

## Cheam Crossroads

### The Broadway, Station Way, High Street and Ewell Road (A232)

#### Background to scheme:

The scheme was initially identified as part of the X26 Bus Study in 2017 to improve the journey times of the X26 and subsequently other buses on the same route (151, 213). However, following a near-miss incident between a pedestrian and a turning vehicle at this junction, investigations widened for a scheme to improve pedestrian safety and comfort as the most important benefit to seek.

#### Location:



#### Investigations:

Video surveys of the junction were carried out in September 2018, and showed a significant number of right turning vehicles proceeding through the junction once the green man was illuminated. TfL's Asset Operations, increased the time of the inter-green to the pedestrian stage to provide more time to vehicles to clear the junction.

#### Proposals:

To separate The Broadway and Station Way phases into their own stages, thereby removing the right turning conflicts and the need for vehicles to wait in the middle of the junction.



## Impacts:

**Walking** - Pedestrians will benefit from a reduced risk of vehicles turning during the green man or inter-green period. The junction already operates with an all red to traffic stage, within a 120s cycle time in the peaks, and this is not proposed to change. Wait times will not be affected, but the ease and comfort of crossing during the green man will be improved.

**Cycling** - There are no proposed changes to cycling. The same signal cycle times are expected to be in use, although with the Broadway and Station Way running in their own stages, any right turning cyclists will no longer have to wait inside the junction with vehicles.

**Bus Network** - There are some improvements to some routes, and a worsening for others. Overall the impact is fairly neutral. Due to the introduction of an additional signal stage in the junction, there is an overall reduction in junction capacity. This has resulted in some increases to bus journey times. Southbound buses on The Broadway are expected to improve slightly due to the removal of queuing traffic inside the junction that can block southbound vehicles on occasion. All of the differences are within the ranges of 0-30s and 30-60s, with southeastbound vehicles from The Broadway towards Sutton improving in both peaks.

AM Peak					
Route description	Direction	Frequency (bus/hr)	JT Time Bands (mins)		
			Base Model	Do Something	Difference
East arm to North arm (213, X26, 151)	North	14	3-5 mins	3-5 mins	0-30 secs
North arm to East arm (213, X26, 151)	East	14	3-5 mins	3-5 mins	-(30-60) secs
West arm to South arm (470)	South	2	1-2 mins	2-3 mins	30-60 secs
South arm to West arm (470)	West	2	2-3 mins	2-3 mins	0-30 secs

  

PM Peak					
Route description	Direction	Frequency (bus/hr)	JT Time Bands (mins)		
			Base Model	Do Something	Difference
East arm to North arm (213, X26, 151)	North	14	3-5 mins	3-5 mins	30-60 secs
North arm to East arm (213, X26, 151)	East	14	5-10 mins	3-5 mins	-(0-30) secs
West arm to South arm (470)	South	2	2-3 mins	3-5 mins	30-60 secs
South arm to West arm (470)	West	2	2-3 mins	2-3 mins	30-60 secs

**Freight and Servicing** - There is a reduction in capacity at the junction, however overall the impact is fairly neutral.

**General Traffic** - Due to the introduction of an additional signal stage in the junction, there is an overall reduction in junction capacity. This has resulted in some increases to general traffic journey times. Southbound vehicles on The Broadway are expected to improve slightly due to the removal of queuing traffic inside the junction that can block southbound vehicles on occasion. All of the differences are within the ranges of 0-30s and 30-60s, with south-east bound vehicles from Broadway improving in both peaks.

**Taxis** - There is a reduction in capacity at the junction, however overall the impact is fairly neutral

**Next Steps: Engagement Timetable**

Officer/Lead	Email	Date
[REDACTED]	[REDACTED]	15 August

Transport Lead	Email	Date
[REDACTED]	[REDACTED]	19 August
[REDACTED]	[REDACTED]	19 August

Ward Cllrs	Email	Date
[REDACTED]	[REDACTED]	26 August
[REDACTED]	[REDACTED]	26 August
[REDACTED]	[REDACTED]	26 August

**Close for Comments/Observations:**

All Comments to be collected and presented no later than 16 September 2019.

**Send to:**

[REDACTED]  
Local Communities & Partnerships

[REDACTED]

**Implementation:**

October 2019

