84%
40	Chase Bank Lot	BD	79	21	27%	24	30%	20	25%	35	44%	38	48%	31	39%
41	Pay to Park	BG	13	3	23%	4	31%	6	46%	3	23%	0	0%	0	0%
41	State Farm	BI	13	1	8%	8	62 %	6	46%	8	62 %	1	8%	2	15%
41	Theater	BH	10	4	40%	5	50%	4	40%	3	30%	0	0%	1	10%
41	National Bank AZ	BJ	46	23	50%	19	41%	14	30%	18	39%	8	17%	12	26%
42	Realty Exec	BM	16	6	38%	10	63%	8	50%	6	38%	4	25%	1	6%
42	BBVA Compass Bank	ВК	26	11	42%	11	42%	11	42%	11	42%	13	50%	24	92%
42	22 Birch (Wine Shop & Bar)	BO	9	7	78%	11	1 22 %	9	100%	9	100%	5	56%	8	89%
42	County Lot	BL	30	12	40%	9	30%	11	37%	11	37%	8	27%	7	23%
42	BACK Lot	BN	25	14	56%	8	32%	14	56%	11	44%	8	32%	9	36%
43	County Courthouse Lot Visitors	BQ	2	1	50%	2	100 %	2	100%	2	1 00 %	2	100%	0	0%
43	County Courthouse Lot Restricted	BP	15	9	60%	11	73%	12	80%	11	73%	13	87 %	3	20%
44	County Admin Ctr	BR	58	53	91%	52	90%	48	83%	55	95%	34	59%	24	41%
44	County Probation Dept Lot	BS & BU	32	15	47%	18	56%	17	53%	22	69%	14	44%	5	16%
44	Mexpro Insurance	BT	19	8	42%	9	47 %	8	42%	8	42%	2	11%	6	32%
44	202 Bldg Lot	BV	9	8	<mark>89</mark> %	6	67%	7	78%	5	56%	8	89%	1	11%
422	County Employee Lot	BY	50	43	86%	42	84%	42	84%	42	84%	38	76%	11	22%
В	County Bldg North of Cherry	BW	36	34	94%	33	92%	33	92%	33	92%	23	64%	8	22%
1	VFW lot	CA	36	8	22%	12	33%	12	33%	12	33%	13	36%	4	11%
Off-Stre	eet Directly Observed	72.01%	1276	641	50%	674	53%	688	54%	706	55%	509	40%	432	34%



Table A3 – South Downtown On-Street Occupancy Results

				9:00) AM	11:00	AM	1:00	PM	3:00	PM	5:00	PM	7:00	PM
				9:00 AM -	11:00 AM	11:00 AM	1:00 PM	1:00 PM	- 3:00 PM	3:00 PM	5:00 PM	5:00 PM -	7:00 PM	7:00 PM	- 9:00 PM
Block	Face	Description	Capacity	# Occ	% Occ	# Occ	% Occ	# Occ	% Occ	# Occ	% Occ	#Occ	% Occ	# Occ	% Occ
1	В	On-Street	8	8 8	100%	8	1 00 %	8	100%	8	100%	8	100%	7	88%
1	D	On-Street	5	1	20%	1	20%	0	0%	0	0%	0	0%	0	0%
2	А	On-Street	13	7	54%	7	54%	7	54%	8	62 %	3	23%	0	0%
2	D	On-Street	6	6	100%	5	83%	4	67%	4	67%	4	67%	4	67%
3	А	On-Street	8	3	38%	2	25%	2	25%	2	25%	2	25%	2	25%
4	А	On-Street	5	1	20%	3	60%	5	100%	3	60%	6	1 20 %	2	40%
4	D	On-Street	2	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%
5	А	On-Street	12	5	42%	10	83%	5	42%	7	58%	8	67%	7	58%
5	В	On-Street	4	3	75%	3	75%	1	25%	3	75%	5	125%	5	125%
5	D	On-Street	6	1	17%	2	33%	1	17%	1	17%	2	33%	3	50%
6	А	On-Street	10	3	30%	5	50%	3	30%	4	40%	6	60%	3	30%
6	В	On-Street	3	3	100%	2	67%	2	67%	2	67%	2	67%	2	67%
7	А	On-Street	11	. 4	36%	7	64%	6	55%	4	36%	8	73%	7	64%
7	В	On-Street	9	8	89%	7	78%	4	44%	4	44%	9	100%	4	44%
7	С	On-Street	8	4	50%	6	75%	4	50%	6	75%	7	88%	5	63%
7	D	On-Street	7	5	71%	6	86%	1	14%	6	86%	7	100%	6	86%
8	А	On-Street	9	5	56%	6	67%	3	33%	3	33%	9	1 00 %	6	67%
8	В	On-Street	8	3	38%	5	63%	2	25%	4	50%	7	88%	6	75%
8	С	On-Street	9	3	33%	7	78%	7	78%	6	67%	8	<mark>89</mark> %	7	78%
9	А	On-Street	9	8	89%	6	67%	5	56%	4	44%	9	100%	8	89%
9	С	On-Street	6	2	33%	2	33%	1	17%	2	33%	6	100%	2	33%
9	D	On-Street	5	3	60%	2	40%	0	0%	1	20%	5	1 00 %	5	100%
10	А	On-Street	4	3	75%	3	75%	4	100%	2	50%	5	125%	4	100%
10	С	On-Street	7	3	43%	2	29%	4	57%	2	29%	4	57%	1	14%
11	С	On-Street	8	2	25%	3	38%	2	25%	2	25%	1	13%	1	13%
11	D	On-Street	6	2	33%	3	50%	1	17%	3	50%	2	33%	3	50%
13	А	On-Street	5	1	20%	4	<mark>80</mark> %	1	20%	2	40%	1	20%	1	20%
13	С	On-Street	9	5	56%	6	67%	7	78 %	6	67%	5	56%	4	44%
13	D	On-Street	11	. 9	82%	11	100%	9	82%	7	64%	11	1 00 %	11	100%
14	А	On-Street	10	2	20%	3	30%	0	0%	1	10%	4	40%	4	40%
14	В	On-Street	7	8	114%	7	100%	5	71%	5	71%	7	100%	8	114%
14	С	On-Street	8	8	100%	8	100%	4	50%	1	13%	8	100%	6	75%
14	D	On-Street	7	5	71%	6	86%	5	71%	5	71%	5	71%	3	43%
15	А	On-Street	12	0	0%	0	0%	3	25%	0	0%	7	58%	6	50%
15	В	On-Street	7	4	57%	6	86%	3	43%	5	71%	6	86%	6	86%
15	С	On-Street	9	5	56%	7	78%	6	67%	7	78%	7	78%	6	67%
15	D	On-Street	10	7	70%	7	70%	5	50%	6	60%	5	50%	7	70%



Table A3 – South Downtown On-Street Occupancy Results (Continued)

				9:00	AM	11:00) AM	1:00	PM	3:00	РМ	5:00	PM	7:00	PM
				9:00 AM -	11:00 AM	11:00 AM	- 1:00 PM	1:00 PM ·	- 3:00 PM	3:00 PM ·	5:00 PM	5:00 PM	- 7:00 PM	7:00 PM -	9:00 PM
Block	Face	Description	Capacity	# Occ	% Occ	# Occ	% Occ	# Occ	% Occ	# Occ	% Occ	#Occ	% Occ	# Occ	% Occ
16	А	On-Street	10	0	0%	1	10%	0	0%	0	0%	6	60%	6	60%
16	В	On-Street	11	9	82%	10	91%	11	100%	9	82%	11	100%	10	91%
16	С	On-Street	10	2	20%	8	80%	5	50%	6	60%	9	90%	6	60%
16	D	On-Street	8	4	50%	7	88%	4	50%	6	75%	7	88%	6	75%
17	С	On-Street	16	3	19%	2	13%	1	6%	3	19%	0	0%	2	13%
18	С	On-Street	26	8	31%	7	27%	4	15%	1	4%	9	35%	10	38%
19	С	On-Street	14	2	14%	2	14%	2	14%	1	7%	6	43%	5	36%
On-Stre	et Directl	y Observed	378	178	47%	215	57%	157	42%	162	43%	247	65%	207	55%



Table A4 – South Downtown Off-Street Occupancy Results

				9:00	AM	11:00	AM	1:00	PM	3:00	PM	5:00	PM	7:00	PM
				9:00 AM -	11:00 AM	11:00 AM -	1:00 PM	1:00 PM	- 3:00 PM	3:00 PM	5:00 PM	5:00 PM	- 7:00 PM	7:00 PM -	9:00 PM
Block	Description	Map Letter	Capacity	# Occ	% Occ	# Occ	% Occ	# Occ	% Occ	# Occ	% Occ	# Occ	% Occ	# Occ	% Occ
1	Knights Inn Lot	А	40	7	18%	5	13%	7	18%	7	18%	11	28%	14	35%
2	American Valet Lot	С	32	0	0%	0	0%	0	0%	0	0%	1	3%	1	3%
2	Hope Pregnancy Ctr Lot	D	5	4	80%	5	100%	5	1 00 %	3	60%	0	0%	0	0%
2	Our Lady of Guadalupe Lot	E	8	1	1 3 %	0	0%	0	0%	0	0%	1	13%	0	0%
4	Christian Fellowship Gravel Lot	F	40	0	0%	2	5%	2	5%	3	8%	2	5%	4	10%
5	Rock Climbing Center	I	17	4	24%	6	35%	10	59%	7	41%	20	118%	10	59%
7	American Valet Lot	М	21	2	10%	8	38%	2	10%	5	24%	15	71%	15	71%
9	Ray's Barber Shop etc.	S	21	5	24%	2	10%	5	24%	3	14%	5	24%	8	38%
13	Rehab Services Etc.	АН	18	7	39%	12	67%	12	67%	8	44%	12	67%	15	83%
13	Restaurant Lot	AJ	73	21	29%	43	59%	35	48%	40	55%	43	59%	39	53%
13	Corner Lot (Mike's Pike/Cottage)	AF	13	0	0%	9	69%	3	23%	0	0%	5	38%	6	46%
16	Gravel Lot (Estimate)	AU	50	7	14%	8	16%	5	10%	6	12%	3	6%	1	2%
17	City Pay Lot	AV1	24	8	33%	4	17%	9	38%	8	33%	6	25%	15	63%
17	Bus Station Lot	AV2	45	26	58%	25	56%	21	47%	21	47%	29	64%	28	62%
17	Bus Station Lot	AV3	85	3	4%	3	4%	5	6%	2	2%	7	8%	4	5%
18	Pay-by-Plate	AX	49	8	16%	20	41%	37	76%	21	43%	48	98%	40	82%
18	Lumberyard	AY	10	11	11 0 %	11	110%	9	90%	9	90%	9	90%	7	70%
18	Altitude Bar	AW	49	18	37%	23	47%	22	45%	21	43%	28	57%	17	35%
18	CPA Lot	AZ	11	7	64%	6	55%	5	45%	3	27%	6	55%	7	64%
21	Train Station Lots along Rte 66	BD & BE	46	15	33%	18	39%	17	37%	22	48%	19	41%	39	85%
22	Chamber of Commerce Lot	BF	11	8	73%	4	36%	6	55%	8	73%	2	18%	3	27%
Off-Stre	eet Directly Observed		668	162	24%	214	32%	217	32%	197	29%	272	41%	273	41%





CITY OF FLAGSTAFF Parking Demand Study Update





Methodology

- Updated Land Use Data (provided by City)
- Updated Building Inventory / Parking Supply Inventory (Rich & Associates)
- One day of occupancy counts (Thursday) (August 2, 2018)
 - Conducted during peak tourist season
- Development of Parking Demand Tables based on existing conditions
- Project for potential higher volume days (+5% to +15% greater than observed)









Sheet Title:

Ghecked by MAP Number:

STUDY AREA

1907 n/a 10/10/18

DWB

633

Page Number

Parking Analysis separated into North side assessment and separate south side assessment Bisected by Historic Route 66





North Side Downtown





Summary

North Side of Downtown

Parking Demand uses dominated by high proportion of government uses (33% of total occupied sf) and functions which have a significant impact on the peak need for parking

Parking Supply shows more than <u>two-thirds</u> of total available parking supply is privately controlled which limits ability of patrons to park once and walk to multiple destinations. Has an affect on the "true" surplus / deficit calculations.

Occupancy Results show 58% of total parking occupied. When deducting surplus private parking spaces, the existing conditions (correlated to observed day) shows a net surplus of 184± spaces at the overall peak hour (3:00 – 4:00 pm). Adjusting the calculations to account for the high proportion of government parking shows an 11:00 am – 12:00 noon peak. At this time the "net surplus" which discounts surplus private parking is reduced to 118± spaces.





Parking Supply North Side Downtown

North Side of Dow	North Side of Downtown													
	Pul	blic	Priv	/ate	То	tal								
On-Street	576	100.0%	0	0.0%	576	24.5%								
Off-Street	166	9.4%	1,606	90.6%	1,772	75.5%								
Total	742	31.6%	1,606	68.4%	2,348	100.0%								

More than two-thirds of North Side parking privately provided. Rich's best practice is City should have 50 percent publicly available.







Public Parking (blue on map) – Can park and visit any destination

Private Parking (red on map) – Only for staff, customers or visitors of owning entity

On-Street Metered Parking (orange on map) – unlimited stay \$1.00 per hour





Downtown Occupancy Counts

- Used to both observe how the existing parking is being used
- Serve as a means to calibrate the parking demand model
- By correlating the demand model to observed conditions, a more accurate forecast of parking demand can be prepared







Peak Hour – North Downtown 3:00 pm – 5:00 pm





North Side Downtown Observed Parking Occupancy



ICH & ASSOCIATES



Comparison of Calculated Parking City of Flagstaff Shared Parking Occupancy Flagstaff, Arizona **Demand to Observed Parking** Occupancy 1600 1400 1,362 **Calculated Parking** 1200 Demand Parking Spaces 000 Backing Spaces 000 Contemportation Contempo **Observed Parking** Occupancy 400 200 0 7:00 8:00 9:00 10:00 11:00 12:00 1:00 2:00 3:00 4:00 5:00 6:00 7:00 8:00 9:00 10:00 11:00 12:00 1:00 AM AM AM AM AM PM AM AM Time of Day Observed Values Extrapolated Values Calculated

RICH & ASSOCIATES



In Assessing the adequacy of the parking supply there are TWO ways of comparing the demand for parking to the available supply of parking

Gross Surplus / Deficit

(Total Parking Supply minus Total Parking Demand)

Does not consider public or private parking. Surplus private spaces are assumed to be available to anyone

Net Surplus / Deficit

Applies parking demand to private spaces on each block first

- "Extra" private spaces are discarded from calculation under the premise that these spaces are not available to others.
- > Provides a truer representation of patrons experience.





City of Flagstaff Parking Study Update Flagstaff, Arizona	Tel. 2483	RICH & ASSOCIATES PARKING CONSULTANTS Planners - Architects - Engineers 26977 NWHwy Suite 208 Southied, MI 49003 835080 - www.richassoc.com	LEGEND: BLOCK FACE KEY PLAN: study area a the study area b the study area b	SURPLUS OF PARKING +100 0 Thru 99	DEFICIT OF PARKING -99 Thru -1 -100 +	<u>Gross</u> Net	(E)	Sheet Title: NORTH STUDY AREA CURRENT SURPLUS/DEFICIT Peak Hour 3:00-4:00PM	MAP Number: MAP 5 Page
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Gov't Peak Hour

- Calculated because of high proportion of parking that is privately provided (example, City Hall)
- Significant proportion of government offices and functions
- Rich applied the parking generation rates as calculated for the 11:00 am – 12:00 noon period
- This showed that although the TOTAL demand was only slightly lower, the impact on the net surplus of parking was significant.





RICH & ASSOCIATES



5.18	Ov (ع	erall Peak H 8:00 - 4:00 PN	our Л)	(Based o (11:00	on Gov't Pea AM - 12:00 N	k Hour loon)
				Peak		
Pct Change	Peak	Gross	Net	Demand	Gross	Net
Observation	Demand	Surplus /	Surplus /	(Unshared)	Surplus /	Surplus /
Day	(Shared)	(Deficit)	(Deficit)	+20%	(Deficit)	(Deficit)
0%	1,362	986	184	1,341	1007	118

Note how even though the peak demand is lower using the gov't peak hour and thus the gross surplus is greater, because of the high proportion of private parking, the "net" surplus is actually less at the government peak hour.

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Peak Parking Adjustments

- Shown because unlikely selected survey date = peak planning day
- Adjustments of +5%, +10% and +15% over "observed" (Thursday August 2, 2018) day.
- Designed to demonstrate potential higher volume days





Alternative Values / Peak Times Comparison

	Ov (ع	erall Peak H 8:00 - 4:00 PN	our Л)	(Based o (11:00	on Gov't Pea AM - 12:00 N	k Hour loon)
				Peak		
Pct Change	Peak	Gross	Net	Demand	Gross	Net
Observation	Demand	emand Surplus / Surplus /		(Unshared)	Surplus /	Surplus /
Day	(Shared)	(Deficit)	(Deficit)	+20%	(Deficit)	(Deficit)
0%	1,362	986	184	1,341	1007	118
5%	1,430	918	140	1,408	940	70
10%	1,499	849	93	1,475	873	23
15%	1,567	781	47	1,542	806	(25)





Public Parking

Parking operates most efficiently when about 85 percent of the parking is occupied. The 15% vacancy rate means that patrons should be able to find parking relatively convenient to their destination without the high expense for excessive surplus parking.

Calculations show that the north side of downtown is short of public parking by:

- Has just 9± public spaces more than needed based on the observed day
- Is 50± spaces short if the observed day demand is increased by 5%
- Is 105± spaces short if the observed day demand is increased by 10%
- Is 162± spaces short if the observed day demand is increased by 15%





South Side Downtown





Summary

South Side of Downtown

Parking Demand reflects impacts from restaurants that affect the peak hour need for parking, pushing it to early evening

Parking Supply reflects Rich's best practice of at least 50 percent of parking be publicly available. Facilitates a more walkable community.

Occupancy Results show 47 percent of total available parking supply occupied at peak time.



South Side Downtown

South Side of Downtown													
	Pul	olic	Priv	vate	То	tal							
On-Street	462	100.0%	0	0.0%	462	30.6%							
Off-Street	302	28.8%	745	71.2%	1,047	69.4%							
Total	764	50.6%	745	49.4%	1,509	100.0%							

South Side Downtown meets Rich's best practice that at least 50 percent of parking should be publicly available.





Flagstaff, Arizona

Southfield, MI 48033

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Public Parking (blue on map) - Can park and visit any destination

Private Parking (red on map) - Only for staff, customers or visitors of owning entity

On-Street Metered Parking (orange/on map) – unlimited stay \$1.00 per hour

On-Street 2-hour Parking (red on map)





Peak Hour – South Downtown 5:00 pm – 7:00 pm

RICH & ASSOCIATES



South Side Downtown Parking Occupancy



RICH & ASSOCIATES



Comparison of Calculated Parking Demand to Observed Parking Occupancy







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Peak Parking Adjustments

Adjusting for the potential condition that actual peak day parking demand for the south side will be higher than the conditions observed on Thursday August 2, 2018.





Peak Parking Adjustments

	Peak Hour Demand (5:00 PM - 6:00 PM)				
		Private Parking		Public Parking	
Pct Change	Peak	Expected #	Pct of	Expected #	Pct of
Observation	Demand	Spaces	Private	Spaces	Public
Day	(Shared)	Occupied	Supply	Occupied	Supply
0%	707	303	41%	404	53%
5%	743	313	42%	430	56%
10%	778	321	43%	457	60%
15%	813	326	44%	487	64%




Conclusions – North Side

North side of Downtown Flagstaff has a minimal surplus (118± spaces) of parking on the net basis during the late morning/early afternoon peak hour based on observed day. At values 10% higher surplus reduced to just 23± spaces

The public parking on the north side of downtown is likely short between 50± and 160± spaces for the public parking to operate at an 85% occupancy level.

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Conclusions – South Side

South side of Downtown has an existing surplus on the "net" basis of nearly 600± spaces at the peak hour.

Even with parking demand projected to be 15% greater than conditions observed on August 2, 2018, the total on and off-street **public parking** supply would likely be only 64% occupied at the peak hour.



CITY OF FLAGSTAFF

STAFF SUMMARY REPORT

To: The Honorable Mayor and Council

From: James Duval, Sr. Project Manager

Date: 12/20/2018

Meeting Date: 01/22/2019



TITLE

Council Update: City of Flagstaff Municipal Court Facility Project.

STAFF RECOMMENDED ACTION:

This is a project update, no staff recommended action requested.

EXECUTIVE SUMMARY:

Staff will be providing City Council an update on the project including:

- Project location and history
- Design Phase project elevation drawings, floor plans, and site plan review status
- Budget and Schedule
- Path Forward

INFORMATION:

Project funding provided by:	
Bonds (Prop 412, November 2016)	\$12,000,000
Court Fees	\$ 2,080,000
Sale of Property (Fire Sta. #1)	\$ 520,000
Redevelopment Fund	\$ 500,000
Capital Funding Transfer	\$ 400,000
Capital Financing	\$ 4,000,000
Total	\$19,500,000

The project will be designed and constructed to meet the requirements of the **City's Resolution 2014-09** requiring all new City Facilities to achieve sustainable certification. Currently, Green Globes certification is the certification being pursued.

Council approved the Design-Build Contract with Kinney Construction Services July 03, 2018 in the amount of \$1,593,628.

The existing City-owned buildings located at 101 W. Cherry Avenue will be demolished to provide space for the new Court Building.

The existing Municipal Court building located at 15 N. Beaver Street and the existing Prosecutor's building located at 107 W. Aspen Avenue will be demolished to provide space to meet the City's Zoning Code requirements for parking.

Attachments: Presentation

Flagstaff City Council

City Court Facility Project



Council Update January 22, 2019 TEAM FLAGSTAFF



Overview-Tonight's Discussion Points



• Project Location & History

- Design Phase- Project Elevation & Floor Plan Drawings
- Path Forward

Project Location 101 West Cherry Avenue







Project History:



• Proposition 412

- Design-Builder Selection
- Council Award of Design Phase

Project Elevation Drawings



N-E Perspective (Looking south towards SW corner Beaver/Cherry)



Project Elevation Drawings



N-W Perspective (On Cherry Looking east towards SW corner Beaver/Cherry)



Project Elevation Drawings



S-E Perspective (On Beaver St. Looking north-west towards SW corner Beaver/Cherry)



Project Floor Plan- 1st Floor



W. CHERRY AVE.



Project Floor Plan- 2nd Floor





Project Floor Plan- 3rd Floor





Current Plan Review Status



• Facility Programming Complete

Concept Site Plan Approved

• Site Plan submitted for review 12-11-18

• Design Documents 50% Complete

Path Forward:



- Public Meeting will be scheduled in February
- Council consideration of Guaranteed Maximum Price (GMP) #1 for demolition and site work – March 2019
- Continue Preparation of Building Plans, Reviews and Permitting
- Come before Council in late spring with consideration of GMP#2 for Building Construction contract award
- Anticipated project completion: late winter/early spring of 2020



Questions

CITY OF FLAGSTAFF

STAFF SUMMARY REPORT

To: The Honorable Mayor and Council

From: Dan Folke, Interim Community Development Director

Date: 01/14/2019

Meeting Date: 01/22/2019

TITLE:

Update on Redevelopment of City Courthouse Property.

DESIRED OUTCOME:

Confirmation to hold a community design charrette.

EXECUTIVE SUMMARY:

Staff has been asked to prepare a Request for Proposals (RFP) to select a partner to redevelop the existing courthouse site. However, staff is recommending the City hold a community design charrette first to allow the community an opportunity to share their vision for the property. The outcome of the charrette will then be used to inform the RFP. Results can identify desired uses, form and function of the site.

INFORMATION:

With the construction of the new Municipal Courthouse at 101 W. Cherry Avenue, the existing courthouse site will initially be developed with surface parking. However, the City would like to find a partner that can redevelop the site with a new use while providing the necessary parking spaces to support the courthouse. Rather than assuming what the community may not want to see in a proposal, staff believes the better process is to provide an opportunity to identify a desired redevelopment concept that can inform an RFP and the respondents. The property is approximately 0.7 acres and is zoned Highway Commercial and Central Business in the conventional districts and T6 in the Transect zone.

Staff is proposing a community design charrette where participants can develop what they believe is the appropriate use of the property. Participants will be asked to consider uses, intensity, mass and scale, building materials, connectivity, and public amenities. Staff will retain a facilitator and design professional to assist. While we do not have a date yet, staff anticipates holding the charrette on a Saturday morning with the goal of issuing an RFP during the summer.

Attachments:

CITY OF FLAGSTAFF

STAFF SUMMARY REPORT

To: The Honorable Mayor and Council

From: Cliff Bryson, Labor Standards Manager

Date: 01/18/2019

Meeting Date: 01/22/2019

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TITLE

Discussion regarding 2019 State Legislative Trip and Priorities

STAFF RECOMMENDED ACTION:

- 1. Discuss possible date for the 2019 State of Arizona Legislative Trip
- 2. Discuss possible meeting date with Legislative District 6 Delegation
- 3. Discussion/Direction regarding current City of Flagstaff State legislative priorities

EXECUTIVE SUMMARY:

On Tuesday January 15, 2019, staff was given direction to reschedule the City's 2019 State of Arizona legislative trip to be held in Phoenix, AZ. Staff along with the City's State Lobbyist Richard Travis have been working on new date to hold the State trip. The State trip is tentatively scheduled for the week of February 11, 2019 for either that Wednesday or Thursday while the delegation is in session. The primary purpose of the trip:

- 1. Advocate for Flagstaff projects and priorities contained in the State priority document;
- 2. Discuss future priorities and to;
- 3. Discuss supported legislation and/or legislation that impacts the city of Flagstaff and other cities and towns.

Mr. Travis will be an attendance on this trip along with selected city staff and councilmembers. Mr. Travis, at the direction of city council and staff, will schedule appointments with legislators and state departments that will move forward Flagstaff's priorities.

On Tuesday January 29, 2019, staff will present a draft agenda with draft talking points to council. On Tuesday February 5, 2019, staff will present a final agenda and talking points for approval.

Currently, Mr. Travis is working on scheduling a meeting in Flagstaff with the City's District 6 delegation. This meeting with the city's delegates is separate from the State trip. Once the date has been set, staff will inform council (Tentative date is February 1, 2019).

For your convenience, the state priority document has been attached to further the discussion on talking points, changes, additions and/or further direction on these priorities.

INFORMATION:

None

Attachments: <u>State Priority List</u>

State Legislative Priorities

OF FLAGSTAFF

NORTHERN ARIZONA UNIVERSITY

Pursue a partnership with Northern Arizona University to jointly advocate for funding for the Rio de Flag Flood Control project from the state and federal government.

DARK SKIES

Advocate for legislation to create a Dark Skies specialty license plate.

COMMERCIAL PROPERTY ACCESSED CLEAN ENERGY

Advocate for state to enable legislation for Commercial Property Accessed Clean Energy, or C-PACE.

FOREST HEALTH

Advocate for investing in forest health treatments on state-owned land in the Flagstaff region.

STATE LIQUOR LICENSING

Advocate for change in state liquor licensing laws and establish a process for input to allow greater local government control in such areas as hours of operation, size of beverages and saturation. Seek additional funds from the alcohol industry to mitigate the effects alcohol has on the Flagstaff community.

STATE HIGHWAY FUNDS

Advocate for additional funding to the Arizona Department of Transportation to plan, build and maintain projects that affect Northern Arizona.

SOCIAL SERVICE PROVIDERS

Advocate for 100% funding from the state legislature to fully fund and reimburse social service providers.

CONSULATE CARDS

Advocate for the state of Arizona to accept consulate cards as valid forms of identification.

GROUNDWATER STANDARDS FOR URANIUM

Urge Arizona Department of Environmental Quality (ADEQ) to adopt stronger groundwater monitoring standards for uranium operations.

MINE SPECIFIC AQUIFER PROTECTION PERMITS

Urge ADEQ to require mine specific aquifer protection permits rather than general aquifer protection permits.

COLLEGES AND UNIVERSITIES

Advocate for state funding and legislation that supports colleges and universities.

GUN CONTROL LEGISLATION

Advocate for stronger gun control legislation and against legislation allowing guns in public facilities.

SWEEPS OF THE STATE AVIATION FUND

Advocate against further sweeps of the State Aviation fund.

STATE HOUSING TRUST FUND

Advocate for removing the \$2.5 million cap, which will allow the State's Housing Trust Fund to be fully funded through unclaimed property proceeds received by the state annually.

SWEEPS OF THE HIGHWAY USER REVENUE FUND

Advocate for restoration and oppose further sweeps of the Highway User Revenue Fund (HURF).

SENATE BILL 1070

Repeal Senate Bill 1070, which requires police to determine the immigration status of someone arrested or detained when there is reasonable suspicion they are not in the United States legally.

SENATE BILL 1487

Repeal Senate Bill 1487, which withholds shared revenue from cities and towns that are found by the Attorney General to have violated state law. The goal of the repeal is to gain local control of shared funding.



Federal Legislative Priorities

OF FLAGSTAFF

RIO DE FLAG FLOOD CONTROL PROJECT

Fully fund this important community project.

SKILLED NURSING FACILITY FOR VETERANS

Advocate for funding and building a skilled nursing facility for veterans in Flagstaff by protecting the initial state funding from future legislative sweeps and continue to encourage the Department of Veterans' Affairs to prioritize the project.

URANIUM MINING

Advocate for strengthening the laws, regulations and policies that govern uranium mining to ensure protection for public health and safety.

STRENGTHEN URANIUM TRANSPORT STANDARDS

Urge Arizona Department of Transportation and/or United States Department of Transportation to strengthen uranium transport standards to reduce the possibility of contamination.

FLAGSTAFF WATERSHED PROTECTION PROJECT

Advocate to leverage voter approved Flagstaff Watershed Protection Project (FWPP) funding with federal dollars to maximize investments into forest health, including resources for timber sale administration. Ensure that resources and funding continue to flow to important regional projects such as the Four Forests Restoration Initiative (4FRI), NAU's Ecological Restoration Institute (ERI) and other important forest restoration efforts outside of the 4FRI boundaries.

NATIONAL PARK SERVICE

Advocate against the fee increase proposed by the National Park Service.

FOURTH STREET PROJECT

Advocate for \$11.75 million TIGER grant for the Fourth Street Complete Street Corridor Project in fiscal year 2018.

FLAGSTAFF AIRPORT

Advocate for funding projects included in the Flagstaff Airport five-year Capital Improvement Program.

GASOLINE TAX

Advocate for an increase in the gasoline tax in order to help fund transportation improvements.

CARBON FEE AND DIVIDEND LEGISLATION

Urge the federal government to pass carbon fee and dividend legislation in support of climate change mitigation.

TRANSFER FEDERAL LANDS

Oppose the transfer of federal lands to state or municipal governments unless funding has also been provided to effectively manage those lands.

AFFORDABLE HOUSING

Support legislative action to ensure full funding of Public Housing, Section 8 Housing Choice Voucher Program and the Community Development Block Grant program.

DEFERRED ACTION FOR CHILDHOOD ARRIVALS

Advocate for Deferred Action for Childhood Arrivals (DACA) and other federal immigration policies that help keep families together while supporting their higher education goals.

MEDICAID INSTITUTIONS FOR MENTAL DISEASES EXCLUSION

Advocate for legislation to reform the Medicaid Institutions for Mental Diseases Exclusion.

