



Laureate Park Traffic Study

Raised Crosswalks

City of Orlando

Transportation Engineering Department

Location



Laureate Blvd. & Briand Ave.



Briand Ave. & Pinter St.



Factors to be Considered for Crosswalk Enhancements

- ❖ Minimum pedestrian volume = 20 per hour
- ❖ Number of pedestrian related crashes = 3 - 5 per year
- ❖ Minimum 85th percentile speed = 8 - 10 mph above posted speed
- ❖ Minimum vehicle volume = 1,100 vehicles per hour on a 2 lane road
- ❖ Other factors
 - ❖ Pedestrian crossing distance (ft)
 - ❖ Pedestrian walking speed (ft/s)
 - ❖ Pedestrian start-up time and end clearance time (s)

Data Collection

Laureate Blvd. & Briand Ave.



Traffic Count Collection Dates

- Wednesday, 1/11/2023
- Thursday, 1/12/2023

Pedestrian Count Collection Date

- Wednesday, 1/11/2023

Briand Ave. & Pinter St.



Traffic Count Collection Dates

- Wednesday, 8/17/2022
- Thursday, 8/18/2022

Pedestrian Count Collection Date

- Wednesday, 2/1/2023

Laureate Blvd. & Briand Ave.

Traffic & Speed Data Collection



Laureate Blvd.

Traffic Volume & Speed Counts

Wednesday, 1/11/2023

Accurate Traffic Counts
SPEED SUMMARY
Wed 1/11/2023

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Site Ref: 00000008305
Counter ID: 00000036022
Location: Laureate Blvd, E of Briand Ave
Direction: ROAD TOTAL

File: D0111005.prn
City: Orlando
County: Orange

TIME	10	15	20	25	30	35	40	45	50	55	60	65	70	75	76+	Total
01:00	0	0	2	6	19	15	12	5	0	1	0	0	0	0	0	60
02:00	0	0	0	3	8	12	5	1	0	0	0	0	0	0	0	29
03:00	0	0	0	0	3	12	2	1	0	0	0	0	0	0	0	18
04:00	0	0	0	4	9	4	9	3	1	1	0	0	0	0	0	31
05:00	0	0	0	6	13	12	7	2	1	0	0	0	0	0	0	41
06:00	0	0	1	26	74	44	14	3	3	0	0	0	0	0	0	165
07:00	1	0	19	80	282	111	19	8	0	0	0	0	0	0	0	519
08:00	6	0	12	212	450	174	46	13	4	1	0	0	0	0	0	918
09:00	9	7	8	68	378	230	35	18	6	1	0	0	0	0	0	760
10:00	3	0	8	72	263	156	33	10	2	0	0	0	0	0	0	547
11:00	2	1	10	40	120	71	17	6	0	0	0	0	0	0	0	267
12:00	0	0	1	32	64	61	8	1	2	0	0	0	0	0	1	170
13:00	2	1	1	41	222	174	33	14	2	1	0	0	0	0	0	491
14:00	1	0	1	61	292	165	47	9	3	0	0	0	0	0	0	579
15:00	5	1	10	89	330	224	47	13	0	0	0	0	0	0	0	719
16:00	8	2	3	95	277	214	36	10	0	0	0	0	0	0	0	645
17:00	6	2	4	88	406	286	53	5	1	0	0	0	0	0	0	851
18:00	11	1	16	171	493	240	44	6	0	0	0	0	0	0	0	982
19:00	4	1	26	241	458	148	23	1	0	0	0	0	0	0	0	902
20:00	2	4	2	103	288	152	17	2	0	0	0	0	0	0	0	570
21:00	4	0	4	58	147	98	17	4	0	0	0	0	0	0	0	332
22:00	0	0	1	20	67	72	13	2	1	0	0	0	0	0	0	176
23:00	0	0	0	13	56	48	9	3	0	0	0	0	0	0	0	129
24:00	0	0	1	7	51	53	18	5	1	0	0	0	0	0	0	136
DAY TOTAL	64	20	130	1536	4770	2776	563	145	27	5	0	0	0	1	0	10037
PERCENTS	0.7%	0.2%	1.3%	15.4%	47.6%	27.6%	5.6%	1.4%	0.2%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100%

Statistical Information...

15th Percentile Speed
24.2 mph

85th Percentile Speed
33.6 mph

Median Speed
28.4 mph

Average Speed
28.7 mph

10 MPH Pace Speed
25 mph to 35 mph
7546 vehicles in pace
Representing 75.1% of the total vehicles

Vehicles > 25 MPH
8287
82.6%

Laureate Blvd.

Traffic Volume & Speed Counts

Thursday, 1/12/2023

Accurate Traffic Counts
SPEED SUMMARY
Thu 1/12/2023

Page: 6

Site Ref: 00000008305
Counter ID: 00000036022
Location: Laureate Blvd, E of Briand Ave
Direction: ROAD TOTAL

File: D0111005.prn
City: Orlando
County: Orange

TIME	10	15	20	25	30	35	40	45	50	55	60	65	70	75	76+	Total
01:00	0	0	1	6	18	27	12	3	0	0	0	0	0	0	0	67
02:00	0	0	0	2	7	17	7	2	0	0	0	0	0	0	0	35
03:00	0	0	0	0	7	13	8	0	1	0	0	0	0	0	0	29
04:00	0	0	0	1	7	6	7	4	0	0	0	0	0	0	0	25
05:00	0	0	1	5	14	15	14	2	0	0	0	0	0	0	0	51
06:00	1	0	1	15	57	44	23	3	1	0	0	0	0	0	0	145
07:00	1	0	5	78	237	117	22	3	0	0	0	0	0	0	0	463
08:00	9	1	12	162	437	230	43	18	3	0	0	0	0	0	0	915
09:00	8	0	4	70	340	259	76	13	4	1	0	0	0	0	0	775
10:00	2	0	0	82	227	160	53	10	1	2	0	0	0	0	0	537
11:00	4	0	3	47	142	108	41	3	1	0	0	0	0	0	0	349
12:00	2	0	6	53	186	121	45	8	0	0	0	0	0	0	0	421
13:00	4	2	3	46	175	185	41	15	0	0	0	0	0	0	0	471
14:00	0	0	10	41	163	134	48	6	1	0	0	0	0	0	0	403
15:00	6	0	5	57	255	205	66	15	2	3	0	0	0	0	0	614
16:00	7	4	14	99	398	262	49	14	1	0	0	0	0	0	0	848
17:00	10	0	3	140	451	309	64	16	1	0	0	0	0	0	0	994
18:00	12	0	17	192	457	208	46	9	1	0	0	0	0	0	0	942
19:00	12	1	10	158	413	120	19	5	2	0	0	0	0	0	0	740
20:00	6	0	7	100	259	117	14	1	0	0	0	0	0	0	0	504
21:00	2	0	0	65	157	80	11	3	0	0	0	0	0	0	0	318
22:00	2	0	2	31	88	74	13	3	0	0	0	0	0	0	0	213
23:00	0	0	0	18	62	60	17	5	0	0	0	0	0	0	0	162
24:00	1	0	0	12	62	55	11	4	0	0	0	0	0	0	0	145
DAY TOTAL	89	8	104	1480	4619	2926	750	165	19	6	0	0	0	0	0	10166
PERCENTS	0.9%	0.1%	1.1%	14.6%	45.5%	28.8%	7.3%	1.6%	0.1%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100%

Statistical Information...

15th Percentile Speed
24.5 mph

85th Percentile Speed
34.0 mph

Median Speed
28.7 mph

Average Speed
28.9 mph

10 MPH Pace Speed
25 mph to 35 mph
7545 vehicles in pace
Representing 74.2% of the total vehicles

Vehicles > 25 MPH
8485
83.5%

Laureate Blvd. & Briand Ave.

Pedestrian Counts Crossing Laureate Blvd.

Time	Peds
12:00 AM	0
1:00 AM	0
2:00 AM	0
3:00 AM	0
4:00 AM	0
5:00 AM	1
6:00 AM	0
7:00 AM	0
8:00 AM	3
9:00 AM	0
10:00 AM	1
11:00 AM	1
12:00 PM	1
1:00 PM	0
2:00 PM	0
3:00 PM	2
4:00 PM	0
5:00 PM	1
6:00 PM	1
7:00 PM	0
8:00 PM	0
9:00 PM	0
10:00 PM	0
11:00 PM	0

Peak hour →

Number of vehicles crossing intersection at this time was 918

Evaluation

Laureate Blvd. & Briand Ave.			
Factors	Thresholds	Actual	Meet?
Minimum Pedestrian Volume	20/hr	3/hr	NO
# of Pedestrian Related Crashes	3-5/year	0/year	NO
85th percentile Speed	33 mph	34 mph	YES
Vehicle Volume	1,100/hr	918/hr	NO

Briand Ave. & Pinter St.

Traffic & Speed Data Collection



Briand Ave.

Traffic Volume & Speed Counts Wednesday, 8/17/2022

Accurate Traffic Counts
SPEED SUMMARY
Wed 8/17/2022

Page: 5

Site Ref: 00000007902
Counter ID: 00000033021
Location: Briand Ave & Pinter St
Direction: ROAD TOTAL

File: D0817002.prn
City: Orlando
County: Orange

TIME	10	15	20	25	30	35	40	45	50	55	60	65	70	75	76+	Total
01:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
02:00	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1
03:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
06:00	0	1	1	2	2	1	0	0	0	0	0	0	0	0	0	7
07:00	0	1	2	1	0	0	0	0	0	0	0	0	0	0	0	4
08:00	0	2	6	4	3	1	0	0	0	0	0	0	0	0	0	16
09:00	1	5	13	6	2	0	0	0	0	0	0	0	0	0	0	27
10:00	2	2	10	6	3	1	0	0	0	0	0	0	0	0	0	24
11:00	1	8	9	1	0	0	0	0	0	0	0	0	0	0	0	19
12:00	3	10	9	1	0	1	0	0	0	0	0	0	0	0	0	24
13:00	0	1	4	5	2	0	0	0	0	0	0	0	0	0	0	12
14:00	3	3	9	4	1	0	0	0	0	0	0	0	0	0	0	20
15:00	0	5	6	3	2	0	0	0	0	0	0	0	0	0	0	16
16:00	2	5	11	8	0	0	0	0	0	0	0	0	0	0	0	26
17:00	1	5	8	4	0	0	0	0	0	0	0	0	0	0	0	18
18:00	0	8	15	16	4	0	0	0	0	0	0	0	0	0	0	43
19:00	1	5	10	10	1	1	0	0	0	0	0	0	0	0	0	28
20:00	0	4	12	5	1	1	0	0	0	0	0	0	0	0	0	23
21:00	2	4	7	0	0	0	0	0	0	0	0	0	0	0	0	13
22:00	0	0	4	4	0	0	0	0	0	0	0	0	0	0	0	8
23:00	0	0	0	3	0	0	0	0	0	0	0	0	0	0	0	3
24:00	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	2
DAY TOTAL	16	69	139	83	21	6	0	0	0	0	0	0	0	0	0	334
PERCENTS	4.8%	20.7%	41.7%	24.9%	6.2%	1.7%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100%

Statistical Information...

15th Percentile Speed 12.5 mph	85th Percentile Speed 23.6 mph
Median Speed 18.0 mph	Average Speed 18.0 mph
10 MPH Pace Speed 15 mph to 25 mph 222 vehicles in pace Representing 66.4% of the total vehicles	Vehicles > 25 MPH 27 8.1%

Briand Ave.

Traffic Volume & Speed Counts Thursday, 8/18/2022

Accurate Traffic Counts
SPEED SUMMARY
Thu 8/18/2022

Page: 6

Site Ref: 00000007902
Counter ID: 00000033021
Location: Briand Ave & Pinter St
Direction: ROAD TOTAL

File: D0817002.prn
City: Orlando
County: Orange

TIME	10	15	20	25	30	35	40	45	50	55	60	65	70	75	76+	Total
01:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
02:00	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1
03:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05:00	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1
06:00	0	1	0	0	1	0	0	0	0	0	0	0	0	0	0	2
07:00	0	1	3	3	2	0	0	0	0	0	0	0	0	0	0	9
08:00	3	4	7	5	2	0	0	0	0	0	0	0	0	0	0	21
09:00	1	3	12	8	5	0	1	0	0	0	0	0	0	0	0	30
10:00	5	7	11	3	1	0	0	0	0	0	0	0	0	0	0	27
11:00	0	3	5	1	3	0	0	0	0	0	0	0	0	0	0	12
12:00	0	2	4	6	2	0	0	0	0	0	0	0	0	0	0	14
13:00	0	2	4	10	2	0	0	0	0	0	0	0	0	0	0	18
14:00	1	2	8	13	1	0	0	0	0	0	0	0	0	0	0	25
15:00	1	2	9	7	3	1	0	0	0	0	0	0	0	0	0	23
16:00	3	8	13	3	1	0	0	0	0	0	0	0	0	0	0	28
17:00	1	8	13	8	4	0	0	0	0	0	0	0	0	0	0	34
18:00	2	1	11	13	2	0	0	0	0	0	0	0	0	0	0	29
19:00	1	2	15	13	2	0	0	0	0	0	0	0	0	0	0	33
20:00	1	7	7	3	0	0	0	0	0	0	0	0	0	0	0	18
21:00	0	2	5	0	0	2	0	0	0	0	0	0	0	0	0	9
22:00	1	0	3	2	1	0	0	0	0	0	0	0	0	0	0	7
23:00	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1
24:00	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	2
DAY TOTAL	20	56	131	101	32	3	1	0	0	0	0	0	0	0	0	344
PERCENTS	5.9%	16.3%	38.1%	29.4%	9.3%	0.8%	0.2%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100%

Statistical Information...

15th Percentile Speed
12.8 mph

85th Percentile Speed
24.2 mph

Median Speed
18.7 mph

Average Speed
18.6 mph

10 MPH Pace Speed
15 mph to 25 mph
232 vehicles in pace
Representing 67.4% of the total vehicles

Vehicles > 25 MPH
36
10.5%

Briand Ave. & Pinter St.

Pedestrian Counts Crossing Briand Ave.

Time	Peds
6:00 AM	0
7:00 AM	2
8:00 AM	14
9:00 AM	6
10:00 AM	10
11:00 AM	8
12:00 PM	1
1:00 PM	4
2:00 PM	7
3:00 PM	0
4:00 PM	11
5:00 PM	15
6:00 PM	18
7:00 PM	7
8:00 PM	2
9:00 PM	3
10:00 PM	2
11:00 PM	0
12:00 AM	0
1:00 AM	0
2:00 AM	0
3:00 AM	0
4:00 AM	0
5:00 AM	0

Peak hour →

Number of vehicles crossing intersection at this time was 43

Evaluation

Briand Ave. & Pinter St.			
Factors	Thresholds	Actual	Meet?
Minimum Pedestrian Volume	20/hr	18/hr	NO
# of Pedestrian Related Crashes	3-5/year	0/year	NO
85th percentile Speed	28 mph	24.2 mph	NO
Vehicle Volume	1,100/hr	43/hr	NO