

CITY OF JOHNS CREEK
PUBLIC WORKS

INTERSECTION PRIORITIZATION POLICY

I. PURPOSE

Through the City of Johns Creek's planning processes numerous intersections have been identified that need to be investigated to improve operations and safety for drivers and pedestrians. In order to objectively prioritize these intersections and the appropriate design solution, the following metrics and prioritization program was developed.

II. CITY INTERSECTION PRIORITIZATION PROGRAM

A. Goals

The goals of the city intersection prioritization program are to improve:

1. Driver safety
2. Pedestrian safety
3. Traffic flow

B. Project Prioritization

The Public Works Department presented the initial priority list of intersection improvement projects to the City Council in the spring of 2019. Annually the Department will review the list and make recommendations for construction of improvements as part of the annual budgeting process.

The project prioritization method is outlined below and seeks to meet the goals stated above. In a given year, further adjustment of the prioritization will occur when the costs and constructability is considered against the capital budget for that year. Other factors such as alignment with other capital projects, adjacent land development activity, and connection to adjacent jurisdictions will also be considered when finalizing the project list recommended for construction each year.

In developing the priority list, the Public Works Department compiled data for all intersections identified as needing improvement and will rate the intersections using the following criteria. The crash data and other data available through existing City data sources will be updated every two years. The traffic counts and alternatives analysis completed by outside consultants will be updated every four to five years as funding is available.

Each year, projects will then move forward to the concept phase for further evaluation of the proposed solution, public engagement and cost analysis. Once a project is proven viable and solves the concerns at the intersection, it would move forward to engineering, right of way and construction. Below are the factors and scoring metrics used to help prioritize intersection solutions:

1. **Safety** (30 points available, 75% total score)
 - Crash History (15 Points)
 - ◆ High accident area (10+ crashes) 15
 - ◆ Some accidents (5-9 crashes) 9
 - ◆ No known accidents (0-4 crashes) 3
 - Crash Severity (5 Points)
 - ◆ 2 or More Injuries 5
 - ◆ 1 Injury 3
 - ◆ 0 Injuries 0
 - Intersection Sight Distance (10 Points)
 - ◆ 2 or More Turning Directions Fail 10
 - ◆ 1 Turning Direction Fails 5
 - ◆ 0 Turning Directions Fails 0

2. **Traffic Calming** (10 points available, 25% total score)
 - Traffic Calming measures currently on Main Road (5 Points)
 - ◆ Yes 0
 - ◆ No 5
 - Speeding (5 Points)
 - ◆ Cars Speeding 20 MPH Over Limit (15+) 5
 - ◆ Cars Speeding 20 MPH Over Limit (8-14) 3
 - ◆ Cars Speeding 20 MPH Over Limit (0-7) 1

The above priority list yields a total of 40 points available for each intersection to be analyzed.