

E. PITKIN ST. ADVISORY LANES PROJECT
SEMI-ANNUAL PROGRESS REPORT #1 (AUGUST 2022)

Contents

Background2

Before Study2

 Volume.....2

 Observations3

 Crash Data.....3

 Speed Study3

 Survey4

Public Outreach5

BACKGROUND

On September 20, 2021, the City of Fort Collins was granted approval from the Federal Highway Administration to experiment with advisory bike lanes on E. Pitkin St. from Remington St. to Smith St. A street with advisory bike lanes provides for two-way motor vehicle and non-motorized traffic using a center lane with advisory lanes on either peripheral side of the roadway. The center lane is dedicated to, and shared by, motorists traveling in both directions and bicyclists have right-of-way in the advisory bike lanes, although motorists may utilize the advisory lanes to pass non-motorized traffic after yielding to non-motorized traffic, namely bicycles, e-bicycles, and e-scooters. The corridor redesign will include the following primary elements:

- 7-foot eastbound advisory bicycle lane with skip stripe.
- 16-foot center travel lane with no center striping.
- 6.5-foot westbound advisory bicycle lane with skip stripe.
- 2-foot buffer between the westbound advisory bicycle lane and on-street parking.
- 8-foot on-street parking lane on the north side of the street.
- Bike lane (R3-17) and two-way traffic warning (W6-3) signs.
- Bicycle lane pavement markings every 600 feet.

The restriping of E. Pitkin St. is being coordinated with utilities and resurfacing work and is a joint effort between the City's FC Moves (Transportation Planning), Traffic Operations, Streets, and Utilities departments. At the time the request to experiment was submitted, the City anticipated repaving E. Pitkin St. in Spring 2022. Utilities improvements on E. Pitkin St. were delayed due to supply chain issues, material backlogs, and weather. The City currently anticipates repaving and restriping E. Pitkin St. by September 2022. This report summarizes before study data collected in Fall 2021 – Spring 2022 and public outreach conducted thus far.

BEFORE STUDY

VOLUME

An average daily traffic (ADT) volume study was conducted on E. Pitkin St. between Matthews St. and Peterson St. from 12:00 PM on Wednesday, October 6th, 2021, to 12:00 PM on Friday, October 8th 2021. The ADT is 1,486. Additional volume study data can be found in Appendix A.

A traffic video recorder was also used to record traffic activity. The video recorder was installed on the south side of E. Pitkin St. between Peterson St. and Whedbee St. in October 2021. Street activity was recorded, and video footage was analyzed for the time periods of 7-9 AM, 12-2 PM, and 5-7 PM on Thursday, October 14th, Friday, October 15th, and Saturday October 16th. A total of 189 bikes were observed. A summary of the volume counts is presented in Table 1.

Table 1: Volume counts on E. Pitkin St. – AM (7-9 AM), midday (12-2 PM), and PM (5-7 PM).

		Cars		Bikes		Pedestrians		Scooters		Other modes	
Date	Time	WB*	EB*	WB	EB	WB	EB	WB	EB	WB	EB
Thurs, 10/14	AM	121	97	27	7	5	9	0	0	0	0
Thurs, 10/14	Midday	80	93	11	13	9	4	1	0	1	0
Thurs, 10/14	PM	104	109	5	20	9	15	0	2	1	0
Fri, 10/15	AM	84	43	16	4	13	11	0	0	0	0
Fri, 10/15	Midday	60	89	11	17	8	11	0	2	1	1
Fri, 10/15	PM	62	87	5	18	10	7	0	2	0	0
Sat, 10/16	AM	16	14	3	1	10	6	0	0	1	0
Sat, 10/16	Midday	50	62	12	3	10	17	2	2	0	0
Sat, 10/16	PM	63	76	5	11	4	9	1	1	2	0

*WB = westbound, EB = eastbound

OBSERVATIONS

Video footage for the dates and time periods specified above was also analyzed for road user behavior and conflicts. The following observations were recorded:

- 13 active mode users (3 skateboarders and 10 bicyclists) were seen using the vehicular travel lanes.
- 7 vehicles crossed the double yellow centerline. 5 did so to pass an active mode user.
- 1 vehicle was observed crossing the centerline for no obvious reason.
- 1 vehicle was observed crossing into the bike lane for no obvious reason.
- 16 pedestrians/joggers were counted using the bike lane.
- 8 active mode users were counted traveling against traffic in the bike lane {scooter (n=1), skateboarder (n=1), pedestrians/joggers (n=6)}.
- No conflicts between road users were observed.

CRASH DATA

Crash data from 2017 - 2021 was evaluated to determine what types of traffic crashes were occurring in the vicinity of the project location, if any. No crashes were identified on E. Pitkin St. from Remington St. to Smith St within the past five years. One crash was identified three and a half blocks east of the project corridor at Newsom St and E Pitkin Street in May of 2018, involving a car with a “careless driver” and a bicyclist heading into traffic in the wrong direction.

SPEED STUDY

A speed study was conducted on Thursday, October 7th between Matthews St. and Peterson St. The posted speed limit on E. Pitkin St. is 25 mph. The 85th percentile speed was 30.7 mph. 67.3% of vehicles (n=1,032) traveled over the posted speed limit of 25 mph. Four vehicles traveled 40 - 45 mph, the top speeds recorded in the study. Additional speed study data can be found in Appendix B.

SURVEY

An online survey was developed to assess travel experience and comfort levels on E. Pitkin St. before advisory bike lane installation. The survey was distributed using the following methods:

- posted on the project website at <https://www.fcgov.com/fcmoves/east-pitkin-street>,
- distributed via email to community members who signed up on the project website to receive updates about the project,
- included in a press release notifying the public of the upcoming utilities work and road closures,
- shared via QR code on a flyer at a pop-up educational event, and
- included in FC Moves' *Momentum* e-newsletter.

A total of 77 responses were recorded from February 1, 2022, through April 21, 2022. There were 75 responses to the English version of the survey and 2 responses to the Spanish version.

How often do you use the following modes of transportation on East Pitkin Street?

	Walk	Bike	Scooter	Drive
Daily/almost every day	15	16	2	17
Once or twice a week	4	10	1	12
At least once a month	15	22	2	9
Less than once a month	7	10	5	17
Never	13	5	40	7
Grand Total	54	63	50	62

What is your comfort level using the following different transportation modes on East Pitkin Street?

	Walk	Bike	Scooter	Drive
Comfortable	22	12	2	15
Neutral	19	27	6	27
Uncomfortable	15	9	31	14
Very uncomfortable	5	14	8	4
I don't use this mode of transportation	2	3	2	2
I don't use this mode of transportation	0	0	2	1
Grand Total	63	65	51	63

Have you experienced any conflicts with other road users while traveling on East Pitkin Street? If so, please describe.

Category	Responses
No	25
Narrow bike lane	9
No response	4
Parked cars in bike lane	2
Angry/aggressive drivers	2
Other*	3
Total	49

* Other responses included: "Road is narrow and in disrepair", "A little confusion with car/bike right of way at the Remington intersection", and "Bikes sometimes riding next to each other, walkers in the bike lanes".

PUBLIC OUTREACH

The City has started raising awareness about the E. Pitkin St. advisory bike lanes using the following outreach strategies in coordination with the Utilities and Streets departments:

- public website,
- presentations,
- neighborhood meetings,
- postcard mailers,
- pop-up educational event,
- press release,
- *Momentum* e-newsletter,
- stakeholder meetings,
- e-mail updates, and
- videos.

The following website was created as a way to inform the public about the upcoming changes on E. Pitkin St.: <https://www.fcgov.com/fcmoves/east-pitkin-street>

The website currently contains the following information related to the project:

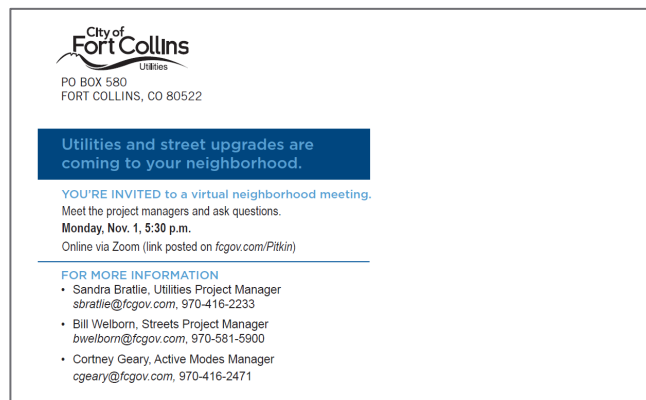
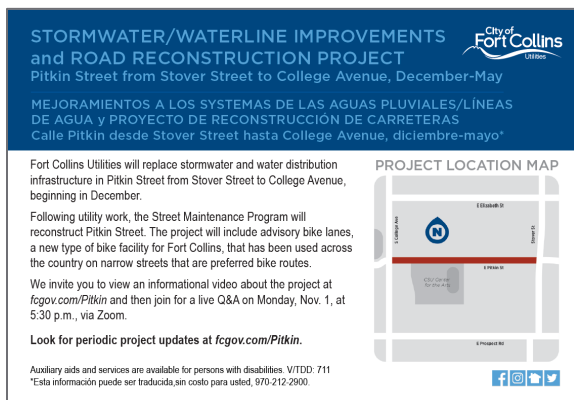
- A link to sign up for regular email updates related to the project,
- A link to the survey soliciting input from the public regarding their experience travelling along E. Pitkin St. prior to the project,
- The project overview, including video content and a link to the Bicycle Master Plan,
- Videos explaining the project and how to share the road on a street with advisory bike lanes,

- A map of the project area,
- A definition of advisory bike lanes with additional resource links,
- Parking information for those affected by construction-related street closures, and
- Contact information for the project managers

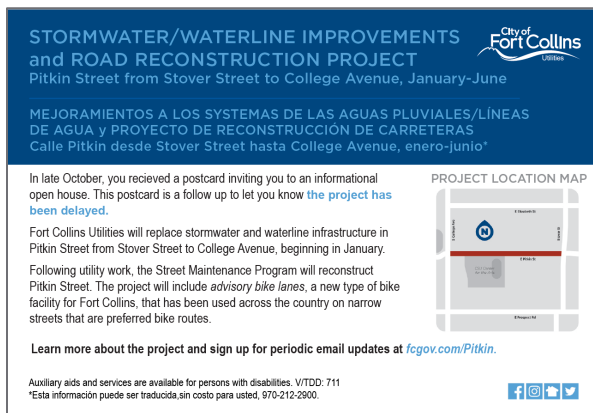
City staff presented on the E. Pitkin St. advisory bike lane project to the City’s Transportation Board on October 20, 2021 and Bicycle Advisory Committee on October 25, 2021. Minutes from the meetings are available at

<https://citydocs.fcgov.com/?cmd=convert&vid=46&docid=3526674&dt=MINUTES&board=TRANSPORTATION+BOARD&docdate=OCT-20-2021> and https://www.fcgov.com/cityclerk/files/10.25.21_bac_minutes-002.pdf?1638201212.

A virtual neighborhood meeting was held via Zoom on November 1, 2021. Two postcards were sent to residents and property owners within ¼ mile of the project area. The first postcard (below) was sent as an invitation to the neighborhood meeting.

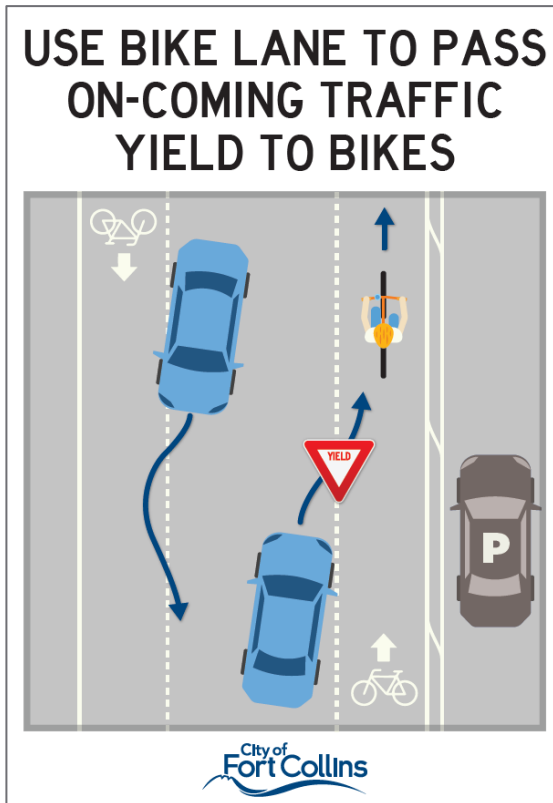


The second postcard (below) was sent to inform residents and property owners of the project delays.



A pop-up educational event was conducted in conjunction with the City’s Winter Bike to Work (or Wherever) Day event on February 11, 2022. The pop-up event was held at the CSU Annual Flower Trial Gardens, a half block southwest of the project corridor. 130 bicyclists visited the station. FC Moves staff:

- discussed the project with bicyclists,
- got their feedback on a sandwich board sign (below) to be put out on E. Pitkin St. in advance of advisory bike lane installation,
- invited them to take the pre-installation survey (survey flyer below), and
- provided fact sheets (below).



Sandwich board sign



Survey flyer

ADVISORY BIKE LANE

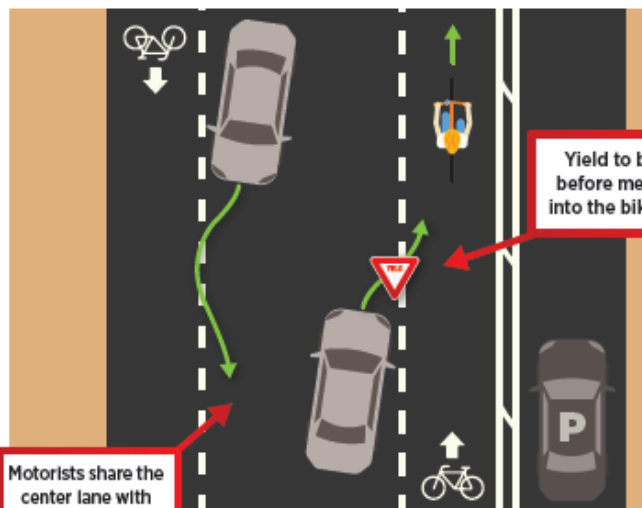
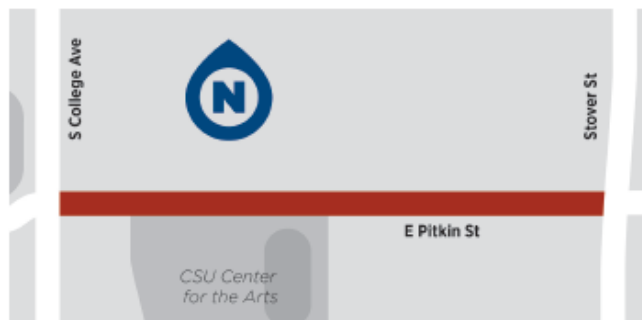
The City of Fort Collins will be repaving and restriping E. Pitkin St. from S. College Ave. to Stover St. in conjunction with Utilities upgrades in Spring 2022. The City will be restriping the street with advisory bike lanes from Remington St. to Smith St. since E. Pitkin St. is a critical multimodal corridor identified in the City's Bicycle Plan.

Advisory bike lanes are a new type of bike facility for Fort Collins that have been used in the US and around the world on narrow roads with low vehicular traffic that are preferred bike routes. The new striping is intended to improve safety for all roadway users.

Streets with advisory bike lanes have a single center lane for two-way motor vehicle traffic and dashed bicycle lanes. Motorists travel in the center lane until they need to pass an approaching vehicle. After yielding to bicyclists, motorists can merge into the advisory bike lanes to pass an approaching vehicle. After passing each other, motorists return to the center lane.

The City will conduct extensive outreach to teach people how to share the road in advisory bike lanes and evaluate traffic speeds, safety, travel behavior, and perceptions before and after the project.

To learn more, visit fcgov.com/pitkin.



22-23911 | Auxiliary aids and services are available for persons with disabilities. V/TDD: 711



The following press release was issued on February 14, 2022:



Utilities

[home](#) / [departments](#) / [utilities](#) / [news](#)

Pitkin Street Stormwater and Water Distribution Infrastructure Replacement Begins This Week

Posted on: Feb-14-2022

Beginning Wednesday, Feb. 16, Utilities crews will be working on utility infrastructure improvements in Pitkin Street at Stover Street and will proceed west to College Avenue. The work will improve capacity in the stormwater drainage system and replace aging water pipes.

Construction will impact east and west bound traffic. Rolling road closures will be in effect to minimize traffic disruptions in the neighborhood. Pedestrian access in the area will be maintained. Utilities' portion of this project is estimated to take approximately four months, weather permitting.

Following utility work, the City Streets department, in coordination with FC Moves, will repave and restripe roads, which will include adding advisory bike lanes. Pitkin Street is a critical multimodal corridor identified in the City's Bicycle Master Plan. The new striping plan is intended to improve safety for all users, including pedestrians, bicyclists, people using micro-mobility devices, and drivers. The entire project is expected to be completed by mid-June.

The City of Fort Collins is seeking feedback from people who travel on Pitkin Street. If you'd like to share your experience before and after the restriping, please take a few minutes to respond to the survey at fcgov.com/Pitkin.

Throughout the project, residents in the surrounding neighborhoods can expect heavy machinery, construction-related traffic, and stockpiles of materials. Local access, trash services and mail delivery will be accommodated. Regular work hours will be Monday-Friday, 7 a.m.-5 p.m.

This project is part of the Utilities annual pipe replacement program that is coordinated with the Streets Maintenance Program schedule for efficiency, cost effectiveness and reduced neighborhood impacts.

For more information, visit fcgov.com/Pitkin.

Sandra Brattlie, Utilities Project Manager

970-416-2233



In addition, an article was included in the February 2022 issue of the FC Moves monthly newsletter, *Momentum*. The article is can be viewed online at <https://myemail.constantcontact.com/Walk-into-Spring.html?soid=111111643500&aid=dvXVNAiSf5s>. Monthly stakeholder meetings were held with Colorado State University, primarily to discuss construction impacts, but also to discuss the advisory bike lanes. Eleven community members have signed up to receive project updates via email. The project fact sheet on page 8 has also been distributed by Utilities staff to residents who inquire about the project. FCTV, the City's video production staff, developed a video showing how to share the road on a street with advisory bike lanes. Footage of the City's bicycle ambassador volunteers riding in advisory bike lanes in Boulder, CO was recorded for the video. Additional public outreach is planned leading up to the advisory bike lane installation including another neighborhood meeting, postcard, press release, distribution of flyers, variable message boards, sandwich boards, pop-up educational event, stakeholder meetings, and a Leshar Middle School bike ride.

Appendix A

City of Fort Collins Traffic Operations

626 Linden Street, Fort Collins, CO 8052

ADT Volume Study

Pitkin
between Mathews and Peterson
PIT00-EW-21B

Start Date: 10/6/2021
End Date: 10/8/2021

10/4/2021	Monda		T esda		Wednesda		Th rsda		rida		Sat rda		S nda		Week era e	
Time	EB, -	WB, -	EB, -	WB, -	EB, -	WB, -	EB, -	WB, -	EB, -	WB, -	EB, -	WB, -	EB, -	WB, -	EB, -	WB, -
12:00 M							2	0	5	0					4	0
1:00							2	2	0	0					1	1
2:00							2	0	3	1					2	0
3:00							0	0	0	0					0	0
4:00							1	0	1	0					1	0
5:00							5	6	9	3					7	4
6:00							12	8	12	3					12	6
7:00							82	76	74	79					78	78
8:00							45	47	45	69					45	58
9:00							35	48	27	42					31	45
10:00							36	31	36	39					36	35
11:00					57	47	39	45	17	17					38	36
12:00 PM					52	50	53	39							52	44
1:00					57	48	45	48							51	48
2:00					66	42	78	60							72	51
3:00					83	86	71	63							77	74
4:00					69	56	74	64							72	60
5:00					65	54	80	56							72	55
6:00					54	32	61	50							58	41
7:00					32	23	38	37							35	30
8:00					22	8	38	10							30	9
9:00					21	6	22	6							22	6
10:00					4	4	16	3							10	4
11:00					3	2	4	1							4	2
Total	0	0	0	0	585	458	841	700	229	253	0	0	0	0	810	687
Da	0		0		1043		1541		482		0		0		1497	
M Peak ol me					11:00	11:00	7:00	7:00	7:00	7:00					7:00	7:00
					57	47	82	76	74	79					78	78
PM Peak ol me					3:00	3:00	5:00	4:00							3:00	3:00
					83	86	80	64							77	74
Comb Total	0		0		1043		1541		482		0		0		1497	
DT		DT: 1,486		DT: 1,486												

Appendix B

City Of Fort Collins Traffic Operations

626 Linden Street, Fort Collins CO. 80522-0580

Speed Study

Site Code: PIT00-EW-21B
 Comment 1: Pitkin
 Comment 2: between Mathews and Peterson
 Direction: EB, -

Start Date: 10/7/2021
 End Date: 10/7/2021

10/7/2021 Time	0 - 10 MPH	> 10 - 15 MPH	> 15 - 20 MPH	> 20 - 25 MPH	> 25 - 30 MPH	> 30 - 35 MPH	> 35 - 40 MPH	> 40 - 45 MPH	> 45 - 50 MPH	> 50 MPH	Total
0:00	0	0	0	0	2	0	0	0	0	0	2
1:00	0	0	0	1	0	1	0	0	0	0	2
2:00	0	0	0	1	0	1	0	0	0	0	2
3:00	0	0	0	0	0	0	0	0	0	0	0
4:00	0	0	0	1	0	0	0	0	0	0	1
5:00	0	0	0	1	2	2	0	0	0	0	5
6:00	0	0	0	2	6	3	1	0	0	0	12
7:00	0	1	2	19	43	15	1	1	0	0	82
8:00	0	0	1	15	22	5	2	0	0	0	45
9:00	0	0	0	4	20	9	2	0	0	0	35
10:00	1	0	1	5	20	5	4	0	0	0	36
11:00	0	0	0	7	18	13	1	0	0	0	39
12:00	1	0	3	4	29	14	2	0	0	0	53
13:00	0	0	0	9	25	7	3	1	0	0	45
14:00	0	0	3	18	35	21	1	0	0	0	78
15:00	0	0	2	8	27	28	6	0	0	0	71
16:00	0	0	2	11	34	23	2	2	0	0	74
17:00	0	1	0	11	46	19	3	0	0	0	80
18:00	0	1	1	14	34	9	2	0	0	0	61
19:00	0	0	0	5	18	13	2	0	0	0	38
20:00	0	1	1	8	15	12	1	0	0	0	38
21:00	0	0	0	8	11	2	1	0	0	0	22
22:00	0	1	1	4	4	4	2	0	0	0	16
23:00	0	0	1	0	2	1	0	0	0	0	4
Total	2	5	18	156	413	207	36	4	0	0	841

Percentage 0.2% 0.6% 2.1% 18.5% 49.1% 24.6% 4.3% 0.5% 0.0% 0.0%

Statistics

Percentile	15th	50th	85th	95th
Speed	24.1	28	31.6	34.6
Mean Speed (Average)	28.1			
10 MPH Pace Speed	25-34			
Number in Pace	616			
Percent in Pace	74.0%			
Number > 25 MPH	657			
Percent > 25 MPH	78.7%			

City Of Fort Collins Traffic Operations

626 Linden Street, Fort Collins CO. 80522-0580

Speed Study

Site Code: PIT00-EW-21B
 Comment 1: Pitkin
 Comment 2: between Mathews and Peterson
 Direction: WB, -

Start Date: 10/7/2021
 End Date: 10/7/2021

10/7/2021 Time	0 - 10 MPH	> 10 - 15 MPH	> 15 - 20 MPH	> 20 - 25 MPH	> 25 - 30 MPH	> 30 - 35 MPH	> 35 - 40 MPH	> 40 - 45 MPH	> 45 - 50 MPH	> 50 MPH	Total
0:00	0	0	0	0	0	0	0	0	0	0	0
1:00	0	0	0	0	1	0	1	0	0	0	2
2:00	0	0	0	0	0	0	0	0	0	0	0
3:00	0	0	0	0	0	0	0	0	0	0	0
4:00	0	0	0	0	0	0	0	0	0	0	0
5:00	0	0	0	1	2	2	1	0	0	0	6
6:00	0	0	1	2	2	3	0	0	0	0	8
7:00	0	0	3	30	39	4	0	0	0	0	76
8:00	0	1	3	17	16	10	0	0	0	0	47
9:00	0	0	8	14	19	7	0	0	0	0	48
10:00	0	0	5	10	13	3	0	0	0	0	31
11:00	0	0	5	18	19	3	0	0	0	0	45
12:00	0	1	0	15	19	3	1	0	0	0	39
13:00	0	0	2	19	24	2	1	0	0	0	48
14:00	0	0	1	29	23	7	0	0	0	0	60
15:00	0	1	2	18	31	9	2	0	0	0	63
16:00	0	0	7	22	30	5	0	0	0	0	64
17:00	0	1	6	23	22	4	0	0	0	0	56
18:00	0	3	2	24	18	3	0	0	0	0	50
19:00	0	0	6	13	13	5	0	0	0	0	37
20:00	0	0	2	2	6	0	0	0	0	0	10
21:00	0	0	1	4	0	1	0	0	0	0	6
22:00	0	1	1	0	1	0	0	0	0	0	3
23:00	0	0	0	1	0	0	0	0	0	0	1
Total	0	8	55	262	298	71	6	0	0	0	700

Percentage	0.0%	1.1%	7.9%	37.4%	42.6%	10.1%	0.9%	0.0%	0.0%	0.0%
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Statistics	Percentile	15th	50th	85th	95th
	Speed	21.3	25.4	29.3	31.7
	Mean Speed (Average)	25.3			
	10 MPH Pace Speed	20-29			
	Number in Pace	554			
	Percent in Pace	79.0%			
	Number > 25 MPH	375			
	Percent > 25 MPH	53.6%			

City Of Fort Collins Traffic Operations

626 Linden Street, Fort Collins CO. 80522-0580

Speed Study

Site Code: PIT00-EW-21B
 Comment 1: Pitkin
 Comment 2: between Mathews and Peterson
 Direction: Combined

Start Date: 10/7/2021
 End Date: 10/7/2021

10/7/2021 Time	0 - 10 MPH	> 10 - 15 MPH	> 15 - 20 MPH	> 20 - 25 MPH	> 25 - 30 MPH	> 30 - 35 MPH	> 35 - 40 MPH	> 40 - 45 MPH	> 45 - 50 MPH	> 50 MPH	Total
0:00	0	0	0	0	2	0	0	0	0	0	2
1:00	0	0	0	1	1	1	1	0	0	0	4
2:00	0	0	0	1	0	1	0	0	0	0	2
3:00	0	0	0	0	0	0	0	0	0	0	0
4:00	0	0	0	1	0	0	0	0	0	0	1
5:00	0	0	0	2	4	4	1	0	0	0	11
6:00	0	0	1	4	8	6	1	0	0	0	20
7:00	0	1	5	49	82	19	1	1	0	0	158
8:00	0	1	4	32	38	15	2	0	0	0	92
9:00	0	0	8	18	39	16	2	0	0	0	83
10:00	1	0	6	15	33	8	4	0	0	0	67
11:00	0	0	5	25	37	16	1	0	0	0	84
12:00	1	1	3	19	48	17	3	0	0	0	92
13:00	0	0	2	28	49	9	4	1	0	0	93
14:00	0	0	4	47	58	28	1	0	0	0	138
15:00	0	1	4	26	58	37	8	0	0	0	134
16:00	0	0	9	33	64	28	2	2	0	0	138
17:00	0	2	6	34	68	23	3	0	0	0	136
18:00	0	4	3	38	52	12	2	0	0	0	111
19:00	0	0	6	18	31	18	2	0	0	0	75
20:00	0	1	3	10	21	12	1	0	0	0	48
21:00	0	0	1	12	11	3	1	0	0	0	28
22:00	0	2	2	4	5	4	2	0	0	0	19
23:00	0	0	1	1	2	1	0	0	0	0	5
Total	2	13	73	418	711	278	42	4	0	0	1541

Percentage	0.1%	0.8%	4.7%	27.1%	46.1%	18.0%	2.7%	0.3%	0.0%	0.0%
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Statistics	Percentile	15th	50th	85th	95th
	Speed	22.4	26.8	30.7	33.4
	Mean Speed (Average)	26.8			
	10 MPH Pace Speed	20-29			
	Number in Pace	1113			
	Percent in Pace	73.0%			
	Number > 25 MPH	1032			
	Percent > 25 MPH	67.3%			