

CITY TRAFFIC ENGINEER'S REPORT

ISSUE NO. TC 771

Crosswalk and Pedestrian Beacon on SW Allen Boulevard at 141st Avenue

February 8, 2018

Background Information

Mr. Jonathan Todd Kourlas requested the installation of a marked crosswalk and a pedestrian beacon on SW Allen Boulevard at 141st Avenue to improve pedestrian safety at the intersection (see attached e-mail). The City has also received several requests from residents in the area to install a crosswalk at this location to improve pedestrian safety at the intersection.

The classification of SW Allen Boulevard is a 4 lane Arterial Street with a posted speed of 30 mph. There is median islands at the intersection with 141st Avenue and advance pedestrian warning signs with flashing beacons for both directions of traffic approaching 141st Avenue. The median islands provides a refuge area and allow pedestrians to cross the street in two stages.

A traffic count taken in August 2017 showed that Allen Boulevard east of Murray Boulevard carries approximately 26,300 vehicles per day. There have been six reported crashes on SW Allen Boulevard at 141st Avenue during the most recent three years of available crash data. Two of the crashes were rear end type crashes, three were angle type crashes and one involved a pedestrian crossing the street. The pedestrian was under the influence of drugs.

National research and guidelines published by the Federal Highway Administration (FHWA) does not recommend installing a marked crosswalk at uncontrolled locations (intersections and midblock locations with no traffic signal or stop signs on the approach of the crossing) on multilane lane roadways (four or more lanes) that carry greater than 15,000 vehicles per day with a 30 mph speed limit. This recommendation is due to the increase in pedestrian crash risk if marked crosswalks are added without other substantial crossing improvements such as a raised median islands, warning beacons or a traffic signal where warranted to improve crossing safety for pedestrian.

Recently, The Federal Highway administration terminated the interim approval for the use of Rectangular Rapid Flashing Beacons (RRFB) to supplement the pedestrian warning signs at marked crosswalks. The Manual on Uniform Traffic Control Devices (MUTCD) allows the use of circular flashing yellow beacons to supplement pedestrian crossing warning signs. The warning beacon may be pedestrian activated to increase its effectiveness in making the crossing sign more conspicuous when a pedestrian cross the roadway.

Staff is proposing to install a marked crosswalk, pedestrian crossing warning signs and pedestrian activated flashing yellow beacons on the west side of the intersection of SW Allen Boulevard and 141st Avenue.

The cost to install the crosswalk and the beacons is approximately \$25,000. The City Operations budget has allocations for the improvements.

Applicable Criteria

The applicable criteria from Beaverton Code 6.02.060A is:

- 1a (provide for safe vehicle, bicycle and pedestrian movements);
- 1b (help ensure orderly and predictable movement of vehicles, bicycles, and pedestrians);
- 2 (all proposed new traffic devices shall be based on the standards of the MUTCD).

Conclusions:

1. The addition of a marked crosswalk, pedestrian crossing warning signs and pedestrian activated flashing yellow beacons to the existing median islands on SW Allen Boulevard at 141st Avenue would improve pedestrian safety and ensure orderly and predictable movement of vehicles and pedestrians, satisfying Criteria 1a and 1b.
2. The pedestrian activated flashing yellow beacons meet the guidelines of the MUTCD, satisfying Criterion 2.

Recommendation:

1. Approve the request to install a marked crosswalk, pedestrian crossing warning signs and pedestrian activated flashing yellow beacons on the west side of the intersection of SW Allen Boulevard and 141st Avenue.

TC # 771



1" = 50'

PROPOSED FLASHING BEACON

SW 141ST AVE

SW ALLEN BLVD

PROPOSED CROSSWALK

FLASHING BEACONS

PUSH BUTTON

BEACON DETAIL

Y:\TRANSPORTATION\Drawings\2017\2017-133 - Crosswalk & Pedestrian Beacon on Allen at 141st.DWG



Crosswalk & Pedestrian Beacon on
SW Allen Blvd at 141st Ave

ENGINEERING DEPARTMENT
TRANSPORTATION DIVISION

Drawn By: GO Date: 2/13/18

Reviewed By: _____ Date: _____

Approved By: _____ Date: _____

Jabra Khasho

From: Jabra Khasho
Sent: Wednesday, November 22, 2017 11:01 AM
To: 'jontoddvandan@gmail.com'
Subject: FW: City of Beaverton Problem Report

Importance: High

Jonathan,

We are in the process of evaluating this intersection for an upgrade similar to what was installed on Millikan Way near Murray Boulevard. There are several constraints at this location that would require special attention to design work due to the topography and the right of way availability. Upon completion of the preliminary design, the Traffic Commission will hold a public hearing on the installation of a marked crosswalk and beacons. A notice of the hearing will be mailed to you once the hearing date is set.

Sincerely,

Jabra Khasho
City Traffic Engineer

From: webmanager@beavertonoregon.gov [<mailto:webmanager@beavertonoregon.gov>]
Sent: Wednesday, November 15, 2017 9:37 AM
To: Mailbox Public Works <mailboxpublicworks@beavertonoregon.gov>
Subject: City of Beaverton Problem Report
Importance: High

Citizen Request - Please Respond

Contact: Jonathan Todd Kourlas

Email: jontoddvandan@gmail.com

City of Beaverton Problem Report:

Date Submitted: Wednesday, November 15, 2017 9:37 AM

Report Type: Traffic Signals and Street Signs

Department: Public Works

Location: SW 141st and Allen

Problem Description:

On Allen in both directions before the 141st intersection there are signs that seem to indicate its a cross-walk, even with blinking lights. Then at the intersection are small concrete medians. But then there is nothing else indicating that this is a cross-walk, the medians aren't even sloped for someone to cross one side and have a refuge in the middle before crossing the other side, there are no markings on the road it self either. There is a bus stop on the other side of the road and a lot of housing on both sides, it would make sense for this to be a full cross-walk, this would especially be the easiest place to cross coming from 141st if your destination is the shopping center on the corner of Murray and Allen without back tracking to Wilson. I believe this should be rectified before an accident occurs, there should be markings on the road, the median should be set-up as a

refuge and there should be additional blinking lights and a cross-walk button, similar to the newer cross walk on Millikan near Murray that connects the Providence Business Center with the shopping center across the street. Thank you for your time.

Submitted by

Name: Jonathan Todd Kourlas

Address: 13975 SW Lisa Ln Beaverton, OR 97005

Phone:

Email: jontoddvandan@gmail.com

MEMORANDUM

Beaverton Police Department



DATE: December 21, 2017

TO: Jabra Khasho, City Transportation Engineer

FROM: Sergeant Steve Schaer

SUBJECT: Traffic Commission Issues No. TC 771

On review of the City Traffic Engineer's report, and my visitation of the location, I concur with the Traffic Engineer's recommendation to approve the request to install a marked crosswalk, pedestrian crossing warning signs and pedestrian activated flashing yellow beacons on the west side of the intersection of SW Allen Boulevard and 141st Avenue.

Sgt Steve Schaer