PARKING OBSERVATION STUDY

MOBILITY HUB PORT ST. LUCIE, FL

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EXECUTIVE SUMMARY

A parking accumulation study was conducted to measure the available parking in Tradition Square and the adjacent parking garage (floors 1 and 2). The parking accumulation study was performed over 3 days – Friday, August 18^{th,} 2023, Saturday, August 19^{th,} 2023, and Wednesday, August 23rd, 2023 - from 12 PM to 3 PM and 5 PM to 8 PM. During the afternoon peak hours (12 PM – 3 PM) on Wednesday, Friday, and Saturday 149, 159, and 132 parking spaces were used, respectively. During the evening peak hours (5 PM - 8 PM) on Wednesday, Friday, and Saturday, 98, 117, and 121 parking spaces were used, respectively. The parking supply on Wednesday and Saturday was 246 spaces and on Friday it was 228 spaces (18 parking spaces were closed on SW East Park Avenue and SW Meeting Street for a special event). The observations were adjusted by considering the peak season factor in order to provide a conservative analysis. After adjusting the data to consider peak season conditions, there were 62, 32, and 83 excess available parking spaces during the afternoon peak hour, and 125, 84, and 97 excess available parking spaces during the evening peak hour on Wednesday, Friday, and Saturday, respectively. Overall, there is adequate parking available in Tradition Square and the adjacent parking garage.

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INTRODUCTION

A study was conducted to determine the availability of parking in Tradition Square (parking garage and on-street parking) for the proposed Mobility Hub located in Tradition at the northeast corner of Park Avenue and SW Meeting Street. The data for parking count was collected for Tradition Square garage (floors 1 and 2) as well as on-street parking areas located in SW Stephanie Way, SW East Park Ave and SW Meeting Street, SW Civic Lane, and SW Trade Street as shown in Figure 1. These on-street parking spaces are used by town hall, restaurants, offices, and retail establishments. Mackenzie Engineering and Planning, Inc. (MEP) was retained to collect the parking count data and to provide necessary documents to assess available parking.



Figure 1: Parking Locations

Parking Observation Study

Field observations were obtained during the intervals that were determined to be peak periods of demand at the site. Specifically, observations were conducted from 12 PM to 3 PM and 5 PM to 8 PM on Friday, August 18th, 2023, Saturday, August 19th, 2023, and Wednesday, August 23rd, 2023. Friday parking count occurred during a special event (Food Truck Friday) that closed 18 spaces of



on-street parking in Tradition Square. The parking observation sheets are contained within the appendix of the report.

Observations taken during August require a peak season adjustment factor. MEP utilized FDOT's peak season adjustment factor for August 18-23 to convert the data to peak season conditions. A peak season adjustment factor of 1.23 was applied after comparing the count data obtained on all 3 days. On Friday, August 18th, 2023, the highest parking demand of 159 spaces was observed from 2:45 PM to 3:00 PM. Below table 1 shows observed and peak season demand for afternoon and evening peak hours for all 3 days.

Table 1. Tradition Square garage and on-street parking observed and peak season demand

Day of the	Time of the day	Observed	Peak Season	Estimated	Supply	Excess		
week			Factor	Peak		Spaces		
				Season				
Friday	Afternoon Peak Hour	159	1.23	196	228	32		
(August 18 th)	Evening peak Hour	117	1.23	144	228	84		
Saturday	Afternoon Peak Hour	132	1.23	163	246	83		
(August 19 th)	August 19 th) Evening peak Hour		est 19 th) Evening peak Hour		1.23	149	246	97
Wednesday	ednesday Afternoon Peak Hour		day Afternoon Peak Hour		1.23	184	246	62
(August 23 rd)	Evening peak Hour	98	1.23	121	246	125		

Parking Accumulation Analysis

The parking supply is 228 on Friday and 246 on Wednesday and Saturday (on-street and garage) with an existing afternoon peak hour demand of 149, 159, and 132 spaces, and evening peak hour demand of 98, 117, and 121 on Wednesday, Friday, and Saturday, respectively. The on-street and garage parking are projected to have an excess of 32-125 parking spaces during the peak season.



CONCLUSION

A parking accumulation study was conducted to measure the available parking in Tradition Square and the adjacent parking garage (floors 1 and 2). The parking accumulation study was performed over 3 days – Friday, August 18^{th.} 2023, Saturday, August 19^{th.} 2023, and Wednesday, August 23rd, 2023 - from 12 PM to 3 PM and 5 PM to 8 PM. During the afternoon peak hours (12 PM – 3 PM) on Wednesday, Friday, and Saturday 149, 159, and 132 parking spaces were used, respectively. During the evening peak hours (5 PM - 8 PM) on Wednesday, Friday, and Saturday, 98, 117, and 121 parking spaces were used, respectively. The parking supply on Wednesday and Saturday was 246 spaces and on Friday it was 228 spaces (18 parking spaces were closed on SW East Park Avenue and SW Meeting Street for a special event). The observations were adjusted by considering the peak season factor in order to provide a conservative analysis. After adjusting the data to consider peak season conditions, there were 62, 32, and 83 excess available parking spaces during the afternoon peak hour, and 125, 84, and 97 excess available parking spaces during the evening peak hour on Wednesday, Friday, and Saturday, respectively. Overall, there is adequate parking available in Tradition Square and the adjacent parking garage.



APPENDIX A

Friday (August 18th, 2023) Parking counts

	Zone A	Zone B	Zone C	Zone D	Zone E	Zone F				
Friday	Stephanie Way	East Park Ave Meeting Street	Civic Lane Trade Street	Garage Floor 1	Ramp	Garage Floor 2	Total On- Street Spaces Used	Total On- Street Spaces Available	Total Spaces Used	Total Spaces Available
Spaces	26	closed	15	94	0	93		41		228
12:15 PM	16		7	94		34	23	18	151	77
12:30 PM	15		7	94		39	22	19	155	73
12:45 PM	17		6	92		35	23	18	150	78
1:00 PM	17		8	93		35	25	16	153	75
1:15 PM	16		7	93		32	23	18	148	80
1:30 PM	17		5	93		38	22	19	153	75
1:45 PM	14		5	94		38	19	22	151	77
2:00 PM	17		9	94		38	26	15	158	70
2:15 PM	15		7	94		37	22	19	153	75
2:30 PM	15		7	94		40	22	19	156	72
2:45 PM	17		8	91		37	25	16	153	75
3:00 PM	17		8	91		43	25	16	159	69
5:00 PM	18		9	83		22	27	14	132	96
5:15 PM	13		3	79		21	16	25	116	112
5:30 PM	15		1	78		22	16	25	116	112
5:45 PM	12		1	79		18	13	28	110	118
6:00 PM	10		4	79		19	14	27	112	116
6:15 PM	9		3	79		10	12	29	101	127
6:30 PM	4		0	62		10	4	37	76	152
6:45 PM	11		1	62		7	12	29	81	147
7:00 PM	14		6	71		17	20	21	108	120
7:15 PM	15		5	76		21	20	21	117	111
7:30 PM	13		1	61		26	14	27	101	127
7:45 PM	13		3	68		25	16	25	109	119
8:00 PM	12		4	69		26	16	25	111	117



Saturday (August 19th, 2023) Parking counts

	Zone A	Zone B	Zone C	Zone D	Zone E	Zone F				
Saturday	Stephanie Way	East Park Ave Meeting Street	Civic Lane Trade Street	Garage Floor 1	Ramp	Garage Floor 2	Total On- Street Spaces Used	Total On- Street Spaces Available	Total Spaces Used	Total Spaces Available
Spaces	26	18	15	94	0	93		59		246
12:15 PM	9	4	2	80		7	15	44	102	144
12:30 PM	9	3	2	83		5	14	45	102	144
12:45 PM	10	4	5	83		7	19	40	109	137
1:00 PM	12	3	6	82		4	21	38	107	139
1:15 PM	12	6	6	92		10	24	35	126	120
1:30 PM	13	6	6	94		13	25	34	132	114
1:45 PM	11	6	5	94		12	22	37	128	118
2:00 PM	10	7	6	92		16	23	36	131	115
2:15 PM	12	6	4	92		3	22	37	117	129
2:30 PM	12	6	4	90		3	22	37	115	131
2:45 PM	11	8	6	91		2	25	34	118	128
3:00 PM	12	6	5	90		0	23	36	113	133
5:00 PM	12	7	6	89		11	25	34	125	121
5:15 PM	14	6	6	81		11	26	33	118	128
5:30 PM	17	6	5	83		10	28	31	121	125
5:45 PM	17	4	4	83		8	25	34	116	130
6:00 PM	16	4	6	79		9	26	33	114	132
6:15 PM	11	2	3	76		4	16	43	96	150
6:30 PM	5	3	3	76		4	11	48	91	155
6:45 PM	7	1	3	81		4	11	48	96	150
7:00 PM	4	1	1	80		3	6	53	89	157
7:15 PM	4	2	2	80		4	8	51	92	154
7:30 PM	1	1	1	77		2	3	56	82	164
7:45 PM	2	1	1	70		1	4	55	75	171
8:00 PM	5	2	0	68		1	7	52	76	170



Wednesday (August 23rd, 2023) Parking counts

	Zone A	Zone B	Zone C	Zone D	Zone E	Zone F				,
Wednesday	Stephanie Way	East Park Ave Meeting Street	Civic Lane Trade Street	Garage Floor 1	Ramp	Garage Floor 2	Total On- Street Spaces Used	Total On- Street Spaces Available	Total Spaces Used	Total Spaces Available
Spaces	26	18	15	94	0	93		59		246
12:15 PM	10	8	4	90		24	22	37	136	110
12:30 PM	13	6	5	94		31	24	35	149	97
12:45 PM	11	6	4	94		22	21	38	137	109
1:00 PM	11	6	4	94		17	21	38	132	114
1:15 PM	10	6	3	94		15	19	40	128	118
1:30 PM	8	4	3	93		10	15	44	118	128
1:45 PM	10	3	3	94		10	16	43	120	126
2:00 PM	12	6	2	94		11	20	39	125	121
2:15 PM	11	6	1	93		9	18	41	120	126
2:30 PM	13	6	1	94		9	20	39	123	123
2:45 PM	9	7	2	94		8	18	41	120	126
3:00 PM	9	6	3	93		11	18	41	122	124
5:00 PM	11	3	1	72		15	15	44	102	144
5:15 PM	8	0	0	80		7	8	51	95	151
5:30 PM	9	0	1	80		6	10	49	96	150
5:45 PM	9	0	2	80		7	11	48	98	148
6:00 PM	8	4	2	64		7	14	45	85	161
6:15 PM	7	0	1	64		5	8	51	77	169
6:30 PM	5	0	1	59		6	6	53	71	175
6:45 PM	5	1	1	58		7	7	52	72	174
7:00 PM	2	1	0	60		7	3	56	70	176
7:15 PM	3	0	0	61		5	3	56	69	177
7:30 PM	1	1	0	60		3	2	57	65	181
7:45 PM	1	2	0	60		3	3	56	66	180
8:00 PM	0	0	0	60		3	0	59	63	183