

HIGH SPEED RAIL (LONDON - WEST MIDLANDS)

Supplementary Environmental Statement 2 and Additional Provision 3 Environmental Statement

Volume 5 | Technical appendices
Transport Assessment Annexes
TR-001-000 (Part 2 of 2)

September 2015

SES2 and AP3 ES 3.5.2.2



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1 Introduction

- 1.1.1 Regional Railplan is a strategic public transport assignment model now developed and managed by Transport for London (TfL); it was initially developed by London Transport in the early 1990s.
- 1.1.2 Historically, Railplan has been primarily used for the morning peak period (07:00 to 10:00) on an “average” Monday to Friday weekday in a neutral month. However, inter-peak and evening peak versions have also been developed although these are used less frequently. For the assessment of HS2, TfL and HS2 Ltd agreed that the AM peak period and PM peak period models should be used. TfL are planning to undertake inter peak period model runs for the HS2 assessment but these have yet to be undertaken and are not therefore covered in this report.
- 1.1.3 The model contains the service patterns for public transport modes within the South East of England, with a focus on London and for rail routes serving London during the modelled periods.
- 1.1.4 This Model Performance Report (MPR) relates to Railplan V7, which was the version adopted for testing HS2 construction and operation scenarios for the AP03 option. RailplanV7 is calibrated to a 2011 base year and has future years of 2021, 2026, 2031 and 2041. The public transport demand is derived from LTSv7 (the London Transportation Studies model - a strategic multi-modal land-use transport model for the London region) which has been updated from the previous 2007 base to include rebased census population and car ownership, new GLA population and employment forecasts and updated networks and services. Demand is assigned to the optimal routes in the network, being a combination of rail, underground, light rail or bus usage, together with walk for shorter journeys as well as for interchange.
- 1.1.5 In line with the work undertaken for the hybrid Bill, Railplan, with appropriate feeds for long distance rail demand from the DfT's PLANET model, was agreed as the most appropriate model for assessing the public transport effects of the HS2 proposals within London. TfL have taken the lead on the development of the future baseline and future baseline plus operation (i.e. with HS2) scenarios. The assumptions underlying the testing, details of the coding of HS2 options and model results have been discussed at regular bi-weekly meetings involving TfL, Network Rail (NR), HS2 Ltd. and their consultants for Euston (C220) and London Metropolitan (C221). TfL have incorporated feedback from this review process which has been included in revised Railplan runs for the base and future years.
- 1.1.6 This Model Performance Report is focussed on the 2011 base year model.

2 Guidance on public transport model validation

- 2.1.1 Guidance on the validation of public transport models is provided within DfT WebTAG (Unit M3.2) which states, with regard to validation public transport assignment models:

- 2.1.2 'The validation of a public transport passenger assignment model should involve three kinds of check:
- validation of the trip matrix;
 - network and service validation; and
 - assignment validation
- 2.1.3 The Department's recommendation is that across modelled screenlines, modelled flows should, in total, be within 15% of the observed values. On individual links in the network, modelled flows should be within 25% of the counts, except where observed hourly flows are particularly low (less than 150 passengers per hour).'

3 Railplan model validation

- 3.1.1 The Railplan model for 2011 has been validated by TfL at a strategic level. Earlier advice from TfL (technical note "Regional Railplan Validation", TfL Planning (Policy Analysis), October 2011 noted:
- 3.1.2 *"for more localised studies it is recommended that users review flows, boarders and alighters and general validation statistics/performance prior to undertaking work. It may be necessary to make localised adjustments to the model to get the most out of it at a localised level."*
- 3.1.3 This is considered good practice and , in accordance with the recommendation by TfL, additional local review and general validation of the model has been undertaken at and around Euston Station, for the AM and PM Peak Periods, and is summarised in this Report.
- 3.1.4 Observed data has been taken from a combination of:
- DfT Rail Statistics (Table RA10203, Central London arrivals and departures by rail in on a typical autumn weekday, by station and time band, <https://www.gov.uk/government/statistical-data-sets/raio2-capacity-and-overcrowding> ;
 - other data from TfL including CAPC data;
 - DfT PIXC (Passengers in Excess of Capacity) data;
 - RODS data; and
 - BODS data.

3.2 Headline validation statistics

- 3.2.1 The results for Euston from Railplan v7 are reproduced in Table 1 below. More detailed localised investigations are covered later in this report.

Table 1: Railplan validation results for Euston (TfL): NR passenger flows (2011). 2011 Autumn CAPC data, TfL

Time Period	Inbound			Outbound		
	Observed	Modelled	% difference	Observed	Modelled	% difference
AM Peak Period	24,782	27,515	11%	7,538	8,189	9%
PM Peak Period	10,236	12,421	21%	24,251	27,240	12%

3.2.2 It can be seen that at this localised level, both the AM and PM Peak Period models generally meet the DfT model validation guidance in the peak directions, as they validate within 15% of observed values (assuming screenline guidance). The PM Peak Period inbound is the poorest fit with modelled some 20% higher than observed but this is a considerably lower flow than in the peak directions.

4 2011 AM peak model

4.1 Base model review

4.1.1 A review has been undertaken on the 2011 Railplan AM Peak Period model received from TfL. The checks involved interrogating model scenario run details, the model network, passenger demand and model assignment results.

4.1.2 The following sections outline the review undertaken on Euston Station interchange and the coding of public transport networks in Railplan. In addition to these model coding checks, the model validation around Euston was reviewed to check the strategic public transport assessment at a local level.

4.1.3 No specific validation exercise has been undertaken on Old Oak Common station rail services as this facility does not exist in the 2011 model.

Euston station coding

4.1.4 A number of checks were undertaken on the Euston Station coding within the Railplan model. The schematic representation of interchange adopted in Railplan was checked for accuracy at Euston Station.

4.1.5 The representation of walk links in the station was also reviewed. In particular, the total passenger flows between the platforms and the station entrance were compared to the total passenger flows from the station entrance to the bus/walk network.

Public transport network coding

4.1.6 Detailed investigation was undertaken for the coding of local Bus routes, National Rail and Underground at Euston Station.

4.1.7 Some minor anomalies were found on local bus routes around, and terminating at, Euston. However, these are unlikely to have more than localised impacts, as bus passengers are permitted to walk along the bus route in the model; hence only local stop usage would be affected.

4.1.8 No significant anomalies in National Rail, Underground or bus networks were found in the network checking.

4.2 Local validation

4.2.1 The local validation analysis was undertaken on three levels:

- station interchange validation;
- network (link) validation; and
- bus validation.

Interchange validation

4.2.2 A summary of the station interchange validation is presented in Table 2, using data from the RailplanV7 and 2011 RODS data.

Table 2: Station interchange validation, 07:00 to 10:00 (2011): passenger flows

	Mode	Observed	RailplanV7	Difference	Relative difference
AM Peak Interchange	Entering LU	13,175	15,228	2,053	16%
	Leaving LU	11,925	11,333	-592	-5%
	Interchanging at LU	12,821	11,224	-1,597	-12%
	Total LU	37,921	37,785	-136	0%
	National Rail to LU	9,192	14,627	5,435	59%
	LU to National Rail	2,705	5,263	2,558	95%

Source of passenger flows: rail from Railplan V7, LU derived from TfL RODS data

4.2.3 The Railplan model overestimates the number of National Rail passengers arriving at Euston Station in 2011 during the AM Peak Period by 11% (2% on Suburban services and 40% on Inter-City services).

4.2.4 Railplan flows from the Underground in total validate well, being within 5% of the observed values, whilst the total flows to LU are slightly high at 16%.

4.2.5 Because of the impact of ticket pricing, particularly for National Rail passengers, Railplan has a tendency to over-estimate the interchange between National Rail and LU services at National Rail termini stations such as Euston, and under-estimate the transfer to street-based sub modes (walk, cycle, car/taxi and bus); this is apparent in the results where the majority of passengers entering the LU station are from National Rail.(14,627 of the total 15,228). In percentage terms these differences are reasonably high (59% National Rail to LU, 95% LU to National Rail although the absolute numbers for the latter are relatively low). Therefore, this overestimation should be taken into consideration when interpreting forecast year flows, particularly for station design purposes.

4.2.6 In conclusion, the difference between observed and modelled AM peak period flows indicate a good level of validation for LU stations although the percentage of National Rail passengers interchanging with LU services appears to be overestimated.

Link validation (NR and LU)

4.2.7 In order to demonstrate the suitability of Railplan for the assessment of passenger volumes and crowding, a link-based validation was also undertaken around Euston. This is presented in Table 3.

Table 3: Link validation, 07:00 to 10:00 (2011): passenger flows

	Direction	Modelled	Observed	% difference
National Rail				
Inbound sub-total	-	27,515	25,632	7%
Outbound sub-total	-	8,189	7,775	5%
Underground				
Victoria line, north of Euston	Northbound	17,597	14,108	25%
	Southbound	49,646	50,068	-1%
Victoria line, south of Euston	Northbound	22,405	18,673	20%
	Southbound	58,249	56,712	3%
Northern line (Bank branch), north of Euston	Northbound	12,766	10,806	18%
	Southbound	25,148	25,349	-1%
Northern line (Bank branch), south of Euston	Northbound	12,308	10,549	17%
	Southbound	21,999	25,935	-15%
Northern line (Charing Cross branch), north of Euston	Northbound	8,294	7,592	9%
	Southbound	22,795	21,942	4%
Northern line (Charing Cross branch), south of Euston	Northbound	7,756	8,723	-11%
	Southbound	25,048	21,003	19%
North of Euston northbound sub-total (LU)	Northbound	38,657	32,506	19%
North of Euston southbound sub-total (LU)	Southbound	97,589	97,359	0%
South of Euston northbound sub-total (LU)	Northbound	42,469	37,945	12%
South of Euston southbound sub-total (LU)	Southbound	105,296	103,650	2%
Total		319,715	304,867	5%

Source of passenger flows: rail from Railplan v7, LU derived from TfL RODS data

- 4.2.8 Total modelled inbound and outbound flows on National Rail are within 7% inbound (peak direction) and 5% outbound, well within the DfT validation guidance of 15% of the observed.
- 4.2.9 North of Euston, total modelled northbound and southbound flows on the Underground are within 19% and 0% respectively of the observed, giving an excellent match for the heavier southbound direction and within the DfT validation guidance. Northbound flows are just outside the DfT guidance but this flow is in the counter peak direction and about 1/3 of the heavier southbound flow.
- 4.2.10 South of Euston, total modelled northbound and southbound flows on the Underground are within 12% and 2% respectively of the observed, again within the DfT validation guidance.
- 4.2.11 Individual modelled link flows meet the DfT validation requirements (25%) in all cases. The match between modelled and observed is particularly strong in the peak direction. North of Euston, the percentage difference between modelled and observed in the southbound (peak) direction is -1% on the Victoria line, -1% on the Northern line (Bank branch) and 4% on the Northern line (Charing Cross branch).
- 4.2.12 In conclusion, the link flows at Euston show an excellent validation, all within the DfT criteria and an improvement on Railplan 6 where a number of counter peak links were outside the DfT criteria.

Bus validation

- 4.2.13 Table 4 shows how Railplan bus boarding and alighting passengers within a 'cordon' around Euston Station compares with observed data.

Table 4: Bus 'cordon' validation, 07:00 to 10:00 (2011): passenger flows

Railplan			BODS			Percentage difference		
Board	Alight	Total	Board	Alight	Total	Board	Alight	Total
3,292	5,264	8,556	3,658	5,204	8,862	-10%	1%	-3%

BODS = TfL bus origin destination surveys for 2007, updated to 2011

- 4.2.14 It should be noted that the previous (Railplan V6.23) 'Regional Railplan Validation' Technical Note states that bus boarding and alighting validation is good at an aggregate sub-regional level but that flow validation is weak on an individual link basis.
- 4.2.15 Railplan bus usage within the Euston cordon is 3% lower than observed, which falls within DfT validation guidance, even though:
 - BODS is, in itself, an estimate of passenger movements derived from a complex data collection exercise, rather than a direct observation or counts);
 - there is limited representation of 'short hop' bus journeys in the demand data derived from LTS and is a reflection of the wider weak link flow validation; and
 - Railplan does not take account of fares and ticketing issues in the route and sub mode choice; as a result, the split between bus and walk for local journeys is poorly handled.

4.3 Conclusions – 2011 AM peak model

- 4.3.1 It is concluded that the 2011 AM Peak Period model is a reasonable basis for the HS2 Level Deck Option Transport Assessment, as the overall passenger flow in and out of Euston Station, the overall interchange flow at Euston Station, and the overall link validation for National Rail all meet DfT public transport model validation guidance. This is considered reasonable given the scale and complexity of the model.
- 4.3.2 All LU links identified meet the DfT model validation guidance. As these are for individual flows within a strategic model, in both the peak and contra-peak directions, this is considered a good basis for forecasting the effects of HS2.
- 4.3.3 As with all such models, the change in flows between tests should offer greater confidence than the absolute values in any particular test.

5 2011 PM peak model

5.1 Base model review

- 5.1.1 A review has been undertaken on the 2011 Railplan PM Peak Period model received from TfL. The same checks were undertaken as for the AM Peak Period model, as presented in the following sections.

5.2 Local validation

- 5.2.1 The local validation analysis was undertaken on three levels:
- Station interchange validation; and
 - Network (link) validation;
 - Bus validation.

Interchange validation

- 5.2.2 A summary of the station interchange validation is presented in Table 5, using data from RODS, as for the AM peak period.

Table 5: Station interchange validation, 16:00 to 19:00 (2011): passenger flows

	Mode	Observed	Railplan	Difference	Relative Difference
PM Peak Interchange	Entering LU	13,536	12,698	-838	-6%
	Leaving LU	16,679	17,463	784	5%
	Interchanging at LU	12,829	10,354	-2,475	-19%
	Total LU	43,044	40,515	-2,529	-6%
	National Rail to LU	5,411	8,349	2,938	54%
	LU to National Rail	8,741	15,680	6,939	79%

Source of passenger flows: Rail from Railplan V7, LU derived from TfL RODS data

- 5.2.3 Railplan flows from the Underground in total validate well, being within 6% of the observed values, with total flows to LU at 5%.
- 5.2.4 The Railplan model overestimates the number of National Rail passengers arriving at Euston Station in 2011 during the PM Peak Period by 20% (-13% on Suburban services and +50% on Inter-City services).
- 5.2.5 Railplan flows from the Underground in total validate well, being within 6% of the observed values, which is within the DfT guidance. However, as with the AM peak, there is a reasonably high percentage difference between observed and modelled National Rail to LU and vice versa. (54% National Rail to LU, 79% LU to National Rail). Therefore, this overestimation should be taken into consideration when interpreting forecast year flows, particularly for station design purposes.

Link validation (NR and LU)

- 5.2.6 A link-based validation was undertaken around Euston for the PM peak period, as shown in Table 6.

Table 6: Link validation, 16:00 to 19:00 (2011): passenger flows

	Direction	Modelled	Observed	% difference
National Rail				
Inbound sub-total	-	12,421	10,972	13%
Outbound sub-total	-	27,240	25,094	9%
Underground				
Victoria line, north of Euston	Northbound	47,753	44,152	8%
	Southbound	27,326	22,017	24%

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	Direction	Modelled	Observed	% difference
Victoria line, south of Euston	Northbound	59,069	50,380	17%
	Southbound	33,094	27,033	22%
Northern line (Bank branch), north of Euston	Northbound	20,999	22,316	-6%
	Southbound	15,079	13,996	8%
Northern line (Bank branch), south of Euston	Northbound	20,394	22,497	-9%
	Southbound	14,383	15,313	-6%
Northern line (Charing Cross branch), north of Euston	Northbound	22,514	19,103	18%
	Southbound	14,454	13,989	3%
Northern line (Charing Cross branch), south of Euston	Northbound	23,069	22,519	2%
	Southbound	15,884	14,121	12%
North of Euston northbound sub-total (LU)	Northbound	91,266	85,571	7%
North of Euston southbound sub-total (LU)	Southbound	56,859	50,002	14%
South of Euston northbound sub-total (LU)	Northbound	102,532	95,396	7%
South of Euston southbound sub-total (LU)	Southbound	63,361	56,467	12%
Total		353,679	323,502	9%

Source of passenger flows: Rail from Railplan V7, LU derived from TfL RODS data

- 5.2.7 Total modelled outbound and inbound flows on National Rail are 9% and 13% of the observed, which meets the DfT validation guidance of 15%.
- 5.2.8 North of Euston, total modelled northbound and southbound flows on the Underground are within 7% and 14% respectively of the observed, both within the DfT guidance for screenline flows of 15%.
- 5.2.9 South of Euston, total modelled northbound and southbound flows on the Underground are within 7% and 12% respectively of the observed, again both within the DfT guidance for screenline flows of 15%.
- 5.2.10 Individual modelled link flows meet the DfT validation guidance of 25% without exception. In general, modelled flows in the peak (northbound) direction show the better validation. For example, north of Euston, modelled flows on the Victoria line, Northern line (Bank branch) and Northern line (Charing Cross branch) are within 8%, -6% and 18% respectively of observed flows.

Bus validation

5.2.11 Table 7 shows the comparison of Railplan bus boarding and alighting passengers within a 'cordon' around Euston Station with observed data.

Table 7 : Bus 'cordon' validation, 16:00 to 19:00 (2011): passenger flows

Railplan			BODS			Percentage difference		
Board	Alight	Total	Board	Alight	Total	Board	Alight	Total
6,194	7,828	14,022	5,507	6,028	11,535	12%	30%	22%

BODS = TfL Bus Origin Destination Surveys

5.2.12 Railplan bus usage within the Euston cordon is 22% higher than observed, which falls just short of DfT validation guidance.

5.2.13 It should also be noted that the PM Peak Period model is less well developed by TfL than the AM Peak Period model, and a poorer level of local validation may reflect this lower level of model development.

5.3 Conclusions – 2011 PM peak model

5.3.1 The 2011 PM Peak Period model validates slightly less well than the AM Peak Period model, but with the National Rail screenline peak and counter peak direction LU screenline all meeting the DfT public transport model validation guidance. On an individual link basis, all LU lines fall within the DfT guidance of 25% without exception.

5.3.2 The slightly poorer validation is probably a reflection of the fact that the PM Peak Period model is less well developed than the AM Peak Period model.

5.3.3 As with all such models, the change in flows between tests should offer greater confidence than the absolute values in any particular test.

Modelling performance report (Cii)

- supplementary report on CLoHAM (P₃) MPR for AP₃

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1 Introduction

1.1.1 This Model Performance Report (MPR) covers the development of the Central London Highway Assignment Model (CLOHAM) to provide a revised base year model on which to base the Transport Assessment for the revised scheme for Euston station and Approach (CFA1). As such, the model will be used for:

- provision of traffic data on which to base the sound and air quality assessment, community assessment and socio-economic assessment for the construction and operational phases of HS2;
- provision of changes in traffic and HGVs for the construction and operational phases of HS2 to undertake the assessment of significance for the Environmental Statement;
- provision of changes in traffic and delay to inform the Transport Assessment for the revised scheme; and
- provision of changes in traffic flows between the base year and forecast scenarios for application to local models.

1.1.2 This report covers the performance of the updated CLOHAM model against observed traffic flow and journey time data, model convergence and a commentary on how the model has performed in forecast mode.

2 Background

- 2.1.1 Following discussions in early summer 2012 between HS2 and TfL, it was agreed that the Central London and West London Highway Assignment Models (CLOHAM and WeLHAM respectively) would provide the most appropriate basis for assessing the highway effects of the construction and operational phases of HS2 in London, with CLOHAM being primarily used to assess the construction and operational effects around Euston Station and WeLHAM for the remainder of the HS2 route in London.
- 2.1.2 The highway assignment models (HAM) for the hybrid Bill Transport Assessment were developed by TfL for CLOHAM and WeLHAM; the models used are referred to as 'Production Version 1' with the congestion charging western extension zone (WEZ) removed from CLOHAM. CLOHAM was recalibrated using up-to-date observed count and journey time data collected in 2012.
- 2.1.3 As part of their planned updates, TfL have since developed Production Versions 2 (P2) of the HAMs and are currently developing production version 3 (P3) which includes extensive network updating and introduced greater consistency across the HAMs which were developed at different times. As part of this process, TfL have developed a 'master' model for London called LoHAM from which the component HAMs, including CLOHAM, are derived. Production V3 also comprises an extensive overhaul of traffic signal data within CLOHAM as well as matrix calibration based on extensive survey data from Autumn 2012 together with the data collected in the environs of Euston Station by Arup in summer 2012.
- 2.1.4 As a result of the programme for the Level Deck Option, TfL provided a preliminary version of CLOHAM P3 as of July 2014, recognising that TfL's work on P3 is on-going and due to conclude in 2015 .
- 2.1.5 With respect to the level of model performance and guidance recommended, it should be noted that HS2 will deliver large volumes of rail passengers into Euston station in the morning peak, the majority of whom will use LU, bus, rail, walk or cycle as onward modes in order to reach their ultimate destination. The public transport effects will be wholly assessed using TfL's- Railplan model. The highway effects for each phase are likely to be more modest and can be summarised as:
- Construction phase – effect of any temporary road closures, changes to taxi pick up/set down arrangements, removal of car parking plus construction traffic; and
 - Operational phase - effect of any permanent changes to the higher network as part of the scheme, together with changes in volume and arrangements for taxi pick up/set down movements, offset by removal of car parking at the station.

3 Calibration and validation data

3.1 Introduction

3.1.1 The data available for the recalibration and revalidation of CLoHAM can be summarised as:

- June & July 2012 data collected by Arup in the environs of Euston station;
- Autumn 2012 data collected by TfL; and
- Trafficmaster data provided by TfL for a weekday November 2012 peak hour.

3.2 Arup July 2012 Euston data

3.2.1 A data collection exercise was undertaken in June/July 2012 by Arup in the vicinity of Euston station. Count data comprised manual classified counts (MCCs) at junctions and on links, generally supported by automatic traffic counts (ATCs). There are some known issues with some of the busier sites where the ATCs appear to under-represent the MCC counts. Journey time surveys using the moving car observer (MCO) method were undertaken in each direction on four routes around Euston.

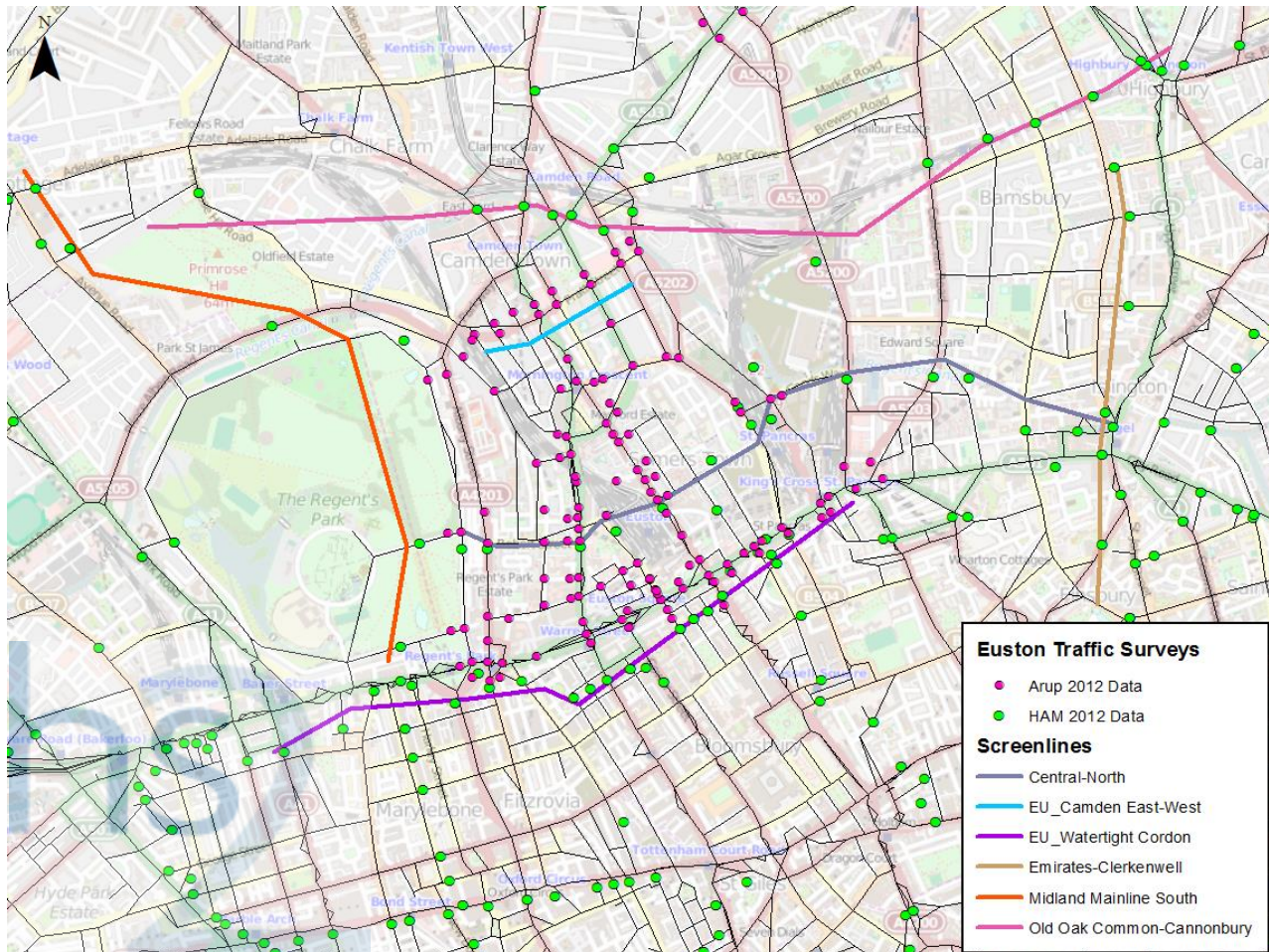
3.3 Autumn 2012 TfL Count data

3.3.1 TfL performed a large data collection exercise in 2012. This count data was "normalised" to the neutral month of November and used in the HAM calibration and validation.

3.3.2 This data, in combination with the Arup 2012 data was used to form the calibration screenlines used in the matrix estimation process.

3.3.3 Figure 1 shows the location of the observed count datasets and four north-south and two east-west calibration screenlines agreed with TfL as being appropriate for local validation round Euston. Except for the "EU_Camden East-West" screenlines, screenlines were derived from existing CLoHAM TfL screenlines.

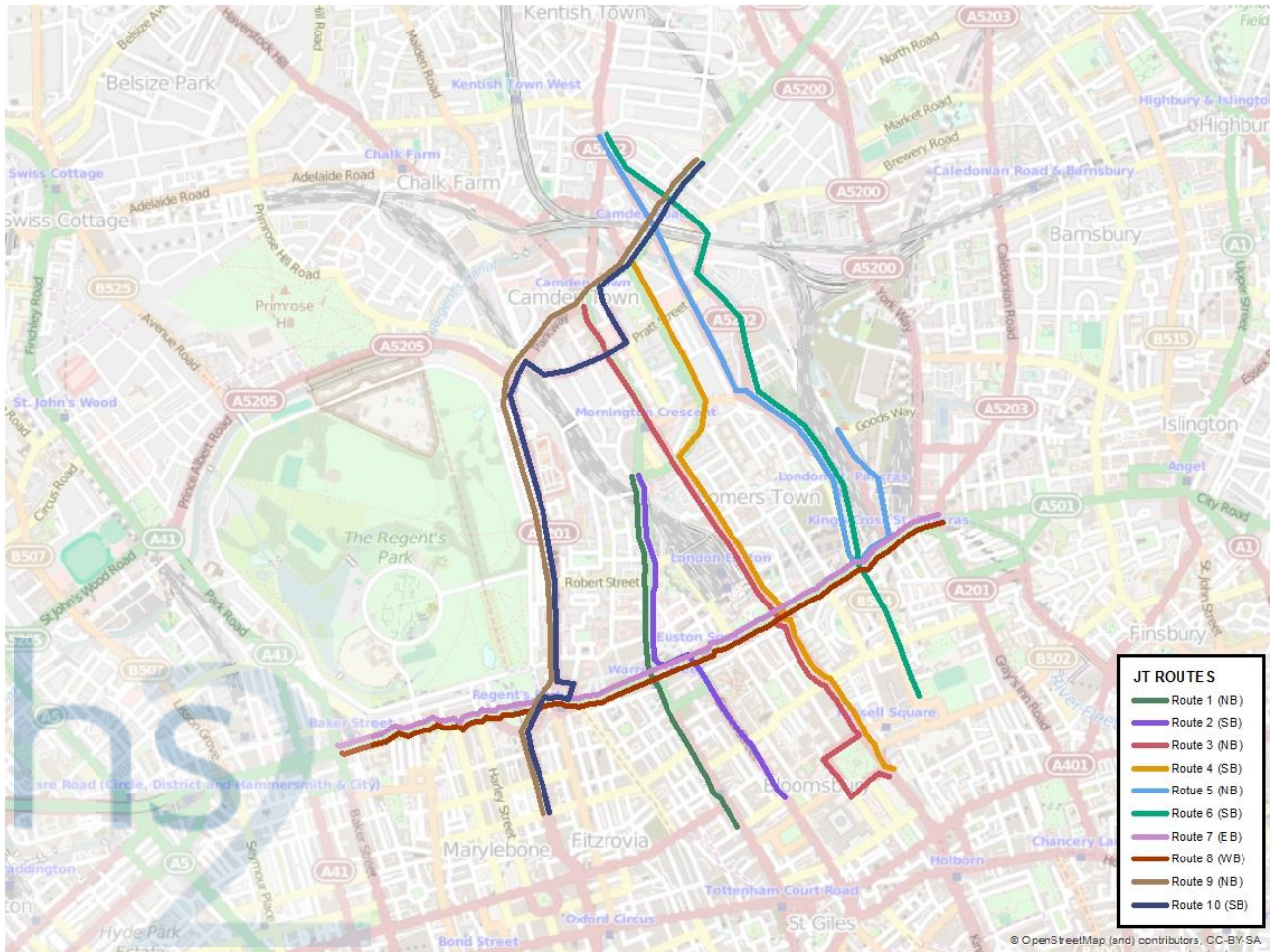
Figure 1: Count data around Euston and calibration screenlines



3.4 Trafficmaster data

- 3.4.1 Weekday November 2012 Trafficmaster data was provided by TfL in order to assess modelled journey time performance. Peak hour data rather than 3 hour peak period data was used as it better represents the peak hour conditions (shoulder hours generally having faster journey times/speeds) than an average of the Trafficmaster 3-hour peak period.
- 3.4.2 The ten journey time routes set out in Figure 2 were identified for journey time calibration. Some routes were derived from existing LoHAM routes while other routes, such as Routes 1 and 2, were newly created and required processing of Trafficmaster data. These routes were identified in order to capture the major journey time routes around Euston Station.

Figure 2: CLoHAM journey time routes



4 Calibration process

4.1 Introduction

4.1.1 Recalibration of the CLoHAM model included two elements, modification of any known network inconsistencies and errors in the model, together with the inclusion of additional roads around Euston station and recalibration of the demand matrix based on 2012 observed count data. These are explained in turn below.

4.2 Local model network improvements

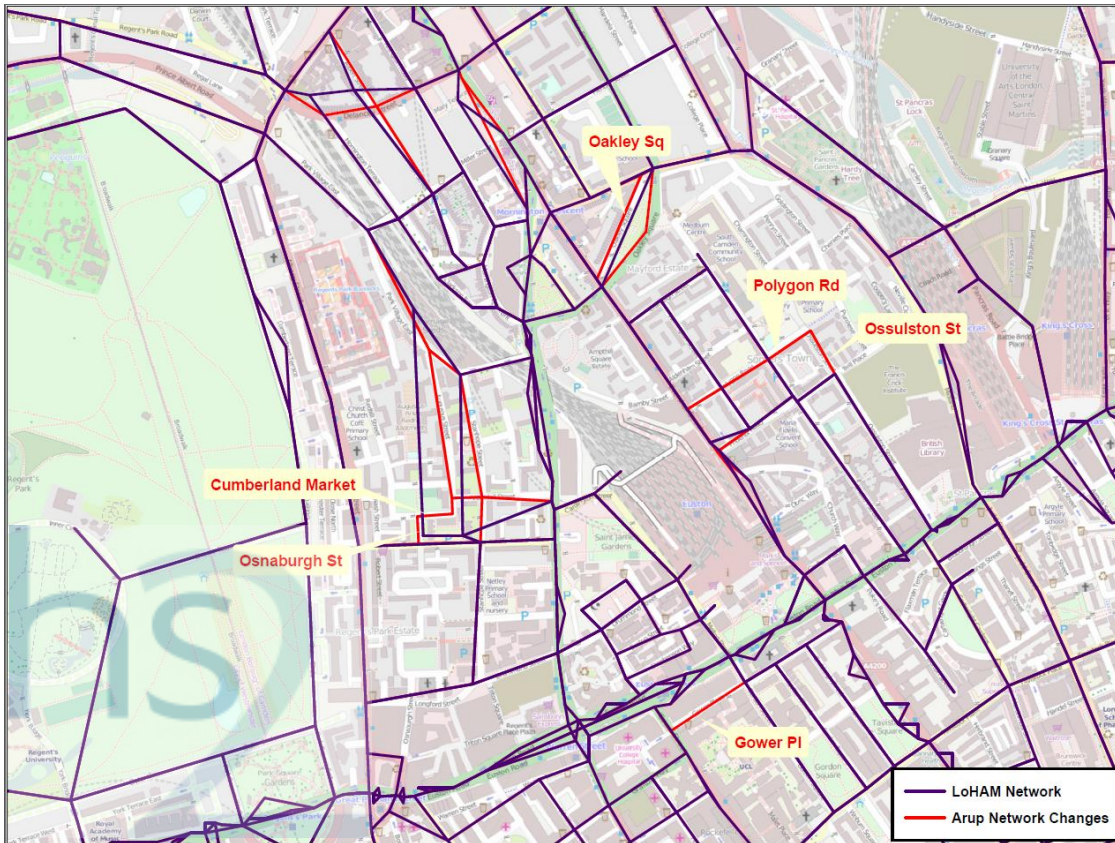
4.2.1 A review of the key roads around Euston Station was performed. These roads included Hampstead Road, Eversholt Street (and roads between these two roads), Ossulston Street, Charlton Street and Euston Road (between Outer Circle and Caledonian Road). 14 nodes along these roads were edited following the review.

4.2.2 Signal cycle length changes were made to approximately 160 priority and signal junctions in the vicinity of Euston Road and along Euston Road itself. The majority of these changes were changing the signal cycle length from 88 to either 72 or 96 seconds.

4.2.3 Additional network detail in terms of nodes and links was added in to reflect details of the network now present in the original CLoHAM model. This is shown diagrammatically in Figure 3. The original network in the Euston area is shown in black together with additional roads in red. This resulted in the following additional road being added:

- Oakley Square;
- Polygon Road;
- Ossulston Street;
- Cumberland Market;
- Osnaburgh Street; and
- Gower Place.

Figure 3: Additional modelled roads in the Euston area



4.3 Matrix calibration

- 4.3.1 The starting point for the 2014 CLoHAM recalibration was the prior matrix from CLoHAM P3 provided by TfL.
- 4.3.2 Following discussions with TfL and HS2, early in the calibration process, it was agreed that the most sensible general approach would be to use the 2012 TfL dataset but with some local screenline data from the Arup June and July 2012 data. Further details are provided in Section 3.

5 TfL and DfT guidance

5.1.1 TfL HAM guidance (Sub-regional Highway Assignment Model Guidance on Model Use, Version 0.4 September 2012) states:

- Section 3.2: 'Local Model Validation for both count and flow data should be presented in accordance with current WebTAG Highway Assignment Modelling guidance. TfL will provide the 'dashboard' spreadsheet together with relevant 'key files' and macros to assist in the presentation of model validation';
- Section 3.5: 'Journey Time validations prepared as part of the HAM LMVR and whose routes pass within the vicinity of the development should be presented and reviewed for acceptability in accordance with current WebTAG Highway Assignment Modelling guidance'; and
- Section 3.7: 'Sign off will require the following:
 - Confirmation that matrix estimation has been undertaken from the original prior matrices to an enhanced set of counts for the local area, used where possible as mini-screenlines
 - Model convergence consistent with or better than WebTAG standards (e.g. Minimum duality GAP < 0.05 for four successive model iterations)
 - Count validation to original HAM screenlines no worse than provided by the original supplied HAM
 - Journey Time validation to original HAM routes no worse than provided by the original supplied HAM
 - Local area screenline count calibration in line with WebTAG guidance
 - Local area individual count calibration in line with WebTAG guidance, relaxed to the equivalent of a GEH of 7.5 for turning count data presented separately
 - Local area Journey Time validation accurate to within 15 per cent of observed.'

5.1.2 TfL's aspirations broadly match the guidance contained within the DfT's Design Manual for Roads and Bridges (DMRB) Volume 12, which is useful in that they provide different criteria, based on different categories of road and are also the Department for Transport's generally acceptable criteria. The DMRB guidelines are reproduced in Table 1 for percentage differences, Geoffrey E. Havers (GEH) statistic and journey times.

Table 1: DMRB model performance criteria

Criteria	Acceptability guideline
Assigned hourly flows	
Individual flows within +/-15% for flows 700 - 2,700 vehicles per hour (vph)	>85% of cases
Individual flows within +/-100 vph for flows c 700 vph	>85% of cases

Criteria	Acceptability guideline
Individual flows within +/-400 vph for flows > 2,700 vph	>85% of cases
Screenline flows (normally > 5 links) to be within 5% All	All or nearly all screenlines
GEH statistic	
Individual flows GEH < 5	>85% of cases
Screenline totals GEH <4	All or nearly all screenlines
Journey times	
Modelled journey times within 15% (or 1 minute if higher)	>85% of cases

- 5.1.3 It should be noted that the DMRB guidelines were originally designed for the assessment of trunk roads rather than the broader, and in urban settings extremely dispersed, "collector"/"feeder" networks. Therefore, for a city of the complexity of central London it is extremely difficult to satisfy all the guidelines outlined in DMRB. There are precedents where the guidelines have been relaxed for SATURN models within London.

6 Local model calibration

6.1 Summary statistics

- 6.1.1 In order to assist with and report on calibration and validation, TfL's, 'Dashboard' spreadsheet was utilised. This provides a detailed analysis of model calibration and validation. Whilst this is at a model-wide level, it is useful in order to compare the results against previous calibrated versions of the model. The dashboard was used in 'Bespoke' mode using the local Euston screenlines and journey time routes defined in Section 3.
- 6.1.2 The TfL Dashboard provides details of model performance against a number of measures including screenlines, total counts, journey times, trip distribution, etc. It reports a number of 'Headline Statistics', comparing model performance on links, screenlines and for journey time routes.
- 6.1.3 Table 2 and Table 3 compare these statistics derived from the version of P₃ provided by TfL with those from the calibrated version of P₃.

Table 2: Top line statistics - TfL HAM 'Dashboard' AM peak

Criteria	Original CLoHAM P ₃	Updated 2015 HS2 CLoHAM P ₃	TfL Aspiration
Links - GEH < 5	65%	77%	85%
Links - GEH < 7.5	80%	83%	85%
Links - DMRB flow criteria	65%	78%	85%
Screenline - flow difference <5%	50%	75%	85%
Mini-screenline - GEH <5	72%	88%	85%
Journey time routes - time difference < 15%	60%	90%	85%

Table 3: Top line statistics - TfL HAM 'Dashboard' PM peak

Criteria	Original CLoHAM P ₃	Updated 2015 HS2 CLoHAM P ₃	TfL Aspiration
Links - GEH < 5	61%	81%	85%
Links - GEH < 7.5	74%	86%	85%
Links - DMRB flow criteria	70%	81%	85%
Screenline - flow difference <5%	39%	58%	85%
Mini-screenline - GEH <5	33%	88%	85%
Journey time routes - time difference < 15%	76%	80%	85%

- 6.1.4 From this, it is apparent that TfL’s aspiration is for the model to achieve the performance against the above criteria in at least 85% of cases. Table 2 and Table 3 demonstrate that the local calibration exercise has resulted in significant improvements to all key model headline statistics and in some cases has exceeded TfL’s 85% aspirational statistic.
- 6.1.5 The 2012 recalibration for the Transport Assessment for the revised scheme shows model-wide improvements in the headline statistics with overall link validation improving to 83% for the AM peak period and to 86% for the PM peak period (despite being measured against a more stringent GEH criteria of <7.5). Individual links meeting DMRB guidelines are within acceptable limits for both time periods. The biggest improvement is in screenline flows with the number of screenlines with a flow difference of <5% improving by between 36% (PM) and 42% (AM).

6.2 Journey time and screenline calibration

- 6.2.1 The detailed journey time calibration by time period is reproduced in Table 4 and Table 5 for the AM and PM peaks respectively. Observed compared with modelled journey time graphs are shown in Appendix A and B.

Table 4: Journey time validation AM peak

Description	Start	Finish	Distance (Km)	Observed journey time (s)	Modelled journey time (s)	% difference	Meets DMRB
Route B-1: NB	Tottenham Court Road near Goodge Street station	Hampstead Road/Harrington Square	1.59	279	320	14.6%	Yes
Route B-2: SB	Hampstead Road / Harrington Square	Gower Street near Chenies Street	1.69	340	366	7.6%	Yes
Route B-3: NB	Russell Square/ Southampton Row	Eversholt Street / Crowndale Road	2.66	712	686	-3.6%	Yes
Route B-4: SB	Camden Street/ Camden Road	Russell Square / Southampton Row	2.53	682	600	-12.1%	Yes
Route B-5: NB	Pancras Road	Royal College Street	2.42	483	509	5.5%	Yes
Route B-6: SB	Royal College Street	Hunter Street	2.83	644	593	-8.0%	Yes
Route B-7: EB	Euston Road/ Caledonian Road	Euston Road / Baker Street	2.76	569	680	19.5%	No
Route B-8: WB	Euston Road / Baker Street	Euston Road / Caledonian Road	2.65	662	649	-1.9%	Yes
Route B-9: NB	Portland Place	Camden Road	3.19	674	748	10.9%	Yes

Description	Start	Finish	Distance (Km)	Observed journey time (s)	Modelled journey time (s)	% difference	Meets DMRB
Route B-10: SB	Camden Road	Portland Place	3.60	903	889	-1.5%	Yes

Table 5: Journey time validation PM peak

Description	Start	Finish	Distance (Km)	Observed journey time (s)	Modelled journey time (s)	% difference	Meets DMRB
Route B-1: NB	Tottenham Court Road near Goodge Street station	Hampstead Road/Harrington Square	1.59	342	395	15.6%	Yes
Route B-2: SB	Hampstead Road / Harrington Square	Gower Street near Chenies Street	1.69	339	338	-0.3%	Yes
Route B-3: NB	Russell Square/ Southampton Row	Eversholt Street / Crowndale Road	2.66	835	747	-10.6%	Yes
Route B-4: SB	Camden Street/ Camden Road	Russell Square / Southampton Row	2.53	600	674	12.3%	Yes
Route B-5: NB	Pancras Road	Royal College Street	2.42	501	462	-7.9%	Yes
Route B-6: SB	Royal College Street	Hunter Street	2.83	528	541	2.4%	Yes
Route B-7: EB	Euston Road/ Caledonian Road	Euston Road / Baker Street	2.76	955	720	-24.6%	No
Route B-8: WB	Euston Road / Baker Street	Euston Road / Caledonian Road	2.65	906	667	-26.3%	No
Route B-9: NB	Portland Place	Camden Road	3.19	850	873	2.8%	Yes
Route B-10: SB	Camden Road	Portland Place	3.60	804	777	-3.3%	Yes

6.2.2 Table 6 and Table 7 display calibration on screenlines. The AM screenlines perform better than the PM peak. With the exception of the 'Water Tight Cordon' (inbound) those screenlines with a percentage difference between observed and modelled flows not meeting the DMRB criteria are within 10%, and therefore are close to DMRB.

SES2 and AP3 ES Appendix TR-001-000 | Annex C(ii): MPR - CLoHAM

Table 6: Bespoke model screenline summary, AM peak

Screenline	Direction	Observed vehicles	Modelled vehicles (actual flow)	Difference	GEH	Flow difference <5%	GEH <4
EU_Watertight Cordon (Inside IRR)	Inbound	4,636	4,431	-4%	3.06	Yes	Yes
EU_Watertight Cordon (Inside IRR)	Outbound	4,399	4,270	-3%	1.96	Yes	Yes
Old Oak Common - Cannonbury	Inbound	6,387	6,405	0%	0.22	Yes	Yes
Old Oak Common - Cannonbury	Outbound	4,386	4,458	2%	1.08	Yes	Yes
Emirates - Clerkenwell	Inbound	3,639	3,583	-2%	0.93	Yes	Yes
Emirates - Clerkenwell	Outbound	3,946	3,704	-6%	3.91	No	Yes
Midland Mainline South	Inbound	4,510	4,294	-5%	3.27	Yes	Yes
Midland Mainline South	Outbound	4,078	4,050	-1%	0.45	Yes	Yes
Central - North	Inbound	5,788	5,496	-5%	3.88	No	Yes
Central - North	Outbound	3,354	3,061	-9%	5.17	No	No
EU_Camden east-west	Inbound	2,063	2,011	-3%	1.15	Yes	Yes
EU_Camden east-west	Outbound	2,940	3,083	5%	2.60	Yes	Yes

Table 7: Bespoke model screenline summary, PM peak

Screenline	Direction	Observed vehicles	Modelled vehicles (actual flow)	Difference	GEH	Flow difference <5%	GEH <4
EU_Watertight Cordon (Inside IRR)	Inbound	3,972	3,879	-2%	1.48	Yes	Yes
EU_Watertight Cordon (Inside IRR)	Outbound	5,863	5,896	1%	0.43	Yes	Yes
Old Oak Common - Cannonbury	Inbound	4,733	4,739	0%	0.09	Yes	Yes
Old Oak Common - Cannonbury	Outbound	5,616	5,745	2%	1.72	Yes	Yes

SES2 and AP3 ES Appendix TR-001-000 | Annex C(ii): MPR - CLoHAM

Screenline	Direction	Observed vehicles	Modelled vehicles (actual flow)	Difference	GEH	Flow difference <5%	GEH <4
Emirates - Clerkenwell	Inbound	3,787	4,238	12%	7.12	No	No
Emirates - Clerkenwell	Outbound	3,330	3,065	-8%	4.68	No	No
Midland Mainline South	Inbound	4,230	4,369	3%	2.12	Yes	Yes
Midland Mainline South	Outbound	3,800	3,894	2%	1.52	Yes	Yes
Central - North	Inbound	3,885	3,672	-5%	3.47	No	Yes
Central - North	Outbound	4,948	4,483	-9%	6.76	No	No
EU_Camden east-west	Inbound	2,467	2,430	-2%	0.75	Yes	Yes
EU_Camden east-west	Outbound	1,987	2,119	7%	2.90	Yes	Yes

7 Model convergence

- 7.1.1 Model convergence is required in order to provide stable, consistent and robust model results and to differentiate between real changes and those associated with differing degrees of convergence.
- 7.1.2 The DfT's WebTAG provides guidance on model convergence with recommendations on acceptable variations in link flows and costs between iterations helping to ensure the model is sufficiently stable. This is set out in Table 8.

Table 8: Summary of convergence measures and base model acceptable values

Measures of convergence	Acceptability guidelines
Delta and %GAP	Less than 0.1% or at least stable with convergence fully documented and all other criteria met
Percentage of links with flow change (P) < 1%	Four consecutive iterations greater than 98%
Percentage of links with cost change (P2) < 1%	Four consecutive iterations greater than 98%
Percentage change in total user costs of links with flow change (P) < 1%	Four consecutive iterations less than 0.1% (SUE only)

Source: TAG UNIT 3.19, May 2012

- 7.1.3 Convergence parameters have been slightly altered from those set in CLoHAM Production Version 1. The outer loop convergence criteria have been set to stop the procedure when 99% of links (ISTOP) change their flow or delay by less than 2% (PCNEAR) compared to the previous iterations. These criteria must be met on four consecutive loops. A summary of the convergence statistics is given in Table 9.

Table 9: Model convergence statistics

Convergence statistic	AM % flows	AM % delays	PM % flows	PM % delays
Flow Change Final Iteration	98.8	99.1	99.0	99.2
Flow Change Final Iteration -1	98.7	98.9	99.3	99.3
Flow Change Final Iteration -2	98.2	98.7	98.7	99.3
Flow Change Final Iteration -3	98.6	98.8	99.1	99.2
% Gap	0.0041		0.0036	

- 7.1.4 The percentage gap in all time periods is less than 0.1%. The percentage of links with flow changes less than 1% in the last four iterations is within 98% for all models. As such the models are considered to have converged and are stable.

8 Performance in forecast mode

8.1.1 CLoHAM has been run for the 2021 future baseline and future baseline with construction and 2026 and 2041 future baseline and future baseline with operation. These runs have included:

- future year demand matrices provided by TfL and based on the change in LTS demand between the base year and relevant forecast year, applied to the final base year calibrated CLoHAM matrices;
- signal optimisation for the relevant forecast years based on files provided by TfL;
- committed highway schemes for the relevant forecast years, including the following:
 - Baker Street two-way;
 - north-south Cycle Superhighway;
 - east-west Cycle Superhighway;
 - Cycle Superhighway 1 (Tottenham to Shoreditch);
 - Cycle Superhighway 2 upgrade (Aldgate to Bow roundabout);
 - Cycle Superhighway Inner 5 (Oval to Victoria);
 - Cycle Superhighway 11 (West Hampstead to Marylebone);
 - cycle grid - Calthorpe Street
 - Old Street roundabout reconfiguration;
 - Elephant and Castle northern roundabout reconfiguration;
 - Holborn Circus;
 - Kennington Cross;
 - Lambeth South;
 - Oval;
 - Waterloo IMAX; and
 - Westminster Bridge.
- scheme details for construction in terms of road closures and traffic interventions, HGV volumes and routes for construction; and
- scheme details for operation in terms of permanent highway interventions, taxi operations, servicing and delivery and highway access arrangements.

8.1.2 Results from these models have been reviewed and found to give plausible results in terms of:

- overall changes to traffic volumes and junction delays between the 2012 base year and relevant future baseline; and
- Changes to general traffic, HGVs and taxi flows between the future baseline and future baseline with construction / operation

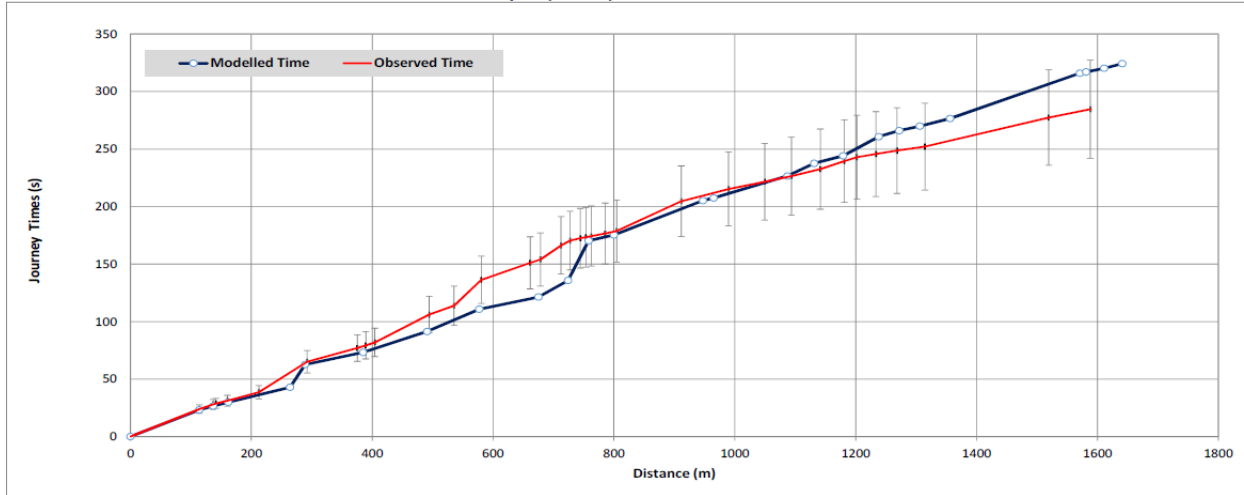
9 Conclusions

- 9.1.1 This model performance report sets out the performance of the CLoHAM model revised for the AP3 Transport Assessment.
- 9.1.2 The report sets out link performance, screenline performance and journey time performance. Link performance was improved with a GEH of less than 7.5 for 83% and 86% for the AM and PM respectively.
- 9.1.3 Screenline performance was judged to be acceptable in both periods, with 92% and 75% of modelled screenlines flows being within 5% of the observed for the AM and PM peak respectively. The flows were judged to be acceptable as the mini-screenline performed well with 87% and 84% with a GEH of less than 5 for the AM and PM respectively. 90% of journey time routes were within 15% of the observed traffic master routes in the AM and 80% of routes in the PM.
- 9.1.4 Finally, model convergence meets Design Manual for Roads and Bridges (DMRB) guidelines and, as such, the models are considered to have converged and are stable.
- 9.1.5 In conclusion, at both the model wide and local levels, the recalibrated version of CLoHAM referenced in this report is considered appropriate for assessing the construction and operational effects of HS2 on the highway network.

Appendix A

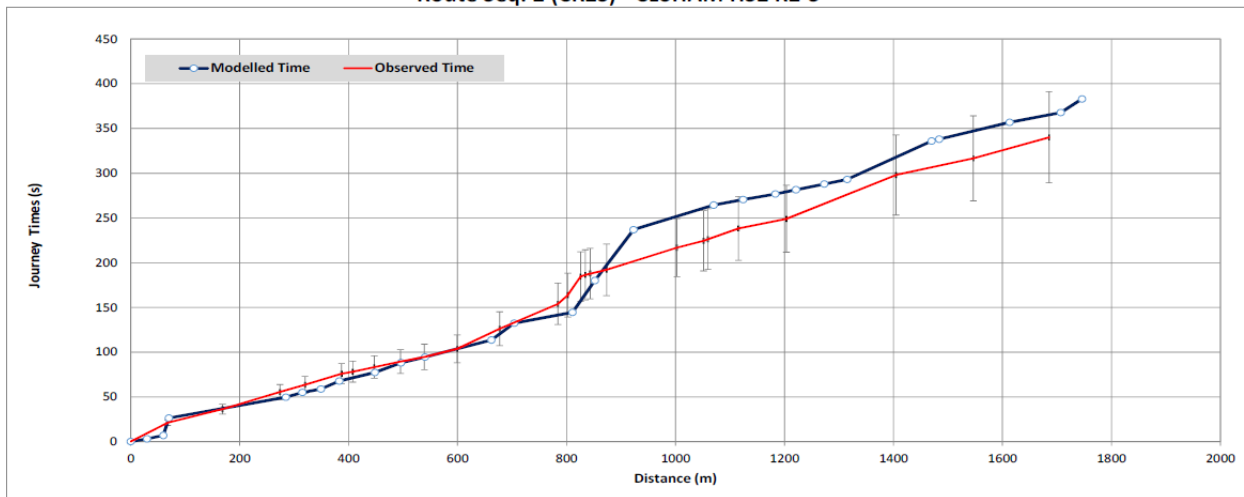
Journey Time Routes for AM peak period model

Bespoke Model: AM Peak - Core Area
Route Seq. 1 (CR1N) - CLoHAM HS2 R1-N



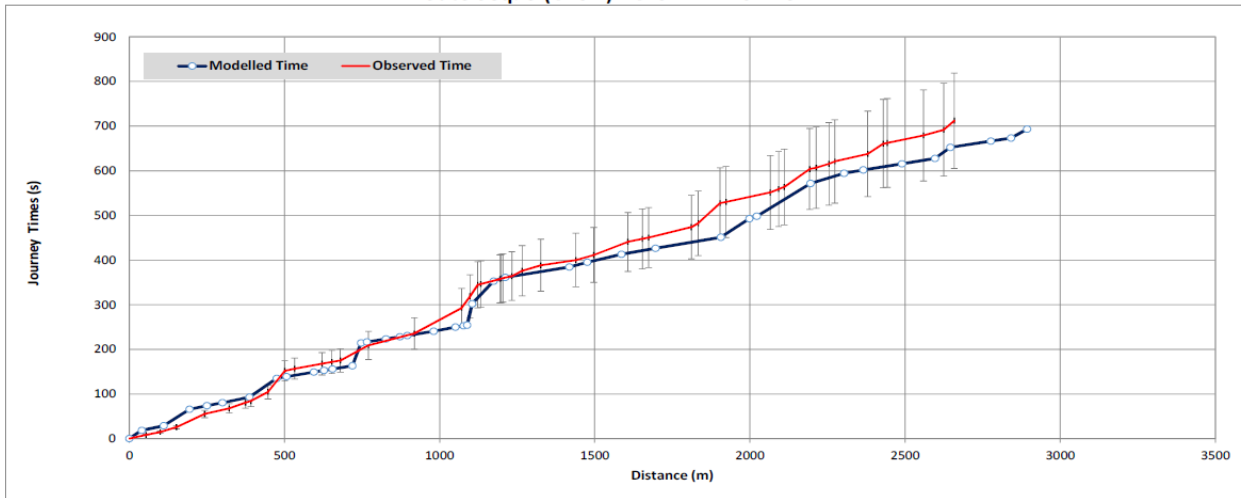
Observed (sec)	Modelled (sec)	Diff [M-O] (sec)	% Diff [M-O]	DMRB	Dist (M-O) m	Dist (Obs-Mod) %
279	324	45	16.3%	Pass	52	3.3%

Bespoke Model: AM Peak - Core Area
Route Seq. 2 (CR2S) - CLoHAM HS2 R2-S



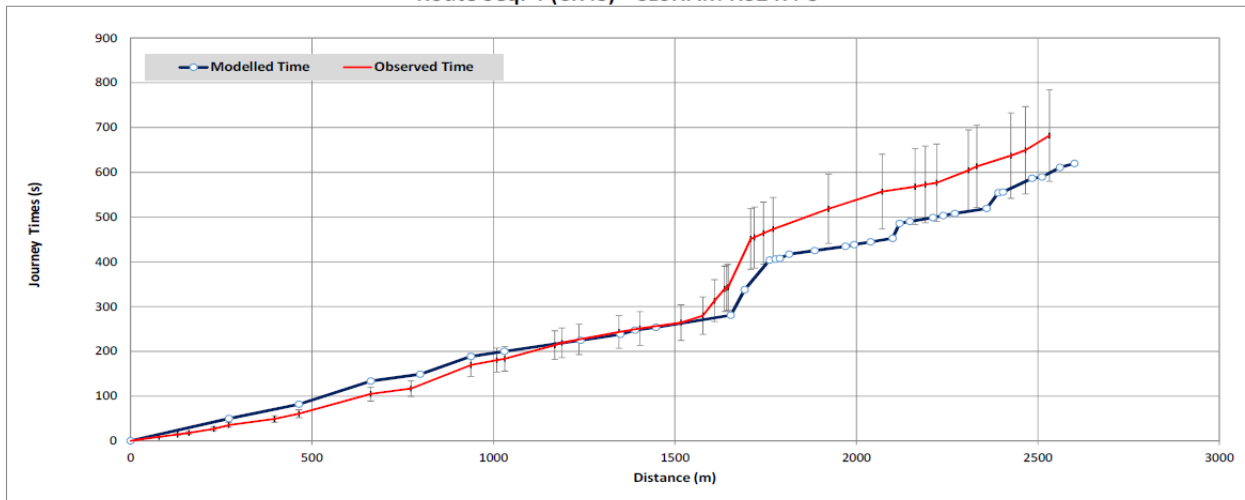
Observed (sec)	Modelled (sec)	Diff [M-O] (sec)	% Diff [M-O]	DMRB	Dist (M-O) m	Dist (Obs-Mod) %
340	383	43	12.6%	Pass	60	3.6%

Bespoke Model: AM Peak - Core Area
Route Seq. 3 (CR3N) - CLoHAM HS2 R3-N



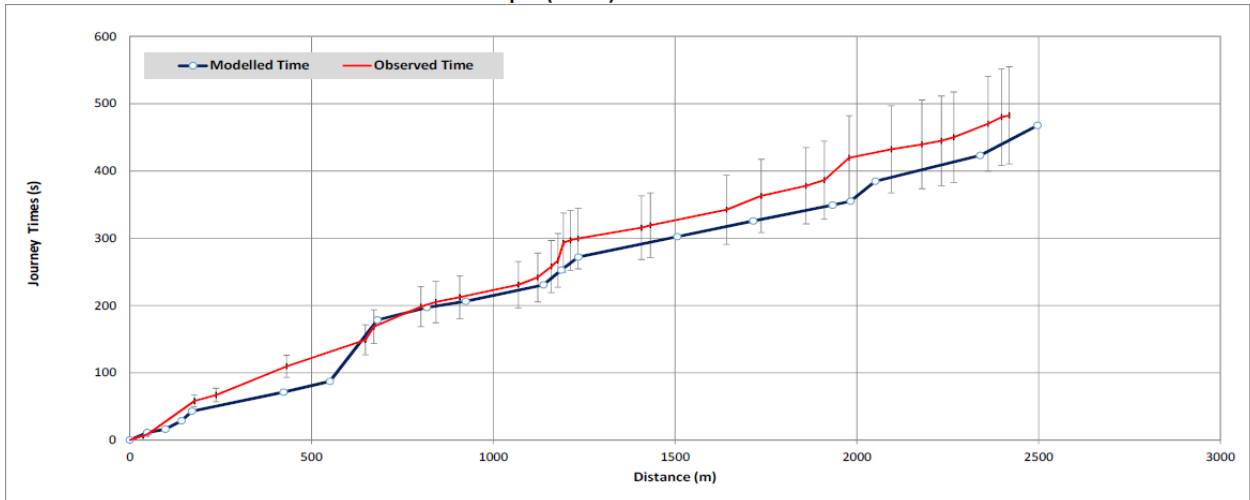
Observed (sec)	Modelled (sec)	Diff [M-O] (sec)	% Diff [M-O]	DMRB	Dist (M-O) m	Dist (Obs-Mod) %
712	693	-19	-2.7%	Pass	234	8.8%

Bespoke Model: AM Peak - Core Area
Route Seq. 4 (CR4S) - CLoHAM HS2 R4-S



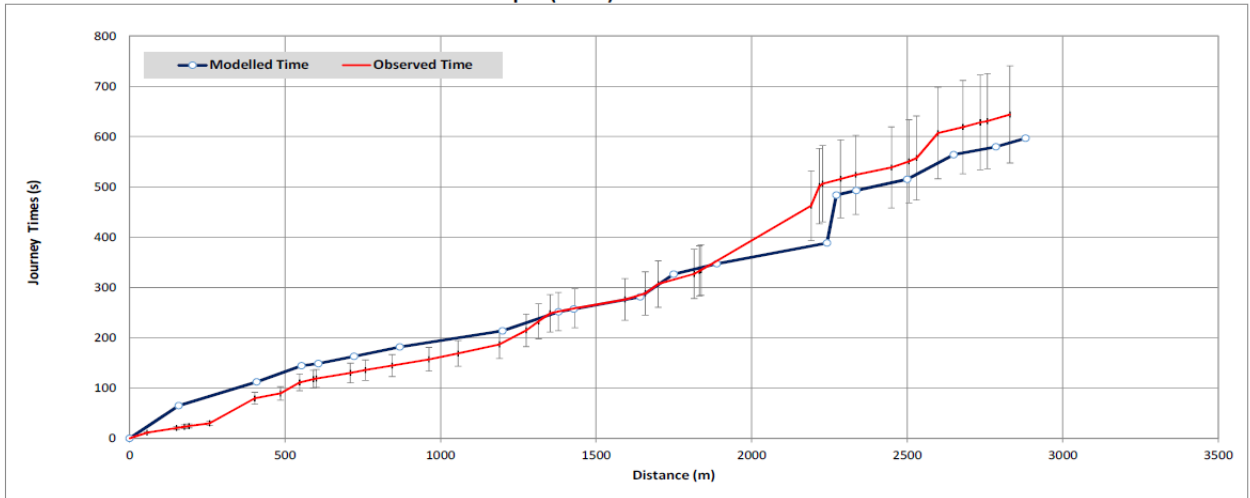
Observed (sec)	Modelled (sec)	Diff [M-O] (sec)	% Diff [M-O]	DMRB	Dist (M-O) m	Dist (Obs-Mod) %
682	620	-62	-9.1%	Pass	69	2.7%

Bespoke Model: AM Peak - Core Area
Route Seq. 5 (CR5N) - CLoHAM HS2 R5-N



Observed (sec)	Modelled (sec)	Diff [M-O] (sec)	% Diff [M-O]	DMRB	Dist (M-O) m	Dist (Obs-Mod) %
483	468	-15	-3.1%	Pass	77	3.2%

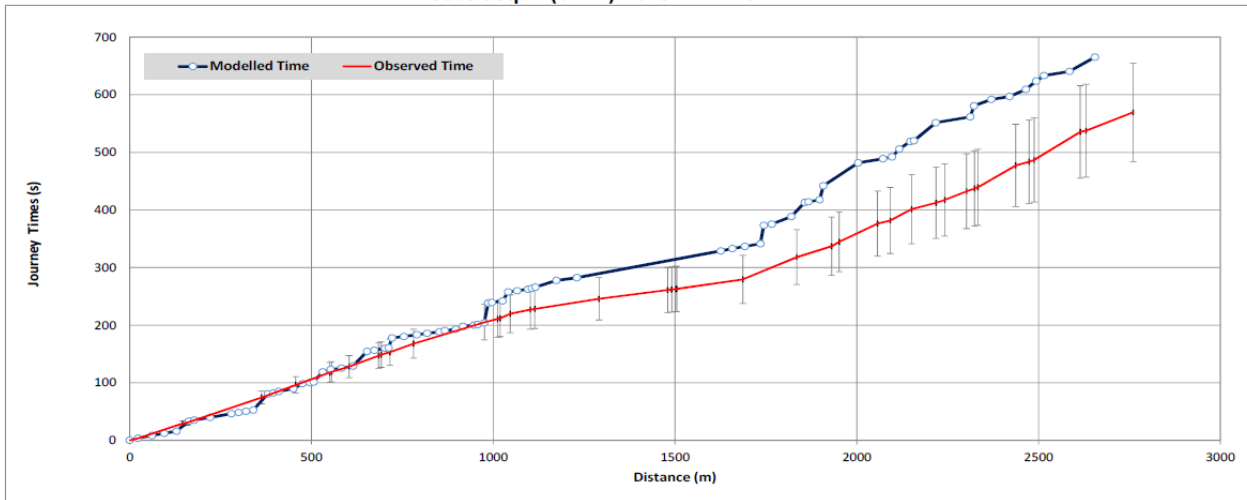
Bespoke Model: AM Peak - Core Area
Route Seq. 6 (CR6S) - CLoHAM HS2 R6-S



Observed (sec)	Modelled (sec)	Diff [M-O] (sec)	% Diff [M-O]	DMRB	Dist (M-O) m	Dist (Obs-Mod) %
644	597	-47	-7.3%	Pass	49	1.7%



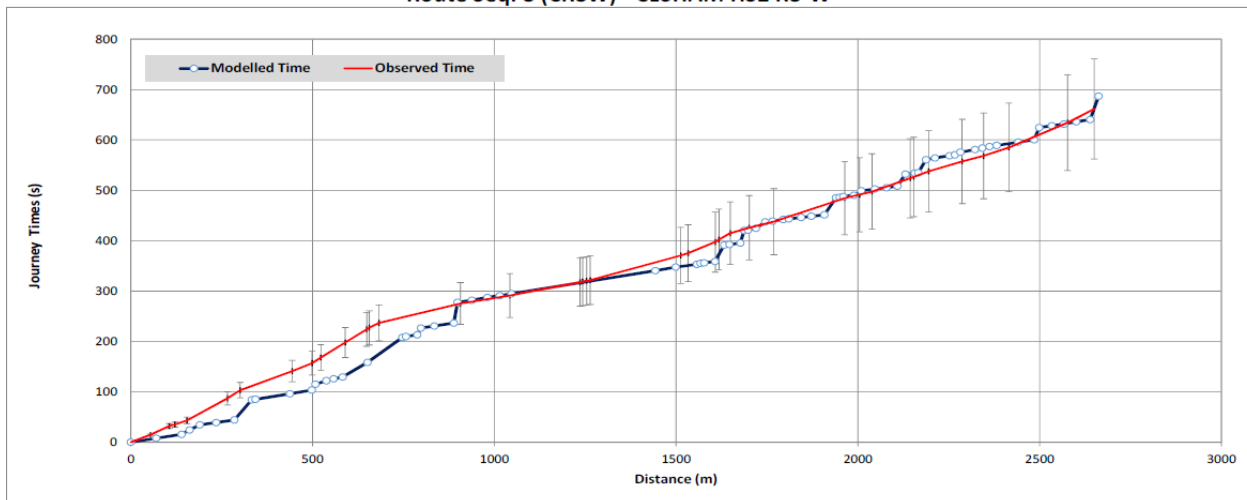
Bespoke Model: AM Peak - Core Area
Route Seq. 7 (CR7E) - CLoHAM HS2 R7-E



Observed (sec)	Modelled (sec)	Diff [M-O] (sec)	% Diff [M-O]	DMRB	Dist (M-O) m	Dist (Obs-Mod) %
569	665	96	16.9%	Fail	-105	-3.8%

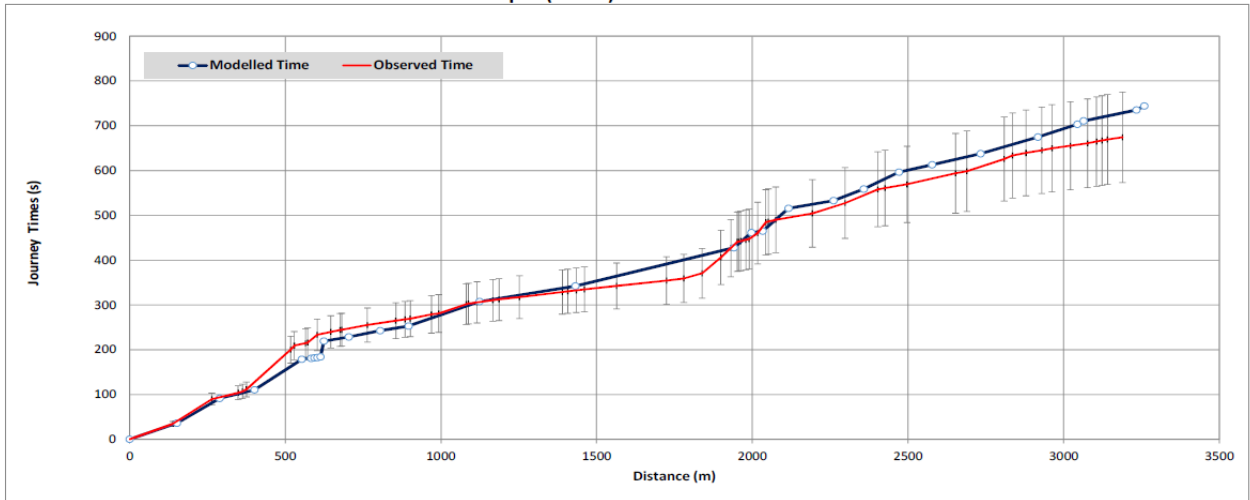


Bespoke Model: AM Peak - Core Area
Route Seq. 8 (CR8W) - CLoHAM HS2 R8-W



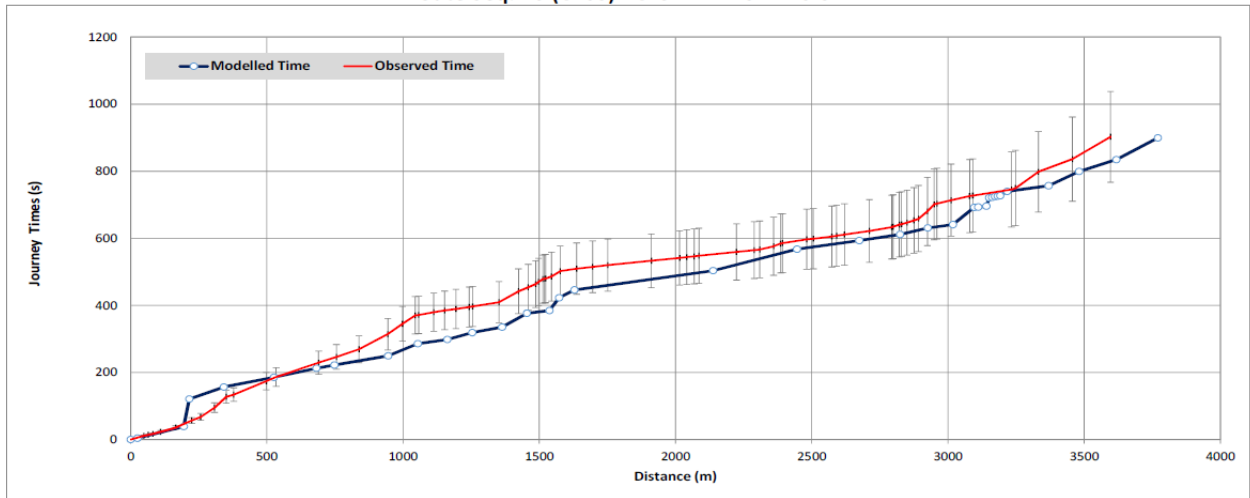
Observed (sec)	Modelled (sec)	Diff [M-O] (sec)	% Diff [M-O]	DMRB	Dist (M-O) m	Dist (Obs-Mod) %
662	687	25	3.8%	Pass	12	0.5%

Bespoke Model: AM Peak - Core Area
Route Seq. 9 (CR9N) - CLoHAM HS2 R9-N



Observed (sec)	Modelled (sec)	Diff [M-O] (sec)	% Diff [M-O]	DMRB	Dist (M-O) m	Dist (Obs-Mod) %
674	744	70	10.3%	Pass	70	2.2%

Bespoke Model: AM Peak - Core Area
Route Seq. 10 (C10S) - CLoHAM HS2 R10-S

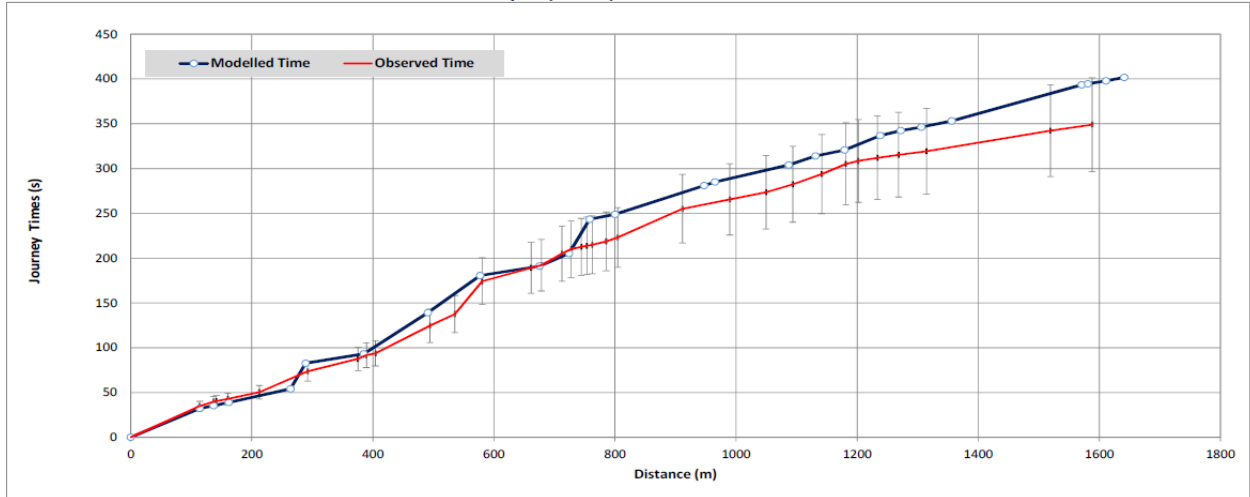


Observed (sec)	Modelled (sec)	Diff [M-O] (sec)	% Diff [M-O]	DMRB	Dist (M-O) m	Dist (Obs-Mod) %
903	899	-3	-0.4%	Pass	173	4.8%

Appendix B

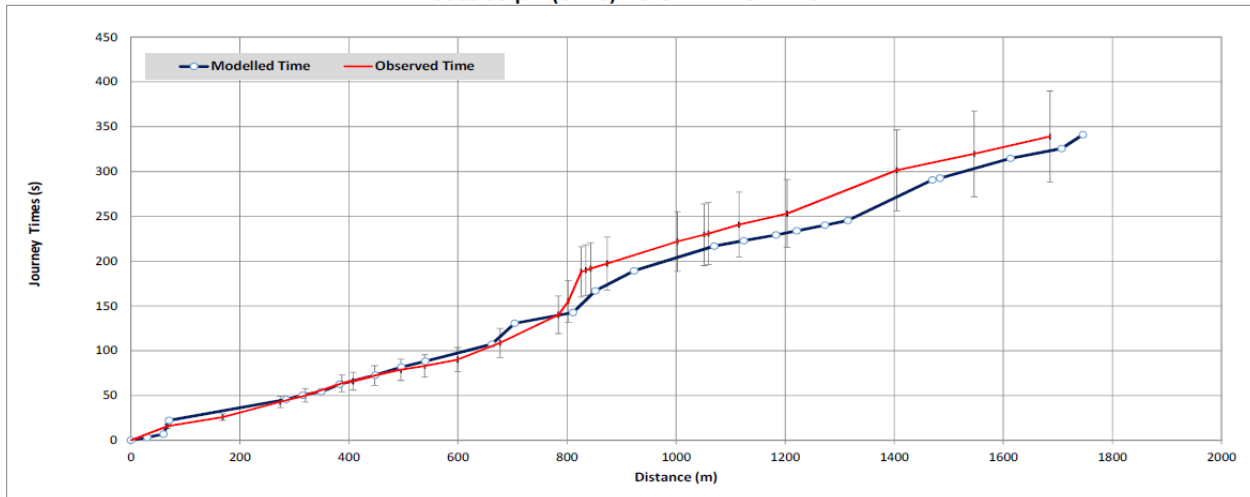
JT Routes for PM peak period model

Bespoke Model: PM Peak - Core Area
Route Seq. 1 (CR1N) - CLoHAM HS2 R1-N



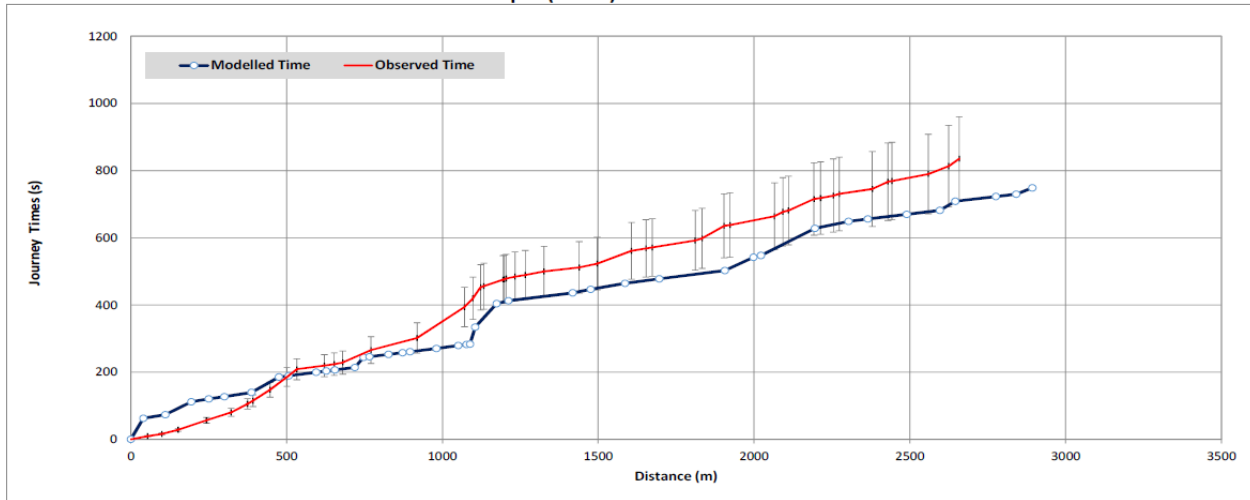
Observed (sec)	Modelled (sec)	Diff [M-O] (sec)	% Diff [M-O]	DMRB	Dist (M-O) m	Dist (Obs-Mod) %
342	402	60	17.4%	Pass	52	3.3%

Bespoke Model: PM Peak - Core Area
Route Seq. 2 (CR2S) - CLoHAM HS2 R2-S



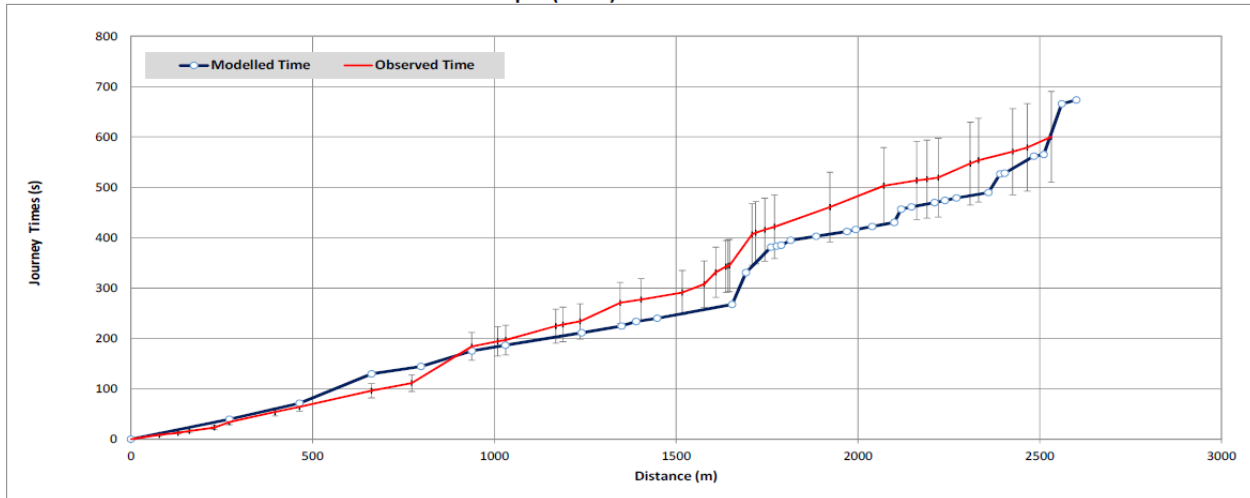
Observed (sec)	Modelled (sec)	Diff [M-O] (sec)	% Diff [M-O]	DMRB	Dist (M-O) m	Dist (Obs-Mod) %
339	341	2	0.6%	Pass	60	3.6%

Bespoke Model: PM Peak - Core Area
Route Seq. 3 (CR3N) - CLoHAM HS2 R3-N



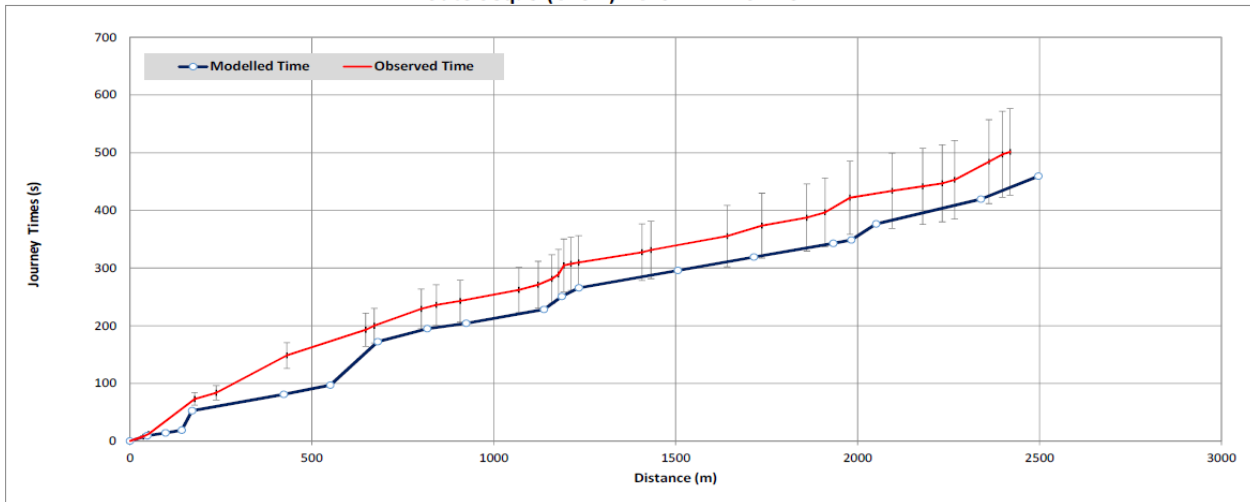
Observed (sec)	Modelled (sec)	Diff [M-O] (sec)	% Diff [M-O]	DMRB	Dist (M-O) m	Dist (Obs-Mod) %
835	749	-87	-10.4%	Pass	234	8.8%

Bespoke Model: PM Peak - Core Area
Route Seq. 4 (CR4S) - CLoHAM HS2 R4-S



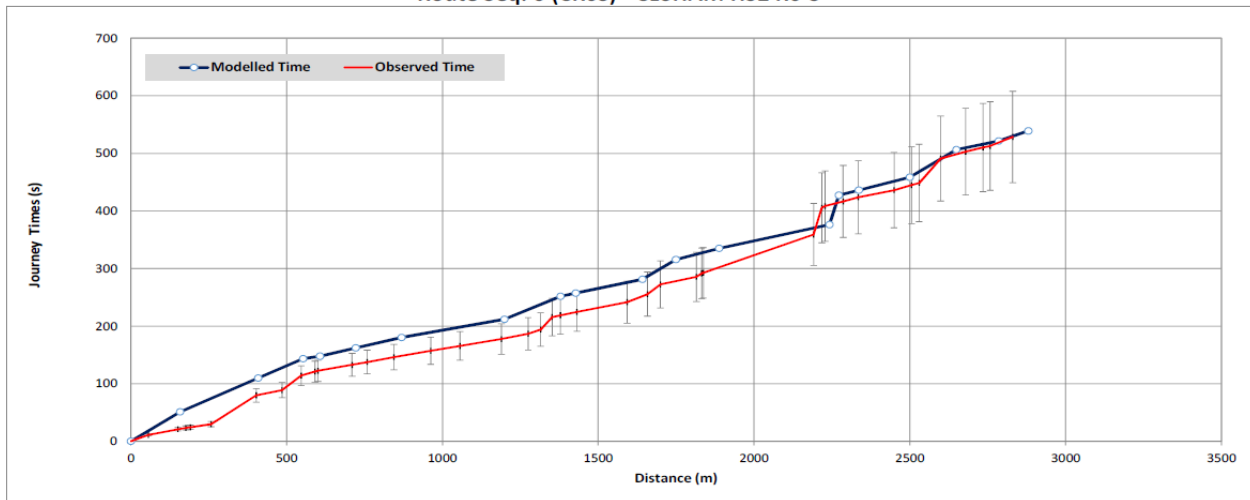
Observed (sec)	Modelled (sec)	Diff [M-O] (sec)	% Diff [M-O]	DMRB	Dist (M-O) m	Dist (Obs-Mod) %
600	673	73	12.2%	Pass	69	2.7%

Bespoke Model: PM Peak - Core Area
Route Seq. 5 (CR5N) - CLoHAM HS2 R5-N



Observed (sec)	Modelled (sec)	Diff [M-O] (sec)	% Diff [M-O]	DMRB	Dist (M-O) m	Dist (Obs-Mod) %
501	459	-42	-8.4%	Pass	77	3.2%

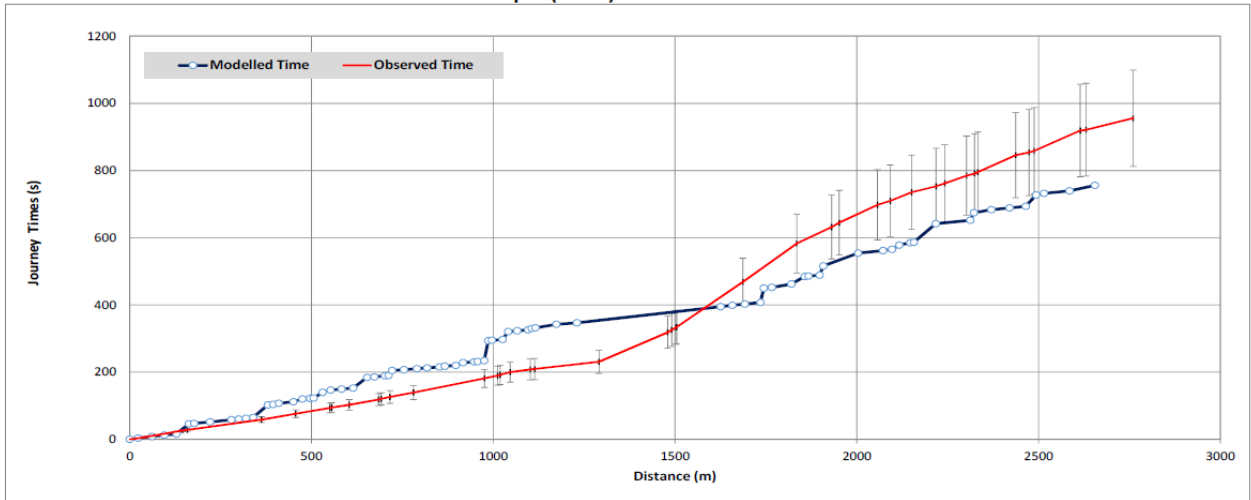
Bespoke Model: PM Peak - Core Area
Route Seq. 6 (CR6S) - CLoHAM HS2 R6-S



Observed (sec)	Modelled (sec)	Diff [M-O] (sec)	% Diff [M-O]	DMRB	Dist (M-O) m	Dist (Obs-Mod) %
528	539	10	2.0%	Pass	49	1.7%



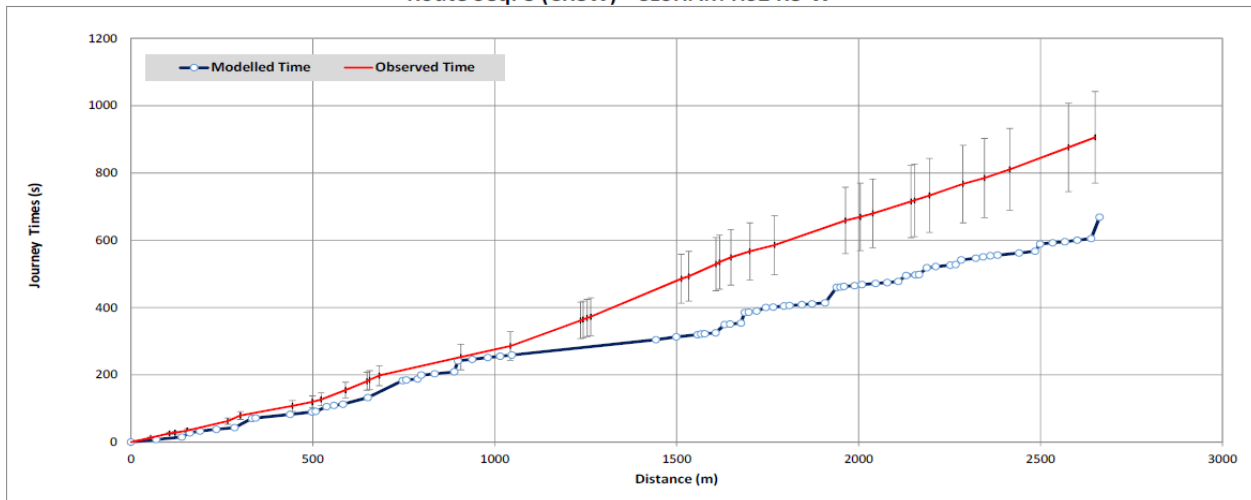
Bespoke Model: PM Peak - Core Area
Route Seq. 7 (CR7E) - CLoHAM HS2 R7-E



Observed (sec)	Modelled (sec)	Diff [M-O] (sec)	% Diff [M-O]	DMRB	Dist (M-O) m	Dist (Obs-Mod) %
955	756	-199	-20.9%	Fail	-105	-3.8%

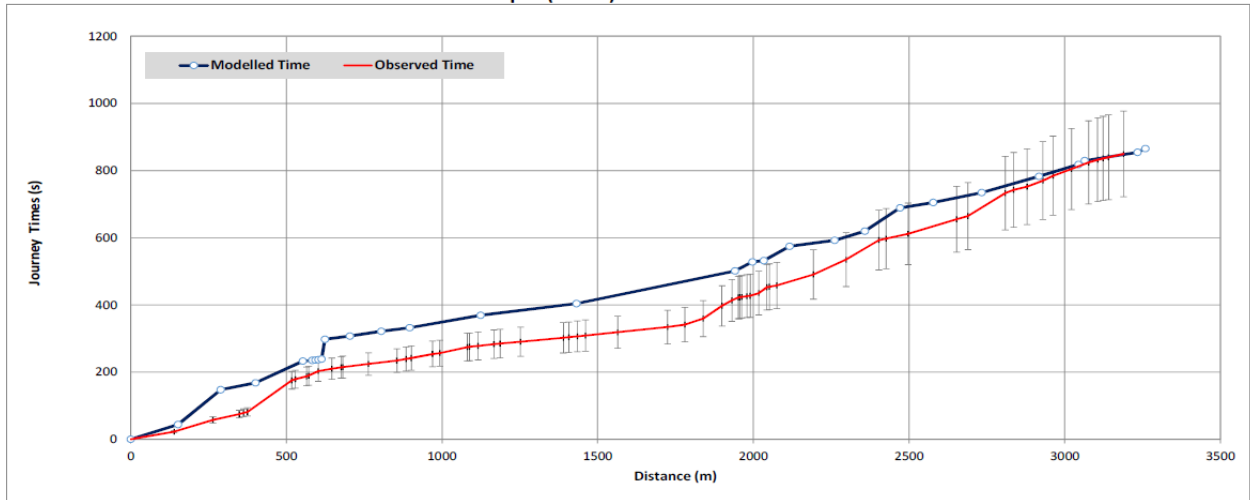


Bespoke Model: PM Peak - Core Area
Route Seq. 8 (CR8W) - CLoHAM HS2 R8-W



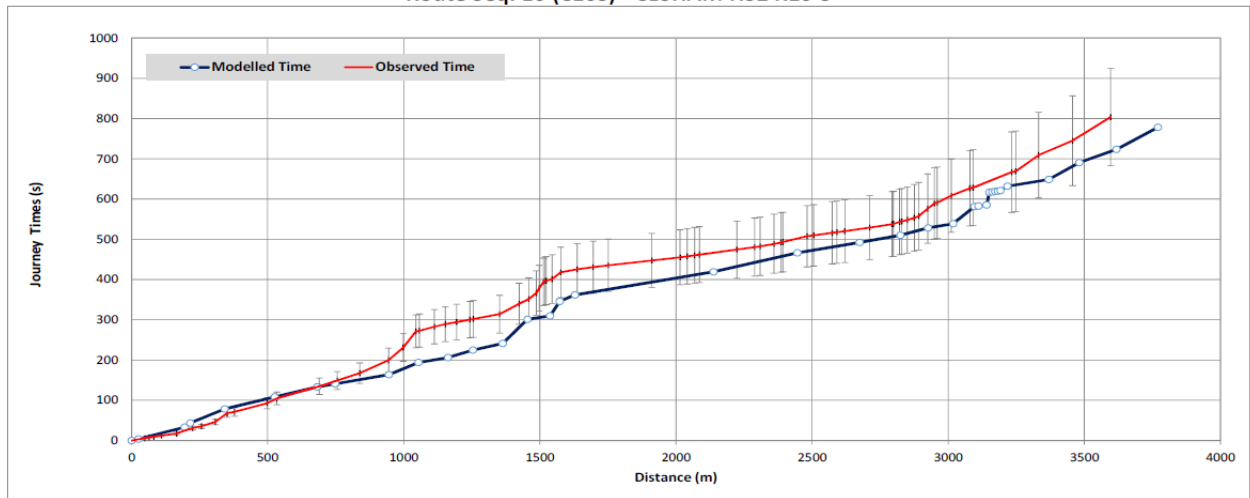
Observed (sec)	Modelled (sec)	Diff [M-O] (sec)	% Diff [M-O]	DMRB	Dist (M-O) m	Dist (Obs-Mod) %
906	668	-238	-26.2%	Fail	12	0.5%

Bespoke Model: PM Peak - Core Area
Route Seq. 9 (CR9N) - CLoHAM HS2 R9-N



Observed (sec)	Modelled (sec)	Diff [M-O] (sec)	% Diff [M-O]	DMRB	Dist (M-O) m	Dist (Obs-Mod) %
850	865	15	1.8%	Pass	70	2.2%

Bespoke Model: PM Peak - Core Area
Route Seq. 10 (C10S) - CLoHAM HS2 R10-S



Observed (sec)	Modelled (sec)	Diff [M-O] (sec)	% Diff [M-O]	DMRB	Dist (M-O) m	Dist (Obs-Mod) %
804	778	-25	-3.2%	Pass	173	4.8%

Annex D: Traffic data used for air quality

Traffic data used for air quality

- revisions to data for AP₃ revised scheme

CFA001 2012 Baseline Traffic Data

Table 1: Traffic data used in the baseline assessment

Road	A node	B node	Without the Proposed Scheme		
			AADT	HDVs	Speed (kph) ¹
12006_12005	12006	12005	391	10	15.3
12008_12007	12008	12007	1,020	4	18.1
12149_12055	12149	12055	151	53	20.6
12155_12154	12155	12154	2,185	103	14.3
12176_12175	12176	12175	-	-	18.6
12178_12177	12178	12177	-	-	15.5
12194_12193	12194	12193	334	3	12.9
12225_12224	12225	12224	46,153	2,261	1.7
12226_12224	12226	12224	44,379	2,352	17.5
12337_12224	12337	12224	13,811	1,423	0.9
12337_12225	12337	12225	3,926	738	13.4
12344_12343	12344	12343	5,274	211	24.1
12345_12339	12345	12339	5,884	182	25.0
12345_12344	12345	12344	5,274	211	20.8
12355_12354	12355	12354	3,747	259	22.1
12356_12172	12356	12172	-	-	25.0

¹ Where speeds are less than 5 kph, a speed of 5 kph is used in the Defra Emissions Factor Toolkit (EFT) v6.o.2 because this is the lowest speed that the EFT can produce output for.

Road	A node	B node	Without the Proposed Scheme		
			AADT	HDVs	Speed (kph) ¹
12357_12176	12357	12176	-	-	24.3
12358_12081	12358	12081	3,902	1,522	6.8
12359_12081	12359	12081	123	-	7.6
12359_12174	12359	12174	1,233	136	25.0
12360_12179	12360	12179	-	-	21.8
12362_12361	12362	12361	1,247	16	22.4
12368_12008	12368	12008	3,599	22	28.7
12376_12368	12376	12368	12,127	1,625	35.6
12380_12005	12380	12005	6,061	394	40.6
12380_12007	12380	12007	13,046	587	35.9
12381_12380	12381	12380	9,019	514	22.4
12387_12005	12387	12005	11,296	621	37.3
12401_12164	12401	12164	1,676	161	25.0
12413_12360	12413	12360	-	-	19.1
12415_12177	12415	12177	1,993	171	23.3
12416_12415	12416	12415	1,738	156	13.5
12418_12417	12418	12417	1,985	62	10.1
12419_12180	12419	12180	35	11	22.7
12419_12418	12419	12418	-	-	21.6
12421_12413	12421	12413	6,864	1,627	25.1

Road	A node	B node	Without the Proposed Scheme		
			AADT	HDVs	Speed (kph) ¹
12422_12418	12422	12418	-	-	19.5
12422_12421	12422	12421	6,563	1,569	25.1
12426_12361	12426	12361	15,176	1,518	28.6
12454_12049	12454	12049	3,442	69	17.9
12454_12055	12454	12055	924	8	19.4
12454_12368	12454	12368	1,620	3	14.3
12477_12291	12477	12291	35,737	2,251	12.1
12477_12402	12477	12402	3,856	166	28.8
12478_12476	12478	12476	46,139	2,999	5.0
12478_12477	12478	12477	38,431	2,460	3.5
12480_12228	12480	12228	4,480	9	7.5
12482_12480	12482	12480	3,490	422	20.4
12486_12226	12486	12226	39,761	2,028	3.0
12488_12482	12488	12482	8,125	934	6.7
12488_12485	12488	12485	2,299	106	19.4
12492_12223	12492	12223	47,593	2,903	1.6
12496_12492	12496	12492	43,089	2,499	4.3
12498_12488	12498	12488	8,758	946	13.7
12499_12426	12499	12426	14,056	1,223	8.5
12499_12496	12499	12496	517	335	42.5

Road	A node	B node	Without the Proposed Scheme		
			AADT	HDVs	Speed (kph) ¹
12501_12426	12501	12426	577	264	8.9
12501_12499	12501	12499	11,262	766	12.2
12502_12496	12502	12496	42,550	2,170	53.0
12506_12499	12506	12499	15,480	1,146	4.1
12512_12154	12512	12154	4,793	757	21.1
12512_12506	12512	12506	23,390	1,263	13.0
12513_12500	12513	12500	8,023	738	11.7
12519_12512	12519	12512	20,139	1,047	20.4
12534_12081	12534	12081	3,984	1,518	10.2
12534_12173	12534	12173	-	-	22.6
12539_12538	12539	12538	2,125	1,515	11.1
12543_12539	12543	12539	2,125	1,515	11.2
12565_12488	12565	12488	1,747	91	7.9
12577_12478	12577	12478	1,203	103	9.2
12577_12487	12577	12487	3,944	75	18.9
12595_12513	12595	12513	5,397	189	23.1
12595_12575	12595	12575	523	108	22.0
12598_12416	12598	12416	2,129	158	20.6
12598_12417	12598	12417	5,592	839	28.7
12604_12352	12604	12352	6,563	1,050	27.0

Road	A node	B node	Without the Proposed Scheme		
			AADT	HDVs	Speed (kph) ¹
12604_12355	12604	12355	4,530	326	20.1
12604_12598	12604	12598	5,592	839	28.6
12633_12341	12633	12341	4,663	196	18.8
12633_12356	12633	12356	-	-	25.0
12633_12538	12633	12538	2,904	136	8.6
12679_12482	12679	12482	4,806	67	7.1
12696_12481	12696	12481	12,007	672	14.9
12760_12504	12760	12504	1,794	22	6.2
12760_12519	12760	12519	5,734	482	5.6
12760_12756	12760	12756	2,022	95	21.0
12765_12543	12765	12543	2,125	1,515	32.0
12773_12595	12773	12595	5,125	118	21.9
12781_12338	12781	12338	3,850	189	23.4
12781_12341	12781	12341	3,949	39	14.6
12781_12543	12781	12543	1,185	-	18.7
12840_12510	12840	12510	2,994	138	11.1
12847_12344	12847	12344	-	-	14.3
12847_12633	12847	12633	7,567	333	28.7
12848_12357	12848	12357	1,993	171	25.1
12867_12160	12867	12160	780	33	23.0

Road	A node	B node	Without the Proposed Scheme		
			AADT	HDVs	Speed (kph) ¹
12870_12502	12870	12502	42,550	2,170	57.6
12871_12501	12871	12501	18,477	2,106	44.8
12902_12226	12902	12226	17,932	2,313	6.3
12904_12481	12904	12481	8,024	818	27.9
12915_12538	12915	12538	1,490	-	11.9
12915_12840	12915	12840	2,904	136	14.8
12916_12512	12916	12512	8,349	1,653	5.9
12917_12508	12917	12508	11,477	505	87.8
13085_12228	13085	12228	44,607	2,676	2.3
13085_12476	13085	12476	38,407	2,458	9.5
13105_12223	13105	12223	49,751	2,090	6.6
13105_13070	13105	13070	41,009	2,584	27.6
13124_12605	13124	12605	747	21	5.5
13124_12609	13124	12609	5,092	835	8.3
13186_12223	13186	12223	4,214	181	6.5
13207_12225	13207	12225	42,259	2,282	6.9
13207_12291	13207	12291	48,585	2,915	5.7
13207_12401	13207	12401	5	5	20.8
13245_12007	13245	12007	6,433	766	28.4
13245_12376	13245	12376	5,839	636	10.3

Road	A node	B node	Without the Proposed Scheme		
			AADT	HDVs	Speed (kph) ¹
13245_12379	13245	12379	677	5	20.2
13270_12381	13270	12381	21,504	1,763	14.5
13273_12337	13273	12337	1,237	-	8.6
13274_13273	13274	13273	5,226	-	34.7
13275_12412	13275	12412	5,206	-	11.8
13275_13272	13275	13272	765	-	25.0
13275_13273	13275	13273	1,819	-	24.7
13277_12370	13277	12370	5,747	466	18.1
13277_12425	13277	12425	1,934	284	21.8
13278_12337	13278	12337	18,258	2,209	4.9
13279_12370	13279	12370	14,202	1,946	12.9
13283_12055	13283	12055	2,691	562	25.9
13287_12004	13287	12004	-	-	22.5
13287_12381	13287	12381	8,660	1,386	27.2
13287_12389	13287	12389	10,976	1,427	17.8
13288_12399	13288	12399	626	-	24.7
13288_13274	13288	13274	5,226	-	23.3
13293_12412	13293	12412	14,660	1,569	25.3
13333_12291	13333	12291	482	-	6.1
13333_13288	13333	13288	1,359	-	4.8

Road	A node	B node	Without the Proposed Scheme		
			AADT	HDVs	Speed (kph) ¹
13335_12223	13335	12223	3,340	10	12.8
13335_12426	13335	12426	606	73	13.6
13337_12055	13337	12055	2,706	574	21.9
13337_12376	13337	12376	11,869	1,424	7.3
13337_13271	13337	13271	11,844	876	11.7
13338_12008	13338	12008	473	4	24.3
13338_12380	13338	12380	8,258	553	17.0
13340_12370	13340	12370	12,647	1,568	19.2
13340_12412	13340	12412	15,271	1,619	29.5
13352_12492	13352	12492	7,210	642	1.8
13352_12504	13352	12504	5,015	451	6.0
13353_13105	13353	13105	1,120	181	4.9
13354_13353	13354	13353	5,554	233	18.8
13355_13354	13355	13354	5,554	233	20.4
13356_12486	13356	12486	-	-	6.3
13356_12513	13356	12513	1,559	733	14.1
13356_13355	13356	13355	6,044	272	19.6
13357_12486	13357	12486	41,181	2,718	14.4
13357_13070	13357	13070	44,188	1,812	10.3
13358_12679	13358	12679	1,000	293	8.7

Road	A node	B node	Without the Proposed Scheme		
			AADT	HDVs	Speed (kph) ¹
13358_13085	13358	13085	-	-	14.2
13387_12159	13387	12159	2,283	75	24.6
13387_13272	13387	13272	1,651	-	37.0
13390_12193	13390	12193	10,498	462	24.7
13391_12228	13391	12228	-	-	8.5
13391_13288	13391	13288	3,715	-	16.7
13431_12534	13431	12534	3,984	1,518	25.4
13431_12538	13431	12538	5,715	1,526	12.3
13431_12840	13431	12840	277	-	24.2
13478_12902	13478	12902	17,926	2,330	32.0
13480_12493	13480	12493	12,276	1,755	8.2
13480_13478	13480	13478	2,366	104	10.7
13481_12401	13481	12401	11,489	379	25.1
13481_12491	13481	12491	6,461	271	29.4
13482_13390	13482	13390	10,498	462	38.0
13483_13270	13483	13270	28,920	1,995	16.9
13483_13293	13483	13293	14,660	1,569	40.0
13992_12511	13992	12511	4,447	27	12.9
13992_13186	13992	13186	4,214	181	25.0
13992_13352	13992	13352	1,416	16	19.2

Road	A node	B node	Without the Proposed Scheme		
			AADT	HDVs	Speed (kph) ¹
13992_13353	13992	13353	565	4	23.0
14004_12228	14004	12228	37,904	2,426	8.1
14004_12480	14004	12480	7,442	37	32.3
14073_14065	14073	14065	13,616	885	32.0
14116_14114	14116	14114	829	27	25.0
14117_14116	14117	14116	462	11	16.3
14144_14142	14144	14142	549	15	10.0
14211_14136	14211	14136	9,780	215	6.7
14212_14129	14212	14129	10,522	652	27.4
14219_14211	14219	14211	3,659	-	15.6
14221_14130	14221	14130	8,362	1,681	10.3
14222_14138	14222	14138	7,419	786	12.0
14222_14142	14222	14142	71	9	7.3
14235_12399	14235	12399	328	-	22.9
14235_14219	14235	14219	1,465	-	23.3
14253_14129	14253	14129	12,950	712	33.1
14284_12904	14284	12904	7,286	765	11.2
14288_12417	14288	12417	11,685	1,519	29.0
14288_12422	14288	12422	7,162	1,590	19.9
14288_13124	14288	13124	5,854	855	30.3

Road	A node	B node	Without the Proposed Scheme		
			AADT	HDVs	Speed (kph) ¹
14291_12081	14291	12081	1,474	-	15.6
14293_14109	14293	14109	32,609	4,076	12.7
14294_14069	14294	14069	30,934	2,537	5.9
14294_14070	14294	14070	37,967	3,569	5.4
14295_14293	14295	14293	20,443	1,983	4.4
14296_14099	14296	14099	6,024	343	2.5
14297_14069	14297	14069	282	18	5.1
14299_14069	14299	14069	33,560	2,752	5.5
14300_14295	14300	14295	4,175	1,002	5.4
14301_14099	14301	14099	1,085	319	4.3
14303_14067	14303	14067	29,590	2,278	1.1
14303_14301	14303	14301	34,638	1,593	1.6
14306_14305	14306	14305	2,670	1,396	18.8
14308_14065	14308	14065	13,068	1,294	29.1
14312_14308	14312	14308	13,286	1,315	3.4
14313_14305	14313	14305	36,429	1,785	30.3
14314_14283	14314	14283	10,125	486	6.0
14315_14283	14315	14283	47,825	2,439	3.2
14318_14311	14318	14311	4,934	128	13.8
14320_14292	14320	14292	3,491	84	23.0

Road	A node	B node	Without the Proposed Scheme		
			AADT	HDVs	Speed (kph) ¹
14321_14318	14321	14318	5,993	186	24.7
14322_14321	14322	14321	1,418	-	29.4
14323_14319	14323	14319	17,106	3,045	11.4
14324_14309	14324	14309	15,707	1,775	2.7
14326_14324	14326	14324	5,273	728	7.2
14329_14323	14329	14323	16,431	2,810	14.7
14333_14329	14333	14329	24,784	3,445	32.9
14336_14280	14336	14280	999	95	22.0
14336_14335	14336	14335	5,532	708	24.1
14340_14281	14340	14281	6,351	248	21.9
14343_14292	14343	14292	8,188	352	22.2
14343_14309	14343	14309	2,579	106	7.5
14343_14326	14343	14326	2,419	150	20.0
14344_14340	14344	14340	18,998	2,432	15.2
14353_14344	14353	14344	11,208	1,872	7.7
14358_12358	14358	12358	3,902	1,522	26.1
14363_14302	14363	14302	5,571	864	17.3
14364_14297	14364	14297	2,727	136	30.0
14364_14304	14364	14304	3,454	97	11.2
14365_14282	14365	14282	10,625	574	8.1

Road	A node	B node	Without the Proposed Scheme		
			AADT	HDVs	Speed (kph) ¹
14365_14336	14365	14336	1,507	175	13.9
14368_14304	14368	14304	3,203	135	10.2
14369_14319	14369	14319	4,433	439	1.6
14370_14333	14370	14333	5,952	518	8.9
14371_14290	14371	14290	7,179	287	5.5
14371_14291	14371	14291	4,764	329	13.2
14372_14335	14372	14335	1,887	57	16.3
14373_14326	14373	14326	7,449	886	24.9
14373_14335	14373	14335	1,781	150	28.0
14378_14347	14378	14347	2,978	170	2.7
14381_14288	14381	14288	14,069	1,576	8.8
14382_14280	14382	14280	2,569	85	20.1
14382_14281	14382	14281	-	-	21.6
14382_14282	14382	14282	4,368	275	19.0
14388_14004	14388	14004	43,791	2,452	8.7
14388_14112	14388	14112	14,186	539	30.9
14388_14283	14388	14283	42,419	2,842	3.2
14393_14067	14393	14067	39,142	3,131	4.1
14393_14305	14393	14305	33,029	2,477	25.4
14418_14070	14418	14070	26,402	2,825	8.0

Road	A node	B node	Without the Proposed Scheme		
			AADT	HDVs	Speed (kph) ¹
14418_14109	14418	14109	37,523	3,527	13.9
14436_14342	14436	14342	16,162	2,602	2.8
14436_14344	14436	14344	171	170	6.8
14437_14337	14437	14337	12,552	1,456	2.9
14438_14055	14438	14055	17,424	2,614	26.3
14448_14281	14448	14281	1,011	-	19.1
14448_14344	14448	14344	24,893	2,614	7.2
14449_14347	14449	14347	23,128	2,428	15.0
14450_14347	14450	14347	171	170	8.4
14450_14448	14450	14448	26,107	2,611	22.8
14451_14449	14451	14449	7,444	1,578	29.0
14491_14324	14491	14324	10,585	1,090	1.4
14491_14327	14491	14327	7,560	2,260	8.9
14493_14327	14493	14327	1,153	464	4.0
14505_14293	14505	14293	12,172	2,008	0.8
14522_12413	14522	12413	613	609	32.0
14525_14099	14525	14099	3,357	316	3.9
14526_14301	14526	14301	32,233	2,224	7.6
14526_14521	14526	14521	29,440	2,650	26.1
14526_14525	14526	14525	3,357	316	32.0

Road	A node	B node	Without the Proposed Scheme		
			AADT	HDVs	Speed (kph) ¹
14527_14067	14527	14067	5,042	222	2.4
14527_14320	14527	14320	2,376	38	21.9
14528_14343	14528	14343	1,959	147	13.0
14529_14321	14529	14321	4,567	155	17.4
14531_14308	14531	14308	8,899	1,103	12.6
14532_14334	14532	14334	5,485	450	9.2
14533_14289	14533	14289	1,310	7	19.2
14543_14301	14543	14301	3,184	1,210	1.2
14543_14309	14543	14309	11,024	1,576	2.3
14544_14304	14544	14304	1,736	115	11.8
14544_14309	14544	14309	4,000	268	9.8
14545_14317	14545	14317	5,011	205	24.4
14547_14381	14547	14381	14,069	1,576	32.0
14548_14333	14548	14333	16,736	2,778	3.9
14548_14532	14548	14532	5,485	450	25.0
14549_14284	14549	14284	12,501	788	17.1
14550_14315	14550	14315	-	-	10.1
14550_14533	14550	14533	1,310	7	25.0
14551_14306	14551	14306	3,704	1,500	22.4
14551_14312	14551	14312	8,535	324	4.0

Road	A node	B node	Without the Proposed Scheme		
			AADT	HDVs	Speed (kph) ¹
14552_14307	14552	14307	14,116	1,426	19.4
14552_14551	14552	14551	3,083	903	5.7
14553_14312	14553	14312	19,516	2,322	12.1
14553_14552	14553	14552	3,122	1,214	14.8
14565_14313	14565	14313	45,329	2,901	41.9
14565_14315	14565	14315	47,825	2,439	17.9
14571_14099	14571	14099	2,293	1,064	4.7
14571_14303	14571	14303	578	-	5.9
14572_14320	14572	14320	2,768	138	23.6
14572_14325	14572	14325	4,915	324	6.6
14573_14341	14573	14341	-	-	7.0
14573_14372	14573	14372	1,887	57	30.0
14574_14528	14574	14528	7,869	212	24.0
14580_14280	14580	14280	2,999	714	24.7
14580_14340	14580	14340	11,000	2,145	20.9
14580_14493	14580	14493	1,153	464	31.0
14608_14070	14608	14070	2,911	23	5.7
14609_14296	14609	14296	6,024	343	23.9
14612_14300	14612	14300	196	3	21.2
14614_14236	14614	14236	6,411	218	8.7

Road	A node	B node	Without the Proposed Scheme		
			AADT	HDVs	Speed (kph) ¹
14614_14250	14614	14250	11,811	531	15.3
14615_14612	14615	14612	1,849	205	17.3
14616_14295	14616	14295	-	-	6.2
14617_14294	14617	14294	1,626	2	15.6
14618_14616	14618	14616	1,626	2	23.3
14619_14618	14619	14618	1,626	2	17.3
14621_14300	14621	14300	2,470	657	24.8
14621_14302	14621	14302	3,040	745	9.8
14622_14612	14622	14612	792	59	24.3
14622_14621	14622	14621	1,778	203	18.2
14623_14302	14623	14302	1,957	47	8.4
14623_14304	14623	14304	3,339	290	16.5
14623_14622	14623	14622	917	59	18.3
14624_14295	14624	14295	15,469	727	10.0
14625_14300	14625	14300	2,698	710	20.0
14625_14624	14625	14624	63	63	13.1
14627_14250	14627	14250	12,308	406	25.3
14628_14253	14628	14253	1,085	845	16.2
14648_14211	14648	14211	6,055	218	20.3
14650_14136	14650	14136	7,229	376	3.5

Road	A node	B node	Without the Proposed Scheme		
			AADT	HDVs	Speed (kph) ¹
14650_14137	14650	14137	10,151	305	6.3
14651_14132	14651	14132	7,767	210	12.8
14652_14651	14652	14651	-	-	9.2
14654_14212	14654	14212	3,396	7	12.7
14656_14113	14656	14113	6,147	227	32.0
14656_14648	14656	14648	6,055	218	32.0
14674_14673	14674	14673	-	-	14.7
14679_14131	14679	14131	9,595	739	23.1
14680_14628	14680	14628	1,085	845	22.0
14692_14544	14692	14544	448	55	10.7
14692_14673	14692	14673	-	-	23.8
14695_14691	14695	14691	1,950	-	21.5
14695_14693	14695	14693	10	7	13.4
14696_14679	14696	14679	9,595	739	19.6
14697_14691	14697	14691	60	7	23.8
14697_14696	14697	14696	1,275	11	16.9
14698_14221	14698	14221	7,551	1,571	24.2
14698_14651	14698	14651	1,398	39	7.9
14699_14138	14699	14138	13,684	1,464	7.0
14699_14698	14699	14698	2,875	23	17.6

Road	A node	B node	Without the Proposed Scheme		
			AADT	HDVs	Speed (kph) ¹
14700_14222	14700	14222	12,252	2,365	28.3
14701_14073	14701	14073	13,394	884	3.5
14701_14115	14701	14115	11,604	1,079	12.7
14701_14655	14701	14655	1,358	26	15.9
14704_14117	14704	14117	462	11	18.8
14704_14251	14704	14251	5,381	317	8.3
14705_14692	14705	14692	780	95	14.9
14707_14488	14707	14488	1,843	87	15.2
14707_14706	14707	14706	970	12	25.0
14708_14545	14708	14545	2,596	49	23.0
14708_14707	14708	14707	155	52	22.6
14709_14299	14709	14299	71	-	12.3
14711_14545	14711	14545	2,277	150	28.2
14712_14327	14712	14327	6,414	353	15.0
14713_14711	14713	14711	-	-	13.3
14713_14712	14713	14712	85	32	12.5
14714_14069	14714	14069	7,946	747	1.6
14714_14087	14714	14087	1,988	32	16.0
14714_14604	14714	14604	6,626	292	41.0
14715_14322	14715	14322	1,451	-	16.7

Road	A node	B node	Without the Proposed Scheme		
			AADT	HDVs	Speed (kph) ¹
14715_14713	14715	14713	53	-	21.6
14716_14132	14716	14132	8,540	205	14.0
14720_14318	14720	14318	5,025	116	21.8
14720_14719	14720	14719	7,675	223	23.0
14721_14118	14721	14118	-	-	18.5
14721_14609	14721	14609	6,024	343	27.5
14722_14112	14722	14112	7,765	272	19.5
14722_14113	14722	14113	8,375	218	32.0
14724_14115	14724	14115	1,131	50	5.3
14725_14723	14725	14723	3,834	69	24.3
14725_14724	14725	14724	1,131	50	25.0
14726_13391	14726	13391	329	-	24.2
14726_14004	14726	14004	4,006	68	6.6
14726_14235	14726	14235	2,502	-	24.6
14729_14720	14729	14720	4,808	149	22.1
14731_14055	14731	14055	-	-	20.0
14736_12193	14736	12193	14,150	467	38.5
14736_13387	14736	13387	2,447	76	18.9
14736_14613	14736	14613	3,920	157	24.9
14736_14627	14736	14627	12,308	406	38.0

Road	A node	B node	Without the Proposed Scheme		
			AADT	HDVs	Speed (kph) ¹
14737_12159	14737	12159	1,786	-	23.4
14737_14219	14737	14219	2,285	48	24.3
14744_14118	14744	14118	1,020	57	19.1
14746_14316	14746	14316	1,095	47	15.2
14746_14369	14746	14369	-	-	17.9
14746_14370	14746	14370	-	-	20.9
14748_14292	14748	14292	1,968	128	21.3
14748_14527	14748	14527	4,604	152	13.8
14748_14528	14748	14528	985	90	15.1
14751_14371	14751	14371	2,487	72	17.9
14752_14751	14752	14751	368	5	17.3
14753_14654	14753	14654	4,013	52	24.2
14753_14690	14753	14690	815	519	21.8
14754_14753	14754	14753	-	-	18.2
14755_14654	14755	14654	466	450	26.3
14755_14655	14755	14655	1,916	54	12.6
14755_14754	14755	14754	1,428	76	12.8
14756_14115	14756	14115	16,114	773	14.0
14756_14755	14756	14755	1,363	525	16.9
14759_14758	14759	14758	332	3	19.3

Road	A node	B node	Without the Proposed Scheme		
			AADT	HDVs	Speed (kph) ¹
14760_14137	14760	14137	11,165	1,384	6.7
14761_14691	14761	14691	1,257	11	18.1
14761_14758	14761	14758	20	-	17.7
14762_14690	14762	14690	2,452	27	17.2
14762_14760	14762	14760	3,141	594	21.0
14762_14761	14762	14761	1,517	20	16.8
14763_14761	14763	14761	2	-	16.9
14764_14762	14764	14762	2,572	41	19.1
14765_14763	14765	14763	2	-	20.0
14765_14764	14765	14764	1,403	42	14.8
14766_14764	14766	14764	1,168	-	19.2
14767_14697	14767	14697	3	-	24.4
14767_14765	14767	14765	928	28	26.3
14768_14299	14768	14299	34,590	2,767	12.8
14768_14521	14768	14521	34,119	2,627	20.6
14769_14521	14769	14521	1,316	20	13.5
14769_14709	14769	14709	391	60	15.5
14769_14744	14769	14744	987	56	2.6
14770_14752	14770	14752	368	5	25.0
14771_14323	14771	14323	3,780	291	1.7

Road	A node	B node	Without the Proposed Scheme		
			AADT	HDVs	Speed (kph) ¹
14772_14371	14772	14371	6,352	464	21.8
14775_14129	14775	14129	195	-	17.0
14775_14766	14775	14766	1,168	-	20.0
14775_14767	14775	14767	1,630	2	22.9
14796_14368	14796	14368	3,203	135	28.0
14797_14317	14797	14317	1,019	26	18.1
14797_14529	14797	14529	4,567	155	25.0
14804_14297	14804	14297	245	13	20.3
14804_14692	14804	14692	431	15	21.7
14804_14768	14804	14768	2,319	146	5.0
14902_14130	14902	14130	312	258	17.1
14902_14251	14902	14251	1,816	470	2.7
14903_14709	14903	14709	936	4	13.6
14904_14116	14904	14116	367	15	19.5
14904_14744	14904	14744	66	1	19.0
14904_14903	14904	14903	936	4	20.0
14905_14117	14905	14117	-	-	17.7
14905_14118	14905	14118	-	-	16.0
14905_14904	14905	14904	578	1	19.1
14906_14721	14906	14721	4,076	293	29.3

Road	A node	B node	Without the Proposed Scheme		
			AADT	HDVs	Speed (kph) ¹
14906_14905	14906	14905	-	-	18.2
14907_14251	14907	14251	10,953	99	14.5
14908_14310	14908	14310	16,599	1,975	34.0
14909_14754	14909	14754	1,675	-	19.1
14910_14909	14910	14909	1,675	-	25.0
14911_14655	14911	14655	-	-	14.7
14911_14656	14911	14656	1,219	1	7.4
14911_14910	14911	14910	1,675	-	25.0
14912_14132	14912	14132	4,736	194	3.7
14912_14221	14912	14221	4,551	173	28.7
14912_14902	14912	14902	1,281	119	25.6
15060_14342	15060	14342	171	170	4.4
15060_14437	15060	14437	12,553	1,456	30.6
15501_14073	15501	14073	1,423	68	6.9
15501_14655	15501	14655	900	71	21.3
15501_14722	15501	14722	758	9	20.5
15502_14073	15502	14073	479	4	6.6
15503_14723	15503	14723	2,230	426	15.2
15503_15502	15503	15502	165	1	22.8
15504_15503	15504	15503	-	-	15.6

Road	A node	B node	Without the Proposed Scheme		
			AADT	HDVs	Speed (kph) ¹
15505_15502	15505	15502	-	-	15.8
15505_15504	15505	15504	-	-	25.0
15507_15502	15507	15502	1,331	125	15.8
15509_14306	15509	14306	444	54	12.9
15509_15507	15509	15507	969	121	20.8
15509_15508	15509	15508	-	-	25.0
15511_14723	15511	14723	1,087	36	17.8
15511_15510	15511	15510	1,264	315	19.3
15900_14365	15900	14365	10,545	696	16.2
15900_14366	15900	14366	1,521	173	25.0
15900_14451	15900	14451	-	-	6.6
16000_14108	16000	14108	4,053	158	27.1
16001_14107	16001	14107	8,918	936	26.3
16001_14108	16001	14108	8,682	625	28.9
16045_16000	16045	16000	7,302	299	11.4
16142_14110	16142	14110	12,182	1,096	8.8
16177_14505	16177	14505	1,561	890	28.2
16181_14624	16181	14624	16,055	706	30.0
16183_14625	16183	14625	2,342	740	23.6
16251_16177	16251	16177	1,561	890	5.3

Road	A node	B node	Without the Proposed Scheme		
			AADT	HDVs	Speed (kph) ¹
16252_16251	16252	16251	1,561	890	32.0
16378_14087	16378	14087	6,502	202	15.0
16378_16000	16378	16000	2,753	63	14.4
16381_16251	16381	16251	464	22	16.8
16387_16001	16387	16001	13,052	1,109	16.6
13279_13278	13279	13278	715	28	14.2
14236_14136	14236	14136	10,548	390	14.7
14607_14550	14607	14550	-	-	21.8
14756_14212	14756	14212	10,233	645	13.7
14906_14704	14906	14704	4,841	305	30.6
15506_15503	15506	15503	667	263	16.1
15510_15506	15510	15506	1,321	320	17.7
15511_14067	15511	14067	6,065	522	5.8
12005_12006	12005	12006	398	65	25.0
12007_12008	12007	12008	5,515	6	18.4
12055_12149	12055	12149	722	128	24.1
12154_12155	12154	12155	875	80	23.0
12172_12173	12172	12173	-	-	13.8
12174_12175	12174	12175	1,233	136	21.6
12176_12178	12176	12178	-	-	23.3

Road	A node	B node	Without the Proposed Scheme		
			AADT	HDVs	Speed (kph) ¹
12178_12179	12178	12179	-	-	15.9
12179_12180	12179	12180	-	-	18.8
12193_12194	12193	12194	645	4	25.0
12224_12225	12224	12225	40,458	2,023	5.7
12224_12226	12224	12226	45,586	1,915	3.5
12225_12337	12225	12337	-	-	14.8
12339_12345	12339	12345	4,294	159	13.2
12341_12345	12341	12345	6,865	233	20.2
12353_12354	12353	12354	688	26	13.8
12081_12358	12081	12358	5,823	1,520	17.9
12357_12359	12357	12359	122	-	22.9
12175_12360	12175	12360	1,233	136	22.0
12008_12368	12008	12368	5,904	6	9.0
12368_12376	12368	12376	15,774	1,514	11.5
12005_12380	12005	12380	10,895	556	12.8
12007_12380	12007	12380	8,206	796	10.5
12380_12381	12380	12381	9,177	835	18.7
12005_12387	12005	12387	6,451	406	7.3
12164_12401	12164	12401	5,024	95	14.2
12401_12402	12401	12402	10,072	302	9.3

Road	A node	B node	Without the Proposed Scheme		
			AADT	HDVs	Speed (kph) ¹
12360_12413	12360	12413	1,233	136	17.8
12355_12415	12355	12415	783	70	21.4
12415_12416	12415	12416	-	-	21.4
12416_12418	12416	12418	392	-	15.5
12178_12419	12178	12419	-	-	18.5
12415_12419	12415	12419	528	56	20.2
12180_12421	12180	12421	242	43	16.2
12413_12421	12413	12421	613	609	14.1
12421_12422	12421	12422	613	609	14.1
12354_12423	12354	12423	4,435	284	20.4
12361_12426	12361	12426	11,955	1,470	1.8
12049_12454	12049	12454	1,363	5	24.4
12055_12454	12055	12454	743	-	20.4
12368_12454	12368	12454	3,880	74	23.8
12291_12477	12291	12477	47,259	2,883	13.2
12402_12477	12402	12477	219	-	13.5
12476_12478	12476	12478	38,405	2,458	4.1
12477_12478	12477	12478	44,323	2,881	10.4
12228_12480	12228	12480	992	48	24.0
12480_12482	12480	12482	4,160	79	9.6

Road	A node	B node	Without the Proposed Scheme		
			AADT	HDVs	Speed (kph) ¹
12481_12485	12481	12485	12,521	952	27.2
12226_12486	12226	12486	45,640	1,963	15.3
12402_12487	12402	12487	13,949	488	20.7
12482_12488	12482	12488	489	44	15.2
12485_12489	12485	12489	15,363	1,075	25.6
12223_12492	12223	12492	52,883	2,274	5.4
12489_12495	12489	12495	7,997	840	13.3
12492_12496	12492	12496	51,192	2,048	26.2
12488_12498	12488	12498	489	44	9.3
12426_12499	12426	12499	12,701	1,562	14.5
12426_12501	12426	12501	-	-	26.7
12496_12503	12496	12503	51,048	2,042	53.7
12154_12504	12154	12504	6,414	770	13.2
12503_12505	12503	12505	51,048	2,042	49.8
12496_12506	12496	12506	144	5	13.7
12499_12506	12499	12506	23,631	1,890	13.1
12506_12512	12506	12512	21,867	1,509	18.9
12500_12513	12500	12513	5,857	305	18.5
12447_12518	12447	12518	7,049	1,635	29.9
12460_12518	12460	12518	1,068	14	17.6

Road	A node	B node	Without the Proposed Scheme		
			AADT	HDVs	Speed (kph) ¹
12512_12519	12512	12519	22,807	2,212	10.8
12081_12534	12081	12534	3,584	1,523	28.7
12319_12539	12319	12539	1,570	187	2.0
12538_12539	12538	12539	5,715	1,526	11.0
12539_12543	12539	12543	3,573	1,526	26.4
12487_12577	12487	12577	4,520	122	16.8
12513_12595	12513	12595	1,063	120	23.3
12575_12595	12575	12595	273	74	22.3
12416_12598	12416	12598	-	-	12.2
12417_12598	12417	12598	12,950	1,580	24.3
12352_12604	12352	12604	7,599	988	8.6
12598_12604	12598	12604	10,255	1,354	5.6
12482_12679	12482	12679	602	15	16.4
12482_12696	12482	12696	12,007	672	30.0
12504_12760	12504	12760	7,456	611	22.9
12519_12760	12519	12760	2,636	42	30.7
12756_12760	12756	12760	1	1	20.7
12543_12765	12543	12765	5,025	1,523	27.1
12595_12773	12595	12773	540	12	25.0
12338_12781	12338	12781	3,949	39	17.9

Road	A node	B node	Without the Proposed Scheme		
			AADT	HDVs	Speed (kph) ¹
12341_12781	12341	12781	5,035	186	22.4
12423_12847	12423	12847	7,567	333	27.1
12173_12848	12173	12848	-	-	23.1
12177_12848	12177	12848	1,993	171	23.9
12160_12867	12160	12867	1,485	232	14.4
12226_12867	12226	12867	13,572	1,968	34.9
12501_12870	12501	12870	10,043	793	24.2
12869_12870	12869	12870	29,561	1,448	61.7
12508_12871	12508	12871	22,368	1,857	26.3
12505_12874	12505	12874	32,484	1,072	60.5
12224_12903	12224	12903	15,581	1,885	30.8
12902_12903	12902	12903	-	-	18.2
12481_12904	12481	12904	10,311	588	21.4
12514_12915	12514	12915	1,303	-	24.0
12538_12915	12538	12915	2,904	136	19.3
12840_12915	12840	12915	186	-	15.0
12518_12916	12518	12916	8,349	1,653	36.0
12506_12917	12506	12917	11,477	505	47.0
12228_13085	12228	13085	38,406	2,458	13.1
12476_13085	12476	13085	44,607	2,676	23.2

Road	A node	B node	Without the Proposed Scheme		
			AADT	HDVs	Speed (kph) ¹
12223_13105	12223	13105	39,395	2,561	0.8
13070_13105	13070	13105	44,092	1,808	2.4
12609_13124	12609	13124	6,408	993	20.1
12487_13161	12487	13161	13,305	426	23.1
12223_13186	12223	13186	4,966	25	25.0
12225_13207	12225	13207	48,617	2,917	33.0
12291_13207	12291	13207	35,383	2,265	21.6
12401_13207	12401	13207	4,499	9	13.8
12007_13245	12007	13245	5,914	568	26.3
12376_13245	12376	13245	6,825	730	33.4
12379_13245	12379	13245	168	72	22.5
12381_13270	12381	13270	12,352	1,692	40.0
13273_13274	13273	13274	1,816	-	25.5
12412_13275	12412	13275	2,148	-	30.3
13272_13275	13272	13275	1,651	-	22.4
13273_13275	13273	13275	3,992	-	24.6
12370_13277	12370	13277	1,945	286	25.0
12425_13277	12425	13277	5,747	466	32.0
12370_13278	12370	13278	16,981	2,123	29.6
12867_13279	12867	13279	13,684	1,970	34.8

Road	A node	B node	Without the Proposed Scheme		
			AADT	HDVs	Speed (kph) ¹
12055_13283	12055	13283	2,911	550	26.2
12004_13287	12004	13287	147	-	19.8
12381_13287	12381	13287	15,959	1,644	38.8
12389_13287	12389	13287	4,738	910	35.8
12399_13288	12399	13288	393	-	18.0
13274_13288	13274	13288	1,816	-	24.4
12412_13293	12412	13293	21,284	1,618	45.0
12291_13333	12291	13333	1,657	-	25.0
13288_13333	13288	13333	366	-	25.0
12223_13335	12223	13335	5,794	255	25.1
12055_13337	12055	13337	2,074	533	9.1
12376_13337	12376	13337	14,530	1,221	11.0
13271_13337	13271	13337	9,968	1,126	2.2
12008_13338	12008	13338	1,934	2	19.7
12380_13338	12380	13338	8,831	627	38.0
12370_13340	12370	13340	15,271	1,619	39.0
12412_13340	12412	13340	12,647	1,568	44.0
12492_13352	12492	13352	4,740	450	27.7
12504_13352	12504	13352	5,767	629	28.3
13070_13354	13070	13354	-	-	19.6

Road	A node	B node	Without the Proposed Scheme		
			AADT	HDVs	Speed (kph) ¹
13353_13354	13353	13354	807	10	21.7
13354_13355	13354	13355	807	10	21.1
12486_13356	12486	13356	2,599	767	22.0
12513_13356	12513	13356	4,428	261	25.5
13355_13356	13355	13356	807	10	12.4
12486_13357	12486	13357	43,394	1,779	15.3
13070_13357	13070	13357	41,181	2,718	27.1
13355_13357	13355	13357	490	36	13.4
12476_13358	12476	13358	1,000	293	24.4
13085_13358	13085	13358	-	-	19.7
12159_13387	12159	13387	2,027	-	23.5
13272_13387	13272	13387	765	-	24.6
12193_13390	12193	13390	13,506	459	42.0
12228_13391	12228	13391	3,480	-	20.4
13288_13391	13288	13391	2,100	-	25.0
12534_13431	12534	13431	6,077	1,525	23.7
12538_13431	12538	13431	3,984	1,518	28.9
12500_13478	12500	13478	14,621	2,193	21.8
12903_13480	12903	13480	15,581	1,885	30.3
12491_13481	12491	13481	9,575	354	28.5

Road	A node	B node	Without the Proposed Scheme		
			AADT	HDVs	Speed (kph) ¹
13270_13482	13270	13482	18,685	1,943	22.3
13390_13482	13390	13482	13,506	459	29.0
13293_13483	13293	13483	21,284	1,618	36.6
13482_13483	13482	13483	22,233	1,957	4.9
12511_13992	12511	13992	1,614	160	22.7
13186_13992	13186	13992	4,966	25	26.0
13353_13992	13353	13992	3,939	43	14.2
12228_14004	12228	14004	43,847	2,719	11.9
12480_14004	12480	14004	3,284	420	8.1
14065_14073	14065	14073	13,068	1,294	14.4
14107_14108	14107	14108	-	-	19.2
14109_14110	14109	14110	28,672	2,437	14.3
14114_14116	14114	14116	918	25	15.0
14116_14117	14116	14117	472	21	19.1
14130_14131	14130	14131	9,402	583	17.9
14138_14139	14138	14139	13,962	1,745	9.8
14141_14142	14141	14142	15,431	478	22.0
14142_14144	14142	14144	5,235	215	22.9
14136_14211	14136	14211	6,123	227	10.9
14129_14212	14129	14212	11,680	771	2.1

Road	A node	B node	Without the Proposed Scheme		
			AADT	HDVs	Speed (kph) ¹
14211_14219	14211	14219	2,217	-	21.4
14142_14222	14142	14222	-	-	20.3
12399_14235	12399	14235	1,926	62	22.6
14219_14235	14219	14235	1,313	7	23.7
14251_14253	14251	14253	12,124	145	30.9
12904_14284	12904	14284	7,661	536	24.0
12417_14288	12417	14288	6,791	862	11.3
12422_14288	12422	14288	613	609	14.1
13124_14288	13124	14288	6,235	985	15.7
12489_14289	12489	14289	4,537	159	20.6
14069_14294	14069	14294	38,031	3,613	18.3
14070_14294	14070	14294	28,367	2,525	14.6
14099_14296	14099	14296	5,425	358	16.2
14069_14297	14069	14297	3,556	89	25.8
14069_14299	14069	14299	34,063	2,623	11.8
14099_14301	14099	14301	4,970	353	4.8
14067_14303	14067	14303	36,811	2,319	5.8
14301_14303	14301	14303	28,568	1,943	13.3
14305_14307	14305	14307	2,248	1,241	9.7
14305_14313	14305	14313	30,781	1,231	31.6

Road	A node	B node	Without the Proposed Scheme		
			AADT	HDVs	Speed (kph) ¹
14312_14313	14312	14313	17,041	1,193	31.2
14112_14314	14112	14314	10,125	486	33.0
14283_14315	14283	14315	45,330	2,901	18.9
14310_14316	14310	14316	11,584	1,587	25.4
14311_14318	14311	14318	5,704	302	28.9
14292_14320	14292	14320	9,154	384	21.8
14318_14321	14318	14321	7,310	351	25.9
14321_14322	14321	14322	6,327	323	28.8
14309_14324	14309	14324	6,621	1,655	3.2
14316_14325	14316	14325	12,819	1,628	13.0
14324_14326	14324	14326	261	30	16.6
14325_14334	14325	14334	14,239	1,609	17.9
14280_14336	14280	14336	4,057	564	8.0
14335_14336	14335	14336	1,781	150	5.7
14334_14338	14334	14338	20,511	2,031	9.2
14281_14340	14281	14340	-	-	4.3
14292_14343	14292	14343	4,487	175	5.6
14309_14343	14309	14343	5,496	313	7.4
14326_14343	14326	14343	2,767	58	13.4
14340_14344	14340	14344	11,000	2,145	3.4

Road	A node	B node	Without the Proposed Scheme		
			AADT	HDVs	Speed (kph) ¹
14055_14350	14055	14350	17,424	2,614	2.8
14344_14353	14344	14353	9,353	1,562	5.1
12358_14358	12358	14358	5,823	1,520	8.8
14302_14363	14302	14363	4,379	604	32.0
14297_14364	14297	14364	3,454	97	26.3
14304_14364	14304	14364	2,727	136	27.5
14282_14365	14282	14365	2,327	175	19.6
14336_14365	14336	14365	781	55	20.4
14304_14368	14304	14368	1,799	85	32.0
14310_14369	14310	14369	4,433	439	24.0
14325_14370	14325	14370	3,391	275	22.9
14291_14371	14291	14371	165	49	22.2
14326_14373	14326	14373	1,781	150	28.0
14335_14373	14335	14373	7,319	761	28.0
14352_14378	14352	14378	2,978	170	32.0
14288_14381	14288	14381	3,006	69	32.0
14280_14382	14280	14382	996	167	19.5
14281_14382	14281	14382	7,362	243	15.6
14282_14382	14282	14382	289	35	21.0
14004_14388	14004	14388	47,701	3,244	1.0

Road	A node	B node	Without the Proposed Scheme		
			AADT	HDVs	Speed (kph) ¹
14283_14388	14283	14388	39,129	2,269	1.3
14284_14388	14284	14388	12,655	557	8.7
14067_14393	14067	14393	33,029	2,477	27.4
14305_14393	14305	14393	39,105	3,168	24.2
14070_14418	14070	14418	37,524	3,527	29.2
14109_14418	14109	14418	26,500	2,809	31.1
14338_14435	14338	14435	1,946	53	28.5
14342_14436	14342	14436	171	170	30.0
14344_14436	14344	14436	22,148	2,813	28.2
14337_14437	14337	14437	9,734	1,304	28.6
14342_14438	14342	14438	7,856	1,477	23.4
14437_14438	14437	14438	9,563	1,138	24.1
14344_14448	14344	14448	171	170	40.0
14282_14449	14282	14449	12,378	644	24.8
14347_14449	14347	14449	171	170	40.0
14347_14450	14347	14450	26,107	2,611	40.0
14448_14450	14448	14450	171	170	30.0
14449_14451	14449	14451	171	170	16.3
14324_14491	14324	14491	7,560	2,260	31.0
14327_14491	14327	14491	10,585	1,090	31.0

Road	A node	B node	Without the Proposed Scheme		
			AADT	HDVs	Speed (kph) ¹
14327_14493	14327	14493	12,036	2,528	31.0
14110_14505	14110	14505	10,631	1,095	23.1
12413_14522	12413	14522	8,390	1,787	20.4
14099_14525	14099	14525	1,239	698	32.0
14301_14526	14301	14526	31,399	1,664	9.2
14521_14526	14521	14526	32,632	2,545	10.3
14525_14526	14525	14526	1,239	698	3.1
14067_14527	14067	14527	3,684	405	21.8
14320_14527	14320	14527	3,030	42	24.2
14343_14528	14343	14528	1,119	70	21.9
14321_14529	14321	14529	957	27	25.0
14313_14531	14313	14531	8,899	1,103	32.0
14301_14543	14301	14543	19,637	1,787	11.3
14309_14543	14309	14543	12,541	1,630	27.2
14304_14544	14304	14544	3,706	293	19.5
14309_14544	14309	14544	2,959	107	20.4
14381_14547	14381	14547	3,006	69	27.0
14283_14549	14283	14549	14,155	793	28.5
14549_14550	14549	14550	1,305	7	28.6
14065_14551	14065	14551	13,616	885	5.1

Road	A node	B node	Without the Proposed Scheme		
			AADT	HDVs	Speed (kph) ¹
14308_14551	14308	14551	7,697	824	1.2
14551_14552	14551	14552	13,659	983	8.7
14319_14553	14319	14553	22,637	3,531	33.6
14313_14565	14313	14565	47,825	2,439	26.2
14315_14565	14315	14565	45,330	2,901	16.8
14099_14571	14099	14571	917	349	31.0
14303_14571	14303	14571	1,991	757	27.0
14320_14572	14320	14572	7,762	427	21.6
14325_14572	14325	14572	862	52	23.0
14435_14572	14435	14572	159	1	20.4
14435_14573	14435	14573	1,788	52	30.5
14543_14574	14543	14574	7,869	212	30.0
14280_14580	14280	14580	1,221	95	7.9
14340_14580	14340	14580	5,226	1,725	5.0
14493_14580	14493	14580	12,036	2,528	5.1
14553_14607	14553	14607	-	-	23.6
14070_14608	14070	14608	1,725	181	32.0
14296_14609	14296	14609	5,425	358	32.0
14300_14612	14300	14612	811	57	21.6
14236_14614	14236	14614	11,811	531	38.0

Road	A node	B node	Without the Proposed Scheme		
			AADT	HDVs	Speed (kph) ¹
14250_14614	14250	14614	6,411	218	38.0
14612_14615	14612	14615	1,603	115	25.0
14070_14617	14070	14617	-	-	20.8
14616_14617	14616	14617	1,626	2	22.6
14418_14618	14418	14618	58	-	23.4
14618_14619	14618	14619	58	-	25.0
14300_14621	14300	14621	895	448	26.3
14302_14621	14302	14621	2,311	659	28.9
14612_14622	14612	14622	1,653	203	24.4
14621_14622	14621	14622	-	-	23.7
14302_14623	14302	14623	3,456	297	23.5
14304_14623	14304	14623	2,770	100	29.0
14624_14625	14624	14625	419	32	14.0
14250_14627	14250	14627	10,872	424	38.0
14211_14648	14211	14648	4,312	224	32.0
14136_14650	14136	14650	10,151	305	36.0
14137_14650	14137	14650	7,229	376	36.0
14142_14651	14142	14651	8,404	269	21.8
14651_14652	14651	14652	1,398	39	20.2
14113_14656	14113	14656	8,375	218	18.1

Road	A node	B node	Without the Proposed Scheme		
			AADT	HDVs	Speed (kph) ¹
14648_14656	14648	14656	4,312	224	20.3
14526_14673	14526	14673	268	1	21.3
14673_14674	14673	14674	268	1	25.0
14129_14680	14129	14680	8,845	770	29.6
14130_14680	14130	14680	852	845	24.7
14136_14690	14136	14690	3,861	58	30.9
14673_14692	14673	14692	-	-	20.4
14138_14695	14138	14695	8,171	678	31.5
14691_14695	14691	14695	43	7	20.6
14693_14695	14693	14695	1,032	6	20.9
14680_14696	14680	14696	8,521	767	30.2
14691_14697	14691	14697	1,329	11	19.9
14696_14697	14696	14697	488	45	22.6
14222_14698	14222	14698	5,883	1,506	29.1
14651_14698	14651	14698	-	-	20.5
14131_14699	14131	14699	18,649	1,511	30.5
14073_14701	14073	14701	10,319	1,259	25.7
14115_14701	14115	14701	13,513	770	23.0
14655_14701	14655	14701	1,945	47	23.1
14117_14704	14117	14704	470	19	13.9

Road	A node	B node	Without the Proposed Scheme		
			AADT	HDVs	Speed (kph) ¹
14251_14704	14251	14704	4,606	299	29.0
14692_14705	14692	14705	430	14	25.0
14488_14707	14488	14707	2,315	42	20.9
14706_14707	14706	14707	1,716	34	15.2
14544_14708	14544	14708	1,377	72	19.1
14707_14708	14707	14708	1,374	29	22.0
14299_14709	14299	14709	667	25	19.8
14324_14711	14324	14711	3,726	183	26.8
14322_14712	14322	14712	6,327	323	22.2
14711_14713	14711	14713	1,376	32	21.2
14712_14713	14712	14713	-	-	17.6
14087_14714	14087	14714	8,198	320	23.8
14604_14714	14604	14714	9,033	334	10.0
14317_14715	14317	14715	57	-	24.0
14713_14715	14713	14715	1,344	-	21.1
14132_14716	14132	14716	5,566	301	17.0
14318_14720	14318	14720	4,198	105	22.9
14719_14720	14719	14720	7,098	334	12.3
14118_14721	14118	14721	380	-	12.7
14609_14721	14609	14721	5,425	358	22.2

Road	A node	B node	Without the Proposed Scheme		
			AADT	HDVs	Speed (kph) ¹
14112_14722	14112	14722	11,824	331	25.3
14113_14722	14113	14722	6,147	227	30.0
14115_14724	14115	14724	3,834	69	25.0
14723_14725	14723	14725	1,087	36	23.6
14724_14725	14724	14725	3,834	69	16.1
13391_14726	13391	14726	2,100	-	20.8
14004_14726	14004	14726	1,498	-	24.0
14235_14726	14235	14726	3,239	68	24.4
14436_14729	14436	14729	4,808	149	22.4
14720_14729	14720	14729	3,404	255	22.7
12193_14736	12193	14736	10,831	466	18.4
13387_14736	13387	14736	1,305	-	11.6
14613_14736	14613	14736	9,338	187	8.8
14627_14736	14627	14736	10,872	424	17.5
12159_14737	12159	14737	2,285	48	16.1
14219_14737	14219	14737	1,786	-	16.9
14118_14744	14118	14744	337	16	15.3
14323_14746	14323	14746	1,095	47	28.0
14369_14746	14369	14746	-	-	18.2
14292_14748	14292	14748	7	3	22.1

Road	A node	B node	Without the Proposed Scheme		
			AADT	HDVs	Speed (kph) ¹
14527_14748	14527	14748	297	128	17.7
14528_14748	14528	14748	8,061	242	26.0
14289_14751	14289	14751	6,876	172	22.4
14371_14751	14371	14751	-	-	17.8
14654_14753	14654	14753	466	450	24.8
14690_14753	14690	14753	4,644	65	25.5
14753_14754	14753	14754	454	-	19.5
14654_14755	14654	14755	680	42	26.3
14655_14755	14655	14755	709	77	23.4
14754_14755	14754	14755	1,848	13	14.1
14115_14756	14115	14756	11,015	1,079	22.9
14755_14756	14755	14756	552	1	16.4
14695_14758	14695	14758	7,227	679	17.1
14758_14760	14758	14760	7,220	657	24.2
14691_14761	14691	14761	1,896	-	17.6
14758_14761	14758	14761	359	30	18.5
14690_14762	14690	14762	2,461	640	17.2
14761_14762	14761	14762	2,136	26	16.6
14761_14763	14761	14763	361	12	20.0
14763_14765	14763	14765	361	12	13.5

Road	A node	B node	Without the Proposed Scheme		
			AADT	HDVs	Speed (kph) ¹
14764_14765	14764	14765	-	-	25.6
14764_14766	14764	14766	-	-	20.0
14697_14767	14697	14767	461	38	17.9
14765_14767	14765	14767	-	-	18.6
14299_14768	14299	14768	34,119	2,627	12.2
14521_14768	14521	14768	30,976	2,602	6.0
14521_14769	14521	14769	1,312	115	13.9
14709_14769	14709	14769	1,046	5	18.2
14744_14769	14744	14769	337	16	1.3
14319_14770	14319	14770	582	5	23.1
14607_14770	14607	14770	-	-	19.5
14751_14771	14751	14771	3,780	291	22.7
14770_14771	14770	14771	215	-	17.1
14329_14772	14329	14772	6,137	466	26.5
14771_14772	14771	14772	215	-	17.2
14129_14775	14129	14775	2,799	-	23.0
14766_14775	14766	14775	-	-	12.1
14767_14775	14767	14775	195	-	23.2
14317_14796	14317	14796	6,032	199	28.2
14368_14796	14368	14796	1,799	85	19.8

Road	A node	B node	Without the Proposed Scheme		
			AADT	HDVs	Speed (kph) ¹
14529_14797	14529	14797	957	27	18.9
14796_14797	14796	14797	4,629	153	27.8
14297_14804	14297	14804	2,663	136	19.8
14692_14804	14692	14804	332	41	21.0
14130_14902	14130	14902	335	332	30.6
14251_14902	14251	14902	1,539	269	15.1
14709_14903	14709	14903	932	72	20.0
14116_14904	14116	14904	446	4	17.8
14744_14904	14744	14904	33	-	15.9
14903_14904	14903	14904	932	72	14.2
14117_14905	14117	14905	2	2	17.6
14118_14905	14118	14905	632	1	15.8
14904_14905	14904	14905	606	58	19.1
14721_14906	14721	14906	3,859	255	29.6
14905_14906	14905	14906	607	59	13.5
14132_14907	14132	14907	10,953	99	33.0
14307_14908	14307	14908	12,162	1,970	32.2
14527_14908	14527	14908	3,842	8	22.4
14754_14909	14754	14909	1,382	1	25.0
14909_14910	14909	14910	1,382	1	25.0

Road	A node	B node	Without the Proposed Scheme		
			AADT	HDVs	Speed (kph) ¹
14655_14911	14655	14911	-	-	23.8
14656_14911	14656	14911	1,471	-	23.4
14910_14911	14910	14911	1,382	1	15.1
14132_14912	14132	14912	4,677	224	15.2
14221_14912	14221	14912	5,126	190	24.1
14902_14912	14902	14912	827	18	24.1
14342_15060	14342	15060	8,305	1,129	26.4
14437_15060	14437	15060	171	170	32.0
14729_15060	14729	15060	3,404	255	24.9
14073_15501	14073	15501	2,082	33	23.9
14655_15501	14655	15501	1,580	28	24.4
14722_15501	14722	15501	768	67	24.0
14073_15502	14073	15502	1,423	68	21.0
15502_15503	15502	15503	1,801	180	22.6
15503_15504	15503	15504	-	-	25.0
15502_15505	15502	15505	-	-	25.0
15504_15505	15504	15505	-	-	25.0
15502_15507	15502	15507	539	2	21.1
15506_15507	15506	15507	107	50	19.3
14306_15509	14306	15509	1,137	140	17.8

Road	A node	B node	Without the Proposed Scheme		
			AADT	HDVs	Speed (kph) ¹
15507_15509	15507	15509	707	54	20.9
15508_15510	15508	15510	57	5	21.3
14723_15511	14723	15511	3,824	478	15.8
14365_15900	14365	15900	1,521	173	18.8
14366_15900	14366	15900	10,545	696	23.0
14108_16000	14108	16000	8,682	625	4.9
14108_16001	14108	16001	4,053	158	12.4
16000_16045	16000	16045	7,663	628	27.0
14107_16142	14107	16142	8,918	936	22.2
14110_16177	14110	16177	31,579	2,779	19.9
16177_16180	16177	16180	6,964	766	24.5
16177_16251	16177	16251	23,625	1,843	31.5
16251_16252	16251	16252	24,345	1,875	30.0
14087_16378	14087	16378	2,753	63	25.0
16000_16378	16000	16378	6,502	202	25.0
14109_16387	14109	16387	13,371	1,417	32.0
14136_14236	14136	14236	6,162	388	25.3
14212_14756	14212	14756	16,114	773	32.0
14704_14906	14704	14906	4,075	293	30.7
14067_15511	14067	15511	6,510	599	17.6

CFA001 Construction Traffic Data - Test 1

Table 2: Traffic data used in the construction assessment

Road	A node	B node	Without the Proposed Scheme			With the Proposed Scheme			Change in AADT	Change in HDVs	Change in Speed
			AADT	HDVs	Speed (kph) ¹	AADT	HDVs	Speed (kph) ¹			
12006_12005	12006	12005	532	10	15.3	540	10	15.3	8	0	0.0
12008_12007	12008	12007	1,982	6	17.8	1,770	5	17.7	-212	-1	0.0
12155_12154	12155	12154	2,133	96	14.3	2,096	96	14.3	-37	0	0.0
12176_12175	12176	12175	0	0	18.7	0	0	18.7	0	0	0.0
12178_12177	12178	12177	0	0	15.6	0	0	15.6	0	0	0.0
12194_12193	12194	12193	504	8	12.7	277	84	11.8	-227	76	-0.8
12225_12224	12225	12224	46,676	2,100	6.6	47,091	2,213	6.6	415	113	0.0
12226_12224	12226	12224	38,973	2,299	11.3	38,815	2,290	11.2	-158	-9	-0.1
12337_12224	12337	12224	8,690	1,277	1.1	8,697	1,287	1.0	7	10	-0.1
12337_12225	12337	12225	3,118	705	17.4	3,420	807	16.9	302	102	-0.4
12344_12343	12344	12343	5,111	189	24.2	5,086	188	24.2	-25	-1	0.0
12345_12339	12345	12339	5,557	161	25.0	5,557	161	25.0	0	0	0.0
12345_12344	12345	12344	5,111	189	20.9	5,086	188	20.9	-25	-1	0.0
12355_12354	12355	12354	4,532	276	22.0	4,456	263	22.0	-76	-14	0.0
12356_12172	12356	12172	0	0	25.0	0	0	25.0	0	0	0.0
12357_12176	12357	12176	0	0	24.3	0	0	24.3	0	0	0.0
12358_12081	12358	12081	5,542	1,530	6.1	5,602	1,524	6.1	60	-6	0.0

Road	A node	B node	Without the Proposed Scheme			With the Proposed Scheme			Change in AADT	Change in HDVs	Change in Speed
			AADT	HDVs	Speed (kph) ¹	AADT	HDVs	Speed (kph) ¹			
12359_12081	12359	12081	70	0	7.6	81	0	7.6	11	0	0.0
12359_12174	12359	12174	968	119	25.0	984	119	25.0	16	0	0.0
12360_12179	12360	12179	0	0	21.8	0	0	21.8	0	0	0.0
12362_12361	12362	12361	994	10	22.0	987	9	22.0	-7	-1	0.0
12368_12008	12368	12008	3,749	94	28.5	3,545	92	28.5	-204	-2	0.1
12376_12368	12376	12368	12,684	1,725	35.7	12,734	1,681	35.5	50	-44	-0.2
12380_12005	12380	12005	5,424	369	40.6	5,425	358	40.6	1	-11	0.0
12380_12007	12380	12007	12,228	648	35.8	12,127	606	35.6	-101	-42	-0.1
12381_12380	12381	12380	8,800	493	21.5	9,160	440	21.3	360	-53	-0.2
12387_12005	12387	12005	9,728	496	37.6	9,647	502	37.6	-81	6	0.0
12401_12164	12401	12164	1,620	152	25.0	1,619	152	25.0	-1	0	0.0
12413_12360	12413	12360	0	0	19.1	0	0	19.1	0	0	0.0
12415_12177	12415	12177	1,733	151	23.4	1,760	151	23.4	27	1	0.0
12416_12415	12416	12415	1,420	129	13.6	1,438	129	13.6	18	0	0.0
12418_12417	12418	12417	2,040	82	10.4	2,015	81	10.4	-25	-1	0.0
12419_12180	12419	12180	0	0	22.7	0	0	22.7	0	0	0.0
12419_12418	12419	12418	0	0	21.6	0	0	21.6	0	0	0.0
12421_12413	12421	12413	3,130	1,315	25.6	3,213	1,321	25.6	83	6	0.0
12422_12418	12422	12418	0	0	19.5	0	0	19.5	0	0	0.0
12422_12421	12422	12421	2,818	1,313	25.7	2,870	1,320	25.7	52	7	0.0

Road	A node	B node	Without the Proposed Scheme			With the Proposed Scheme			Change in AADT	Change in HDVs	Change in Speed
			AADT	HDVs	Speed (kph) ¹	AADT	HDVs	Speed (kph) ¹			
12426_12361	12426	12361	16,229	1,574	28.2	16,121	1,548	28.1	-108	-27	0.0
12454_12368	12454	12368	2,138	4	13.1	2,027	4	13.1	-111	0	0.0
12477_12291	12477	12291	37,343	2,017	11.8	37,618	2,144	11.6	275	128	-0.2
12477_12402	12477	12402	4,216	257	28.8	4,346	252	28.8	130	-5	0.0
12478_12476	12478	12476	43,257	2,898	5.6	44,907	3,009	5.2	1,650	111	-0.4
12478_12477	12478	12477	39,502	2,331	3.5	38,963	2,455	3.4	-539	124	-0.1
12480_12228	12480	12228	4,677	5	7.3	4,825	10	7.1	148	5	-0.2
12482_12480	12482	12480	4,578	293	20.4	5,123	307	20.1	545	14	-0.3
12486_12226	12486	12226	34,402	1,927	9.2	33,963	1,902	8.6	-439	-25	-0.6
12488_12482	12488	12482	9,691	911	5.9	9,533	887	6.1	-158	-24	0.2
12488_12485	12488	12485	2,534	79	19.2	2,429	66	19.2	-105	-13	0.0
12492_12223	12492	12223	47,748	2,483	1.8	47,303	2,507	1.8	-445	24	0.0
12496_12492	12496	12492	43,608	2,093	4.6	43,152	2,114	4.7	-456	21	0.1
12498_12488	12498	12488	10,774	927	12.8	10,610	912	12.9	-164	-14	0.0
12499_12426	12499	12426	14,830	1,305	8.3	14,701	1,279	8.2	-129	-26	-0.1
12499_12496	12499	12496	459	358	42.5	485	372	42.5	26	14	0.0
12501_12426	12501	12426	565	230	9.1	571	238	9.0	6	8	-0.1
12502_12496	12502	12496	43,123	1,768	53.0	42,636	1,748	53.0	-487	-20	0.0
12506_12499	12506	12499	16,330	1,225	3.5	16,190	1,198	3.5	-140	-27	0.0
12512_12154	12512	12154	4,441	644	21.1	4,488	637	21.1	47	-7	0.0

Road	A node	B node	Without the Proposed Scheme			With the Proposed Scheme			Change in AADT	Change in HDVs	Change in Speed
			AADT	HDVs	Speed (kph) ¹	AADT	HDVs	Speed (kph) ¹			
12512_12506	12512	12506	25,111	1,356	13.2	25,064	1,328	13.1	-47	-28	-0.1
12513_12500	12513	12500	5,289	333	5.2	5,478	323	4.8	189	-10	-0.4
12519_12512	12519	12512	24,315	1,167	19.4	24,352	1,120	19.4	37	-47	0.0
12534_12081	12534	12081	3,674	1,547	10.4	3,699	1,550	10.4	25	3	0.0
12534_12173	12534	12173	0	0	22.6	0	0	22.6	0	0	0.0
12539_12538	12539	12538	2,393	1,546	11.0	2,398	1,549	11.0	5	3	0.0
12543_12539	12543	12539	2,394	1,547	11.2	2,398	1,549	11.1	4	3	0.0
12565_12488	12565	12488	1,593	64	8.2	1,493	46	8.4	-100	-17	0.2
12577_12478	12577	12478	2,054	97	8.6	2,349	89	8.0	295	-7	-0.5
12577_12487	12577	12487	3,594	72	19.4	3,568	71	19.4	-26	-1	0.0
12595_12513	12595	12513	2,701	324	23.3	2,903	325	23.3	202	1	0.0
12595_12575	12595	12575	1,199	72	21.7	1,190	81	21.6	-9	9	-0.1
12598_12416	12598	12416	2,025	130	19.7	2,043	131	19.7	18	1	0.0
12598_12417	12598	12417	7,758	892	28.5	8,078	897	28.4	320	4	0.0
12604_12352	12604	12352	3,570	978	27.4	3,468	975	27.4	-102	-4	0.0
12604_12355	12604	12355	5,185	337	20.0	5,112	322	20.0	-73	-15	0.0
12604_12598	12604	12598	7,758	892	28.3	8,078	897	28.3	320	4	0.0
12633_12341	12633	12341	4,717	175	18.6	4,614	166	18.7	-103	-8	0.0
12633_12356	12633	12356	0	0	25.0	0	0	25.0	0	0	0.0
12633_12538	12633	12538	3,034	133	8.5	3,046	146	8.5	12	13	0.0

Road	A node	B node	Without the Proposed Scheme			With the Proposed Scheme			Change in AADT	Change in HDVs	Change in Speed
			AADT	HDVs	Speed (kph) ¹	AADT	HDVs	Speed (kph) ¹			
12679_12482	12679	12482	4,456	138	8.0	4,510	158	8.8	54	20	0.8
12696_12481	12696	12481	12,688	837	15.0	12,277	896	14.8	-411	59	-0.2
12760_12504	12760	12504	895	39	6.2	917	38	6.2	22	-2	0.0
12760_12519	12760	12519	7,309	570	8.3	7,373	597	8.1	64	27	-0.2
12760_12756	12760	12756	900	24	21.0	894	24	21.0	-6	0	0.0
12765_12543	12765	12543	2,394	1,547	32.0	2,398	1,549	32.0	4	3	0.0
12773_12595	12773	12595	2,352	247	22.2	2,547	247	22.2	195	0	0.0
12781_12338	12781	12338	4,685	169	23.3	4,768	162	23.3	83	-7	0.0
12781_12341	12781	12341	3,897	35	14.5	4,090	37	14.4	193	2	-0.1
12781_12543	12781	12543	851	0	18.6	859	0	18.6	8	0	0.0
12840_12510	12840	12510	3,592	136	10.0	3,620	145	9.9	28	8	-0.1
12847_12344	12847	12344	0	0	14.4	0	0	14.4	0	0	0.0
12847_12633	12847	12633	7,750	310	28.7	7,660	314	28.7	-90	4	0.0
12848_12357	12848	12357	1,733	151	25.2	1,760	151	25.2	27	1	0.0
12867_12160	12867	12160	689	28	23.0	692	29	23.0	3	1	0.0
12867_12226	12867	12226	4,872	141	9.2	5,154	211	8.9	282	70	-0.3
12870_12502	12870	12502	43,123	1,768	57.6	42,636	1,748	57.9	-487	-20	0.3
12902_12226	12902	12226	12,107	2,119	5.1	12,359	2,188	4.8	252	69	-0.3
12903_12224	12903	12224	650	1	5.6	872	1	5.5	222	0	-0.1
12904_12481	12904	12481	7,859	809	27.9	7,177	660	28.0	-682	-149	0.1

Road	A node	B node	Without the Proposed Scheme			With the Proposed Scheme			Change in AADT	Change in HDVs	Change in Speed
			AADT	HDVs	Speed (kph) ¹	AADT	HDVs	Speed (kph) ¹			
12915_12538	12915	12538	1,036	0	12.2	1,051	0	12.2	15	0	0.0
12915_12840	12915	12840	3,034	133	14.7	3,046	146	14.7	12	13	0.0
12916_12512	12916	12512	6,555	1,717	6.2	6,550	1,716	6.2	-5	-1	0.0
13085_12228	13085	12228	41,820	2,593	3.3	43,624	2,748	2.8	1,804	155	-0.6
13085_12476	13085	12476	39,209	2,313	4.0	38,652	2,435	4.0	-557	122	0.0
13105_12223	13105	12223	51,347	2,105	4.2	51,509	2,163	4.2	162	58	-0.1
13105_13070	13105	13070	35,099	1,895	14.7	34,884	1,884	2.1	-215	-12	-12.7
13124_12605	13124	12605	2,250	25	4.0	2,302	25	3.9	52	1	-0.1
13124_12609	13124	12609	2,232	703	9.2	2,157	707	9.2	-75	4	0.0
13186_12223	13186	12223	4,566	174	5.8	4,559	178	5.7	-7	4	0.0
13207_12225	13207	12225	43,472	2,087	7.0	43,878	2,238	7.0	406	151	0.0
13207_12291	13207	12291	43,740	2,756	6.7	43,878	2,896	6.4	138	140	-0.3
13207_12401	13207	12401	5	5	20.8	5	5	20.8	0	0	0.0
13245_12007	13245	12007	5,023	623	28.8	4,905	677	28.7	-118	54	0.0
13245_12376	13245	12376	6,152	695	8.7	6,169	648	8.6	17	-47	-0.1
13245_12379	13245	12379	463	5	20.2	478	6	20.2	15	1	0.0
13270_12381	13270	12381	20,140	1,511	15.3	21,175	1,482	14.0	1,035	-28	-1.3
13273_12337	13273	12337	1,237	0	7.0	1,555	0	7.0	318	0	-0.1
13274_13273	13274	13273	6,537	0	34.4	6,953	0	34.2	416	0	-0.2
13275_12412	13275	12412	5,819	0	10.9	6,435	0	9.9	616	0	-1.0

Road	A node	B node	Without the Proposed Scheme			With the Proposed Scheme			Change in AADT	Change in HDVs	Change in Speed
			AADT	HDVs	Speed (kph) ¹	AADT	HDVs	Speed (kph) ¹			
13275_13272	13275	13272	1,319	0	25.0	2,136	0	25.0	817	0	0.0
13275_13273	13275	13273	2,620	0	24.7	4,028	0	24.7	1,408	0	0.0
13277_12370	13277	12370	6,447	426	8.1	6,006	378	8.3	-441	-47	0.2
13277_12425	13277	12425	997	273	20.7	1,024	273	20.6	27	0	-0.1
13278_12337	13278	12337	12,208	2,039	4.4	12,222	2,163	3.9	14	125	-0.5
13278_12370	13278	12370	650	1	3.3	871	1	3.3	221	0	0.0
13279_12370	13279	12370	8,285	1,591	5.2	8,336	1,642	5.2	51	51	0.0
13279_12867	13279	12867	4,872	141	12.0	5,154	211	11.9	282	70	-0.1
13287_12004	13287	12004	0	0	22.3	0	0	22.4	0	0	0.1
13287_12381	13287	12381	11,923	1,478	26.2	12,661	1,469	25.7	738	-10	-0.5
13287_12389	13287	12389	10,123	1,387	18.8	10,421	1,407	18.6	298	20	-0.2
13288_12399	13288	12399	437	0	24.7	435	0	24.7	-2	0	0.0
13288_13274	13288	13274	6,537	0	23.1	6,951	0	23.1	414	0	0.0
13293_12412	13293	12412	15,183	1,655	26.4	16,921	1,929	26.7	1,738	274	0.3
13333_12291	13333	12291	862	0	5.7	1,981	0	5.4	1,119	0	-0.3
13333_13288	13333	13288	2,143	0	4.7	2,260	0	4.7	117	0	0.0
13335_12223	13335	12223	2,941	18	13.0	3,393	17	12.9	452	-1	-0.1
13335_12426	13335	12426	903	191	10.2	932	191	10.2	29	0	0.0
13337_12055	13337	12055	3,668	631	21.8	3,708	630	21.8	40	-1	0.0
13337_12376	13337	12376	11,652	1,398	7.2	11,873	1,484	7.2	221	86	0.0

Road	A node	B node	Without the Proposed Scheme			With the Proposed Scheme			Change in AADT	Change in HDVs	Change in Speed
			AADT	HDVs	Speed (kph) ¹	AADT	HDVs	Speed (kph) ¹			
13337_13271	13337	13271	13,343	894	8.9	13,461	888	8.9	118	-6	0.0
13338_12008	13338	12008	1,136	18	24.3	1,158	19	24.3	22	0	0.0
13338_12380	13338	12380	8,997	765	17.0	8,947	752	17.0	-50	-13	0.0
13340_12370	13340	12370	11,769	1,659	14.6	11,878	1,924	14.4	109	265	-0.2
13340_12412	13340	12412	11,954	1,279	29.8	11,412	1,324	29.2	-542	45	-0.6
13352_12492	13352	12492	7,019	667	2.2	7,006	659	2.2	-13	-8	0.0
13352_12504	13352	12504	5,819	512	5.3	5,869	540	5.3	50	28	0.0
13353_13105	13353	13105	1,441	143	4.6	1,441	131	4.7	0	-12	0.0
13354_13353	13354	13353	4,812	159	18.0	4,718	146	17.9	-94	-13	-0.1
13355_13354	13355	13354	4,812	159	20.5	4,718	146	20.6	-94	-13	0.0
13356_12486	13356	12486	0	0	7.2	0	0	7.2	0	0	0.0
13356_12513	13356	12513	1,958	206	15.3	2,083	206	15.2	125	1	-0.1
13356_13355	13356	13355	6,211	279	18.3	6,069	267	18.2	-142	-12	-0.1
13357_12486	13357	12486	35,326	2,014	11.1	35,032	2,032	11.1	-294	18	0.1
13357_13070	13357	13070	45,503	1,911	19.4	45,463	2,000	10.2	-40	89	-9.2
13358_12679	13358	12679	1,083	268	8.7	962	259	8.7	-121	-9	-0.1
13358_13085	13358	13085	0	0	14.5	0	0	14.5	0	0	0.0
13387_12159	13387	12159	2,615	73	24.6	4,101	74	24.6	1,486	1	0.0
13387_13272	13387	13272	672	0	37.0	1,292	0	37.0	620	0	0.0
13390_12193	13390	12193	11,176	458	24.3	8,325	433	25.7	-2,851	-25	1.4

Road	A node	B node	Without the Proposed Scheme			With the Proposed Scheme			Change in AADT	Change in HDVs	Change in Speed
			AADT	HDVs	Speed (kph) ¹	AADT	HDVs	Speed (kph) ¹			
13391_12228	13391	12228	0	0	8.2	0	0	8.2	0	0	0.0
13391_13288	13391	13288	3,983	0	16.6	4,903	0	16.2	920	0	-0.3
13431_12534	13431	12534	3,679	1,549	25.4	3,699	1,550	25.4	20	1	0.0
13431_12538	13431	12538	7,022	1,538	11.6	7,099	1,540	11.5	77	3	-0.1
13431_12840	13431	12840	588	0	24.1	589	0	24.1	1	0	0.0
13478_12500	13478	12500	2,412	7	1.0	2,470	5	1.0	58	-2	0.0
13478_12902	13478	12902	12,108	2,119	33.0	12,360	2,188	33.0	252	69	0.0
13480_12493	13480	12493	8,209	1,658	5.9	8,502	1,726	5.6	293	68	-0.4
13480_12903	13480	12903	650	1	31.9	872	1	31.9	222	0	0.0
13480_13478	13480	13478	2,430	275	7.7	2,456	312	7.6	26	37	-0.1
13481_12401	13481	12401	10,953	460	25.4	11,536	473	25.2	583	13	-0.2
13481_12491	13481	12491	3,617	340	29.5	3,568	335	29.5	-49	-5	0.0
13482_13390	13482	13390	11,176	458	38.0	8,325	433	38.0	-2,851	-25	0.0
13483_13270	13483	13270	26,598	1,729	16.7	25,819	1,704	18.6	-779	-25	2.0
13483_13293	13483	13293	15,183	1,655	40.0	16,921	1,929	40.0	1,738	274	0.0
13992_12511	13992	12511	3,654	33	13.1	4,067	37	12.9	413	4	-0.2
13992_13186	13992	13186	4,567	174	25.0	4,561	178	25.0	-6	4	0.0
13992_13352	13992	13352	1,833	27	19.0	1,803	29	19.0	-30	1	-0.1
13992_13353	13992	13353	1,396	3	22.9	1,516	5	22.9	120	2	0.0
14004_12228	14004	12228	38,985	2,339	10.9	38,704	2,438	10.8	-281	99	-0.1

Road	A node	B node	Without the Proposed Scheme			With the Proposed Scheme			Change in AADT	Change in HDVs	Change in Speed
			AADT	HDVs	Speed (kph) ¹	AADT	HDVs	Speed (kph) ¹			
14004_12480	14004	12480	7,516	38	32.2	7,987	56	32.2	471	18	-0.1
14073_14065	14073	14065	11,553	878	34.0	12,099	932	34.0	546	54	0.0
14116_14114	14116	14114	1,093	43	25.0	1,091	43	25.0	-2	0	0.0
14117_14116	14117	14116	640	18	16.3	603	17	16.3	-37	-1	0.0
14144_14142	14144	14142	544	32	9.9	573	32	9.9	29	0	0.0
14211_14136	14211	14136	11,027	232	7.0	9,989	260	23.7	-1,038	28	16.7
14212_14129	14212	14129	7,489	944	27.7	8,057	983	23.6	568	39	-4.1
14219_14211	14219	14211	4,532	0	15.8	6,997	0	15.4	2,465	0	-0.4
14221_14130	14221	14130	8,223	1,669	10.7	8,449	1,681	10.6	226	12	-0.1
14222_14138	14222	14138	5,906	791	12.3	5,644	694	12.4	-262	-97	0.1
14222_14142	14222	14142	406	32	5.8	646	28	5.3	240	-4	-0.5
14235_12399	14235	12399	341	0	22.9	332	0	22.9	-9	0	0.0
14235_14219	14235	14219	2,338	0	23.0	3,981	0	22.9	1,643	0	-0.1
14253_14129	14253	14129	13,880	750	32.4	15,117	741	32.1	1,237	-9	-0.4
14284_12904	14284	12904	7,225	766	11.3	6,539	615	10.4	-686	-151	-0.8
14288_12417	14288	12417	9,464	1,439	29.3	9,397	1,419	29.3	-67	-20	0.0
14288_12422	14288	12422	3,500	1,327	20.7	3,559	1,335	20.7	59	8	0.0
14288_13124	14288	13124	4,596	726	30.3	4,559	729	30.3	-37	3	0.0
14293_14109	14293	14109	37,067	4,411	11.7	37,004	4,440	11.6	-63	30	-0.1
14294_14069	14294	14069	33,685	2,762	5.1	33,376	2,804	5.2	-309	41	0.1

Road	A node	B node	Without the Proposed Scheme			With the Proposed Scheme			Change in AADT	Change in HDVs	Change in Speed
			AADT	HDVs	Speed (kph) ¹	AADT	HDVs	Speed (kph) ¹			
14294_14070	14294	14070	38,663	3,557	5.1	38,228	3,555	5.3	-435	-2	0.1
14295_14293	14295	14293	25,172	2,190	4.2	25,158	2,189	4.2	-14	-1	0.0
14296_14099	14296	14099	6,254	356	2.7	6,618	384	2.4	364	27	-0.2
14297_14069	14297	14069	1,117	56	4.7	1,081	51	4.8	-36	-5	0.0
14299_14069	14299	14069	33,867	2,743	4.2	33,067	2,745	4.2	-800	1	0.0
14300_14295	14300	14295	6,463	1,215	5.1	6,536	1,222	5.1	73	7	0.0
14301_14099	14301	14099	2,862	441	10.9	3,032	452	10.4	170	11	-0.5
14303_14067	14303	14067	34,425	2,306	1.0	34,398	2,373	1.0	-27	67	0.0
14303_14301	14303	14301	36,289	2,032	1.4	35,927	2,120	1.3	-362	88	-0.1
14306_14305	14306	14305	3,343	1,367	21.4	4,135	1,373	21.4	792	6	0.0
14308_14065	14308	14065	7,798	1,068	27.0	8,406	1,194	27.0	608	125	0.0
14312_14308	14312	14308	9,531	1,735	3.1	9,407	1,834	3.1	-124	100	0.0
14313_14305	14313	14305	33,768	1,520	31.1	34,374	1,650	30.9	606	130	-0.2
14314_14283	14314	14283	8,698	496	6.1	7,821	454	6.3	-877	-42	0.2
14315_14283	14315	14283	49,197	2,361	2.3	50,533	2,476	2.2	1,336	115	-0.1
14316_14310	14316	14310	1,333	271	21.1	1,356	289	21.1	23	18	0.0
14318_14311	14318	14311	5,518	99	13.6	5,523	99	13.7	5	0	0.1
14320_14292	14320	14292	6,116	141	22.8	5,928	154	22.8	-188	13	0.0
14321_14318	14321	14318	8,046	145	24.0	7,954	143	24.0	-92	-2	0.0
14322_14321	14322	14321	2,539	0	29.3	2,563	0	29.3	24	0	0.0

Road	A node	B node	Without the Proposed Scheme			With the Proposed Scheme			Change in AADT	Change in HDVs	Change in Speed
			AADT	HDVs	Speed (kph) ¹	AADT	HDVs	Speed (kph) ¹			
14323_14319	14323	14319	1,598	1,552	4.5	1,597	1,552	4.5	-1	1	0.0
14324_14309	14324	14309	17,383	1,825	2.4	17,381	1,842	2.4	-2	17	0.0
14325_14316	14325	14316	1,333	271	12.5	1,356	289	12.5	23	18	0.0
14326_14324	14326	14324	7,089	744	5.3	7,202	742	5.2	113	-3	-0.1
14329_14323	14329	14323	1,598	1,552	6.6	1,597	1,552	6.6	-1	1	0.0
14333_14329	14333	14329	9,165	2,117	24.9	9,318	2,115	24.8	153	-2	0.0
14334_14325	14334	14325	2,831	433	1.4	2,874	448	1.4	43	15	0.0
14336_14280	14336	14280	2,106	137	25.6	2,027	89	25.4	-79	-48	-0.2
14336_14335	14336	14335	5,876	729	24.1	5,749	736	24.1	-127	7	0.0
14338_14334	14338	14334	2,806	432	8.0	2,849	447	8.0	43	15	0.0
14340_14281	14340	14281	6,809	279	21.9	6,758	284	21.9	-51	5	0.0
14343_14292	14343	14292	8,176	319	22.2	7,999	312	22.2	-177	-7	0.0
14343_14309	14343	14309	3,639	66	6.5	3,628	65	6.5	-11	0	-0.1
14343_14326	14343	14326	5,140	164	18.8	4,983	120	18.9	-157	-45	0.1
14344_14340	14344	14340	19,939	2,572	13.6	19,759	2,628	13.7	-180	56	0.0
14353_14344	14353	14344	11,810	1,901	9.4	11,707	1,943	9.4	-103	42	0.0
14358_12358	14358	12358	5,542	1,530	30.8	5,602	1,524	30.7	60	-6	0.0
14363_14302	14363	14302	5,991	869	17.0	6,026	874	17.0	35	5	0.0
14364_14297	14364	14297	1,246	66	30.4	1,301	62	30.3	55	-4	0.0
14364_14304	14364	14304	3,584	125	11.1	3,389	125	11.3	-195	0	0.2

Road	A node	B node	Without the Proposed Scheme			With the Proposed Scheme			Change in AADT	Change in HDVs	Change in Speed
			AADT	HDVs	Speed (kph) ¹	AADT	HDVs	Speed (kph) ¹			
14365_14282	14365	14282	7,994	576	10.6	7,890	615	10.7	-104	40	0.2
14365_14336	14365	14336	1,975	245	13.8	1,921	231	13.8	-54	-14	0.0
14368_14304	14368	14304	1,899	99	10.2	1,949	99	10.3	50	1	0.1
14369_14319	14369	14319	5,890	683	8.6	5,868	804	8.6	-22	121	0.0
14370_14333	14370	14333	5,515	419	11.2	5,622	416	11.1	107	-3	-0.1
14371_14290	14371	14290	7,068	269	6.1	7,135	271	5.8	67	3	-0.3
14371_14291	14371	14291	5,467	323	14.5	5,598	325	14.4	131	2	-0.1
14372_14335	14372	14335	4,241	98	15.8	4,245	98	15.8	4	0	0.0
14373_14326	14373	14326	9,999	930	24.4	9,875	938	24.4	-124	8	0.0
14373_14335	14373	14335	3,774	166	28.0	3,554	121	28.0	-220	-45	0.0
14378_14347	14378	14347	2,243	103	2.9	2,246	103	2.9	3	0	0.0
14381_14288	14381	14288	7,840	1,207	10.9	7,769	1,212	10.9	-71	5	0.0
14382_14280	14382	14280	2,769	78	20.0	2,771	80	20.0	2	3	0.0
14382_14281	14382	14281	609	72	21.5	621	72	21.5	12	0	0.0
14382_14282	14382	14282	4,659	294	18.9	4,563	292	19.0	-96	-1	0.0
14388_14004	14388	14004	44,565	2,362	7.9	44,777	2,463	7.9	212	101	0.0
14388_14112	14388	14112	13,007	598	31.0	12,300	603	30.9	-707	4	0.0
14388_14283	14388	14283	40,289	2,659	3.7	40,919	2,742	3.6	630	82	-0.1
14393_14067	14393	14067	37,125	2,896	2.9	38,495	3,041	2.5	1,370	145	-0.5
14393_14305	14393	14305	38,931	2,531	24.3	39,911	2,594	24.1	980	64	-0.1

Road	A node	B node	Without the Proposed Scheme			With the Proposed Scheme			Change in AADT	Change in HDVs	Change in Speed
			AADT	HDVs	Speed (kph) ¹	AADT	HDVs	Speed (kph) ¹			
14418_14070	14418	14070	29,774	3,007	7.2	29,565	3,045	7.1	-209	38	0.0
14418_14109	14418	14109	38,222	3,516	10.9	37,887	3,523	11.3	-335	7	0.4
14436_14342	14436	14342	17,697	2,761	1.9	17,750	2,769	1.9	53	8	0.0
14436_14344	14436	14344	171	170	4.4	171	170	4.4	0	0	0.0
14437_14337	14437	14337	13,744	1,443	4.0	13,811	1,450	4.0	67	7	0.0
14438_14055	14438	14055	19,258	2,735	26.1	19,211	2,747	26.1	-47	13	0.0
14448_14281	14448	14281	990	0	19.0	973	0	19.0	-17	0	0.0
14448_14344	14448	14344	20,952	2,368	5.5	21,050	2,400	5.4	98	32	0.0
14449_14347	14449	14347	19,899	2,268	12.7	19,973	2,317	12.6	74	48	0.0
14450_14347	14450	14347	171	170	9.2	171	170	9.2	0	0	0.0
14450_14448	14450	14448	22,143	2,369	23.7	22,221	2,400	23.7	78	31	0.0
14451_14449	14451	14449	8,236	1,540	28.8	8,383	1,534	28.7	147	-6	0.0
14491_14324	14491	14324	10,199	877	1.4	10,112	900	1.4	-87	23	0.0
14491_14327	14491	14327	12,629	2,804	8.5	12,468	2,818	8.5	-161	14	0.0
14493_14327	14493	14327	1,928	603	4.0	2,000	612	4.0	72	9	0.0
14505_14293	14505	14293	11,886	2,116	0.8	11,832	2,153	0.8	-54	38	0.0
14522_12413	14522	12413	720	699	32.0	719	697	32.0	-1	-2	0.0
14525_14099	14525	14099	2,779	386	4.7	3,104	400	3.9	325	14	-0.8
14526_14301	14526	14301	34,653	2,322	5.6	34,621	2,389	5.5	-32	67	-0.2
14526_14521	14526	14521	32,176	2,960	25.6	31,713	2,949	25.6	-463	-11	0.0

Road	A node	B node	Without the Proposed Scheme			With the Proposed Scheme			Change in AADT	Change in HDVs	Change in Speed
			AADT	HDVs	Speed (kph) ¹	AADT	HDVs	Speed (kph) ¹			
14526_14525	14526	14525	2,779	386	32.0	3,104	400	32.0	325	14	0.0
14527_14067	14527	14067	6,261	225	2.0	5,804	168	2.3	-457	-57	0.4
14527_14320	14527	14320	1,681	37	21.3	1,146	26	21.1	-535	-11	-0.2
14528_14343	14528	14343	3,515	134	10.4	3,463	69	10.8	-52	-64	0.4
14529_14321	14529	14321	5,530	122	17.0	5,422	125	17.0	-108	3	0.0
14531_14308	14531	14308	8,040	1,190	9.2	9,228	1,163	8.9	1,188	-27	-0.3
14532_14334	14532	14334	6,591	501	2.9	6,719	504	2.6	128	3	-0.2
14533_14289	14533	14289	2,452	51	18.8	2,215	62	18.8	-237	11	0.0
14543_14301	14543	14301	8,819	1,596	1.0	9,413	1,600	0.9	594	4	0.0
14543_14309	14543	14309	12,241	1,885	2.0	11,858	1,909	2.1	-383	24	0.1
14544_14304	14544	14304	1,548	73	12.0	1,524	72	12.0	-24	-1	0.0
14544_14309	14544	14309	3,858	239	10.0	3,818	248	10.0	-40	9	0.0
14545_14317	14545	14317	4,426	115	24.5	4,379	123	24.5	-47	8	0.0
14547_14381	14547	14381	7,840	1,207	32.0	7,769	1,212	32.0	-71	5	0.0
14548_14333	14548	14333	1,607	1,588	1.5	1,607	1,588	1.5	0	0	0.0
14548_14532	14548	14532	6,591	501	25.0	6,719	504	25.0	128	3	0.0
14549_14284	14549	14284	10,943	788	17.6	10,647	660	19.0	-296	-128	1.4
14550_14315	14550	14315	0	0	9.9	0	0	9.7	0	0	-0.2
14550_14533	14550	14533	2,452	51	25.0	2,215	62	25.0	-237	11	0.0
14551_14306	14551	14306	3,450	1,432	22.4	2,682	1,309	22.5	-768	-123	0.0

Road	A node	B node	Without the Proposed Scheme			With the Proposed Scheme			Change in AADT	Change in HDVs	Change in Speed
			AADT	HDVs	Speed (kph) ¹	AADT	HDVs	Speed (kph) ¹			
14552_14307	14552	14307	7,530	708	16.3	8,859	744	15.8	1,329	36	-0.5
14552_14312	14552	14312	2,511	1,175	1.8	2,482	1,174	1.8	-29	-1	0.0
14553_14312	14553	14312	8,971	2,171	0.6	8,858	2,285	0.5	-113	114	0.0
14553_14319	14553	14319	1,038	998	1.2	1,039	996	1.2	1	-1	0.0
14565_14313	14565	14313	41,749	2,714	42.1	43,593	2,834	41.9	1,844	120	-0.1
14565_14315	14565	14315	49,197	2,361	17.5	50,532	2,476	16.9	1,335	115	-0.6
14571_14099	14571	14099	1,441	1,386	4.3	1,437	1,380	4.3	-4	-7	0.0
14571_14303	14571	14303	372	372	4.9	372	372	4.9	0	0	0.0
14572_14320	14572	14320	8,142	391	23.1	9,125	402	23.0	983	11	-0.1
14572_14325	14572	14325	3,779	265	2.3	3,826	268	2.2	47	3	-0.1
14573_14341	14573	14341	0	0	6.8	0	0	6.7	0	0	-0.1
14573_14372	14573	14372	4,241	98	30.0	4,245	98	30.0	4	0	0.0
14574_14528	14574	14528	5,182	285	24.6	5,321	372	24.6	139	87	-0.1
14580_14280	14580	14280	3,214	730	24.7	3,158	745	24.7	-56	16	0.0
14580_14340	14580	14340	18,950	2,786	20.5	18,597	2,734	20.6	-353	-52	0.1
14580_14493	14580	14493	1,927	603	31.0	2,000	612	31.0	73	9	0.0
14608_14070	14608	14070	3,072	34	5.8	3,131	34	5.8	59	1	0.0
14609_14296	14609	14296	6,232	349	25.9	6,582	362	25.9	350	13	0.0
14612_14300	14612	14300	203	3	21.0	206	3	21.0	3	0	0.0
14614_14236	14614	14236	4,995	250	12.7	0	0	13.7	-4,995	-250	1.0

Road	A node	B node	Without the Proposed Scheme			With the Proposed Scheme			Change in AADT	Change in HDVs	Change in Speed
			AADT	HDVs	Speed (kph) ¹	AADT	HDVs	Speed (kph) ¹			
14614_14250	14614	14250	11,951	621	14.9	9,113	383	17.8	-2,838	-239	2.9
14615_14612	14615	14612	1,787	200	17.3	1,788	200	17.3	1	0	0.0
14616_14295	14616	14295	0	0	6.2	0	0	6.2	0	0	0.0
14617_14294	14617	14294	1,628	2	13.2	1,627	2	13.4	-1	0	0.1
14618_14616	14618	14616	1,628	2	23.3	1,627	2	23.3	-1	0	0.0
14619_14618	14619	14618	1,628	2	17.3	1,627	2	17.3	-1	0	0.0
14621_14300	14621	14300	2,979	679	24.8	3,064	692	24.8	85	13	0.0
14621_14302	14621	14302	2,926	714	9.9	2,914	714	9.9	-12	0	0.0
14622_14612	14622	14612	792	57	24.3	774	57	24.3	-18	0	0.0
14622_14621	14622	14621	1,922	211	18.3	1,914	214	18.3	-8	3	0.0
14623_14302	14623	14302	1,927	83	8.4	1,882	81	8.5	-45	-2	0.1
14623_14304	14623	14304	3,335	263	16.4	3,283	266	16.4	-52	2	0.0
14623_14622	14623	14622	1,129	70	18.1	1,106	74	18.1	-23	4	0.0
14624_14295	14624	14295	17,444	715	9.3	17,337	711	9.3	-107	-4	0.0
14625_14300	14625	14300	3,984	841	19.8	3,986	837	19.8	2	-4	0.0
14625_14624	14625	14624	0	0	12.6	0	0	12.6	0	0	0.0
14627_14250	14627	14250	11,868	427	25.3	7,521	376	19.1	-4,347	-51	-6.2
14628_14253	14628	14253	1,179	851	15.9	1,746	843	15.5	567	-8	-0.4
14648_14211	14648	14211	5,773	231	20.4	2,400	257	21.4	-3,373	26	1.0
14650_14136	14650	14136	5,477	444	4.4	4,062	110	16.8	-1,415	-334	12.4

Road	A node	B node	Without the Proposed Scheme			With the Proposed Scheme			Change in AADT	Change in HDVs	Change in Speed
			AADT	HDVs	Speed (kph) ¹	AADT	HDVs	Speed (kph) ¹			
14650_14137	14650	14137	7,993	312	7.5	9,990	260	7.3	1,997	-52	-0.2
14651_14132	14651	14132	7,465	209	12.6	7,922	206	12.3	457	-3	-0.2
14652_14651	14652	14651	0	0	9.3	0	0	9.3	0	0	0.0
14654_14212	14654	14212	1,688	10	12.8	1,167	9	5.9	-521	-1	-6.9
14656_14113	14656	14113	5,786	226	32.0	2,724	117	32.0	-3,062	-109	0.0
14656_14648	14656	14648	5,772	231	32.0	2,417	273	14.1	-3,355	42	-17.9
14674_14673	14674	14673	0	0	14.7	0	0	14.7	0	0	0.0
14679_14131	14679	14131	10,380	841	23.0	8,388	872	23.2	-1,992	32	0.2
14680_14129	14680	14129	0	0	0.0	0	0	0.0	0	0	0.0
14680_14628	14680	14628	1,179	851	22.0	1,746	843	22.0	567	-8	0.0
14692_14544	14692	14544	559	95	10.5	567	105	10.5	8	10	0.0
14692_14673	14692	14673	0	0	23.8	0	0	23.8	0	0	0.0
14695_14691	14695	14691	940	1	21.6	929	1	22.0	-11	0	0.4
14695_14693	14695	14693	16	8	13.4	21	7	13.4	5	-1	0.0
14696_14679	14696	14679	10,380	841	19.4	8,388	872	19.9	-1,992	32	0.5
14697_14691	14697	14691	692	8	23.7	839	8	23.6	147	0	-0.1
14697_14696	14697	14696	2,742	14	16.8	534	12	17.1	-2,208	-2	0.3
14698_14221	14698	14221	9,577	1,619	20.3	9,333	1,633	20.3	-244	15	0.0
14698_14651	14698	14651	1,960	82	6.5	1,787	120	6.9	-173	37	0.4
14699_14138	14699	14138	11,448	1,511	7.1	11,983	1,510	7.0	535	-1	0.0

Road	A node	B node	Without the Proposed Scheme			With the Proposed Scheme			Change in AADT	Change in HDVs	Change in Speed
			AADT	HDVs	Speed (kph) ¹	AADT	HDVs	Speed (kph) ¹			
14699_14698	14699	14698	4,807	72	17.3	3,079	102	17.2	-1,728	30	0.0
14700_14222	14700	14222	11,062	2,400	25.7	12,244	2,302	25.7	1,182	-99	0.0
14701_14073	14701	14073	11,166	871	3.9	12,737	917	3.7	1,571	46	-0.2
14701_14115	14701	14115	8,586	919	15.6	8,141	1,001	19.5	-445	83	4.0
14701_14655	14701	14655	1,949	27	15.7	1,487	27	9.7	-462	-1	-6.0
14704_14117	14704	14117	640	18	18.8	603	17	18.8	-37	-1	0.0
14704_14251	14704	14251	7,412	400	6.9	7,748	380	6.6	336	-21	-0.3
14705_14692	14705	14692	795	85	14.8	795	85	14.8	0	0	0.0
14707_14488	14707	14488	1,843	144	14.7	1,826	142	14.8	-17	-1	0.0
14707_14706	14707	14706	1,147	11	25.0	1,149	11	25.0	2	0	0.0
14708_14545	14708	14545	3,471	31	22.9	3,417	34	22.9	-54	3	0.0
14708_14707	14708	14707	376	110	22.5	346	110	22.5	-30	0	0.0
14709_14299	14709	14299	0	0	12.3	0	0	12.3	0	0	0.0
14711_14545	14711	14545	768	77	28.4	780	82	28.4	12	5	0.0
14712_14327	14712	14327	6,286	214	15.4	6,182	223	15.5	-104	9	0.1
14713_14711	14713	14711	0	0	13.3	0	0	13.3	0	0	0.0
14713_14712	14713	14712	329	32	12.5	233	32	12.5	-96	0	0.0
14714_14069	14714	14069	8,084	728	1.5	8,216	731	1.4	132	4	0.0
14714_14087	14714	14087	2,156	39	15.7	1,933	37	15.7	-223	-2	0.0
14714_14604	14714	14604	6,293	283	41.0	6,372	287	41.0	79	4	0.0

Road	A node	B node	Without the Proposed Scheme			With the Proposed Scheme			Change in AADT	Change in HDVs	Change in Speed
			AADT	HDVs	Speed (kph) ¹	AADT	HDVs	Speed (kph) ¹			
14715_14322	14715	14322	2,568	0	16.5	2,590	0	16.5	22	0	0.0
14715_14713	14715	14713	298	0	21.6	202	0	21.6	-96	0	0.0
14716_14132	14716	14132	8,841	203	13.5	9,095	209	13.4	254	6	-0.1
14720_14318	14720	14318	4,117	136	21.8	4,151	133	21.8	34	-3	0.0
14720_14719	14720	14719	7,351	213	23.0	7,341	213	23.0	-10	0	0.0
14721_14118	14721	14118	4	0	18.6	5	2	18.6	1	2	0.0
14721_14609	14721	14609	6,231	349	25.3	6,582	362	25.2	351	13	0.0
14722_14112	14722	14112	6,944	271	20.0	5,422	190	20.5	-1,522	-81	0.4
14722_14113	14722	14113	7,822	235	32.0	4,364	271	32.0	-3,458	36	0.0
14724_14115	14724	14115	815	54	5.7	0	0	5.3	-815	-54	-0.4
14725_14723	14725	14723	2,438	51	24.3	0	0	24.4	-2,438	-51	0.0
14725_14724	14725	14724	815	54	25.0	0	0	25.0	-815	-54	0.0
14726_13391	14726	13391	337	0	24.2	864	0	24.2	527	0	0.0
14726_14004	14726	14004	4,150	66	6.4	4,537	68	5.6	387	2	-0.8
14726_14235	14726	14235	2,974	0	24.6	4,621	0	24.5	1,647	0	0.0
14729_14720	14729	14720	3,162	101	22.3	3,214	103	22.3	52	2	0.0
14731_14055	14731	14055	0	0	19.8	0	0	19.8	0	0	0.0
14736_12193	14736	12193	12,806	512	38.8	12,502	463	39.1	-304	-50	0.3
14736_13387	14736	13387	1,468	72	19.4	2,251	72	19.1	783	0	-0.3
14736_14613	14736	14613	3,524	137	25.0	2,954	68	25.2	-570	-69	0.1

Road	A node	B node	Without the Proposed Scheme			With the Proposed Scheme			Change in AADT	Change in HDVs	Change in Speed
			AADT	HDVs	Speed (kph) ¹	AADT	HDVs	Speed (kph) ¹			
14736_14627	14736	14627	11,868	427	38.0	7,521	376	38.0	-4,347	-51	0.0
14737_12159	14737	12159	1,539	0	23.1	2,560	0	23.5	1,021	0	0.5
14737_14219	14737	14219	2,612	47	24.3	3,966	48	24.2	1,354	1	-0.1
14744_14118	14744	14118	2,091	270	19.1	2,197	268	19.1	106	-2	0.0
14746_14316	14746	14316	1,022	27	2.2	1,029	27	2.2	7	0	0.0
14746_14369	14746	14369	1,443	242	17.1	1,562	258	17.1	119	15	0.0
14746_14370	14746	14370	0	0	20.9	0	0	20.9	0	0	0.0
14748_14292	14748	14292	1,521	56	20.9	1,647	66	21.0	126	10	0.0
14748_14527	14748	14527	3,461	97	13.9	3,144	110	14.2	-317	13	0.3
14748_14528	14748	14528	3,048	64	15.3	2,912	20	15.3	-136	-44	0.0
14751_14371	14751	14371	3,139	78	17.7	3,198	80	17.7	59	1	-0.1
14752_14751	14752	14751	78	0	16.8	93	0	16.8	15	0	0.0
14753_14654	14753	14654	1,853	41	24.4	1,415	23	24.5	-438	-18	0.1
14753_14690	14753	14690	442	152	21.9	683	76	22.4	241	-76	0.5
14754_14753	14754	14753	0	0	18.3	0	0	18.3	0	0	0.0
14755_14654	14755	14654	92	86	26.3	19	15	26.3	-73	-71	0.0
14755_14655	14755	14655	1,340	40	12.9	923	19	5.5	-417	-21	-7.4
14755_14754	14755	14754	1,256	35	13.0	725	62	12.6	-531	27	-0.4
14756_14115	14756	14115	13,583	761	14.6	13,132	801	12.5	-451	40	-2.0
14756_14755	14756	14755	650	26	17.0	664	58	10.4	14	32	-6.6

Road	A node	B node	Without the Proposed Scheme			With the Proposed Scheme			Change in AADT	Change in HDVs	Change in Speed
			AADT	HDVs	Speed (kph) ¹	AADT	HDVs	Speed (kph) ¹			
14759_14758	14759	14758	209	3	19.3	1,377	29	19.3	1,168	26	0.0
14760_14137	14760	14137	10,360	1,285	6.2	10,080	1,048	4.7	-280	-236	-1.6
14761_14691	14761	14691	2,719	14	18.2	481	11	18.4	-2,238	-3	0.2
14761_14758	14761	14758	0	0	17.7	0	0	17.7	0	0	0.0
14762_14690	14762	14690	1,352	18	17.7	1,720	34	17.8	368	17	0.2
14762_14760	14762	14760	2,386	489	21.2	2,078	378	21.3	-308	-111	0.1
14762_14761	14762	14761	3,144	22	16.7	303	4	16.8	-2,841	-18	0.1
14763_14761	14763	14761	0	0	16.9	0	0	16.8	0	0	-0.1
14764_14762	14764	14762	1,787	327	19.1	1,648	311	19.1	-139	-16	0.0
14765_14763	14765	14763	0	0	20.0	0	0	20.0	0	0	0.0
14765_14764	14765	14764	1,454	87	15.0	1,304	61	15.0	-150	-26	0.1
14766_14764	14766	14764	335	238	19.2	347	247	19.2	12	9	0.0
14767_14697	14767	14697	6	0	24.4	6	0	24.4	0	0	0.0
14767_14765	14767	14765	908	73	26.3	878	47	26.3	-30	-25	0.0
14768_14299	14768	14299	33,988	2,753	17.8	33,260	2,761	17.8	-728	8	0.0
14768_14521	14768	14521	37,510	2,813	19.2	37,297	2,835	19.4	-213	21	0.3
14769_14521	14769	14521	2,593	104	6.0	2,679	118	5.8	86	14	-0.1
14769_14709	14769	14709	1,214	132	15.5	1,343	99	15.5	129	-33	0.0
14769_14744	14769	14744	2,081	268	1.9	2,173	269	1.6	92	1	-0.3
14770_14752	14770	14752	78	0	25.0	93	0	25.0	15	0	0.0

Road	A node	B node	Without the Proposed Scheme			With the Proposed Scheme			Change in AADT	Change in HDVs	Change in Speed
			AADT	HDVs	Speed (kph) ¹	AADT	HDVs	Speed (kph) ¹			
14771_14323	14771	14323	5,494	379	8.3	5,577	402	8.3	83	22	-0.1
14772_14371	14772	14371	5,549	422	21.9	5,655	418	21.9	106	-3	0.0
14775_14129	14775	14129	186	0	17.2	579	0	17.0	393	0	-0.3
14775_14766	14775	14766	335	238	20.0	347	247	20.0	12	9	0.0
14775_14767	14775	14767	1,475	1	22.9	1,594	2	22.9	119	0	0.0
14796_14368	14796	14368	1,899	99	28.0	1,949	99	28.0	50	1	0.0
14797_14317	14797	14317	1,452	57	16.8	1,395	52	17.3	-57	-5	0.5
14797_14529	14797	14529	5,530	122	25.0	5,422	125	25.0	-108	3	0.0
14804_14297	14804	14297	313	29	20.0	334	29	20.1	21	0	0.1
14804_14692	14804	14692	554	74	21.8	558	83	21.8	4	9	0.0
14804_14768	14804	14768	134	29	5.4	223	29	5.4	89	0	0.0
14830_14550	14830	14550	554	17	15.0	648	17	15.0	94	0	0.0
14902_14130	14902	14130	299	264	17.1	288	263	17.1	-11	-1	0.0
14902_14251	14902	14251	3,322	502	2.7	3,175	537	2.7	-147	35	0.0
14903_14709	14903	14709	506	13	14.0	567	22	13.9	61	9	-0.1
14904_14116	14904	14116	454	25	19.5	488	25	19.5	34	0	0.0
14904_14744	14904	14744	99	20	22.3	63	19	22.4	-36	-1	0.1
14904_14903	14904	14903	506	13	20.0	567	22	20.0	61	9	0.0
14905_14117	14905	14117	0	0	17.7	0	0	17.7	0	0	0.0
14905_14118	14905	14118	0	0	15.8	0	0	15.7	0	0	0.0

Road	A node	B node	Without the Proposed Scheme			With the Proposed Scheme			Change in AADT	Change in HDVs	Change in Speed
			AADT	HDVs	Speed (kph) ¹	AADT	HDVs	Speed (kph) ¹			
14905_14904	14905	14904	52	11	19.0	63	18	19.1	11	7	0.0
14906_14721	14906	14721	6,949	327	29.0	6,851	343	29.0	-98	16	0.0
14906_14905	14906	14905	15	10	18.8	26	18	18.8	11	8	0.0
14907_14251	14907	14251	11,256	101	14.3	11,658	93	14.2	402	-8	0.0
14908_14307	14908	14307	1,161	109	6.6	1,145	109	6.6	-16	0	0.0
14908_14310	14908	14310	10,820	498	16.3	11,550	612	16.5	730	114	0.3
14909_14754	14909	14754	1,118	0	20.8	1,408	0	4.5	290	0	-16.3
14910_14909	14910	14909	1,117	0	25.0	1,408	0	25.0	291	0	0.0
14911_14655	14911	14655	315	0	14.5	0	0	9.2	-315	0	-5.4
14911_14656	14911	14656	971	2	7.6	527	3	8.1	-444	1	0.5
14911_14910	14911	14910	1,117	0	25.0	1,408	0	25.0	291	0	0.0
14912_14132	14912	14132	6,388	268	3.2	6,192	254	3.3	-196	-14	0.1
14912_14221	14912	14221	4,584	170	28.8	4,698	169	28.7	114	0	0.0
14912_14902	14912	14902	2,587	147	25.5	2,455	172	25.5	-132	24	0.0
14952_14704	14952	14704	6,572	375	30.0	6,927	360	30.0	355	-14	0.0
14952_14906	14952	14906	6,962	327	26.5	6,877	351	26.5	-85	24	0.0
14953_14952	14953	14952	58	15	14.5	43	12	14.3	-15	-3	-0.2
14954_14136	14954	14136	8,591	404	2.5	0	0	1.6	-8,591	-404	-0.9
14954_14236	14954	14236	5,359	456	24.8	0	0	27.2	-5,359	-456	2.4
14965_14212	14965	14212	7,039	950	7.4	7,332	1,012	14.3	293	62	6.8

Road	A node	B node	Without the Proposed Scheme			With the Proposed Scheme			Change in AADT	Change in HDVs	Change in Speed
			AADT	HDVs	Speed (kph) ¹	AADT	HDVs	Speed (kph) ¹			
14965_14756	14965	14756	13,583	761	27.8	13,122	787	22.4	-461	27	-5.4
14971_14067	14971	14067	7,238	181	2.3	5,733	6	2.5	-1,505	-175	0.2
14972_14701	14972	14701	0	0	12.7	0	0	12.2	0	0	-0.5
15060_14342	15060	14342	171	170	5.2	171	170	5.2	0	0	0.0
15060_14437	15060	14437	13,749	1,444	30.6	13,817	1,437	30.6	68	-7	0.0
15501_14073	15501	14073	1,169	57	7.7	1,496	37	6.9	327	-20	-0.8
15501_14655	15501	14655	1,182	87	20.8	1,006	34	12.8	-176	-53	-8.0
15501_14722	15501	14722	994	1	20.5	674	4	21.5	-320	3	1.0
15502_14073	15502	14073	850	4	6.5	478	4	6.6	-372	0	0.1
15503_14723	15503	14723	930	105	16.0	0	0	17.2	-930	-105	1.1
15503_15502	15503	15502	383	0	22.6	0	0	21.3	-383	0	-1.3
15504_14972	15504	14972	0	0	23.4	0	0	23.4	0	0	0.0
15504_15503	15504	15503	0	0	15.8	0	0	16.1	0	0	0.2
15505_15502	15505	15502	0	0	15.9	0	0	15.9	0	0	0.0
15505_15504	15505	15504	0	0	22.8	0	0	22.8	0	0	0.0
15507_15502	15507	15502	1,160	92	15.9	538	5	16.2	-622	-87	0.3
15507_15506	15507	15506	0	0	25.0	0	0	25.0	0	0	0.0
15509_14306	15509	14306	1,146	38	12.8	1,719	45	12.7	573	7	-0.1
15509_15507	15509	15507	778	84	20.9	169	0	21.0	-609	-84	0.1
15509_15508	15509	15508	0	0	25.0	0	0	25.0	0	0	0.0

Road	A node	B node	Without the Proposed Scheme			With the Proposed Scheme			Change in AADT	Change in HDVs	Change in Speed
			AADT	HDVs	Speed (kph) ¹	AADT	HDVs	Speed (kph) ¹			
15511_14723	15511	14723	815	54	17.9	0	0	14.1	-815	-54	-3.7
15511_14971	15511	14971	3,272	177	29.0	6	5	29.5	-3,266	-172	0.5
15511_15510	15511	15510	1,118	3	19.9	0	0	20.2	-1,118	-3	0.3
15513_14756	15513	14756	0	0	16.0	0	0	15.6	0	0	-0.4
15516_15503	15516	15503	410	0	18.2	0	0	18.2	-410	0	0.0
15516_15506	15516	15506	708	3	25.0	0	0	25.0	-708	-3	0.0
15516_15510	15516	15510	0	0	25.0	0	0	25.0	0	0	0.0
15900_14365	15900	14365	7,863	810	16.9	7,999	840	16.9	136	30	0.0
15900_14366	15900	14366	2,667	293	25.0	2,684	295	25.0	17	2	0.0
15900_14451	15900	14451	0	0	6.6	0	0	6.6	0	0	0.0
16000_14108	16000	14108	4,028	157	27.1	4,119	161	27.1	91	4	0.0
16001_14107	16001	14107	8,676	998	26.3	8,758	1,007	26.3	82	9	0.0
16001_14108	16001	14108	7,291	620	29.1	7,575	629	29.0	284	9	0.0
16045_16000	16045	16000	6,823	280	12.2	6,887	289	12.2	64	10	0.1
16142_14110	16142	14110	12,234	1,162	8.8	12,248	1,188	8.8	14	26	0.0
16177_14505	16177	14505	1,210	904	28.2	1,207	905	28.2	-3	1	0.0
16181_14624	16181	14624	18,052	740	29.7	17,935	735	29.7	-117	-5	0.0
16183_14625	16183	14625	3,599	828	23.5	3,607	826	23.5	8	-2	0.0
16251_16177	16251	16177	1,209	904	5.2	1,207	905	5.2	-2	1	0.0
16252_16251	16252	16251	1,209	904	32.0	1,207	905	32.0	-2	1	0.0

Road	A node	B node	Without the Proposed Scheme			With the Proposed Scheme			Change in AADT	Change in HDVs	Change in Speed
			AADT	HDVs	Speed (kph) ¹	AADT	HDVs	Speed (kph) ¹			
16378_14087	16378	14087	6,095	201	13.0	6,166	210	13.0	71	9	0.0
16378_16000	16378	16000	3,535	85	14.1	3,259	81	14.2	-276	-3	0.1
16381_16251	16381	16251	434	23	16.6	437	23	16.6	3	0	0.1
16387_16001	16387	16001	11,401	1,174	16.4	11,668	1,178	16.5	267	4	0.1
12005_12006	12005	12006	407	22	25.0	407	23	25.0	0	1	0.0
12007_12008	12007	12008	4,536	0	18.7	4,418	0	18.7	-118	0	0.0
12154_12155	12154	12155	806	75	23.0	804	74	23.0	-2	-1	0.0
12172_12173	12172	12173	0	0	13.8	0	0	13.8	0	0	0.0
12174_12175	12174	12175	968	119	21.6	984	119	21.6	16	0	0.0
12176_12178	12176	12178	0	0	23.3	0	0	23.3	0	0	0.0
12178_12179	12178	12179	0	0	15.9	0	0	15.9	0	0	0.0
12179_12180	12179	12180	0	0	18.8	0	0	18.8	0	0	0.0
12193_12194	12193	12194	544	4	25.0	470	4	25.0	-74	0	0.0
12224_12225	12224	12225	36,561	1,901	5.8	36,305	1,924	5.8	-256	23	0.0
12224_12226	12224	12226	48,806	2,001	3.2	48,925	2,055	3.2	119	54	-0.1
12224_12337	12224	12337	650	1	3.3	872	1	3.2	222	0	0.0
12225_12337	12225	12337	0	0	15.2	0	0	15.2	0	0	0.0
12339_12345	12339	12345	4,071	138	13.4	4,071	138	13.4	0	0	0.0
12341_12345	12341	12345	6,597	211	20.4	6,572	217	20.4	-25	6	0.0
12353_12354	12353	12354	542	5	13.7	538	5	13.7	-4	0	0.0

Road	A node	B node	Without the Proposed Scheme			With the Proposed Scheme			Change in AADT	Change in HDVs	Change in Speed
			AADT	HDVs	Speed (kph) ¹	AADT	HDVs	Speed (kph) ¹			
12081_12358	12081	12358	4,754	1,550	22.1	4,805	1,552	22.0	51	2	0.0
12357_12359	12357	12359	68	0	22.9	79	0	22.9	11	0	0.0
12175_12360	12175	12360	968	119	22.1	984	119	22.1	16	0	0.0
12008_12368	12008	12368	5,653	23	6.7	5,560	22	6.7	-93	0	0.1
12368_12376	12368	12376	17,375	1,564	13.7	17,265	1,537	14.0	-110	-27	0.3
12005_12380	12005	12380	9,321	475	15.8	9,240	471	16.2	-81	-4	0.3
12007_12380	12007	12380	7,937	659	11.4	7,578	712	11.4	-359	54	0.1
12380_12381	12380	12381	10,857	1,031	13.9	10,537	1,149	15.5	-320	117	1.6
12005_12387	12005	12387	5,954	381	8.1	5,963	370	8.1	9	-11	0.0
12164_12401	12164	12401	4,916	84	14.2	4,916	84	14.2	0	0	0.0
12401_12402	12401	12402	8,845	327	14.1	9,180	330	13.8	335	3	-0.3
12360_12413	12360	12413	968	119	18.5	984	119	18.5	16	0	0.0
12355_12415	12355	12415	652	61	21.4	655	61	21.4	3	0	0.0
12415_12416	12415	12416	0	0	21.4	0	0	21.4	0	0	0.0
12416_12418	12416	12418	605	1	15.5	605	1	15.5	0	0	0.0
12178_12419	12178	12419	0	0	18.5	0	0	18.5	0	0	0.0
12415_12419	12415	12419	340	40	20.3	334	39	20.3	-6	-1	0.0
12180_12421	12180	12421	258	0	16.8	283	0	16.8	25	0	0.0
12413_12421	12413	12421	720	699	13.4	719	697	13.4	-1	-2	0.0
12421_12422	12421	12422	720	699	13.4	719	697	13.4	-1	-2	0.0

Road	A node	B node	Without the Proposed Scheme			With the Proposed Scheme			Change in AADT	Change in HDVs	Change in Speed
			AADT	HDVs	Speed (kph) ¹	AADT	HDVs	Speed (kph) ¹			
12354_12423	12354	12423	5,075	284	20.3	4,994	265	20.3	-81	-20	0.0
12361_12426	12361	12426	12,414	1,440	1.7	12,424	1,391	1.7	10	-49	0.0
12368_12454	12368	12454	2,852	100	24.2	2,907	105	24.2	55	5	0.0
12291_12477	12291	12477	43,263	2,769	13.5	45,218	2,939	13.2	1,955	170	-0.3
12402_12477	12402	12477	927	0	13.2	1,065	0	13.1	138	0	-0.1
12476_12478	12476	12478	39,210	2,313	4.7	38,648	2,435	4.8	-562	121	0.1
12477_12478	12477	12478	40,435	2,750	10.9	41,623	2,914	11.1	1,188	164	0.2
12228_12480	12228	12480	1,036	38	24.8	827	111	24.7	-209	72	-0.1
12480_12482	12480	12482	4,510	63	9.6	4,580	156	9.6	70	93	0.0
12481_12485	12481	12485	13,124	1,037	27.1	13,422	980	27.1	298	-57	0.0
12226_12486	12226	12486	48,805	2,001	2.9	48,926	2,055	2.7	121	54	-0.2
12402_12487	12402	12487	12,337	605	21.3	12,671	608	21.1	334	4	-0.2
12482_12488	12482	12488	435	43	15.0	449	55	14.9	14	12	-0.1
12485_12489	12485	12489	16,265	1,122	25.5	16,437	1,068	25.6	172	-54	0.1
12223_12492	12223	12492	54,781	2,301	4.4	54,857	2,414	4.3	76	113	-0.1
12489_12495	12489	12495	7,922	848	13.4	7,711	779	13.4	-211	-69	0.1
12492_12496	12492	12496	52,505	2,048	27.5	52,426	2,097	27.4	-79	49	-0.1
12488_12498	12488	12498	435	43	9.3	448	55	9.3	13	12	0.0
12426_12499	12426	12499	13,448	1,721	14.1	13,492	1,687	14.0	44	-35	-0.1
12426_12501	12426	12501	0	0	26.7	0	0	26.7	0	0	0.0

Road	A node	B node	Without the Proposed Scheme			With the Proposed Scheme			Change in AADT	Change in HDVs	Change in Speed
			AADT	HDVs	Speed (kph) ¹	AADT	HDVs	Speed (kph) ¹			
12496_12503	12496	12503	52,384	2,043	53.1	52,274	2,091	53.2	-110	48	0.1
12154_12504	12154	12504	6,094	658	13.0	6,094	646	13.1	0	-12	0.0
12503_12505	12503	12505	52,384	2,043	46.8	52,274	2,091	48.2	-110	48	1.4
12496_12506	12496	12506	121	8	13.7	151	23	13.6	30	15	-0.1
12499_12506	12499	12506	24,193	2,443	12.0	24,249	2,376	12.1	56	-67	0.1
12506_12512	12506	12512	22,742	2,138	18.5	22,828	2,077	18.5	86	-60	0.0
12500_12513	12500	12513	4,519	352	21.5	4,302	340	21.5	-217	-13	0.0
12512_12519	12512	12519	24,596	3,001	18.4	24,713	2,966	18.4	117	-35	0.0
12081_12534	12081	12534	5,134	1,525	28.5	5,231	1,527	28.5	97	3	0.0
12319_12539	12319	12539	1,552	172	2.1	1,524	174	2.2	-28	1	0.1
12538_12539	12538	12539	7,022	1,538	10.5	7,099	1,540	10.5	77	3	0.0
12539_12543	12539	12543	4,608	1,539	26.3	4,684	1,541	26.3	76	2	0.0
12487_12577	12487	12577	4,693	164	16.6	5,009	185	16.4	316	21	-0.2
12513_12595	12513	12595	1,577	131	23.2	1,623	140	23.2	46	9	0.0
12575_12595	12575	12595	350	77	22.6	356	77	22.5	6	0	0.0
12416_12598	12416	12598	0	0	12.2	0	0	12.1	0	0	-0.1
12417_12598	12417	12598	10,451	1,494	24.1	10,350	1,480	24.0	-101	-14	-0.1
12352_12604	12352	12604	9,989	1,039	7.8	10,270	1,027	7.7	281	-12	-0.1
12598_12604	12598	12604	7,897	1,311	2.5	7,776	1,291	2.3	-121	-20	-0.2
12482_12679	12482	12679	507	12	16.5	476	14	16.5	-31	2	0.0

Road	A node	B node	Without the Proposed Scheme			With the Proposed Scheme			Change in AADT	Change in HDVs	Change in Speed
			AADT	HDVs	Speed (kph) ¹	AADT	HDVs	Speed (kph) ¹			
12482_12696	12482	12696	12,688	837	30.0	12,277	896	30.0	-411	59	0.0
12504_12760	12504	12760	7,663	567	23.1	7,751	597	23.1	88	30	0.0
12519_12760	12519	12760	1,302	76	30.6	1,273	75	30.8	-29	0	0.2
12756_12760	12756	12760	249	0	20.5	263	0	20.5	14	0	0.0
12543_12765	12543	12765	5,636	1,539	27.1	5,723	1,539	27.1	87	1	0.0
12595_12773	12595	12773	379	59	25.0	433	59	25.0	54	0	0.0
12338_12781	12338	12781	3,897	35	18.0	4,090	37	17.9	193	2	-0.1
12341_12781	12341	12781	5,536	172	22.5	5,627	163	22.5	91	-8	0.0
12423_12847	12423	12847	7,750	310	27.1	7,660	314	27.1	-90	4	0.0
12173_12848	12173	12848	0	0	23.1	0	0	23.1	0	0	0.0
12177_12848	12177	12848	1,733	151	24.0	1,760	151	24.0	27	1	0.0
12160_12867	12160	12867	272	5	2.8	252	4	2.8	-20	-1	0.0
12226_12867	12226	12867	8,188	1,785	22.6	8,258	1,833	22.6	70	48	0.1
12226_12902	12226	12902	4,872	141	31.1	5,154	211	31.1	282	70	-0.1
12224_12903	12224	12903	7,224	1,589	31.2	7,559	1,633	31.1	335	43	-0.1
12902_12903	12902	12903	1,741	103	12.4	1,899	158	12.3	158	55	-0.1
12481_12904	12481	12904	10,412	708	21.4	8,896	667	21.9	-1,516	-41	0.5
12514_12915	12514	12915	1,006	0	24.0	1,036	0	24.0	30	0	0.0
12538_12915	12538	12915	3,034	133	19.4	3,046	146	19.4	12	13	0.0
12840_12915	12840	12915	29	0	15.0	15	0	15.0	-14	0	0.0

Road	A node	B node	Without the Proposed Scheme			With the Proposed Scheme			Change in AADT	Change in HDVs	Change in Speed
			AADT	HDVs	Speed (kph) ¹	AADT	HDVs	Speed (kph) ¹			
12506_12917	12506	12917	11,979	431	47.0	12,071	422	47.0	92	-9	0.0
12228_13085	12228	13085	39,366	2,323	12.9	38,773	2,443	13.0	-593	120	0.0
12476_13085	12476	13085	41,757	2,589	23.6	43,582	2,746	23.3	1,825	157	-0.2
12223_13105	12223	13105	32,893	1,908	0.7	32,818	1,903	0.6	-75	-4	-0.1
13070_13105	13070	13105	45,499	1,911	2.7	45,442	1,999	2.3	-57	88	-0.4
12609_13124	12609	13124	6,075	790	19.7	6,087	785	19.7	12	-5	0.0
12487_13161	12487	13161	11,133	468	23.6	11,100	466	23.6	-33	-1	0.0
12223_13186	12223	13186	4,540	27	25.0	5,063	30	25.0	523	3	0.0
12225_13207	12225	13207	43,694	2,753	33.0	43,895	2,897	33.0	201	144	0.0
12291_13207	12291	13207	35,718	2,036	23.1	35,770	2,146	22.9	52	110	-0.1
12401_13207	12401	13207	5,092	61	13.5	5,329	64	13.3	237	3	-0.2
12007_13245	12007	13245	6,219	634	26.5	6,258	595	26.5	39	-40	0.0
12376_13245	12376	13245	5,290	635	33.5	5,205	692	33.5	-85	57	0.0
12379_13245	12379	13245	79	70	22.6	80	66	22.6	1	-4	0.0
12381_13270	12381	13270	17,088	1,794	39.7	17,564	1,897	39.7	476	103	-0.1
13273_13274	13273	13274	2,608	0	25.1	4,001	0	24.5	1,393	0	-0.5
12412_13275	12412	13275	3,773	0	30.0	5,881	0	29.3	2,108	0	-0.7
13272_13275	13272	13275	672	0	21.7	1,292	0	21.8	620	0	0.1
13273_13275	13273	13275	5,313	0	24.5	5,426	0	24.5	113	0	0.0
12370_13277	12370	13277	1,008	273	25.0	1,034	273	25.0	26	0	0.0

Road	A node	B node	Without the Proposed Scheme			With the Proposed Scheme			Change in AADT	Change in HDVs	Change in Speed
			AADT	HDVs	Speed (kph) ¹	AADT	HDVs	Speed (kph) ¹			
12425_13277	12425	13277	6,051	381	32.0	5,572	334	32.0	-479	-47	0.0
12337_13278	12337	13278	650	1	31.0	872	1	31.0	222	0	0.0
12370_13278	12370	13278	11,531	1,995	31.0	11,544	2,136	31.0	13	141	0.0
12370_13279	12370	13279	4,872	141	36.0	5,154	211	36.0	282	70	0.0
12867_13279	12867	13279	7,253	1,581	36.0	7,308	1,637	36.0	55	56	0.0
12004_13287	12004	13287	644	0	19.2	392	0	18.9	-252	0	-0.3
12381_13287	12381	13287	15,277	1,589	39.3	15,826	1,614	39.1	549	25	-0.1
12389_13287	12389	13287	7,533	1,040	35.7	8,505	1,140	35.5	972	100	-0.1
12399_13288	12399	13288	367	0	17.4	370	0	17.6	3	0	0.1
13274_13288	13274	13288	2,608	0	23.8	4,001	0	22.0	1,393	0	-1.8
12412_13293	12412	13293	18,016	1,279	45.0	17,106	1,334	45.0	-910	55	0.0
12291_13333	12291	13333	2,421	0	25.0	2,518	0	25.0	97	0	0.0
13288_13333	13288	13333	757	0	25.0	1,873	0	25.0	1,116	0	0.0
12223_13335	12223	13335	10,007	520	24.8	9,730	525	24.8	-277	5	0.0
12055_13337	12055	13337	2,050	508	8.5	2,000	528	8.6	-50	20	0.0
12376_13337	12376	13337	17,204	1,308	16.8	17,367	1,303	16.8	163	-5	0.0
13271_13337	13271	13337	9,702	1,135	1.7	9,987	1,198	1.7	285	63	0.0
12008_13338	12008	13338	1,079	1	20.7	1,087	1	20.7	8	0	-0.1
12380_13338	12380	13338	7,550	423	37.7	7,776	358	37.8	226	-65	0.1
12370_13340	12370	13340	11,954	1,279	39.0	11,412	1,324	39.0	-542	45	0.0

Road	A node	B node	Without the Proposed Scheme			With the Proposed Scheme			Change in AADT	Change in HDVs	Change in Speed
			AADT	HDVs	Speed (kph) ¹	AADT	HDVs	Speed (kph) ¹			
12412_13340	12412	13340	11,768	1,659	44.0	11,878	1,924	44.0	110	265	0.0
12492_13352	12492	13352	5,450	512	27.6	5,543	538	27.5	93	25	0.0
12504_13352	12504	13352	5,146	638	28.4	5,128	631	28.4	-18	-7	0.0
13070_13354	13070	13354	0	0	19.6	0	0	19.6	0	0	0.0
13353_13354	13353	13354	1,475	7	21.7	1,575	6	21.6	100	-1	0.0
13354_13355	13354	13355	1,475	7	21.0	1,575	6	21.0	100	-1	0.0
12486_13356	12486	13356	4,260	226	20.1	4,276	227	20.2	16	1	0.1
12513_13356	12513	13356	2,529	271	25.9	2,361	262	26.0	-168	-9	0.0
13355_13356	13355	13356	1,473	7	11.9	1,572	6	11.8	99	-1	0.0
12486_13357	12486	13357	43,459	1,782	27.7	43,482	1,826	27.7	23	44	0.0
13070_13357	13070	13357	35,326	2,014	27.0	35,032	2,032	27.1	-294	18	0.0
13355_13357	13355	13357	1,398	117	13.6	1,351	122	13.6	-47	4	0.0
12476_13358	12476	13358	974	262	24.4	877	256	24.4	-97	-6	0.0
13085_13358	13085	13358	109	5	19.6	84	4	19.7	-25	-1	0.0
12159_13387	12159	13387	1,727	0	23.6	2,784	0	23.4	1,057	0	-0.2
13272_13387	13272	13387	1,319	0	24.6	2,136	0	24.6	817	0	0.0
12193_13390	12193	13390	12,262	515	42.0	12,115	545	42.0	-147	30	0.0
12228_13391	12228	13391	3,762	0	20.4	4,112	0	20.3	350	0	-0.1
13288_13391	13288	13391	2,401	0	25.0	3,238	0	25.0	837	0	0.0
12534_13431	12534	13431	7,766	1,538	22.6	7,844	1,537	22.6	78	0	0.0

Road	A node	B node	Without the Proposed Scheme			With the Proposed Scheme			Change in AADT	Change in HDVs	Change in Speed
			AADT	HDVs	Speed (kph) ¹	AADT	HDVs	Speed (kph) ¹			
12538_13431	12538	13431	3,679	1,549	28.9	3,699	1,550	28.9	20	1	0.0
12500_13478	12500	13478	8,754	1,786	8.1	8,974	1,804	8.0	220	18	0.0
12902_13478	12902	13478	2,410	7	10.6	2,464	5	10.6	54	-2	0.0
12493_13480	12493	13480	2,533	268	30.9	2,518	269	30.9	-15	1	0.1
12903_13480	12903	13480	9,681	1,723	29.0	10,241	1,843	28.7	560	120	-0.3
12491_13481	12491	13481	7,744	372	28.8	8,299	382	28.7	555	10	-0.1
13270_13482	13270	13482	22,535	2,028	21.8	21,137	2,156	21.9	-1,398	128	0.2
13390_13482	13390	13482	12,263	515	30.0	12,115	545	30.0	-148	30	0.0
13293_13483	13293	13483	18,016	1,279	36.8	17,106	1,334	36.8	-910	55	0.0
13482_13483	13482	13483	23,844	2,122	6.0	25,702	2,313	7.0	1,858	191	1.0
12511_13992	12511	13992	3,743	198	22.9	3,785	204	22.8	42	6	0.0
13186_13992	13186	13992	4,540	27	26.1	5,063	30	26.0	523	3	-0.1
13353_13992	13353	13992	3,030	9	14.9	2,941	9	14.8	-89	0	-0.1
12228_14004	12228	14004	40,957	2,621	7.1	43,044	2,712	6.3	2,087	91	-0.8
12480_14004	12480	14004	3,942	292	7.3	4,529	308	7.0	587	16	-0.3
14065_14073	14065	14073	7,798	1,068	15.3	8,406	1,194	15.2	608	125	-0.1
14107_14108	14107	14108	0	0	19.3	0	0	19.3	0	0	0.0
14109_14110	14109	14110	32,293	2,422	11.1	31,805	2,449	11.6	-488	27	0.4
14114_14116	14114	14116	1,387	60	14.9	1,387	60	14.9	0	0	0.0
14116_14117	14116	14117	742	35	19.1	733	34	19.1	-9	-1	0.0

Road	A node	B node	Without the Proposed Scheme			With the Proposed Scheme			Change in AADT	Change in HDVs	Change in Speed
			AADT	HDVs	Speed (kph) ¹	AADT	HDVs	Speed (kph) ¹			
14130_14131	14130	14131	9,093	582	18.0	9,263	584	17.9	170	2	0.0
14138_14139	14138	14139	10,559	1,763	10.0	11,173	1,777	9.9	614	13	-0.1
14141_14142	14141	14142	16,506	479	22.0	17,080	478	22.0	574	0	-0.1
14142_14144	14142	14144	5,846	216	21.9	5,990	222	21.9	144	5	0.1
14136_14211	14136	14211	6,196	223	11.6	4,051	101	9.4	-2,145	-122	-2.3
14129_14212	14129	14212	11,617	755	2.1	12,170	779	3.0	553	24	0.9
14211_14219	14211	14219	1,919	0	21.3	2,757	0	20.4	838	0	-0.9
14142_14222	14142	14222	817	18	20.2	821	18	20.1	4	0	-0.2
12399_14235	12399	14235	1,814	62	22.5	1,894	61	22.3	80	-1	-0.2
14219_14235	14219	14235	1,167	6	23.7	1,552	6	23.7	385	0	0.0
14251_14253	14251	14253	12,952	181	30.8	13,566	176	30.8	614	-5	0.0
12904_14284	12904	14284	7,636	657	24.0	6,000	624	24.2	-1,636	-33	0.2
12358_14285	12358	14285	0	0	8.9	0	0	8.9	0	0	0.0
12417_14288	12417	14288	9,313	941	11.2	9,634	944	11.1	321	4	-0.1
12422_14288	12422	14288	720	699	13.4	719	697	13.4	-1	-2	0.0
13124_14288	13124	14288	5,589	777	16.0	5,574	775	16.0	-15	-2	0.0
12489_14289	12489	14289	5,374	177	19.9	5,683	182	19.7	309	5	-0.2
14069_14294	14069	14294	38,886	3,578	18.7	38,442	3,575	19.4	-444	-2	0.7
14070_14294	14070	14294	31,115	2,738	12.0	30,808	2,773	12.1	-307	35	0.1
14099_14296	14099	14296	5,073	299	25.7	5,568	329	25.6	495	29	-0.1

Road	A node	B node	Without the Proposed Scheme			With the Proposed Scheme			Change in AADT	Change in HDVs	Change in Speed
			AADT	HDVs	Speed (kph) ¹	AADT	HDVs	Speed (kph) ¹			
14069_14297	14069	14297	3,740	165	25.4	3,551	174	25.3	-189	9	-0.1
14069_14299	14069	14299	37,433	2,807	12.0	37,215	2,828	11.9	-218	21	0.0
14099_14301	14099	14301	5,767	415	4.5	6,120	441	4.3	353	25	-0.1
14067_14303	14067	14303	37,250	2,906	5.4	36,877	3,024	5.6	-373	118	0.2
14301_14303	14301	14303	34,060	1,941	11.7	34,032	2,042	11.6	-28	101	-0.2
14305_14307	14305	14307	1,286	1,112	2.6	1,189	1,109	2.6	-97	-3	0.0
14065_14308	14065	14308	11,553	878	2.6	12,099	932	2.6	546	54	0.0
14308_14312	14308	14312	18,316	1,227	5.7	20,080	1,325	5.3	1,764	98	-0.4
14305_14313	14305	14313	37,645	1,431	30.2	38,723	1,471	29.8	1,078	41	-0.3
14312_14313	14312	14313	12,424	944	31.5	12,831	988	31.4	407	44	0.0
14112_14314	14112	14314	8,698	496	33.0	7,820	454	33.0	-878	-42	0.0
14283_14315	14283	14315	41,749	2,714	23.8	43,593	2,834	23.6	1,844	120	-0.2
14310_14316	14310	14316	5,877	206	8.1	6,829	239	7.9	952	33	-0.2
14311_14318	14311	14318	6,077	231	28.8	6,118	232	28.8	41	2	0.0
14292_14320	14292	14320	8,953	340	20.2	8,849	354	20.2	-104	14	-0.1
14318_14321	14318	14321	7,099	248	25.5	7,139	243	25.5	40	-6	0.0
14321_14322	14321	14322	5,938	184	28.9	5,937	190	28.8	-1	6	0.0
14319_14323	14319	14323	1,225	1,181	5.8	1,225	1,178	5.9	0	-2	0.0
14309_14324	14309	14324	8,629	2,200	3.1	8,515	2,214	3.1	-114	14	0.0
14316_14325	14316	14325	7,060	233	5.0	8,020	265	3.6	960	32	-1.4

Road	A node	B node	Without the Proposed Scheme			With the Proposed Scheme			Change in AADT	Change in HDVs	Change in Speed
			AADT	HDVs	Speed (kph) ¹	AADT	HDVs	Speed (kph) ¹			
14324_14326	14324	14326	247	18	15.9	246	18	16.0	-1	0	0.0
14323_14329	14323	14329	1,225	1,181	25.8	1,225	1,178	25.8	0	-2	0.0
14329_14333	14329	14333	1,225	1,181	7.7	1,225	1,178	7.7	0	-2	0.0
14325_14334	14325	14334	3,764	158	9.9	3,504	189	10.1	-260	31	0.1
14280_14336	14280	14336	3,932	515	8.1	3,860	537	8.1	-72	21	0.0
14335_14336	14335	14336	3,774	166	4.8	3,554	121	4.9	-220	-45	0.1
14334_14338	14334	14338	11,286	632	2.9	11,137	657	3.0	-149	25	0.1
14281_14340	14281	14340	609	72	3.7	621	72	3.7	12	0	0.0
14292_14343	14292	14343	6,853	164	3.9	6,718	175	4.1	-135	10	0.2
14309_14343	14309	14343	5,309	292	7.3	5,261	300	7.4	-48	8	0.0
14326_14343	14326	14343	4,094	94	12.8	3,927	102	12.9	-167	8	0.1
14340_14344	14340	14344	20,621	3,052	6.9	20,299	2,984	7.0	-322	-68	0.0
14055_14350	14055	14350	19,258	2,735	2.8	19,211	2,747	2.8	-47	13	0.0
14344_14353	14344	14353	10,977	1,658	4.7	10,774	1,659	4.8	-203	2	0.0
12358_14358	12358	14358	4,754	1,550	3.9	4,805	1,552	3.7	51	2	-0.3
14302_14363	14302	14363	4,401	660	32.0	4,338	659	32.0	-63	-1	0.0
14297_14364	14297	14364	3,584	125	26.3	3,389	125	26.3	-195	0	0.0
14304_14364	14304	14364	1,246	66	28.2	1,301	62	28.2	55	-4	0.0
14282_14365	14282	14365	3,106	267	20.5	2,970	267	20.6	-136	0	0.1
14336_14365	14336	14365	1,668	30	20.7	1,527	31	20.6	-141	1	-0.1

Road	A node	B node	Without the Proposed Scheme			With the Proposed Scheme			Change in AADT	Change in HDVs	Change in Speed
			AADT	HDVs	Speed (kph) ¹	AADT	HDVs	Speed (kph) ¹			
14304_14368	14304	14368	2,089	71	32.0	1,938	68	32.0	-151	-3	0.0
14310_14369	14310	14369	4,447	440	23.0	4,306	543	23.0	-141	102	0.0
14325_14370	14325	14370	4,202	357	22.9	4,208	358	22.9	6	1	0.0
14291_14371	14291	14371	560	90	22.3	556	97	22.3	-4	7	0.0
14326_14373	14326	14373	3,774	166	28.0	3,554	121	28.0	-220	-45	0.0
14335_14373	14335	14373	9,865	819	28.0	9,741	818	28.0	-124	-1	0.0
14352_14378	14352	14378	2,243	103	32.0	2,246	103	32.0	3	0	0.0
14288_14381	14288	14381	5,900	142	32.0	6,178	142	32.0	278	0	0.0
14280_14382	14280	14382	1,149	179	19.5	1,130	180	19.6	-19	0	0.1
14281_14382	14281	14382	7,798	281	16.3	7,730	286	16.2	-68	5	0.0
14282_14382	14282	14382	275	34	21.0	264	34	21.0	-11	0	0.0
14004_14388	14004	14388	44,530	2,984	1.5	46,121	3,090	1.5	1,591	107	0.0
14283_14388	14283	14388	41,329	2,149	1.7	41,255	2,228	1.7	-74	79	0.0
14284_14388	14284	14388	11,378	671	7.1	10,258	657	7.0	-1,120	-15	-0.1
14067_14393	14067	14393	38,931	2,531	34.0	39,911	2,594	34.0	980	64	0.0
14305_14393	14305	14393	37,108	2,894	24.3	38,536	3,044	24.2	1,428	150	-0.1
14070_14418	14070	14418	38,222	3,516	29.2	37,887	3,523	29.2	-335	7	0.0
14109_14418	14109	14418	29,859	3,016	30.9	29,647	3,054	30.9	-212	38	0.0
14338_14435	14338	14435	4,010	80	28.3	4,019	80	28.3	9	0	0.0
14342_14436	14342	14436	171	170	30.0	171	170	30.0	0	0	0.0

Road	A node	B node	Without the Proposed Scheme			With the Proposed Scheme			Change in AADT	Change in HDVs	Change in Speed
			AADT	HDVs	Speed (kph) ¹	AADT	HDVs	Speed (kph) ¹			
14344_14436	14344	14436	21,614	2,896	28.0	21,730	2,890	28.0	116	-6	0.0
14337_14437	14337	14437	10,517	1,283	28.5	10,523	1,284	28.5	6	1	0.0
14342_14438	14342	14438	8,915	1,614	23.0	8,863	1,613	23.0	-52	-1	0.0
14437_14438	14437	14438	10,346	1,107	23.8	10,352	1,118	23.8	6	11	0.0
14344_14448	14344	14448	171	170	40.0	171	170	40.0	0	0	0.0
14282_14449	14282	14449	9,272	566	25.9	9,218	608	25.8	-54	43	0.0
14347_14449	14347	14449	171	170	40.0	171	170	40.0	0	0	0.0
14347_14450	14347	14450	22,144	2,369	40.0	22,221	2,422	40.0	77	53	0.0
14448_14450	14448	14450	171	170	30.0	171	170	30.0	0	0	0.0
14449_14451	14449	14451	171	170	16.3	171	170	16.3	0	0	0.0
14324_14491	14324	14491	12,629	2,804	31.0	12,468	2,818	31.0	-161	14	0.0
14327_14491	14327	14491	10,200	877	31.0	10,112	900	31.0	-88	23	0.0
14327_14493	14327	14493	18,371	3,123	31.0	18,149	3,140	31.0	-222	17	0.0
14110_14505	14110	14505	10,712	1,178	23.1	10,660	1,226	23.1	-52	48	0.0
12413_14522	12413	14522	4,326	1,458	16.8	4,428	1,470	16.8	102	12	0.0
14099_14525	14099	14525	1,402	803	32.0	1,408	804	32.0	6	1	0.0
14301_14526	14301	14526	33,448	1,907	8.1	33,319	1,899	7.7	-129	-7	-0.4
14521_14526	14521	14526	34,869	2,650	13.3	34,865	2,719	13.0	-4	69	-0.3
14525_14526	14525	14526	1,402	803	2.1	1,408	804	2.0	6	1	-0.1
14067_14527	14067	14527	4,756	152	21.4	3,101	0	21.3	-1,655	-152	-0.1

Road	A node	B node	Without the Proposed Scheme			With the Proposed Scheme			Change in AADT	Change in HDVs	Change in Speed
			AADT	HDVs	Speed (kph) ¹	AADT	HDVs	Speed (kph) ¹			
14320_14527	14320	14527	6,014	210	24.3	6,518	209	24.0	504	-2	-0.3
14343_14528	14343	14528	2,112	114	22.0	2,051	125	22.0	-61	11	0.0
14321_14529	14321	14529	1,139	57	25.0	1,180	52	25.0	41	-5	0.0
14313_14531	14313	14531	8,040	1,190	32.0	9,219	1,162	32.0	1,179	-28	0.0
14301_14543	14301	14543	18,886	2,701	11.7	19,399	2,949	10.7	513	248	-1.1
14309_14543	14309	14543	14,201	1,676	27.4	14,220	1,678	27.5	19	2	0.0
14304_14544	14304	14544	3,505	266	19.4	3,458	266	19.5	-47	0	0.0
14309_14544	14309	14544	3,707	67	20.1	3,682	66	20.1	-25	0	0.0
14381_14547	14381	14547	5,900	142	26.5	6,178	142	26.5	278	0	0.0
14333_14548	14333	14548	1,226	1,181	1.5	1,224	1,177	1.5	-2	-3	0.0
14283_14549	14283	14549	13,316	812	28.5	12,610	694	28.6	-706	-119	0.1
14549_14550	14549	14550	1,841	20	28.6	1,555	28	28.6	-286	8	0.0
14308_14551	14308	14551	3,450	1,432	30.0	2,682	1,309	30.0	-768	-123	0.0
14307_14552	14307	14552	2,511	1,175	30.0	2,482	1,174	30.0	-29	-1	0.0
14312_14552	14312	14552	7,293	481	30.0	8,621	517	30.0	1,328	36	0.0
14312_14553	14312	14553	1,039	998	30.0	1,039	996	30.0	0	-2	0.0
14319_14553	14319	14553	9,143	2,213	4.6	9,042	2,351	4.5	-101	138	-0.1
14313_14565	14313	14565	50,062	2,353	23.1	51,547	2,474	22.7	1,485	121	-0.4
14315_14565	14315	14565	41,749	2,714	16.6	43,593	2,834	16.4	1,844	120	-0.2
14099_14571	14099	14571	869	836	28.2	867	834	28.2	-2	-2	0.0

Road	A node	B node	Without the Proposed Scheme			With the Proposed Scheme			Change in AADT	Change in HDVs	Change in Speed
			AADT	HDVs	Speed (kph) ¹	AADT	HDVs	Speed (kph) ¹			
14303_14571	14303	14571	978	921	15.4	975	916	15.4	-3	-6	0.0
14320_14572	14320	14572	6,714	383	21.7	6,765	379	21.7	51	-4	0.0
14325_14572	14325	14572	3,636	55	23.0	4,808	67	23.0	1,172	13	0.0
14435_14572	14435	14572	17	0	20.5	23	0	20.5	6	0	0.0
14435_14573	14435	14573	3,993	80	30.4	3,996	80	30.4	3	0	0.0
14543_14574	14543	14574	5,182	285	30.0	5,321	372	30.0	139	87	0.0
14280_14580	14280	14580	2,598	132	7.2	2,540	89	7.3	-58	-44	0.0
14340_14580	14340	14580	5,230	1,773	5.0	5,148	1,838	5.0	-82	65	0.0
14493_14580	14493	14580	18,371	3,123	3.7	18,149	3,140	3.8	-222	17	0.1
14553_14607	14553	14607	0	0	25.0	0	0	25.0	0	0	0.0
14070_14608	14070	14608	2,323	186	32.0	2,398	187	32.0	75	1	0.0
14296_14609	14296	14609	5,048	288	29.7	5,534	304	29.6	486	17	0.0
14300_14612	14300	14612	744	53	21.6	761	53	21.6	17	0	0.0
14236_14614	14236	14614	11,951	621	38.0	9,113	383	38.0	-2,838	-239	0.0
14250_14614	14250	14614	4,995	250	38.0	0	0	38.0	-4,995	-250	0.0
14612_14615	14612	14615	1,536	109	25.0	1,535	109	25.0	-1	0	0.0
14070_14617	14070	14617	0	0	20.8	0	0	20.8	0	0	0.0
14616_14617	14616	14617	1,628	2	22.6	1,627	2	22.6	-1	0	0.0
14418_14618	14418	14618	54	0	23.3	54	0	23.3	0	0	0.0
14618_14619	14618	14619	54	0	25.0	54	0	25.0	0	0	0.0

Road	A node	B node	Without the Proposed Scheme			With the Proposed Scheme			Change in AADT	Change in HDVs	Change in Speed
			AADT	HDVs	Speed (kph) ¹	AADT	HDVs	Speed (kph) ¹			
14300_14621	14300	14621	867	422	26.3	858	423	26.3	-9	1	0.0
14302_14621	14302	14621	2,553	664	28.8	2,644	672	28.8	91	8	0.0
14612_14622	14612	14622	1,584	198	24.4	1,582	198	24.4	-2	0	0.0
14621_14622	14621	14622	0	0	23.7	0	0	23.7	0	0	0.0
14302_14623	14302	14623	3,439	272	23.5	3,388	271	23.5	-51	-1	0.0
14304_14623	14304	14623	2,949	145	29.0	2,880	147	29.0	-69	2	0.0
14624_14625	14624	14625	384	14	13.6	378	15	13.6	-6	1	0.0
14250_14627	14250	14627	11,155	535	38.0	9,113	383	38.0	-2,042	-153	0.0
14211_14648	14211	14648	4,347	222	32.0	1,926	100	23.4	-2,421	-122	-8.6
14136_14650	14136	14650	7,993	312	36.0	9,990	260	36.0	1,997	-52	0.0
14137_14650	14137	14650	5,477	444	36.0	4,062	110	36.0	-1,415	-334	0.0
14142_14651	14142	14651	8,267	265	21.4	8,760	263	21.2	493	-2	-0.2
14651_14652	14651	14652	1,961	82	20.0	1,788	122	20.1	-173	39	0.0
14113_14656	14113	14656	7,825	235	18.1	4,364	271	18.5	-3,461	36	0.5
14648_14656	14648	14656	4,347	222	17.6	1,943	117	18.9	-2,404	-105	1.3
14526_14673	14526	14673	279	1	21.3	281	1	21.3	2	0	0.0
14673_14674	14673	14674	275	1	25.0	278	1	25.0	3	0	0.0
14129_14680	14129	14680	8,151	921	29.6	9,961	936	29.4	1,810	15	-0.2
14130_14680	14130	14680	950	852	24.6	1,014	851	24.6	64	-1	0.0
14136_14690	14136	14690	4,110	90	30.8	9	8	31.1	-4,101	-82	0.3

Road	A node	B node	Without the Proposed Scheme			With the Proposed Scheme			Change in AADT	Change in HDVs	Change in Speed
			AADT	HDVs	Speed (kph) ¹	AADT	HDVs	Speed (kph) ¹			
14673_14692	14673	14692	3	0	20.6	3	0	20.6	0	0	0.0
14138_14695	14138	14695	7,311	709	31.6	7,026	604	31.6	-285	-105	0.0
14691_14695	14691	14695	181	8	20.6	129	8	20.7	-52	0	0.0
14693_14695	14693	14695	814	4	20.8	886	6	20.8	72	2	0.0
14680_14696	14680	14696	7,850	926	30.3	9,027	930	30.2	1,177	3	-0.1
14691_14697	14691	14697	2,776	14	19.8	681	12	19.8	-2,095	-2	0.0
14696_14697	14696	14697	991	106	21.3	1,068	76	20.7	77	-30	-0.6
14222_14698	14222	14698	6,788	1,561	26.3	8,209	1,568	26.3	1,421	7	0.0
14651_14698	14651	14698	0	0	20.3	0	0	20.3	0	0	-0.1
14131_14699	14131	14699	19,146	1,589	30.5	17,308	1,627	30.6	-1,838	38	0.1
14073_14701	14073	14701	5,735	1,044	26.5	7,883	1,182	26.1	2,148	139	-0.4
14115_14701	14115	14701	12,412	757	23.5	13,132	801	23.8	720	44	0.3
14655_14701	14655	14701	2,642	37	24.8	996	30	24.5	-1,646	-7	-0.3
14117_14704	14117	14704	736	29	15.2	728	29	15.1	-8	0	0.0
14251_14704	14251	14704	7,623	335	28.7	7,468	351	28.7	-155	16	0.0
14692_14705	14692	14705	371	9	25.0	367	9	25.0	-4	0	0.0
14488_14707	14488	14707	2,485	37	20.8	2,414	39	20.6	-71	1	-0.1
14706_14707	14706	14707	1,613	32	15.2	1,614	32	15.2	1	0	0.0
14544_14708	14544	14708	2,365	116	18.9	2,365	116	18.9	0	0	0.0
14707_14708	14707	14708	1,483	27	22.0	1,398	27	22.0	-85	0	0.0

Road	A node	B node	Without the Proposed Scheme			With the Proposed Scheme			Change in AADT	Change in HDVs	Change in Speed
			AADT	HDVs	Speed (kph) ¹	AADT	HDVs	Speed (kph) ¹			
14299_14709	14299	14709	63	0	19.8	123	0	19.8	60	0	0.0
14324_14711	14324	14711	3,339	107	25.8	3,374	111	25.8	35	4	0.0
14322_14712	14322	14712	5,938	184	22.2	5,937	190	22.2	-1	6	0.0
14711_14713	14711	14713	2,429	29	21.1	2,450	29	21.0	21	0	0.0
14712_14713	14712	14713	0	0	17.4	0	0	17.4	0	0	0.0
14087_14714	14087	14714	7,833	305	25.7	7,905	316	25.6	72	11	-0.1
14604_14714	14604	14714	9,397	329	10.1	9,329	327	9.8	-68	-2	-0.2
14317_14715	14317	14715	314	0	23.9	216	0	23.9	-98	0	0.0
14713_14715	14713	14715	2,397	0	20.9	2,419	0	20.9	22	0	0.0
14132_14716	14132	14716	6,582	375	15.9	6,376	357	16.3	-206	-18	0.4
14318_14720	14318	14720	5,344	144	22.8	5,288	148	22.8	-56	4	0.0
14719_14720	14719	14720	6,973	328	12.2	6,973	328	12.2	0	0	0.0
14118_14721	14118	14721	0	0	12.6	0	0	12.5	0	0	-0.1
14609_14721	14609	14721	5,047	288	23.4	5,535	304	23.5	488	17	0.1
14112_14722	14112	14722	11,251	371	25.3	9,897	346	25.5	-1,354	-25	0.3
14113_14722	14113	14722	5,786	226	30.0	2,724	117	30.2	-3,062	-109	0.2
14115_14724	14115	14724	2,438	51	25.0	0	0	25.0	-2,438	-51	0.0
14723_14725	14723	14725	815	54	23.6	0	0	23.7	-815	-54	0.1
14724_14725	14724	14725	2,438	51	17.1	0	0	18.1	-2,438	-51	1.1
13391_14726	13391	14726	2,401	0	20.6	3,239	0	20.2	838	0	-0.4

Road	A node	B node	Without the Proposed Scheme			With the Proposed Scheme			Change in AADT	Change in HDVs	Change in Speed
			AADT	HDVs	Speed (kph) ¹	AADT	HDVs	Speed (kph) ¹			
14004_14726	14004	14726	2,079	0	23.9	3,359	0	23.9	1,280	0	-0.1
14235_14726	14235	14726	2,981	66	24.4	3,424	68	24.2	443	3	-0.2
14436_14729	14436	14729	3,162	101	22.4	3,214	103	22.4	52	2	0.0
14720_14729	14720	14729	4,011	229	22.6	3,983	227	22.6	-28	-2	0.0
12193_14736	12193	14736	11,680	467	21.3	8,521	435	23.4	-3,159	-33	2.1
13387_14736	13387	14736	1,228	0	8.9	1,777	0	8.3	549	0	-0.6
14613_14736	14613	14736	5,428	141	12.5	5,598	157	11.6	170	16	-0.9
14627_14736	14627	14736	11,155	535	21.6	9,112	383	24.4	-2,043	-153	2.8
12159_14737	12159	14737	2,612	47	15.4	3,966	48	8.7	1,354	1	-6.7
14219_14737	14219	14737	1,539	0	17.4	2,560	0	15.5	1,021	0	-2.0
14118_14744	14118	14744	1,942	70	17.3	2,007	74	17.3	65	4	0.0
14323_14746	14323	14746	2,465	271	27.6	2,503	285	27.6	38	14	0.0
14369_14746	14369	14746	0	0	18.2	0	0	18.2	0	0	0.0
14292_14748	14292	14748	7	3	22.1	8	3	22.1	1	0	0.0
14527_14748	14527	14748	2,084	48	20.4	1,995	0	20.2	-89	-48	-0.2
14528_14748	14528	14748	6,854	343	26.2	6,842	445	26.2	-12	102	0.0
14289_14751	14289	14751	9,880	316	21.6	10,037	331	21.6	157	15	-0.1
14371_14751	14371	14751	52	42	17.2	56	48	17.2	4	6	0.0
14654_14753	14654	14753	92	86	24.9	7	6	24.9	-85	-80	0.0
14690_14753	14690	14753	2,425	87	25.2	1,599	42	24.6	-826	-46	-0.5

Road	A node	B node	Without the Proposed Scheme			With the Proposed Scheme			Change in AADT	Change in HDVs	Change in Speed
			AADT	HDVs	Speed (kph) ¹	AADT	HDVs	Speed (kph) ¹			
14753_14754	14753	14754	183	0	19.5	0	0	13.1	-183	0	-6.4
14654_14755	14654	14755	206	30	26.3	276	22	16.8	70	-8	-9.5
14655_14755	14655	14755	617	95	25.0	69	17	10.2	-548	-78	-14.7
14754_14755	14754	14755	1,385	12	14.2	811	8	8.9	-574	-4	-5.3
14115_14756	14115	14756	7,836	932	24.0	8,141	1,001	23.9	305	69	-0.1
14755_14756	14755	14756	2	2	16.8	12	10	15.0	10	8	-1.8
14695_14758	14695	14758	7,385	709	17.3	7,128	606	17.1	-257	-103	-0.1
14758_14760	14758	14760	7,367	692	24.2	7,502	593	24.2	135	-100	0.0
14691_14761	14691	14761	1,393	0	17.7	1,438	0	17.6	45	0	-0.1
14758_14761	14758	14761	225	19	18.6	1,040	46	19.0	815	27	0.4
14690_14762	14690	14762	3,655	205	17.1	828	87	17.6	-2,827	-118	0.5
14761_14762	14761	14762	1,525	18	16.7	1,677	27	16.8	152	9	0.1
14761_14763	14761	14763	519	10	20.0	623	13	20.0	104	3	0.0
14763_14765	14763	14765	520	10	13.5	623	13	13.4	103	3	0.0
14764_14765	14764	14765	0	0	25.6	0	0	25.6	0	0	0.0
14764_14766	14764	14766	0	0	20.0	0	0	20.0	0	0	0.0
14697_14767	14697	14767	328	98	17.9	403	69	19.0	75	-29	1.1
14765_14767	14765	14767	0	0	18.6	192	0	18.6	192	0	0.0
14299_14768	14299	14768	37,510	2,813	11.4	37,298	2,835	11.2	-212	21	-0.2
14521_14768	14521	14768	33,791	2,737	5.7	32,909	2,731	5.7	-882	-6	0.1

Road	A node	B node	Without the Proposed Scheme			With the Proposed Scheme			Change in AADT	Change in HDVs	Change in Speed
			AADT	HDVs	Speed (kph) ¹	AADT	HDVs	Speed (kph) ¹			
14521_14769	14521	14769	3,295	402	19.0	3,516	366	18.9	221	-36	-0.1
14709_14769	14709	14769	572	15	22.9	642	26	22.9	70	11	0.0
14744_14769	14744	14769	2,021	91	2.3	2,037	94	2.2	16	3	-0.1
14319_14770	14319	14770	78	0	23.3	93	0	23.3	15	0	0.0
14607_14770	14607	14770	0	0	19.5	0	0	19.5	0	0	0.0
14751_14771	14751	14771	5,494	379	22.5	5,577	402	22.5	83	22	0.0
14770_14771	14770	14771	0	0	17.1	0	0	17.2	0	0	0.1
14329_14772	14329	14772	5,549	422	26.6	5,655	418	26.5	106	-3	0.0
14771_14772	14771	14772	0	0	17.2	0	0	17.2	0	0	0.0
14129_14775	14129	14775	1,810	239	23.1	1,941	248	23.1	131	10	0.0
14766_14775	14766	14775	0	0	12.1	0	0	12.0	0	0	-0.1
14767_14775	14767	14775	186	0	23.2	579	0	23.1	393	0	0.0
14317_14796	14317	14796	5,653	153	28.2	5,648	152	28.2	-5	0	0.0
14368_14796	14368	14796	2,089	71	19.6	1,938	68	19.6	-151	-3	0.0
14529_14797	14529	14797	1,139	57	18.9	1,180	52	18.9	41	-5	0.0
14796_14797	14796	14797	5,843	123	27.7	5,637	124	27.7	-206	1	0.0
14297_14804	14297	14804	579	76	20.5	694	87	20.5	115	11	-0.1
14692_14804	14692	14804	422	55	21.0	422	55	20.9	0	0	-0.1
14565_14830	14565	14830	554	17	20.0	648	17	20.0	94	0	0.0
14130_14902	14130	14902	334	331	30.6	347	343	30.6	13	12	0.0

Road	A node	B node	Without the Proposed Scheme			With the Proposed Scheme			Change in AADT	Change in HDVs	Change in Speed
			AADT	HDVs	Speed (kph) ¹	AADT	HDVs	Speed (kph) ¹			
14251_14902	14251	14902	2,032	307	14.2	2,112	302	14.0	80	-5	-0.1
14709_14903	14709	14903	1,168	107	20.0	1,348	78	20.0	180	-29	0.0
14116_14904	14116	14904	644	25	17.8	653	26	17.8	9	1	0.0
14744_14904	14744	14904	10	0	15.9	10	0	15.9	0	0	0.0
14903_14904	14903	14904	1,168	107	14.0	1,348	78	13.9	180	-29	-0.1
14117_14905	14117	14905	6	6	17.6	5	5	17.6	-1	-1	0.0
14118_14905	14118	14905	40	1	15.8	40	1	15.8	0	0	0.0
14904_14905	14904	14905	790	89	19.1	927	59	19.1	137	-30	0.0
14721_14906	14721	14906	5,413	309	29.3	5,518	326	29.3	105	17	0.0
14905_14906	14905	14906	795	94	19.1	932	63	19.1	137	-30	-0.1
14132_14907	14132	14907	11,256	101	33.0	11,658	93	33.0	402	-8	0.0
14307_14908	14307	14908	5,624	388	22.1	6,535	425	21.0	911	37	-1.0
14310_14908	14310	14908	1,161	109	30.0	1,145	109	30.0	-16	0	0.0
14527_14908	14527	14908	4,495	117	11.8	4,338	182	11.4	-157	65	-0.4
14754_14909	14754	14909	1,092	2	25.0	592	0	25.0	-500	-2	0.0
14909_14910	14909	14910	1,092	2	25.0	592	0	25.0	-500	-2	0.0
14655_14911	14655	14911	5	0	23.8	4	3	10.3	-1	3	-13.5
14656_14911	14656	14911	1,297	0	23.5	1,238	0	8.3	-59	0	-15.1
14910_14911	14910	14911	1,092	2	15.1	592	0	2.8	-500	-2	-12.3
14132_14912	14132	14912	4,981	229	15.1	5,259	231	14.9	278	2	-0.2

Road	A node	B node	Without the Proposed Scheme			With the Proposed Scheme			Change in AADT	Change in HDVs	Change in Speed
			AADT	HDVs	Speed (kph) ¹	AADT	HDVs	Speed (kph) ¹			
14221_14912	14221	14912	7,682	246	22.6	7,046	240	23.1	-636	-6	0.5
14902_14912	14902	14912	1,205	65	23.8	1,268	61	23.9	63	-4	0.1
14704_14952	14704	14952	6,959	320	30.1	6,862	336	30.1	-97	16	0.0
14906_14952	14906	14952	6,575	381	26.9	6,941	375	26.8	366	-7	0.0
14952_14953	14952	14953	58	15	32.0	42	11	32.0	-16	-4	0.0
14136_14954	14136	14954	5,359	456	35.0	0	0	35.0	-5,359	-456	0.0
14236_14954	14236	14954	8,591	404	35.0	0	0	35.0	-8,591	-404	0.0
14212_14965	14212	14965	13,568	773	33.1	13,111	787	33.1	-457	13	0.0
14756_14965	14756	14965	7,039	950	28.0	7,332	1,012	28.0	293	62	0.0
14067_14971	14067	14971	5,584	56	16.9	5,629	6	18.2	45	-50	1.3
14701_14972	14701	14972	0	0	21.4	0	0	21.4	0	0	0.0
14342_15060	14342	15060	8,782	1,150	26.4	8,887	1,146	26.3	105	-4	0.0
14437_15060	14437	15060	171	170	32.0	171	170	32.0	0	0	0.0
14729_15060	14729	15060	4,011	229	24.6	3,983	227	24.6	-28	-2	0.0
14073_15501	14073	15501	1,902	23	23.9	905	22	24.0	-997	-1	0.0
14655_15501	14655	15501	1,589	24	24.5	2,300	30	24.5	711	6	0.0
14722_15501	14722	15501	485	88	24.0	587	28	24.0	102	-60	0.0
14073_15502	14073	15502	1,176	58	19.9	1,809	38	18.8	633	-20	-1.1
15502_15503	15502	15503	930	105	22.5	0	0	22.6	-930	-105	0.2
14972_15504	14972	15504	0	0	20.3	0	0	20.3	0	0	0.0

Road	A node	B node	Without the Proposed Scheme			With the Proposed Scheme			Change in AADT	Change in HDVs	Change in Speed
			AADT	HDVs	Speed (kph) ¹	AADT	HDVs	Speed (kph) ¹			
15503_15504	15503	15504	0	0	18.5	0	0	18.5	0	0	0.0
15502_15505	15502	15505	0	0	25.0	0	0	25.0	0	0	0.0
15504_15505	15504	15505	0	0	25.0	0	0	25.0	0	0	0.0
15502_15507	15502	15507	893	36	21.0	2,000	42	20.7	1,107	6	-0.3
15506_15507	15506	15507	178	0	19.3	0	0	19.2	-178	0	-0.1
14306_15509	14306	15509	1,219	105	16.3	761	23	13.8	-458	-82	-2.5
15507_15509	15507	15509	1,162	38	20.8	2,105	46	20.6	943	8	-0.2
15508_15510	15508	15510	0	0	16.3	0	0	16.5	0	0	0.2
14723_15511	14723	15511	3,567	178	15.9	0	0	14.8	-3,567	-178	-1.1
14971_15511	14971	15511	1,709	56	20.9	6	5	19.8	-1,703	-51	-1.1
14756_15513	14756	15513	0	0	25.0	0	0	25.0	0	0	0.0
15503_15516	15503	15516	0	0	25.0	0	0	25.0	0	0	0.0
15506_15516	15506	15516	0	0	9.1	0	0	9.2	0	0	0.1
15510_15516	15510	15516	1,118	3	17.0	0	0	17.4	-1,118	-3	0.4
14365_15900	14365	15900	2,668	293	18.5	2,684	295	18.5	16	2	0.0
14366_15900	14366	15900	7,863	810	23.2	7,999	840	23.2	136	30	0.0
14108_16000	14108	16000	7,292	620	5.3	7,575	629	5.2	283	9	0.0
14108_16001	14108	16001	4,028	157	12.4	4,119	161	12.3	91	4	-0.1
16000_16045	16000	16045	7,356	633	26.6	7,223	628	26.6	-133	-4	0.1
14107_16142	14107	16142	8,676	998	22.3	8,758	1,007	22.2	82	9	0.0

Road	A node	B node	Without the Proposed Scheme			With the Proposed Scheme			Change in AADT	Change in HDVs	Change in Speed
			AADT	HDVs	Speed (kph) ¹	AADT	HDVs	Speed (kph) ¹			
14110_16177	14110	16177	35,195	2,780	17.8	34,784	2,783	18.0	-411	2	0.2
16177_16180	16177	16180	8,892	809	24.1	8,885	809	24.1	-7	-1	0.0
16177_16251	16177	16251	25,067	1,805	31.4	24,634	1,798	31.4	-433	-7	0.0
16251_16252	16251	16252	25,740	1,828	29.9	25,311	1,822	30.0	-429	-5	0.0
14087_16378	14087	16378	3,535	85	25.0	3,259	81	25.0	-276	-3	0.0
16000_16378	16000	16378	6,095	201	25.0	6,166	210	25.0	71	9	0.0
14109_16387	14109	16387	11,728	1,489	32.0	11,993	1,487	32.0	265	-2	0.0
12149_12055	12149	12055	113	52	20.6	127	63	20.6	14	11	0.0
12454_12049	12454	12049	2,945	100	18.1	3,068	104	18.0	123	4	-0.1
12454_12055	12454	12055	140	1	19.4	115	1	19.4	-25	0	0.0
12501_12499	12501	12499	11,067	1,162	13.1	11,109	1,166	12.4	42	4	-0.7
12871_12501	12871	12501	17,193	1,994	44.9	17,332	1,993	44.9	139	-1	0.0
12917_12508	12917	12508	11,979	431	87.7	12,071	422	87.7	92	-9	0.0
13283_12055	13283	12055	2,259	540	26.5	2,297	547	26.3	38	7	-0.2
12055_12149	12055	12149	341	165	24.1	325	168	24.1	-16	3	0.0
12049_12454	12049	12454	2,052	6	24.4	1,821	5	24.4	-231	-1	0.0
12055_12454	12055	12454	319	0	20.2	483	0	20.2	164	0	-0.1
12447_12518	12447	12518	5,779	1,682	30.0	5,759	1,687	30.0	-20	6	0.0
12460_12518	12460	12518	592	21	17.8	603	21	17.8	11	0	0.0
12501_12870	12501	12870	8,670	338	24.2	8,798	326	24.2	128	-13	0.0

Road	A node	B node	Without the Proposed Scheme			With the Proposed Scheme			Change in AADT	Change in HDVs	Change in Speed
			AADT	HDVs	Speed (kph) ¹	AADT	HDVs	Speed (kph) ¹			
12869_12870	12869	12870	31,265	1,469	60.9	30,711	1,474	61.1	-554	5	0.3
12508_12871	12508	12871	21,834	1,747	27.6	22,071	1,722	27.5	237	-25	-0.1
12505_12874	12505	12874	34,731	1,111	59.5	34,444	1,137	59.7	-287	25	0.2
12518_12916	12518	12916	6,555	1,717	36.0	6,550	1,716	36.0	-5	-1	0.0
12055_13283	12055	13283	3,460	564	26.1	3,420	561	26.1	-40	-3	0.0

CFA001 Construction Traffic Data - Test 2

Table 3: Traffic data used in the construction assessment

Road	A node	B node	Without the Proposed Scheme			With the Proposed Scheme			Change in AADT	Change in HDVs	Change in Speed
			AADT	HDVs	Speed (kph) ¹	AADT	HDVs	Speed (kph) ¹			
12006_12005	12006	12005	532	10	15.3	548	10	15.3	16	0	0.0
12008_12007	12008	12007	1,982	6	17.8	1,764	5	17.7	-218	-1	0.0
12155_12154	12155	12154	2,133	96	14.3	2,098	97	14.3	-35	1	0.0
12176_12175	12176	12175	0	0	18.7	0	0	18.7	0	0	0.0
12178_12177	12178	12177	0	0	15.6	0	0	15.6	0	0	0.0
12194_12193	12194	12193	504	8	12.7	278	83	11.6	-226	75	-1.0
12225_12224	12225	12224	46,676	2,100	6.6	46,350	2,178	6.6	-326	78	0.0
12226_12224	12226	12224	38,973	2,299	11.3	38,155	2,327	11.6	-818	28	0.3
12337_12224	12337	12224	8,690	1,277	1.1	8,772	1,289	1.0	82	12	-0.1
12337_12225	12337	12225	3,118	705	17.4	3,348	797	17.1	230	92	-0.2
12344_12343	12344	12343	5,111	189	24.2	5,120	189	24.2	9	0	0.0
12345_12339	12345	12339	5,557	161	25.0	5,554	161	25.0	-3	0	0.0
12345_12344	12345	12344	5,111	189	20.9	5,120	189	20.9	9	0	0.0
12355_12354	12355	12354	4,532	276	22.0	4,498	252	22.0	-34	-25	0.0
12356_12172	12356	12172	0	0	25.0	1	0	25.0	1	0	0.0
12357_12176	12357	12176	0	0	24.3	0	0	24.3	0	0	0.0
12358_12081	12358	12081	5,542	1,530	6.1	5,764	1,522	6.0	222	-8	-0.1
12359_12081	12359	12081	70	0	7.6	125	0	7.6	55	0	0.0

Road	A node	B node	Without the Proposed Scheme			With the Proposed Scheme			Change in AADT	Change in HDVs	Change in Speed
			AADT	HDVs	Speed (kph) ¹	AADT	HDVs	Speed (kph) ¹			
12359_12174	12359	12174	968	119	25.0	983	119	25.0	15	0	0.0
12360_12179	12360	12179	0	0	21.8	0	0	21.8	0	0	0.0
12362_12361	12362	12361	994	10	22.0	1,004	10	22.0	10	0	0.0
12368_12008	12368	12008	3,749	94	28.5	3,504	91	28.5	-245	-3	0.1
12376_12368	12376	12368	12,684	1,725	35.7	12,595	1,738	35.8	-89	13	0.1
12380_12005	12380	12005	5,424	369	40.6	5,393	367	40.6	-31	-2	0.0
12380_12007	12380	12007	12,228	648	35.8	12,227	672	35.7	-1	24	0.0
12381_12380	12381	12380	8,800	493	21.5	8,909	508	21.4	109	15	-0.1
12387_12005	12387	12005	9,728	496	37.6	9,720	496	37.6	-8	0	0.0
12401_12164	12401	12164	1,620	152	25.0	1,619	152	25.0	-1	0	0.0
12413_12360	12413	12360	0	0	19.1	0	0	19.1	0	0	0.0
12415_12177	12415	12177	1,733	151	23.4	1,800	149	23.4	67	-1	0.0
12416_12415	12416	12415	1,420	129	13.6	1,477	128	13.6	57	-1	0.0
12418_12417	12418	12417	2,040	82	10.4	1,951	82	10.4	-89	0	0.0
12419_12180	12419	12180	0	0	22.7	0	0	22.7	0	0	0.0
12419_12418	12419	12418	0	0	21.6	0	0	21.6	0	0	0.0
12421_12413	12421	12413	3,130	1,315	25.6	3,345	1,325	25.6	215	10	0.0
12422_12418	12422	12418	0	0	19.5	8	0	19.5	8	0	0.0
12422_12421	12422	12421	2,818	1,313	25.7	2,948	1,321	25.6	130	8	0.0
12426_12361	12426	12361	16,229	1,574	28.2	16,114	1,563	28.2	-115	-11	0.0

Road	A node	B node	Without the Proposed Scheme			With the Proposed Scheme			Change in AADT	Change in HDVs	Change in Speed
			AADT	HDVs	Speed (kph) ¹	AADT	HDVs	Speed (kph) ¹			
12454_12368	12454	12368	2,138	4	13.1	2,022	4	13.2	-116	0	0.1
12477_12291	12477	12291	37,343	2,017	11.8	36,700	2,092	11.9	-643	75	0.1
12477_12402	12477	12402	4,216	257	28.8	4,326	260	28.8	110	2	0.0
12478_12476	12478	12476	43,257	2,898	5.6	44,556	3,074	5.2	1,299	176	-0.3
12478_12477	12478	12477	39,502	2,331	3.5	38,947	2,415	3.5	-555	84	0.1
12480_12228	12480	12228	4,677	5	7.3	4,555	9	7.4	-122	4	0.1
12482_12480	12482	12480	4,578	293	20.4	4,546	291	20.5	-32	-2	0.1
12486_12226	12486	12226	34,402	1,927	9.2	33,631	1,951	8.8	-771	24	-0.4
12488_12482	12488	12482	9,691	911	5.9	9,873	898	5.7	182	-13	-0.2
12488_12485	12488	12485	2,534	79	19.2	2,723	95	19.3	189	17	0.1
12492_12223	12492	12223	47,748	2,483	1.8	47,220	2,550	1.8	-528	67	0.0
12496_12492	12496	12492	43,608	2,093	4.6	43,088	2,154	4.7	-520	61	0.1
12498_12488	12498	12488	10,774	927	12.8	11,013	925	12.8	239	-1	-0.1
12499_12426	12499	12426	14,830	1,305	8.3	14,652	1,275	8.2	-178	-30	0.0
12499_12496	12499	12496	459	358	42.5	495	383	42.5	36	25	0.0
12501_12426	12501	12426	565	230	9.1	580	247	8.9	15	17	-0.2
12502_12496	12502	12496	43,123	1,768	53.0	42,564	1,788	53.0	-559	20	0.0
12506_12499	12506	12499	16,330	1,225	3.5	16,140	1,211	3.5	-190	-14	0.0
12512_12154	12512	12154	4,441	644	21.1	4,524	611	21.1	83	-33	0.0
12512_12506	12512	12506	25,111	1,356	13.2	24,959	1,323	13.2	-152	-33	-0.1

Road	A node	B node	Without the Proposed Scheme			With the Proposed Scheme			Change in AADT	Change in HDVs	Change in Speed
			AADT	HDVs	Speed (kph) ¹	AADT	HDVs	Speed (kph) ¹			
12513_12500	12513	12500	5,289	333	5.2	5,457	344	4.6	168	11	-0.6
12519_12512	12519	12512	24,315	1,167	19.4	24,243	1,139	19.4	-72	-28	0.0
12534_12081	12534	12081	3,674	1,547	10.4	3,821	1,548	10.3	147	1	-0.1
12534_12173	12534	12173	0	0	22.6	0	0	22.6	0	0	0.0
12539_12538	12539	12538	2,393	1,546	11.0	2,553	1,547	10.9	160	1	-0.1
12543_12539	12543	12539	2,394	1,547	11.2	2,553	1,547	11.1	159	1	0.0
12565_12488	12565	12488	1,593	64	8.2	1,733	80	7.9	140	16	-0.3
12577_12478	12577	12478	2,054	97	8.6	2,072	95	8.6	18	-1	0.0
12577_12487	12577	12487	3,594	72	19.4	3,463	73	19.3	-131	1	-0.1
12595_12513	12595	12513	2,701	324	23.3	2,959	343	23.3	258	19	0.0
12595_12575	12595	12575	1,199	72	21.7	1,214	81	21.6	15	9	-0.1
12598_12416	12598	12416	2,025	130	19.7	2,055	129	19.8	30	0	0.2
12598_12417	12598	12417	7,758	892	28.5	8,227	897	28.4	469	5	-0.1
12604_12352	12604	12352	3,570	978	27.4	3,133	968	27.5	-437	-10	0.1
12604_12355	12604	12355	5,185	337	20.0	5,156	315	20.0	-29	-23	0.0
12604_12598	12604	12598	7,758	892	28.3	8,227	897	28.2	469	5	-0.1
12633_12341	12633	12341	4,717	175	18.6	4,758	162	18.6	41	-13	0.0
12633_12356	12633	12356	0	0	25.0	1	0	25.0	1	0	0.0
12633_12538	12633	12538	3,034	133	8.5	2,977	125	8.5	-57	-8	0.0
12679_12482	12679	12482	4,456	138	8.0	4,457	143	7.5	1	4	-0.5

Road	A node	B node	Without the Proposed Scheme			With the Proposed Scheme			Change in AADT	Change in HDVs	Change in Speed
			AADT	HDVs	Speed (kph) ¹	AADT	HDVs	Speed (kph) ¹			
12696_12481	12696	12481	12,688	837	15.0	13,230	913	15.0	542	75	0.0
12760_12504	12760	12504	895	39	6.2	939	29	6.2	44	-10	0.0
12760_12519	12760	12519	7,309	570	8.3	7,319	571	8.2	10	1	-0.1
12760_12756	12760	12756	900	24	21.0	1,026	29	21.0	126	4	0.0
12765_12543	12765	12543	2,394	1,547	32.0	2,553	1,547	32.0	159	1	0.0
12773_12595	12773	12595	2,352	247	22.2	2,607	266	22.1	255	19	0.0
12781_12338	12781	12338	4,685	169	23.3	4,753	157	23.3	68	-12	0.0
12781_12341	12781	12341	3,897	35	14.5	3,910	35	14.5	13	0	0.0
12781_12543	12781	12543	851	0	18.6	870	0	18.5	19	0	-0.1
12840_12510	12840	12510	3,592	136	10.0	3,499	126	10.2	-93	-11	0.3
12847_12344	12847	12344	0	0	14.4	0	0	14.4	0	0	0.0
12847_12633	12847	12633	7,750	310	28.7	7,736	286	28.7	-14	-24	0.0
12848_12357	12848	12357	1,733	151	25.2	1,801	149	25.2	68	-1	0.0
12867_12160	12867	12160	689	28	23.0	692	29	23.0	3	1	0.0
12867_12226	12867	12226	4,872	141	9.2	5,180	197	8.9	308	56	-0.3
12870_12502	12870	12502	43,123	1,768	57.6	42,564	1,788	57.9	-559	20	0.2
12902_12226	12902	12226	12,107	2,119	5.1	12,316	2,168	4.8	209	49	-0.2
12903_12224	12903	12224	650	1	5.6	739	1	5.5	89	-1	0.0
12904_12481	12904	12481	7,859	809	27.9	7,195	662	28.0	-664	-148	0.1
12915_12538	12915	12538	1,036	0	12.2	1,023	0	12.2	-13	0	0.0

Road	A node	B node	Without the Proposed Scheme			With the Proposed Scheme			Change in AADT	Change in HDVs	Change in Speed
			AADT	HDVs	Speed (kph) ¹	AADT	HDVs	Speed (kph) ¹			
12915_12840	12915	12840	3,034	133	14.7	2,977	125	14.7	-57	-8	0.0
12916_12512	12916	12512	6,555	1,717	6.2	6,656	1,717	6.2	101	0	0.0
13085_12228	13085	12228	41,820	2,593	3.3	43,315	2,772	2.8	1,495	179	-0.5
13085_12476	13085	12476	39,209	2,313	4.0	38,600	2,393	4.0	-609	80	0.0
13105_12223	13105	12223	51,347	2,105	4.2	52,036	2,186	4.1	689	80	-0.2
13105_13070	13105	13070	35,099	1,895	14.7	34,364	1,924	2.4	-735	29	-12.4
13124_12605	13124	12605	2,250	25	4.0	2,344	28	3.9	94	3	-0.2
13124_12609	13124	12609	2,232	703	9.2	2,112	716	9.2	-120	13	0.0
13186_12223	13186	12223	4,566	174	5.8	4,507	185	5.8	-59	11	0.0
13207_12225	13207	12225	43,472	2,087	7.0	43,184	2,202	7.0	-288	116	0.0
13207_12291	13207	12291	43,740	2,756	6.7	43,550	2,918	6.5	-190	162	-0.3
13207_12401	13207	12401	5	5	20.8	5	5	20.8	0	0	0.0
13245_12007	13245	12007	5,023	623	28.8	4,977	712	28.7	-46	89	0.0
13245_12376	13245	12376	6,152	695	8.7	6,231	710	8.6	79	15	-0.1
13245_12379	13245	12379	463	5	20.2	547	7	20.2	84	2	0.0
13270_12381	13270	12381	20,140	1,511	15.3	20,464	1,535	14.8	324	24	-0.5
13273_12337	13273	12337	1,237	0	7.0	1,286	0	7.0	49	0	0.0
13274_13273	13274	13273	6,537	0	34.4	6,463	0	34.4	-74	0	0.0
13275_12412	13275	12412	5,819	0	10.9	5,916	0	10.6	97	0	-0.2
13275_13272	13275	13272	1,319	0	25.0	1,302	0	25.0	-17	0	0.0

Road	A node	B node	Without the Proposed Scheme			With the Proposed Scheme			Change in AADT	Change in HDVs	Change in Speed
			AADT	HDVs	Speed (kph) ¹	AADT	HDVs	Speed (kph) ¹			
13275_13273	13275	13273	2,620	0	24.7	4,012	0	24.7	1,392	0	0.0
13277_12370	13277	12370	6,447	426	8.1	6,090	378	8.4	-357	-48	0.2
13277_12425	13277	12425	997	273	20.7	1,001	273	20.7	4	0	0.1
13278_12337	13278	12337	12,208	2,039	4.4	12,483	2,172	4.1	275	133	-0.4
13278_12370	13278	12370	650	1	3.3	739	1	3.4	89	-1	0.0
13279_12370	13279	12370	8,285	1,591	5.2	8,119	1,616	5.2	-166	25	0.0
13279_12867	13279	12867	4,872	141	12.0	5,180	197	11.9	308	56	-0.1
13287_12004	13287	12004	0	0	22.3	0	0	22.3	0	0	0.0
13287_12381	13287	12381	11,923	1,478	26.2	12,184	1,486	26.0	261	8	-0.2
13287_12389	13287	12389	10,123	1,387	18.8	10,252	1,394	18.7	129	7	-0.1
13288_12399	13288	12399	437	0	24.7	396	0	24.7	-41	0	0.0
13288_13274	13288	13274	6,537	0	23.1	6,462	0	23.1	-75	0	0.0
13293_12412	13293	12412	15,183	1,655	26.4	17,154	1,921	26.6	1,971	266	0.3
13333_12291	13333	12291	862	0	5.7	1,776	0	5.5	914	0	-0.2
13333_13288	13333	13288	2,143	0	4.7	2,010	0	4.7	-133	0	0.0
13335_12223	13335	12223	2,941	18	13.0	3,066	18	13.0	125	1	0.0
13335_12426	13335	12426	903	191	10.2	929	187	10.1	26	-5	-0.1
13337_12055	13337	12055	3,668	631	21.8	3,711	631	21.8	43	0	0.0
13337_12376	13337	12376	11,652	1,398	7.2	11,798	1,498	7.3	146	100	0.0
13337_13271	13337	13271	13,343	894	8.9	13,514	892	8.9	171	-2	-0.1

Road	A node	B node	Without the Proposed Scheme			With the Proposed Scheme			Change in AADT	Change in HDVs	Change in Speed
			AADT	HDVs	Speed (kph) ¹	AADT	HDVs	Speed (kph) ¹			
13338_12008	13338	12008	1,136	18	24.3	1,177	19	24.3	41	1	0.0
13338_12380	13338	12380	8,997	765	17.0	8,930	750	17.0	-67	-15	0.1
13340_12370	13340	12370	11,769	1,659	14.6	12,017	1,911	14.4	248	251	-0.3
13340_12412	13340	12412	11,954	1,279	29.8	11,059	1,305	29.9	-895	26	0.1
13352_12492	13352	12492	7,019	667	2.2	6,970	627	2.2	-49	-40	0.0
13352_12504	13352	12504	5,819	512	5.3	5,856	521	5.3	37	9	0.0
13353_13105	13353	13105	1,441	143	4.6	1,442	123	4.7	1	-20	0.0
13354_13353	13354	13353	4,812	159	18.0	4,784	139	17.9	-28	-20	-0.1
13355_13354	13355	13354	4,812	159	20.5	4,784	139	20.5	-28	-20	0.0
13356_12486	13356	12486	0	0	7.2	0	0	7.2	0	0	0.0
13356_12513	13356	12513	1,958	206	15.3	2,010	209	15.2	52	3	-0.2
13356_13355	13356	13355	6,211	279	18.3	6,167	259	18.1	-44	-20	-0.2
13357_12486	13357	12486	35,326	2,014	11.1	34,590	2,075	11.2	-736	62	0.1
13357_13070	13357	13070	45,503	1,911	19.4	45,349	1,995	19.3	-154	84	-0.1
13358_12679	13358	12679	1,083	268	8.7	946	263	8.8	-137	-5	0.0
13358_13085	13358	13085	0	0	14.5	0	0	14.6	0	0	0.0
13387_12159	13387	12159	2,615	73	24.6	3,993	72	24.6	1,378	-1	0.0
13387_13272	13387	13272	672	0	37.0	971	0	37.0	299	0	0.0
13390_12193	13390	12193	11,176	458	24.3	8,967	439	25.4	-2,209	-19	1.1
13391_12228	13391	12228	0	0	8.2	0	0	8.2	0	0	0.0

Road	A node	B node	Without the Proposed Scheme			With the Proposed Scheme			Change in AADT	Change in HDVs	Change in Speed
			AADT	HDVs	Speed (kph) ¹	AADT	HDVs	Speed (kph) ¹			
13391_13288	13391	13288	3,983	0	16.6	4,022	0	16.6	39	0	0.0
13431_12534	13431	12534	3,679	1,549	25.4	3,821	1,548	25.4	142	-1	0.0
13431_12538	13431	12538	7,022	1,538	11.6	7,366	1,539	11.3	344	2	-0.2
13431_12840	13431	12840	588	0	24.1	549	0	24.1	-39	0	0.0
13478_12500	13478	12500	2,412	7	1.0	2,474	7	1.0	62	0	0.0
13478_12902	13478	12902	12,108	2,119	33.0	12,316	2,168	33.0	208	49	0.0
13480_12493	13480	12493	8,209	1,658	5.9	8,422	1,710	5.8	213	51	-0.2
13480_12903	13480	12903	650	1	31.9	740	1	31.9	90	-1	0.0
13480_13478	13480	13478	2,430	275	7.7	2,361	290	7.8	-69	16	0.1
13481_12401	13481	12401	10,953	460	25.4	11,387	490	25.3	434	30	-0.1
13481_12491	13481	12491	3,617	340	29.5	3,626	330	29.5	9	-10	0.0
13482_13390	13482	13390	11,176	458	38.0	8,967	439	38.0	-2,209	-19	0.0
13483_13270	13483	13270	26,598	1,729	16.7	26,003	1,742	17.6	-595	13	0.9
13483_13293	13483	13293	15,183	1,655	40.0	17,154	1,921	40.0	1,971	266	0.0
13992_12511	13992	12511	3,654	33	13.1	4,059	37	12.9	405	4	-0.1
13992_13186	13992	13186	4,567	174	25.0	4,506	185	25.0	-61	11	0.0
13992_13352	13992	13352	1,833	27	19.0	1,859	26	19.0	26	-1	0.0
13992_13353	13992	13353	1,396	3	22.9	1,473	3	22.9	77	0	0.0
14004_12228	14004	12228	38,985	2,339	10.9	38,423	2,382	11.0	-562	43	0.0
14004_12480	14004	12480	7,516	38	32.2	7,428	45	32.2	-88	7	0.0

Road	A node	B node	Without the Proposed Scheme			With the Proposed Scheme			Change in AADT	Change in HDVs	Change in Speed
			AADT	HDVs	Speed (kph) ¹	AADT	HDVs	Speed (kph) ¹			
14073_14065	14073	14065	11,553	878	34.0	10,750	1,000	34.0	-803	122	0.0
14116_14114	14116	14114	1,093	43	25.0	1,089	42	25.0	-4	0	0.0
14117_14116	14117	14116	640	18	16.3	594	17	16.3	-46	-1	0.0
14144_14142	14144	14142	544	32	9.9	552	38	9.9	8	6	0.0
14211_14136	14211	14136	11,027	232	7.0	9,552	296	5.0	-1,475	65	-1.9
14212_14129	14212	14129	7,489	944	27.7	8,552	983	23.7	1,063	40	-4.0
14219_14211	14219	14211	4,532	0	15.8	5,624	0	15.0	1,092	0	-0.8
14221_14130	14221	14130	8,223	1,669	10.7	8,557	1,694	10.8	334	25	0.1
14222_14138	14222	14138	5,906	791	12.3	5,263	763	12.5	-643	-28	0.1
14222_14142	14222	14142	406	32	5.8	600	37	5.4	194	5	-0.4
14235_12399	14235	12399	341	0	22.9	350	0	22.9	9	0	0.0
14235_14219	14235	14219	2,338	0	23.0	2,380	0	23.0	42	0	0.0
14253_14129	14253	14129	13,880	750	32.4	16,587	780	32.3	2,707	30	-0.1
14284_12904	14284	12904	7,225	766	11.3	6,562	610	11.0	-663	-156	-0.3
14288_12417	14288	12417	9,464	1,439	29.3	9,158	1,410	29.3	-306	-28	0.0
14288_12422	14288	12422	3,500	1,327	20.7	3,643	1,337	20.7	143	10	0.0
14288_13124	14288	13124	4,596	726	30.3	4,595	740	30.3	-1	14	0.0
14293_14109	14293	14109	37,067	4,411	11.7	37,800	4,460	11.5	733	49	-0.1
14294_14069	14294	14069	33,685	2,762	5.1	34,136	2,799	4.9	451	37	-0.2
14294_14070	14294	14070	38,663	3,557	5.1	38,367	3,568	5.2	-296	11	0.1

Road	A node	B node	Without the Proposed Scheme			With the Proposed Scheme			Change in AADT	Change in HDVs	Change in Speed
			AADT	HDVs	Speed (kph) ¹	AADT	HDVs	Speed (kph) ¹			
14295_14293	14295	14293	25,172	2,190	4.2	25,939	2,257	4.1	767	67	0.0
14296_14099	14296	14099	6,254	356	2.7	6,990	370	2.2	736	14	-0.4
14297_14069	14297	14069	1,117	56	4.7	1,400	56	4.6	283	0	-0.1
14299_14069	14299	14069	33,867	2,743	4.2	34,977	2,798	4.2	1,110	55	0.0
14300_14295	14300	14295	6,463	1,215	5.1	7,067	1,237	5.1	604	22	-0.1
14301_14099	14301	14099	2,862	441	10.9	3,730	444	9.4	868	3	-1.4
14303_14067	14303	14067	34,425	2,306	1.0	36,431	2,368	0.9	2,006	62	0.0
14303_14301	14303	14301	36,289	2,032	1.4	38,611	2,124	0.8	2,322	91	-0.6
14306_14305	14306	14305	3,343	1,367	21.4	5,158	1,336	21.4	1,815	-31	0.0
14308_14065	14308	14065	7,798	1,068	27.0	7,969	1,124	27.0	171	55	0.0
14312_14308	14312	14308	9,531	1,735	3.1	9,565	1,712	3.2	34	-23	0.1
14313_14305	14313	14305	33,768	1,520	31.1	34,098	1,671	31.0	330	151	-0.1
14314_14283	14314	14283	8,698	496	6.1	10,736	505	6.2	2,038	9	0.2
14315_14283	14315	14283	49,197	2,361	2.3	49,623	2,481	2.4	426	120	0.1
14316_14310	14316	14310	1,333	271	21.1	1,899	387	16.6	566	117	-4.6
14318_14311	14318	14311	5,518	99	13.6	5,568	72	13.6	50	-27	0.0
14320_14292	14320	14292	6,116	141	22.8	6,807	150	22.6	691	9	-0.1
14321_14318	14321	14318	8,046	145	24.0	8,032	120	24.0	-14	-24	0.0
14322_14321	14322	14321	2,539	0	29.3	2,463	0	29.3	-76	0	0.0
14323_14319	14323	14319	1,598	1,552	4.5	1,595	1,550	4.5	-3	-1	0.0

Road	A node	B node	Without the Proposed Scheme			With the Proposed Scheme			Change in AADT	Change in HDVs	Change in Speed
			AADT	HDVs	Speed (kph) ¹	AADT	HDVs	Speed (kph) ¹			
14324_14309	14324	14309	17,383	1,825	2.4	18,090	1,899	2.4	707	74	-0.1
14325_14316	14325	14316	1,333	271	12.5	1,555	342	12.4	222	72	-0.1
14326_14324	14326	14324	7,089	744	5.3	7,283	787	5.1	194	42	-0.2
14329_14323	14329	14323	1,598	1,552	6.6	1,595	1,550	6.6	-3	-1	0.0
14333_14329	14333	14329	9,165	2,117	24.9	9,551	2,120	24.8	386	3	-0.1
14334_14325	14334	14325	2,831	433	1.4	2,881	432	1.4	50	-1	0.0
14336_14280	14336	14280	2,106	137	25.6	1,768	103	25.7	-338	-34	0.1
14336_14335	14336	14335	5,876	729	24.1	5,344	721	24.2	-532	-7	0.1
14338_14334	14338	14334	2,806	432	8.0	2,881	432	8.0	75	0	0.0
14340_14281	14340	14281	6,809	279	21.9	6,674	267	21.9	-135	-12	0.0
14343_14292	14343	14292	8,176	319	22.2	7,040	317	22.0	-1,136	-2	-0.2
14343_14309	14343	14309	3,639	66	6.5	3,441	65	6.3	-198	0	-0.2
14343_14326	14343	14326	5,140	164	18.8	3,958	139	18.9	-1,182	-26	0.1
14344_14340	14344	14340	19,939	2,572	13.6	19,267	2,601	13.8	-672	29	0.2
14353_14344	14353	14344	11,810	1,901	9.4	11,435	1,921	9.5	-375	20	0.1
14358_12358	14358	12358	5,542	1,530	30.8	5,764	1,522	30.7	222	-8	0.0
14363_14302	14363	14302	5,991	869	17.0	6,117	875	16.9	126	6	-0.1
14364_14297	14364	14297	1,246	66	30.4	1,959	65	30.3	713	-1	-0.1
14364_14304	14364	14304	3,584	125	11.1	4,476	125	10.1	892	0	-1.0
14365_14282	14365	14282	7,994	576	10.6	7,871	630	11.0	-123	54	0.4

Road	A node	B node	Without the Proposed Scheme			With the Proposed Scheme			Change in AADT	Change in HDVs	Change in Speed
			AADT	HDVs	Speed (kph) ¹	AADT	HDVs	Speed (kph) ¹			
14365_14336	14365	14336	1,975	245	13.8	1,701	238	13.8	-274	-7	0.1
14368_14304	14368	14304	1,899	99	10.2	2,430	104	9.9	531	6	-0.4
14369_14319	14369	14319	5,890	683	8.6	6,260	795	8.7	370	112	0.1
14370_14333	14370	14333	5,515	419	11.2	5,799	423	11.0	284	4	-0.1
14371_14290	14371	14290	7,068	269	6.1	7,226	275	5.3	158	6	-0.8
14371_14291	14371	14291	5,467	323	14.5	6,081	328	13.8	614	6	-0.7
14372_14335	14372	14335	4,241	98	15.8	4,258	102	15.9	17	5	0.2
14373_14326	14373	14326	9,999	930	24.4	9,483	929	24.5	-516	-1	0.2
14373_14335	14373	14335	3,774	166	28.0	3,201	138	28.0	-573	-28	0.0
14378_14347	14378	14347	2,243	103	2.9	2,272	105	2.8	29	1	0.0
14381_14288	14381	14288	7,840	1,207	10.9	7,485	1,220	11.0	-355	13	0.1
14382_14280	14382	14280	2,769	78	20.0	3,012	63	19.9	243	-14	-0.1
14382_14281	14382	14281	609	72	21.5	595	71	21.5	-14	-1	0.0
14382_14282	14382	14282	4,659	294	18.9	4,072	289	19.0	-587	-4	0.1
14388_14004	14388	14004	44,565	2,362	7.9	43,798	2,409	7.9	-767	47	0.0
14388_14112	14388	14112	13,007	598	31.0	15,656	689	30.8	2,649	91	-0.1
14388_14283	14388	14283	40,289	2,659	3.7	40,656	2,724	3.6	367	65	-0.1
14393_14067	14393	14067	37,125	2,896	2.9	39,159	3,015	5.7	2,034	119	2.7
14393_14305	14393	14305	38,931	2,531	24.3	39,968	2,398	24.2	1,037	-132	0.0
14418_14070	14418	14070	29,774	3,007	7.2	30,355	3,066	7.0	581	59	-0.2

Road	A node	B node	Without the Proposed Scheme			With the Proposed Scheme			Change in AADT	Change in HDVs	Change in Speed
			AADT	HDVs	Speed (kph) ¹	AADT	HDVs	Speed (kph) ¹			
14418_14109	14418	14109	38,222	3,516	10.9	38,008	3,535	11.1	-214	18	0.2
14436_14342	14436	14342	17,697	2,761	1.9	17,548	2,755	2.0	-149	-6	0.1
14436_14344	14436	14344	171	170	4.4	171	170	4.4	0	0	0.0
14437_14337	14437	14337	13,744	1,443	4.0	13,763	1,459	4.0	19	16	0.0
14438_14055	14438	14055	19,258	2,735	26.1	19,142	2,737	26.1	-116	3	0.0
14448_14281	14448	14281	990	0	19.0	929	0	19.0	-61	0	0.1
14448_14344	14448	14344	20,952	2,368	5.5	21,096	2,447	5.5	144	80	0.0
14449_14347	14449	14347	19,899	2,268	12.7	19,939	2,333	12.6	40	64	0.0
14450_14347	14450	14347	171	170	9.2	171	170	9.2	0	0	0.0
14450_14448	14450	14448	22,143	2,369	23.7	22,214	2,444	23.7	71	74	0.0
14451_14449	14451	14449	8,236	1,540	28.8	8,378	1,533	28.7	142	-7	0.0
14491_14324	14491	14324	10,199	877	1.4	9,147	878	1.4	-1,052	1	0.0
14491_14327	14491	14327	12,629	2,804	8.5	11,539	2,700	8.6	-1,090	-104	0.1
14493_14327	14493	14327	1,928	603	4.0	2,554	610	3.9	626	7	0.0
14505_14293	14505	14293	11,886	2,116	0.8	11,849	2,097	0.8	-37	-18	0.0
14522_12413	14522	12413	720	699	32.0	721	696	32.0	1	-3	0.0
14525_14099	14525	14099	2,779	386	4.7	3,251	436	3.6	472	49	-1.0
14526_14301	14526	14301	34,653	2,322	5.6	35,773	2,325	5.3	1,120	3	-0.4
14526_14521	14526	14521	32,176	2,960	25.6	33,980	3,024	25.4	1,804	64	-0.3
14526_14525	14526	14525	2,779	386	32.0	3,251	436	32.0	472	49	0.0

Road	A node	B node	Without the Proposed Scheme			With the Proposed Scheme			Change in AADT	Change in HDVs	Change in Speed
			AADT	HDVs	Speed (kph) ¹	AADT	HDVs	Speed (kph) ¹			
14527_14067	14527	14067	6,261	225	2.0	2,543	0	3.7	-3,718	-225	1.8
14527_14320	14527	14320	1,681	37	21.3	559	21	20.7	-1,122	-16	-0.6
14528_14343	14528	14343	3,515	134	10.4	2,395	98	12.2	-1,120	-35	1.8
14529_14321	14529	14321	5,530	122	17.0	5,594	101	17.0	64	-21	0.0
14531_14308	14531	14308	8,040	1,190	9.2	11,014	1,212	8.5	2,974	22	-0.7
14532_14334	14532	14334	6,591	501	2.9	6,786	509	2.5	195	8	-0.3
14533_14289	14533	14289	2,452	51	18.8	2,810	65	18.8	358	13	0.0
14543_14301	14543	14301	8,819	1,596	1.0	11,511	1,669	0.7	2,692	73	-0.2
14543_14309	14543	14309	12,241	1,885	2.0	11,333	1,632	1.8	-908	-253	-0.2
14544_14304	14544	14304	1,548	73	12.0	1,214	92	11.9	-334	20	-0.1
14544_14309	14544	14309	3,858	239	10.0	3,484	254	10.6	-374	15	0.6
14545_14317	14545	14317	4,426	115	24.5	4,205	93	24.4	-221	-23	-0.1
14547_14381	14547	14381	7,840	1,207	32.0	7,485	1,220	32.0	-355	13	0.0
14548_14333	14548	14333	1,607	1,588	1.5	1,607	1,586	1.5	0	-2	0.0
14548_14532	14548	14532	6,591	501	25.0	6,786	509	25.0	195	8	0.0
14549_14284	14549	14284	10,943	788	17.6	11,058	686	18.0	115	-102	0.4
14550_14315	14550	14315	0	0	9.9	0	0	9.8	0	0	-0.1
14550_14533	14550	14533	2,452	51	25.0	2,810	65	25.0	358	13	0.0
14551_14306	14551	14306	3,450	1,432	22.4	3,284	1,300	22.4	-166	-131	0.0
14552_14307	14552	14307	7,530	708	16.3	9,421	754	15.6	1,891	46	-0.7

Road	A node	B node	Without the Proposed Scheme			With the Proposed Scheme			Change in AADT	Change in HDVs	Change in Speed
			AADT	HDVs	Speed (kph) [±]	AADT	HDVs	Speed (kph) [±]			
14552_14312	14552	14312	2,511	1,175	1.8	3,087	1,290	1.2	576	115	-0.5
14553_14312	14553	14312	8,971	2,171	0.6	8,992	2,140	0.5	21	-31	0.0
14553_14319	14553	14319	1,038	998	1.2	1,042	996	1.2	4	-1	0.0
14565_14313	14565	14313	41,749	2,714	42.1	45,110	2,887	41.8	3,361	173	-0.3
14565_14315	14565	14315	49,197	2,361	17.5	49,623	2,481	17.3	426	120	-0.3
14571_14099	14571	14099	1,441	1,386	4.3	1,438	1,383	4.3	-3	-3	0.0
14571_14303	14571	14303	372	372	4.9	372	372	4.9	0	0	0.0
14572_14320	14572	14320	8,142	391	23.1	9,037	298	23.1	895	-93	0.0
14572_14325	14572	14325	3,779	265	2.3	3,788	261	1.9	9	-3	-0.4
14573_14341	14573	14341	0	0	6.8	0	0	6.7	0	0	0.0
14573_14372	14573	14372	4,241	98	30.0	4,258	102	30.0	17	5	0.0
14574_14528	14574	14528	5,182	285	24.6	5,132	349	24.5	-50	64	-0.1
14580_14280	14580	14280	3,214	730	24.7	2,962	735	24.7	-252	5	0.0
14580_14340	14580	14340	18,950	2,786	20.5	17,964	2,641	20.6	-986	-145	0.1
14580_14493	14580	14493	1,927	603	31.0	2,554	610	31.0	627	7	0.0
14608_14070	14608	14070	3,072	34	5.8	3,090	34	5.8	18	0	0.0
14609_14296	14609	14296	6,232	349	25.9	6,957	348	25.9	725	-1	-0.1
14612_14300	14612	14300	203	3	21.0	196	3	21.0	-7	0	-0.1
14614_14236	14614	14236	4,995	250	12.7	333	139	13.6	-4,662	-111	0.9
14614_14250	14614	14250	11,951	621	14.9	12,167	596	14.5	216	-25	-0.5

Road	A node	B node	Without the Proposed Scheme			With the Proposed Scheme			Change in AADT	Change in HDVs	Change in Speed
			AADT	HDVs	Speed (kph) ¹	AADT	HDVs	Speed (kph) ¹			
14615_14612	14615	14612	1,787	200	17.3	1,781	201	17.3	-6	1	0.0
14616_14295	14616	14295	0	0	6.2	0	0	6.2	0	0	0.0
14617_14294	14617	14294	1,628	2	13.2	1,634	2	12.6	6	0	-0.6
14618_14616	14618	14616	1,628	2	23.3	1,634	2	23.3	6	0	0.0
14619_14618	14619	14618	1,628	2	17.3	1,634	2	17.3	6	0	0.0
14621_14300	14621	14300	2,979	679	24.8	3,465	693	24.7	486	14	-0.1
14621_14302	14621	14302	2,926	714	9.9	2,901	711	9.9	-25	-3	0.1
14622_14612	14622	14612	792	57	24.3	769	56	24.3	-23	-1	0.0
14622_14621	14622	14621	1,922	211	18.3	1,971	219	18.2	49	7	-0.1
14623_14302	14623	14302	1,927	83	8.4	1,880	98	8.4	-47	15	0.0
14623_14304	14623	14304	3,335	263	16.4	3,071	264	16.6	-264	1	0.1
14623_14622	14623	14622	1,129	70	18.1	1,153	77	18.0	24	7	0.0
14624_14295	14624	14295	17,444	715	9.3	17,454	768	9.2	10	53	-0.1
14625_14300	14625	14300	3,984	841	19.8	4,089	855	19.7	105	14	-0.1
14625_14624	14625	14624	0	0	12.6	0	0	12.6	0	0	0.0
14627_14250	14627	14250	11,868	427	25.3	8,105	389	17.8	-3,763	-38	-7.5
14628_14253	14628	14253	1,179	851	15.9	2,153	838	15.1	974	-14	-0.9
14648_14211	14648	14211	5,773	231	20.4	5,149	299	20.7	-624	68	0.3
14650_14136	14650	14136	5,477	444	4.4	4,157	420	2.6	-1,320	-24	-1.8
14650_14137	14650	14137	7,993	312	7.5	7,254	319	7.7	-739	7	0.2

Road	A node	B node	Without the Proposed Scheme			With the Proposed Scheme			Change in AADT	Change in HDVs	Change in Speed
			AADT	HDVs	Speed (kph) ¹	AADT	HDVs	Speed (kph) ¹			
14651_14132	14651	14132	7,465	209	12.6	7,941	199	12.4	476	-10	-0.1
14652_14651	14652	14651	0	0	9.3	0	0	9.3	0	0	0.0
14654_14212	14654	14212	1,688	10	12.8	0	0	8.0	-1,688	-10	-4.9
14656_14113	14656	14113	5,786	226	32.0	4,865	126	32.0	-921	-99	0.0
14656_14648	14656	14648	5,772	231	32.0	5,149	299	32.0	-623	68	0.0
14674_14673	14674	14673	0	0	14.7	0	0	14.7	0	0	0.0
14679_14131	14679	14131	10,380	841	23.0	8,923	901	23.2	-1,457	60	0.1
14680_14129	14680	14129	0	0	0.0	0	0	0.0	0	0	0.0
14680_14628	14680	14628	1,179	851	22.0	2,153	838	22.0	974	-14	0.0
14692_14544	14692	14544	559	95	10.5	624	155	10.3	65	60	-0.2
14692_14673	14692	14673	0	0	23.8	0	0	23.8	0	0	0.0
14695_14691	14695	14691	940	1	21.6	196	2	24.2	-744	1	2.6
14695_14693	14695	14693	16	8	13.4	83	7	13.4	67	-1	0.0
14696_14679	14696	14679	10,380	841	19.4	8,924	901	19.8	-1,456	61	0.4
14697_14691	14697	14691	692	8	23.7	946	64	23.6	254	56	0.0
14697_14696	14697	14696	2,742	14	16.8	265	8	17.0	-2,477	-6	0.2
14698_14221	14698	14221	9,577	1,619	20.3	9,233	1,634	20.3	-344	16	0.0
14698_14651	14698	14651	1,960	82	6.5	1,947	171	6.3	-13	89	-0.2
14699_14138	14699	14138	11,448	1,511	7.1	11,642	1,490	7.1	194	-21	0.0
14699_14698	14699	14698	4,807	72	17.3	3,623	152	17.2	-1,184	80	0.0

Road	A node	B node	Without the Proposed Scheme			With the Proposed Scheme			Change in AADT	Change in HDVs	Change in Speed
			AADT	HDVs	Speed (kph) ²	AADT	HDVs	Speed (kph) ²			
14700_14222	14700	14222	11,062	2,400	25.7	11,779	2,403	25.7	717	2	0.0
14701_14073	14701	14073	11,166	871	3.9	11,498	977	3.8	332	106	-0.1
14701_14115	14701	14115	8,586	919	15.6	8,243	940	19.5	-343	21	4.0
14701_14655	14701	14655	1,949	27	15.7	2,923	111	14.9	974	84	-0.8
14704_14117	14704	14117	640	18	18.8	594	17	18.8	-46	-1	0.0
14704_14251	14704	14251	7,412	400	6.9	8,846	416	5.7	1,434	16	-1.2
14705_14692	14705	14692	795	85	14.8	795	85	14.9	0	0	0.1
14707_14488	14707	14488	1,843	144	14.7	1,866	164	14.6	23	20	-0.1
14707_14706	14707	14706	1,147	11	25.0	1,086	10	25.0	-61	-2	0.0
14708_14545	14708	14545	3,471	31	22.9	3,247	13	23.0	-224	-18	0.0
14708_14707	14708	14707	376	110	22.5	402	131	22.4	26	21	0.0
14709_14299	14709	14299	0	0	12.3	0	0	12.3	0	0	0.0
14711_14545	14711	14545	768	77	28.4	792	83	28.4	24	6	0.0
14712_14327	14712	14327	6,286	214	15.4	5,720	212	15.9	-566	-2	0.5
14713_14711	14713	14711	0	0	13.3	0	0	13.4	0	0	0.0
14713_14712	14713	14712	329	32	12.5	499	32	12.6	170	0	0.1
14714_14069	14714	14069	8,084	728	1.5	8,199	763	1.5	115	35	0.0
14714_14087	14714	14087	2,156	39	15.7	1,917	48	15.7	-239	9	0.0
14714_14604	14714	14604	6,293	283	41.0	6,466	297	41.0	173	14	0.0
14715_14322	14715	14322	2,568	0	16.5	2,484	0	16.5	-84	0	0.0

Road	A node	B node	Without the Proposed Scheme			With the Proposed Scheme			Change in AADT	Change in HDVs	Change in Speed
			AADT	HDVs	Speed (kph) ¹	AADT	HDVs	Speed (kph) ¹			
14715_14713	14715	14713	298	0	21.6	468	0	21.6	170	0	0.0
14716_14132	14716	14132	8,841	203	13.5	9,167	211	13.4	326	7	-0.1
14720_14318	14720	14318	4,117	136	21.8	4,188	134	21.9	71	-2	0.0
14720_14719	14720	14719	7,351	213	23.0	7,339	213	23.0	-12	0	0.0
14721_14118	14721	14118	4	0	18.6	23	2	18.6	19	2	0.0
14721_14609	14721	14609	6,231	349	25.3	6,604	350	24.6	373	1	-0.7
14722_14112	14722	14112	6,944	271	20.0	7,829	211	19.1	885	-59	-0.9
14722_14113	14722	14113	7,822	235	32.0	8,554	299	32.0	732	65	0.0
14724_14115	14724	14115	815	54	5.7	21	20	5.3	-794	-34	-0.4
14725_14723	14725	14723	2,438	51	24.3	0	0	24.4	-2,438	-51	0.0
14725_14724	14725	14724	815	54	25.0	0	0	25.0	-815	-54	0.0
14726_13391	14726	13391	337	0	24.2	427	0	24.2	90	0	0.0
14726_14004	14726	14004	4,150	66	6.4	4,431	66	5.8	281	0	-0.6
14726_14235	14726	14235	2,974	0	24.6	3,044	0	24.6	70	0	0.0
14729_14720	14729	14720	3,162	101	22.3	3,254	101	22.3	92	0	0.0
14731_14055	14731	14055	0	0	19.8	0	0	19.8	0	0	0.0
14736_12193	14736	12193	12,806	512	38.8	13,052	496	38.9	246	-16	0.1
14736_13387	14736	13387	1,468	72	19.4	2,971	71	19.2	1,503	-1	-0.2
14736_14613	14736	14613	3,524	137	25.0	3,783	159	25.0	259	21	-0.1
14736_14627	14736	14627	11,868	427	38.0	8,105	389	38.0	-3,763	-38	0.0

Road	A node	B node	Without the Proposed Scheme			With the Proposed Scheme			Change in AADT	Change in HDVs	Change in Speed
			AADT	HDVs	Speed (kph) ¹	AADT	HDVs	Speed (kph) ¹			
14737_12159	14737	12159	1,539	0	23.1	1,840	0	23.3	301	0	0.2
14737_14219	14737	14219	2,612	47	24.3	3,826	50	24.2	1,214	3	-0.1
14744_14118	14744	14118	2,091	270	19.1	2,503	268	19.0	412	-2	0.0
14746_14316	14746	14316	1,022	27	2.2	1,016	81	2.1	-6	55	-0.1
14746_14369	14746	14369	1,443	242	17.1	1,491	242	17.2	48	-1	0.1
14746_14370	14746	14370	0	0	20.9	0	0	20.9	0	0	0.0
14748_14292	14748	14292	1,521	56	20.9	1,214	51	20.8	-307	-5	-0.1
14748_14527	14748	14527	3,461	97	13.9	2,883	63	15.4	-578	-33	1.5
14748_14528	14748	14528	3,048	64	15.3	1,438	37	15.8	-1,610	-27	0.5
14751_14371	14751	14371	3,139	78	17.7	3,552	82	17.5	413	3	-0.2
14752_14751	14752	14751	78	0	16.8	231	0	16.8	153	0	-0.1
14753_14654	14753	14654	1,853	41	24.4	15	14	24.9	-1,838	-27	0.5
14753_14690	14753	14690	442	152	21.9	4	4	22.5	-438	-148	0.6
14754_14753	14754	14753	0	0	18.3	0	0	18.4	0	0	0.1
14755_14654	14755	14654	92	86	26.3	81	74	25.7	-11	-12	-0.6
14755_14655	14755	14655	1,340	40	12.9	1,220	95	12.9	-120	55	-0.1
14755_14754	14755	14754	1,256	35	13.0	1,900	82	12.7	644	47	-0.3
14756_14115	14756	14115	13,583	761	14.6	13,915	807	12.3	332	46	-2.3
14756_14755	14756	14755	650	26	17.0	619	43	16.9	-31	17	-0.1
14759_14758	14759	14758	209	3	19.3	906	18	19.3	697	15	0.0

Road	A node	B node	Without the Proposed Scheme			With the Proposed Scheme			Change in AADT	Change in HDVs	Change in Speed
			AADT	HDVs	Speed (kph) ¹	AADT	HDVs	Speed (kph) ¹			
14760_14137	14760	14137	10,360	1,285	6.2	9,413	1,045	6.0	-947	-240	-0.2
14761_14691	14761	14691	2,719	14	18.2	234	7	18.5	-2,485	-7	0.3
14761_14758	14761	14758	0	0	17.7	1,555	316	17.6	1,555	316	-0.1
14762_14690	14762	14690	1,352	18	17.7	0	0	18.0	-1,352	-18	0.4
14762_14760	14762	14760	2,386	489	21.2	5	5	21.4	-2,381	-484	0.2
14762_14761	14762	14761	3,144	22	16.7	0	0	16.8	-3,144	-22	0.1
14763_14761	14763	14761	0	0	16.9	979	259	18.9	979	259	2.0
14764_14762	14764	14762	1,787	327	19.1	5	5	19.1	-1,782	-322	0.0
14765_14763	14765	14763	0	0	20.0	979	259	20.0	979	259	0.0
14765_14764	14765	14764	1,454	87	15.0	0	0	16.1	-1,454	-87	1.1
14766_14764	14766	14764	335	238	19.2	5	5	19.2	-330	-233	-0.1
14767_14697	14767	14697	6	0	24.4	6	0	24.4	0	0	0.0
14767_14765	14767	14765	908	73	26.3	660	218	18.6	-248	145	-7.7
14768_14299	14768	14299	33,988	2,753	17.8	35,749	2,788	16.2	1,761	35	-1.6
14768_14521	14768	14521	37,510	2,813	19.2	38,398	2,803	19.3	888	-10	0.1
14769_14521	14769	14521	2,593	104	6.0	2,741	99	5.1	148	-5	-0.9
14769_14709	14769	14709	1,214	132	15.5	1,380	104	15.4	166	-29	0.0
14769_14744	14769	14744	2,081	268	1.9	2,173	269	1.6	92	1	-0.3
14770_14752	14770	14752	78	0	25.0	231	0	25.0	153	0	0.0
14771_14323	14771	14323	5,494	379	8.3	5,362	408	8.4	-132	28	0.1

Road	A node	B node	Without the Proposed Scheme			With the Proposed Scheme			Change in AADT	Change in HDVs	Change in Speed
			AADT	HDVs	Speed (kph) ¹	AADT	HDVs	Speed (kph) ¹			
14772_14371	14772	14371	5,549	422	21.9	5,834	426	21.9	285	4	-0.1
14775_14129	14775	14129	186	0	17.2	726	2	16.6	540	2	-0.6
14775_14766	14775	14766	335	238	20.0	5	5	20.0	-330	-233	0.0
14775_14767	14775	14767	1,475	1	22.9	1,460	218	22.9	-15	216	0.0
14796_14368	14796	14368	1,899	99	28.0	2,430	104	28.0	531	6	0.0
14797_14317	14797	14317	1,452	57	16.8	2,149	56	16.6	697	-1	-0.2
14797_14529	14797	14529	5,530	122	25.0	5,594	101	25.0	64	-21	0.0
14804_14297	14804	14297	313	29	20.0	309	5	20.0	-4	-24	-0.1
14804_14692	14804	14692	554	74	21.8	586	110	21.9	32	36	0.0
14804_14768	14804	14768	134	29	5.4	542	27	5.3	408	-2	-0.1
14830_14550	14830	14550	554	17	15.0	851	17	14.9	297	0	-0.1
14902_14130	14902	14130	299	264	17.1	290	253	17.1	-9	-11	0.0
14902_14251	14902	14251	3,322	502	2.7	3,228	491	2.7	-94	-11	0.0
14903_14709	14903	14709	506	13	14.0	567	17	13.8	61	4	-0.2
14904_14116	14904	14116	454	25	19.5	495	25	19.5	41	0	0.0
14904_14744	14904	14744	99	20	22.3	340	7	23.3	241	-13	1.0
14904_14903	14904	14903	506	13	20.0	567	17	20.0	61	4	0.0
14905_14117	14905	14117	0	0	17.7	0	0	17.7	0	0	0.0
14905_14118	14905	14118	0	0	15.8	0	0	15.7	0	0	-0.1
14905_14904	14905	14904	52	11	19.0	48	3	19.1	-4	-8	0.0

Road	A node	B node	Without the Proposed Scheme			With the Proposed Scheme			Change in AADT	Change in HDVs	Change in Speed
			AADT	HDVs	Speed (kph) ¹	AADT	HDVs	Speed (kph) ¹			
14906_14721	14906	14721	6,949	327	29.0	7,033	331	29.0	84	4	0.0
14906_14905	14906	14905	15	10	18.8	11	3	18.8	-4	-7	0.0
14907_14251	14907	14251	11,256	101	14.3	11,831	95	14.2	575	-7	-0.1
14908_14307	14908	14307	1,161	109	6.6	1,696	215	7.2	535	106	0.5
14908_14310	14908	14310	10,820	498	16.3	12,803	653	16.3	1,983	155	0.1
14909_14754	14909	14754	1,118	0	20.8	1,620	11	20.7	502	11	-0.1
14910_14909	14910	14909	1,117	0	25.0	1,620	11	25.0	503	11	0.0
14911_14655	14911	14655	315	0	14.5	998	1	13.5	683	1	-1.0
14911_14656	14911	14656	971	2	7.6	1,098	5	7.1	127	4	-0.5
14911_14910	14911	14910	1,117	0	25.0	1,621	11	25.0	504	11	0.0
14912_14132	14912	14132	6,388	268	3.2	6,445	296	3.2	57	28	0.0
14912_14221	14912	14221	4,584	170	28.8	4,618	175	28.7	34	6	-0.1
14912_14902	14912	14902	2,587	147	25.5	2,493	137	25.5	-94	-10	0.0
14952_14704	14952	14704	6,572	375	30.0	8,030	393	30.0	1,458	19	-0.1
14952_14906	14952	14906	6,962	327	26.5	7,031	330	26.5	69	3	0.0
14953_14952	14953	14952	58	15	14.5	43	12	14.1	-15	-3	-0.4
14954_14136	14954	14136	8,591	404	2.5	916	157	1.4	-7,675	-247	-1.1
14954_14236	14954	14236	5,359	456	24.8	3,731	425	25.7	-1,628	-30	0.8
14965_14212	14965	14212	7,039	950	7.4	8,552	983	12.5	1,513	33	5.1
14965_14756	14965	14756	13,583	761	27.8	13,915	807	22.3	332	46	-5.5

Road	A node	B node	Without the Proposed Scheme			With the Proposed Scheme			Change in AADT	Change in HDVs	Change in Speed
			AADT	HDVs	Speed (kph) ¹	AADT	HDVs	Speed (kph) ¹			
14971_14067	14971	14067	7,238	181	2.3	4,831	34	3.3	-2,407	-147	1.1
14972_14701	14972	14701	0	0	12.7	0	0	12.5	0	0	-0.2
15060_14342	15060	14342	171	170	5.2	171	170	5.2	0	0	0.0
15060_14437	15060	14437	13,749	1,444	30.6	13,769	1,446	30.6	20	2	0.0
15501_14073	15501	14073	1,169	57	7.7	1,342	25	7.2	173	-32	-0.5
15501_14655	15501	14655	1,182	87	20.8	1,340	43	20.6	158	-45	-0.2
15501_14722	15501	14722	994	1	20.5	1,540	0	20.7	546	-1	0.2
15502_14073	15502	14073	850	4	6.5	569	32	6.7	-281	28	0.2
15503_14723	15503	14723	930	105	16.0	0	0	17.2	-930	-105	1.1
15503_15502	15503	15502	383	0	22.6	0	0	21.3	-383	0	-1.3
15504_14972	15504	14972	0	0	23.4	0	0	23.4	0	0	0.0
15504_15503	15504	15503	0	0	15.8	0	0	16.1	0	0	0.2
15505_15502	15505	15502	0	0	15.9	0	0	15.8	0	0	0.0
15505_15504	15505	15504	0	0	22.8	0	0	22.8	0	0	0.0
15507_15502	15507	15502	1,160	92	15.9	641	34	16.2	-519	-58	0.3
15507_15506	15507	15506	0	0	25.0	0	0	25.0	0	0	0.0
15509_14306	15509	14306	1,146	38	12.8	2,124	32	12.6	978	-6	-0.2
15509_15507	15509	15507	778	84	20.9	276	28	21.0	-502	-56	0.1
15509_15508	15509	15508	0	0	25.0	0	0	25.0	0	0	0.0
15511_14723	15511	14723	815	54	17.9	0	0	14.1	-815	-54	-3.7

Road	A node	B node	Without the Proposed Scheme			With the Proposed Scheme			Change in AADT	Change in HDVs	Change in Speed
			AADT	HDVs	Speed (kph) ¹	AADT	HDVs	Speed (kph) ¹			
15511_14971	15511	14971	3,272	177	29.0	36	32	29.6	-3,236	-145	0.5
15511_15510	15511	15510	1,118	3	19.9	0	0	20.2	-1,118	-3	0.3
15513_14756	15513	14756	0	0	16.0	0	0	15.4	0	0	-0.6
15516_15503	15516	15503	410	0	18.2	0	0	18.2	-410	0	0.0
15516_15506	15516	15506	708	3	25.0	0	0	25.0	-708	-3	0.0
15516_15510	15516	15510	0	0	25.0	0	0	25.0	0	0	0.0
15900_14365	15900	14365	7,863	810	16.9	8,244	866	16.8	381	56	-0.1
15900_14366	15900	14366	2,667	293	25.0	2,593	298	25.0	-74	5	0.0
15900_14451	15900	14451	0	0	6.6	0	0	6.6	0	0	0.0
16000_14108	16000	14108	4,028	157	27.1	4,210	160	27.1	182	3	0.0
16001_14107	16001	14107	8,676	998	26.3	8,828	998	26.3	152	0	0.0
16001_14108	16001	14108	7,291	620	29.1	7,548	619	29.0	257	-1	0.0
16045_16000	16045	16000	6,823	280	12.2	7,059	296	12.1	236	17	-0.1
16142_14110	16142	14110	12,234	1,162	8.8	12,289	1,155	8.8	55	-7	0.0
16177_14505	16177	14505	1,210	904	28.2	1,244	904	28.2	34	1	0.0
16181_14624	16181	14624	18,052	740	29.7	18,019	775	29.7	-33	35	0.0
16183_14625	16183	14625	3,599	828	23.5	3,722	841	23.5	123	13	0.0
16251_16177	16251	16177	1,209	904	5.2	1,244	904	5.1	35	0	0.0
16252_16251	16252	16251	1,209	904	32.0	1,244	904	32.0	35	0	0.0
16378_14087	16378	14087	6,095	201	13.0	6,263	213	12.9	168	12	0.0

Road	A node	B node	Without the Proposed Scheme			With the Proposed Scheme			Change in AADT	Change in HDVs	Change in Speed
			AADT	HDVs	Speed (kph) ¹	AADT	HDVs	Speed (kph) ¹			
16378_16000	16378	16000	3,535	85	14.1	3,332	100	14.1	-203	15	0.1
16381_16251	16381	16251	434	23	16.6	436	23	16.6	2	0	0.1
16387_16001	16387	16001	11,401	1,174	16.4	11,609	1,173	16.5	208	-2	0.1
12005_12006	12005	12006	407	22	25.0	407	22	25.0	0	0	0.0
12007_12008	12007	12008	4,536	0	18.7	4,400	0	18.7	-136	0	0.0
12154_12155	12154	12155	806	75	23.0	805	75	23.0	-1	0	0.0
12172_12173	12172	12173	0	0	13.8	1	0	13.8	1	0	0.0
12174_12175	12174	12175	968	119	21.6	983	119	21.6	15	0	0.0
12176_12178	12176	12178	0	0	23.3	0	0	23.4	0	0	0.2
12178_12179	12178	12179	0	0	15.9	0	0	15.9	0	0	0.0
12179_12180	12179	12180	0	0	18.8	0	0	18.8	0	0	0.0
12193_12194	12193	12194	544	4	25.0	538	4	25.0	-6	0	0.0
12224_12225	12224	12225	36,561	1,901	5.8	35,952	1,977	5.9	-609	76	0.0
12224_12226	12224	12226	48,806	2,001	3.2	48,599	2,041	3.2	-207	40	0.0
12224_12337	12224	12337	650	1	3.3	739	1	3.2	89	-1	0.0
12225_12337	12225	12337	0	0	15.2	0	0	15.2	0	0	0.0
12339_12345	12339	12345	4,071	138	13.4	4,071	138	13.4	0	0	0.0
12341_12345	12341	12345	6,597	211	20.4	6,602	211	20.4	5	0	0.0
12353_12354	12353	12354	542	5	13.7	545	5	13.7	3	0	0.0
12081_12358	12081	12358	4,754	1,550	22.1	4,948	1,549	22.0	194	-1	0.0

Road	A node	B node	Without the Proposed Scheme			With the Proposed Scheme			Change in AADT	Change in HDVs	Change in Speed
			AADT	HDVs	Speed (kph) ¹	AADT	HDVs	Speed (kph) ¹			
12357_12359	12357	12359	68	0	22.9	122	0	22.9	54	0	0.0
12175_12360	12175	12360	968	119	22.1	983	119	22.1	15	0	0.0
12008_12368	12008	12368	5,653	23	6.7	5,560	22	7.1	-93	0	0.4
12368_12376	12368	12376	17,375	1,564	13.7	17,280	1,555	14.3	-95	-9	0.6
12005_12380	12005	12380	9,321	475	15.8	9,313	475	15.9	-8	0	0.1
12007_12380	12007	12380	7,937	659	11.4	7,618	747	11.4	-319	88	0.1
12380_12381	12380	12381	10,857	1,031	13.9	10,613	1,189	15.6	-244	157	1.6
12005_12387	12005	12387	5,954	381	8.1	5,940	380	8.2	-14	-1	0.0
12164_12401	12164	12401	4,916	84	14.2	4,916	84	14.2	0	0	0.0
12401_12402	12401	12402	8,845	327	14.1	9,025	361	13.6	180	34	-0.5
12360_12413	12360	12413	968	119	18.5	983	119	18.4	15	0	0.0
12355_12415	12355	12415	652	61	21.4	658	60	21.4	6	-1	0.0
12415_12416	12415	12416	0	0	21.4	0	0	21.4	0	0	0.0
12416_12418	12416	12418	605	1	15.5	579	1	15.5	-26	0	0.0
12178_12419	12178	12419	0	0	18.5	0	0	18.5	0	0	0.0
12415_12419	12415	12419	340	40	20.3	335	40	20.3	-5	0	0.0
12180_12421	12180	12421	258	0	16.8	330	0	16.7	72	0	0.0
12413_12421	12413	12421	720	699	13.4	721	696	13.4	1	-3	0.0
12421_12422	12421	12422	720	699	13.4	721	696	13.4	1	-3	0.0
12354_12423	12354	12423	5,075	284	20.3	5,043	257	20.3	-32	-27	0.0

Road	A node	B node	Without the Proposed Scheme			With the Proposed Scheme			Change in AADT	Change in HDVs	Change in Speed
			AADT	HDVs	Speed (kph) ¹	AADT	HDVs	Speed (kph) ¹			
12361_12426	12361	12426	12,414	1,440	1.7	12,421	1,428	1.7	7	-12	0.0
12368_12454	12368	12454	2,852	100	24.2	2,814	115	24.2	-38	16	0.0
12291_12477	12291	12477	43,263	2,769	13.5	44,739	2,953	13.4	1,476	184	0.0
12402_12477	12402	12477	927	0	13.2	897	0	13.2	-30	0	0.0
12476_12478	12476	12478	39,210	2,313	4.7	38,589	2,393	4.8	-621	79	0.1
12477_12478	12477	12478	40,435	2,750	10.9	41,770	2,924	11.0	1,335	174	0.1
12228_12480	12228	12480	1,036	38	24.8	1,062	116	24.7	26	77	-0.1
12480_12482	12480	12482	4,510	63	9.6	4,645	158	9.7	135	95	0.0
12481_12485	12481	12485	13,124	1,037	27.1	12,696	978	27.2	-428	-59	0.1
12226_12486	12226	12486	48,805	2,001	2.9	48,600	2,041	2.8	-205	40	-0.1
12402_12487	12402	12487	12,337	605	21.3	12,671	634	21.2	334	29	-0.1
12482_12488	12482	12488	435	43	15.0	430	51	15.0	-5	8	0.0
12485_12489	12485	12489	16,265	1,122	25.5	16,075	1,093	25.6	-190	-29	0.1
12223_12492	12223	12492	54,781	2,301	4.4	54,936	2,362	4.3	155	61	-0.1
12489_12495	12489	12495	7,922	848	13.4	7,469	792	13.4	-453	-56	0.1
12492_12496	12492	12496	52,505	2,048	27.5	52,608	2,104	27.3	103	57	-0.2
12488_12498	12488	12498	435	43	9.3	430	51	9.3	-5	8	0.0
12426_12499	12426	12499	13,448	1,721	14.1	13,487	1,713	14.1	39	-8	0.0
12426_12501	12426	12501	0	0	26.7	0	0	26.7	0	0	0.0
12496_12503	12496	12503	52,384	2,043	53.1	52,454	2,098	53.1	70	55	-0.1

Road	A node	B node	Without the Proposed Scheme			With the Proposed Scheme			Change in AADT	Change in HDVs	Change in Speed
			AADT	HDVs	Speed (kph) ¹	AADT	HDVs	Speed (kph) ¹			
12154_12504	12154	12504	6,094	658	13.0	6,131	619	13.1	37	-39	0.1
12503_12505	12503	12505	52,384	2,043	46.8	52,454	2,098	48.1	70	55	1.2
12496_12506	12496	12506	121	8	13.7	154	33	13.6	33	25	-0.1
12499_12506	12499	12506	24,193	2,443	12.0	24,232	2,399	12.2	39	-45	0.2
12506_12512	12506	12512	22,742	2,138	18.5	22,822	2,100	18.6	80	-38	0.1
12500_12513	12500	12513	4,519	352	21.5	4,487	332	21.4	-32	-20	-0.1
12512_12519	12512	12519	24,596	3,001	18.4	24,756	2,995	18.4	160	-5	-0.1
12081_12534	12081	12534	5,134	1,525	28.5	5,446	1,525	28.5	312	0	0.0
12319_12539	12319	12539	1,552	172	2.1	1,557	171	2.1	5	-1	0.0
12538_12539	12538	12539	7,022	1,538	10.5	7,366	1,539	10.4	344	2	-0.1
12539_12543	12539	12543	4,608	1,539	26.3	4,913	1,538	26.3	305	-1	0.0
12487_12577	12487	12577	4,693	164	16.6	4,627	171	16.6	-66	7	0.0
12513_12595	12513	12595	1,577	131	23.2	1,649	139	23.2	72	8	0.0
12575_12595	12575	12595	350	77	22.6	352	77	22.5	2	0	0.0
12416_12598	12416	12598	0	0	12.2	0	0	12.1	0	0	0.0
12417_12598	12417	12598	10,451	1,494	24.1	10,051	1,467	23.9	-400	-27	-0.2
12352_12604	12352	12604	9,989	1,039	7.8	10,487	1,038	7.6	498	-1	-0.2
12598_12604	12598	12604	7,897	1,311	2.5	7,465	1,277	2.1	-432	-34	-0.4
12482_12679	12482	12679	507	12	16.5	360	14	16.5	-147	2	0.1
12482_12696	12482	12696	12,688	837	30.0	13,230	913	30.0	542	75	0.0

Road	A node	B node	Without the Proposed Scheme			With the Proposed Scheme			Change in AADT	Change in HDVs	Change in Speed
			AADT	HDVs	Speed (kph) ¹	AADT	HDVs	Speed (kph) ¹			
12504_12760	12504	12760	7,663	567	23.1	7,873	575	23.1	210	8	-0.1
12519_12760	12519	12760	1,302	76	30.6	1,311	75	30.8	9	-1	0.1
12756_12760	12756	12760	249	0	20.5	240	0	20.5	-9	0	0.0
12543_12765	12543	12765	5,636	1,539	27.1	5,966	1,539	27.0	330	1	-0.1
12595_12773	12595	12773	379	59	25.0	436	58	25.0	57	-1	0.0
12338_12781	12338	12781	3,897	35	18.0	3,910	35	18.0	13	0	0.0
12341_12781	12341	12781	5,536	172	22.5	5,624	157	22.5	88	-14	0.0
12423_12847	12423	12847	7,750	310	27.1	7,736	286	27.1	-14	-24	0.0
12173_12848	12173	12848	0	0	23.1	1	0	23.1	1	0	0.0
12177_12848	12177	12848	1,733	151	24.0	1,800	149	24.0	67	-1	0.0
12160_12867	12160	12867	272	5	2.8	209	4	2.8	-63	-1	0.0
12226_12867	12226	12867	8,188	1,785	22.6	8,083	1,811	22.9	-105	26	0.3
12226_12902	12226	12902	4,872	141	31.1	5,180	197	31.1	308	56	-0.1
12224_12903	12224	12903	7,224	1,589	31.2	7,236	1,606	31.2	12	17	0.0
12902_12903	12902	12903	1,741	103	12.4	1,914	144	12.3	173	41	0.0
12481_12904	12481	12904	10,412	708	21.4	10,857	695	21.2	445	-13	-0.2
12514_12915	12514	12915	1,006	0	24.0	995	0	24.0	-11	0	0.0
12538_12915	12538	12915	3,034	133	19.4	2,977	125	19.4	-57	-8	0.0
12840_12915	12840	12915	29	0	15.0	27	0	15.0	-2	0	0.0
12506_12917	12506	12917	11,979	431	47.0	12,028	445	47.0	49	14	0.0

Road	A node	B node	Without the Proposed Scheme			With the Proposed Scheme			Change in AADT	Change in HDVs	Change in Speed
			AADT	HDVs	Speed (kph) ¹	AADT	HDVs	Speed (kph) ¹			
12228_13085	12228	13085	39,366	2,323	12.9	38,777	2,404	13.0	-589	82	0.0
12476_13085	12476	13085	41,757	2,589	23.6	43,308	2,772	23.4	1,551	183	-0.2
12223_13105	12223	13105	32,893	1,908	0.7	32,567	1,954	0.4	-326	46	-0.2
13070_13105	13070	13105	45,499	1,911	2.7	45,431	1,999	2.6	-68	88	-0.1
12609_13124	12609	13124	6,075	790	19.7	6,140	774	19.7	65	-16	0.0
12487_13161	12487	13161	11,133	468	23.6	11,388	501	23.5	255	33	-0.1
12223_13186	12223	13186	4,540	27	25.0	5,029	30	25.0	489	3	0.0
12225_13207	12225	13207	43,694	2,753	33.0	43,395	2,907	33.0	-299	155	0.0
12291_13207	12291	13207	35,718	2,036	23.1	35,067	2,104	23.2	-651	68	0.2
12401_13207	12401	13207	5,092	61	13.5	5,337	64	13.4	245	3	-0.1
12007_13245	12007	13245	6,219	634	26.5	6,391	652	26.4	172	18	-0.1
12376_13245	12376	13245	5,290	635	33.5	5,288	724	33.5	-2	90	0.0
12379_13245	12379	13245	79	70	22.6	79	69	22.6	0	-1	0.0
12381_13270	12381	13270	17,088	1,794	39.7	16,960	1,933	39.7	-128	139	0.0
13273_13274	13273	13274	2,608	0	25.1	3,969	0	24.4	1,361	0	-0.7
12412_13275	12412	13275	3,773	0	30.0	5,039	0	29.1	1,266	0	-0.9
13272_13275	13272	13275	672	0	21.7	971	0	22.0	299	0	0.3
13273_13275	13273	13275	5,313	0	24.5	5,220	0	24.5	-93	0	0.0
12370_13277	12370	13277	1,008	273	25.0	1,012	273	25.0	4	0	0.0
12425_13277	12425	13277	6,051	381	32.0	5,663	334	32.0	-388	-47	0.0

Road	A node	B node	Without the Proposed Scheme			With the Proposed Scheme			Change in AADT	Change in HDVs	Change in Speed
			AADT	HDVs	Speed (kph) [±]	AADT	HDVs	Speed (kph) [±]			
12337_13278	12337	13278	650	1	31.0	739	1	31.0	89	-1	0.0
12370_13278	12370	13278	11,531	1,995	31.0	11,806	2,137	31.0	275	142	0.0
12370_13279	12370	13279	4,872	141	36.0	5,180	197	36.0	308	56	0.0
12867_13279	12867	13279	7,253	1,581	36.0	7,094	1,610	36.0	-159	29	0.0
12004_13287	12004	13287	644	0	19.2	460	0	19.1	-184	0	-0.1
12381_13287	12381	13287	15,277	1,589	39.3	15,512	1,598	39.2	235	9	-0.1
12389_13287	12389	13287	7,533	1,040	35.7	7,954	1,161	35.6	421	122	-0.1
12399_13288	12399	13288	367	0	17.4	372	0	17.4	5	0	0.0
13274_13288	13274	13288	2,608	0	23.8	3,969	0	22.6	1,361	0	-1.2
12412_13293	12412	13293	18,016	1,279	45.0	17,277	1,313	45.0	-739	34	0.0
12291_13333	12291	13333	2,421	0	25.0	2,250	0	25.0	-171	0	0.0
13288_13333	13288	13333	757	0	25.0	1,668	0	25.0	911	0	0.0
12223_13335	12223	13335	10,007	520	24.8	9,829	521	24.8	-178	1	0.0
12055_13337	12055	13337	2,050	508	8.5	2,001	528	8.6	-49	20	0.0
12376_13337	12376	13337	17,204	1,308	16.8	17,424	1,307	16.8	220	-1	-0.1
13271_13337	13271	13337	9,702	1,135	1.7	9,912	1,199	1.7	210	64	0.0
12008_13338	12008	13338	1,079	1	20.7	1,055	1	20.7	-24	0	0.0
12380_13338	12380	13338	7,550	423	37.7	7,533	362	37.8	-17	-61	0.0
12370_13340	12370	13340	11,954	1,279	39.0	11,059	1,305	39.0	-895	26	0.0
12412_13340	12412	13340	11,768	1,659	44.0	12,017	1,911	44.0	249	251	0.0

Road	A node	B node	Without the Proposed Scheme			With the Proposed Scheme			Change in AADT	Change in HDVs	Change in Speed
			AADT	HDVs	Speed (kph) ¹	AADT	HDVs	Speed (kph) ¹			
12492_13352	12492	13352	5,450	512	27.6	5,504	517	27.6	54	5	0.0
12504_13352	12504	13352	5,146	638	28.4	5,052	596	28.4	-94	-42	0.0
13070_13354	13070	13354	0	0	19.6	0	0	19.6	0	0	0.0
13353_13354	13353	13354	1,475	7	21.7	1,538	8	21.7	63	0	0.0
13354_13355	13354	13355	1,475	7	21.0	1,538	8	21.0	63	0	0.0
12486_13356	12486	13356	4,260	226	20.1	4,165	229	20.3	-95	3	0.2
12513_13356	12513	13356	2,529	271	25.9	2,523	252	25.9	-6	-18	0.0
13355_13356	13355	13356	1,473	7	11.9	1,535	8	11.9	62	0	0.0
12486_13357	12486	13357	43,459	1,782	27.7	43,298	1,819	27.7	-161	37	0.0
13070_13357	13070	13357	35,326	2,014	27.0	34,590	2,075	27.1	-736	62	0.0
13355_13357	13355	13357	1,398	117	13.6	1,390	122	13.7	-8	5	0.1
12476_13358	12476	13358	974	262	24.4	824	259	24.4	-150	-3	0.0
13085_13358	13085	13358	109	5	19.6	123	3	19.7	14	-2	0.0
12159_13387	12159	13387	1,727	0	23.6	2,058	0	23.5	331	0	0.0
13272_13387	13272	13387	1,319	0	24.6	1,302	0	24.6	-17	0	0.0
12193_13390	12193	13390	12,262	515	42.0	12,597	567	42.0	335	52	0.0
12228_13391	12228	13391	3,762	0	20.4	3,668	0	20.4	-94	0	0.0
13288_13391	13288	13391	2,401	0	25.0	2,795	0	25.0	394	0	0.0
12534_13431	12534	13431	7,766	1,538	22.6	8,059	1,539	22.7	293	2	0.1
12538_13431	12538	13431	3,679	1,549	28.9	3,821	1,548	28.9	142	-1	0.0

Road	A node	B node	Without the Proposed Scheme			With the Proposed Scheme			Change in AADT	Change in HDVs	Change in Speed
			AADT	HDVs	Speed (kph) ¹	AADT	HDVs	Speed (kph) ¹			
12500_13478	12500	13478	8,754	1,786	8.1	9,061	1,803	8.0	307	17	0.0
12902_13478	12902	13478	2,410	7	10.6	2,467	7	10.6	57	0	0.0
12493_13480	12493	13480	2,533	268	30.9	2,476	270	30.9	-57	1	0.0
12903_13480	12903	13480	9,681	1,723	29.0	9,949	1,801	28.9	268	78	-0.1
12491_13481	12491	13481	7,744	372	28.8	8,008	408	28.8	264	37	0.0
13270_13482	13270	13482	22,535	2,028	21.8	21,541	2,176	21.8	-994	147	0.1
13390_13482	13390	13482	12,263	515	30.0	12,595	567	29.7	332	52	-0.2
13293_13483	13293	13483	18,016	1,279	36.8	17,277	1,313	36.8	-739	34	0.0
13482_13483	13482	13483	23,844	2,122	6.0	25,929	2,360	6.6	2,085	237	0.7
12511_13992	12511	13992	3,743	198	22.9	3,709	208	22.9	-34	9	0.0
13186_13992	13186	13992	4,540	27	26.1	5,029	30	26.0	489	3	-0.1
13353_13992	13353	13992	3,030	9	14.9	3,006	9	14.7	-24	0	-0.1
12228_14004	12228	14004	40,957	2,621	7.1	42,509	2,721	6.6	1,552	99	-0.5
12480_14004	12480	14004	3,942	292	7.3	3,831	291	7.1	-111	-1	-0.2
14065_14073	14065	14073	7,798	1,068	15.3	7,969	1,124	15.3	171	55	0.0
14107_14108	14107	14108	0	0	19.3	3	0	18.9	3	0	-0.4
14109_14110	14109	14110	32,293	2,422	11.1	32,020	2,466	11.3	-273	44	0.2
14114_14116	14114	14116	1,387	60	14.9	1,387	60	14.9	0	0	0.0
14116_14117	14116	14117	742	35	19.1	749	35	19.1	7	0	0.0
14130_14131	14130	14131	9,093	582	18.0	9,092	582	18.0	-1	0	0.0

Road	A node	B node	Without the Proposed Scheme			With the Proposed Scheme			Change in AADT	Change in HDVs	Change in Speed
			AADT	HDVs	Speed (kph) ¹	AADT	HDVs	Speed (kph) ¹			
14138_14139	14138	14139	10,559	1,763	10.0	11,055	1,736	9.9	496	-28	0.0
14141_14142	14141	14142	16,506	479	22.0	17,127	462	22.0	621	-16	-0.1
14142_14144	14142	14144	5,846	216	21.9	6,004	216	21.6	158	0	-0.3
14136_14211	14136	14211	6,196	223	11.6	3,209	125	8.4	-2,987	-98	-3.3
14129_14212	14129	14212	11,617	755	2.1	13,911	807	2.6	2,294	52	0.5
14211_14219	14211	14219	1,919	0	21.3	1,832	0	21.0	-87	0	-0.3
14142_14222	14142	14222	817	18	20.2	819	18	20.1	2	0	-0.2
12399_14235	12399	14235	1,814	62	22.5	1,909	61	22.5	95	-1	0.0
14219_14235	14219	14235	1,167	6	23.7	984	6	23.7	-183	0	0.0
14251_14253	14251	14253	12,952	181	30.8	14,592	204	30.8	1,640	23	-0.1
12904_14284	12904	14284	7,636	657	24.0	8,021	650	24.0	385	-7	0.0
12358_14285	12358	14285	0	0	8.9	0	0	8.9	0	0	0.0
12417_14288	12417	14288	9,313	941	11.2	9,765	947	11.1	452	7	-0.2
12422_14288	12422	14288	720	699	13.4	721	696	13.4	1	-3	0.0
13124_14288	13124	14288	5,589	777	16.0	5,651	763	15.8	62	-14	-0.1
12489_14289	12489	14289	5,374	177	19.9	5,582	195	19.9	208	18	0.0
14069_14294	14069	14294	38,886	3,578	18.7	38,758	3,604	18.3	-128	27	-0.4
14070_14294	14070	14294	31,115	2,738	12.0	31,553	2,777	11.5	438	39	-0.4
14099_14296	14099	14296	5,073	299	25.7	6,411	353	25.4	1,338	53	-0.2
14069_14297	14069	14297	3,740	165	25.4	4,674	229	25.2	934	64	-0.2

Road	A node	B node	Without the Proposed Scheme			With the Proposed Scheme			Change in AADT	Change in HDVs	Change in Speed
			AADT	HDVs	Speed (kph) ¹	AADT	HDVs	Speed (kph) ¹			
14069_14299	14069	14299	37,433	2,807	12.0	38,316	2,797	11.9	883	-10	-0.1
14099_14301	14099	14301	5,767	415	4.5	6,468	427	3.8	701	12	-0.6
14067_14303	14067	14303	37,250	2,906	5.4	39,594	3,009	4.6	2,344	104	-0.8
14301_14303	14301	14303	34,060	1,941	11.7	36,063	2,020	11.1	2,003	78	-0.6
14305_14307	14305	14307	1,286	1,112	2.6	2,226	1,117	2.6	940	5	-0.1
14065_14308	14065	14308	11,553	878	2.6	10,750	1,011	2.6	-803	132	0.0
14308_14312	14308	14312	18,316	1,227	5.7	20,433	1,430	5.1	2,117	203	-0.6
14305_14313	14305	14313	37,645	1,431	30.2	37,742	1,283	30.2	97	-147	0.0
14312_14313	14312	14313	12,424	944	31.5	13,218	1,203	31.4	794	259	-0.1
14112_14314	14112	14314	8,698	496	33.0	10,737	505	33.0	2,039	9	0.0
14283_14315	14283	14315	41,749	2,714	23.8	45,109	2,887	23.9	3,360	173	0.1
14310_14316	14310	14316	5,877	206	8.1	7,549	257	7.0	1,672	51	-1.1
14311_14318	14311	14318	6,077	231	28.8	5,838	228	28.9	-239	-3	0.0
14292_14320	14292	14320	8,953	340	20.2	7,695	354	21.3	-1,258	14	1.1
14318_14321	14318	14321	7,099	248	25.5	6,869	240	24.9	-230	-8	-0.6
14321_14322	14321	14322	5,938	184	28.9	5,192	177	28.9	-746	-8	0.1
14319_14323	14319	14323	1,225	1,181	5.8	1,229	1,179	5.9	4	-2	0.0
14309_14324	14309	14324	8,629	2,200	3.1	9,002	2,097	3.1	373	-103	0.0
14316_14325	14316	14325	7,060	233	5.0	8,400	302	2.7	1,340	69	-2.3
14324_14326	14324	14326	247	18	15.9	245	17	16.1	-2	-1	0.2

Road	A node	B node	Without the Proposed Scheme			With the Proposed Scheme			Change in AADT	Change in HDVs	Change in Speed
			AADT	HDVs	Speed (kph) ¹	AADT	HDVs	Speed (kph) ¹			
14323_14329	14323	14329	1,225	1,181	25.8	1,228	1,176	25.8	3	-4	0.0
14329_14333	14329	14333	1,225	1,181	7.7	1,228	1,176	7.7	3	-4	0.0
14325_14334	14325	14334	3,764	158	9.9	3,211	202	10.2	-553	44	0.3
14280_14336	14280	14336	3,932	515	8.1	3,675	515	8.2	-257	-1	0.1
14335_14336	14335	14336	3,774	166	4.8	3,201	138	5.3	-573	-28	0.5
14334_14338	14334	14338	11,286	632	2.9	10,930	678	3.2	-356	46	0.3
14281_14340	14281	14340	609	72	3.7	595	71	3.7	-14	-1	0.0
14292_14343	14292	14343	6,853	164	3.9	6,557	157	4.4	-296	-7	0.5
14309_14343	14309	14343	5,309	292	7.3	5,056	308	7.5	-253	16	0.2
14326_14343	14326	14343	4,094	94	12.8	3,202	96	13.4	-892	2	0.7
14340_14344	14340	14344	20,621	3,052	6.9	19,598	2,881	7.0	-1,023	-171	0.1
14055_14350	14055	14350	19,258	2,735	2.8	19,142	2,737	2.8	-116	3	0.0
14344_14353	14344	14353	10,977	1,658	4.7	10,592	1,652	4.8	-385	-5	0.1
12358_14358	12358	14358	4,754	1,550	3.9	4,948	1,549	3.7	194	-1	-0.3
14302_14363	14302	14363	4,401	660	32.0	4,353	688	32.0	-48	28	0.0
14297_14364	14297	14364	3,584	125	26.3	4,476	125	26.1	892	0	-0.2
14304_14364	14304	14364	1,246	66	28.2	1,959	65	27.9	713	-1	-0.3
14282_14365	14282	14365	3,106	267	20.5	2,490	261	21.4	-616	-6	0.9
14336_14365	14336	14365	1,668	30	20.7	1,433	36	20.5	-235	6	-0.2
14304_14368	14304	14368	2,089	71	32.0	2,566	72	32.0	477	1	0.0

Road	A node	B node	Without the Proposed Scheme			With the Proposed Scheme			Change in AADT	Change in HDVs	Change in Speed
			AADT	HDVs	Speed (kph) ¹	AADT	HDVs	Speed (kph) ¹			
14310_14369	14310	14369	4,447	440	23.0	4,769	553	22.9	322	113	0.0
14325_14370	14325	14370	4,202	357	22.9	4,086	351	22.9	-116	-6	0.0
14291_14371	14291	14371	560	90	22.3	528	66	22.3	-32	-24	0.0
14326_14373	14326	14373	3,774	166	28.0	3,201	138	28.0	-573	-28	0.0
14335_14373	14335	14373	9,865	819	28.0	9,349	813	28.0	-516	-5	0.0
14352_14378	14352	14378	2,243	103	32.0	2,272	105	32.0	29	1	0.0
14288_14381	14288	14381	5,900	142	32.0	6,222	143	32.0	322	2	0.0
14280_14382	14280	14382	1,149	179	19.5	1,004	173	19.7	-145	-7	0.1
14281_14382	14281	14382	7,798	281	16.3	7,602	266	16.0	-196	-15	-0.2
14282_14382	14282	14382	275	34	21.0	244	34	21.0	-31	0	0.0
14004_14388	14004	14388	44,530	2,984	1.5	46,111	3,089	1.5	1,581	106	0.0
14283_14388	14283	14388	41,329	2,149	1.7	40,901	2,209	1.7	-428	60	0.0
14284_14388	14284	14388	11,378	671	7.1	12,615	706	6.8	1,237	35	-0.3
14067_14393	14067	14393	38,931	2,531	34.0	39,968	2,398	34.0	1,037	-132	0.0
14305_14393	14305	14393	37,108	2,894	24.3	39,260	2,984	24.2	2,152	89	-0.1
14070_14418	14070	14418	38,222	3,516	29.2	38,009	3,535	29.2	-213	18	0.0
14109_14418	14109	14418	29,859	3,016	30.9	30,438	3,074	30.9	579	58	0.0
14338_14435	14338	14435	4,010	80	28.3	4,030	85	28.3	20	4	0.0
14342_14436	14342	14436	171	170	30.0	171	170	30.0	0	0	0.0
14344_14436	14344	14436	21,614	2,896	28.0	21,575	2,891	28.0	-39	-5	0.0

Road	A node	B node	Without the Proposed Scheme			With the Proposed Scheme			Change in AADT	Change in HDVs	Change in Speed
			AADT	HDVs	Speed (kph) ¹	AADT	HDVs	Speed (kph) ¹			
14337_14437	14337	14437	10,517	1,283	28.5	10,537	1,275	28.5	20	-8	0.0
14342_14438	14342	14438	8,915	1,614	23.0	8,781	1,607	23.0	-134	-7	0.1
14437_14438	14437	14438	10,346	1,107	23.8	10,365	1,109	23.8	19	2	0.0
14344_14448	14344	14448	171	170	40.0	171	170	40.0	0	0	0.0
14282_14449	14282	14449	9,272	566	25.9	9,209	626	25.8	-63	61	-0.1
14347_14449	14347	14449	171	170	40.0	171	170	40.0	0	0	0.0
14347_14450	14347	14450	22,144	2,369	40.0	22,213	2,443	40.0	69	74	0.0
14448_14450	14448	14450	171	170	30.0	171	170	30.0	0	0	0.0
14449_14451	14449	14451	171	170	16.3	171	170	16.3	0	0	0.0
14324_14491	14324	14491	12,629	2,804	31.0	11,539	2,700	31.0	-1,090	-104	0.0
14327_14491	14327	14491	10,200	877	31.0	9,146	878	31.0	-1,054	1	0.0
14327_14493	14327	14493	18,371	3,123	31.0	17,829	3,013	31.0	-542	-110	0.0
14110_14505	14110	14505	10,712	1,178	23.1	10,640	1,170	23.1	-72	-8	0.0
12413_14522	12413	14522	4,326	1,458	16.8	4,560	1,468	16.8	234	10	0.0
14099_14525	14099	14525	1,402	803	32.0	1,433	805	32.0	31	2	0.0
14301_14526	14301	14526	33,448	1,907	8.1	35,448	1,985	7.4	2,000	79	-0.7
14521_14526	14521	14526	34,869	2,650	13.3	36,298	2,686	12.1	1,429	36	-1.2
14525_14526	14525	14526	1,402	803	2.1	1,433	805	2.0	31	2	-0.1
14067_14527	14067	14527	4,756	152	21.4	0	0	20.3	-4,756	-152	-1.1
14320_14527	14320	14527	6,014	210	24.3	3,991	144	23.9	-2,023	-67	-0.3

Road	A node	B node	Without the Proposed Scheme			With the Proposed Scheme			Change in AADT	Change in HDVs	Change in Speed
			AADT	HDVs	Speed (kph) ¹	AADT	HDVs	Speed (kph) ¹			
14343_14528	14343	14528	2,112	114	22.0	1,657	63	22.2	-455	-51	0.1
14321_14529	14321	14529	1,139	57	25.0	1,654	56	25.0	515	-1	0.0
14313_14531	14313	14531	8,040	1,190	32.0	11,012	1,211	32.0	2,972	21	0.0
14301_14543	14301	14543	18,886	2,701	11.7	20,017	2,582	9.5	1,131	-119	-2.2
14309_14543	14309	14543	14,201	1,676	27.4	14,586	1,750	27.5	385	75	0.1
14304_14544	14304	14544	3,505	266	19.4	3,110	264	19.5	-395	-2	0.1
14309_14544	14309	14544	3,707	67	20.1	3,492	66	20.1	-215	0	0.0
14381_14547	14381	14547	5,900	142	26.5	6,222	143	26.5	322	2	-0.1
14333_14548	14333	14548	1,226	1,181	1.5	1,228	1,176	1.5	2	-4	0.0
14283_14549	14283	14549	13,316	812	28.5	13,506	729	28.5	190	-83	0.0
14549_14550	14549	14550	1,841	20	28.6	1,934	31	28.5	93	11	0.0
14308_14551	14308	14551	3,450	1,432	30.0	3,284	1,300	30.0	-166	-131	0.0
14307_14552	14307	14552	2,511	1,175	30.0	3,087	1,290	30.0	576	115	0.0
14312_14552	14312	14552	7,293	481	30.0	9,180	532	30.0	1,887	51	0.0
14312_14553	14312	14553	1,039	998	30.0	1,042	996	30.0	3	-2	0.0
14319_14553	14319	14553	9,143	2,213	4.6	9,336	2,278	2.1	193	65	-2.5
14313_14565	14313	14565	50,062	2,353	23.1	50,948	2,496	23.3	886	144	0.2
14315_14565	14315	14565	41,749	2,714	16.6	45,109	2,887	16.5	3,360	173	-0.1
14099_14571	14099	14571	869	836	28.2	868	836	28.2	-1	0	0.0
14303_14571	14303	14571	978	921	15.4	976	921	15.4	-2	0	0.0

Road	A node	B node	Without the Proposed Scheme			With the Proposed Scheme			Change in AADT	Change in HDVs	Change in Speed
			AADT	HDVs	Speed (kph) ¹	AADT	HDVs	Speed (kph) ¹			
14320_14572	14320	14572	6,714	383	21.7	6,569	374	21.7	-145	-8	0.0
14325_14572	14325	14572	3,636	55	23.0	5,409	87	23.0	1,773	32	0.0
14435_14572	14435	14572	17	0	20.5	20	0	20.5	3	0	0.0
14435_14573	14435	14573	3,993	80	30.4	4,010	84	30.4	17	4	0.0
14543_14574	14543	14574	5,182	285	30.0	5,132	349	30.0	-50	64	0.0
14280_14580	14280	14580	2,598	132	7.2	2,633	100	7.3	35	-32	0.0
14340_14580	14340	14580	5,230	1,773	5.0	4,795	1,832	5.0	-435	59	0.1
14493_14580	14493	14580	18,371	3,123	3.7	17,830	3,013	3.9	-541	-110	0.1
14553_14607	14553	14607	0	0	25.0	0	0	25.0	0	0	0.0
14070_14608	14070	14608	2,323	186	32.0	2,385	193	32.0	62	7	0.0
14296_14609	14296	14609	5,048	288	29.7	6,374	331	29.5	1,326	44	-0.2
14300_14612	14300	14612	744	53	21.6	765	53	21.6	21	0	0.0
14236_14614	14236	14614	11,951	621	38.0	12,168	596	38.0	217	-25	0.0
14250_14614	14250	14614	4,995	250	38.0	333	139	38.0	-4,662	-111	0.0
14612_14615	14612	14615	1,536	109	25.0	1,533	109	25.0	-3	0	0.0
14070_14617	14070	14617	0	0	20.8	0	0	20.8	0	0	0.0
14616_14617	14616	14617	1,628	2	22.6	1,634	2	22.6	6	0	0.0
14418_14618	14418	14618	54	0	23.3	54	0	23.3	0	0	0.0
14618_14619	14618	14619	54	0	25.0	54	0	25.0	0	0	0.0
14300_14621	14300	14621	867	422	26.3	842	421	26.3	-25	-1	0.0

Road	A node	B node	Without the Proposed Scheme			With the Proposed Scheme			Change in AADT	Change in HDVs	Change in Speed
			AADT	HDVs	Speed (kph) ¹	AADT	HDVs	Speed (kph) ¹			
14302_14621	14302	14621	2,553	664	28.8	2,979	667	28.8	426	4	0.0
14612_14622	14612	14622	1,584	198	24.4	1,586	198	24.4	2	0	0.0
14621_14622	14621	14622	0	0	23.7	0	0	23.7	0	0	0.0
14302_14623	14302	14623	3,439	272	23.5	3,174	270	23.5	-265	-2	0.0
14304_14623	14304	14623	2,949	145	29.0	2,925	170	29.0	-24	25	0.0
14624_14625	14624	14625	384	14	13.6	365	13	13.6	-19	-1	0.0
14250_14627	14250	14627	11,155	535	38.0	11,429	503	38.0	274	-33	0.0
14211_14648	14211	14648	4,347	222	32.0	3,709	126	32.0	-638	-96	0.0
14136_14650	14136	14650	7,993	312	36.0	7,254	319	36.0	-739	7	0.0
14137_14650	14137	14650	5,477	444	36.0	4,157	420	36.0	-1,320	-24	0.0
14142_14651	14142	14651	8,267	265	21.4	8,759	254	21.2	492	-11	-0.2
14651_14652	14651	14652	1,961	82	20.0	1,951	172	20.0	-10	89	-0.1
14113_14656	14113	14656	7,825	235	18.1	8,554	299	17.7	729	65	-0.4
14648_14656	14648	14656	4,347	222	17.6	3,709	126	18.1	-638	-96	0.5
14526_14673	14526	14673	279	1	21.3	296	1	21.5	17	0	0.2
14673_14674	14673	14674	275	1	25.0	278	1	25.0	3	0	0.0
14129_14680	14129	14680	8,151	921	29.6	11,195	974	29.4	3,044	53	-0.2
14130_14680	14130	14680	950	852	24.6	1,234	850	24.6	284	-2	0.0
14136_14690	14136	14690	4,110	90	30.8	11	10	31.1	-4,099	-80	0.3
14673_14692	14673	14692	3	0	20.6	19	0	20.7	16	0	0.1

Road	A node	B node	Without the Proposed Scheme			With the Proposed Scheme			Change in AADT	Change in HDVs	Change in Speed
			AADT	HDVs	Speed (kph) ¹	AADT	HDVs	Speed (kph) ¹			
14138_14695	14138	14695	7,311	709	31.6	6,483	687	31.6	-828	-22	0.0
14691_14695	14691	14695	181	8	20.6	370	8	20.6	189	0	-0.1
14693_14695	14693	14695	814	4	20.8	798	6	20.8	-16	2	0.0
14680_14696	14680	14696	7,850	926	30.3	10,054	965	30.1	2,204	39	-0.2
14691_14697	14691	14697	2,776	14	19.8	410	9	19.7	-2,366	-5	-0.1
14696_14697	14696	14697	991	106	21.3	1,118	72	19.9	127	-34	-1.5
14222_14698	14222	14698	6,788	1,561	26.3	8,190	1,581	26.3	1,402	19	0.0
14651_14698	14651	14698	0	0	20.3	0	0	20.3	0	0	-0.1
14131_14699	14131	14699	19,146	1,589	30.5	17,691	1,645	30.5	-1,455	56	0.1
14073_14701	14073	14701	5,735	1,044	26.5	5,899	1,103	26.5	164	59	-0.1
14115_14701	14115	14701	12,412	757	23.5	13,929	822	19.5	1,517	65	-4.0
14655_14701	14655	14701	2,642	37	24.8	2,423	94	24.3	-219	58	-0.5
14117_14704	14117	14704	736	29	15.2	743	29	15.0	7	0	-0.2
14251_14704	14251	14704	7,623	335	28.7	7,589	326	28.7	-34	-9	0.0
14692_14705	14692	14705	371	9	25.0	368	9	25.0	-3	0	0.0
14488_14707	14488	14707	2,485	37	20.8	2,049	16	19.4	-436	-21	-1.3
14706_14707	14706	14707	1,613	32	15.2	1,623	32	15.2	10	0	0.0
14544_14708	14544	14708	2,365	116	18.9	2,528	137	18.9	163	21	0.0
14707_14708	14707	14708	1,483	27	22.0	1,121	6	22.1	-362	-21	0.1
14299_14709	14299	14709	63	0	19.8	417	0	19.8	354	0	0.0

Road	A node	B node	Without the Proposed Scheme			With the Proposed Scheme			Change in AADT	Change in HDVs	Change in Speed
			AADT	HDVs	Speed (kph) ¹	AADT	HDVs	Speed (kph) ¹			
14324_14711	14324	14711	3,339	107	25.8	3,287	112	25.8	-52	5	0.0
14322_14712	14322	14712	5,938	184	22.2	5,192	177	22.2	-746	-8	0.0
14711_14713	14711	14713	2,429	29	21.1	2,354	31	21.1	-75	1	0.0
14712_14713	14712	14713	0	0	17.4	0	0	17.4	0	0	0.0
14087_14714	14087	14714	7,833	305	25.7	7,999	328	25.5	166	22	-0.2
14604_14714	14604	14714	9,397	329	10.1	9,282	362	9.9	-115	33	-0.2
14317_14715	14317	14715	314	0	23.9	497	0	23.8	183	0	-0.1
14713_14715	14713	14715	2,397	0	20.9	2,323	0	20.9	-74	0	0.0
14132_14716	14132	14716	6,582	375	15.9	6,626	404	15.8	44	29	-0.1
14318_14720	14318	14720	5,344	144	22.8	5,333	149	22.8	-11	5	0.0
14719_14720	14719	14720	6,973	328	12.2	6,974	328	12.2	1	0	0.0
14118_14721	14118	14721	0	0	12.6	1	0	12.5	1	0	-0.1
14609_14721	14609	14721	5,047	288	23.4	6,055	333	24.5	1,008	45	1.0
14112_14722	14112	14722	11,251	371	25.3	12,746	395	25.3	1,495	24	0.0
14113_14722	14113	14722	5,786	226	30.0	4,865	126	30.1	-921	-99	0.1
14115_14724	14115	14724	2,438	51	25.0	20	19	25.0	-2,418	-32	0.0
14723_14725	14723	14725	815	54	23.6	0	0	23.7	-815	-54	0.1
14724_14725	14724	14725	2,438	51	17.1	0	0	18.1	-2,438	-51	1.1
13391_14726	13391	14726	2,401	0	20.6	2,795	0	20.4	394	0	-0.2
14004_14726	14004	14726	2,079	0	23.9	2,234	0	23.9	155	0	0.0

Road	A node	B node	Without the Proposed Scheme			With the Proposed Scheme			Change in AADT	Change in HDVs	Change in Speed
			AADT	HDVs	Speed (kph) ¹	AADT	HDVs	Speed (kph) ¹			
14235_14726	14235	14726	2,981	66	24.4	2,873	66	24.4	-108	0	0.0
14436_14729	14436	14729	3,162	101	22.4	3,254	101	22.4	92	0	0.0
14720_14729	14720	14729	4,011	229	22.6	4,034	230	22.6	23	1	0.0
12193_14736	12193	14736	11,680	467	21.3	9,164	440	23.0	-2,516	-27	1.7
13387_14736	13387	14736	1,228	0	8.9	1,367	0	8.8	139	0	-0.1
14613_14736	14613	14736	5,428	141	12.5	5,878	135	12.0	450	-6	-0.6
14627_14736	14627	14736	11,155	535	21.6	11,428	503	22.4	273	-33	0.9
12159_14737	12159	14737	2,612	47	15.4	3,826	50	9.9	1,214	3	-5.6
14219_14737	14219	14737	1,539	0	17.4	1,840	0	17.0	301	0	-0.5
14118_14744	14118	14744	1,942	70	17.3	2,100	71	17.2	158	1	-0.2
14323_14746	14323	14746	2,465	271	27.6	2,098	285	27.6	-367	14	0.0
14369_14746	14369	14746	0	0	18.2	0	0	18.4	0	0	0.3
14292_14748	14292	14748	7	3	22.1	810	5	22.2	803	2	0.1
14527_14748	14527	14748	2,084	48	20.4	0	0	20.3	-2,084	-48	-0.1
14528_14748	14528	14748	6,854	343	26.2	5,909	372	26.3	-945	30	0.1
14289_14751	14289	14751	9,880	316	21.6	10,090	363	21.5	210	47	-0.1
14371_14751	14371	14751	52	42	17.2	22	18	17.2	-30	-24	0.0
14654_14753	14654	14753	92	86	24.9	4	4	24.7	-88	-82	-0.2
14690_14753	14690	14753	2,425	87	25.2	15	14	26.4	-2,410	-73	1.2
14753_14754	14753	14754	183	0	19.5	0	0	19.5	-183	0	0.0

Road	A node	B node	Without the Proposed Scheme			With the Proposed Scheme			Change in AADT	Change in HDVs	Change in Speed
			AADT	HDVs	Speed (kph) ¹	AADT	HDVs	Speed (kph) ¹			
14654_14755	14654	14755	206	30	26.3	93	86	26.3	-113	56	0.0
14655_14755	14655	14755	617	95	25.0	1,186	125	24.7	569	30	-0.3
14754_14755	14754	14755	1,385	12	14.2	2,251	90	14.2	866	78	-0.1
14115_14756	14115	14756	7,836	932	24.0	8,231	930	23.9	395	-2	-0.1
14755_14756	14755	14756	2	2	16.8	889	104	16.7	887	102	-0.1
14695_14758	14695	14758	7,385	709	17.3	7,487	689	16.8	102	-20	-0.5
14758_14760	14758	14760	7,367	692	24.2	9,408	1,035	24.2	2,041	342	0.0
14691_14761	14691	14761	1,393	0	17.7	596	56	16.8	-797	56	-0.8
14758_14761	14758	14761	225	19	18.6	712	21	19.5	487	2	0.9
14690_14762	14690	14762	3,655	205	17.1	0	0	18.0	-3,655	-205	0.9
14761_14762	14761	14762	1,525	18	16.7	0	0	17.4	-1,525	-18	0.7
14761_14763	14761	14763	519	10	20.0	497	14	20.0	-22	4	0.0
14763_14765	14763	14765	520	10	13.5	497	14	13.5	-23	4	0.0
14764_14765	14764	14765	0	0	25.6	0	0	25.6	0	0	0.0
14764_14766	14764	14766	0	0	20.0	0	0	20.0	0	0	0.0
14697_14767	14697	14767	328	98	17.9	337	9	19.9	9	-89	2.0
14765_14767	14765	14767	0	0	18.6	129	1	18.6	129	1	0.0
14299_14768	14299	14768	37,510	2,813	11.4	38,399	2,803	11.0	889	-10	-0.3
14521_14768	14521	14768	33,791	2,737	5.7	34,889	2,756	5.5	1,098	19	-0.2
14521_14769	14521	14769	3,295	402	19.0	3,552	373	18.8	257	-29	-0.2

Road	A node	B node	Without the Proposed Scheme			With the Proposed Scheme			Change in AADT	Change in HDVs	Change in Speed
			AADT	HDVs	Speed (kph) ¹	AADT	HDVs	Speed (kph) ¹			
14709_14769	14709	14769	572	15	22.9	642	20	22.9	70	5	0.0
14744_14769	14744	14769	2,021	91	2.3	2,099	80	2.1	78	-11	-0.2
14319_14770	14319	14770	78	0	23.3	240	0	23.3	162	0	0.0
14607_14770	14607	14770	0	0	19.5	0	0	19.5	0	0	0.0
14751_14771	14751	14771	5,494	379	22.5	5,354	407	22.5	-140	28	0.0
14770_14771	14770	14771	0	0	17.1	8	0	17.3	8	0	0.2
14329_14772	14329	14772	5,549	422	26.6	5,834	426	26.5	285	4	0.0
14771_14772	14771	14772	0	0	17.2	0	0	17.1	0	0	-0.1
14129_14775	14129	14775	1,810	239	23.1	1,465	223	23.2	-345	-16	0.1
14766_14775	14766	14775	0	0	12.1	0	0	12.0	0	0	-0.1
14767_14775	14767	14775	186	0	23.2	726	2	23.1	540	2	0.0
14317_14796	14317	14796	5,653	153	28.2	5,953	137	28.2	300	-16	0.0
14368_14796	14368	14796	2,089	71	19.6	2,566	72	19.5	477	1	0.0
14529_14797	14529	14797	1,139	57	18.9	1,654	56	18.8	515	-1	0.0
14796_14797	14796	14797	5,843	123	27.7	6,088	103	27.7	245	-19	0.0
14297_14804	14297	14804	579	76	20.5	1,029	112	20.3	450	36	-0.2
14692_14804	14692	14804	422	55	21.0	408	31	21.0	-14	-24	0.0
14565_14830	14565	14830	554	17	20.0	851	17	20.0	297	0	0.0
14130_14902	14130	14902	334	331	30.6	355	342	30.6	21	11	0.0
14251_14902	14251	14902	2,032	307	14.2	2,119	301	13.9	87	-6	-0.2

Road	A node	B node	Without the Proposed Scheme			With the Proposed Scheme			Change in AADT	Change in HDVs	Change in Speed
			AADT	HDVs	Speed (kph) ¹	AADT	HDVs	Speed (kph) ¹			
14709_14903	14709	14903	1,168	107	20.0	1,672	84	20.0	504	-24	0.0
14116_14904	14116	14904	644	25	17.8	638	25	17.8	-6	0	0.0
14744_14904	14744	14904	10	0	15.9	10	0	15.8	0	0	0.0
14903_14904	14903	14904	1,168	107	14.0	1,671	84	13.7	503	-24	-0.4
14117_14905	14117	14905	6	6	17.6	6	6	17.6	0	0	0.0
14118_14905	14118	14905	40	1	15.8	40	1	15.8	0	0	0.0
14904_14905	14904	14905	790	89	19.1	963	62	19.1	173	-28	0.0
14721_14906	14721	14906	5,413	309	29.3	6,501	358	29.2	1,088	49	-0.1
14905_14906	14905	14906	795	94	19.1	968	67	18.9	173	-27	-0.3
14132_14907	14132	14907	11,256	101	33.0	11,831	95	33.0	575	-7	0.0
14307_14908	14307	14908	5,624	388	22.1	7,705	439	20.3	2,081	51	-1.8
14310_14908	14310	14908	1,161	109	30.0	1,696	215	30.0	535	106	0.0
14527_14908	14527	14908	4,495	117	11.8	4,409	207	11.1	-86	90	-0.8
14754_14909	14754	14909	1,092	2	25.0	1,240	7	25.0	148	5	0.0
14909_14910	14909	14910	1,092	2	25.0	1,240	7	25.0	148	5	0.0
14655_14911	14655	14911	5	0	23.8	0	0	23.8	-5	0	0.0
14656_14911	14656	14911	1,297	0	23.5	2,424	10	23.4	1,127	10	-0.1
14910_14911	14910	14911	1,092	2	15.1	1,240	7	14.9	148	5	-0.2
14132_14912	14132	14912	4,981	229	15.1	5,196	229	15.0	215	-1	-0.2
14221_14912	14221	14912	7,682	246	22.6	7,309	256	23.0	-373	10	0.5

Road	A node	B node	Without the Proposed Scheme			With the Proposed Scheme			Change in AADT	Change in HDVs	Change in Speed
			AADT	HDVs	Speed (kph) ¹	AADT	HDVs	Speed (kph) ¹			
14902_14912	14902	14912	1,205	65	23.8	1,272	73	23.9	67	7	0.1
14704_14952	14704	14952	6,959	320	30.1	7,025	316	30.1	66	-4	0.0
14906_14952	14906	14952	6,575	381	26.9	8,037	410	26.7	1,462	29	-0.2
14952_14953	14952	14953	58	15	32.0	42	11	32.0	-16	-4	0.0
14136_14954	14136	14954	5,359	456	35.0	3,731	425	18.0	-1,628	-30	-17.0
14236_14954	14236	14954	8,591	404	35.0	916	157	19.2	-7,675	-247	-15.8
14212_14965	14212	14965	13,568	773	33.1	13,913	807	30.3	345	34	-2.8
14756_14965	14756	14965	7,039	950	28.0	8,552	983	28.0	1,513	33	0.0
14067_14971	14067	14971	5,584	56	16.9	4,730	33	18.8	-854	-23	1.9
14701_14972	14701	14972	0	0	21.4	0	0	21.4	0	0	0.0
14342_15060	14342	15060	8,782	1,150	26.4	8,767	1,148	26.4	-15	-2	0.0
14437_15060	14437	15060	171	170	32.0	171	170	32.0	0	0	0.0
14729_15060	14729	15060	4,011	229	24.6	4,034	230	24.6	23	1	0.0
14073_15501	14073	15501	1,902	23	23.9	1,540	20	23.9	-362	-3	0.0
14655_15501	14655	15501	1,589	24	24.5	2,815	28	24.5	1,226	4	0.0
14722_15501	14722	15501	485	88	24.0	621	41	23.9	136	-47	-0.1
14073_15502	14073	15502	1,176	58	19.9	2,143	26	18.8	967	-32	-1.1
15502_15503	15502	15503	930	105	22.5	0	0	22.6	-930	-105	0.2
14972_15504	14972	15504	0	0	20.3	0	0	20.3	0	0	0.0
15503_15504	15503	15504	0	0	18.5	0	0	18.5	0	0	0.0

Road	A node	B node	Without the Proposed Scheme			With the Proposed Scheme			Change in AADT	Change in HDVs	Change in Speed
			AADT	HDVs	Speed (kph) ¹	AADT	HDVs	Speed (kph) ¹			
15502_15505	15502	15505	0	0	25.0	0	0	25.0	0	0	0.0
15504_15505	15504	15505	0	0	25.0	0	0	25.0	0	0	0.0
15502_15507	15502	15507	893	36	21.0	2,363	28	20.6	1,470	-7	-0.4
15506_15507	15506	15507	178	0	19.3	0	0	19.1	-178	0	-0.2
14306_15509	14306	15509	1,219	105	16.3	893	51	14.2	-326	-54	-2.1
15507_15509	15507	15509	1,162	38	20.8	2,471	32	20.5	1,309	-6	-0.3
15508_15510	15508	15510	0	0	16.3	0	0	16.5	0	0	0.2
14723_15511	14723	15511	3,567	178	15.9	0	0	14.8	-3,567	-178	-1.1
14971_15511	14971	15511	1,709	56	20.9	35	31	19.8	-1,674	-25	-1.1
14756_15513	14756	15513	0	0	25.0	0	0	25.0	0	0	0.0
15503_15516	15503	15516	0	0	25.0	0	0	25.0	0	0	0.0
15506_15516	15506	15516	0	0	9.1	0	0	9.2	0	0	0.1
15510_15516	15510	15516	1,118	3	17.0	0	0	17.4	-1,118	-3	0.4
14365_15900	14365	15900	2,668	293	18.5	2,593	298	18.5	-75	5	0.0
14366_15900	14366	15900	7,863	810	23.2	8,244	866	23.2	381	56	0.0
14108_16000	14108	16000	7,292	620	5.3	7,553	619	5.2	261	0	0.0
14108_16001	14108	16001	4,028	157	12.4	4,210	160	12.2	182	3	-0.1
16000_16045	16000	16045	7,356	633	26.6	7,293	642	26.6	-63	9	0.0
14107_16142	14107	16142	8,676	998	22.3	8,823	997	22.2	147	-1	0.0
14110_16177	14110	16177	35,195	2,780	17.8	35,046	2,804	17.4	-149	23	-0.4

Road	A node	B node	Without the Proposed Scheme			With the Proposed Scheme			Change in AADT	Change in HDVs	Change in Speed
			AADT	HDVs	Speed (kph) ¹	AADT	HDVs	Speed (kph) ¹			
16177_16180	16177	16180	8,892	809	24.1	9,108	811	24.0	216	1	-0.1
16177_16251	16177	16251	25,067	1,805	31.4	24,649	1,824	31.4	-418	19	0.0
16251_16252	16251	16252	25,740	1,828	29.9	25,325	1,849	30.0	-415	21	0.0
14087_16378	14087	16378	3,535	85	25.0	3,332	100	25.0	-203	15	0.0
16000_16378	16000	16378	6,095	201	25.0	6,263	213	25.0	168	12	0.0
14109_16387	14109	16387	11,728	1,489	32.0	11,934	1,480	32.0	206	-10	0.0
12149_12055	12149	12055	113	52	20.6	143	63	20.5	30	11	0.0
12454_12049	12454	12049	2,945	100	18.1	2,921	114	18.1	-24	14	0.0
12454_12055	12454	12055	140	1	19.4	118	1	19.4	-22	0	0.0
12501_12499	12501	12499	11,067	1,162	13.1	11,132	1,158	12.5	65	-4	-0.6
12871_12501	12871	12501	17,193	1,994	44.9	17,273	2,004	44.9	80	9	0.0
12917_12508	12917	12508	11,979	431	87.7	12,028	445	87.7	49	14	0.0
13283_12055	13283	12055	2,259	540	26.5	2,282	548	26.3	23	8	-0.1
12055_12149	12055	12149	341	165	24.1	321	167	24.1	-20	2	0.0
12049_12454	12049	12454	2,052	6	24.4	1,816	5	24.4	-236	-1	0.0
12055_12454	12055	12454	319	0	20.2	431	0	20.3	112	0	0.0
12447_12518	12447	12518	5,779	1,682	30.0	5,775	1,686	30.0	-4	5	0.0
12460_12518	12460	12518	592	21	17.8	675	21	17.8	83	0	0.0
12501_12870	12501	12870	8,670	338	24.2	8,688	330	24.2	18	-8	0.0
12869_12870	12869	12870	31,265	1,469	60.9	30,756	1,538	61.1	-509	68	0.2

Road	A node	B node	Without the Proposed Scheme			With the Proposed Scheme			Change in AADT	Change in HDVs	Change in Speed
			AADT	HDVs	Speed (kph) ¹	AADT	HDVs	Speed (kph) ¹			
12508_12871	12508	12871	21,834	1,747	27.6	21,951	1,734	27.5	117	-13	-0.1
12505_12874	12505	12874	34,731	1,111	59.5	34,714	1,146	59.5	-17	34	0.0
12518_12916	12518	12916	6,555	1,717	36.0	6,656	1,717	36.0	101	0	0.0
12055_13283	12055	13283	3,460	564	26.1	3,488	562	26.1	28	-2	0.0

CFA001 Construction Traffic Data - Test 3

Table 4: Traffic data used in the construction assessment

Road	A node	B node	Without the Proposed Scheme			With the Proposed Scheme			Change in AADT	Change in HDVs	Change in Speed
			AADT	HDVs	Speed (kph) ¹	AADT	HDVs	Speed (kph) ¹			
12006_12005	12006	12005	532	10	15.3	496	11	15.3	-36	1	0.0
12008_12007	12008	12007	1,982	6	17.8	1,931	9	17.6	-51	3	-0.1
12155_12154	12155	12154	2,133	96	14.3	2,111	94	14.3	-22	-2	0.0
12176_12175	12176	12175	0	0	18.7	0	0	18.7	0	0	0.0
12178_12177	12178	12177	0	0	15.6	0	0	15.6	0	0	0.0
12194_12193	12194	12193	504	8	12.7	393	30	11.8	-111	22	-0.8
12225_12224	12225	12224	46,676	2,100	6.6	46,169	2,355	6.6	-507	254	0.0
12226_12224	12226	12224	38,973	2,299	11.3	38,510	2,523	11.3	-463	224	0.1
12337_12224	12337	12224	8,690	1,277	1.1	8,775	1,270	1.0	85	-8	-0.1
12337_12225	12337	12225	3,118	705	17.4	3,114	811	17.3	-4	106	0.0
12344_12343	12344	12343	5,111	189	24.2	5,121	188	24.2	10	-1	0.0
12345_12339	12345	12339	5,557	161	25.0	5,554	161	25.0	-3	0	0.0
12345_12344	12345	12344	5,111	189	20.9	5,121	188	20.9	10	-1	0.0
12355_12354	12355	12354	4,532	276	22.0	4,554	258	22.0	22	-18	0.0
12356_12172	12356	12172	0	0	25.0	0	0	25.0	0	0	0.0
12357_12176	12357	12176	0	0	24.3	0	0	24.3	0	0	0.0
12358_12081	12358	12081	5,542	1,530	6.1	5,594	1,529	6.1	52	0	0.0

Road	A node	B node	Without the Proposed Scheme			With the Proposed Scheme			Change in AADT	Change in HDVs	Change in Speed
			AADT	HDVs	Speed (kph) ¹	AADT	HDVs	Speed (kph) ¹			
12359_12081	12359	12081	70	0	7.6	82	0	7.6	12	0	0.0
12359_12174	12359	12174	968	119	25.0	908	129	25.0	-60	10	0.0
12360_12179	12360	12179	0	0	21.8	0	0	21.8	0	0	0.0
12362_12361	12362	12361	994	10	22.0	1,070	3	22.0	76	-7	0.0
12368_12008	12368	12008	3,749	94	28.5	3,696	92	28.5	-53	-2	0.0
12376_12368	12376	12368	12,684	1,725	35.7	12,603	1,923	35.7	-81	198	0.0
12380_12005	12380	12005	5,424	369	40.6	5,581	353	40.6	157	-16	0.0
12380_12007	12380	12007	12,228	648	35.8	12,161	813	35.8	-67	164	0.0
12381_12380	12381	12380	8,800	493	21.5	9,059	669	21.4	259	176	-0.2
12387_12005	12387	12005	9,728	496	37.6	9,802	482	37.6	74	-14	0.0
12401_12164	12401	12164	1,620	152	25.0	1,619	152	25.0	-1	0	0.0
12413_12360	12413	12360	0	0	19.1	0	0	19.1	0	0	0.0
12415_12177	12415	12177	1,733	151	23.4	1,758	151	23.4	25	1	0.0
12416_12415	12416	12415	1,420	129	13.6	1,430	129	13.6	10	0	0.0
12418_12417	12418	12417	2,040	82	10.4	1,993	83	10.5	-47	1	0.1
12419_12180	12419	12180	0	0	22.7	0	0	22.7	0	0	0.0
12419_12418	12419	12418	0	0	21.6	0	0	21.6	0	0	0.0
12421_12413	12421	12413	3,130	1,315	25.6	3,172	1,353	25.6	42	38	0.0
12422_12418	12422	12418	0	0	19.5	0	0	19.5	0	0	0.0
12422_12421	12422	12421	2,818	1,313	25.7	2,793	1,369	25.7	-25	56	0.0

Road	A node	B node	Without the Proposed Scheme			With the Proposed Scheme			Change in AADT	Change in HDVs	Change in Speed
			AADT	HDVs	Speed (kph) ¹	AADT	HDVs	Speed (kph) ¹			
12426_12361	12426	12361	16,229	1,574	28.2	16,084	1,677	28.0	-145	102	-0.1
12454_12368	12454	12368	2,138	4	13.1	2,054	8	12.9	-84	4	-0.2
12477_12291	12477	12291	37,343	2,017	11.8	36,626	2,332	11.6	-717	316	-0.2
12477_12402	12477	12402	4,216	257	28.8	4,293	261	28.8	77	4	0.0
12478_12476	12478	12476	43,257	2,898	5.6	43,514	3,233	5.4	257	335	-0.1
12478_12477	12478	12477	39,502	2,331	3.5	38,952	2,572	3.4	-550	241	0.0
12480_12228	12480	12228	4,677	5	7.3	4,605	10	7.3	-72	5	-0.1
12482_12480	12482	12480	4,578	293	20.4	4,644	323	20.5	66	30	0.1
12486_12226	12486	12226	34,402	1,927	9.2	33,886	2,140	9.3	-516	213	0.0
12488_12482	12488	12482	9,691	911	5.9	9,851	877	5.8	160	-34	-0.1
12488_12485	12488	12485	2,534	79	19.2	2,564	92	19.3	30	14	0.0
12492_12223	12492	12223	47,748	2,483	1.8	47,617	2,744	1.8	-131	261	0.0
12496_12492	12496	12492	43,608	2,093	4.6	43,420	2,373	4.5	-188	280	-0.1
12498_12488	12498	12488	10,774	927	12.8	10,893	902	12.8	119	-25	-0.1
12499_12426	12499	12426	14,830	1,305	8.3	14,734	1,485	8.0	-96	180	-0.3
12499_12496	12499	12496	459	358	42.5	694	389	42.5	235	31	0.0
12501_12426	12501	12426	565	230	9.1	560	197	9.3	-5	-33	0.2
12502_12496	12502	12496	43,123	1,768	53.0	42,688	1,833	53.0	-435	65	0.0
12506_12499	12506	12499	16,330	1,225	3.5	16,253	1,409	3.4	-77	184	-0.1
12512_12154	12512	12154	4,441	644	21.1	4,439	642	21.1	-2	-2	0.0

Road	A node	B node	Without the Proposed Scheme			With the Proposed Scheme			Change in AADT	Change in HDVs	Change in Speed
			AADT	HDVs	Speed (kph) ¹	AADT	HDVs	Speed (kph) ¹			
12512_12506	12512	12506	25,111	1,356	13.2	24,996	1,379	13.1	-115	23	-0.1
12513_12500	12513	12500	5,289	333	5.2	5,349	340	5.1	60	6	-0.1
12519_12512	12519	12512	24,315	1,167	19.4	24,323	1,169	19.4	8	2	0.0
12534_12081	12534	12081	3,674	1,547	10.4	3,740	1,531	10.4	66	-15	0.0
12534_12173	12534	12173	0	0	22.6	0	0	22.6	0	0	0.0
12539_12538	12539	12538	2,393	1,546	11.0	2,472	1,501	11.0	79	-45	0.0
12543_12539	12543	12539	2,394	1,547	11.2	2,472	1,501	11.2	78	-45	0.0
12565_12488	12565	12488	1,593	64	8.2	1,659	76	8.0	66	12	-0.2
12577_12478	12577	12478	2,054	97	8.6	2,284	94	8.2	230	-3	-0.3
12577_12487	12577	12487	3,594	72	19.4	3,611	71	19.3	17	-1	-0.1
12595_12513	12595	12513	2,701	324	23.3	2,738	343	23.3	37	18	0.0
12595_12575	12595	12575	1,199	72	21.7	1,210	76	21.7	11	4	0.0
12598_12416	12598	12416	2,025	130	19.7	2,044	131	19.6	19	1	0.0
12598_12417	12598	12417	7,758	892	28.5	7,999	905	28.4	241	13	0.0
12604_12352	12604	12352	3,570	978	27.4	3,288	1,023	27.5	-282	45	0.0
12604_12355	12604	12355	5,185	337	20.0	5,217	317	20.0	32	-20	0.0
12604_12598	12604	12598	7,758	892	28.3	7,999	905	28.3	241	13	0.0
12633_12341	12633	12341	4,717	175	18.6	4,854	157	18.6	137	-18	-0.1
12633_12356	12633	12356	0	0	25.0	0	0	25.0	0	0	0.0
12633_12538	12633	12538	3,034	133	8.5	2,901	134	8.6	-133	1	0.1

Road	A node	B node	Without the Proposed Scheme			With the Proposed Scheme			Change in AADT	Change in HDVs	Change in Speed
			AADT	HDVs	Speed (kph) ¹	AADT	HDVs	Speed (kph) ¹			
12679_12482	12679	12482	4,456	138	8.0	4,401	122	7.7	-55	-16	-0.3
12696_12481	12696	12481	12,688	837	15.0	12,896	810	15.0	208	-27	0.0
12760_12504	12760	12504	895	39	6.2	940	41	6.2	45	2	0.0
12760_12519	12760	12519	7,309	570	8.3	7,264	582	8.2	-45	12	-0.1
12760_12756	12760	12756	900	24	21.0	902	22	21.0	2	-2	0.0
12765_12543	12765	12543	2,394	1,547	32.0	2,472	1,501	32.0	78	-45	0.0
12773_12595	12773	12595	2,352	247	22.2	2,385	262	22.2	33	15	0.0
12781_12338	12781	12338	4,685	169	23.3	4,853	157	23.3	168	-11	0.0
12781_12341	12781	12341	3,897	35	14.5	3,906	37	14.5	9	2	0.0
12781_12543	12781	12543	851	0	18.6	847	0	18.6	-4	0	0.0
12840_12510	12840	12510	3,592	136	10.0	3,448	134	10.3	-144	-3	0.4
12847_12344	12847	12344	0	0	14.4	0	0	14.4	0	0	0.0
12847_12633	12847	12633	7,750	310	28.7	7,755	291	28.7	5	-19	0.0
12848_12357	12848	12357	1,733	151	25.2	1,758	151	25.2	25	1	0.0
12867_12160	12867	12160	689	28	23.0	705	28	23.0	16	0	0.0
12867_12226	12867	12226	4,872	141	9.2	4,888	149	9.2	16	8	0.0
12870_12502	12870	12502	43,123	1,768	57.6	42,688	1,833	57.8	-435	65	0.1
12902_12226	12902	12226	12,107	2,119	5.1	12,348	2,163	4.9	241	44	-0.2
12903_12224	12903	12224	650	1	5.6	717	1	5.5	67	0	0.0
12904_12481	12904	12481	7,859	809	27.9	7,600	746	28.0	-259	-63	0.0

Road	A node	B node	Without the Proposed Scheme			With the Proposed Scheme			Change in AADT	Change in HDVs	Change in Speed
			AADT	HDVs	Speed (kph) ¹	AADT	HDVs	Speed (kph) ¹			
12915_12538	12915	12538	1,036	0	12.2	1,022	0	12.2	-14	0	0.0
12915_12840	12915	12840	3,034	133	14.7	2,901	134	14.8	-133	1	0.0
12916_12512	12916	12512	6,555	1,717	6.2	6,523	1,723	6.2	-32	5	0.0
13085_12228	13085	12228	41,820	2,593	3.3	42,189	2,923	3.1	369	330	-0.2
13085_12476	13085	12476	39,209	2,313	4.0	38,573	2,590	4.0	-636	276	0.0
13105_12223	13105	12223	51,347	2,105	4.2	51,711	2,318	4.1	364	213	-0.2
13105_13070	13105	13070	35,099	1,895	14.7	34,684	2,128	12.9	-415	233	-1.8
13124_12605	13124	12605	2,250	25	4.0	2,302	28	3.9	52	3	-0.1
13124_12609	13124	12609	2,232	703	9.2	2,227	682	9.2	-5	-21	0.0
13186_12223	13186	12223	4,566	174	5.8	4,420	187	6.1	-146	13	0.3
13207_12225	13207	12225	43,472	2,087	7.0	42,868	2,413	7.0	-604	327	0.0
13207_12291	13207	12291	43,740	2,756	6.7	43,245	3,071	6.8	-495	316	0.1
13207_12401	13207	12401	5	5	20.8	5	5	20.8	0	0	0.0
13245_12007	13245	12007	5,023	623	28.8	4,890	652	28.7	-133	30	0.0
13245_12376	13245	12376	6,152	695	8.7	6,399	814	8.5	247	119	-0.2
13245_12379	13245	12379	463	5	20.2	503	6	20.2	40	1	0.0
13270_12381	13270	12381	20,140	1,511	15.3	20,598	1,736	14.4	458	226	-0.9
13273_12337	13273	12337	1,237	0	7.0	1,226	0	7.1	-11	0	0.0
13274_13273	13274	13273	6,537	0	34.4	6,434	0	34.4	-103	0	0.0
13275_12412	13275	12412	5,819	0	10.9	6,066	0	10.4	247	0	-0.5

Road	A node	B node	Without the Proposed Scheme			With the Proposed Scheme			Change in AADT	Change in HDVs	Change in Speed
			AADT	HDVs	Speed (kph) ¹	AADT	HDVs	Speed (kph) ¹			
13275_13272	13275	13272	1,319	0	25.0	1,929	0	25.0	610	0	0.0
13275_13273	13275	13273	2,620	0	24.7	2,941	0	24.7	321	0	0.0
13277_12370	13277	12370	6,447	426	8.1	6,477	378	7.9	30	-47	-0.2
13277_12425	13277	12425	997	273	20.7	986	284	20.5	-11	10	-0.2
13278_12337	13278	12337	12,208	2,039	4.4	12,285	2,066	4.4	77	27	0.0
13278_12370	13278	12370	650	1	3.3	717	1	3.3	67	0	-0.1
13279_12370	13279	12370	8,285	1,591	5.2	8,342	1,626	5.2	57	35	0.0
13279_12867	13279	12867	4,872	141	12.0	4,888	149	12.0	16	8	0.0
13287_12004	13287	12004	0	0	22.3	0	0	22.4	0	0	0.2
13287_12381	13287	12381	11,923	1,478	26.2	13,041	1,621	25.8	1,118	142	-0.4
13287_12389	13287	12389	10,123	1,387	18.8	10,217	1,563	18.7	94	176	-0.1
13288_12399	13288	12399	437	0	24.7	465	0	24.7	28	0	0.0
13288_13274	13288	13274	6,537	0	23.1	6,434	0	23.2	-103	0	0.0
13293_12412	13293	12412	15,183	1,655	26.4	15,568	1,878	26.4	385	223	0.0
13333_12291	13333	12291	862	0	5.7	1,199	0	5.8	337	0	0.1
13333_13288	13333	13288	2,143	0	4.7	2,187	0	4.6	44	0	-0.1
13335_12223	13335	12223	2,941	18	13.0	3,124	20	13.0	183	3	0.0
13335_12426	13335	12426	903	191	10.2	926	205	10.2	23	14	0.0
13337_12055	13337	12055	3,668	631	21.8	4,012	564	21.8	344	-67	0.0
13337_12376	13337	12376	11,652	1,398	7.2	11,697	1,425	7.2	45	27	0.0

Road	A node	B node	Without the Proposed Scheme			With the Proposed Scheme			Change in AADT	Change in HDVs	Change in Speed
			AADT	HDVs	Speed (kph) ¹	AADT	HDVs	Speed (kph) ¹			
13337_13271	13337	13271	13,343	894	8.9	13,509	969	9.0	166	75	0.0
13338_12008	13338	12008	1,136	18	24.3	1,241	17	24.3	105	-1	0.0
13338_12380	13338	12380	8,997	765	17.0	9,001	787	16.9	4	23	-0.1
13340_12370	13340	12370	11,769	1,659	14.6	11,821	1,734	14.6	52	75	0.0
13340_12412	13340	12412	11,954	1,279	29.8	12,129	1,232	29.3	175	-47	-0.5
13352_12492	13352	12492	7,019	667	2.2	6,984	666	2.2	-35	-1	0.0
13352_12504	13352	12504	5,819	512	5.3	5,849	522	5.3	30	10	0.0
13353_13105	13353	13105	1,441	143	4.6	1,393	122	4.9	-48	-20	0.3
13354_13353	13354	13353	4,812	159	18.0	4,422	142	17.9	-390	-17	-0.1
13355_13354	13355	13354	4,812	159	20.5	4,422	142	20.6	-390	-17	0.1
13356_12486	13356	12486	0	0	7.2	0	0	7.2	0	0	0.0
13356_12513	13356	12513	1,958	206	15.3	2,026	217	15.3	68	11	0.0
13356_13355	13356	13355	6,211	279	18.3	5,806	279	17.8	-405	0	-0.5
13357_12486	13357	12486	35,326	2,014	11.1	34,912	2,277	11.1	-414	263	0.0
13357_13070	13357	13070	45,503	1,911	19.4	45,605	2,137	10.3	102	226	-9.2
13358_12679	13358	12679	1,083	268	8.7	1,067	240	8.8	-16	-28	0.0
13358_13085	13358	13085	0	0	14.5	0	0	14.5	0	0	0.0
13387_12159	13387	12159	2,615	73	24.6	3,217	90	24.6	602	17	0.0
13387_13272	13387	13272	672	0	37.0	1,071	0	37.0	399	0	0.0
13390_12193	13390	12193	11,176	458	24.3	10,853	341	24.5	-323	-117	0.2

Road	A node	B node	Without the Proposed Scheme			With the Proposed Scheme			Change in AADT	Change in HDVs	Change in Speed
			AADT	HDVs	Speed (kph) ¹	AADT	HDVs	Speed (kph) ¹			
13391_12228	13391	12228	0	0	8.2	0	0	8.2	0	0	0.0
13391_13288	13391	13288	3,983	0	16.6	3,932	0	16.6	-51	0	0.0
13431_12534	13431	12534	3,679	1,549	25.4	3,740	1,531	25.4	61	-17	0.0
13431_12538	13431	12538	7,022	1,538	11.6	7,128	1,533	11.5	106	-4	-0.1
13431_12840	13431	12840	588	0	24.1	633	0	24.1	45	0	0.0
13478_12500	13478	12500	2,412	7	1.0	2,476	7	1.0	64	0	0.0
13478_12902	13478	12902	12,108	2,119	33.0	12,348	2,163	33.0	240	44	0.0
13480_12493	13480	12493	8,209	1,658	5.9	8,221	1,700	6.2	12	42	0.2
13480_12903	13480	12903	650	1	31.9	717	1	31.9	67	0	0.0
13480_13478	13480	13478	2,430	275	7.7	2,410	300	7.7	-20	25	0.0
13481_12401	13481	12401	10,953	460	25.4	11,115	473	25.4	162	13	0.0
13481_12491	13481	12491	3,617	340	29.5	3,652	318	29.5	35	-22	0.0
13482_13390	13482	13390	11,176	458	38.0	10,853	341	38.0	-323	-117	0.0
13483_13270	13483	13270	26,598	1,729	16.7	26,257	1,859	17.3	-341	130	0.7
13483_13293	13483	13293	15,183	1,655	40.0	15,568	1,878	40.0	385	223	0.0
13992_12511	13992	12511	3,654	33	13.1	3,882	37	13.0	228	4	-0.1
13992_13186	13992	13186	4,567	174	25.0	4,420	187	25.0	-147	13	0.0
13992_13352	13992	13352	1,833	27	19.0	1,742	27	19.0	-91	0	0.0
13992_13353	13992	13353	1,396	3	22.9	1,463	5	22.9	67	2	0.0
14004_12228	14004	12228	38,985	2,339	10.9	38,408	2,593	10.9	-577	254	-0.1

Road	A node	B node	Without the Proposed Scheme			With the Proposed Scheme			Change in AADT	Change in HDVs	Change in Speed
			AADT	HDVs	Speed (kph) ¹	AADT	HDVs	Speed (kph) ¹			
14004_12480	14004	12480	7,516	38	32.2	7,452	64	32.2	-64	26	0.0
14073_14065	14073	14065	11,553	878	34.0	11,662	1,258	34.0	109	380	0.0
14116_14114	14116	14114	1,093	43	25.0	1,091	41	25.0	-2	-1	0.0
14117_14116	14117	14116	640	18	16.3	584	19	16.3	-56	1	0.0
14144_14142	14144	14142	544	32	9.9	548	20	10.0	4	-12	0.0
14211_14136	14211	14136	11,027	232	7.0	11,724	280	7.1	697	48	0.2
14212_14129	14212	14129	7,489	944	27.7	7,062	1,064	24.1	-427	120	-3.6
14219_14211	14219	14211	4,532	0	15.8	5,206	0	15.7	674	0	-0.1
14221_14130	14221	14130	8,223	1,669	10.7	8,872	1,605	11.1	649	-64	0.4
14222_14138	14222	14138	5,906	791	12.3	6,241	722	12.2	335	-69	-0.1
14222_14142	14222	14142	406	32	5.8	366	63	5.7	-40	31	-0.1
14235_12399	14235	12399	341	0	22.9	344	0	22.9	3	0	0.0
14235_14219	14235	14219	2,338	0	23.0	2,468	0	23.0	130	0	0.0
14253_14129	14253	14129	13,880	750	32.4	13,418	847	29.9	-462	97	-2.5
14284_12904	14284	12904	7,225	766	11.3	6,970	693	11.6	-255	-73	0.3
14288_12417	14288	12417	9,464	1,439	29.3	9,297	1,428	29.3	-167	-10	0.0
14288_12422	14288	12422	3,500	1,327	20.7	3,479	1,377	20.7	-21	51	0.0
14288_13124	14288	13124	4,596	726	30.3	4,675	711	30.3	79	-15	0.0
14293_14109	14293	14109	37,067	4,411	11.7	38,668	4,255	11.3	1,601	-156	-0.4
14294_14069	14294	14069	33,685	2,762	5.1	34,590	2,670	4.7	905	-92	-0.5

Road	A node	B node	Without the Proposed Scheme			With the Proposed Scheme			Change in AADT	Change in HDVs	Change in Speed
			AADT	HDVs	Speed (kph) ¹	AADT	HDVs	Speed (kph) ¹			
14294_14070	14294	14070	38,663	3,557	5.1	38,517	3,555	5.1	-146	-2	0.0
14295_14293	14295	14293	25,172	2,190	4.2	26,782	2,088	4.1	1,610	-102	-0.1
14296_14099	14296	14099	6,254	356	2.7	8,408	212	1.4	2,154	-145	-1.3
14297_14069	14297	14069	1,117	56	4.7	1,483	41	4.6	366	-15	-0.2
14299_14069	14299	14069	33,867	2,743	4.2	34,742	2,711	4.2	875	-32	0.0
14300_14295	14300	14295	6,463	1,215	5.1	7,479	1,092	5.0	1,016	-124	-0.1
14301_14099	14301	14099	2,862	441	10.9	4,792	249	8.6	1,930	-192	-2.2
14303_14067	14303	14067	34,425	2,306	1.0	36,662	2,270	1.6	2,237	-36	0.6
14303_14301	14303	14301	36,289	2,032	1.4	37,342	2,156	1.2	1,053	123	-0.2
14306_14305	14306	14305	3,343	1,367	21.4	4,148	1,340	21.5	805	-28	0.1
14308_14065	14308	14065	7,798	1,068	27.0	8,024	1,320	27.0	226	251	0.0
14312_14308	14312	14308	9,531	1,735	3.1	9,483	1,740	3.1	-48	6	0.0
14313_14305	14313	14305	33,768	1,520	31.1	34,157	1,753	30.9	389	234	-0.2
14314_14283	14314	14283	8,698	496	6.1	11,303	430	6.0	2,605	-66	0.0
14315_14283	14315	14283	49,197	2,361	2.3	47,846	2,830	2.3	-1,351	468	0.0
14316_14310	14316	14310	1,333	271	21.1	1,844	319	17.4	511	48	-3.8
14318_14311	14318	14311	5,518	99	13.6	5,675	88	13.7	157	-11	0.1
14320_14292	14320	14292	6,116	141	22.8	6,260	148	22.7	144	8	0.0
14321_14318	14321	14318	8,046	145	24.0	8,219	135	24.1	173	-10	0.0
14322_14321	14322	14321	2,539	0	29.3	2,379	0	29.3	-160	0	0.0

Road	A node	B node	Without the Proposed Scheme			With the Proposed Scheme			Change in AADT	Change in HDVs	Change in Speed
			AADT	HDVs	Speed (kph) ¹	AADT	HDVs	Speed (kph) ¹			
14323_14319	14323	14319	1,598	1,552	4.5	1,597	1,555	4.5	-1	4	0.0
14324_14309	14324	14309	17,383	1,825	2.4	18,244	1,686	2.3	861	-139	-0.1
14325_14316	14325	14316	1,333	271	12.5	1,600	342	12.4	267	71	-0.1
14326_14324	14326	14324	7,089	744	5.3	7,157	742	5.3	68	-3	0.0
14329_14323	14329	14323	1,598	1,552	6.6	1,597	1,555	6.6	-1	4	0.0
14333_14329	14333	14329	9,165	2,117	24.9	9,655	2,050	24.8	490	-67	-0.1
14334_14325	14334	14325	2,831	433	1.4	2,943	477	1.4	112	44	0.0
14336_14280	14336	14280	2,106	137	25.6	1,788	105	25.7	-318	-31	0.1
14336_14335	14336	14335	5,876	729	24.1	4,816	793	24.2	-1,060	65	0.2
14338_14334	14338	14334	2,806	432	8.0	2,943	473	8.0	137	41	-0.1
14340_14281	14340	14281	6,809	279	21.9	6,733	270	21.9	-76	-9	0.0
14343_14292	14343	14292	8,176	319	22.2	6,711	384	22.3	-1,465	65	0.1
14343_14309	14343	14309	3,639	66	6.5	3,491	87	6.5	-148	22	0.0
14343_14326	14343	14326	5,140	164	18.8	4,216	145	18.9	-924	-20	0.1
14344_14340	14344	14340	19,939	2,572	13.6	19,359	2,588	13.8	-580	16	0.2
14353_14344	14353	14344	11,810	1,901	9.4	11,496	1,920	9.4	-314	19	0.0
14358_12358	14358	12358	5,542	1,530	30.8	5,594	1,529	30.7	52	0	0.0
14363_14302	14363	14302	5,991	869	17.0	6,029	850	17.0	38	-19	0.0
14364_14297	14364	14297	1,246	66	30.4	2,675	31	30.2	1,429	-35	-0.2
14364_14304	14364	14304	3,584	125	11.1	4,579	119	10.0	995	-7	-1.1

Road	A node	B node	Without the Proposed Scheme			With the Proposed Scheme			Change in AADT	Change in HDVs	Change in Speed
			AADT	HDVs	Speed (kph) ¹	AADT	HDVs	Speed (kph) ¹			
14365_14282	14365	14282	7,994	576	10.6	8,034	584	10.9	40	8	0.4
14365_14336	14365	14336	1,975	245	13.8	1,405	267	13.9	-570	22	0.2
14368_14304	14368	14304	1,899	99	10.2	3,047	66	9.5	1,148	-32	-0.7
14369_14319	14369	14319	5,890	683	8.6	6,320	775	8.6	430	91	0.0
14370_14333	14370	14333	5,515	419	11.2	5,891	410	11.0	376	-9	-0.2
14371_14290	14371	14290	7,068	269	6.1	7,240	278	5.2	172	10	-0.9
14371_14291	14371	14291	5,467	323	14.5	5,789	313	14.1	322	-9	-0.4
14372_14335	14372	14335	4,241	98	15.8	4,240	93	16.1	-1	-4	0.4
14373_14326	14373	14326	9,999	930	24.4	8,934	958	24.7	-1,065	28	0.3
14373_14335	14373	14335	3,774	166	28.0	3,501	124	28.0	-273	-42	0.0
14378_14347	14378	14347	2,243	103	2.9	2,275	106	2.8	32	2	0.0
14381_14288	14381	14288	7,840	1,207	10.9	7,666	1,220	11.0	-174	12	0.0
14382_14280	14382	14280	2,769	78	20.0	3,189	55	19.8	420	-22	-0.2
14382_14281	14382	14281	609	72	21.5	596	75	21.5	-13	3	0.0
14382_14282	14382	14282	4,659	294	18.9	3,982	333	19.1	-677	40	0.1
14388_14004	14388	14004	44,565	2,362	7.9	43,784	2,687	7.8	-781	325	-0.1
14388_14112	14388	14112	13,007	598	31.0	13,840	652	30.9	833	54	0.0
14388_14283	14388	14283	40,289	2,659	3.7	40,536	2,864	3.6	247	205	-0.1
14393_14067	14393	14067	37,125	2,896	2.9	38,258	3,118	7.9	1,133	222	5.0
14393_14305	14393	14305	38,931	2,531	24.3	36,662	2,634	24.7	-2,269	104	0.4

Road	A node	B node	Without the Proposed Scheme			With the Proposed Scheme			Change in AADT	Change in HDVs	Change in Speed
			AADT	HDVs	Speed (kph) ¹	AADT	HDVs	Speed (kph) ¹			
14418_14070	14418	14070	29,774	3,007	7.2	31,042	2,897	6.8	1,268	-110	-0.3
14418_14109	14418	14109	38,222	3,516	10.9	38,236	3,523	10.9	14	7	0.0
14436_14342	14436	14342	17,697	2,761	1.9	17,534	2,787	2.0	-163	26	0.1
14436_14344	14436	14344	171	170	4.4	171	169	4.4	0	-1	0.0
14437_14337	14437	14337	13,744	1,443	4.0	13,800	1,450	4.0	56	7	0.0
14438_14055	14438	14055	19,258	2,735	26.1	19,105	2,747	26.1	-153	13	0.0
14448_14281	14448	14281	990	0	19.0	935	0	19.0	-55	0	0.0
14448_14344	14448	14344	20,952	2,368	5.5	21,046	2,400	5.5	94	32	0.0
14449_14347	14449	14347	19,899	2,268	12.7	19,894	2,317	12.6	-5	48	0.0
14450_14347	14450	14347	171	170	9.2	171	169	9.2	0	-1	0.0
14450_14448	14450	14448	22,143	2,369	23.7	22,171	2,400	23.7	28	31	0.0
14451_14449	14451	14449	8,236	1,540	28.8	8,181	1,576	28.8	-55	36	0.0
14491_14324	14491	14324	10,199	877	1.4	8,937	1,021	1.4	-1,262	144	0.0
14491_14327	14491	14327	12,629	2,804	8.5	11,568	3,017	8.6	-1,061	214	0.1
14493_14327	14493	14327	1,928	603	4.0	3,408	354	3.9	1,480	-249	0.0
14505_14293	14505	14293	11,886	2,116	0.8	11,875	2,118	0.8	-11	2	0.0
14522_12413	14522	12413	720	699	32.0	720	697	32.0	0	-2	0.0
14525_14099	14525	14099	2,779	386	4.7	3,380	404	3.3	601	17	-1.4
14526_14301	14526	14301	34,653	2,322	5.6	35,978	2,285	5.3	1,325	-37	-0.3
14526_14521	14526	14521	32,176	2,960	25.6	33,790	2,854	25.3	1,614	-106	-0.3

Road	A node	B node	Without the Proposed Scheme			With the Proposed Scheme			Change in AADT	Change in HDVs	Change in Speed
			AADT	HDVs	Speed (kph) ¹	AADT	HDVs	Speed (kph) ¹			
14526_14525	14526	14525	2,779	386	32.0	3,380	404	32.0	601	17	0.0
14527_14067	14527	14067	6,261	225	2.0	0	0	3.1	-6,261	-225	1.1
14527_14320	14527	14320	1,681	37	21.3	576	44	20.8	-1,105	7	-0.5
14528_14343	14528	14343	3,515	134	10.4	2,571	111	11.7	-944	-23	1.3
14529_14321	14529	14321	5,530	122	17.0	5,864	108	16.9	334	-13	0.0
14531_14308	14531	14308	8,040	1,190	9.2	10,095	1,163	8.6	2,055	-27	-0.5
14532_14334	14532	14334	6,591	501	2.9	6,774	497	2.5	183	-4	-0.3
14533_14289	14533	14289	2,452	51	18.8	2,526	60	18.9	74	8	0.1
14543_14301	14543	14301	8,819	1,596	1.0	13,308	1,111	0.5	4,489	-486	-0.5
14543_14309	14543	14309	12,241	1,885	2.0	12,555	1,435	1.6	314	-450	-0.4
14544_14304	14544	14304	1,548	73	12.0	1,406	88	12.0	-142	16	-0.1
14544_14309	14544	14309	3,858	239	10.0	3,315	263	10.9	-543	24	0.9
14545_14317	14545	14317	4,426	115	24.5	4,601	92	24.2	175	-23	-0.3
14547_14381	14547	14381	7,840	1,207	32.0	7,666	1,220	32.0	-174	12	0.0
14548_14333	14548	14333	1,607	1,588	1.5	1,607	1,586	1.5	0	-2	0.0
14548_14532	14548	14532	6,591	501	25.0	6,774	497	25.0	183	-4	0.0
14549_14284	14549	14284	10,943	788	17.6	11,373	756	17.3	430	-32	-0.4
14550_14315	14550	14315	0	0	9.9	0	0	10.4	0	0	0.5
14550_14533	14550	14533	2,452	51	25.0	2,526	60	25.0	74	8	0.0
14551_14306	14551	14306	3,450	1,432	22.4	2,754	1,274	22.5	-696	-158	0.0

Road	A node	B node	Without the Proposed Scheme			With the Proposed Scheme			Change in AADT	Change in HDVs	Change in Speed
			AADT	HDVs	Speed (kph) ¹	AADT	HDVs	Speed (kph) ¹			
14552_14307	14552	14307	7,530	708	16.3	9,662	664	15.5	2,132	-43	-0.8
14552_14312	14552	14312	2,511	1,175	1.8	3,106	1,134	1.1	595	-41	-0.7
14553_14312	14553	14312	8,971	2,171	0.6	8,917	2,170	0.5	-54	-1	0.0
14553_14319	14553	14319	1,038	998	1.2	1,039	998	1.2	1	1	0.0
14565_14313	14565	14313	41,749	2,714	42.1	44,226	2,964	41.8	2,477	251	-0.2
14565_14315	14565	14315	49,197	2,361	17.5	47,846	2,830	17.6	-1,351	468	0.1
14571_14099	14571	14099	1,441	1,386	4.3	1,443	1,378	4.1	2	-8	-0.1
14571_14303	14571	14303	372	372	4.9	372	372	4.9	0	0	0.0
14572_14320	14572	14320	8,142	391	23.1	8,398	301	23.2	256	-90	0.1
14572_14325	14572	14325	3,779	265	2.3	3,678	272	2.1	-101	7	-0.3
14573_14341	14573	14341	0	0	6.8	0	0	6.7	0	0	0.0
14573_14372	14573	14372	4,241	98	30.0	4,240	93	30.0	-1	-4	0.0
14574_14528	14574	14528	5,182	285	24.6	4,455	431	24.6	-727	146	0.0
14580_14280	14580	14280	3,214	730	24.7	2,951	777	24.7	-263	47	0.0
14580_14340	14580	14340	18,950	2,786	20.5	18,174	2,771	20.6	-776	-15	0.1
14580_14493	14580	14493	1,927	603	31.0	3,409	354	31.0	1,482	-249	0.0
14608_14070	14608	14070	3,072	34	5.8	3,150	34	5.8	78	1	0.0
14609_14296	14609	14296	6,232	349	25.9	8,396	204	25.8	2,164	-145	-0.1
14612_14300	14612	14300	203	3	21.0	286	2	20.9	83	-1	-0.1
14614_14236	14614	14236	4,995	250	12.7	4,781	0	12.8	-214	-250	0.0

Road	A node	B node	Without the Proposed Scheme			With the Proposed Scheme			Change in AADT	Change in HDVs	Change in Speed
			AADT	HDVs	Speed (kph) ¹	AADT	HDVs	Speed (kph) ¹			
14614_14250	14614	14250	11,951	621	14.9	12,129	437	15.9	178	-184	0.9
14615_14612	14615	14612	1,787	200	17.3	1,869	193	17.3	82	-7	0.0
14616_14295	14616	14295	0	0	6.2	0	0	6.2	0	0	0.0
14617_14294	14617	14294	1,628	2	13.2	1,546	2	11.9	-82	0	-1.3
14618_14616	14618	14616	1,628	2	23.3	1,546	2	23.4	-82	0	0.0
14619_14618	14619	14618	1,628	2	17.3	1,546	2	17.3	-82	0	0.0
14621_14300	14621	14300	2,979	679	24.8	3,706	585	24.6	727	-94	-0.2
14621_14302	14621	14302	2,926	714	9.9	2,820	734	10.0	-106	20	0.1
14622_14612	14622	14612	792	57	24.3	777	56	24.3	-15	-1	0.0
14622_14621	14622	14621	1,922	211	18.3	2,102	209	18.2	180	-3	0.0
14623_14302	14623	14302	1,927	83	8.4	1,945	94	8.4	18	11	0.0
14623_14304	14623	14304	3,335	263	16.4	2,923	263	16.7	-412	-1	0.2
14623_14622	14623	14622	1,129	70	18.1	1,296	75	17.9	167	5	-0.1
14624_14295	14624	14295	17,444	715	9.3	17,792	693	9.1	348	-22	-0.2
14625_14300	14625	14300	3,984	841	19.8	4,076	829	19.7	92	-12	-0.1
14625_14624	14625	14624	0	0	12.6	4	0	12.6	4	0	-0.1
14627_14250	14627	14250	11,868	427	25.3	11,122	278	25.9	-746	-149	0.6
14628_14253	14628	14253	1,179	851	15.9	1,078	1,362	16.0	-101	511	0.1
14648_14211	14648	14211	5,773	231	20.4	6,013	130	20.4	240	-101	0.0
14650_14136	14650	14136	5,477	444	4.4	6,016	276	4.0	539	-167	-0.4

Road	A node	B node	Without the Proposed Scheme			With the Proposed Scheme			Change in AADT	Change in HDVs	Change in Speed
			AADT	HDVs	Speed (kph) ¹	AADT	HDVs	Speed (kph) ¹			
14650_14137	14650	14137	7,993	312	7.5	8,528	380	7.4	535	68	-0.1
14651_14132	14651	14132	7,465	209	12.6	7,384	182	12.8	-81	-27	0.2
14652_14651	14652	14651	0	0	9.3	0	0	9.3	0	0	0.0
14654_14212	14654	14212	1,688	10	12.8	162	1,067	8.3	-1,526	1,057	-4.6
14656_14113	14656	14113	5,786	226	32.0	6,488	104	32.0	702	-122	0.0
14656_14648	14656	14648	5,772	231	32.0	6,014	131	32.0	242	-100	0.0
14674_14673	14674	14673	0	0	14.7	0	0	14.7	0	0	0.0
14679_14131	14679	14131	10,380	841	23.0	11,325	629	22.9	945	-212	-0.1
14680_14129	14680	14129	0	0	0.0	895	0	21.8	895	0	21.8
14680_14628	14680	14628	1,179	851	22.0	1,078	1,362	22.0	-101	511	0.0
14692_14544	14692	14544	559	95	10.5	797	134	9.9	238	39	-0.6
14692_14673	14692	14673	0	0	23.8	0	0	23.8	0	0	0.0
14695_14691	14695	14691	940	1	21.6	1,132	1	21.9	192	0	0.3
14695_14693	14695	14693	16	8	13.4	4	0	13.1	-12	-8	-0.3
14696_14679	14696	14679	10,380	841	19.4	11,325	629	19.1	945	-212	-0.3
14697_14691	14697	14691	692	8	23.7	0	0	23.7	-692	-8	0.1
14697_14696	14697	14696	2,742	14	16.8	3,984	3	16.7	1,242	-11	-0.1
14698_14221	14698	14221	9,577	1,619	20.3	10,860	1,372	20.2	1,283	-247	-0.1
14698_14651	14698	14651	1,960	82	6.5	2,167	61	5.8	207	-22	-0.7
14699_14138	14699	14138	11,448	1,511	7.1	11,972	1,546	6.5	524	35	-0.6

Road	A node	B node	Without the Proposed Scheme			With the Proposed Scheme			Change in AADT	Change in HDVs	Change in Speed
			AADT	HDVs	Speed (kph) ¹	AADT	HDVs	Speed (kph) ¹			
14699_14698	14699	14698	4,807	72	17.3	6,177	31	17.1	1,370	-41	-0.2
14700_14222	14700	14222	11,062	2,400	25.7	11,419	2,596	25.7	357	195	0.0
14701_14073	14701	14073	11,166	871	3.9	11,703	1,286	3.7	537	415	-0.1
14701_14115	14701	14115	8,586	919	15.6	7,142	1,140	19.3	-1,444	221	3.8
14701_14655	14701	14655	1,949	27	15.7	3,611	59	14.6	1,662	32	-1.1
14704_14117	14704	14117	640	18	18.8	584	19	18.8	-56	1	0.0
14704_14251	14704	14251	7,412	400	6.9	9,560	302	5.1	2,148	-98	-1.8
14705_14692	14705	14692	795	85	14.8	795	85	14.8	0	0	0.0
14707_14488	14707	14488	1,843	144	14.7	2,060	199	14.7	217	55	0.0
14707_14706	14707	14706	1,147	11	25.0	1,108	11	25.0	-39	0	0.0
14708_14545	14708	14545	3,471	31	22.9	3,520	10	22.9	49	-21	0.0
14708_14707	14708	14707	376	110	22.5	619	107	22.4	243	-3	-0.1
14709_14299	14709	14299	0	0	12.3	1	0	12.3	1	0	0.0
14711_14545	14711	14545	768	77	28.4	895	72	28.4	127	-5	0.0
14712_14327	14712	14327	6,286	214	15.4	5,313	278	16.1	-973	64	0.7
14713_14711	14713	14711	0	0	13.3	0	0	13.4	0	0	0.0
14713_14712	14713	14712	329	32	12.5	558	13	12.7	229	-19	0.3
14714_14069	14714	14069	8,084	728	1.5	8,407	813	1.4	323	86	-0.1
14714_14087	14714	14087	2,156	39	15.7	2,366	35	15.7	210	-4	0.0
14714_14604	14714	14604	6,293	283	41.0	6,438	293	41.0	145	10	0.0

Road	A node	B node	Without the Proposed Scheme			With the Proposed Scheme			Change in AADT	Change in HDVs	Change in Speed
			AADT	HDVs	Speed (kph) ¹	AADT	HDVs	Speed (kph) ¹			
14715_14322	14715	14322	2,568	0	16.5	2,405	0	16.5	-163	0	0.0
14715_14713	14715	14713	298	0	21.6	527	0	21.6	229	0	0.0
14716_14132	14716	14132	8,841	203	13.5	8,707	218	13.6	-134	15	0.1
14720_14318	14720	14318	4,117	136	21.8	4,170	133	21.9	53	-3	0.0
14720_14719	14720	14719	7,351	213	23.0	7,346	213	23.0	-5	0	0.0
14721_14118	14721	14118	4	0	18.6	38	0	18.5	34	0	0.0
14721_14609	14721	14609	6,231	349	25.3	5,604	303	21.6	-627	-46	-3.6
14722_14112	14722	14112	6,944	271	20.0	9,461	190	18.1	2,517	-81	-1.9
14722_14113	14722	14113	7,822	235	32.0	8,497	166	32.0	675	-69	0.0
14724_14115	14724	14115	815	54	5.7	230	0	4.6	-585	-54	-1.0
14725_14723	14725	14723	2,438	51	24.3	0	0	24.4	-2,438	-51	0.0
14725_14724	14725	14724	815	54	25.0	0	0	25.0	-815	-54	0.0
14726_13391	14726	13391	337	0	24.2	368	0	24.2	31	0	0.0
14726_14004	14726	14004	4,150	66	6.4	4,308	68	6.1	158	2	-0.3
14726_14235	14726	14235	2,974	0	24.6	3,114	0	24.6	140	0	0.0
14729_14720	14729	14720	3,162	101	22.3	3,214	103	22.3	52	2	0.0
14731_14055	14731	14055	0	0	19.8	0	0	19.8	0	0	0.0
14736_12193	14736	12193	12,806	512	38.8	12,430	475	38.9	-376	-37	0.1
14736_13387	14736	13387	1,468	72	19.4	1,514	108	19.2	46	36	-0.2
14736_14613	14736	14613	3,524	137	25.0	3,955	100	24.9	431	-37	-0.1

Road	A node	B node	Without the Proposed Scheme			With the Proposed Scheme			Change in AADT	Change in HDVs	Change in Speed
			AADT	HDVs	Speed (kph) ¹	AADT	HDVs	Speed (kph) ¹			
14736_14627	14736	14627	11,868	427	38.0	11,122	278	38.0	-746	-149	0.0
14737_12159	14737	12159	1,539	0	23.1	1,865	0	23.2	326	0	0.1
14737_14219	14737	14219	2,612	47	24.3	3,183	59	24.3	571	12	0.0
14744_14118	14744	14118	2,091	270	19.1	2,892	202	19.0	801	-68	0.0
14746_14316	14746	14316	1,022	27	2.2	982	56	2.3	-40	29	0.1
14746_14369	14746	14369	1,443	242	17.1	1,213	308	17.1	-230	65	0.0
14746_14370	14746	14370	0	0	20.9	0	0	20.9	0	0	0.0
14748_14292	14748	14292	1,521	56	20.9	1,167	63	21.0	-354	6	0.1
14748_14527	14748	14527	3,461	97	13.9	968	160	16.4	-2,493	63	2.5
14748_14528	14748	14528	3,048	64	15.3	1,396	76	16.1	-1,652	12	0.7
14751_14371	14751	14371	3,139	78	17.7	3,317	77	17.6	178	-2	-0.1
14752_14751	14752	14751	78	0	16.8	270	0	16.9	192	0	0.1
14753_14654	14753	14654	1,853	41	24.4	289	88	24.9	-1,564	47	0.5
14753_14690	14753	14690	442	152	21.9	966	103	21.8	524	-49	-0.1
14754_14753	14754	14753	0	0	18.3	0	0	18.4	0	0	0.1
14755_14654	14755	14654	92	86	26.3	243	17	26.3	151	-69	0.0
14755_14655	14755	14655	1,340	40	12.9	1,263	19	12.8	-77	-21	-0.2
14755_14754	14755	14754	1,256	35	13.0	1,120	22	12.9	-136	-13	-0.1
14756_14115	14756	14115	13,583	761	14.6	14,344	906	11.6	761	145	-3.0
14756_14755	14756	14755	650	26	17.0	0	0	17.0	-650	-26	0.0

Road	A node	B node	Without the Proposed Scheme			With the Proposed Scheme			Change in AADT	Change in HDVs	Change in Speed
			AADT	HDVs	Speed (kph) ¹	AADT	HDVs	Speed (kph) ¹			
14759_14758	14759	14758	209	3	19.3	145	10	19.3	-64	7	0.0
14760_14137	14760	14137	10,360	1,285	6.2	11,727	1,058	5.1	1,367	-226	-1.1
14761_14691	14761	14691	2,719	14	18.2	3,972	2	18.1	1,253	-11	-0.1
14761_14758	14761	14758	0	0	17.7	0	0	17.6	0	0	-0.1
14762_14690	14762	14690	1,352	18	17.7	1,293	21	17.8	-59	3	0.2
14762_14760	14762	14760	2,386	489	21.2	1,545	540	21.0	-841	51	-0.2
14762_14761	14762	14761	3,144	22	16.7	4,411	2	16.5	1,267	-20	-0.2
14763_14761	14763	14761	0	0	16.9	4	0	16.9	4	0	0.0
14764_14762	14764	14762	1,787	327	19.1	1,265	326	19.1	-522	-1	0.0
14765_14763	14765	14763	0	0	20.0	4	0	20.0	4	0	0.0
14765_14764	14765	14764	1,454	87	15.0	1,070	82	15.2	-384	-5	0.2
14766_14764	14766	14764	335	238	19.2	200	311	19.2	-135	73	0.0
14767_14697	14767	14697	6	0	24.4	7	0	24.4	1	0	0.0
14767_14765	14767	14765	908	73	26.3	563	80	26.3	-345	7	0.0
14768_14299	14768	14299	33,988	2,753	17.8	36,452	2,594	14.7	2,464	-159	-3.1
14768_14521	14768	14521	37,510	2,813	19.2	39,220	2,685	19.6	1,710	-128	0.5
14769_14521	14769	14521	2,593	104	6.0	3,306	102	3.5	713	-2	-2.5
14769_14709	14769	14709	1,214	132	15.5	1,533	71	15.4	319	-61	-0.1
14769_14744	14769	14744	2,081	268	1.9	2,199	263	1.4	118	-6	-0.5
14770_14752	14770	14752	78	0	25.0	270	0	25.0	192	0	0.0

Road	A node	B node	Without the Proposed Scheme			With the Proposed Scheme			Change in AADT	Change in HDVs	Change in Speed
			AADT	HDVs	Speed (kph) ¹	AADT	HDVs	Speed (kph) ¹			
14771_14323	14771	14323	5,494	379	8.3	5,053	435	8.6	-441	56	0.2
14772_14371	14772	14371	5,549	422	21.9	5,921	413	21.9	372	-9	-0.1
14775_14129	14775	14129	186	0	17.2	177	3	17.3	-9	3	0.1
14775_14766	14775	14766	335	238	20.0	200	311	20.0	-135	73	0.0
14775_14767	14775	14767	1,475	1	22.9	1,273	65	22.9	-202	64	0.0
14796_14368	14796	14368	1,899	99	28.0	3,047	66	28.0	1,148	-32	0.0
14797_14317	14797	14317	1,452	57	16.8	2,716	29	16.8	1,264	-27	0.0
14797_14529	14797	14529	5,530	122	25.0	5,864	108	25.0	334	-13	0.0
14804_14297	14804	14297	313	29	20.0	638	21	19.5	325	-8	-0.5
14804_14692	14804	14692	554	74	21.8	704	138	21.9	150	64	0.1
14804_14768	14804	14768	134	29	5.4	1,147	5	5.2	1,013	-24	-0.2
14830_14550	14830	14550	554	17	15.0	553	20	15.0	-1	3	0.0
14902_14130	14902	14130	299	264	17.1	2,284	35	16.3	1,985	-229	-0.8
14902_14251	14902	14251	3,322	502	2.7	3,374	359	3.0	52	-143	0.3
14903_14709	14903	14709	506	13	14.0	996	20	13.3	490	7	-0.7
14904_14116	14904	14116	454	25	19.5	507	23	19.5	53	-2	0.0
14904_14744	14904	14744	99	20	22.3	692	0	23.5	593	-20	1.2
14904_14903	14904	14903	506	13	20.0	995	20	20.0	489	7	0.0
14905_14117	14905	14117	0	0	17.7	0	0	17.7	0	0	0.0
14905_14118	14905	14118	0	0	15.8	0	0	15.4	0	0	-0.3

Road	A node	B node	Without the Proposed Scheme			With the Proposed Scheme			Change in AADT	Change in HDVs	Change in Speed
			AADT	HDVs	Speed (kph) ¹	AADT	HDVs	Speed (kph) ¹			
14905_14904	14905	14904	52	11	19.0	61	10	19.1	9	-1	0.1
14906_14721	14906	14721	6,949	327	29.0	8,543	199	28.8	1,594	-128	-0.1
14906_14905	14906	14905	15	10	18.8	24	11	18.8	9	1	0.0
14907_14251	14907	14251	11,256	101	14.3	11,110	140	14.3	-146	39	0.0
14908_14307	14908	14307	1,161	109	6.6	1,584	150	7.0	423	41	0.4
14908_14310	14908	14310	10,820	498	16.3	12,652	543	16.2	1,832	45	0.0
14909_14754	14909	14754	1,118	0	20.8	1,290	0	20.8	172	0	0.0
14910_14909	14910	14909	1,117	0	25.0	1,290	0	25.0	173	0	0.0
14911_14655	14911	14655	315	0	14.5	797	0	14.3	482	0	-0.2
14911_14656	14911	14656	971	2	7.6	1,658	1	6.8	687	-1	-0.8
14911_14910	14911	14910	1,117	0	25.0	1,290	0	25.0	173	0	0.0
14912_14132	14912	14132	6,388	268	3.2	7,319	204	2.8	931	-64	-0.3
14912_14221	14912	14221	4,584	170	28.8	4,464	183	28.6	-120	14	-0.1
14912_14902	14912	14902	2,587	147	25.5	2,627	44	25.5	40	-103	0.0
14952_14704	14952	14704	6,572	375	30.0	8,627	284	30.0	2,055	-91	0.0
14952_14906	14952	14906	6,962	327	26.5	7,150	241	26.5	188	-87	0.0
14953_14952	14953	14952	58	15	14.5	43	12	14.1	-15	-3	-0.4
14954_14136	14954	14136	8,591	404	2.5	8,828	0	2.2	237	-404	-0.3
14954_14236	14954	14236	5,359	456	24.8	6,058	0	24.5	699	-456	-0.4
14965_14212	14965	14212	7,039	950	7.4	7,059	968	15.3	20	18	7.8

Road	A node	B node	Without the Proposed Scheme			With the Proposed Scheme			Change in AADT	Change in HDVs	Change in Speed
			AADT	HDVs	Speed (kph) ¹	AADT	HDVs	Speed (kph) ¹			
14965_14756	14965	14756	13,583	761	27.8	14,344	905	21.9	761	145	-5.9
14971_14067	14971	14067	7,238	181	2.3	0	0	5.4	-7,238	-181	3.1
14972_14701	14972	14701	0	0	12.7	0	0	12.3	0	0	-0.4
15060_14342	15060	14342	171	170	5.2	171	169	5.2	0	-1	0.0
15060_14437	15060	14437	13,749	1,444	30.6	13,805	1,437	30.6	56	-7	0.0
15501_14073	15501	14073	1,169	57	7.7	1,507	30	6.4	338	-27	-1.3
15501_14655	15501	14655	1,182	87	20.8	1,410	55	20.6	228	-32	-0.2
15501_14722	15501	14722	994	1	20.5	1,838	1	20.3	844	0	-0.2
15502_14073	15502	14073	850	4	6.5	493	32	6.7	-357	28	0.2
15503_14723	15503	14723	930	105	16.0	0	0	17.2	-930	-105	1.1
15503_15502	15503	15502	383	0	22.6	0	0	21.3	-383	0	-1.3
15504_14972	15504	14972	0	0	23.4	0	0	23.4	0	0	0.0
15504_15503	15504	15503	0	0	15.8	0	0	16.1	0	0	0.2
15505_15502	15505	15502	0	0	15.9	0	0	15.9	0	0	0.0
15505_15504	15505	15504	0	0	22.8	0	0	22.8	0	0	0.0
15507_15502	15507	15502	1,160	92	15.9	560	33	16.2	-600	-58	0.3
15507_15506	15507	15506	0	0	25.0	0	0	25.0	0	0	0.0
15509_14306	15509	14306	1,146	38	12.8	1,732	38	12.7	586	0	-0.1
15509_15507	15509	15507	778	84	20.9	193	25	21.0	-585	-59	0.1
15509_15508	15509	15508	0	0	25.0	0	0	25.0	0	0	0.0

Road	A node	B node	Without the Proposed Scheme			With the Proposed Scheme			Change in AADT	Change in HDVs	Change in Speed
			AADT	HDVs	Speed (kph) ¹	AADT	HDVs	Speed (kph) ¹			
15511_14723	15511	14723	815	54	17.9	0	0	14.1	-815	-54	-3.7
15511_14971	15511	14971	3,272	177	29.0	0	0	29.4	-3,272	-177	0.4
15511_15510	15511	15510	1,118	3	19.9	0	0	20.2	-1,118	-3	0.3
15513_14756	15513	14756	0	0	16.0	0	0	14.2	0	0	-1.8
15516_15503	15516	15503	410	0	18.2	0	0	18.2	-410	0	0.0
15516_15506	15516	15506	708	3	25.0	0	0	25.0	-708	-3	0.0
15516_15510	15516	15510	0	0	25.0	0	0	25.0	0	0	0.0
15900_14365	15900	14365	7,863	810	16.9	7,959	792	16.9	96	-18	0.0
15900_14366	15900	14366	2,667	293	25.0	2,648	298	25.0	-19	5	0.0
15900_14451	15900	14451	0	0	6.6	0	0	6.6	0	0	0.0
16000_14108	16000	14108	4,028	157	27.1	4,351	185	27.1	323	28	-0.1
16001_14107	16001	14107	8,676	998	26.3	9,049	1,007	26.3	373	9	-0.1
16001_14108	16001	14108	7,291	620	29.1	7,742	659	29.0	451	39	-0.1
16045_16000	16045	16000	6,823	280	12.2	7,161	317	12.2	338	37	0.0
16142_14110	16142	14110	12,234	1,162	8.8	12,354	1,176	8.7	120	14	0.0
16177_14505	16177	14505	1,210	904	28.2	1,224	892	28.2	14	-12	0.0
16181_14624	16181	14624	18,052	740	29.7	18,275	717	29.7	223	-23	0.0
16183_14625	16183	14625	3,599	828	23.5	3,770	804	23.5	171	-23	0.0
16251_16177	16251	16177	1,209	904	5.2	1,224	892	5.1	15	-12	0.0
16252_16251	16252	16251	1,209	904	32.0	1,224	892	32.0	15	-12	0.0

Road	A node	B node	Without the Proposed Scheme			With the Proposed Scheme			Change in AADT	Change in HDVs	Change in Speed
			AADT	HDVs	Speed (kph) ¹	AADT	HDVs	Speed (kph) ¹			
16378_14087	16378	14087	6,095	201	13.0	6,241	210	13.0	146	9	0.0
16378_16000	16378	16000	3,535	85	14.1	3,716	78	14.0	181	-7	-0.1
16381_16251	16381	16251	434	23	16.6	443	23	16.6	9	0	0.0
16387_16001	16387	16001	11,401	1,174	16.4	11,880	1,213	16.5	479	39	0.1
12005_12006	12005	12006	407	22	25.0	407	22	25.0	0	0	0.0
12007_12008	12007	12008	4,536	0	18.7	4,239	0	18.8	-297	0	0.1
12154_12155	12154	12155	806	75	23.0	805	74	23.0	-1	-1	0.0
12172_12173	12172	12173	0	0	13.8	0	0	13.8	0	0	0.0
12174_12175	12174	12175	968	119	21.6	908	129	21.6	-60	10	0.0
12176_12178	12176	12178	0	0	23.3	0	0	23.3	0	0	0.0
12178_12179	12178	12179	0	0	15.9	0	0	15.9	0	0	0.0
12179_12180	12179	12180	0	0	18.8	0	0	18.8	0	0	0.0
12193_12194	12193	12194	544	4	25.0	549	3	25.0	5	-1	0.0
12224_12225	12224	12225	36,561	1,901	5.8	36,118	2,142	5.9	-443	241	0.0
12224_12226	12224	12226	48,806	2,001	3.2	48,292	2,251	3.2	-514	250	0.0
12224_12337	12224	12337	650	1	3.3	717	1	3.2	67	0	0.0
12225_12337	12225	12337	0	0	15.2	0	0	15.2	0	0	0.0
12339_12345	12339	12345	4,071	138	13.4	4,071	138	13.4	0	0	0.0
12341_12345	12341	12345	6,597	211	20.4	6,604	210	20.4	7	-1	0.0
12353_12354	12353	12354	542	5	13.7	540	5	13.7	-2	0	0.0

Road	A node	B node	Without the Proposed Scheme			With the Proposed Scheme			Change in AADT	Change in HDVs	Change in Speed
			AADT	HDVs	Speed (kph) ¹	AADT	HDVs	Speed (kph) ¹			
12081_12358	12081	12358	4,754	1,550	22.1	4,783	1,557	22.1	29	7	0.0
12357_12359	12357	12359	68	0	22.9	80	0	22.9	12	0	0.0
12175_12360	12175	12360	968	119	22.1	908	129	22.1	-60	10	0.0
12008_12368	12008	12368	5,653	23	6.7	5,462	22	7.1	-191	0	0.5
12368_12376	12368	12376	17,375	1,564	13.7	17,424	1,657	12.4	49	94	-1.2
12005_12380	12005	12380	9,321	475	15.8	9,396	462	15.9	75	-13	0.0
12007_12380	12007	12380	7,937	659	11.4	7,795	674	11.3	-142	16	-0.1
12380_12381	12380	12381	10,857	1,031	13.9	10,763	1,127	14.0	-94	96	0.0
12005_12387	12005	12387	5,954	381	8.1	6,074	370	7.8	120	-11	-0.3
12164_12401	12164	12401	4,916	84	14.2	4,916	84	14.2	0	0	0.0
12401_12402	12401	12402	8,845	327	14.1	8,895	330	13.9	50	3	-0.2
12360_12413	12360	12413	968	119	18.5	908	129	18.5	-60	10	0.0
12355_12415	12355	12415	652	61	21.4	664	60	21.4	12	-1	0.0
12415_12416	12415	12416	0	0	21.4	0	0	21.4	0	0	0.0
12416_12418	12416	12418	605	1	15.5	614	1	15.5	9	0	0.0
12178_12419	12178	12419	0	0	18.5	0	0	18.5	0	0	0.0
12415_12419	12415	12419	340	40	20.3	335	39	20.3	-5	-1	0.0
12180_12421	12180	12421	258	0	16.8	314	0	16.8	56	0	0.0
12413_12421	12413	12421	720	699	13.4	720	697	13.4	0	-2	0.0
12421_12422	12421	12422	720	699	13.4	720	697	13.4	0	-2	0.0

Road	A node	B node	Without the Proposed Scheme			With the Proposed Scheme			Change in AADT	Change in HDVs	Change in Speed
			AADT	HDVs	Speed (kph) ¹	AADT	HDVs	Speed (kph) ¹			
12354_12423	12354	12423	5,075	284	20.3	5,093	265	20.3	18	-20	0.0
12361_12426	12361	12426	12,414	1,440	1.7	12,264	1,615	1.7	-150	175	0.0
12368_12454	12368	12454	2,852	100	24.2	2,624	125	24.2	-228	25	0.0
12291_12477	12291	12477	43,263	2,769	13.5	43,259	3,165	13.5	-4	396	0.0
12402_12477	12402	12477	927	0	13.2	891	0	13.2	-36	0	0.0
12476_12478	12476	12478	39,210	2,313	4.7	38,571	2,589	4.7	-639	276	0.0
12477_12478	12477	12478	40,435	2,750	10.9	40,442	3,122	11.0	7	372	0.1
12228_12480	12228	12480	1,036	38	24.8	1,077	44	24.7	41	5	-0.1
12480_12482	12480	12482	4,510	63	9.6	4,654	115	9.7	144	51	0.0
12481_12485	12481	12485	13,124	1,037	27.1	12,918	1,047	27.1	-206	10	0.0
12226_12486	12226	12486	48,805	2,001	2.9	48,294	2,251	2.4	-511	250	-0.5
12402_12487	12402	12487	12,337	605	21.3	12,506	608	21.2	169	4	-0.1
12482_12488	12482	12488	435	43	15.0	550	56	16.0	115	13	1.0
12485_12489	12485	12489	16,265	1,122	25.5	16,099	1,151	25.6	-166	28	0.0
12223_12492	12223	12492	54,781	2,301	4.4	54,655	2,523	4.2	-126	223	-0.2
12489_12495	12489	12495	7,922	848	13.4	7,693	848	13.3	-229	1	0.0
12492_12496	12492	12496	52,505	2,048	27.5	52,215	2,254	27.2	-290	207	-0.3
12488_12498	12488	12498	435	43	9.3	550	56	9.4	115	12	0.0
12426_12499	12426	12499	13,448	1,721	14.1	13,328	1,929	14.0	-120	208	-0.1
12426_12501	12426	12501	0	0	26.7	0	0	26.7	0	0	0.0

Road	A node	B node	Without the Proposed Scheme			With the Proposed Scheme			Change in AADT	Change in HDVs	Change in Speed
			AADT	HDVs	Speed (kph) ¹	AADT	HDVs	Speed (kph) ¹			
12496_12503	12496	12503	52,384	2,043	53.1	51,863	2,091	53.4	-521	48	0.3
12154_12504	12154	12504	6,094	658	13.0	6,062	652	13.1	-32	-6	0.0
12503_12505	12503	12505	52,384	2,043	46.8	51,863	2,091	47.2	-521	48	0.3
12496_12506	12496	12506	121	8	13.7	352	87	13.4	231	79	-0.3
12499_12506	12499	12506	24,193	2,443	12.0	23,822	2,449	12.2	-371	6	0.2
12506_12512	12506	12512	22,742	2,138	18.5	22,398	2,146	18.6	-344	8	0.1
12500_12513	12500	12513	4,519	352	21.5	4,504	323	21.5	-15	-30	0.0
12512_12519	12512	12519	24,596	3,001	18.4	24,341	3,040	18.5	-255	39	0.1
12081_12534	12081	12534	5,134	1,525	28.5	5,222	1,527	28.5	88	3	0.0
12319_12539	12319	12539	1,552	172	2.1	1,564	168	2.1	12	-5	0.0
12538_12539	12538	12539	7,022	1,538	10.5	7,128	1,533	10.5	106	-4	0.0
12539_12543	12539	12543	4,608	1,539	26.3	4,702	1,532	26.3	94	-7	0.0
12487_12577	12487	12577	4,693	164	16.6	4,696	155	16.6	3	-9	0.0
12513_12595	12513	12595	1,577	131	23.2	1,591	138	23.2	14	7	0.0
12575_12595	12575	12595	350	77	22.6	354	78	22.6	4	1	0.0
12416_12598	12416	12598	0	0	12.2	0	0	12.2	0	0	0.0
12417_12598	12417	12598	10,451	1,494	24.1	10,214	1,490	24.0	-237	-4	-0.1
12352_12604	12352	12604	9,989	1,039	7.8	10,280	1,037	7.6	291	-2	-0.1
12598_12604	12598	12604	7,897	1,311	2.5	7,636	1,306	2.3	-261	-5	-0.2
12482_12679	12482	12679	507	12	16.5	496	13	16.5	-11	1	0.0

Road	A node	B node	Without the Proposed Scheme			With the Proposed Scheme			Change in AADT	Change in HDVs	Change in Speed
			AADT	HDVs	Speed (kph) ¹	AADT	HDVs	Speed (kph) ¹			
12482_12696	12482	12696	12,688	837	30.0	12,896	810	30.0	208	-27	0.0
12504_12760	12504	12760	7,663	567	23.1	7,664	581	23.1	1	14	0.0
12519_12760	12519	12760	1,302	76	30.6	1,346	74	30.7	44	-2	0.1
12756_12760	12756	12760	249	0	20.5	218	0	20.5	-31	0	0.0
12543_12765	12543	12765	5,636	1,539	27.1	5,725	1,539	27.1	89	1	0.0
12595_12773	12595	12773	379	59	25.0	381	66	25.0	2	7	0.0
12338_12781	12338	12781	3,897	35	18.0	3,906	37	18.0	9	2	0.0
12341_12781	12341	12781	5,536	172	22.5	5,700	158	22.5	164	-14	0.0
12423_12847	12423	12847	7,750	310	27.1	7,755	291	27.1	5	-19	0.0
12173_12848	12173	12848	0	0	23.1	0	0	23.1	0	0	0.0
12177_12848	12177	12848	1,733	151	24.0	1,758	151	24.0	25	1	0.0
12160_12867	12160	12867	272	5	2.8	313	4	2.7	41	-1	0.0
12226_12867	12226	12867	8,188	1,785	22.6	8,241	1,825	22.5	53	40	0.0
12226_12902	12226	12902	4,872	141	31.1	4,888	149	31.1	16	8	0.0
12224_12903	12224	12903	7,224	1,589	31.2	7,344	1,663	31.2	120	74	0.0
12902_12903	12902	12903	1,741	103	12.4	1,705	114	12.4	-36	11	0.0
12481_12904	12481	12904	10,412	708	21.4	10,616	596	21.3	204	-112	-0.1
12514_12915	12514	12915	1,006	0	24.0	936	0	24.0	-70	0	0.0
12538_12915	12538	12915	3,034	133	19.4	2,901	134	19.4	-133	1	0.0
12840_12915	12840	12915	29	0	15.0	86	0	15.0	57	0	0.0

Road	A node	B node	Without the Proposed Scheme			With the Proposed Scheme			Change in AADT	Change in HDVs	Change in Speed
			AADT	HDVs	Speed (kph) ¹	AADT	HDVs	Speed (kph) ¹			
12506_12917	12506	12917	11,979	431	47.0	12,156	447	47.0	177	15	0.0
12228_13085	12228	13085	39,366	2,323	12.9	38,817	2,559	12.9	-549	236	-0.1
12476_13085	12476	13085	41,757	2,589	23.6	42,142	2,920	23.5	385	331	-0.1
12223_13105	12223	13105	32,893	1,908	0.7	32,568	2,133	0.7	-325	225	0.0
13070_13105	13070	13105	45,499	1,911	2.7	45,508	2,136	2.3	9	225	-0.4
12609_13124	12609	13124	6,075	790	19.7	6,034	797	19.7	-41	8	0.0
12487_13161	12487	13161	11,133	468	23.6	11,319	488	23.5	186	21	-0.1
12223_13186	12223	13186	4,540	27	25.0	4,807	30	25.0	267	3	0.0
12225_13207	12225	13207	43,694	2,753	33.0	43,203	3,073	33.0	-491	320	0.0
12291_13207	12291	13207	35,718	2,036	23.1	34,967	2,325	23.1	-751	289	0.0
12401_13207	12401	13207	5,092	61	13.5	5,203	64	13.4	111	3	-0.1
12007_13245	12007	13245	6,219	634	26.5	6,523	757	26.5	304	123	-0.1
12376_13245	12376	13245	5,290	635	33.5	5,153	671	33.5	-137	37	0.0
12379_13245	12379	13245	79	70	22.6	76	69	22.5	-3	-1	0.0
12381_13270	12381	13270	17,088	1,794	39.7	18,177	1,914	39.7	1,089	120	-0.1
13273_13274	13273	13274	2,608	0	25.1	2,932	0	25.0	324	0	0.0
12412_13275	12412	13275	3,773	0	30.0	4,649	0	29.9	876	0	-0.1
13272_13275	13272	13275	672	0	21.7	1,071	0	21.7	399	0	0.0
13273_13275	13273	13275	5,313	0	24.5	5,217	0	24.6	-96	0	0.0
12370_13277	12370	13277	1,008	273	25.0	997	283	25.0	-11	10	0.0

Road	A node	B node	Without the Proposed Scheme			With the Proposed Scheme			Change in AADT	Change in HDVs	Change in Speed
			AADT	HDVs	Speed (kph) ¹	AADT	HDVs	Speed (kph) ¹			
12425_13277	12425	13277	6,051	381	32.0	6,083	329	32.0	32	-52	0.0
12337_13278	12337	13278	650	1	31.0	717	1	31.0	67	0	0.0
12370_13278	12370	13278	11,531	1,995	31.0	11,582	2,032	31.0	51	37	0.0
12370_13279	12370	13279	4,872	141	36.0	4,888	149	36.0	16	8	0.0
12867_13279	12867	13279	7,253	1,581	36.0	7,337	1,615	36.0	84	34	0.0
12004_13287	12004	13287	644	0	19.2	724	0	18.6	80	0	-0.6
12381_13287	12381	13287	15,277	1,589	39.3	15,354	1,788	39.2	77	200	-0.1
12389_13287	12389	13287	7,533	1,040	35.7	8,168	1,335	35.5	635	296	-0.2
12399_13288	12399	13288	367	0	17.4	372	0	17.4	5	0	0.0
13274_13288	13274	13288	2,608	0	23.8	2,932	0	23.5	324	0	-0.3
12412_13293	12412	13293	18,016	1,279	45.0	17,683	1,266	45.0	-333	-13	0.0
12291_13333	12291	13333	2,421	0	25.0	2,464	0	25.0	43	0	0.0
13288_13333	13288	13333	757	0	25.0	1,090	0	25.0	333	0	0.0
12223_13335	12223	13335	10,007	520	24.8	10,214	545	24.8	207	25	0.0
12055_13337	12055	13337	2,050	508	8.5	2,135	474	8.5	85	-34	-0.1
12376_13337	12376	13337	17,204	1,308	16.8	17,758	1,337	16.7	554	30	-0.1
13271_13337	13271	13337	9,702	1,135	1.7	9,653	1,178	1.8	-49	43	0.0
12008_13338	12008	13338	1,079	1	20.7	1,077	1	20.7	-2	0	0.0
12380_13338	12380	13338	7,550	423	37.7	7,702	404	37.8	152	-18	0.0
12370_13340	12370	13340	11,954	1,279	39.0	12,129	1,232	39.0	175	-47	0.0

Road	A node	B node	Without the Proposed Scheme			With the Proposed Scheme			Change in AADT	Change in HDVs	Change in Speed
			AADT	HDVs	Speed (kph) ¹	AADT	HDVs	Speed (kph) ¹			
12412_13340	12412	13340	11,768	1,659	44.0	11,821	1,734	44.0	53	75	0.0
12492_13352	12492	13352	5,450	512	27.6	5,513	521	27.6	63	9	0.0
12504_13352	12504	13352	5,146	638	28.4	5,187	626	28.4	41	-12	0.0
13070_13354	13070	13354	0	0	19.6	0	0	19.6	0	0	0.0
13353_13354	13353	13354	1,475	7	21.7	1,531	8	21.7	56	1	0.0
13354_13355	13354	13355	1,475	7	21.0	1,531	8	21.0	56	1	0.0
12486_13356	12486	13356	4,260	226	20.1	3,831	257	20.3	-429	31	0.2
12513_13356	12513	13356	2,529	271	25.9	2,538	241	25.9	9	-30	0.0
13355_13356	13355	13356	1,473	7	11.9	1,530	8	11.9	57	0	0.1
12486_13357	12486	13357	43,459	1,782	27.7	43,595	2,000	15.1	136	218	-12.6
13070_13357	13070	13357	35,326	2,014	27.0	34,912	2,277	27.1	-414	263	0.0
13355_13357	13355	13357	1,398	117	13.6	1,382	130	12.5	-16	12	-1.1
12476_13358	12476	13358	974	262	24.4	898	257	24.4	-76	-5	0.0
13085_13358	13085	13358	109	5	19.6	169	2	19.7	60	-4	0.0
12159_13387	12159	13387	1,727	0	23.6	2,074	0	23.7	347	0	0.1
13272_13387	13272	13387	1,319	0	24.6	1,930	0	24.6	611	0	0.0
12193_13390	12193	13390	12,262	515	42.0	11,922	521	42.0	-340	6	0.0
12228_13391	12228	13391	3,762	0	20.4	3,678	0	20.4	-84	0	0.0
13288_13391	13288	13391	2,401	0	25.0	2,461	0	25.0	60	0	0.0
12534_13431	12534	13431	7,766	1,538	22.6	7,924	1,522	22.5	158	-16	-0.1

Road	A node	B node	Without the Proposed Scheme			With the Proposed Scheme			Change in AADT	Change in HDVs	Change in Speed
			AADT	HDVs	Speed (kph) ¹	AADT	HDVs	Speed (kph) ¹			
12538_13431	12538	13431	3,679	1,549	28.9	3,740	1,531	28.9	61	-17	0.0
12500_13478	12500	13478	8,754	1,786	8.1	9,017	1,786	8.0	263	0	0.0
12902_13478	12902	13478	2,410	7	10.6	2,475	7	10.6	65	0	0.0
12493_13480	12493	13480	2,533	268	30.9	2,510	259	30.9	-23	-9	0.0
12903_13480	12903	13480	9,681	1,723	29.0	9,755	1,843	28.9	74	120	-0.1
12491_13481	12491	13481	7,744	372	28.8	7,839	398	28.8	95	27	0.0
13270_13482	13270	13482	22,535	2,028	21.8	22,858	2,050	21.7	323	22	-0.1
13390_13482	13390	13482	12,263	515	30.0	11,922	521	30.1	-341	6	0.1
13293_13483	13293	13483	18,016	1,279	36.8	17,683	1,266	36.8	-333	-13	0.0
13482_13483	13482	13483	23,844	2,122	6.0	24,156	2,467	5.9	312	345	-0.1
12511_13992	12511	13992	3,743	198	22.9	3,865	204	22.9	122	6	0.0
13186_13992	13186	13992	4,540	27	26.1	4,807	30	26.1	267	3	0.0
13353_13992	13353	13992	3,030	9	14.9	2,689	9	15.0	-341	0	0.1
12228_14004	12228	14004	40,957	2,621	7.1	41,277	3,013	6.9	320	392	-0.2
12480_14004	12480	14004	3,942	292	7.3	3,912	335	6.7	-30	43	-0.6
14065_14073	14065	14073	7,798	1,068	15.3	8,024	1,320	15.2	226	251	-0.1
14107_14108	14107	14108	0	0	19.3	0	0	19.2	0	0	-0.1
14109_14110	14109	14110	32,293	2,422	11.1	32,118	2,385	11.4	-175	-37	0.3
14114_14116	14114	14116	1,387	60	14.9	1,387	60	15.4	0	0	0.5
14116_14117	14116	14117	742	35	19.1	640	32	19.1	-102	-3	0.0

Road	A node	B node	Without the Proposed Scheme			With the Proposed Scheme			Change in AADT	Change in HDVs	Change in Speed
			AADT	HDVs	Speed (kph) ¹	AADT	HDVs	Speed (kph) ¹			
14130_14131	14130	14131	9,093	582	18.0	10,881	519	17.6	1,788	-63	-0.3
14138_14139	14138	14139	10,559	1,763	10.0	7,859	2,503	10.2	-2,700	739	0.2
14141_14142	14141	14142	16,506	479	22.0	16,227	512	22.1	-279	34	0.1
14142_14144	14142	14144	5,846	216	21.9	5,648	300	21.7	-198	83	-0.1
14136_14211	14136	14211	6,196	223	11.6	6,483	178	11.3	287	-45	-0.3
14129_14212	14129	14212	11,617	755	2.1	14,181	730	3.7	2,564	-25	1.6
14211_14219	14211	14219	1,919	0	21.3	2,308	0	21.0	389	0	-0.3
14142_14222	14142	14222	817	18	20.2	819	18	20.2	2	0	0.0
12399_14235	12399	14235	1,814	62	22.5	1,853	63	22.5	39	1	0.0
14219_14235	14219	14235	1,167	6	23.7	1,268	8	23.7	101	2	0.0
14251_14253	14251	14253	12,952	181	30.8	12,610	190	30.9	-342	9	0.0
12904_14284	12904	14284	7,636	657	24.0	7,839	510	24.0	203	-147	0.0
12358_14285	12358	14285	0	0	8.9	0	0	8.9	0	0	0.0
12417_14288	12417	14288	9,313	941	11.2	9,571	954	11.1	258	13	-0.1
12422_14288	12422	14288	720	699	13.4	720	697	13.4	0	-2	0.0
13124_14288	13124	14288	5,589	777	16.0	5,565	780	16.0	-24	3	0.0
12489_14289	12489	14289	5,374	177	19.9	5,426	182	20.1	52	5	0.2
14069_14294	14069	14294	38,886	3,578	18.7	38,801	3,575	18.1	-85	-2	-0.6
14070_14294	14070	14294	31,115	2,738	12.0	32,151	2,649	11.0	1,036	-89	-1.0
14099_14296	14099	14296	5,073	299	25.7	7,606	223	25.3	2,533	-77	-0.4

Road	A node	B node	Without the Proposed Scheme			With the Proposed Scheme			Change in AADT	Change in HDVs	Change in Speed
			AADT	HDVs	Speed (kph) ¹	AADT	HDVs	Speed (kph) ¹			
14069_14297	14069	14297	3,740	165	25.4	4,563	227	24.7	823	63	-0.7
14069_14299	14069	14299	37,433	2,807	12.0	39,135	2,679	11.7	1,702	-128	-0.2
14099_14301	14099	14301	5,767	415	4.5	7,830	257	2.1	2,063	-158	-2.3
14067_14303	14067	14303	37,250	2,906	5.4	38,296	2,987	4.3	1,046	82	-1.1
14301_14303	14301	14303	34,060	1,941	11.7	36,294	1,940	11.1	2,234	-2	-0.6
14305_14307	14305	14307	1,286	1,112	2.6	1,391	1,065	2.6	105	-47	-0.1
14065_14308	14065	14308	11,553	878	2.6	11,662	1,258	2.5	109	380	-0.1
14308_14312	14308	14312	18,316	1,227	5.7	20,915	1,526	4.6	2,599	299	-1.1
14305_14313	14305	14313	37,645	1,431	30.2	35,270	1,278	30.8	-2,375	-153	0.6
14312_14313	14312	14313	12,424	944	31.5	13,447	1,437	31.3	1,023	493	-0.1
14112_14314	14112	14314	8,698	496	33.0	11,303	430	33.0	2,605	-66	0.0
14283_14315	14283	14315	41,749	2,714	23.8	44,226	2,964	23.9	2,477	251	0.1
14310_14316	14310	14316	5,877	206	8.1	7,064	212	7.5	1,187	6	-0.6
14311_14318	14311	14318	6,077	231	28.8	5,844	269	28.8	-233	38	0.0
14292_14320	14292	14320	8,953	340	20.2	7,394	416	21.6	-1,559	76	1.4
14318_14321	14318	14321	7,099	248	25.5	6,920	278	24.5	-179	30	-1.0
14321_14322	14321	14322	5,938	184	28.9	4,721	261	29.0	-1,217	77	0.1
14319_14323	14319	14323	1,225	1,181	5.8	1,226	1,178	5.9	1	-2	0.0
14309_14324	14309	14324	8,629	2,200	3.1	9,544	1,958	3.0	915	-242	-0.1
14316_14325	14316	14325	7,060	233	5.0	7,978	249	3.5	918	16	-1.4

Road	A node	B node	Without the Proposed Scheme			With the Proposed Scheme			Change in AADT	Change in HDVs	Change in Speed
			AADT	HDVs	Speed (kph) ¹	AADT	HDVs	Speed (kph) ¹			
14324_14326	14324	14326	247	18	15.9	288	53	16.5	41	35	0.6
14323_14329	14323	14329	1,225	1,181	25.8	1,226	1,178	25.8	1	-2	0.0
14329_14333	14329	14333	1,225	1,181	7.7	1,226	1,178	7.7	1	-2	0.0
14325_14334	14325	14334	3,764	158	9.9	3,344	182	10.2	-420	24	0.3
14280_14336	14280	14336	3,932	515	8.1	3,442	560	8.3	-490	45	0.3
14335_14336	14335	14336	3,774	166	4.8	3,501	124	5.3	-273	-42	0.5
14334_14338	14334	14338	11,286	632	2.9	11,049	646	3.1	-237	14	0.2
14281_14340	14281	14340	609	72	3.7	596	75	3.7	-13	3	0.0
14292_14343	14292	14343	6,853	164	3.9	6,673	168	4.4	-180	3	0.5
14309_14343	14309	14343	5,309	292	7.3	4,894	289	7.6	-415	-3	0.3
14326_14343	14326	14343	4,094	94	12.8	3,132	161	13.6	-962	67	0.9
14340_14344	14340	14344	20,621	3,052	6.9	19,811	3,045	7.0	-810	-7	0.0
14055_14350	14055	14350	19,258	2,735	2.8	19,105	2,747	2.8	-153	13	0.0
14344_14353	14344	14353	10,977	1,658	4.7	10,692	1,659	4.8	-285	2	0.1
12358_14358	12358	14358	4,754	1,550	3.9	4,783	1,557	3.7	29	7	-0.2
14302_14363	14302	14363	4,401	660	32.0	4,361	677	32.0	-40	17	0.0
14297_14364	14297	14364	3,584	125	26.3	4,579	119	26.1	995	-7	-0.2
14304_14364	14304	14364	1,246	66	28.2	2,675	31	27.4	1,429	-35	-0.8
14282_14365	14282	14365	3,106	267	20.5	2,417	324	22.0	-689	57	1.4
14336_14365	14336	14365	1,668	30	20.7	1,714	26	20.5	46	-4	-0.2

Road	A node	B node	Without the Proposed Scheme			With the Proposed Scheme			Change in AADT	Change in HDVs	Change in Speed
			AADT	HDVs	Speed (kph) ¹	AADT	HDVs	Speed (kph) ¹			
14304_14368	14304	14368	2,089	71	32.0	2,609	64	32.0	520	-7	0.0
14310_14369	14310	14369	4,447	440	23.0	5,107	504	22.9	660	64	-0.1
14325_14370	14325	14370	4,202	357	22.9	4,149	362	22.9	-53	5	0.0
14291_14371	14291	14371	560	90	22.3	507	54	22.3	-53	-36	0.0
14326_14373	14326	14373	3,774	166	28.0	3,501	124	28.0	-273	-42	0.0
14335_14373	14335	14373	9,865	819	28.0	8,800	828	28.0	-1,065	9	0.0
14352_14378	14352	14378	2,243	103	32.0	2,275	106	32.0	32	2	0.0
14288_14381	14288	14381	5,900	142	32.0	6,068	148	32.0	168	7	0.0
14280_14382	14280	14382	1,149	179	19.5	1,021	194	19.6	-128	15	0.0
14281_14382	14281	14382	7,798	281	16.3	7,666	271	16.0	-132	-10	-0.3
14282_14382	14282	14382	275	34	21.0	268	34	21.0	-7	-1	0.0
14004_14388	14004	14388	44,530	2,984	1.5	44,882	3,321	1.5	352	337	0.0
14283_14388	14283	14388	41,329	2,149	1.7	40,233	2,475	1.7	-1,096	326	0.0
14284_14388	14284	14388	11,378	671	7.1	12,282	605	7.1	904	-66	-0.1
14067_14393	14067	14393	38,931	2,531	34.0	36,662	2,634	34.0	-2,269	104	0.0
14305_14393	14305	14393	37,108	2,894	24.3	38,259	3,121	24.1	1,151	227	-0.2
14070_14418	14070	14418	38,222	3,516	29.2	38,236	3,523	29.3	14	7	0.1
14109_14418	14109	14418	29,859	3,016	30.9	31,128	2,905	30.8	1,269	-110	-0.1
14338_14435	14338	14435	4,010	80	28.3	4,011	80	28.3	1	0	0.0
14342_14436	14342	14436	171	170	30.0	171	169	30.0	0	-1	0.0

Road	A node	B node	Without the Proposed Scheme			With the Proposed Scheme			Change in AADT	Change in HDVs	Change in Speed
			AADT	HDVs	Speed (kph) ¹	AADT	HDVs	Speed (kph) ¹			
14344_14436	14344	14436	21,614	2,896	28.0	21,519	2,912	28.0	-95	16	0.0
14337_14437	14337	14437	10,517	1,283	28.5	10,532	1,284	28.5	15	1	0.0
14342_14438	14342	14438	8,915	1,614	23.0	8,748	1,631	23.0	-167	17	0.1
14437_14438	14437	14438	10,346	1,107	23.8	10,361	1,118	23.8	15	11	0.0
14344_14448	14344	14448	171	170	40.0	171	169	40.0	0	-1	0.0
14282_14449	14282	14449	9,272	566	25.9	9,329	581	25.8	57	15	-0.1
14347_14449	14347	14449	171	170	40.0	171	169	40.0	0	-1	0.0
14347_14450	14347	14450	22,144	2,369	40.0	22,171	2,400	40.0	27	30	0.0
14448_14450	14448	14450	171	170	30.0	171	169	30.0	0	-1	0.0
14449_14451	14449	14451	171	170	16.3	171	169	16.3	0	-1	0.0
14324_14491	14324	14491	12,629	2,804	31.0	11,568	3,017	31.0	-1,061	214	0.0
14327_14491	14327	14491	10,200	877	31.0	8,938	1,021	31.0	-1,262	144	0.0
14327_14493	14327	14493	18,371	3,123	31.0	17,987	3,158	31.0	-384	35	0.0
14110_14505	14110	14505	10,712	1,178	23.1	10,684	1,194	23.1	-28	16	0.0
12413_14522	12413	14522	4,326	1,458	16.8	4,297	1,523	16.8	-29	65	0.0
14099_14525	14099	14525	1,402	803	32.0	1,489	756	32.0	87	-47	0.0
14301_14526	14301	14526	33,448	1,907	8.1	34,716	1,899	7.6	1,268	-7	-0.5
14521_14526	14521	14526	34,869	2,650	13.3	37,737	2,545	10.6	2,868	-105	-2.7
14525_14526	14525	14526	1,402	803	2.1	1,488	758	2.0	86	-46	-0.1
14067_14527	14067	14527	4,756	152	21.4	0	0	20.3	-4,756	-152	-1.1

Road	A node	B node	Without the Proposed Scheme			With the Proposed Scheme			Change in AADT	Change in HDVs	Change in Speed
			AADT	HDVs	Speed (kph) ¹	AADT	HDVs	Speed (kph) ¹			
14320_14527	14320	14527	6,014	210	24.3	3,699	196	24.0	-2,315	-15	-0.3
14343_14528	14343	14528	2,112	114	22.0	1,380	78	22.3	-732	-36	0.3
14321_14529	14321	14529	1,139	57	25.0	2,162	31	25.0	1,023	-26	0.0
14313_14531	14313	14531	8,040	1,190	32.0	10,105	1,162	32.0	2,065	-28	0.0
14301_14543	14301	14543	18,886	2,701	11.7	21,276	2,328	9.1	2,390	-373	-2.6
14309_14543	14309	14543	14,201	1,676	27.4	14,698	1,578	27.6	497	-97	0.2
14304_14544	14304	14544	3,505	266	19.4	2,928	277	19.5	-577	10	0.1
14309_14544	14309	14544	3,707	67	20.1	3,546	88	20.2	-161	22	0.1
14381_14547	14381	14547	5,900	142	26.5	6,068	148	26.5	168	7	0.0
14333_14548	14333	14548	1,226	1,181	1.5	1,226	1,177	1.5	0	-3	0.0
14283_14549	14283	14549	13,316	812	28.5	13,837	782	28.5	521	-30	0.0
14549_14550	14549	14550	1,841	20	28.6	1,924	26	28.5	83	6	0.0
14308_14551	14308	14551	3,450	1,432	30.0	2,754	1,274	30.0	-696	-158	0.0
14307_14552	14307	14552	2,511	1,175	30.0	3,106	1,134	30.0	595	-41	0.0
14312_14552	14312	14552	7,293	481	30.0	9,423	448	30.0	2,130	-33	0.0
14312_14553	14312	14553	1,039	998	30.0	1,039	998	30.0	0	0	0.0
14319_14553	14319	14553	9,143	2,213	4.6	9,354	2,242	2.0	211	30	-2.6
14313_14565	14313	14565	50,062	2,353	23.1	48,707	2,835	22.3	-1,355	482	-0.8
14315_14565	14315	14565	41,749	2,714	16.6	44,226	2,964	16.5	2,477	251	-0.1
14099_14571	14099	14571	869	836	28.2	866	838	28.2	-3	2	0.0

Road	A node	B node	Without the Proposed Scheme			With the Proposed Scheme			Change in AADT	Change in HDVs	Change in Speed
			AADT	HDVs	Speed (kph) ¹	AADT	HDVs	Speed (kph) ¹			
14303_14571	14303	14571	978	921	15.4	980	915	15.4	2	-7	0.0
14320_14572	14320	14572	6,714	383	21.7	6,474	386	21.7	-240	3	0.0
14325_14572	14325	14572	3,636	55	23.0	4,725	67	23.0	1,089	13	0.0
14435_14572	14435	14572	17	0	20.5	20	0	20.5	3	0	0.0
14435_14573	14435	14573	3,993	80	30.4	3,991	80	30.4	-2	0	0.0
14543_14574	14543	14574	5,182	285	30.0	4,455	431	30.0	-727	146	0.0
14280_14580	14280	14580	2,598	132	7.2	3,050	76	7.1	452	-56	-0.2
14340_14580	14340	14580	5,230	1,773	5.0	4,785	1,900	5.0	-445	127	0.1
14493_14580	14493	14580	18,371	3,123	3.7	17,986	3,158	3.8	-385	35	0.1
14553_14607	14553	14607	0	0	25.0	0	0	25.0	0	0	0.0
14070_14608	14070	14608	2,323	186	32.0	2,456	189	32.0	133	4	0.0
14296_14609	14296	14609	5,048	288	29.7	7,587	216	29.1	2,539	-72	-0.6
14300_14612	14300	14612	744	53	21.6	758	53	21.6	14	0	0.0
14236_14614	14236	14614	11,951	621	38.0	12,129	437	38.0	178	-184	0.0
14250_14614	14250	14614	4,995	250	38.0	4,781	0	38.0	-214	-250	0.0
14612_14615	14612	14615	1,536	109	25.0	1,534	109	25.0	-2	0	0.0
14070_14617	14070	14617	0	0	20.8	0	0	20.8	0	0	0.0
14616_14617	14616	14617	1,628	2	22.6	1,546	2	22.6	-82	0	0.0
14418_14618	14418	14618	54	0	23.3	54	0	23.3	0	0	0.0
14618_14619	14618	14619	54	0	25.0	54	0	25.0	0	0	0.0

Road	A node	B node	Without the Proposed Scheme			With the Proposed Scheme			Change in AADT	Change in HDVs	Change in Speed
			AADT	HDVs	Speed (kph) ¹	AADT	HDVs	Speed (kph) ¹			
14300_14621	14300	14621	867	422	26.3	764	473	26.3	-103	51	0.0
14302_14621	14302	14621	2,553	664	28.8	3,061	579	28.8	508	-85	-0.1
14612_14622	14612	14622	1,584	198	24.4	1,583	198	24.4	-1	0	0.0
14621_14622	14621	14622	0	0	23.7	0	0	23.7	0	0	0.0
14302_14623	14302	14623	3,439	272	23.5	3,028	271	23.5	-411	-1	0.0
14304_14623	14304	14623	2,949	145	29.0	3,125	164	29.0	176	20	0.0
14624_14625	14624	14625	384	14	13.6	310	16	13.6	-74	2	0.0
14250_14627	14250	14627	11,155	535	38.0	11,604	383	38.0	449	-153	0.0
14211_14648	14211	14648	4,347	222	32.0	4,534	123	32.0	187	-98	0.0
14136_14650	14136	14650	7,993	312	36.0	8,528	380	36.0	535	68	0.0
14137_14650	14137	14650	5,477	444	36.0	6,016	276	36.0	539	-167	0.0
14142_14651	14142	14651	8,267	265	21.4	8,259	245	21.5	-8	-19	0.1
14651_14652	14651	14652	1,961	82	20.0	2,173	61	19.9	212	-22	-0.1
14113_14656	14113	14656	7,825	235	18.1	8,499	166	17.9	674	-69	-0.2
14648_14656	14648	14656	4,347	222	17.6	4,534	124	17.1	187	-97	-0.5
14526_14673	14526	14673	279	1	21.3	681	3	22.9	402	1	1.6
14673_14674	14673	14674	275	1	25.0	278	1	25.0	3	0	0.0
14129_14680	14129	14680	8,151	921	29.6	6,032	1,325	29.7	-2,119	404	0.0
14130_14680	14130	14680	950	852	24.6	1,754	497	24.6	804	-355	-0.1
14136_14690	14136	14690	4,110	90	30.8	4,030	0	30.8	-80	-90	0.0

Road	A node	B node	Without the Proposed Scheme			With the Proposed Scheme			Change in AADT	Change in HDVs	Change in Speed
			AADT	HDVs	Speed (kph) ¹	AADT	HDVs	Speed (kph) ¹			
14673_14692	14673	14692	3	0	20.6	403	0	20.6	400	0	0.0
14138_14695	14138	14695	7,311	709	31.6	10,081	527	31.5	2,770	-182	-0.1
14691_14695	14691	14695	181	8	20.6	5	0	20.2	-176	-8	-0.4
14693_14695	14693	14695	814	4	20.8	890	6	20.6	76	2	-0.3
14680_14696	14680	14696	7,850	926	30.3	5,759	1,255	30.3	-2,091	328	0.1
14691_14697	14691	14697	2,776	14	19.8	4,140	3	19.6	1,364	-10	-0.2
14696_14697	14696	14697	991	106	21.3	0	0	21.0	-991	-106	-0.4
14222_14698	14222	14698	6,788	1,561	26.3	6,750	1,880	26.3	-38	319	0.0
14651_14698	14651	14698	0	0	20.3	0	0	20.3	0	0	-0.1
14131_14699	14131	14699	19,146	1,589	30.5	21,742	1,298	30.4	2,596	-291	-0.1
14073_14701	14073	14701	5,735	1,044	26.5	5,809	1,687	26.3	74	643	-0.2
14115_14701	14115	14701	12,412	757	23.5	14,437	972	19.0	2,025	215	-4.5
14655_14701	14655	14701	2,642	37	24.8	2,116	0	25.1	-526	-37	0.3
14117_14704	14117	14704	736	29	15.2	639	32	14.5	-97	3	-0.7
14251_14704	14251	14704	7,623	335	28.7	7,976	239	28.7	353	-96	0.0
14692_14705	14692	14705	371	9	25.0	367	9	25.0	-4	0	0.0
14488_14707	14488	14707	2,485	37	20.8	2,551	17	20.7	66	-20	0.0
14706_14707	14706	14707	1,613	32	15.2	1,589	32	15.2	-24	0	0.0
14544_14708	14544	14708	2,365	116	18.9	2,550	182	18.8	185	66	-0.1
14707_14708	14707	14708	1,483	27	22.0	1,589	6	22.0	106	-21	0.0

Road	A node	B node	Without the Proposed Scheme			With the Proposed Scheme			Change in AADT	Change in HDVs	Change in Speed
			AADT	HDVs	Speed (kph) ¹	AADT	HDVs	Speed (kph) ¹			
14299_14709	14299	14709	63	0	19.8	959	0	19.8	896	0	0.0
14324_14711	14324	14711	3,339	107	25.8	3,306	115	25.9	-33	8	0.1
14322_14712	14322	14712	5,938	184	22.2	4,721	261	22.2	-1,217	77	0.0
14711_14713	14711	14713	2,429	29	21.1	2,277	32	21.1	-152	3	0.0
14712_14713	14712	14713	0	0	17.4	0	0	17.4	0	0	0.0
14087_14714	14087	14714	7,833	305	25.7	7,981	324	25.5	148	19	-0.1
14604_14714	14604	14714	9,397	329	10.1	9,928	373	9.7	531	44	-0.4
14317_14715	14317	14715	314	0	23.9	556	0	23.8	242	0	-0.1
14713_14715	14713	14715	2,397	0	20.9	2,246	0	20.9	-151	0	0.0
14132_14716	14132	14716	6,582	375	15.9	7,489	293	14.6	907	-82	-1.3
14318_14720	14318	14720	5,344	144	22.8	5,378	148	22.8	34	4	0.0
14719_14720	14719	14720	6,973	328	12.2	6,973	328	12.2	0	0	0.0
14118_14721	14118	14721	0	0	12.6	1	0	12.3	1	0	-0.2
14609_14721	14609	14721	5,047	288	23.4	4,963	338	26.2	-84	50	2.8
14112_14722	14112	14722	11,251	371	25.3	11,995	376	25.0	744	5	-0.3
14113_14722	14113	14722	5,786	226	30.0	6,488	104	30.0	702	-122	0.0
14115_14724	14115	14724	2,438	51	25.0	224	0	25.0	-2,214	-51	0.0
14723_14725	14723	14725	815	54	23.6	0	0	23.7	-815	-54	0.1
14724_14725	14724	14725	2,438	51	17.1	0	0	18.1	-2,438	-51	1.1
13391_14726	13391	14726	2,401	0	20.6	2,461	0	20.5	60	0	0.0

Road	A node	B node	Without the Proposed Scheme			With the Proposed Scheme			Change in AADT	Change in HDVs	Change in Speed
			AADT	HDVs	Speed (kph) ¹	AADT	HDVs	Speed (kph) ¹			
14004_14726	14004	14726	2,079	0	23.9	2,208	0	23.9	129	0	0.0
14235_14726	14235	14726	2,981	66	24.4	3,121	72	24.4	140	6	0.0
14436_14729	14436	14729	3,162	101	22.4	3,214	103	22.4	52	2	0.0
14720_14729	14720	14729	4,011	229	22.6	4,048	231	22.6	37	2	0.0
12193_14736	12193	14736	11,680	467	21.3	11,206	341	21.8	-474	-126	0.5
13387_14736	13387	14736	1,228	0	8.9	1,229	0	8.9	1	0	0.0
14613_14736	14613	14736	5,428	141	12.5	4,895	162	12.9	-533	21	0.4
14627_14736	14627	14736	11,155	535	21.6	11,604	383	20.9	449	-153	-0.7
12159_14737	12159	14737	2,612	47	15.4	3,183	59	13.5	571	12	-1.9
14219_14737	14219	14737	1,539	0	17.4	1,865	0	16.9	326	0	-0.5
14118_14744	14118	14744	1,942	70	17.3	2,542	66	17.4	600	-4	0.0
14323_14746	14323	14746	2,465	271	27.6	1,925	353	27.7	-540	82	0.0
14369_14746	14369	14746	0	0	18.2	0	0	18.5	0	0	0.3
14292_14748	14292	14748	7	3	22.1	71	1	22.3	64	-2	0.2
14527_14748	14527	14748	2,084	48	20.4	0	0	20.4	-2,084	-48	0.0
14528_14748	14528	14748	6,854	343	26.2	4,730	541	26.5	-2,124	198	0.3
14289_14751	14289	14751	9,880	316	21.6	9,410	391	21.8	-470	75	0.1
14371_14751	14371	14751	52	42	17.2	2	0	17.3	-50	-42	0.1
14654_14753	14654	14753	92	86	24.9	83	6	24.9	-9	-80	0.0
14690_14753	14690	14753	2,425	87	25.2	1,610	67	24.6	-815	-20	-0.6

Road	A node	B node	Without the Proposed Scheme			With the Proposed Scheme			Change in AADT	Change in HDVs	Change in Speed
			AADT	HDVs	Speed (kph) ¹	AADT	HDVs	Speed (kph) ¹			
14753_14754	14753	14754	183	0	19.5	307	0	19.5	124	0	0.0
14654_14755	14654	14755	206	30	26.3	277	17	26.3	71	-13	0.0
14655_14755	14655	14755	617	95	25.0	1,206	14	24.9	589	-81	0.0
14754_14755	14754	14755	1,385	12	14.2	1,212	6	14.2	-173	-6	0.0
14115_14756	14115	14756	7,836	932	24.0	7,058	1,075	24.3	-778	142	0.3
14755_14756	14755	14756	2	2	16.8	0	0	16.8	-2	-2	0.0
14695_14758	14695	14758	7,385	709	17.3	9,844	549	16.2	2,459	-160	-1.1
14758_14760	14758	14760	7,367	692	24.2	9,822	563	24.2	2,455	-130	0.0
14691_14761	14691	14761	1,393	0	17.7	960	0	17.8	-433	0	0.1
14758_14761	14758	14761	225	19	18.6	165	132	19.1	-60	113	0.5
14690_14762	14690	14762	3,655	205	17.1	5,028	32	17.0	1,373	-172	-0.1
14761_14762	14761	14762	1,525	18	16.7	976	27	17.0	-549	9	0.3
14761_14763	14761	14763	519	10	20.0	592	14	20.0	73	4	0.0
14763_14765	14763	14765	520	10	13.5	592	14	13.5	72	4	0.0
14764_14765	14764	14765	0	0	25.6	0	0	25.6	0	0	0.0
14764_14766	14764	14766	0	0	20.0	0	0	20.0	0	0	0.0
14697_14767	14697	14767	328	98	17.9	130	0	21.9	-198	-98	4.0
14765_14767	14765	14767	0	0	18.6	50	0	18.6	50	0	0.0
14299_14768	14299	14768	37,510	2,813	11.4	39,221	2,685	10.7	1,711	-128	-0.7
14521_14768	14521	14768	33,791	2,737	5.7	34,657	2,666	5.5	866	-71	-0.1

Road	A node	B node	Without the Proposed Scheme			With the Proposed Scheme			Change in AADT	Change in HDVs	Change in Speed
			AADT	HDVs	Speed (kph) ¹	AADT	HDVs	Speed (kph) ¹			
14521_14769	14521	14769	3,295	402	19.0	3,732	327	18.6	437	-75	-0.5
14709_14769	14709	14769	572	15	22.9	1,106	24	22.8	534	10	0.0
14744_14769	14744	14769	2,021	91	2.3	2,200	77	1.6	179	-14	-0.7
14319_14770	14319	14770	78	0	23.3	276	0	23.3	198	0	0.0
14607_14770	14607	14770	0	0	19.5	0	0	19.5	0	0	0.0
14751_14771	14751	14771	5,494	379	22.5	5,047	435	22.6	-447	56	0.1
14770_14771	14770	14771	0	0	17.1	6	0	17.3	6	0	0.3
14329_14772	14329	14772	5,549	422	26.6	5,921	413	26.5	372	-9	-0.1
14771_14772	14771	14772	0	0	17.2	0	0	17.1	0	0	-0.1
14129_14775	14129	14775	1,810	239	23.1	1,473	305	23.1	-337	66	0.0
14766_14775	14766	14775	0	0	12.1	0	0	12.1	0	0	0.0
14767_14775	14767	14775	186	0	23.2	177	3	23.2	-9	3	0.0
14317_14796	14317	14796	5,653	153	28.2	6,855	113	28.2	1,202	-40	0.0
14368_14796	14368	14796	2,089	71	19.6	2,609	64	19.5	520	-7	-0.1
14529_14797	14529	14797	1,139	57	18.9	2,162	31	18.8	1,023	-26	-0.1
14796_14797	14796	14797	5,843	123	27.7	6,418	101	27.7	575	-21	0.0
14297_14804	14297	14804	579	76	20.5	1,751	69	20.1	1,172	-6	-0.5
14692_14804	14692	14804	422	55	21.0	738	38	20.7	316	-17	-0.2
14565_14830	14565	14830	554	17	20.0	553	20	20.0	-1	3	0.0
14130_14902	14130	14902	334	331	30.6	334	343	30.6	0	12	0.0

Road	A node	B node	Without the Proposed Scheme			With the Proposed Scheme			Change in AADT	Change in HDVs	Change in Speed
			AADT	HDVs	Speed (kph) ¹	AADT	HDVs	Speed (kph) ¹			
14251_14902	14251	14902	2,032	307	14.2	4,010	163	16.5	1,978	-144	2.3
14709_14903	14709	14903	1,168	107	20.0	2,348	38	20.0	1,180	-70	0.0
14116_14904	14116	14904	644	25	17.8	747	27	17.8	103	2	0.0
14744_14904	14744	14904	10	0	15.9	342	0	15.6	332	0	-0.3
14903_14904	14903	14904	1,168	107	14.0	2,348	38	12.8	1,180	-70	-1.3
14117_14905	14117	14905	6	6	17.6	1	5	17.5	-5	-1	-0.1
14118_14905	14118	14905	40	1	15.8	40	1	15.8	0	0	-0.1
14904_14905	14904	14905	790	89	19.1	1,304	32	19.1	514	-58	0.0
14721_14906	14721	14906	5,413	309	29.3	7,879	226	29.1	2,466	-82	-0.2
14905_14906	14905	14906	795	94	19.1	1,304	32	19.4	509	-62	0.3
14132_14907	14132	14907	11,256	101	33.0	11,110	140	33.0	-146	39	0.0
14307_14908	14307	14908	5,624	388	22.1	7,163	366	20.3	1,539	-22	-1.8
14310_14908	14310	14908	1,161	109	30.0	1,584	150	30.0	423	41	0.0
14527_14908	14527	14908	4,495	117	11.8	4,735	174	11.0	240	57	-0.9
14754_14909	14754	14909	1,092	2	25.0	1,520	2	25.0	428	0	0.0
14909_14910	14909	14910	1,092	2	25.0	1,520	2	25.0	428	0	0.0
14655_14911	14655	14911	5	0	23.8	315	0	23.8	310	0	0.0
14656_14911	14656	14911	1,297	0	23.5	1,931	31	23.5	634	31	0.0
14910_14911	14910	14911	1,092	2	15.1	1,520	2	14.7	428	0	-0.3
14132_14912	14132	14912	4,981	229	15.1	4,926	195	15.2	-55	-35	0.1

Road	A node	B node	Without the Proposed Scheme			With the Proposed Scheme			Change in AADT	Change in HDVs	Change in Speed
			AADT	HDVs	Speed (kph) ¹	AADT	HDVs	Speed (kph) ¹			
14221_14912	14221	14912	7,682	246	22.6	8,631	176	22.5	949	-70	0.0
14902_14912	14902	14912	1,205	65	23.8	1,189	46	23.7	-16	-19	-0.1
14704_14952	14704	14952	6,959	320	30.1	7,157	240	30.1	198	-80	0.0
14906_14952	14906	14952	6,575	381	26.9	8,620	292	26.6	2,045	-90	-0.2
14952_14953	14952	14953	58	15	32.0	43	11	32.0	-15	-4	0.0
14136_14954	14136	14954	5,359	456	35.0	6,058	0	35.0	699	-456	0.0
14236_14954	14236	14954	8,591	404	35.0	8,828	0	35.0	237	-404	0.0
14212_14965	14212	14965	13,568	773	33.1	14,344	905	30.1	776	131	-3.0
14756_14965	14756	14965	7,039	950	28.0	7,059	968	28.0	20	18	0.0
14067_14971	14067	14971	5,584	56	16.9	0	0	24.7	-5,584	-56	7.8
14701_14972	14701	14972	0	0	21.4	0	0	21.4	0	0	0.0
14342_15060	14342	15060	8,782	1,150	26.4	8,786	1,155	26.3	4	5	0.0
14437_15060	14437	15060	171	170	32.0	171	169	32.0	0	-1	0.0
14729_15060	14729	15060	4,011	229	24.6	4,048	231	24.6	37	2	0.0
14073_15501	14073	15501	1,902	23	23.9	1,633	12	23.9	-269	-11	0.0
14655_15501	14655	15501	1,589	24	24.5	3,373	30	24.4	1,784	6	-0.1
14722_15501	14722	15501	485	88	24.0	604	75	23.9	119	-13	-0.1
14073_15502	14073	15502	1,176	58	19.9	1,786	31	18.8	610	-27	-1.1
15502_15503	15502	15503	930	105	22.5	0	0	22.6	-930	-105	0.2
14972_15504	14972	15504	0	0	20.3	0	0	20.3	0	0	0.0

Road	A node	B node	Without the Proposed Scheme			With the Proposed Scheme			Change in AADT	Change in HDVs	Change in Speed
			AADT	HDVs	Speed (kph) ¹	AADT	HDVs	Speed (kph) ¹			
15503_15504	15503	15504	0	0	18.5	0	0	18.5	0	0	0.0
15502_15505	15502	15505	0	0	25.0	0	0	25.0	0	0	0.0
15504_15505	15504	15505	0	0	25.0	0	0	25.0	0	0	0.0
15502_15507	15502	15507	893	36	21.0	1,965	36	20.7	1,072	0	-0.3
15506_15507	15506	15507	178	0	19.3	0	0	19.2	-178	0	-0.1
14306_15509	14306	15509	1,219	105	16.3	821	47	14.0	-398	-58	-2.3
15507_15509	15507	15509	1,162	38	20.8	2,070	40	20.6	908	2	-0.2
15508_15510	15508	15510	0	0	16.3	0	0	16.5	0	0	0.2
14723_15511	14723	15511	3,567	178	15.9	0	0	14.8	-3,567	-178	-1.1
14971_15511	14971	15511	1,709	56	20.9	0	0	19.8	-1,709	-56	-1.1
14756_15513	14756	15513	0	0	25.0	0	0	25.0	0	0	0.0
15503_15516	15503	15516	0	0	25.0	0	0	25.0	0	0	0.0
15506_15516	15506	15516	0	0	9.1	0	0	9.2	0	0	0.1
15510_15516	15510	15516	1,118	3	17.0	0	0	17.4	-1,118	-3	0.4
14365_15900	14365	15900	2,668	293	18.5	2,648	298	18.5	-20	4	0.0
14366_15900	14366	15900	7,863	810	23.2	7,959	792	23.2	96	-18	0.0
14108_16000	14108	16000	7,292	620	5.3	7,742	659	5.2	450	39	-0.1
14108_16001	14108	16001	4,028	157	12.4	4,351	185	12.0	323	28	-0.3
16000_16045	16000	16045	7,356	633	26.6	7,873	628	26.4	517	-4	-0.1
14107_16142	14107	16142	8,676	998	22.3	9,049	1,007	22.1	373	9	-0.2

Road	A node	B node	Without the Proposed Scheme			With the Proposed Scheme			Change in AADT	Change in HDVs	Change in Speed
			AADT	HDVs	Speed (kph) ¹	AADT	HDVs	Speed (kph) ¹			
14110_16177	14110	16177	35,195	2,780	17.8	35,168	2,748	17.9	-27	-32	0.1
16177_16180	16177	16180	8,892	809	24.1	8,915	809	24.1	23	-1	0.0
16177_16251	16177	16251	25,067	1,805	31.4	25,005	1,749	31.4	-62	-56	0.0
16251_16252	16251	16252	25,740	1,828	29.9	25,693	1,797	29.9	-47	-30	0.0
14087_16378	14087	16378	3,535	85	25.0	3,716	78	25.0	181	-7	0.0
16000_16378	16000	16378	6,095	201	25.0	6,240	210	25.0	145	9	0.0
14109_16387	14109	16387	11,728	1,489	32.0	12,208	1,511	32.0	480	22	0.0
12149_12055	12149	12055	113	52	20.6	103	55	20.5	-10	4	0.0
12454_12049	12454	12049	2,945	100	18.1	2,777	126	18.2	-168	26	0.1
12454_12055	12454	12055	140	1	19.4	170	3	19.2	30	2	-0.2
12501_12499	12501	12499	11,067	1,162	13.1	11,044	1,166	12.6	-23	4	-0.5
12871_12501	12871	12501	17,193	1,994	44.9	17,076	2,011	44.9	-117	16	0.0
12917_12508	12917	12508	11,979	431	87.7	12,156	447	87.7	177	15	0.0
13283_12055	13283	12055	2,259	540	26.5	2,301	542	26.5	42	2	0.1
12055_12149	12055	12149	341	165	24.1	389	124	24.1	48	-41	0.0
12049_12454	12049	12454	2,052	6	24.4	2,034	11	24.4	-18	5	0.0
12055_12454	12055	12454	319	0	20.2	344	0	20.2	25	0	-0.1
12447_12518	12447	12518	5,779	1,682	30.0	5,731	1,687	30.0	-48	6	0.0
12460_12518	12460	12518	592	21	17.8	603	22	17.8	11	1	0.0
12501_12870	12501	12870	8,670	338	24.2	8,548	405	24.2	-122	67	0.0

Road	A node	B node	Without the Proposed Scheme			With the Proposed Scheme			Change in AADT	Change in HDVs	Change in Speed
			AADT	HDVs	Speed (kph) ¹	AADT	HDVs	Speed (kph) ¹			
12869_12870	12869	12870	31,265	1,469	60.9	30,990	1,505	61.0	-275	35	0.1
12508_12871	12508	12871	21,834	1,747	27.6	21,647	1,766	27.6	-187	19	0.0
12505_12874	12505	12874	34,731	1,111	59.5	34,631	1,137	59.6	-100	25	0.1
12518_12916	12518	12916	6,555	1,717	36.0	6,523	1,723	36.0	-32	5	0.0
12055_13283	12055	13283	3,460	564	26.1	3,703	513	26.1	243	-51	0.0

CFA001 Operational Traffic Data

Table 5: Traffic data used in the operational assessment

Road	A node	B node	Without the Proposed Scheme			With the Proposed Scheme			Change in AADT	Change in HDVs	Change in Speed
			AADT	HDVs	Speed (kph) ¹	AADT	HDVs	Speed (kph) ²			
12155_12154	12155	12154	2,115	93	14.3	2,119	93	14.3	4	0	0.0
12225_12224	12225	12224	46,306	2,084	6.6	45,483	2,183	6.6	-823	99	0.0
12226_12224	12226	12224	38,958	2,299	11.2	38,519	2,388	11.4	-439	90	0.2
12337_12224	12337	12224	8,766	1,289	1.1	8,882	1,288	1.0	116	-1	-0.1
12337_12225	12337	12225	3,048	698	17.4	3,100	707	17.4	52	9	-0.1
12381_12380	12381	12380	8,861	487	21.5	9,087	545	21.4	226	58	-0.1
12401_12164	12401	12164	1,592	146	25.0	1,589	145	25.0	-3	-2	0.0
12477_12291	12477	12291	37,429	2,059	11.8	36,046	2,127	12.0	-1,383	68	0.2
12477_12402	12477	12402	4,126	256	28.8	4,156	254	28.8	30	-2	0.0
12478_12476	12478	12476	43,253	2,898	5.6	43,671	2,970	5.5	418	72	-0.1
12478_12477	12478	12477	39,368	2,323	3.5	38,210	2,407	3.6	-1,158	85	0.1
12480_12228	12480	12228	4,517	5	7.5	4,497	4	7.4	-20	-0	-0.1
12482_12480	12482	12480	4,643	288	20.5	4,895	289	20.4	252	1	-0.1
12486_12226	12486	12226	34,631	1,939	9.2	34,223	2,019	9.1	-408	80	-0.1
12492_12223	12492	12223	47,831	2,487	1.8	47,740	2,626	1.8	-91	138	0.0
12496_12492	12496	12492	43,724	2,055	4.5	43,624	2,181	4.5	-100	126	0.0
12499_12426	12499	12426	14,546	1,309	8.3	14,517	1,394	8.2	-29	84	-0.1
12499_12496	12499	12496	446	357	42.5	543	443	42.5	97	86	0.0

Road	A node	B node	Without the Proposed Scheme			With the Proposed Scheme			Change in AADT	Change in HDVs	Change in Speed
			AADT	HDVs	Speed (kph) ¹	AADT	HDVs	Speed (kph) ¹			
12501_12499	12501	12499	11,103	1,155	13.2	11,120	1,145	12.7	17	-9	-0.5
12502_12496	12502	12496	43,260	1,730	53.0	43,059	1,765	53.0	-201	35	0.0
12506_12499	12506	12499	16,012	1,233	3.5	15,987	1,311	3.5	-25	78	0.0
12512_12154	12512	12154	4,421	645	21.1	4,409	639	21.1	-12	-6	0.0
12512_12506	12512	12506	24,766	1,362	13.2	24,757	1,386	13.2	-9	24	-0.1
12513_12500	12513	12500	5,232	345	5.3	5,296	344	5.2	64	-1	-0.1
12519_12512	12519	12512	24,043	1,178	19.4	24,081	1,180	19.4	38	2	0.0
12577_12478	12577	12478	2,104	88	8.4	2,312	86	8.1	208	-3	-0.4
12577_12487	12577	12487	3,514	70	19.4	3,448	69	19.4	-66	-1	0.0
12595_12513	12595	12513	2,658	332	23.3	2,794	319	23.3	136	-14	0.0
12595_12575	12595	12575	1,186	69	21.7	1,156	75	21.7	-30	6	0.0
12679_12482	12679	12482	4,357	144	8.1	4,312	142	8.0	-45	-1	-0.2
12696_12481	12696	12481	12,856	848	15.0	12,868	875	15.0	12	27	0.0
12760_12504	12760	12504	861	37	6.2	909	37	6.2	48	0	0.0
12760_12519	12760	12519	7,206	576	8.4	7,192	575	8.3	-14	-1	-0.1
12760_12756	12760	12756	882	31	21.0	938	25	21.0	56	-6	0.0
12773_12595	12773	12595	2,311	254	22.2	2,445	242	22.2	134	-12	0.0
12867_12160	12867	12160	698	29	23.0	689	29	23.0	-9	-0	0.0
12867_12226	12867	12226	4,832	135	9.3	5,032	131	9.1	200	-4	-0.2
12870_12502	12870	12502	43,260	1,730	57.6	43,059	1,765	57.6	-201	35	0.0

Road	A node	B node	Without the Proposed Scheme			With the Proposed Scheme			Change in AADT	Change in HDVs	Change in Speed
			AADT	HDVs	Speed (kph) ¹	AADT	HDVs	Speed (kph) ¹			
12902_12226	12902	12226	11,770	2,107	5.2	12,058	2,110	5.1	288	3	-0.2
12903_12224	12903	12224	575	0	5.6	626	0	5.6	51	0	0.0
12904_12481	12904	12481	7,702	809	27.9	7,217	816	28.0	-485	7	0.1
12916_12512	12916	12512	6,431	1,724	6.2	6,422	1,721	6.2	-9	-2	0.0
13085_12228	13085	12228	41,587	2,578	3.4	42,131	2,696	3.3	544	118	-0.2
13085_12476	13085	12476	39,065	2,344	4.0	37,931	2,428	4.1	-1,134	84	0.1
13105_12223	13105	12223	51,297	2,103	4.2	51,489	2,214	4.2	192	111	-0.1
13105_13070	13105	13070	35,342	1,908	14.7	35,066	2,034	10.2	-276	125	-4.5
13186_12223	13186	12223	4,551	177	5.7	4,458	187	5.9	-93	10	0.2
13207_12225	13207	12225	43,077	2,111	6.9	42,255	2,197	7.0	-822	86	0.0
13207_12291	13207	12291	43,629	2,749	6.8	43,305	2,858	6.8	-324	110	0.0
13207_12401	13207	12401	2	2	20.8	4	4	20.8	2	2	0.0
13270_12381	13270	12381	20,034	1,483	15.2	20,217	1,557	14.6	183	74	-0.5
13273_12337	13273	12337	1,316	0	7.0	1,163	0	7.1	-153	0	0.0
13275_13272	13275	13272	1,302	0	25.0	1,234	0	25.0	-68	0	0.0
13278_12337	13278	12337	12,064	2,039	4.6	12,361	2,052	4.6	297	13	0.0
13279_12867	13279	12867	4,832	135	12.0	5,032	131	12.0	200	-4	-0.1
13287_12381	13287	12381	11,555	1,456	26.3	11,691	1,567	26.2	136	111	-0.1
13288_12399	13288	12399	460	0	24.7	441	0	24.7	-19	0	0.0
13288_13274	13288	13274	6,658	0	23.1	6,234	0	23.2	-424	0	0.0

Road	A node	B node	Without the Proposed Scheme			With the Proposed Scheme			Change in AADT	Change in HDVs	Change in Speed
			AADT	HDVs	Speed (kph) ¹	AADT	HDVs	Speed (kph) ¹			
13293_12412	13293	12412	15,129	1,649	26.4	15,571	1,682	26.3	442	33	-0.2
13333_12291	13333	12291	862	0	5.7	1,077	0	5.8	215	0	0.1
13333_13288	13333	13288	2,207	0	4.7	2,098	0	4.7	-109	0	0.0
13335_12223	13335	12223	2,953	15	13.0	3,024	18	13.0	71	3	0.0
13352_12492	13352	12492	6,972	669	2.2	6,915	657	2.2	-57	-12	0.0
13352_12504	13352	12504	5,762	519	5.4	5,797	522	5.3	35	3	0.0
13353_13105	13353	13105	1,444	113	4.7	1,405	105	4.9	-39	-7	0.2
13354_13353	13354	13353	4,869	131	18.1	4,598	124	18.0	-271	-7	-0.1
13355_13354	13355	13354	4,869	131	20.5	4,598	124	20.6	-271	-7	0.0
13356_12486	13356	12486	0	0	7.2	0	0	7.2	0	0	0.0
13356_12513	13356	12513	1,941	206	15.4	1,938	223	15.3	-3	17	-0.1
13356_13355	13356	13355	6,163	253	18.4	5,535	244	18.5	-628	-9	0.1
13357_12486	13357	12486	35,572	2,028	11.1	35,297	2,153	11.1	-275	126	0.0
13357_13070	13357	13070	45,315	1,949	19.4	45,091	2,029	19.5	-224	81	0.1
13358_12679	13358	12679	1,215	265	8.7	1,191	266	8.8	-24	1	0.0
13358_13085	13358	13085	0	0	14.5	0	0	14.7	0	0	0.2
13387_13272	13387	13272	715	0	37.0	1,139	0	37.0	424	0	0.0
13391_12228	13391	12228	0	0	8.2	0	0	8.2	0	0	0.0
13391_13288	13391	13288	4,140	0	16.5	3,869	0	16.6	-271	0	0.1
13478_12500	13478	12500	2,403	7	1.0	2,497	7	1.0	94	0	0.0

Road	A node	B node	Without the Proposed Scheme			With the Proposed Scheme			Change in AADT	Change in HDVs	Change in Speed
			AADT	HDVs	Speed (kph) ¹	AADT	HDVs	Speed (kph) ¹			
13478_12902	13478	12902	11,766	2,106	33.0	12,059	2,110	33.0	293	4	0.0
13480_12493	13480	12493	8,147	1,646	6.4	8,255	1,634	6.4	108	-11	0.0
13480_12903	13480	12903	575	0	31.9	626	0	31.9	51	0	0.0
13480_13478	13480	13478	2,381	264	7.8	2,391	268	7.8	10	4	0.0
13481_12401	13481	12401	10,627	457	25.5	10,958	449	25.4	331	-8	-0.1
13481_12491	13481	12491	3,693	332	29.5	3,642	320	29.5	-51	-12	0.0
13482_13390	13482	13390	11,051	453	38.0	10,945	460	38.0	-106	7	0.0
13483_13270	13483	13270	26,456	1,693	16.7	26,550	1,779	16.7	94	86	-0.1
13483_13293	13483	13293	15,129	1,649	40.0	15,571	1,682	40.0	442	33	0.0
13992_12511	13992	12511	3,601	32	13.1	3,778	34	13.1	177	2	-0.1
13992_13186	13992	13186	4,552	178	25.0	4,457	187	25.0	-95	10	0.0
13992_13352	13992	13352	1,965	26	19.1	1,896	23	19.2	-69	-3	0.0
13992_13353	13992	13353	1,379	3	22.9	1,409	4	22.9	30	1	0.0
14004_12228	14004	12228	39,035	2,342	10.9	37,776	2,418	11.2	-1,259	76	0.3
14004_12480	14004	12480	7,449	37	32.2	7,183	43	32.3	-266	6	0.0
14073_14065	14073	14065	11,481	873	34.0	13,474	957	34.0	1,993	84	0.0
14116_14114	14116	14114	1,118	45	25.0	1,117	45	25.0	-1	-0	0.0
14117_14116	14117	14116	667	19	16.3	585	18	16.3	-82	-1	0.0
14211_14136	14211	14136	10,949	230	7.1	11,632	268	6.9	683	38	-0.2
14212_14129	14212	14129	7,642	917	27.7	7,306	869	27.7	-336	-48	0.0

Road	A node	B node	Without the Proposed Scheme			With the Proposed Scheme			Change in AADT	Change in HDVs	Change in Speed
			AADT	HDVs	Speed (kph) [±]	AADT	HDVs	Speed (kph) [±]			
14219_14211	14219	14211	4,641	0	15.8	4,720	0	15.8	79	0	0.0
14221_14130	14221	14130	8,361	1,681	10.7	8,639	1,676	10.6	278	-5	-0.1
14235_12399	14235	12399	338	0	22.9	330	0	22.9	-8	0	0.0
14235_14219	14235	14219	2,458	0	23.0	2,702	0	23.0	244	0	0.0
14253_14129	14253	14129	13,919	738	32.5	15,027	751	32.6	1,108	14	0.1
14284_12904	14284	12904	7,077	757	11.3	6,597	765	11.8	-480	8	0.5
14293_14109	14293	14109	37,290	4,400	11.6	38,410	4,456	11.4	1,120	55	-0.2
14294_14069	14294	14069	33,989	2,753	5.0	34,436	2,755	4.9	447	2	-0.1
14294_14070	14294	14070	38,548	3,546	5.2	38,761	3,527	5.0	213	-19	-0.1
14295_14293	14295	14293	25,386	2,209	4.2	26,633	2,237	4.1	1,247	29	-0.1
14296_14099	14296	14099	6,289	358	2.6	7,196	353	2.1	907	-6	-0.5
14297_14069	14297	14069	1,118	53	4.8	1,491	45	4.6	373	-8	-0.2
14299_14069	14299	14069	33,919	2,747	4.2	34,737	2,779	4.2	818	32	0.0
14300_14295	14300	14295	6,348	1,225	5.2	7,314	1,258	5.1	966	33	-0.1
14301_14099	14301	14099	2,911	442	11.0	4,307	431	8.9	1,396	-12	-2.1
14303_14067	14303	14067	34,527	2,313	1.0	37,585	2,368	1.3	3,058	55	0.3
14303_14301	14303	14301	36,075	2,020	1.4	37,840	2,119	1.0	1,765	99	-0.4
14306_14305	14306	14305	4,120	1,372	21.4	3,884	1,293	21.4	-236	-79	0.0
14308_14065	14308	14065	7,703	1,032	27.0	9,933	1,073	27.0	2,230	41	0.0
14312_14308	14312	14308	9,605	1,681	3.2	9,731	1,567	3.1	126	-114	-0.1

Road	A node	B node	Without the Proposed Scheme			With the Proposed Scheme			Change in AADT	Change in HDVs	Change in Speed
			AADT	HDVs	Speed (kph) ¹	AADT	HDVs	Speed (kph) ¹			
14313_14305	14313	14305	33,645	1,548	31.1	34,913	1,711	30.8	1,268	163	-0.3
14314_14283	14314	14283	8,902	499	6.1	11,054	630	6.1	2,152	132	0.1
14315_14283	14315	14283	48,959	2,350	2.4	47,392	2,417	2.5	-1,567	67	0.2
14316_14310	14316	14310	1,350	255	21.1	2,057	376	15.9	707	121	-5.3
14320_14292	14320	14292	6,221	137	22.8	6,722	155	22.7	501	18	-0.1
14323_14319	14323	14319	1,596	1,551	4.5	1,596	1,555	4.5	0	3	0.0
14324_14309	14324	14309	17,588	1,864	2.5	17,671	1,926	2.4	83	62	-0.1
14325_14316	14325	14316	1,350	255	12.5	1,627	321	12.4	277	65	-0.1
14326_14324	14326	14324	7,069	749	5.3	7,256	798	5.1	187	49	-0.3
14329_14323	14329	14323	1,596	1,551	6.6	1,596	1,555	6.6	0	3	0.0
14333_14329	14333	14329	9,095	2,110	24.9	9,392	2,104	24.8	297	-6	0.0
14334_14325	14334	14325	2,825	415	1.4	2,886	372	1.4	61	-43	0.0
14336_14280	14336	14280	2,096	113	25.4	1,762	86	25.3	-334	-27	0.0
14336_14335	14336	14335	5,938	730	24.1	4,802	720	24.2	-1,136	-10	0.2
14338_14334	14338	14334	2,799	414	8.0	2,885	372	8.0	86	-42	0.0
14340_14281	14340	14281	6,814	279	21.9	6,728	269	21.9	-86	-10	0.0
14343_14292	14343	14292	8,539	324	22.1	6,457	316	22.3	-2,082	-8	0.2
14343_14309	14343	14309	3,672	66	6.6	3,223	84	6.6	-449	18	0.0
14343_14326	14343	14326	5,342	166	18.8	4,603	129	18.7	-739	-37	0.0
14344_14340	14344	14340	19,868	2,543	13.6	19,276	2,506	13.8	-592	-37	0.2

Road	A node	B node	Without the Proposed Scheme			With the Proposed Scheme			Change in AADT	Change in HDVs	Change in Speed
			AADT	HDVs	Speed (kph) ¹	AADT	HDVs	Speed (kph) ¹			
14353_14344	14353	14344	11,779	1,896	9.4	11,465	1,869	9.4	-314	-28	0.1
14363_14302	14363	14302	5,943	874	17.0	5,815	866	17.1	-128	-7	0.1
14364_14297	14364	14297	1,334	63	30.3	2,527	51	30.2	1,193	-12	-0.2
14364_14304	14364	14304	3,708	122	11.0	4,536	127	10.1	828	5	-0.9
14365_14282	14365	14282	8,070	581	10.5	8,285	613	10.8	215	32	0.3
14365_14336	14365	14336	2,059	247	13.7	1,462	263	13.9	-597	16	0.1
14368_14304	14368	14304	2,115	95	10.1	3,015	90	9.6	900	-5	-0.5
14369_14319	14369	14319	5,949	648	8.7	6,537	673	8.6	588	25	-0.1
14370_14333	14370	14333	5,463	415	11.2	5,691	410	11.1	228	-5	-0.1
14371_14290	14371	14290	7,010	273	6.3	7,183	273	5.6	173	-0	-0.7
14371_14291	14371	14291	5,469	323	14.5	5,971	316	14.0	502	-6	-0.5
14372_14335	14372	14335	4,262	98	15.8	4,154	108	16.2	-108	10	0.4
14373_14326	14373	14326	10,083	938	24.3	8,845	929	24.7	-1,238	-9	0.3
14373_14335	14373	14335	3,953	166	28.0	3,683	129	28.0	-270	-37	0.0
14378_14347	14378	14347	2,179	102	2.9	2,216	104	2.9	37	2	0.0
14382_14280	14382	14280	2,798	78	20.0	3,217	64	19.8	419	-14	-0.2
14382_14281	14382	14281	633	72	21.5	639	72	21.5	6	0	0.0
14382_14282	14382	14282	4,662	289	18.9	3,911	289	19.1	-751	0	0.1
14388_14004	14388	14004	44,496	2,358	7.9	42,762	2,437	8.0	-1,734	79	0.2
14388_14112	14388	14112	13,151	592	30.9	13,827	678	30.9	676	86	0.0

Road	A node	B node	Without the Proposed Scheme			With the Proposed Scheme			Change in AADT	Change in HDVs	Change in Speed
			AADT	HDVs	Speed (kph) ¹	AADT	HDVs	Speed (kph) ¹			
14388_14283	14388	14283	39,913	2,674	3.8	40,700	2,768	3.7	787	93	-0.1
14393_14067	14393	14067	37,827	2,913	2.9	38,764	3,024	11.4	937	111	8.5
14393_14305	14393	14305	39,076	2,540	24.2	37,603	2,369	24.4	-1,473	-171	0.1
14418_14070	14418	14070	30,128	3,013	7.1	30,831	3,052	6.8	703	39	-0.2
14418_14109	14418	14109	38,105	3,506	10.7	38,317	3,487	10.9	212	-19	0.2
14436_14342	14436	14342	17,553	2,756	1.9	17,353	2,759	2.0	-200	3	0.1
14436_14344	14436	14344	172	170	4.4	172	170	4.4	0	0	0.0
14437_14337	14437	14337	13,577	1,439	4.1	13,672	1,436	4.0	95	-4	0.0
14438_14055	14438	14055	19,260	2,716	26.1	19,006	2,737	26.1	-254	21	0.0
14448_14281	14448	14281	1,033	0	18.9	929	0	19.0	-104	0	0.0
14448_14344	14448	14344	20,832	2,375	5.5	21,160	2,412	5.4	328	37	-0.1
14449_14347	14449	14347	19,891	2,287	12.7	20,058	2,307	12.6	167	19	-0.1
14450_14347	14450	14347	172	170	9.2	172	170	9.2	0	0	0.0
14450_14448	14450	14448	22,072	2,384	23.7	22,276	2,406	23.7	204	22	0.0
14451_14449	14451	14449	8,126	1,536	28.8	8,056	1,539	28.8	-70	3	0.0
14491_14324	14491	14324	10,236	901	1.4	9,328	942	1.4	-908	41	0.0
14491_14327	14491	14327	12,529	2,806	8.5	10,791	2,784	8.7	-1,738	-22	0.1
14493_14327	14493	14327	1,983	605	4.0	3,583	602	3.9	1,600	-3	-0.1
14505_14293	14505	14293	11,899	2,082	0.8	11,770	2,095	0.8	-129	13	0.0
14525_14099	14525	14099	2,760	386	4.7	3,244	406	3.7	484	19	-0.9

Road	A node	B node	Without the Proposed Scheme			With the Proposed Scheme			Change in AADT	Change in HDVs	Change in Speed
			AADT	HDVs	Speed (kph) ¹	AADT	HDVs	Speed (kph) ¹			
14526_14301	14526	14301	34,721	2,326	5.7	36,797	2,318	5.0	2,076	-8	-0.7
14526_14521	14526	14521	32,029	2,947	25.6	33,170	2,985	25.5	1,141	39	-0.2
14526_14525	14526	14525	2,760	386	32.0	3,244	406	32.0	484	19	0.0
14527_14067	14527	14067	6,403	224	1.6	0	0	2.9	-6,403	-224	1.3
14527_14320	14527	14320	1,437	23	21.3	605	53	20.8	-832	30	-0.5
14528_14343	14528	14343	3,680	129	10.0	2,363	95	12.3	-1,317	-34	2.3
14529_14321	14529	14321	5,746	126	16.9	5,889	94	16.9	143	-32	0.0
14531_14308	14531	14308	8,066	1,178	9.1	9,797	1,215	8.9	1,731	37	-0.2
14532_14334	14532	14334	6,530	490	2.9	6,617	496	2.7	87	7	-0.2
14533_14289	14533	14289	2,397	58	18.9	2,843	71	18.9	446	14	0.0
14543_14301	14543	14301	8,890	1,627	1.0	12,694	1,739	0.6	3,804	112	-0.4
14543_14309	14543	14309	12,107	1,925	2.2	11,673	1,809	2.1	-434	-116	0.0
14544_14304	14544	14304	1,449	71	12.0	1,252	104	11.9	-197	33	-0.1
14544_14309	14544	14309	3,844	254	10.0	3,159	237	11.0	-685	-17	1.0
14545_14317	14545	14317	4,530	118	24.4	4,618	97	24.2	88	-21	-0.2
14548_14333	14548	14333	1,607	1,589	1.5	1,606	1,587	1.5	-1	-3	0.0
14548_14532	14548	14532	6,530	490	25.0	6,617	496	25.0	87	7	0.0
14549_14284	14549	14284	10,826	779	17.7	10,306	783	17.7	-520	4	0.0
14550_14315	14550	14315	0	0	9.9	0	0	10.7	0	0	0.8
14550_14533	14550	14533	2,397	58	25.0	2,843	71	25.0	446	14	0.0

Road	A node	B node	Without the Proposed Scheme			With the Proposed Scheme			Change in AADT	Change in HDVs	Change in Speed
			AADT	HDVs	Speed (kph) ¹	AADT	HDVs	Speed (kph) ¹			
14551_14306	14551	14306	3,431	1,410	22.4	3,033	1,274	22.5	-398	-136	0.0
14552_14307	14552	14307	8,090	704	16.1	10,835	726	15.0	2,745	22	-1.1
14552_14312	14552	14312	2,532	1,175	1.7	3,194	1,326	1.1	662	151	-0.6
14553_14312	14553	14312	9,016	2,119	0.5	9,115	1,969	0.5	99	-150	0.0
14553_14319	14553	14319	1,038	999	1.2	1,025	990	1.2	-13	-8	0.0
14565_14313	14565	14313	41,702	2,711	42.1	44,706	2,951	41.8	3,004	240	-0.3
14565_14315	14565	14315	48,957	2,350	17.6	47,392	2,417	17.9	-1,565	67	0.3
14571_14099	14571	14099	1,440	1,390	4.3	1,441	1,385	4.2	1	-5	0.0
14571_14303	14571	14303	372	372	4.9	372	372	4.9	0	0	0.0
14572_14320	14572	14320	8,485	382	23.1	8,890	276	23.1	405	-106	0.0
14572_14325	14572	14325	3,742	266	2.4	3,754	289	1.9	12	23	-0.5
14573_14341	14573	14341	0	0	6.8	0	0	6.5	0	0	-0.2
14573_14372	14573	14372	4,262	98	30.0	4,154	108	30.0	-108	10	0.0
14574_14528	14574	14528	5,068	294	24.7	4,253	362	24.7	-815	68	0.0
14580_14280	14580	14280	3,165	715	24.7	2,881	706	24.7	-284	-9	0.1
14580_14340	14580	14340	18,830	2,749	20.6	17,301	2,682	20.6	-1,529	-68	0.0
14580_14493	14580	14493	1,983	605	31.0	3,583	602	31.0	1,600	-3	0.0
14608_14070	14608	14070	3,097	37	5.8	3,101	37	5.8	4	0	0.0
14609_14296	14609	14296	6,262	351	25.9	7,172	344	25.9	910	-6	0.0
14612_14300	14612	14300	200	3	21.0	196	3	20.9	-4	-0	-0.1

Road	A node	B node	Without the Proposed Scheme			With the Proposed Scheme			Change in AADT	Change in HDVs	Change in Speed
			AADT	HDVs	Speed (kph) ¹	AADT	HDVs	Speed (kph) ¹			
14615_14612	14615	14612	1,767	196	17.3	1,768	196	17.3	1	0	0.0
14616_14295	14616	14295	0	0	6.2	0	0	6.2	0	0	0.0
14617_14294	14617	14294	1,627	2	12.8	1,629	2	12.3	2	0	-0.6
14618_14616	14618	14616	1,627	2	23.3	1,629	2	23.3	2	0	0.0
14619_14618	14619	14618	1,627	2	17.3	1,629	2	17.3	2	0	0.0
14621_14300	14621	14300	2,940	685	24.8	3,667	719	24.7	727	34	-0.1
14621_14302	14621	14302	2,719	707	10.1	2,777	705	10.1	58	-2	-0.1
14622_14612	14622	14612	760	55	24.3	753	55	24.3	-7	0	0.0
14622_14621	14622	14621	1,901	207	18.3	2,100	225	18.2	199	17	-0.1
14623_14302	14623	14302	1,858	80	8.5	1,956	113	8.4	98	34	-0.1
14623_14304	14623	14304	3,193	271	16.5	2,808	244	16.7	-385	-27	0.2
14623_14622	14623	14622	1,094	69	18.1	1,281	86	17.9	187	17	-0.1
14624_14295	14624	14295	17,798	730	9.1	17,865	732	9.1	67	3	0.0
14625_14300	14625	14300	3,794	838	19.8	4,040	848	19.7	246	10	-0.1
14625_14624	14625	14624	0	0	12.6	0	0	12.5	0	0	0.0
14628_14253	14628	14253	1,270	851	15.9	1,491	847	15.7	221	-4	-0.3
14648_14211	14648	14211	5,527	232	20.5	6,616	265	20.1	1,089	33	-0.4
14650_14136	14650	14136	5,415	444	4.4	5,403	432	4.3	-12	-12	-0.1
14650_14137	14650	14137	7,825	305	7.6	8,303	307	7.5	478	2	-0.1
14654_14212	14654	14212	1,802	11	12.7	1,918	6	7.1	116	-5	-5.6

Road	A node	B node	Without the Proposed Scheme			With the Proposed Scheme			Change in AADT	Change in HDVs	Change in Speed
			AADT	HDVs	Speed (kph) ¹	AADT	HDVs	Speed (kph) ¹			
14656_14113	14656	14113	5,560	222	32.0	6,206	273	32.0	646	51	0.0
14656_14648	14656	14648	5,526	232	32.0	6,616	265	32.0	1,090	33	0.0
14674_14673	14674	14673	0	0	14.7	0	0	14.7	0	0	0.0
14679_14131	14679	14131	10,693	834	23.0	10,076	816	23.0	-617	-18	0.1
14680_14129	14680	14129	0	0	0.0	0	0	0.0	0	0	0.0
14680_14628	14680	14628	1,270	851	22.0	1,491	847	22.0	221	-4	0.0
14692_14544	14692	14544	568	99	10.5	600	131	10.4	32	32	-0.1
14692_14673	14692	14673	0	0	23.8	0	0	23.8	0	0	0.0
14696_14679	14696	14679	10,693	834	19.3	10,076	816	19.4	-617	-18	0.1
14697_14691	14697	14691	770	8	23.7	734	7	23.7	-36	-0	0.0
14697_14696	14697	14696	2,937	18	16.7	2,715	19	16.8	-222	1	0.1
14698_14221	14698	14221	9,715	1,622	20.3	10,288	1,615	20.3	573	-7	0.0
14701_14073	14701	14073	10,976	867	3.9	13,521	960	3.7	2,545	93	-0.2
14701_14115	14701	14115	8,358	886	15.8	5,624	889	27.9	-2,734	3	12.1
14701_14655	14701	14655	1,929	27	15.7	2,666	21	15.3	737	-6	-0.4
14704_14117	14704	14117	667	19	18.8	585	18	18.8	-82	-1	0.0
14704_14251	14704	14251	7,806	390	6.7	9,642	395	4.9	1,836	5	-1.8
14705_14692	14705	14692	819	80	14.8	809	80	14.9	-10	-0	0.1
14707_14488	14707	14488	1,906	139	14.7	1,866	140	14.9	-40	1	0.2
14707_14706	14707	14706	1,169	11	25.0	1,135	11	25.0	-34	1	0.0

Road	A node	B node	Without the Proposed Scheme			With the Proposed Scheme			Change in AADT	Change in HDVs	Change in Speed
			AADT	HDVs	Speed (kph) ¹	AADT	HDVs	Speed (kph) ¹			
14708_14545	14708	14545	3,583	32	22.9	3,547	18	22.9	-36	-15	0.0
14708_14707	14708	14707	406	106	22.4	426	107	22.5	20	1	0.0
14709_14299	14709	14299	0	0	12.3	0	0	12.3	0	0	0.0
14711_14545	14711	14545	754	77	28.4	884	82	28.4	130	5	0.0
14712_14327	14712	14327	6,273	213	15.4	5,371	242	16.2	-902	28	0.8
14713_14711	14713	14711	0	0	13.4	0	0	13.3	0	0	0.0
14713_14712	14713	14712	395	32	12.5	459	32	12.7	64	0	0.2
14714_14069	14714	14069	8,108	730	1.5	8,558	753	1.4	450	23	-0.1
14714_14087	14714	14087	2,185	39	15.7	2,053	45	15.7	-132	6	0.0
14714_14604	14714	14604	6,287	283	41.0	6,556	288	41.0	269	6	0.0
14715_14322	14715	14322	2,556	0	16.5	2,551	0	16.5	-5	0	0.0
14715_14713	14715	14713	364	0	21.6	429	0	21.6	65	0	0.0
14718_14137	14718	14137	5,277	248	4.6	5,263	289	4.6	-14	41	0.0
14720_14318	14720	14318	4,216	135	21.8	4,001	136	21.9	-215	1	0.1
14720_14719	14720	14719	7,294	212	23.0	7,286	211	23.0	-8	-0	0.0
14721_14118	14721	14118	5	1	18.6	2	0	18.5	-3	-1	0.0
14721_14609	14721	14609	6,262	351	25.3	7,015	344	24.9	753	-7	-0.3
14722_14112	14722	14112	6,881	268	20.0	8,584	378	18.5	1,703	109	-1.4
14722_14113	14722	14113	7,650	237	32.0	7,991	264	32.0	341	27	0.0
14724_14115	14724	14115	876	54	5.6	166	151	15.9	-710	97	10.3

Road	A node	B node	Without the Proposed Scheme			With the Proposed Scheme			Change in AADT	Change in HDVs	Change in Speed
			AADT	HDVs	Speed (kph) ¹	AADT	HDVs	Speed (kph) ¹			
14725_14723	14725	14723	2,563	44	24.3	0	0	24.4	-2,563	-44	0.0
14725_14724	14725	14724	876	54	25.0	0	0	25.0	-876	-54	0.0
14726_13391	14726	13391	508	0	24.2	413	0	24.2	-95	0	0.0
14726_14004	14726	14004	4,168	67	6.4	4,288	64	6.1	120	-2	-0.3
14726_14235	14726	14235	3,088	0	24.6	3,325	0	24.5	237	0	0.0
14729_14720	14729	14720	3,069	98	22.3	3,015	99	22.3	-54	1	0.0
14731_14055	14731	14055	0	0	19.8	0	0	19.8	0	0	0.0
14737_14219	14737	14219	2,592	47	24.3	2,482	47	24.3	-110	1	0.0
14744_14118	14744	14118	2,151	280	19.0	2,345	279	19.0	194	-1	0.0
14746_14316	14746	14316	978	27	2.3	949	76	2.4	-29	49	0.0
14746_14369	14746	14369	1,327	235	17.1	1,447	201	17.1	120	-34	0.0
14746_14370	14746	14370	0	0	20.9	0	0	20.9	0	0	0.0
14748_14292	14748	14292	1,605	64	20.8	1,282	53	20.9	-323	-12	0.1
14748_14527	14748	14527	3,302	76	13.9	939	53	16.4	-2,363	-23	2.5
14748_14528	14748	14528	3,204	67	15.3	1,377	39	16.1	-1,827	-29	0.8
14751_14371	14751	14371	3,172	82	17.7	3,535	81	17.6	363	-1	-0.2
14752_14751	14752	14751	54	0	16.9	182	0	16.9	128	0	0.0
14753_14654	14753	14654	1,966	37	24.3	1,592	13	24.5	-374	-25	0.2
14753_14690	14753	14690	410	145	21.9	514	172	22.0	104	27	0.1
14754_14753	14754	14753	0	0	18.3	0	0	18.3	0	0	0.0

Road	A node	B node	Without the Proposed Scheme			With the Proposed Scheme			Change in AADT	Change in HDVs	Change in Speed
			AADT	HDVs	Speed (kph) ¹	AADT	HDVs	Speed (kph) ¹			
14755_14654	14755	14654	85	80	26.3	862	103	24.5	777	23	-1.8
14755_14655	14755	14655	1,186	36	13.0	1,323	9	12.8	137	-26	-0.2
14755_14754	14755	14754	1,231	27	13.0	1,002	12	13.0	-229	-15	0.0
14756_14115	14756	14115	13,791	759	14.5	13,801	773	27.8	10	14	13.2
14756_14755	14756	14755	630	18	17.0	0	0	17.0	-630	-18	0.0
14760_14137	14760	14137	10,371	1,255	6.2	10,498	1,228	6.2	127	-27	0.0
14761_14758	14761	14758	0	0	17.7	0	0	17.7	0	0	0.0
14762_14690	14762	14690	1,344	17	17.7	1,552	26	17.7	208	9	0.0
14762_14760	14762	14760	2,043	468	21.2	2,093	450	21.1	50	-18	0.0
14763_14761	14763	14761	0	0	16.9	0	0	16.9	0	0	0.0
14764_14762	14764	14762	1,786	314	19.1	1,759	281	19.1	-27	-33	0.0
14765_14763	14765	14763	0	0	20.0	0	0	20.0	0	0	0.0
14765_14764	14765	14764	1,446	87	15.0	1,502	86	15.0	56	-1	0.0
14766_14764	14766	14764	342	226	19.2	260	193	19.2	-82	-33	0.0
14767_14697	14767	14697	6	0	24.4	6	0	24.4	0	0	0.0
14767_14765	14767	14765	907	73	26.3	907	70	26.3	0	-3	0.0
14768_14299	14768	14299	34,190	2,735	17.5	36,248	2,755	15.1	2,058	20	-2.4
14768_14521	14768	14521	37,819	2,761	19.0	38,839	2,796	18.8	1,020	36	-0.2
14769_14521	14769	14521	2,636	119	6.0	3,120	106	4.1	484	-13	-1.9
14769_14709	14769	14709	1,279	116	15.5	1,330	108	15.4	51	-9	-0.1

Road	A node	B node	Without the Proposed Scheme			With the Proposed Scheme			Change in AADT	Change in HDVs	Change in Speed
			AADT	HDVs	Speed (kph) ¹	AADT	HDVs	Speed (kph) ¹			
14769_14744	14769	14744	2,074	280	1.8	2,164	279	1.6	90	-1	-0.3
14770_14752	14770	14752	54	0	25.0	182	0	25.0	128	0	0.0
14771_14323	14771	14323	5,329	368	8.4	5,166	351	8.5	-163	-16	0.1
14772_14371	14772	14371	5,499	418	22.0	5,724	418	21.9	225	-0	0.0
14775_14129	14775	14129	181	0	17.2	201	0	17.3	20	0	0.1
14775_14766	14775	14766	342	226	20.0	260	193	20.0	-82	-33	0.0
14775_14767	14775	14767	1,562	2	22.9	1,535	2	22.9	-27	-0	0.0
14796_14368	14796	14368	2,115	95	28.0	3,015	90	28.0	900	-5	0.0
14797_14317	14797	14317	1,753	53	16.7	2,593	41	17.1	840	-11	0.4
14797_14529	14797	14529	5,746	126	25.0	5,889	94	25.0	143	-32	0.0
14804_14297	14804	14297	303	27	20.0	310	6	20.0	7	-21	0.0
14804_14692	14804	14692	553	78	21.8	565	89	21.9	12	11	0.0
14804_14768	14804	14768	233	29	5.4	1,009	26	5.2	776	-3	-0.1
14830_14550	14830	14550	536	18	15.0	633	18	14.9	97	-1	-0.1
14902_14130	14902	14130	267	259	17.1	261	246	17.1	-6	-13	0.0
14902_14251	14902	14251	3,270	500	2.7	2,955	493	2.9	-315	-7	0.1
14903_14709	14903	14709	545	14	14.0	845	26	13.5	300	12	-0.5
14904_14116	14904	14116	451	26	19.5	533	26	19.5	82	-0	0.0
14904_14744	14904	14744	160	23	22.7	181	0	23.5	21	-23	0.8
14904_14903	14904	14903	545	14	20.0	845	26	20.0	300	12	0.0

Road	A node	B node	Without the Proposed Scheme			With the Proposed Scheme			Change in AADT	Change in HDVs	Change in Speed
			AADT	HDVs	Speed (kph) ¹	AADT	HDVs	Speed (kph) ¹			
14905_14117	14905	14117	0	0	17.7	0	0	17.7	0	0	0.0
14905_14118	14905	14118	0	0	15.8	0	0	15.7	0	0	-0.1
14905_14904	14905	14904	55	11	19.1	45	2	19.1	-10	-9	0.0
14906_14721	14906	14721	7,209	332	28.9	7,572	326	28.9	363	-6	0.0
14906_14905	14906	14905	18	11	18.8	8	2	18.8	-10	-9	0.0
14907_14251	14907	14251	11,146	100	14.3	10,794	97	14.3	-352	-3	0.0
14908_14307	14908	14307	1,181	107	6.6	1,798	259	7.3	617	151	0.6
14908_14310	14908	14310	11,422	491	16.3	13,258	583	16.3	1,836	92	0.0
14909_14754	14909	14754	1,148	0	20.8	1,467	0	19.3	319	0	-1.4
14910_14909	14910	14909	1,148	0	25.0	1,467	0	25.0	319	0	0.0
14911_14655	14911	14655	333	0	14.5	0	0	14.6	-333	0	0.1
14911_14656	14911	14656	959	2	7.6	1,463	10	7.1	504	8	-0.5
14911_14910	14911	14910	1,148	0	25.0	1,467	0	25.0	319	0	0.0
14912_14221	14912	14221	4,650	172	28.7	4,706	174	28.7	56	2	-0.1
14912_14902	14912	14902	2,541	147	25.5	2,263	138	25.5	-278	-9	0.0
14952_14704	14952	14704	6,932	367	30.0	8,717	375	30.0	1,785	7	0.0
14952_14906	14952	14906	7,226	332	26.4	7,458	321	26.4	232	-12	0.0
14953_14952	14953	14952	58	15	14.3	33	8	13.8	-25	-7	-0.5
14954_14136	14954	14136	8,556	402	2.5	8,314	399	2.7	-242	-3	0.2
14954_14236	14954	14236	5,421	455	24.8	5,569	440	24.7	148	-15	-0.1

Road	A node	B node	Without the Proposed Scheme			With the Proposed Scheme			Change in AADT	Change in HDVs	Change in Speed
			AADT	HDVs	Speed (kph) ¹	AADT	HDVs	Speed (kph) ¹			
14965_14212	14965	14212	7,152	937	7.4	5,610	903	6.6	-1,542	-34	-0.8
14965_14756	14965	14756	13,791	759	27.8	13,785	758	29.3	-6	-0	1.5
14971_14067	14971	14067	7,098	156	1.9	9	5	3.8	-7,089	-151	2.0
14972_14701	14972	14701	0	0	12.8	5,584	11	1.2	5,584	11	-11.6
15060_14342	15060	14342	172	170	5.2	172	170	5.2	0	0	0.0
15060_14437	15060	14437	13,582	1,440	30.6	13,677	1,422	30.6	95	-17	0.0
15501_14073	15501	14073	1,170	57	7.7	1,731	0	6.0	561	-57	-1.7
15501_14655	15501	14655	1,205	82	20.8	685	117	21.4	-520	35	0.6
15501_14722	15501	14722	1,073	1	20.5	1,217	5	20.4	144	4	-0.2
15502_14073	15502	14073	1,072	4	6.2	250	0	6.7	-822	-4	0.5
15503_14723	15503	14723	827	92	16.0	0	0	17.2	-827	-92	1.1
15503_15502	15503	15502	589	0	22.6	0	0	21.3	-589	0	-1.3
15504_14972	15504	14972	0	0	23.4	3,894	8	12.1	3,894	8	-11.4
15504_15503	15504	15503	0	0	15.9	3,632	0	21.2	3,632	0	5.3
15505_15502	15505	15502	0	0	15.9	0	0	16.0	0	0	0.1
15505_15504	15505	15504	0	0	22.8	0	0	17.8	0	0	-5.0
15507_15502	15507	15502	1,061	79	15.9	286	0	16.2	-775	-79	0.3
15507_15506	15507	15506	0	0	25.0	0	0	25.0	0	0	0.0
15509_14306	15509	14306	1,586	40	12.7	1,559	0	12.8	-27	-40	0.0
15509_15507	15509	15507	677	71	20.9	115	0	21.1	-562	-71	0.1

Road	A node	B node	Without the Proposed Scheme			With the Proposed Scheme			Change in AADT	Change in HDVs	Change in Speed
			AADT	HDVs	Speed (kph) ¹	AADT	HDVs	Speed (kph) ¹			
15509_15508	15509	15508	0	0	25.0	0	0	25.0	0	0	0.0
15511_14723	15511	14723	876	54	17.8	0	0	14.1	-876	-54	-3.7
15511_14971	15511	14971	3,004	150	29.0	9	5	29.5	-2,995	-145	0.5
15511_15510	15511	15510	1,759	4	19.7	0	0	14.3	-1,759	-4	-5.5
15513_14756	15513	14756	0	0	16.0	55	14	15.6	55	14	-0.4
15516_15503	15516	15503	631	0	18.2	3,991	8	22.3	3,360	8	4.1
15516_15506	15516	15506	1,127	3	25.0	0	0	25.0	-1,127	-3	0.0
15516_15510	15516	15510	0	0	25.0	3,632	0	25.0	3,632	0	0.0
15900_14365	15900	14365	7,819	813	16.9	8,118	869	16.8	299	55	-0.1
15900_14366	15900	14366	2,666	296	25.0	2,692	304	25.0	26	8	0.0
15900_14451	15900	14451	0	0	6.6	0	0	6.6	0	0	0.0
16000_14108	16000	14108	3,900	156	27.1	4,253	174	27.1	353	18	0.0
16001_14107	16001	14107	8,432	995	26.4	8,826	1,015	26.3	394	20	-0.1
16001_14108	16001	14108	6,959	605	29.1	7,699	624	29.0	740	18	-0.1
16045_16000	16045	16000	6,694	288	12.1	7,095	305	12.2	401	17	0.0
16142_14110	16142	14110	12,109	1,138	8.8	12,230	1,162	8.8	121	24	0.0
16177_14505	16177	14505	1,258	906	28.2	1,309	907	28.2	51	1	0.0
16181_14624	16181	14624	18,180	745	29.7	18,316	733	29.7	136	-13	0.0
16183_14625	16183	14625	3,548	827	23.5	3,752	837	23.5	204	10	0.0
16378_14087	16378	14087	6,091	213	13.0	6,357	203	12.9	266	-10	-0.1

Road	A node	B node	Without the Proposed Scheme			With the Proposed Scheme			Change in AADT	Change in HDVs	Change in Speed
			AADT	HDVs	Speed (kph) ¹	AADT	HDVs	Speed (kph) ¹			
16378_16000	16378	16000	3,695	89	14.0	3,618	98	14.0	-77	9	0.0
16387_16001	16387	16001	10,954	1,161	16.4	11,747	1,175	16.6	793	14	0.2
12154_12155	12154	12155	782	72	23.0	782	72	23.0	0	0	0.0
12224_12225	12224	12225	36,495	1,934	5.8	36,218	2,028	5.9	-277	94	0.0
12224_12226	12224	12226	48,568	1,991	3.2	47,884	2,107	3.3	-684	116	0.0
12224_12337	12224	12337	577	0	3.3	626	0	3.3	49	0	0.0
12225_12337	12225	12337	0	0	15.2	0	0	15.2	0	0	0.0
12380_12381	12380	12381	10,590	1,006	14.0	10,553	1,055	14.2	-37	49	0.1
12164_12401	12164	12401	4,871	83	14.2	4,871	83	14.2	0	0	0.0
12401_12402	12401	12402	8,770	324	14.4	8,788	316	14.2	18	-8	-0.2
12291_12477	12291	12477	43,160	2,762	13.5	43,201	2,894	13.5	41	132	0.0
12402_12477	12402	12477	999	0	13.1	916	0	13.2	-83	0	0.0
12476_12478	12476	12478	39,083	2,345	4.8	37,926	2,427	4.9	-1,157	82	0.1
12477_12478	12477	12478	40,338	2,783	10.9	40,451	2,872	11.0	113	89	0.0
12228_12480	12228	12480	977	37	24.9	1,024	29	24.8	47	-8	-0.1
12480_12482	12480	12482	4,577	64	9.7	4,470	67	9.7	-107	3	0.1
12481_12485	12481	12485	13,053	1,031	27.1	12,414	1,018	27.2	-639	-13	0.1
12226_12486	12226	12486	48,554	1,991	2.9	47,884	2,107	2.5	-670	116	-0.3
12402_12487	12402	12487	12,090	592	21.4	12,227	587	21.4	137	-6	0.0
12223_12492	12223	12492	54,755	2,354	4.4	54,438	2,395	4.4	-317	41	-0.1

Road	A node	B node	Without the Proposed Scheme			With the Proposed Scheme			Change in AADT	Change in HDVs	Change in Speed
			AADT	HDVs	Speed (kph) ¹	AADT	HDVs	Speed (kph) ¹			
12492_12496	12492	12496	52,741	2,057	27.4	52,265	2,143	27.5	-476	86	0.1
12426_12499	12426	12499	13,266	1,698	14.1	13,310	1,784	14.0	44	85	-0.1
12496_12503	12496	12503	52,623	2,052	53.0	52,048	2,030	53.3	-575	-22	0.3
12154_12504	12154	12504	6,086	657	13.1	6,077	656	13.1	-9	-1	0.0
12503_12505	12503	12505	52,623	2,052	46.7	52,048	2,030	47.0	-575	-22	0.3
12496_12506	12496	12506	118	8	13.7	216	93	13.6	98	85	-0.1
12499_12506	12499	12506	23,998	2,400	12.0	23,972	2,397	12.0	-26	-3	0.0
12506_12512	12506	12512	22,591	2,101	18.5	22,571	2,099	18.5	-20	-2	0.0
12500_12513	12500	12513	4,592	326	21.5	4,478	318	21.5	-114	-8	0.0
12512_12519	12512	12519	24,388	2,975	18.5	24,407	2,978	18.5	19	2	0.0
12487_12577	12487	12577	4,649	172	16.6	4,545	164	16.6	-104	-8	0.0
12513_12595	12513	12595	1,559	126	23.3	1,527	133	23.3	-32	7	0.0
12575_12595	12575	12595	347	77	22.6	349	77	22.5	2	0	0.0
12482_12679	12482	12679	452	14	16.5	425	13	16.5	-27	-1	0.0
12482_12696	12482	12696	12,856	848	30.0	12,868	875	30.0	12	27	0.0
12504_12760	12504	12760	7,607	571	23.2	7,685	576	23.1	78	6	0.0
12519_12760	12519	12760	1,258	86	30.7	1,305	76	30.7	47	-10	0.0
12756_12760	12756	12760	207	0	20.5	187	0	20.5	-20	0	0.0
12595_12773	12595	12773	373	58	25.0	371	58	25.0	-2	0	0.0
12160_12867	12160	12867	260	4	2.8	231	4	2.8	-29	0	0.0

Road	A node	B node	Without the Proposed Scheme			With the Proposed Scheme			Change in AADT	Change in HDVs	Change in Speed
			AADT	HDVs	Speed (kph) ¹	AADT	HDVs	Speed (kph) ¹			
12226_12867	12226	12867	8,015	1,763	22.7	8,006	1,777	22.9	-9	14	0.2
12226_12902	12226	12902	4,832	135	31.1	5,032	131	31.1	200	-4	0.0
12224_12903	12224	12903	7,174	1,585	31.2	7,190	1,582	31.2	16	-4	0.0
12902_12903	12902	12903	1,718	100	12.4	1,792	95	12.4	74	-5	0.0
12481_12904	12481	12904	10,550	707	21.3	10,702	738	21.3	152	32	-0.1
12506_12917	12506	12917	11,928	441	47.0	12,067	446	47.0	139	5	0.0
12228_13085	12228	13085	39,233	2,315	13.0	38,210	2,407	13.1	-1,023	92	0.1
12476_13085	12476	13085	41,547	2,576	23.6	42,128	2,696	23.5	581	120	-0.1
12223_13105	12223	13105	33,093	1,919	0.7	32,928	2,042	0.7	-165	122	0.0
13070_13105	13070	13105	45,307	1,948	3.0	45,094	2,029	2.7	-213	81	-0.3
12487_13161	12487	13161	10,845	466	23.7	11,016	463	23.6	171	-4	-0.1
12223_13186	12223	13186	4,566	27	25.0	4,753	29	25.0	187	1	0.0
12225_13207	12225	13207	43,489	2,783	33.0	43,262	2,855	33.0	-227	72	0.0
12291_13207	12291	13207	35,715	2,036	23.1	34,448	2,136	23.4	-1,267	100	0.2
12401_13207	12401	13207	4,839	58	13.6	5,143	57	13.6	304	-1	0.0
12381_13270	12381	13270	16,824	1,767	39.7	16,835	1,902	39.7	11	136	0.0
13272_13275	13272	13275	715	0	21.9	1,139	0	21.8	424	0	-0.1
12337_13278	12337	13278	577	0	31.0	626	0	31.0	49	0	0.0
12867_13279	12867	13279	7,059	1,567	36.0	7,032	1,575	36.0	-27	8	0.0
12381_13287	12381	13287	14,780	1,552	39.4	14,710	1,603	39.4	-70	51	0.0

Road	A node	B node	Without the Proposed Scheme			With the Proposed Scheme			Change in AADT	Change in HDVs	Change in Speed
			AADT	HDVs	Speed (kph) ¹	AADT	HDVs	Speed (kph) ¹			
12399_13288	12399	13288	363	0	17.4	364	0	17.5	1	0	0.1
13274_13288	13274	13288	2,750	0	23.9	2,782	0	23.8	32	0	0.0
12412_13293	12412	13293	17,779	1,262	45.0	17,953	1,275	45.0	174	12	0.0
12291_13333	12291	13333	2,479	0	25.0	2,368	0	25.0	-111	0	0.0
13288_13333	13288	13333	756	0	25.0	964	0	25.0	208	0	0.0
12223_13335	12223	13335	9,913	486	24.8	10,076	494	24.8	163	8	0.0
12492_13352	12492	13352	5,229	518	27.6	5,297	519	27.6	68	1	0.0
12504_13352	12504	13352	5,101	643	28.4	5,097	637	28.4	-4	-6	0.0
13070_13354	13070	13354	0	0	19.6	0	0	19.6	0	0	0.0
13353_13354	13353	13354	1,447	7	21.7	1,473	7	21.7	26	0	0.0
13354_13355	13354	13355	1,447	7	21.0	1,473	7	21.0	26	0	0.0
12486_13356	12486	13356	4,153	224	20.4	3,502	242	20.8	-651	17	0.4
12513_13356	12513	13356	2,613	246	25.9	2,544	237	25.9	-69	-9	0.0
13355_13356	13355	13356	1,445	7	11.9	1,472	7	12.1	27	0	0.2
12486_13357	12486	13357	43,433	1,781	27.7	43,675	1,878	27.7	242	97	0.0
13070_13357	13070	13357	35,573	2,028	27.0	35,297	2,153	27.1	-276	125	0.0
13355_13357	13355	13357	1,296	123	13.7	942	123	13.9	-354	0	0.2
12476_13358	12476	13358	1,098	262	24.4	998	262	24.4	-100	0	0.0
13085_13358	13085	13358	117	3	19.6	193	3	19.6	76	0	0.0
13272_13387	13272	13387	1,302	0	24.6	1,234	0	24.6	-68	0	0.0

Road	A node	B node	Without the Proposed Scheme			With the Proposed Scheme			Change in AADT	Change in HDVs	Change in Speed
			AADT	HDVs	Speed (kph) ¹	AADT	HDVs	Speed (kph) ¹			
12228_13391	12228	13391	3,745	0	20.4	3,569	0	20.4	-176	0	0.0
13288_13391	13288	13391	2,606	0	25.0	2,489	0	25.0	-117	0	0.0
12500_13478	12500	13478	8,478	1,780	8.1	8,757	1,786	8.1	279	6	0.0
12902_13478	12902	13478	2,401	7	10.6	2,493	7	10.6	92	0	0.0
12493_13480	12493	13480	2,408	258	30.9	2,458	253	30.9	50	-4	0.0
12903_13480	12903	13480	9,600	1,718	29.0	9,728	1,712	29.0	128	-6	0.0
12491_13481	12491	13481	7,594	372	28.8	7,747	364	28.8	153	-8	0.0
13270_13482	13270	13482	22,231	2,001	21.9	22,225	2,134	21.8	-6	133	-0.1
13390_13482	13390	13482	12,427	510	29.9	12,616	505	29.8	189	-5	-0.1
13293_13483	13293	13483	17,779	1,262	36.8	17,953	1,275	36.8	174	12	0.0
13482_13483	13482	13483	23,892	2,102	6.3	24,233	2,205	6.4	341	103	0.1
12511_13992	12511	13992	3,701	196	22.9	3,784	204	22.9	83	8	0.0
13186_13992	13186	13992	4,566	27	26.0	4,754	29	26.0	188	1	0.1
13353_13992	13353	13992	3,090	9	14.8	2,872	9	14.8	-218	-1	0.0
12228_14004	12228	14004	40,699	2,645	7.1	41,310	2,768	6.9	611	122	-0.2
12480_14004	12480	14004	3,975	286	7.0	4,136	290	6.6	161	3	-0.4
14065_14073	14065	14073	7,703	1,032	15.4	9,933	1,073	15.0	2,230	41	-0.4
14107_14108	14107	14108	0	0	19.3	0	0	19.2	0	0	-0.1
14109_14110	14109	14110	32,543	2,441	10.8	32,304	2,423	11.1	-239	-18	0.3
14114_14116	14114	14116	1,471	68	14.9	1,471	68	14.9	0	0	-0.1

Road	A node	B node	Without the Proposed Scheme			With the Proposed Scheme			Change in AADT	Change in HDVs	Change in Speed
			AADT	HDVs	Speed (kph) ¹	AADT	HDVs	Speed (kph) ¹			
14116_14117	14116	14117	789	38	19.1	809	39	19.1	20	1	0.0
14130_14131	14130	14131	9,097	582	18.0	9,201	570	17.9	104	-12	0.0
14136_14211	14136	14211	5,951	220	11.7	6,603	264	11.1	652	44	-0.6
14129_14212	14129	14212	11,693	748	2.1	12,853	758	1.5	1,160	10	-0.5
14211_14219	14211	14219	1,865	0	21.4	2,375	0	21.0	510	0	-0.4
12399_14235	12399	14235	1,786	61	22.5	1,811	60	22.5	25	-1	0.0
14219_14235	14219	14235	1,169	5	23.7	1,277	5	23.7	108	0	0.0
14251_14253	14251	14253	12,891	168	30.8	13,751	179	30.8	860	11	0.0
12904_14284	12904	14284	7,747	658	24.0	7,890	694	24.0	143	36	0.0
14069_14294	14069	14294	38,813	3,571	18.7	39,038	3,552	18.2	225	-18	-0.4
14070_14294	14070	14294	31,421	2,734	11.7	31,859	2,772	11.3	438	38	-0.4
14099_14296	14099	14296	5,104	301	25.7	6,959	313	25.4	1,855	12	-0.3
14069_14297	14069	14297	3,851	169	25.3	4,718	208	25.3	867	38	-0.1
14069_14299	14069	14299	37,748	2,756	11.9	38,757	2,791	11.8	1,009	35	-0.1
14099_14301	14099	14301	5,765	421	4.4	6,496	416	3.6	731	-5	-0.8
14067_14303	14067	14303	37,020	2,925	5.4	38,774	3,024	5.4	1,754	100	0.0
14301_14303	14301	14303	34,162	1,981	11.7	37,218	2,010	11.1	3,056	28	-0.6
14305_14307	14305	14307	1,318	1,112	2.6	1,170	1,115	2.6	-148	3	0.0
14065_14308	14065	14308	11,481	873	2.6	13,474	957	2.5	1,993	84	-0.2
14308_14312	14308	14312	18,478	1,238	6.1	20,469	1,371	6.7	1,991	133	0.7

Road	A node	B node	Without the Proposed Scheme			With the Proposed Scheme			Change in AADT	Change in HDVs	Change in Speed
			AADT	HDVs	Speed (kph) ¹	AADT	HDVs	Speed (kph) ¹			
14305_14313	14305	14313	37,758	1,435	30.1	36,434	1,275	30.5	-1,324	-160	0.4
14312_14313	14312	14313	12,043	939	31.5	11,962	1,184	31.5	-81	245	0.0
14112_14314	14112	14314	8,902	499	33.0	11,054	630	33.0	2,152	132	0.0
14283_14315	14283	14315	41,702	2,711	23.9	44,706	2,951	23.8	3,004	240	-0.1
14310_14316	14310	14316	6,272	201	7.9	7,665	245	7.3	1,393	45	-0.6
14292_14320	14292	14320	9,396	366	19.7	7,288	350	21.6	-2,108	-17	1.9
14319_14323	14319	14323	1,224	1,182	5.9	1,210	1,171	5.9	-14	-11	0.1
14309_14324	14309	14324	8,441	2,212	3.1	7,901	2,181	3.1	-540	-31	0.0
14316_14325	14316	14325	7,404	222	4.7	8,362	268	3.0	958	45	-1.8
14324_14326	14324	14326	248	18	15.8	284	57	16.2	36	39	0.3
14323_14329	14323	14329	1,224	1,182	25.8	1,210	1,171	25.8	-14	-11	0.0
14329_14333	14329	14333	1,224	1,182	7.7	1,210	1,171	7.7	-14	-11	0.1
14325_14334	14325	14334	3,753	154	9.9	3,267	193	10.2	-486	39	0.3
14280_14336	14280	14336	3,910	508	8.1	3,370	489	8.4	-540	-20	0.3
14335_14336	14335	14336	3,953	166	4.7	3,683	129	5.2	-270	-37	0.5
14334_14338	14334	14338	11,208	616	2.9	10,817	660	3.3	-391	43	0.3
14281_14340	14281	14340	633	72	3.7	639	72	3.6	6	0	0.0
14292_14343	14292	14343	6,961	160	3.7	7,138	164	4.0	177	4	0.3
14309_14343	14309	14343	5,452	305	7.2	4,661	275	7.7	-791	-30	0.5
14326_14343	14326	14343	4,227	89	12.5	3,054	131	13.6	-1,173	43	1.1

Road	A node	B node	Without the Proposed Scheme			With the Proposed Scheme			Change in AADT	Change in HDVs	Change in Speed
			AADT	HDVs	Speed (kph) ¹	AADT	HDVs	Speed (kph) ¹			
14340_14344	14340	14344	20,563	3,023	7.0	19,052	2,934	7.1	-1,511	-89	0.1
14055_14350	14055	14350	19,261	2,716	2.8	19,006	2,737	2.8	-255	21	0.0
14344_14353	14344	14353	11,067	1,649	4.7	10,811	1,643	4.8	-256	-6	0.1
14302_14363	14302	14363	4,294	648	32.0	4,331	702	32.0	37	53	0.0
14297_14364	14297	14364	3,708	122	26.3	4,536	127	26.1	828	5	-0.2
14304_14364	14304	14364	1,334	63	28.3	2,527	51	27.7	1,193	-12	-0.6
14282_14365	14282	14365	3,118	259	20.4	2,401	262	22.0	-717	3	1.5
14336_14365	14336	14365	1,858	56	20.6	1,922	42	20.5	64	-13	-0.2
14304_14368	14304	14368	2,255	70	32.0	2,504	60	32.0	249	-10	0.0
14310_14369	14310	14369	4,621	416	23.0	5,090	468	22.9	469	52	0.0
14325_14370	14325	14370	4,138	356	22.9	4,021	350	22.9	-117	-6	0.0
14291_14371	14291	14371	557	82	22.3	553	76	22.3	-4	-6	0.0
14326_14373	14326	14373	3,953	166	28.0	3,683	129	28.0	-270	-37	0.0
14335_14373	14335	14373	9,949	816	28.0	8,710	810	28.0	-1,239	-6	0.0
14352_14378	14352	14378	2,179	102	32.0	2,216	104	32.0	37	2	0.0
14280_14382	14280	14382	1,145	173	19.5	1,029	173	19.6	-116	-0	0.0
14281_14382	14281	14382	7,845	282	16.3	7,656	268	16.0	-189	-14	-0.3
14282_14382	14282	14382	260	34	21.0	239	33	21.0	-21	-1	0.0
14004_14388	14004	14388	44,131	3,001	1.6	44,856	3,140	1.5	725	139	0.0
14283_14388	14283	14388	41,228	2,144	1.7	40,121	2,247	1.7	-1,107	103	0.0

Road	A node	B node	Without the Proposed Scheme			With the Proposed Scheme			Change in AADT	Change in HDVs	Change in Speed
			AADT	HDVs	Speed (kph) ¹	AADT	HDVs	Speed (kph) ¹			
14284_14388	14284	14388	11,567	671	7.1	11,710	714	7.1	143	43	-0.1
14067_14393	14067	14393	39,076	2,540	34.0	37,603	2,369	34.0	-1,473	-171	0.0
14305_14393	14305	14393	37,810	2,911	24.3	38,798	3,026	24.2	988	115	-0.1
14070_14418	14070	14418	38,105	3,506	29.2	38,317	3,487	29.2	212	-19	0.0
14109_14418	14109	14418	30,210	3,021	30.9	30,914	3,060	30.8	704	39	0.0
14338_14435	14338	14435	4,040	81	28.3	3,936	91	28.3	-104	10	0.0
14342_14436	14342	14436	172	170	30.0	172	170	30.0	0	0	0.0
14344_14436	14344	14436	21,360	2,884	28.0	21,097	2,890	28.0	-263	7	0.0
14337_14437	14337	14437	10,493	1,270	28.5	10,487	1,269	28.5	-6	-1	0.0
14342_14438	14342	14438	8,942	1,610	23.0	8,694	1,617	23.1	-248	8	0.1
14437_14438	14437	14438	10,322	1,104	23.8	10,316	1,104	23.8	-6	-1	0.0
14344_14448	14344	14448	172	170	40.0	172	170	40.0	0	0	0.0
14282_14449	14282	14449	9,354	580	25.9	9,556	602	25.8	202	22	-0.1
14347_14449	14347	14449	172	170	40.0	172	170	40.0	0	0	0.0
14347_14450	14347	14450	22,072	2,384	40.0	22,276	2,406	40.0	204	22	0.0
14448_14450	14448	14450	172	170	30.0	172	170	30.0	0	0	0.0
14449_14451	14449	14451	172	170	16.3	172	170	16.3	0	0	0.0
14324_14491	14324	14491	12,529	2,806	31.0	10,791	2,784	31.0	-1,738	-22	0.0
14327_14491	14327	14491	10,236	901	31.0	9,328	942	31.0	-908	41	0.0
14327_14493	14327	14493	18,242	3,119	31.0	17,111	3,097	31.0	-1,131	-22	0.0

Road	A node	B node	Without the Proposed Scheme			With the Proposed Scheme			Change in AADT	Change in HDVs	Change in Speed
			AADT	HDVs	Speed (kph) ¹	AADT	HDVs	Speed (kph) ¹			
14110_14505	14110	14505	10,675	1,153	23.1	10,494	1,165	23.1	-181	12	0.0
14099_14525	14099	14525	1,436	804	32.0	1,633	802	32.0	197	-2	0.0
14301_14526	14301	14526	33,300	1,898	8.2	34,847	1,917	7.6	1,547	18	-0.6
14521_14526	14521	14526	34,905	2,653	13.3	36,884	2,656	12.5	1,979	3	-0.8
14525_14526	14525	14526	1,435	804	2.1	1,635	803	1.8	200	-1	-0.3
14067_14527	14067	14527	4,566	132	21.4	0	0	20.3	-4,566	-132	-1.1
14320_14527	14320	14527	6,562	217	24.2	3,641	109	24.0	-2,921	-107	-0.3
14343_14528	14343	14528	2,107	99	22.1	1,394	59	22.3	-713	-40	0.2
14321_14529	14321	14529	1,370	52	25.0	2,143	43	25.0	773	-9	0.0
14313_14531	14313	14531	8,051	1,183	32.0	9,795	1,215	32.0	1,744	31	0.0
14301_14543	14301	14543	18,721	2,752	11.8	19,782	2,809	9.9	1,061	57	-1.9
14309_14543	14309	14543	13,993	1,707	27.4	14,303	1,802	27.7	310	95	0.2
14304_14544	14304	14544	3,473	271	19.5	2,845	242	19.6	-628	-29	0.1
14309_14544	14309	14544	3,720	67	20.1	3,318	86	20.3	-402	19	0.2
14333_14548	14333	14548	1,224	1,182	1.5	1,212	1,171	1.5	-12	-12	0.0
14283_14549	14283	14549	13,151	815	28.5	13,070	836	28.5	-81	21	0.0
14549_14550	14549	14550	1,800	23	28.6	2,161	32	28.5	361	9	0.0
14308_14551	14308	14551	3,431	1,410	30.0	3,033	1,274	30.0	-398	-136	0.0
14307_14552	14307	14552	2,532	1,175	30.0	3,194	1,326	30.0	662	151	0.0
14312_14552	14312	14552	7,854	471	30.0	10,593	508	30.0	2,739	37	0.0

Road	A node	B node	Without the Proposed Scheme			With the Proposed Scheme			Change in AADT	Change in HDVs	Change in Speed
			AADT	HDVs	Speed (kph) ¹	AADT	HDVs	Speed (kph) ¹			
14312_14553	14312	14553	1,038	999	30.0	1,025	990	30.0	-13	-8	0.0
14319_14553	14319	14553	9,249	2,174	4.1	9,560	2,103	1.7	311	-70	-2.3
14313_14565	14313	14565	49,795	2,390	23.2	48,376	2,467	19.7	-1,419	77	-3.5
14315_14565	14315	14565	41,703	2,711	16.6	44,706	2,951	16.5	3,003	240	-0.2
14099_14571	14099	14571	868	838	28.2	868	835	28.2	0	-3	0.0
14303_14571	14303	14571	977	924	15.4	979	921	15.4	2	-3	0.0
14320_14572	14320	14572	6,643	379	21.7	6,482	402	21.7	-161	23	0.0
14325_14572	14325	14572	3,965	52	23.0	5,364	64	23.0	1,399	13	0.0
14435_14572	14435	14572	26	0	20.5	24	0	20.5	-2	0	0.0
14435_14573	14435	14573	4,014	80	30.4	3,912	90	30.4	-102	10	0.0
14543_14574	14543	14574	5,068	294	30.0	4,253	362	30.0	-815	68	0.0
14280_14580	14280	14580	2,587	111	7.2	3,049	85	7.0	462	-26	-0.2
14340_14580	14340	14580	5,160	1,749	5.0	4,732	1,722	5.1	-428	-27	0.1
14493_14580	14493	14580	18,242	3,119	3.8	17,112	3,097	4.1	-1,130	-22	0.3
14553_14607	14553	14607	0	0	25.0	0	0	25.0	0	0	0.0
14070_14608	14070	14608	2,389	189	32.0	2,555	197	32.0	166	8	0.0
14296_14609	14296	14609	5,075	289	29.7	6,935	305	29.5	1,860	16	-0.2
14300_14612	14300	14612	747	50	21.6	754	50	21.6	7	-0	0.0
14612_14615	14612	14615	1,507	104	25.0	1,507	105	25.0	0	2	0.0
14070_14617	14070	14617	0	0	20.8	0	0	20.8	0	0	0.0

Road	A node	B node	Without the Proposed Scheme			With the Proposed Scheme			Change in AADT	Change in HDVs	Change in Speed
			AADT	HDVs	Speed (kph) ¹	AADT	HDVs	Speed (kph) ¹			
14616_14617	14616	14617	1,627	2	22.6	1,629	2	22.6	2	0	0.0
14418_14618	14418	14618	53	0	23.3	53	0	23.3	0	0	0.0
14618_14619	14618	14619	53	0	25.0	53	0	25.0	0	0	0.0
14300_14621	14300	14621	683	421	26.3	736	421	26.3	53	0	0.0
14302_14621	14302	14621	2,518	667	28.8	3,009	680	28.8	491	13	0.0
14612_14622	14612	14622	1,567	194	24.4	1,572	193	24.4	5	-1	0.0
14621_14622	14621	14622	0	0	23.7	0	0	23.7	0	0	0.0
14302_14623	14302	14623	3,289	276	23.5	2,903	250	23.6	-386	-27	0.0
14304_14623	14304	14623	2,847	145	29.0	3,128	194	29.0	281	49	0.0
14624_14625	14624	14625	245	12	13.7	287	12	13.6	42	0	-0.1
14211_14648	14211	14648	4,138	223	32.0	4,649	260	32.0	511	37	0.0
14136_14650	14136	14650	7,825	305	36.0	8,303	307	36.0	478	2	0.0
14137_14650	14137	14650	5,415	444	36.0	5,403	432	36.0	-12	-12	0.0
14113_14656	14113	14656	7,649	237	18.2	7,991	264	17.9	342	27	-0.3
14648_14656	14648	14656	4,138	223	17.7	4,650	260	17.3	512	37	-0.4
14526_14673	14526	14673	285	1	21.4	285	1	21.4	0	0	0.0
14673_14674	14673	14674	279	1	25.0	277	1	25.0	-2	-0	0.0
14129_14680	14129	14680	8,138	911	29.6	7,792	880	29.6	-346	-31	-0.1
14130_14680	14130	14680	1,047	852	24.6	1,239	850	24.6	192	-2	0.0
14136_14690	14136	14690	4,215	93	30.8	3,591	75	30.8	-624	-17	0.0

Road	A node	B node	Without the Proposed Scheme			With the Proposed Scheme			Change in AADT	Change in HDVs	Change in Speed
			AADT	HDVs	Speed (kph) ¹	AADT	HDVs	Speed (kph) ¹			
14673_14692	14673	14692	6	0	20.6	8	0	20.7	2	0	0.1
14680_14696	14680	14696	7,844	910	30.3	7,469	881	30.3	-375	-29	0.0
14691_14697	14691	14697	2,973	18	19.8	2,839	20	19.8	-134	2	0.0
14696_14697	14696	14697	956	98	20.7	900	94	20.6	-56	-5	-0.1
14073_14701	14073	14701	5,681	1,011	26.5	8,424	1,053	9.4	2,743	42	-17.1
14115_14701	14115	14701	12,220	758	23.5	13,905	862	6.5	1,685	104	-17.0
14655_14701	14655	14701	2,512	30	24.9	7	4	7.5	-2,505	-26	-17.4
14117_14704	14117	14704	782	31	15.1	801	31	14.8	19	-0	-0.3
14251_14704	14251	14704	7,884	339	28.7	8,025	329	28.7	141	-10	0.0
14692_14705	14692	14705	364	8	25.0	364	7	25.0	0	-1	0.0
14488_14707	14488	14707	2,517	38	20.8	2,610	18	20.8	93	-19	0.1
14706_14707	14706	14707	1,674	32	15.2	1,587	32	15.2	-87	-0	0.0
14544_14708	14544	14708	2,469	111	18.8	2,352	120	18.8	-117	9	0.0
14707_14708	14707	14708	1,520	27	22.0	1,621	6	22.0	101	-21	0.0
14299_14709	14299	14709	147	0	19.8	839	0	19.8	692	0	0.0
14324_14711	14324	14711	3,310	106	25.8	3,436	113	25.8	126	7	0.0
14322_14712	14322	14712	5,854	181	22.2	4,884	210	22.2	-970	29	0.0
14711_14713	14711	14713	2,416	29	21.1	2,411	29	21.1	-5	-0	0.0
14712_14713	14712	14713	0	0	17.4	0	0	17.4	0	0	0.0
14087_14714	14087	14714	7,844	306	25.7	8,138	317	25.4	294	11	-0.2

Road	A node	B node	Without the Proposed Scheme			With the Proposed Scheme			Change in AADT	Change in HDVs	Change in Speed
			AADT	HDVs	Speed (kph) ¹	AADT	HDVs	Speed (kph) ¹			
14604_14714	14604	14714	9,437	330	10.1	9,802	363	9.7	365	32	-0.4
14317_14715	14317	14715	384	0	23.9	454	0	23.8	70	0	0.0
14713_14715	14713	14715	2,384	0	20.9	2,379	0	20.9	-5	0	0.0
14137_14718	14137	14718	5,267	348	15.6	5,354	343	15.5	87	-5	0.0
14318_14720	14318	14720	5,392	146	22.8	5,416	146	22.8	24	1	0.0
14719_14720	14719	14720	7,064	325	12.2	6,903	324	12.2	-161	-1	0.1
14118_14721	14118	14721	0	0	12.4	2	0	12.6	2	0	0.2
14609_14721	14609	14721	5,074	289	23.2	6,811	306	24.4	1,737	17	1.2
14112_14722	14112	14722	11,127	367	25.2	11,357	420	25.1	230	53	-0.1
14113_14722	14113	14722	5,560	222	30.0	6,206	273	30.0	646	51	-0.1
14115_14724	14115	14724	2,563	44	25.0	151	128	25.0	-2,412	84	0.0
14723_14725	14723	14725	876	54	23.6	0	0	23.7	-876	-54	0.1
14724_14725	14724	14725	2,563	44	17.0	0	0	18.1	-2,563	-44	1.1
13391_14726	13391	14726	2,607	0	20.5	2,489	0	20.5	-118	0	0.0
14004_14726	14004	14726	2,202	0	23.9	2,447	0	23.9	245	0	0.0
14235_14726	14235	14726	2,954	65	24.4	3,088	65	24.4	134	-0	0.0
14436_14729	14436	14729	3,069	98	22.4	3,015	99	22.4	-54	1	0.0
14720_14729	14720	14729	4,016	225	22.6	4,047	223	22.6	31	-2	0.0
14219_14737	14219	14737	1,486	0	17.5	1,921	0	16.8	435	0	-0.7
14118_14744	14118	14744	1,946	80	17.3	2,458	76	17.5	512	-4	0.2

Road	A node	B node	Without the Proposed Scheme			With the Proposed Scheme			Change in AADT	Change in HDVs	Change in Speed
			AADT	HDVs	Speed (kph) ¹	AADT	HDVs	Speed (kph) ¹			
14323_14746	14323	14746	2,305	260	27.6	1,841	228	27.6	-464	-32	0.0
14369_14746	14369	14746	0	0	18.2	0	0	18.5	0	0	0.3
14292_14748	14292	14748	6	3	22.1	36	9	22.3	30	6	0.2
14527_14748	14527	14748	2,224	44	20.4	0	0	20.2	-2,224	-44	-0.2
14528_14748	14528	14748	6,714	336	26.2	4,733	379	26.5	-1,981	43	0.3
14289_14751	14289	14751	9,720	321	21.7	9,685	300	21.7	-35	-21	0.0
14371_14751	14371	14751	55	42	17.3	35	30	17.3	-20	-12	0.0
14654_14753	14654	14753	85	80	24.9	121	102	24.9	36	22	0.0
14690_14753	14690	14753	2,340	87	25.2	2,090	82	24.8	-250	-5	-0.3
14753_14754	14753	14754	182	0	19.5	174	0	19.5	-8	0	0.0
14654_14755	14654	14755	212	25	26.3	522	8	26.3	310	-17	0.0
14655_14755	14655	14755	606	89	24.9	1,491	112	24.9	885	23	0.0
14754_14755	14754	14755	1,191	11	14.2	1,256	0	14.2	65	-11	-0.1
14115_14756	14115	14756	7,927	912	24.0	5,538	814	28.8	-2,389	-98	4.8
14755_14756	14755	14756	2	2	16.8	0	0	16.9	-2	-2	0.1
14695_14758	14695	14758	7,841	706	17.2	7,911	704	17.0	70	-2	-0.2
14758_14760	14758	14760	7,823	688	24.2	7,891	687	24.2	68	-2	0.0
14758_14761	14758	14761	211	18	18.7	109	18	19.0	-102	0	0.3
14690_14762	14690	14762	3,809	198	17.1	3,717	227	17.1	-92	29	0.0
14761_14763	14761	14763	513	10	20.0	546	10	20.0	33	0	0.0

Road	A node	B node	Without the Proposed Scheme			With the Proposed Scheme			Change in AADT	Change in HDVs	Change in Speed
			AADT	HDVs	Speed (kph) ¹	AADT	HDVs	Speed (kph) ¹			
14763_14765	14763	14765	513	10	13.5	546	10	13.5	33	0	0.0
14764_14765	14764	14765	0	0	25.6	0	0	25.6	0	0	0.0
14764_14766	14764	14766	0	0	20.0	0	0	20.0	0	0	0.0
14697_14767	14697	14767	214	91	17.9	285	88	19.0	71	-3	1.1
14765_14767	14765	14767	0	0	18.6	0	0	18.6	0	0	0.0
14299_14768	14299	14768	37,821	2,761	11.3	38,837	2,796	11.0	1,016	35	-0.3
14521_14768	14521	14768	33,878	2,710	5.7	34,610	2,734	5.5	732	24	-0.1
14521_14769	14521	14769	3,353	396	18.9	3,493	388	18.8	140	-8	-0.1
14709_14769	14709	14769	617	17	22.9	942	30	22.9	325	13	0.0
14744_14769	14744	14769	2,019	103	2.3	2,178	74	1.8	159	-29	-0.5
14319_14770	14319	14770	54	0	23.3	364	0	23.1	310	0	-0.1
14607_14770	14607	14770	0	0	19.5	0	0	19.5	0	0	0.0
14751_14771	14751	14771	5,329	368	22.5	4,984	349	22.6	-345	-19	0.0
14770_14771	14770	14771	0	0	17.1	181	0	17.3	181	0	0.2
14329_14772	14329	14772	5,499	418	26.6	5,724	418	26.5	225	-0	0.0
14771_14772	14771	14772	0	0	17.2	0	0	17.2	0	0	-0.1
14129_14775	14129	14775	1,904	227	23.1	1,795	194	23.1	-109	-33	0.0
14766_14775	14766	14775	0	0	12.1	0	0	12.1	0	0	0.0
14767_14775	14767	14775	181	0	23.2	201	0	23.2	20	0	0.0
14317_14796	14317	14796	5,990	150	28.2	6,851	123	28.2	861	-26	0.0

Road	A node	B node	Without the Proposed Scheme			With the Proposed Scheme			Change in AADT	Change in HDVs	Change in Speed
			AADT	HDVs	Speed (kph) ¹	AADT	HDVs	Speed (kph) ¹			
14368_14796	14368	14796	2,255	70	19.5	2,504	60	19.5	249	-10	0.0
14529_14797	14529	14797	1,370	52	18.9	2,143	43	18.8	773	-9	0.0
14796_14797	14796	14797	6,129	123	27.7	6,339	95	27.7	210	-27	0.0
14297_14804	14297	14804	643	82	20.5	1,466	91	20.1	823	9	-0.4
14692_14804	14692	14804	446	52	21.1	418	31	21.0	-28	-21	0.0
14565_14830	14565	14830	536	18	20.0	633	18	20.0	97	-1	0.0
14130_14902	14130	14902	334	331	30.6	334	331	30.6	0	0	0.0
14251_14902	14251	14902	2,025	304	14.0	1,841	298	14.1	-184	-6	0.1
14709_14903	14709	14903	1,305	95	20.0	2,040	86	20.0	735	-10	0.0
14116_14904	14116	14904	682	30	17.8	662	28	17.8	-20	-2	0.0
14744_14904	14744	14904	10	0	15.9	280	0	15.7	270	0	-0.2
14903_14904	14903	14904	1,305	95	14.0	2,040	86	13.2	735	-10	-0.9
14117_14905	14117	14905	7	7	17.6	8	8	17.5	1	1	0.0
14118_14905	14118	14905	39	1	15.8	40	1	15.7	1	-0	-0.1
14904_14905	14904	14905	873	75	19.1	1,434	65	19.1	561	-11	0.0
14721_14906	14721	14906	5,589	313	29.3	6,459	329	29.2	870	16	-0.1
14905_14906	14905	14906	879	81	19.0	1,442	72	18.7	563	-9	-0.3
14132_14907	14132	14907	11,146	100	33.0	10,794	97	33.0	-352	-3	0.0
14307_14908	14307	14908	6,047	381	21.7	7,989	415	19.1	1,942	34	-2.6
14310_14908	14310	14908	1,181	107	30.0	1,798	259	30.0	617	151	0.0

Road	A node	B node	Without the Proposed Scheme			With the Proposed Scheme			Change in AADT	Change in HDVs	Change in Speed
			AADT	HDVs	Speed (kph) ¹	AADT	HDVs	Speed (kph) ¹			
14527_14908	14527	14908	4,646	107	11.6	4,550	159	10.6	-96	52	-1.0
14754_14909	14754	14909	1,078	2	25.0	1,195	12	25.0	117	10	0.0
14909_14910	14909	14910	1,078	2	25.0	1,195	12	25.0	117	10	0.0
14655_14911	14655	14911	6	0	23.8	405	0	23.8	399	0	0.0
14656_14911	14656	14911	1,342	0	23.5	1,288	0	23.4	-54	0	0.0
14910_14911	14910	14911	1,078	2	15.1	1,195	12	15.0	117	10	-0.1
14221_14912	14221	14912	7,652	253	22.6	7,609	251	22.6	-43	-1	0.1
14902_14912	14902	14912	1,227	70	23.8	1,107	79	23.7	-120	9	-0.1
14704_14952	14704	14952	7,215	325	30.1	7,454	321	30.1	239	-4	0.0
14906_14952	14906	14952	6,943	375	26.8	8,724	384	26.6	1,781	9	-0.2
14952_14953	14952	14953	58	15	32.0	33	8	32.0	-25	-7	0.0
14136_14954	14136	14954	5,421	455	35.0	5,569	440	35.0	148	-15	0.0
14236_14954	14236	14954	8,556	402	35.0	8,314	399	35.0	-242	-3	0.0
14212_14965	14212	14965	13,777	758	33.1	13,770	757	33.1	-7	-0	0.0
14756_14965	14756	14965	7,152	937	28.0	5,610	903	28.0	-1,542	-34	0.0
14067_14971	14067	14971	6,063	55	16.3	9	4	29.5	-6,054	-51	13.2
14701_14972	14701	14972	0	0	21.4	5,501	0	20.4	5,501	0	-1.1
14342_15060	14342	15060	8,611	1,145	26.4	8,659	1,134	26.4	48	-11	0.0
14437_15060	14437	15060	172	170	32.0	172	170	32.0	0	0	0.0
14729_15060	14729	15060	4,016	225	24.6	4,047	223	24.6	31	-2	0.0

Road	A node	B node	Without the Proposed Scheme			With the Proposed Scheme			Change in AADT	Change in HDVs	Change in Speed
			AADT	HDVs	Speed (kph) ¹	AADT	HDVs	Speed (kph) ¹			
14073_15501	14073	15501	2,021	22	23.9	1,517	29	23.9	-504	7	0.0
14655_15501	14655	15501	1,588	24	24.4	2,689	27	24.4	1,101	3	0.0
14722_15501	14722	15501	523	81	24.0	607	110	24.0	84	29	0.0
14073_15502	14073	15502	1,174	59	19.9	1,460	0	18.9	286	-59	-1.0
15502_15503	15502	15503	827	92	22.5	0	0	18.5	-827	-92	-4.0
14972_15504	14972	15504	0	0	20.3	3,632	0	23.1	3,632	0	2.9
15503_15504	15503	15504	0	0	18.5	3,991	8	11.1	3,991	8	-7.4
15502_15505	15502	15505	0	0	25.0	0	0	25.0	0	0	0.0
15504_15505	15504	15505	0	0	25.0	0	0	25.0	0	0	0.0
15502_15507	15502	15507	898	37	21.0	1,612	0	20.8	714	-37	-0.2
15506_15507	15506	15507	603	0	19.2	0	0	19.3	-603	0	0.0
14306_15509	14306	15509	1,141	94	16.0	988	24	13.3	-153	-70	-2.7
15507_15509	15507	15509	1,601	40	20.7	1,652	0	20.7	51	-40	0.0
15508_15510	15508	15510	0	0	16.2	272	9	16.2	272	9	0.0
14723_15511	14723	15511	3,563	153	15.1	0	0	14.8	-3,563	-153	-0.4
14971_15511	14971	15511	2,189	57	20.6	9	4	19.8	-2,180	-53	-0.8
14756_15513	14756	15513	0	0	25.0	54	13	25.0	54	13	0.0
15503_15516	15503	15516	0	0	25.0	3,632	0	25.0	3,632	0	0.0
15506_15516	15506	15516	0	0	9.1	0	0	8.6	0	0	-0.5
15510_15516	15510	15516	1,759	4	16.8	3,991	8	17.5	2,232	4	0.7

Road	A node	B node	Without the Proposed Scheme			With the Proposed Scheme			Change in AADT	Change in HDVs	Change in Speed
			AADT	HDVs	Speed (kph) ¹	AADT	HDVs	Speed (kph) ¹			
14365_15900	14365	15900	2,666	296	18.5	2,692	304	18.5	26	8	0.0
14366_15900	14366	15900	7,819	813	23.3	8,118	869	23.2	299	55	0.0
14108_16000	14108	16000	6,958	605	5.3	7,699	624	5.2	741	18	-0.2
14108_16001	14108	16001	3,901	156	12.4	4,253	174	12.2	352	18	-0.2
16000_16045	16000	16045	7,236	622	26.6	7,607	647	26.5	371	24	-0.1
14110_16177	14110	16177	35,340	2,792	17.8	35,415	2,798	17.5	75	6	-0.4
16177_16180	16177	16180	8,896	810	24.1	9,044	814	24.1	148	4	0.0
14087_16378	14087	16378	3,695	89	25.0	3,618	98	25.0	-77	9	0.0
16000_16378	16000	16378	6,091	213	25.0	6,357	203	25.0	266	-10	0.0
14109_16387	14109	16387	11,280	1,466	32.0	12,074	1,485	32.0	794	19	0.0

CFA002 2012 Baseline Traffic Data

Table 1: Traffic data used in the baseline assessment

Road	A node	B node	Without the Proposed Scheme		
			AADT	HDVs	Speed (kph) ¹
14017_14016	14017	14016	489	72	18.8
14128_14127	14128	14127	4,005	429	19.2
14144_14127	14144	14127	7,275	284	33.3
14144_14142	14144	14142	549	15	10.0
14146_14141	14146	14141	14,363	991	22.5
14147_14128	14147	14128	9,635	299	44.2
14148_14146	14148	14146	11,887	725	12.9
14148_14147	14148	14147	5,837	198	16.1
14160_14016	14160	14016	8,864	470	22.8
14160_14159	14160	14159	3,972	266	27.4
14161_14016	14161	14016	9,449	435	21.1
14161_14140	14161	14140	7,181	682	8.8
14162_14160	14162	14160	2,848	288	2.3
14163_14161	14163	14161	598	160	15.1
14166_14148	14166	14148	2,657	247	17.2
14166_14165	14166	14165	4,602	373	13.5

¹ Where speeds are less than 5 kph, a speed of 5 kph is used in the Defra Emissions Factor Toolkit (EFT) v6.o.2 because this is the lowest speed that the EFT can produce output for.

Road	A node	B node	Without the Proposed Scheme		
			AADT	HDVs	Speed (kph) ¹
14168_14141	14168	14141	13,705	1466	15.0
14168_14165	14168	14165	5,812	453	15.1
14199_14168	14199	14168	6,922	775	23.1
14222_14138	14222	14138	7,419	786	12.0
14222_14142	14222	14142	71	9	7.3
14223_14141	14223	14141	10,467	837	20.9
14226_14140	14226	14140	13,204	871	28.1
14228_14168	14228	14168	11,607	824	16.5
14229_14165	14229	14165	1,196	106	14.2
14229_14228	14229	14228	1,716	88	22.0
14230_14229	14230	14229	1,422	141	23.9
14293_14109	14293	14109	32,609	4076	12.7
14418_14109	14418	14109	37,523	3527	13.9
14505_14293	14505	14293	12,172	2008	0.8
14634_14230	14634	14230	444	34	12.5
14636_14635	14636	14635	-	0	21.8
14637_14164	14637	14164	9,804	696	15.6
14638_14164	14638	14164	8,652	692	16.1
14638_14165	14638	14165	10,231	675	11.2
14640_14638	14640	14638	467	21	22.6

Road	A node	B node	Without the Proposed Scheme		
			AADT	HDVs	Speed (kph) ¹
14650_14137	14650	14137	10,151	305	6.3
14653_14148	14653	14148	17,678	866	4.0
14693_14139	14693	14139	16,258	764	8.2
14694_14214	14694	14214	1,637	16	25.0
14694_14226	14694	14226	3,014	232	7.6
14694_14693	14694	14693	1,668	18	12.5
14695_14691	14695	14691	1,950	0	21.5
14695_14693	14695	14693	10	7	13.4
14699_14138	14699	14138	13,684	1464	7.0
14700_14222	14700	14222	12,252	2365	28.3
14718_14137	14718	14137	4,451	240	4.3
14718_14214	14718	14214	1,989	38	25.0
14718_14217	14718	14217	5,262	253	24.5
14732_14637	14732	14637	9,741	692	29.2
14733_14164	14733	14164	1,412	143	6.0
14733_14230	14733	14230	2,466	377	4.1
14733_14636	14733	14636	2,908	116	24.0
14759_14693	14759	14693	16,734	937	13.0
14759_14758	14759	14758	332	3	19.3
14760_14137	14760	14137	11,165	1384	6.7

Road	A node	B node	Without the Proposed Scheme		
			AADT	HDVs	Speed (kph) ¹
14761_14758	14761	14758	20	0	17.7
14762_14760	14762	14760	3,141	594	21.0
14818_14230	14818	14230	6,665	360	13.9
16000_14108	16000	14108	4,053	158	27.1
16001_14107	16001	14107	8,918	936	26.3
16001_14108	16001	14108	8,682	625	28.9
16045_16000	16045	16000	7,302	299	11.4
16142_14110	16142	14110	12,182	1096	8.8
16177_14505	16177	14505	1,561	890	28.2
16251_16177	16251	16177	1,561	890	5.3
16252_16251	16252	16251	1,561	890	32.0
16376_16374	16376	16374	6,479	162	13.7
16378_16000	16378	16000	2,753	63	14.4
16381_16251	16381	16251	464	22	16.8
16387_16001	16387	16001	13,052	1109	16.6
16791_14147	16791	14147	4,969	323	19.7
14157_14155	14157	14155	36,587	2964	17.3
14107_14108	14107	14108	-	0	19.2
14109_14110	14109	14110	28,672	2437	14.3
14138_14139	14138	14139	13,962	1745	9.8

Road	A node	B node	Without the Proposed Scheme		
			AADT	HDVs	Speed (kph) ¹
14141_14142	14141	14142	15,431	478	22.0
14127_14143	14127	14143	12,091	810	30.6
14142_14144	14142	14144	5,235	215	22.9
14141_14146	14141	14146	13,717	878	15.6
14143_14146	14143	14146	9,582	786	8.8
14143_14147	14143	14147	2,258	32	13.7
14146_14148	14146	14148	15,141	787	14.5
14016_14160	14016	14160	9,515	504	12.8
14159_14160	14159	14160	4,962	268	26.7
14016_14161	14016	14161	9,419	471	18.9
14140_14161	14140	14161	9,731	681	15.7
14160_14162	14160	14162	4,181	368	14.0
14161_14163	14161	14163	2,538	272	18.9
14146_14166	14146	14166	5,053	526	25.8
14165_14166	14165	14166	2,233	118	10.1
14165_14168	14165	14168	7,838	588	7.6
14139_14199	14139	14199	6,922	775	15.1
14168_14199	14168	14199	6,483	194	13.7
14142_14222	14142	14222	-	0	20.3
14139_14223	14139	14223	10,467	837	23.3

Road	A node	B node	Without the Proposed Scheme		
			AADT	HDVs	Speed (kph) ¹
14141_14223	14141	14223	11,210	1861	21.8
14139_14226	14139	14226	9,307	782	18.5
14199_14226	14199	14226	4,453	142	10.9
14140_14228	14140	14228	10,475	859	32.9
14165_14229	14165	14229	1,514	70	20.6
14228_14229	14228	14229	1,454	144	23.5
14229_14230	14229	14230	638	95	8.6
14109_14418	14109	14418	26,500	2809	31.1
14110_14505	14110	14505	10,631	1095	23.1
14230_14634	14230	14634	1,810	116	23.0
14635_14636	14635	14636	1	0	22.1
14164_14637	14164	14637	6,940	562	29.6
14636_14637	14636	14637	2,909	116	12.0
14164_14638	14164	14638	10,372	674	29.1
14165_14638	14165	14638	10,388	696	22.5
14638_14640	14638	14640	2,018	16	24.1
14137_14650	14137	14650	7,229	376	36.0
14142_14651	14142	14651	8,404	269	21.8
14148_14653	14148	14653	16,598	846	25.1
14214_14694	14214	14694	462	0	21.9

Road	A node	B node	Without the Proposed Scheme		
			AADT	HDVs	Speed (kph) ¹
14226_14694	14226	14694	4,448	267	23.3
14693_14694	14693	14694	1,055	235	20.5
14138_14695	14138	14695	8,171	678	31.5
14691_14695	14691	14695	43	7	20.6
14693_14695	14693	14695	1,032	6	20.9
14222_14698	14222	14698	5,883	1506	29.1
14139_14700	14139	14700	1,058	108	19.5
14223_14700	14223	14700	11,192	2261	28.0
14137_14718	14137	14718	4,408	357	17.7
14214_14718	14214	14718	2,566	26	11.4
14217_14718	14217	14718	5,062	228	19.7
14637_14732	14637	14732	10,329	640	29.1
14164_14733	14164	14733	2,466	377	25.0
14230_14733	14230	14733	4,320	259	19.4
14636_14733	14636	14733	-	0	20.8
14695_14758	14695	14758	7,227	679	17.1
14137_14759	14137	14759	17,209	946	29.8
14758_14760	14758	14760	7,220	657	24.2
14758_14761	14758	14761	359	30	18.5
14230_14818	14230	14818	2,301	336	24.2

Road	A node	B node	Without the Proposed Scheme		
			AADT	HDVs	Speed (kph) ¹
14128_14819	14128	14819	5,475	71	28.5
14108_16000	14108	16000	8,682	625	4.9
14108_16001	14108	16001	4,053	158	12.4
16000_16045	16000	16045	7,663	628	27.0
14107_16142	14107	16142	8,918	936	22.2
14110_16177	14110	16177	31,579	2779	19.9
16177_16180	16177	16180	6,964	766	24.5
16177_16251	16177	16251	23,625	1843	31.5
16251_16252	16251	16252	24,345	1875	30.0
16374_16376	16374	16376	4,574	114	25.0
16000_16378	16000	16378	6,502	202	25.0
14109_16387	14109	16387	13,371	1417	32.0
14147_16791	14147	16791	3,794	186	15.4

CFAoo2 Construction Traffic Data - Test 1

Table 2: Traffic data used in the construction assessment

Road	A node	B node	Without the Proposed Scheme			With the Proposed Scheme			Change in AADT	Change in HDVs	Change in Speed
			AADT	HDVs	Speed (kph) ¹	AADT	HDVs	Speed (kph) ¹			
14017_14016	14017	14016	1,482	71	18.0	1,419	71	17.8	-63	0	-0.3
14128_14127	14128	14127	4,112	378	18.9	4,075	375	19.0	-37	-3	0.0
14144_14127	14144	14127	9,173	394	33.2	8,961	430	33.2	-212	36	0.0
14144_14142	14144	14142	544	32	9.9	573	32	9.9	29	0	0.0
14146_14141	14146	14141	13,595	965	23.3	13,238	927	23.4	-357	-39	0.1
14147_14128	14147	14128	10,308	268	44.2	10,360	269	43.1	52	1	-1.1
14148_14146	14148	14146	11,176	771	13.1	10,889	730	13.3	-287	-42	0.1
14148_14147	14148	14147	6,231	193	15.9	6,492	195	15.7	261	2	-0.2
14160_14016	14160	14016	7,367	449	23.4	7,852	510	23.0	485	61	-0.4
14160_14159	14160	14159	3,764	275	27.4	4,229	275	27.2	465	0	-0.1
14161_14016	14161	14016	8,378	461	21.2	9,046	470	21.1	668	10	-0.1
14161_14140	14161	14140	7,163	688	9.0	7,190	755	7.9	27	67	-1.0
14162_14160	14162	14160	287	277	2.4	318	277	2.4	31	0	0.0
14163_14161	14163	14161	288	162	15.7	178	160	15.9	-110	-2	0.2
14166_14148	14166	14148	3,141	242	16.8	3,225	242	16.8	84	0	-0.1
14166_14165	14166	14165	4,781	373	13.4	4,821	371	13.3	40	-2	0.0
14168_14141	14168	14141	13,694	1,479	14.8	14,300	1,487	14.5	606	8	-0.3

Road	A node	B node	Without the Proposed Scheme			With the Proposed Scheme			Change in AADT	Change in HDVs	Change in Speed
			AADT	HDVs	Speed (kph) ¹	AADT	HDVs	Speed (kph) ¹			
14168_14165	14168	14165	5,757	472	15.1	5,156	464	15.6	-601	-8	0.5
14199_14168	14199	14168	6,955	793	22.9	6,221	784	23.6	-734	-9	0.7
14222_14138	14222	14138	5,906	791	12.3	5,644	694	12.4	-262	-97	0.1
14222_14142	14222	14142	406	32	5.8	646	28	5.3	240	-4	-0.5
14223_14141	14223	14141	6,309	732	23.7	6,140	657	23.8	-169	-75	0.0
14226_14140	14226	14140	12,426	857	27.6	13,929	864	26.9	1,503	6	-0.6
14228_14168	14228	14168	12,335	802	16.4	12,937	867	16.2	602	65	-0.2
14229_14165	14229	14165	1,669	139	13.7	2,250	140	13.2	581	1	-0.5
14229_14228	14229	14228	2,532	89	21.9	2,940	91	21.9	408	3	-0.1
14230_14229	14230	14229	2,368	144	23.9	2,723	144	23.8	355	0	0.0
14293_14109	14293	14109	37,067	4,411	11.7	37,004	4,440	11.6	-63	30	-0.1
14418_14109	14418	14109	38,222	3,516	10.9	37,887	3,523	11.3	-335	7	0.4
14505_14293	14505	14293	11,886	2,116	0.8	11,832	2,153	0.8	-54	38	0.0
14634_14230	14634	14230	467	33	12.5	478	33	12.5	11	0	0.0
14636_14635	14636	14635	0	0	21.8	0	0	21.8	0	0	0.0
14637_14164	14637	14164	9,725	710	17.0	9,730	710	17.1	5	0	0.0
14638_14164	14638	14164	9,040	705	16.6	8,924	696	16.7	-116	-9	0.1
14638_14165	14638	14165	10,721	718	11.0	10,793	702	11.0	72	-17	0.0
14640_14638	14640	14638	536	25	22.6	578	20	22.6	42	-5	0.0
14650_14137	14650	14137	7,993	312	7.5	9,990	260	7.3	1,997	-52	-0.2

Road	A node	B node	Without the Proposed Scheme			With the Proposed Scheme			Change in AADT	Change in HDVs	Change in Speed
			AADT	HDVs	Speed (kph) ¹	AADT	HDVs	Speed (kph) ¹			
14653_14148	14653	14148	17,401	905	3.9	17,334	867	3.9	-67	-38	0.0
14693_14139	14693	14139	15,013	721	9.7	15,917	653	8.7	904	-68	-0.9
14694_14214	14694	14214	2,078	17	25.0	2,112	59	25.0	34	43	0.0
14694_14226	14694	14226	3,469	125	7.3	4,080	126	6.4	611	2	-0.8
14694_14693	14694	14693	1,245	25	12.9	1,336	25	12.8	91	0	-0.1
14695_14691	14695	14691	940	1	21.6	929	1	22.0	-11	0	0.4
14695_14693	14695	14693	16	8	13.4	21	7	13.4	5	-1	0.0
14699_14138	14699	14138	11,448	1,511	7.1	11,983	1,510	7.0	535	-1	0.0
14700_14222	14700	14222	11,062	2,400	25.7	12,244	2,302	25.7	1,182	-99	0.0
14718_14137	14718	14137	5,568	278	4.4	6,629	471	3.3	1,061	192	-1.1
14718_14214	14718	14214	2,005	28	25.0	2,684	35	25.0	679	7	0.0
14718_14217	14718	14217	6,695	261	24.4	8,398	680	24.3	1,703	419	-0.1
14732_14637	14732	14637	9,645	714	29.2	9,650	704	29.2	5	-9	0.0
14733_14164	14733	14164	1,636	159	6.2	1,692	156	6.2	56	-3	-0.1
14733_14230	14733	14230	2,837	389	4.0	2,881	389	4.0	44	0	0.0
14733_14636	14733	14636	2,375	81	24.0	2,374	83	24.0	-1	2	0.0
14759_14693	14759	14693	16,006	832	13.3	16,845	758	13.0	839	-74	-0.2
14759_14758	14759	14758	209	3	19.3	1,377	29	19.3	1,168	26	0.0
14760_14137	14760	14137	10,360	1,285	6.2	10,080	1,048	4.7	-280	-236	-1.6
14761_14758	14761	14758	0	0	17.7	0	0	17.7	0	0	0.0

Road	A node	B node	Without the Proposed Scheme			With the Proposed Scheme			Change in AADT	Change in HDVs	Change in Speed
			AADT	HDVs	Speed (kph) ¹	AADT	HDVs	Speed (kph) ¹			
14762_14760	14762	14760	2,386	489	21.2	2,078	378	21.3	-308	-111	0.1
14818_14230	14818	14230	6,805	340	13.6	7,174	337	12.7	369	-3	-1.0
16000_14108	16000	14108	4,028	157	27.1	4,119	161	27.1	91	4	0.0
16001_14107	16001	14107	8,676	998	26.3	8,758	1,007	26.3	82	9	0.0
16001_14108	16001	14108	7,291	620	29.1	7,575	629	29.0	284	9	0.0
16045_16000	16045	16000	6,823	280	12.2	6,887	289	12.2	64	10	0.1
16142_14110	16142	14110	12,234	1,162	8.8	12,248	1,188	8.8	14	26	0.0
16177_14505	16177	14505	1,210	904	28.2	1,207	905	28.2	-3	1	0.0
16251_16177	16251	16177	1,209	904	5.2	1,207	905	5.2	-2	1	0.0
16252_16251	16252	16251	1,209	904	32.0	1,207	905	32.0	-2	1	0.0
16376_16374	16376	16374	6,429	167	13.7	6,424	167	13.7	-5	0	0.0
16378_16000	16378	16000	3,535	85	14.1	3,259	81	14.2	-276	-3	0.1
16381_16251	16381	16251	434	23	16.6	437	23	16.6	3	0	0.1
16387_16001	16387	16001	11,401	1,174	16.4	11,668	1,178	16.5	267	4	0.1
16791_14147	16791	14147	5,308	281	19.5	5,244	278	19.5	-64	-3	0.1
14107_14108	14107	14108	0	0	19.3	0	0	19.3	0	0	0.0
14109_14110	14109	14110	32,293	2,422	11.1	31,805	2,449	11.6	-488	27	0.4
14138_14139	14138	14139	10,559	1,763	10.0	11,173	1,777	9.9	614	13	-0.1
14141_14142	14141	14142	16,506	479	22.0	17,080	478	22.0	574	0	-0.1
14127_14143	14127	14143	14,116	847	30.4	13,863	887	30.5	-253	40	0.0

Road	A node	B node	Without the Proposed Scheme			With the Proposed Scheme			Change in AADT	Change in HDVs	Change in Speed
			AADT	HDVs	Speed (kph) ¹	AADT	HDVs	Speed (kph) ¹			
14142_14144	14142	14144	5,846	216	21.9	5,990	222	21.9	144	5	0.1
14141_14146	14141	14146	10,597	784	17.6	10,497	756	17.8	-100	-28	0.2
14143_14146	14143	14146	11,170	782	9.2	11,082	820	9.3	-88	38	0.1
14143_14147	14143	14147	2,652	56	13.4	2,497	55	13.5	-155	-1	0.1
14146_14148	14146	14148	13,771	785	15.8	13,565	787	15.9	-206	2	0.1
14016_14160	14016	14160	8,445	524	12.8	9,113	529	12.5	668	5	-0.3
14159_14160	14159	14160	5,824	256	26.6	6,211	323	26.6	387	67	-0.1
14016_14161	14016	14161	9,224	452	18.9	9,635	520	18.7	411	68	-0.2
14140_14161	14140	14161	8,470	652	17.1	9,161	660	16.5	691	7	-0.5
14160_14162	14160	14162	3,457	391	15.0	3,551	398	15.0	94	7	0.0
14161_14163	14161	14163	1,978	174	16.9	2,171	178	16.6	193	4	-0.2
14146_14166	14146	14166	5,181	508	25.8	5,265	505	25.8	84	-2	-0.1
14165_14166	14165	14166	2,763	130	9.5	2,804	126	9.5	41	-4	0.0
14165_14168	14165	14168	7,766	606	7.6	7,796	600	7.6	30	-5	0.0
14139_14199	14139	14199	6,955	793	15.1	6,221	784	15.6	-734	-9	0.5
14168_14199	14168	14199	7,325	212	12.6	7,322	242	12.7	-3	29	0.1
14142_14222	14142	14222	817	18	20.2	821	18	20.1	4	0	-0.2
14139_14223	14139	14223	6,309	732	23.3	6,140	657	23.4	-169	-75	0.1
14141_14223	14141	14223	8,194	1,860	23.5	7,892	1,768	23.7	-302	-92	0.2
14139_14226	14139	14226	7,620	800	18.7	8,304	805	18.6	684	5	-0.1

Road	A node	B node	Without the Proposed Scheme			With the Proposed Scheme			Change in AADT	Change in HDVs	Change in Speed
			AADT	HDVs	Speed (kph) ¹	AADT	HDVs	Speed (kph) ¹			
14199_14226	14199	14226	5,027	156	9.9	5,024	191	9.8	-3	35	0.0
14140_14228	14140	14228	11,022	882	32.9	11,790	931	32.9	768	50	0.0
14165_14229	14165	14229	1,472	68	20.5	1,484	68	20.5	12	1	-0.1
14228_14229	14228	14229	2,114	182	23.2	2,661	184	22.9	547	2	-0.3
14229_14230	14229	14230	805	103	8.5	740	104	8.5	-65	1	0.0
14109_14418	14109	14418	29,859	3,016	30.9	29,647	3,054	30.9	-212	38	0.0
14110_14505	14110	14505	10,712	1,178	23.1	10,660	1,226	23.1	-52	48	0.0
14230_14634	14230	14634	1,497	112	23.2	1,419	115	23.2	-78	3	0.0
14635_14636	14635	14636	0	0	22.2	0	0	22.2	0	0	0.0
14164_14637	14164	14637	6,890	565	29.6	6,720	558	29.6	-170	-7	0.0
14636_14637	14636	14637	2,375	81	12.1	2,374	83	12.2	-1	2	0.0
14164_14638	14164	14638	10,549	696	29.1	10,624	701	29.1	75	5	0.0
14165_14638	14165	14638	11,154	747	21.6	11,289	734	21.1	135	-14	-0.4
14638_14640	14638	14640	2,166	76	24.2	2,418	68	24.2	252	-8	0.0
14137_14650	14137	14650	5,477	444	36.0	4,062	110	36.0	-1,415	-334	0.0
14142_14651	14142	14651	8,267	265	21.4	8,760	263	21.2	493	-2	-0.2
14148_14653	14148	14653	15,577	841	25.1	15,345	844	25.2	-232	3	0.0
14214_14694	14214	14694	682	10	22.4	1,338	12	22.5	656	2	0.1
14226_14694	14226	14694	4,901	265	23.3	4,922	305	23.3	21	41	0.0
14693_14694	14693	14694	1,120	124	20.4	1,097	120	20.3	-23	-5	-0.1

Road	A node	B node	Without the Proposed Scheme			With the Proposed Scheme			Change in AADT	Change in HDVs	Change in Speed
			AADT	HDVs	Speed (kph) ¹	AADT	HDVs	Speed (kph) ¹			
14138_14695	14138	14695	7,311	709	31.6	7,026	604	31.6	-285	-105	0.0
14691_14695	14691	14695	181	8	20.6	129	8	20.7	-52	0	0.0
14693_14695	14693	14695	814	4	20.8	886	6	20.8	72	2	0.0
14222_14698	14222	14698	6,788	1,561	26.3	8,209	1,568	26.3	1,421	7	0.0
14139_14700	14139	14700	2,735	153	20.0	4,221	160	19.7	1,486	7	-0.3
14223_14700	14223	14700	8,324	2,256	25.5	8,018	2,149	25.5	-306	-107	0.0
14137_14718	14137	14718	5,189	353	15.6	6,938	728	14.4	1,749	376	-1.2
14214_14718	14214	14718	3,052	18	9.7	3,026	61	9.5	-26	42	-0.1
14217_14718	14217	14718	6,396	275	19.2	7,840	470	18.1	1,444	195	-1.1
14637_14732	14637	14732	9,638	617	29.2	9,466	615	29.2	-172	-2	0.0
14164_14733	14164	14733	2,837	389	25.0	2,881	389	25.0	44	0	0.0
14230_14733	14230	14733	4,010	241	19.5	4,066	240	19.5	56	-1	0.0
14636_14733	14636	14733	0	0	20.7	0	0	20.7	0	0	0.0
14695_14758	14695	14758	7,385	709	17.3	7,128	606	17.1	-257	-103	-0.1
14137_14759	14137	14759	16,305	848	30.3	18,825	791	29.3	2,520	-57	-1.1
14758_14760	14758	14760	7,367	692	24.2	7,502	593	24.2	135	-100	0.0
14758_14761	14758	14761	225	19	18.6	1,040	46	19.0	815	27	0.4
14230_14818	14230	14818	2,760	356	24.2	2,784	354	24.2	24	-2	0.0
14128_14819	14128	14819	6,004	72	28.5	6,093	73	28.4	89	1	0.0
14108_16000	14108	16000	7,292	620	5.3	7,575	629	5.2	283	9	0.0

Road	A node	B node	Without the Proposed Scheme			With the Proposed Scheme			Change in AADT	Change in HDVs	Change in Speed
			AADT	HDVs	Speed (kph) ¹	AADT	HDVs	Speed (kph) ¹			
14108_16001	14108	16001	4,028	157	12.4	4,119	161	12.3	91	4	-0.1
16000_16045	16000	16045	7,356	633	26.6	7,223	628	26.6	-133	-4	0.1
14107_16142	14107	16142	8,676	998	22.3	8,758	1,007	22.2	82	9	0.0
14110_16177	14110	16177	35,195	2,780	17.8	34,784	2,783	18.0	-411	2	0.2
16177_16180	16177	16180	8,892	809	24.1	8,885	809	24.1	-7	-1	0.0
16177_16251	16177	16251	25,067	1,805	31.4	24,634	1,798	31.4	-433	-7	0.0
16251_16252	16251	16252	25,740	1,828	29.9	25,311	1,822	30.0	-429	-5	0.0
16374_16376	16374	16376	4,666	154	25.0	4,663	154	25.0	-3	0	0.0
16000_16378	16000	16378	6,095	201	25.0	6,166	210	25.0	71	9	0.0
14109_16387	14109	16387	11,728	1,489	32.0	11,993	1,487	32.0	265	-2	0.0
14147_16791	14147	16791	4,299	193	14.7	4,260	192	14.8	-39	-2	0.1

CFAooz Construction Traffic Data - Test 2

Table 3: Traffic data used in the construction assessment

Road	A node	B node	Without the Proposed Scheme			With the Proposed Scheme			Change in AADT	Change in HDVs	Change in Speed
			AADT	HDVs	Speed (kph) ¹	AADT	HDVs	Speed (kph) ²			
14017_14016	14017	14016	1,482	71	18.0	1,418	71	17.8	-64	0	-0.2
14128_14127	14128	14127	4,112	378	18.9	4,087	384	18.9	-25	6	-0.1
14144_14127	14144	14127	9,173	394	33.2	9,654	502	33.2	481	108	0.0
14144_14142	14144	14142	544	32	9.9	552	38	9.9	8	6	0.0
14146_14141	14146	14141	13,595	965	23.3	13,177	962	23.4	-418	-3	0.2
14147_14128	14147	14128	10,308	268	44.2	10,553	295	43.1	245	27	-1.1
14148_14146	14148	14146	11,176	771	13.1	10,771	743	13.3	-405	-28	0.2
14148_14147	14148	14147	6,231	193	15.9	6,555	203	15.6	324	10	-0.3
14160_14016	14160	14016	7,367	449	23.4	7,822	485	23.1	455	36	-0.3
14160_14159	14160	14159	3,764	275	27.4	3,857	270	27.3	93	-5	0.0
14161_14016	14161	14016	8,378	461	21.2	8,571	463	21.2	193	2	0.0
14161_14140	14161	14140	7,163	688	9.0	7,219	729	8.1	56	41	-0.9
14162_14160	14162	14160	287	277	2.4	316	276	2.4	29	-1	0.0
14163_14161	14163	14161	288	162	15.7	196	160	15.9	-92	-2	0.1
14166_14148	14166	14148	3,141	242	16.8	3,305	258	16.7	164	16	-0.1
14166_14165	14166	14165	4,781	373	13.4	4,741	384	13.4	-40	11	0.0
14168_14141	14168	14141	13,694	1,479	14.8	13,966	1,480	14.5	272	1	-0.2

Road	A node	B node	Without the Proposed Scheme			With the Proposed Scheme			Change in AADT	Change in HDVs	Change in Speed
			AADT	HDVs	Speed (kph) ¹	AADT	HDVs	Speed (kph) ¹			
14168_14165	14168	14165	5,757	472	15.1	5,018	447	15.7	-739	-25	0.6
14199_14168	14199	14168	6,955	793	22.9	6,071	765	23.7	-884	-28	0.7
14222_14138	14222	14138	5,906	791	12.3	5,263	763	12.5	-643	-28	0.1
14222_14142	14222	14142	406	32	5.8	600	37	5.4	194	5	-0.4
14223_14141	14223	14141	6,309	732	23.7	5,377	624	23.9	-932	-108	0.1
14226_14140	14226	14140	12,426	857	27.6	13,350	841	27.1	924	-16	-0.5
14228_14168	14228	14168	12,335	802	16.4	12,762	842	16.3	427	41	-0.1
14229_14165	14229	14165	1,669	139	13.7	2,219	140	13.2	550	1	-0.5
14229_14228	14229	14228	2,532	89	21.9	2,831	91	21.9	299	2	0.0
14230_14229	14230	14229	2,368	144	23.9	2,647	146	23.8	279	1	0.0
14293_14109	14293	14109	37,067	4,411	11.7	37,800	4,460	11.5	733	49	-0.1
14418_14109	14418	14109	38,222	3,516	10.9	38,008	3,535	11.1	-214	18	0.2
14505_14293	14505	14293	11,886	2,116	0.8	11,849	2,097	0.8	-37	-18	0.0
14634_14230	14634	14230	467	33	12.5	466	33	12.5	-1	0	0.0
14636_14635	14636	14635	0	0	21.8	0	0	21.8	0	0	0.0
14637_14164	14637	14164	9,725	710	17.0	9,705	708	17.1	-20	-1	0.1
14638_14164	14638	14164	9,040	705	16.6	8,746	708	16.7	-294	3	0.1
14638_14165	14638	14165	10,721	718	11.0	10,696	706	11.0	-25	-12	0.0
14640_14638	14640	14638	536	25	22.6	562	26	22.6	26	1	0.0
14650_14137	14650	14137	7,993	312	7.5	7,254	319	7.7	-739	7	0.2

Road	A node	B node	Without the Proposed Scheme			With the Proposed Scheme			Change in AADT	Change in HDVs	Change in Speed
			AADT	HDVs	Speed (kph) ¹	AADT	HDVs	Speed (kph) ¹			
14653_14148	14653	14148	17,401	905	3.9	17,227	896	3.9	-174	-9	0.0
14693_14139	14693	14139	15,013	721	9.7	14,737	634	9.4	-276	-87	-0.3
14694_14214	14694	14214	2,078	17	25.0	2,053	16	25.0	-25	0	0.0
14694_14226	14694	14226	3,469	125	7.3	3,928	118	6.7	459	-7	-0.6
14694_14693	14694	14693	1,245	25	12.9	1,275	26	12.9	30	1	0.0
14695_14691	14695	14691	940	1	21.6	196	2	24.2	-744	1	2.6
14695_14693	14695	14693	16	8	13.4	83	7	13.4	67	-1	0.0
14699_14138	14699	14138	11,448	1,511	7.1	11,642	1,490	7.1	194	-21	0.0
14700_14222	14700	14222	11,062	2,400	25.7	11,779	2,403	25.7	717	2	0.0
14718_14137	14718	14137	5,568	278	4.4	6,700	328	3.3	1,132	50	-1.1
14718_14214	14718	14214	2,005	28	25.0	2,629	32	25.0	624	3	0.0
14718_14217	14718	14217	6,695	261	24.4	7,234	246	24.4	539	-15	0.0
14732_14637	14732	14637	9,645	714	29.2	9,628	703	29.2	-17	-11	0.0
14733_14164	14733	14164	1,636	159	6.2	1,655	156	6.2	19	-3	0.0
14733_14230	14733	14230	2,837	389	4.0	2,856	400	4.0	19	11	0.0
14733_14636	14733	14636	2,375	81	24.0	2,399	82	24.0	24	1	0.0
14759_14693	14759	14693	16,006	832	13.3	15,307	735	13.3	-699	-98	0.0
14759_14758	14759	14758	209	3	19.3	906	18	19.3	697	15	0.0
14760_14137	14760	14137	10,360	1,285	6.2	9,413	1,045	6.0	-947	-240	-0.2
14761_14758	14761	14758	0	0	17.7	1,555	316	17.6	1,555	316	-0.1

Road	A node	B node	Without the Proposed Scheme			With the Proposed Scheme			Change in AADT	Change in HDVs	Change in Speed
			AADT	HDVs	Speed (kph) ¹	AADT	HDVs	Speed (kph) ¹			
14762_14760	14762	14760	2,386	489	21.2	5	5	21.4	-2,381	-484	0.2
14818_14230	14818	14230	6,805	340	13.6	7,124	335	12.9	319	-5	-0.8
16000_14108	16000	14108	4,028	157	27.1	4,210	160	27.1	182	3	0.0
16001_14107	16001	14107	8,676	998	26.3	8,828	998	26.3	152	0	0.0
16001_14108	16001	14108	7,291	620	29.1	7,548	619	29.0	257	-1	0.0
16045_16000	16045	16000	6,823	280	12.2	7,059	296	12.1	236	17	-0.1
16142_14110	16142	14110	12,234	1,162	8.8	12,289	1,155	8.8	55	-7	0.0
16177_14505	16177	14505	1,210	904	28.2	1,244	904	28.2	34	1	0.0
16251_16177	16251	16177	1,209	904	5.2	1,244	904	5.1	35	0	0.0
16252_16251	16252	16251	1,209	904	32.0	1,244	904	32.0	35	0	0.0
16376_16374	16376	16374	6,429	167	13.7	6,425	167	13.7	-4	0	0.0
16378_16000	16378	16000	3,535	85	14.1	3,332	100	14.1	-203	15	0.1
16381_16251	16381	16251	434	23	16.6	436	23	16.6	2	0	0.1
16387_16001	16387	16001	11,401	1,174	16.4	11,609	1,173	16.5	208	-2	0.1
16791_14147	16791	14147	5,308	281	19.5	5,349	283	19.4	41	2	0.0
14107_14108	14107	14108	0	0	19.3	3	0	18.9	3	0	-0.4
14109_14110	14109	14110	32,293	2,422	11.1	32,020	2,466	11.3	-273	44	0.2
14138_14139	14138	14139	10,559	1,763	10.0	11,055	1,736	9.9	496	-28	0.0
14141_14142	14141	14142	16,506	479	22.0	17,127	462	22.0	621	-16	-0.1
14127_14143	14127	14143	14,116	847	30.4	14,570	962	30.4	454	115	0.0

Road	A node	B node	Without the Proposed Scheme			With the Proposed Scheme			Change in AADT	Change in HDVs	Change in Speed
			AADT	HDVs	Speed (kph) ¹	AADT	HDVs	Speed (kph) ¹			
14142_14144	14142	14144	5,846	216	21.9	6,004	216	21.6	158	0	-0.3
14141_14146	14141	14146	10,597	784	17.6	9,742	721	18.3	-855	-63	0.6
14143_14146	14143	14146	11,170	782	9.2	11,780	895	9.3	610	113	0.1
14143_14147	14143	14147	2,652	56	13.4	2,504	63	13.5	-148	7	0.1
14146_14148	14146	14148	13,771	785	15.8	13,631	804	16.4	-140	19	0.6
14016_14160	14016	14160	8,445	524	12.8	8,639	527	12.7	194	3	0.0
14159_14160	14159	14160	5,824	256	26.6	6,181	297	26.6	357	40	-0.1
14016_14161	14016	14161	9,224	452	18.9	9,603	490	18.8	379	38	-0.1
14140_14161	14140	14161	8,470	652	17.1	8,685	651	17.0	215	-1	-0.1
14160_14162	14160	14162	3,457	391	15.0	3,533	392	15.0	76	2	0.0
14161_14163	14161	14163	1,978	174	16.9	2,147	174	16.7	169	0	-0.2
14146_14166	14146	14166	5,181	508	25.8	5,188	514	25.8	7	6	-0.1
14165_14166	14165	14166	2,763	130	9.5	2,880	144	9.3	117	14	-0.2
14165_14168	14165	14168	7,766	606	7.6	7,619	594	7.7	-147	-11	0.0
14139_14199	14139	14199	6,955	793	15.1	6,071	765	15.8	-884	-28	0.7
14168_14199	14168	14199	7,325	212	12.6	7,309	205	12.7	-16	-8	0.1
14142_14222	14142	14222	817	18	20.2	819	18	20.1	2	0	-0.2
14139_14223	14139	14223	6,309	732	23.3	5,377	624	23.6	-932	-108	0.3
14141_14223	14141	14223	8,194	1,860	23.5	7,415	1,832	23.8	-779	-29	0.3
14139_14226	14139	14226	7,620	800	18.7	7,974	781	18.7	354	-19	0.0

Road	A node	B node	Without the Proposed Scheme			With the Proposed Scheme			Change in AADT	Change in HDVs	Change in Speed
			AADT	HDVs	Speed (kph) ¹	AADT	HDVs	Speed (kph) ¹			
14199_14226	14199	14226	5,027	156	9.9	5,010	155	9.9	-17	-1	0.0
14140_14228	14140	14228	11,022	882	32.9	11,721	903	32.9	699	21	0.0
14165_14229	14165	14229	1,472	68	20.5	1,469	71	20.5	-3	3	-0.1
14228_14229	14228	14229	2,114	182	23.2	2,639	169	23.0	525	-13	-0.3
14229_14230	14229	14230	805	103	8.5	760	92	8.5	-45	-11	0.0
14109_14418	14109	14418	29,859	3,016	30.9	30,438	3,074	30.9	579	58	0.0
14110_14505	14110	14505	10,712	1,178	23.1	10,640	1,170	23.1	-72	-8	0.0
14230_14634	14230	14634	1,497	112	23.2	1,473	113	23.1	-24	1	-0.1
14635_14636	14635	14636	0	0	22.2	0	0	22.2	0	0	0.0
14164_14637	14164	14637	6,890	565	29.6	6,600	561	29.6	-290	-4	0.0
14636_14637	14636	14637	2,375	81	12.1	2,400	82	12.2	25	1	0.1
14164_14638	14164	14638	10,549	696	29.1	10,532	695	29.1	-17	-1	0.0
14165_14638	14165	14638	11,154	747	21.6	11,044	729	21.3	-110	-18	-0.2
14638_14640	14638	14640	2,166	76	24.2	2,337	49	24.2	171	-27	0.0
14137_14650	14137	14650	5,477	444	36.0	4,157	420	36.0	-1,320	-24	0.0
14142_14651	14142	14651	8,267	265	21.4	8,759	254	21.2	492	-11	-0.2
14148_14653	14148	14653	15,577	841	25.1	15,409	863	25.2	-168	22	0.0
14214_14694	14214	14694	682	10	22.4	1,294	12	22.5	612	1	0.1
14226_14694	14226	14694	4,901	265	23.3	4,921	261	23.3	20	-4	0.0
14693_14694	14693	14694	1,120	124	20.4	954	114	20.4	-166	-11	-0.1

Road	A node	B node	Without the Proposed Scheme			With the Proposed Scheme			Change in AADT	Change in HDVs	Change in Speed
			AADT	HDVs	Speed (kph) ¹	AADT	HDVs	Speed (kph) ¹			
14138_14695	14138	14695	7,311	709	31.6	6,483	687	31.6	-828	-22	0.0
14691_14695	14691	14695	181	8	20.6	370	8	20.6	189	0	-0.1
14693_14695	14693	14695	814	4	20.8	798	6	20.8	-16	2	0.0
14222_14698	14222	14698	6,788	1,561	26.3	8,190	1,581	26.3	1,402	19	0.0
14139_14700	14139	14700	2,735	153	20.0	4,200	181	19.8	1,465	27	-0.3
14223_14700	14223	14700	8,324	2,256	25.5	7,573	2,226	25.5	-751	-29	0.0
14137_14718	14137	14718	5,189	353	15.6	5,735	338	15.2	546	-14	-0.4
14214_14718	14214	14718	3,052	18	9.7	3,043	18	9.7	-9	0	0.0
14217_14718	14217	14718	6,396	275	19.2	7,976	327	18.2	1,580	52	-1.1
14637_14732	14637	14732	9,638	617	29.2	9,379	610	29.2	-259	-7	0.0
14164_14733	14164	14733	2,837	389	25.0	2,856	400	25.0	19	11	0.0
14230_14733	14230	14733	4,010	241	19.5	4,055	235	19.5	45	-5	0.0
14636_14733	14636	14733	0	0	20.7	0	0	20.7	0	0	0.0
14695_14758	14695	14758	7,385	709	17.3	7,487	689	16.8	102	-20	-0.5
14137_14759	14137	14759	16,305	848	30.3	16,605	747	30.2	300	-101	-0.1
14758_14760	14758	14760	7,367	692	24.2	9,408	1,035	24.2	2,041	342	0.0
14758_14761	14758	14761	225	19	18.6	712	21	19.5	487	2	0.9
14230_14818	14230	14818	2,760	356	24.2	2,750	355	24.2	-10	-1	0.0
14128_14819	14128	14819	6,004	72	28.5	6,280	88	28.4	276	16	0.0
14108_16000	14108	16000	7,292	620	5.3	7,553	619	5.2	261	0	0.0

Road	A node	B node	Without the Proposed Scheme			With the Proposed Scheme			Change in AADT	Change in HDVs	Change in Speed
			AADT	HDVs	Speed (kph) ¹	AADT	HDVs	Speed (kph) ¹			
14108_16001	14108	16001	4,028	157	12.4	4,210	160	12.2	182	3	-0.1
16000_16045	16000	16045	7,356	633	26.6	7,293	642	26.6	-63	9	0.0
14107_16142	14107	16142	8,676	998	22.3	8,823	997	22.2	147	-1	0.0
14110_16177	14110	16177	35,195	2,780	17.8	35,046	2,804	17.4	-149	23	-0.4
16177_16180	16177	16180	8,892	809	24.1	9,108	811	24.0	216	1	-0.1
16177_16251	16177	16251	25,067	1,805	31.4	24,649	1,824	31.4	-418	19	0.0
16251_16252	16251	16252	25,740	1,828	29.9	25,325	1,849	30.0	-415	21	0.0
16374_16376	16374	16376	4,666	154	25.0	4,660	154	25.0	-6	0	0.0
16000_16378	16000	16378	6,095	201	25.0	6,263	213	25.0	168	12	0.0
14109_16387	14109	16387	11,728	1,489	32.0	11,934	1,480	32.0	206	-10	0.0
14147_16791	14147	16791	4,299	193	14.7	4,249	187	14.7	-50	-6	0.0

CFAooz Construction Traffic Data - Test 3

Table 4: Traffic data used in the construction assessment

Road	A node	B node	Without the Proposed Scheme			With the Proposed Scheme			Change in AADT	Change in HDVs	Change in Speed
			AADT	HDVs	Speed (kph) ¹	AADT	HDVs	Speed (kph) ²			
14017_14016	14017	14016	1,482	71	18.0	2,451	47	19.2	969	-24	1.2
14128_14127	14128	14127	4,112	378	18.9	4,030	387	18.9	-82	9	0.0
14144_14127	14144	14127	9,173	394	33.2	9,780	367	33.2	607	-27	0.0
14144_14142	14144	14142	544	32	9.9	548	20	10.0	4	-12	0.0
14146_14141	14146	14141	13,595	965	23.3	13,746	966	22.7	151	1	-0.5
14147_14128	14147	14128	10,308	268	44.2	10,181	311	43.1	-127	43	-1.1
14148_14146	14148	14146	11,176	771	13.1	11,363	773	13.0	187	2	-0.1
14148_14147	14148	14147	6,231	193	15.9	5,977	234	15.7	-254	41	-0.2
14160_14016	14160	14016	7,367	449	23.4	1,052	2,756	25.6	-6,315	2,307	2.2
14160_14159	14160	14159	3,764	275	27.4	0	0	28.1	-3,764	-275	0.8
14161_14016	14161	14016	8,378	461	21.2	4,528	769	21.8	-3,850	308	0.6
14161_14140	14161	14140	7,163	688	9.0	5,320	870	16.3	-1,843	182	7.3
14162_14160	14162	14160	287	277	2.4	730	204	2.4	443	-73	0.0
14163_14161	14163	14161	288	162	15.7	1,195	24	14.1	907	-138	-1.6
14166_14148	14166	14148	3,141	242	16.8	3,013	287	16.9	-128	45	0.1
14166_14165	14166	14165	4,781	373	13.4	4,821	391	13.3	40	18	-0.1
14168_14141	14168	14141	13,694	1,479	14.8	11,659	1,773	15.7	-2,035	294	0.9

Road	A node	B node	Without the Proposed Scheme			With the Proposed Scheme			Change in AADT	Change in HDVs	Change in Speed
			AADT	HDVs	Speed (kph) ¹	AADT	HDVs	Speed (kph) ¹			
14168_14165	14168	14165	5,757	472	15.1	5,961	418	14.9	204	-54	-0.2
14199_14168	14199	14168	6,955	793	22.9	7,182	703	22.8	227	-90	-0.2
14222_14138	14222	14138	5,906	791	12.3	6,241	722	12.2	335	-69	-0.1
14222_14142	14222	14142	406	32	5.8	366	63	5.7	-40	31	-0.1
14223_14141	14223	14141	6,309	732	23.7	7,460	645	23.6	1,151	-87	-0.2
14226_14140	14226	14140	12,426	857	27.6	10,007	1,100	26.5	-2,419	243	-1.1
14228_14168	14228	14168	12,335	802	16.4	9,971	1,035	16.8	-2,364	233	0.4
14229_14165	14229	14165	1,669	139	13.7	1,595	160	13.8	-74	21	0.1
14229_14228	14229	14228	2,532	89	21.9	1,337	188	22.1	-1,195	100	0.1
14230_14229	14230	14229	2,368	144	23.9	1,213	316	23.9	-1,155	171	0.0
14293_14109	14293	14109	37,067	4,411	11.7	38,668	4,255	11.3	1,601	-156	-0.4
14418_14109	14418	14109	38,222	3,516	10.9	38,236	3,523	10.9	14	7	0.0
14505_14293	14505	14293	11,886	2,116	0.8	11,875	2,118	0.8	-11	2	0.0
14634_14230	14634	14230	467	33	12.5	430	33	12.5	-37	0	0.0
14636_14635	14636	14635	0	0	21.8	0	0	21.8	0	0	0.0
14637_14164	14637	14164	9,725	710	17.0	9,318	739	17.2	-407	30	0.2
14638_14164	14638	14164	9,040	705	16.6	9,211	687	16.6	171	-18	0.0
14638_14165	14638	14165	10,721	718	11.0	10,083	756	11.2	-638	37	0.2
14640_14638	14640	14638	536	25	22.6	455	32	22.5	-81	7	0.0
14650_14137	14650	14137	7,993	312	7.5	8,528	380	7.4	535	68	-0.1

Road	A node	B node	Without the Proposed Scheme			With the Proposed Scheme			Change in AADT	Change in HDVs	Change in Speed
			AADT	HDVs	Speed (kph) [±]	AADT	HDVs	Speed (kph) [±]			
14653_14148	14653	14148	17,401	905	3.9	17,356	953	4.0	-45	49	0.1
14693_14139	14693	14139	15,013	721	9.7	16,650	732	8.9	1,637	12	-0.7
14694_14214	14694	14214	2,078	17	25.0	2,241	40	25.0	163	24	0.0
14694_14226	14694	14226	3,469	125	7.3	4,206	135	6.4	737	10	-0.9
14694_14693	14694	14693	1,245	25	12.9	1,300	17	12.9	55	-8	0.0
14695_14691	14695	14691	940	1	21.6	1,132	1	21.9	192	0	0.3
14695_14693	14695	14693	16	8	13.4	4	0	13.1	-12	-8	-0.3
14699_14138	14699	14138	11,448	1,511	7.1	11,972	1,546	6.5	524	35	-0.6
14700_14222	14700	14222	11,062	2,400	25.7	11,419	2,596	25.7	357	195	0.0
14718_14137	14718	14137	5,568	278	4.4	6,359	312	3.8	791	33	-0.6
14718_14214	14718	14214	2,005	28	25.0	2,851	38	25.0	846	10	0.0
14718_14217	14718	14217	6,695	261	24.4	7,839	294	24.4	1,144	33	0.0
14732_14637	14732	14637	9,645	714	29.2	9,285	743	29.3	-360	29	0.0
14733_14164	14733	14164	1,636	159	6.2	1,631	151	6.2	-5	-8	0.0
14733_14230	14733	14230	2,837	389	4.0	2,927	406	4.0	90	18	0.0
14733_14636	14733	14636	2,375	81	24.0	2,239	90	24.0	-136	9	0.0
14759_14693	14759	14693	16,006	832	13.3	17,849	842	12.8	1,843	10	-0.4
14759_14758	14759	14758	209	3	19.3	145	10	19.3	-64	7	0.0
14760_14137	14760	14137	10,360	1,285	6.2	11,727	1,058	5.1	1,367	-226	-1.1
14761_14758	14761	14758	0	0	17.7	0	0	17.6	0	0	-0.1

Road	A node	B node	Without the Proposed Scheme			With the Proposed Scheme			Change in AADT	Change in HDVs	Change in Speed
			AADT	HDVs	Speed (kph) ¹	AADT	HDVs	Speed (kph) ¹			
14762_14760	14762	14760	2,386	489	21.2	1,545	540	21.0	-841	51	-0.2
14818_14230	14818	14230	6,805	340	13.6	5,592	423	15.6	-1,213	83	2.0
16000_14108	16000	14108	4,028	157	27.1	4,351	185	27.1	323	28	-0.1
16001_14107	16001	14107	8,676	998	26.3	9,049	1,007	26.3	373	9	-0.1
16001_14108	16001	14108	7,291	620	29.1	7,742	659	29.0	451	39	-0.1
16045_16000	16045	16000	6,823	280	12.2	7,161	317	12.2	338	37	0.0
16142_14110	16142	14110	12,234	1,162	8.8	12,354	1,176	8.7	120	14	0.0
16177_14505	16177	14505	1,210	904	28.2	1,224	892	28.2	14	-12	0.0
16251_16177	16251	16177	1,209	904	5.2	1,224	892	5.1	15	-12	0.0
16252_16251	16252	16251	1,209	904	32.0	1,224	892	32.0	15	-12	0.0
16376_16374	16376	16374	6,429	167	13.7	6,415	167	13.8	-14	0	0.0
16378_16000	16378	16000	3,535	85	14.1	3,716	78	14.0	181	-7	-0.1
16381_16251	16381	16251	434	23	16.6	443	23	16.6	9	0	0.0
16387_16001	16387	16001	11,401	1,174	16.4	11,880	1,213	16.5	479	39	0.1
16791_14147	16791	14147	5,308	281	19.5	5,248	283	19.5	-60	2	0.1
14107_14108	14107	14108	0	0	19.3	0	0	19.2	0	0	-0.1
14109_14110	14109	14110	32,293	2,422	11.1	32,118	2,385	11.4	-175	-37	0.3
14138_14139	14138	14139	10,559	1,763	10.0	7,859	2,503	10.2	-2,700	739	0.2
14141_14142	14141	14142	16,506	479	22.0	16,227	512	22.1	-279	34	0.1
14127_14143	14127	14143	14,116	847	30.4	14,638	818	30.4	522	-29	0.0

Road	A node	B node	Without the Proposed Scheme			With the Proposed Scheme			Change in AADT	Change in HDVs	Change in Speed
			AADT	HDVs	Speed (kph) ¹	AADT	HDVs	Speed (kph) ¹			
14142_14144	14142	14144	5,846	216	21.9	5,648	300	21.7	-198	83	-0.1
14141_14146	14141	14146	10,597	784	17.6	9,510	913	16.5	-1,087	129	-1.2
14143_14146	14143	14146	11,170	782	9.2	11,593	754	9.4	423	-28	0.2
14143_14147	14143	14147	2,652	56	13.4	2,711	57	13.4	59	2	0.0
14146_14148	14146	14148	13,771	785	15.8	13,456	827	16.1	-315	43	0.3
14016_14160	14016	14160	8,445	524	12.8	4,596	893	16.3	-3,849	369	3.5
14159_14160	14159	14160	5,824	256	26.6	0	0	27.3	-5,824	-256	0.6
14016_14161	14016	14161	9,224	452	18.9	4,112	906	20.3	-5,112	454	1.4
14140_14161	14140	14161	8,470	652	17.1	4,889	1,136	18.2	-3,581	484	1.1
14160_14162	14160	14162	3,457	391	15.0	4,237	518	14.5	780	128	-0.5
14161_14163	14161	14163	1,978	174	16.9	466	838	19.4	-1,512	664	2.5
14146_14166	14146	14166	5,181	508	25.8	5,031	532	26.0	-150	24	0.1
14165_14166	14165	14166	2,763	130	9.5	2,818	160	9.4	55	30	-0.1
14165_14168	14165	14168	7,766	606	7.6	7,085	631	7.7	-681	26	0.1
14139_14199	14139	14199	6,955	793	15.1	7,182	703	14.9	227	-90	-0.2
14168_14199	14168	14199	7,325	212	12.6	6,228	212	13.9	-1,097	0	1.4
14142_14222	14142	14222	817	18	20.2	819	18	20.2	2	0	0.0
14139_14223	14139	14223	6,309	732	23.3	7,460	645	23.0	1,151	-87	-0.3
14141_14223	14141	14223	8,194	1,860	23.5	8,641	1,705	23.3	447	-155	-0.2
14139_14226	14139	14226	7,620	800	18.7	5,401	1,187	19.1	-2,219	387	0.4

Road	A node	B node	Without the Proposed Scheme			With the Proposed Scheme			Change in AADT	Change in HDVs	Change in Speed
			AADT	HDVs	Speed (kph) ¹	AADT	HDVs	Speed (kph) ¹			
14199_14226	14199	14226	5,027	156	9.9	4,280	161	9.2	-747	5	-0.6
14140_14228	14140	14228	11,022	882	32.9	10,069	955	32.9	-953	73	0.0
14165_14229	14165	14229	1,472	68	20.5	1,473	73	20.6	1	5	0.1
14228_14229	14228	14229	2,114	182	23.2	2,012	162	23.3	-102	-19	0.1
14229_14230	14229	14230	805	103	8.5	869	64	8.4	64	-39	-0.1
14109_14418	14109	14418	29,859	3,016	30.9	31,128	2,905	30.8	1,269	-110	-0.1
14110_14505	14110	14505	10,712	1,178	23.1	10,684	1,194	23.1	-28	16	0.0
14230_14634	14230	14634	1,497	112	23.2	1,591	99	23.2	94	-13	0.0
14635_14636	14635	14636	0	0	22.2	0	0	22.2	0	0	0.0
14164_14637	14164	14637	6,890	565	29.6	6,957	538	29.6	67	-27	0.0
14636_14637	14636	14637	2,375	81	12.1	2,239	90	12.2	-136	9	0.1
14164_14638	14164	14638	10,549	696	29.1	10,152	722	29.2	-397	26	0.1
14165_14638	14165	14638	11,154	747	21.6	11,328	745	21.8	174	-2	0.2
14638_14640	14638	14640	2,166	76	24.2	2,285	75	24.2	119	-1	0.0
14137_14650	14137	14650	5,477	444	36.0	6,016	276	36.0	539	-167	0.0
14142_14651	14142	14651	8,267	265	21.4	8,259	245	21.5	-8	-19	0.1
14148_14653	14148	14653	15,577	841	25.1	15,120	890	25.2	-457	49	0.0
14214_14694	14214	14694	682	10	22.4	1,535	19	22.5	853	9	0.1
14226_14694	14226	14694	4,901	265	23.3	5,077	290	23.3	176	26	0.0
14693_14694	14693	14694	1,120	124	20.4	1,221	104	20.2	101	-20	-0.2

Road	A node	B node	Without the Proposed Scheme			With the Proposed Scheme			Change in AADT	Change in HDVs	Change in Speed
			AADT	HDVs	Speed (kph) ¹	AADT	HDVs	Speed (kph) ¹			
14138_14695	14138	14695	7,311	709	31.6	10,081	527	31.5	2,770	-182	-0.1
14691_14695	14691	14695	181	8	20.6	5	0	20.2	-176	-8	-0.4
14693_14695	14693	14695	814	4	20.8	890	6	20.6	76	2	-0.3
14222_14698	14222	14698	6,788	1,561	26.3	6,750	1,880	26.3	-38	319	0.0
14139_14700	14139	14700	2,735	153	20.0	2,684	253	19.9	-51	100	-0.1
14223_14700	14223	14700	8,324	2,256	25.5	8,731	2,077	25.5	407	-179	0.0
14137_14718	14137	14718	5,189	353	15.6	5,994	389	15.1	805	36	-0.5
14214_14718	14214	14718	3,052	18	9.7	3,395	45	7.6	343	27	-2.1
14217_14718	14217	14718	6,396	275	19.2	8,041	306	18.2	1,645	31	-1.0
14637_14732	14637	14732	9,638	617	29.2	9,584	606	29.2	-54	-11	0.0
14164_14733	14164	14733	2,837	389	25.0	2,927	406	25.0	90	18	0.0
14230_14733	14230	14733	4,010	241	19.5	3,870	240	19.5	-140	-1	0.0
14636_14733	14636	14733	0	0	20.7	0	0	20.7	0	0	0.0
14695_14758	14695	14758	7,385	709	17.3	9,844	549	16.2	2,459	-160	-1.1
14137_14759	14137	14759	16,305	848	30.3	18,057	922	29.9	1,752	75	-0.4
14758_14760	14758	14760	7,367	692	24.2	9,822	563	24.2	2,455	-130	0.0
14758_14761	14758	14761	225	19	18.6	165	132	19.1	-60	113	0.5
14230_14818	14230	14818	2,760	356	24.2	2,854	342	24.2	94	-14	0.0
14128_14819	14128	14819	6,004	72	28.5	5,975	97	28.4	-29	25	0.0
14108_16000	14108	16000	7,292	620	5.3	7,742	659	5.2	450	39	-0.1

Road	A node	B node	Without the Proposed Scheme			With the Proposed Scheme			Change in AADT	Change in HDVs	Change in Speed
			AADT	HDVs	Speed (kph) ²	AADT	HDVs	Speed (kph) ²			
14108_16001	14108	16001	4,028	157	12.4	4,351	185	12.0	323	28	-0.3
16000_16045	16000	16045	7,356	633	26.6	7,873	628	26.4	517	-4	-0.1
14107_16142	14107	16142	8,676	998	22.3	9,049	1,007	22.1	373	9	-0.2
14110_16177	14110	16177	35,195	2,780	17.8	35,168	2,748	17.9	-27	-32	0.1
16177_16180	16177	16180	8,892	809	24.1	8,915	809	24.1	23	-1	0.0
16177_16251	16177	16251	25,067	1,805	31.4	25,005	1,749	31.4	-62	-56	0.0
16251_16252	16251	16252	25,740	1,828	29.9	25,693	1,797	29.9	-47	-30	0.0
16374_16376	16374	16376	4,666	154	25.0	4,668	154	25.0	2	0	0.0
16000_16378	16000	16378	6,095	201	25.0	6,240	210	25.0	145	9	0.0
14109_16387	14109	16387	11,728	1,489	32.0	12,208	1,511	32.0	480	22	0.0
14147_16791	14147	16791	4,299	193	14.7	4,166	196	14.7	-133	3	0.0

CFAooz Operational Traffic Data

Table 5: Traffic data used in the operational assessment

Road	A node	B node	Without the Proposed Scheme			With the Proposed Scheme			Change in AADT	Change in HDVs	Change in Speed
			AADT	HDVs	Speed (kph) ¹	AADT	HDVs	Speed (kph) ²			
14718_14137	14718	14137	5,277	248	4.6	5,263	289	4.6	-14	41	0.0
14718_14214	14718	14214	2,036	29	25.0	2,039	27	25.0	3	-2	0.0
14759_14693	14759	14693	15,429	818	13.4	16,079	836	13.3	650	18	-0.1
14759_14758	14759	14758	194	1	19.3	90	0	19.3	-104	-1	0.0
14760_14137	14760	14137	10,371	1,255	6.2	10,498	1,228	6.2	127	-27	0.0
16000_14108	16000	14108	3,900	156	27.1	4,253	174	27.1	353	18	0.0
16001_14108	16001	14108	6,959	605	29.1	7,699	624	29.0	740	18	-0.1
16045_16000	16045	16000	6,694	288	12.1	7,095	305	12.2	401	17	0.0
16177_14505	16177	14505	1,258	906	28.2	1,309	907	28.2	51	1	0.0
16251_16177	16251	16177	1,258	906	5.1	1,309	907	5.1	51	1	0.0
16252_16251	16252	16251	1,258	906	32.0	1,309	907	32.0	51	1	0.0
16376_16374	16376	16374	6,297	157	13.8	6,299	157	13.8	2	0	0.0
16381_16251	16381	16251	412	23	16.6	412	23	16.6	0	0	0.0
16387_16001	16387	16001	10,954	1,161	16.4	11,747	1,175	16.6	793	14	0.2
14109_14110	14109	14110	32,543	2,441	10.8	32,304	2,423	11.1	-239	-18	0.3
14110_14505	14110	14505	10,675	1,153	23.1	10,494	1,165	23.1	-181	12	0.0
14137_14718	14137	14718	5,267	348	15.6	5,354	343	15.5	87	-5	0.0

Road	A node	B node	Without the Proposed Scheme			With the Proposed Scheme			Change in AADT	Change in HDVs	Change in Speed
			AADT	HDVs	Speed (kph) ²	AADT	HDVs	Speed (kph) ²			
14214_14718	14214	14718	3,064	18	9.7	3,062	18	9.7	-2	-0	0.0
14695_14758	14695	14758	7,841	706	17.2	7,911	704	17.0	70	-2	-0.2
14137_14759	14137	14759	15,708	817	30.5	16,210	827	30.3	502	10	-0.1
14758_14760	14758	14760	7,823	688	24.2	7,891	687	24.2	68	-2	0.0
14108_16000	14108	16000	6,958	605	5.3	7,699	624	5.2	741	18	-0.2
14108_16001	14108	16001	3,901	156	12.4	4,253	174	12.2	352	18	-0.2
16000_16045	16000	16045	7,236	622	26.6	7,607	647	26.5	371	24	-0.1
14107_16142	14107	16142	8,432	995	22.3	8,826	1,015	22.2	394	20	-0.2
14110_16177	14110	16177	35,340	2,792	17.8	35,415	2,798	17.5	75	6	-0.4
16177_16180	16177	16180	8,896	810	24.1	9,044	814	24.1	148	4	0.0
16177_16251	16177	16251	25,242	1,792	31.4	25,115	1,808	31.4	-127	16	0.0
16251_16252	16251	16252	25,880	1,837	29.9	25,754	1,829	29.9	-126	-9	0.0
16374_16376	16374	16376	4,561	146	25.0	4,564	146	25.0	3	0	0.0
14109_16387	14109	16387	11,280	1,466	32.0	12,074	1,485	32.0	794	19	0.0

CFA003 2012 Baseline Traffic Data

Table 1: Traffic data used in the baseline assessment

Road	A node	B node	Without the Proposed Scheme		
			AADT	HDVs	Speed (kph) ¹
12003_12002	12003	12002	3,107	37	20.2
12048_12003	12048	12003	5,304	111	21.4
12387_12004	12387	12004	1,270	216	24.0
12389_12004	12389	12004	4,770	258	23.2
12395_12002	12395	12002	12,252	1679	29.7
12395_12003	12395	12003	3,904	23	27.4
12395_12389	12395	12389	6,217	1125	14.9
13264_13263	13264	13263	2,435	24	14.8
13280_12389	13280	12389	408	57	13.7
13282_12002	13282	12002	13,615	1525	13.2
13282_13281	13282	13281	1,104	24	23.5
13339_13282	13339	13282	12,130	1383	33.0
13472_13281	13472	13281	4,196	76	24.2
13514_13513	13514	13513	2,200	68	12.9
14094_14091	14094	14091	2,027	36	23.0
14095_14094	14095	14094	2,952	215	23.0

¹ Where speeds are less than 5 kph, a speed of 5 kph is used in the Defra Emissions Factor Toolkit (EFT) v6.o.2 because this is the lowest speed that the EFT can produce output for.

Road	A node	B node	Without the Proposed Scheme		
			AADT	HDVs	Speed (kph) ¹
14098_14096	14098	14096	-	0	21.5
14105_13281	14105	13281	180	1	23.2
14119_13514	14119	13514	2,200	68	25.0
14119_14088	14119	14088	1,007	44	22.7
14119_14105	14119	14105	2,451	47	27.9
14156_14149	14156	14149	6,321	335	24.7
14156_14155	14156	14155	10,900	556	25.7
14158_14157	14158	14157	32,717	2617	6.8
14160_14016	14160	14016	8,864	470	22.8
14161_14016	14161	14016	9,449	435	21.1
14161_14140	14161	14140	7,181	682	8.8
14162_14017	14162	14017	2,401	120	23.5
14163_14017	14163	14017	1,557	167	24.1
14167_14156	14167	14156	3,165	206	22.3
14169_14095	14169	14095	27,366	1943	14.3
14170_14159	14170	14159	4,100	242	17.0
14179_14159	14179	14159	9,887	692	20.9
14182_14163	14182	14163	3,824	275	24.8
14182_14181	14182	14181	10,685	716	28.6
14188_14175	14188	14175	21,611	1599	19.7

Road	A node	B node	Without the Proposed Scheme		
			AADT	HDVs	Speed (kph) ¹
14188_14187	14188	14187	23,286	1746	12.0
14198_14158	14198	14158	11,841	699	9.4
14198_14179	14198	14179	8,781	667	30.7
14200_14187	14200	14187	19,733	1579	16.8
14205_14095	14205	14095	25,345	2028	7.3
14205_14149	14205	14149	3,964	36	21.2
14206_14175	14206	14175	1,019	51	4.4
14206_14176	14206	14176	1,731	36	11.5
14207_14187	14207	14187	1,586	10	8.8
14207_14206	14207	14206	950	1	22.4
14210_14182	14210	14182	8,590	421	18.8
14213_14179	14213	14179	1,167	12	19.3
14216_14213	14216	14213	2,583	70	19.4
14224_14159	14224	14159	5,684	324	11.7
14224_14216	14224	14216	2,510	83	24.2
14225_14213	14225	14213	1,587	59	14.5
14231_14158	14231	14158	3,084	86	17.0
14231_14216	14231	14216	3,760	132	24.5
14232_14215	14232	14215	4,449	267	41.0
14232_14217	14232	14217	8,926	446	21.1

Road	A node	B node	Without the Proposed Scheme		
			AADT	HDVs	Speed (kph) ¹
14233_14155	14233	14155	18,781	1859	21.1
14233_14205	14233	14205	25,345	2028	38.0
14242_14178	14242	14178	7,458	522	30.7
14244_14242	14244	14242	928	22	21.6
14245_13339	14245	13339	9,679	1403	32.0
14245_14105	14245	14105	1,168	12	29.6
14245_14157	14245	14157	16,831	1767	23.2
14247_14170	14247	14170	8,163	408	15.2
14250_14232	14250	14232	5,958	346	17.8
14257_14149	14257	14149	7,546	332	30.1
14257_14256	14257	14256	1,545	90	24.0
14265_14261	14265	14261	-	0	18.1
14265_14264	14265	14264	-	0	8.8
14268_14264	14268	14264	5,682	148	7.6
14269_14268	14269	14268	5,682	148	28.5
14270_14269	14270	14269	-	0	20.4
14271_14200	14271	14200	769	198	11.0
14272_14271	14272	14271	3,498	227	28.9
14273_14162	14273	14162	7,643	245	13.0
14273_14170	14273	14170	8,324	433	3.2

Road	A node	B node	Without the Proposed Scheme		
			AADT	HDVs	Speed (kph) ¹
14273_14181	14273	14181	9	0	23.7
14274_14269	14274	14269	5,682	148	30.3
14274_14270	14274	14270	-	0	24.3
14279_14186	14279	14186	6,558	151	16.6
14279_14277	14279	14277	9,247	148	28.4
14400_14268	14400	14268	1,283	0	20.2
14401_14270	14401	14270	300	0	20.4
14401_14400	14401	14400	25,734	1904	21.8
14402_14277	14402	14277	2,504	145	21.8
14402_14401	14402	14401	25,734	1904	21.8
14403_14200	14403	14200	19,783	1939	16.0
14403_14279	14403	14279	1,011	0	21.5
14403_14402	14403	14402	21,019	1892	22.6
14404_14187	14404	14187	2,865	49	2.4
14404_14271	14404	14271	3,003	90	23.7
14406_14175	14406	14175	1,591	43	12.2
14407_14404	14407	14404	249	39	22.0
14535_14523	14535	14523	1,529	47	24.0
14537_14523	14537	14523	-	0	23.1
14558_14200	14558	14200	1,415	4	10.5

Road	A node	B node	Without the Proposed Scheme		
			AADT	HDVs	Speed (kph) ¹
14558_14535	14558	14535	-	0	23.1
14558_14537	14558	14537	395	36	24.2
14587_14096	14587	14096	129	129	23.2
14587_14169	14587	14169	2,572	231	4.3
14588_14119	14588	14119	2,509	93	18.5
14589_14154	14589	14154	4,790	283	26.4
14589_14157	14589	14157	4,161	341	15.1
14589_14588	14589	14588	1,751	77	21.9
14603_14257	14603	14257	5,151	201	31.2
14611_14215	14611	14215	6,918	318	37.3
14611_14224	14611	14224	5,248	268	36.1
14614_14236	14614	14236	6,411	218	8.7
14614_14250	14614	14250	11,811	531	15.3
14627_14250	14627	14250	12,308	406	25.3
14650_14136	14650	14136	7,229	376	3.5
14650_14137	14650	14137	10,151	305	6.3
14718_14137	14718	14137	4,451	240	4.3
14727_14169	14727	14169	24,031	1586	22.5
14727_14175	14727	14175	21,276	1638	21.1
14738_12390	14738	12390	1,939	103	25.0

Road	A node	B node	Without the Proposed Scheme		
			AADT	HDVs	Speed (kph) ¹
14738_13339	14738	13339	4,516	86	19.7
14747_14231	14747	14231	6,137	215	5.3
14747_14613	14747	14613	8,701	183	29.3
14747_14738	14747	14738	6,628	199	21.1
14760_14137	14760	14137	11,165	1384	6.7
14774_14158	14774	14158	899	92	20.7
14774_14738	14774	14738	-	0	23.6
14803_14154	14803	14154	1,509	177	22.3
14803_14233	14803	14233	3,730	48	17.6
14807_14803	14807	14803	3,648	44	14.1
14813_14261	14813	14261	28,216	2088	35.1
14813_14264	14813	14264	33	0	4.7
14813_14400	14813	14400	24,731	2102	21.9
14813_14535	14813	14535	1,533	51	23.1
14818_14163	14818	14163	2,269	315	10.8
14818_14230	14818	14230	6,665	360	13.9
14818_14817	14818	14817	1,075	40	25.0
70001_14261	70001	14261	26,125	2168	36.0
70030_70019	70030	70019	25,428	1449	39.4
70107_70030	70107	70030	15	0	17.0

Road	A node	B node	Without the Proposed Scheme		
			AADT	HDVs	Speed (kph) ¹
70241_70001	70241	70001	5,070	867	2.9
70250_70023	70250	70023	4,343	760	21.3
70250_70241	70250	70241	5,086	870	34.5
70251_70250	70251	70250	3,187	70	20.2
70253_70030	70253	70030	25,401	1702	30.6
70253_70121	70253	70121	926	262	25.0
70253_70213	70253	70213	45,950	1792	57.6
70312_14523	70312	14523	116	7	24.4
70319_66242	70319	66242	55,363	3156	46.7
70325_70092	70325	70092	38,348	2147	109.5
70339_70310	70339	70310	39,285	1611	58.2
70344_70339	70344	70339	23,357	304	41.0
70347_70328	70347	70328	6,253	375	62.8
70437_70436	70437	70436	-	0	23.0
70440_70436	70440	70436	-	0	24.0
70440_70439	70440	70439	8	0	20.5
70441_70310	70441	70310	-	0	17.5
70441_70440	70441	70440	8	0	18.0
70442_70113	70442	70113	35,441	1595	39.8
70443_70441	70443	70441	-	0	22.0

Road	A node	B node	Without the Proposed Scheme		
			AADT	HDVs	Speed (kph) ¹
70443_70442	70443	70442	1,855	0	19.9
70445_70113	70445	70113	1,816	56	12.9
70445_70444	70445	70444	-	0	23.0
70446_70445	70446	70445	869	57	19.0
70447_70446	70447	70446	57	57	23.0
70448_70116	70448	70116	-	0	18.5
70448_70446	70448	70446	1,655	0	19.9
70449_70448	70449	70448	-	0	23.0
70583_70116	70583	70116	2,453	226	24.0
70693_70030	70693	70030	1,641	225	8.7
70693_70116	70693	70116	1,244	228	20.0
70694_70693	70694	70693	-	0	24.0
70695_70019	70695	70019	6,881	482	7.5
70695_70241	70695	70241	-	0	22.5
70695_70694	70695	70694	3,056	345	31.0
70696_70019	70696	70019	6,142	479	14.6
70697_70019	70697	70019	25,119	1382	21.9
70698_70696	70698	70696	-	0	23.0
70698_70697	70698	70697	-	0	17.5
70699_14265	70699	14265	-	0	23.9

Road	A node	B node	Without the Proposed Scheme		
			AADT	HDVs	Speed (kph) ¹
70699_70698	70699	70698	4,042	0	20.3
70700_70001	70700	70001	25,479	1452	16.1
70700_70697	70700	70697	27,920	1396	34.9
70700_70699	70700	70699	-	0	20.0
14236_14136	14236	14136	10,548	390	14.7
70226_70029	70226	70029	19,804	1109	44.6
70323_70226	70323	70226	17,557	1001	20.3
70326_70029	70326	70029	4,914	585	67.4
70326_70224	70326	70224	31,066	2144	12.6
70338_70248	70338	70248	16,892	1453	36.7
70347_70322	70347	70322	11,854	545	25.3
70431_70248	70431	70248	218	129	20.5
70436_70339	70436	70339	-	0	10.5
12002_12003	12002	12003	4,402	396	19.6
12003_12048	12003	12048	8,307	424	18.0
12004_12387	12004	12387	4,770	258	7.9
12004_12389	12004	12389	1,123	216	7.1
12002_12395	12002	12395	7,533	1032	13.2
12003_12395	12003	12395	2,197	77	4.9
12389_12395	12389	12395	13,325	1706	14.0

Road	A node	B node	Without the Proposed Scheme		
			AADT	HDVs	Speed (kph) ¹
13263_13264	13263	13264	1,876	32	25.0
12389_13280	12389	13280	-	0	25.0
12002_13282	12002	13282	16,724	1723	23.8
13281_13282	13281	13282	4,353	78	14.7
13282_13339	13282	13339	17,456	1728	25.8
13281_13472	13281	13472	1,127	24	12.7
13513_13514	13513	13514	1,646	58	25.0
14092_14094	14092	14094	24	22	22.5
14096_14097	14096	14097	129	129	24.2
14096_14098	14096	14098	-	0	21.6
13281_14105	13281	14105	-	0	23.2
13514_14119	13514	14119	1,646	58	19.9
14088_14119	14088	14119	2,615	34	26.2
14105_14119	14105	14119	1,168	12	24.9
14149_14156	14149	14156	7,525	331	27.4
14155_14156	14155	14156	6,506	514	29.7
14155_14158	14155	14158	39,736	2702	21.2
14016_14160	14016	14160	9,515	504	12.8
14016_14161	14016	14161	9,419	471	18.9
14140_14161	14140	14161	9,731	681	15.7

Road	A node	B node	Without the Proposed Scheme		
			AADT	HDVs	Speed (kph) ¹
14017_14162	14017	14162	86	85	2.1
14017_14163	14017	14163	3,636	167	12.9
14149_14167	14149	14167	4,566	23	27.4
14156_14167	14156	14167	169	168	24.5
14095_14169	14095	14169	24,290	1846	16.6
14159_14170	14159	14170	1,313	226	14.9
14159_14179	14159	14179	9,360	608	30.7
14163_14182	14163	14182	2,894	298	25.3
14178_14182	14178	14182	7,748	511	14.0
14175_14188	14175	14188	23,286	1746	29.2
14187_14188	14187	14188	21,611	1599	18.5
14158_14198	14158	14198	9,506	675	16.7
14179_14198	14179	14198	9,117	602	28.1
14187_14200	14187	14200	20,933	1717	24.9
14095_14205	14095	14205	24,339	1898	34.1
14175_14206	14175	14206	895	44	24.3
14176_14206	14176	14206	2,331	65	23.9
14187_14207	14187	14207	3,384	24	23.3
14206_14207	14206	14207	1,724	9	24.4
14182_14210	14182	14210	4,816	236	30.8

Road	A node	B node	Without the Proposed Scheme		
			AADT	HDVs	Speed (kph) ¹
14179_14213	14179	14213	287	4	22.0
14213_14216	14213	14216	1,180	53	10.1
14159_14224	14159	14224	8,325	383	32.1
14216_14224	14216	14224	1,540	72	21.2
14213_14225	14213	14225	2,109	70	25.0
14158_14231	14158	14231	11,667	268	30.8
14216_14231	14216	14231	3,328	123	20.9
14215_14232	14215	14232	5,677	301	39.1
14217_14232	14217	14232	2,398	101	24.0
14155_14233	14155	14233	21,386	2181	32.4
14205_14233	14205	14233	18,780	1859	38.0
14217_14236	14217	14236	8,369	360	8.7
14181_14242	14181	14242	8,452	625	30.9
14242_14244	14242	14244	1,835	105	23.2
13339_14245	13339	14245	15,246	1708	26.4
14105_14245	14105	14245	2,271	45	8.3
14157_14245	14157	14245	9,676	1403	23.9
14170_14247	14170	14247	5,748	546	30.7
14149_14257	14149	14257	5,689	353	29.8
14256_14257	14256	14257	3,368	121	19.9

Road	A node	B node	Without the Proposed Scheme		
			AADT	HDVs	Speed (kph) ¹
14261_14265	14261	14265	-	0	21.0
14264_14265	14264	14265	4,037	0	24.1
14264_14268	14264	14268	1,731	5	29.8
14268_14269	14268	14269	2,621	5	28.8
14269_14270	14269	14270	118	0	21.2
14200_14271	14200	14271	778	314	21.2
14271_14272	14271	14272	3,618	351	19.4
14162_14273	14162	14273	5,632	321	31.0
14170_14273	14170	14273	7,643	245	25.7
14181_14273	14181	14273	2,099	90	23.3
14269_14274	14269	14274	2,497	5	30.5
14270_14274	14270	14274	300	0	21.6
14186_14279	14186	14279	9,247	148	24.3
14277_14279	14277	14279	5,481	148	30.0
14268_14400	14268	14400	445	0	9.2
14270_14401	14270	14401	118	0	6.2
14400_14401	14400	14401	23,556	2096	24.6
14277_14402	14277	14402	3,352	0	18.7
14401_14402	14401	14402	23,299	2097	14.2
14200_14403	14200	14403	22,445	1908	14.2

Road	A node	B node	Without the Proposed Scheme		
			AADT	HDVs	Speed (kph) ¹
14279_14403	14279	14403	-	0	10.0
14402_14403	14402	14403	19,783	1939	2.0
14187_14404	14187	14404	2,888	66	22.5
14271_14404	14271	14404	2,892	81	23.6
14175_14406	14175	14406	1,181	24	24.3
14404_14407	14404	14407	161	47	22.5
14523_14535	14523	14535	149	7	24.0
14523_14537	14523	14537	-	0	23.1
14200_14558	14200	14558	395	36	24.3
14535_14558	14535	14558	4	4	22.9
14537_14558	14537	14558	1,411	0	24.1
14094_14587	14094	14587	197	152	22.9
14101_14587	14101	14587	1,688	177	24.2
14119_14588	14119	14588	2,280	39	23.6
14154_14589	14154	14589	4,155	345	30.8
14157_14589	14157	14589	6,649	359	29.2
14588_14589	14588	14589	5	0	21.3
14257_14603	14257	14603	5,196	244	31.2
14215_14611	14215	14611	5,248	268	41.0
14224_14611	14224	14611	6,918	318	41.0

Road	A node	B node	Without the Proposed Scheme		
			AADT	HDVs	Speed (kph) ¹
14236_14614	14236	14614	11,811	531	38.0
14250_14614	14250	14614	6,411	218	38.0
14250_14627	14250	14627	10,872	424	38.0
14136_14650	14136	14650	10,151	305	36.0
14137_14650	14137	14650	7,229	376	36.0
14137_14718	14137	14718	4,408	357	17.7
14169_14727	14169	14727	24,557	1768	25.3
14175_14727	14175	14727	20,806	1498	27.5
12390_14738	12390	14738	591	62	23.7
13339_14738	13339	14738	2,859	74	22.2
14231_14747	14231	14747	14,278	400	9.7
14613_14747	14613	14747	3,726	138	31.4
14738_14747	14738	14747	3,246	84	21.0
14245_14774	14245	14774	-	0	24.0
14738_14774	14738	14774	899	92	24.3
14154_14803	14154	14803	5,098	92	28.6
14233_14803	14233	14803	905	177	23.5
14803_14807	14803	14807	4,412	93	25.0
14261_14813	14261	14813	26,125	2168	17.8
14264_14813	14264	14813	398	164	3.2

Road	A node	B node	Without the Proposed Scheme		
			AADT	HDVs	Speed (kph) ¹
14400_14813	14400	14813	25,734	1904	1.2
14535_14813	14535	14813	149	7	6.1
14163_14818	14163	14818	6,868	343	29.6
14230_14818	14230	14818	2,301	336	24.2
14817_14818	14817	14818	841	32	14.9
14261_70001	14261	70001	28,217	2088	7.6
70019_70030	70019	70030	32,469	1526	34.1
66241_70036	66241	70036	50,257	2463	63.1
70030_70107	70030	70107	-	0	24.0
66871_70232	66871	70232	11,916	346	62.1
70001_70241	70001	70241	4,765	872	30.7
70023_70250	70023	70250	3,359	789	36.9
70241_70250	70241	70250	4,671	775	28.2
70250_70251	70250	70251	2,090	13	19.9
70030_70253	70030	70253	32,963	1780	34.8
70113_70253	70113	70253	37,985	1671	27.6
70121_70253	70121	70253	611	215	12.6
14523_70312	14523	70312	922	12	22.1
70090_70326	70090	70326	35,980	2734	109.8
70213_70345	70213	70345	24,300	753	61.8

Road	A node	B node	Without the Proposed Scheme		
			AADT	HDVs	Speed (kph) ¹
70436_70437	70436	70437	524	3	24.5
70436_70440	70436	70440	-	0	24.0
70439_70440	70439	70440	-	0	25.0
70310_70441	70310	70441	4,616	14	23.8
70440_70441	70440	70441	-	0	18.0
70310_70442	70310	70442	32,822	1608	44.0
70441_70443	70441	70443	4,608	14	24.9
70442_70443	70442	70443	-	0	23.0
70113_70445	70113	70445	-	0	19.0
70444_70445	70444	70445	947	0	23.0
70445_70446	70445	70446	-	0	19.0
70446_70447	70446	70447	843	0	25.0
70116_70448	70116	70448	1,788	18	24.0
70446_70448	70446	70448	-	0	24.0
70448_70449	70448	70449	133	18	23.0
70116_70583	70116	70583	268	210	17.0
70030_70693	70030	70693	1,244	228	25.0
70116_70693	70116	70693	1,641	225	20.0
70693_70694	70693	70694	-	0	24.0
70019_70695	70019	70695	3,056	345	28.3

Road	A node	B node	Without the Proposed Scheme		
			AADT	HDVs	Speed (kph) ¹
70241_70695	70241	70695	93	81	23.0
70694_70695	70694	70695	6,769	386	30.8
70019_70696	70019	70696	4,481	453	29.9
70019_70697	70019	70697	24,227	1429	35.0
70696_70698	70696	70698	-	0	25.0
70697_70698	70697	70698	-	0	23.5
14265_70699	14265	70699	4,037	0	25.0
70698_70699	70698	70699	-	0	24.0
70001_70700	70001	70700	27,930	1369	34.7
70697_70700	70697	70700	25,479	1452	35.0
70699_70700	70699	70700	-	0	18.0
14136_14236	14136	14236	6,162	388	25.3
70029_70224	70029	70224	24,718	1681	46.4
70225_70226	70225	70226	39,426	2168	28.7
70224_70229	70224	70229	25,240	1338	3.8
70226_70321	70226	70321	25,496	1479	22.9
70322_70323	70322	70323	43,991	2420	10.5
70226_70324	70226	70324	1,579	196	84.9
70323_70324	70323	70324	26,434	1427	47.2
70229_70325	70229	70325	10,335	496	102.2

Road	A node	B node	Without the Proposed Scheme		
			AADT	HDVs	Speed (kph) ¹
70324_70325	70324	70325	28,013	1625	44.8
70224_70329	70224	70329	30,543	2505	44.4
70213_70332	70213	70332	21,649	1061	49.8
70248_70338	70248	70338	274	146	28.0
70248_70339	70248	70339	16,689	1318	46.4
70248_70431	70248	70431	171	129	24.0
70339_70436	70339	70436	524	3	16.5

CFAo03 Construction Traffic Data - Test 1

Table 2: Traffic data used in the construction assessment

Road	A node	B node	Without the Proposed Scheme			With the Proposed Scheme			Change in AADT	Change in HDVs	Change in Speed
			AADT	HDVs	Speed (kph) ¹	AADT	HDVs	Speed (kph) ¹			
12003_12002	12003	12002	2,980	39	20.4	3,162	35	20.2	182	-4	-0.2
12048_12003	12048	12003	5,313	207	21.4	5,450	153	21.4	137	-55	0.0
12387_12004	12387	12004	2,092	222	23.7	1,801	222	23.9	-291	0	0.2
12389_12004	12389	12004	4,839	266	23.2	4,856	262	23.2	17	-4	0.0
12395_12002	12395	12002	11,197	1,668	29.8	11,454	1,661	29.8	257	-8	0.0
12395_12003	12395	12003	2,221	24	27.6	1,901	40	27.7	-320	15	0.0
12395_12389	12395	12389	8,488	1,316	13.7	9,636	1,416	13.4	1,148	101	-0.3
13264_13263	13264	13263	2,363	24	14.8	2,368	24	14.8	5	0	0.0
13280_12389	13280	12389	215	0	13.7	129	0	13.7	-86	0	0.0
13282_12002	13282	12002	13,341	1,334	15.0	13,799	1,504	15.0	458	170	0.1
13282_13281	13282	13281	953	15	23.5	1,019	17	23.5	66	2	0.0
13339_13282	13339	13282	11,949	1,195	33.0	12,315	1,367	33.0	366	172	0.0
13472_13281	13472	13281	4,419	80	24.2	3,986	68	24.2	-433	-12	0.0
13514_13513	13514	13513	1,832	117	13.1	1,791	124	13.1	-41	6	0.0
14094_14091	14094	14091	2,599	117	23.0	2,553	120	23.0	-46	3	0.0
14095_14094	14095	14094	3,609	292	23.0	3,580	297	23.0	-29	5	0.0
14098_14096	14098	14096	0	0	21.5	0	0	21.5	0	0	0.0

Road	A node	B node	Without the Proposed Scheme			With the Proposed Scheme			Change in AADT	Change in HDVs	Change in Speed
			AADT	HDVs	Speed (kph) ¹	AADT	HDVs	Speed (kph) ¹			
14105_13281	14105	13281	749	1	23.1	746	1	23.1	-3	0	0.0
14119_13514	14119	13514	1,831	117	25.0	1,791	124	25.0	-40	6	0.0
14119_14088	14119	14088	1,066	42	22.8	930	42	22.4	-136	0	-0.4
14119_14105	14119	14105	2,276	36	25.3	2,271	59	25.3	-5	23	0.0
14156_14149	14156	14149	2,774	236	26.3	2,736	238	26.5	-38	2	0.2
14156_14155	14156	14155	3,677	316	1.8	3,690	317	1.8	13	1	0.0
14158_14157	14158	14157	15,794	758	11.1	15,522	745	11.1	-272	-13	0.1
14160_14016	14160	14016	7,367	449	23.4	7,852	510	23.0	485	61	-0.4
14161_14016	14161	14016	8,378	461	21.2	9,046	470	21.1	668	10	-0.1
14161_14140	14161	14140	7,163	688	9.0	7,190	755	7.9	27	67	-1.0
14162_14017	14162	14017	698	122	23.3	712	126	23.4	14	4	0.1
14163_14017	14163	14017	2,923	117	24.0	2,919	120	24.0	-4	3	0.0
14167_14156	14167	14156	956	108	22.7	905	108	22.7	-51	0	0.0
14169_14095	14169	14095	23,022	1,911	11.4	22,691	1,929	11.6	-331	18	0.2
14170_14159	14170	14159	5,820	308	16.4	5,693	313	16.5	-127	5	0.0
14179_14159	14179	14159	11,143	702	20.8	9,612	538	20.9	-1,531	-164	0.1
14182_14163	14182	14163	7,914	293	20.2	8,021	289	19.6	107	-4	-0.6
14182_14181	14182	14181	11,657	734	28.7	11,567	729	28.7	-90	-6	0.0
14188_14175	14188	14175	18,152	1,380	21.3	17,806	1,407	21.4	-346	27	0.0
14188_14187	14188	14187	20,664	1,674	7.9	20,340	1,668	7.9	-324	-6	0.0

Road	A node	B node	Without the Proposed Scheme			With the Proposed Scheme			Change in AADT	Change in HDVs	Change in Speed
			AADT	HDVs	Speed (kph) ¹	AADT	HDVs	Speed (kph) ¹			
14198_14158	14198	14158	8,392	713	3.8	8,382	771	3.7	-10	58	-0.1
14198_14179	14198	14179	9,369	675	29.9	7,789	506	29.8	-1,580	-168	0.0
14200_14187	14200	14187	16,658	1,366	18.8	16,481	1,384	18.8	-177	18	0.0
14205_14095	14205	14095	23,547	1,978	8.6	23,267	1,978	8.7	-280	0	0.0
14205_14149	14205	14149	3,200	83	22.1	3,229	81	22.1	29	-2	0.0
14206_14175	14206	14175	1,228	146	3.1	1,235	147	3.1	7	1	0.0
14206_14176	14206	14176	1,744	58	11.7	1,745	56	11.7	1	-2	0.0
14207_14187	14207	14187	2,122	45	7.7	2,118	47	7.7	-4	2	0.1
14207_14206	14207	14206	570	3	22.3	608	4	22.3	38	1	0.0
14210_14182	14210	14182	8,011	409	18.9	8,081	412	18.9	70	4	0.0
14213_14179	14213	14179	2,153	15	18.6	2,062	12	18.8	-91	-3	0.2
14216_14213	14216	14213	2,921	67	19.5	3,056	67	19.5	135	0	0.0
14224_14159	14224	14159	4,141	306	12.5	3,918	357	12.4	-223	50	-0.1
14224_14216	14224	14216	5,987	90	24.3	5,487	93	24.3	-500	3	0.0
14225_14213	14225	14213	1,521	56	14.6	1,521	56	14.5	0	0	-0.1
14231_14158	14231	14158	2,724	93	8.5	2,669	8	9.2	-55	-85	0.7
14231_14216	14231	14216	4,303	133	24.5	4,789	139	24.5	486	5	0.0
14232_14215	14232	14215	3,620	243	41.0	2,896	295	41.0	-724	53	0.0
14232_14217	14232	14217	8,982	512	21.8	8,171	539	23.3	-811	27	1.4
14233_14155	14233	14155	14,676	1,644	13.0	14,368	1,652	13.2	-308	9	0.3

Road	A node	B node	Without the Proposed Scheme			With the Proposed Scheme			Change in AADT	Change in HDVs	Change in Speed
			AADT	HDVs	Speed (kph) ¹	AADT	HDVs	Speed (kph) ¹			
14233_14205	14233	14205	23,547	1,978	38.0	23,267	1,978	38.0	-280	0	0.0
14242_14178	14242	14178	7,632	550	30.6	7,650	543	30.6	18	-6	0.0
14244_14242	14244	14242	1,474	29	21.5	1,486	27	21.5	12	-3	0.0
14245_13339	14245	13339	9,693	1,212	32.0	10,919	1,387	31.9	1,226	175	-0.1
14245_14105	14245	14105	5,530	11	29.1	5,431	11	29.1	-99	0	0.0
14245_14157	14245	14157	7,696	1,701	12.7	7,610	1,727	12.5	-86	27	-0.2
14247_14170	14247	14170	2,082	398	2.3	2,124	408	2.4	42	10	0.1
14250_14232	14250	14232	6,635	332	17.5	6,611	450	17.2	-24	118	-0.3
14257_14149	14257	14149	2,706	208	30.3	2,773	208	30.3	67	0	0.0
14257_14256	14257	14256	1,382	86	24.0	1,383	84	24.0	1	-1	0.0
14265_14261	14265	14261	0	0	18.2	0	0	18.2	0	0	0.0
14265_14264	14265	14264	0	0	9.2	0	0	9.2	0	0	0.0
14268_14264	14268	14264	6,401	179	7.5	6,437	167	7.4	36	-12	0.0
14269_14268	14269	14268	6,401	179	28.3	6,437	167	28.3	36	-12	0.0
14270_14269	14270	14269	0	0	20.4	0	0	20.4	0	0	0.0
14271_14200	14271	14200	793	127	10.2	901	135	9.8	108	8	-0.4
14272_14271	14272	14271	3,652	150	28.9	3,743	157	28.8	91	7	0.0
14273_14162	14273	14162	2,133	237	22.1	2,246	245	22.0	113	8	-0.1
14273_14170	14273	14170	9,427	471	1.7	9,416	490	1.7	-11	18	0.0
14273_14181	14273	14181	40	0	23.8	13	0	23.8	-27	0	0.0

Road	A node	B node	Without the Proposed Scheme			With the Proposed Scheme			Change in AADT	Change in HDVs	Change in Speed
			AADT	HDVs	Speed (kph) ¹	AADT	HDVs	Speed (kph) ¹			
14274_14269	14274	14269	6,401	179	30.2	6,437	167	30.2	36	-12	0.0
14274_14270	14274	14270	0	0	24.2	0	0	24.2	0	0	0.0
14279_14186	14279	14186	7,043	148	16.0	7,202	151	16.0	159	3	0.0
14279_14277	14279	14277	10,302	175	28.3	10,371	166	28.3	69	-9	0.0
14400_14268	14400	14268	425	0	19.9	417	0	19.8	-8	0	0.0
14401_14270	14401	14270	476	0	20.4	447	0	20.4	-29	0	0.0
14401_14400	14401	14400	22,743	1,706	22.4	22,566	1,715	22.4	-177	9	0.0
14402_14277	14402	14277	2,959	145	21.7	3,022	145	21.7	63	0	0.0
14402_14401	14402	14401	22,742	1,706	22.4	22,565	1,715	22.4	-177	9	0.0
14403_14200	14403	14200	16,378	1,703	17.1	16,080	1,721	17.2	-298	17	0.0
14403_14279	14403	14279	1,041	0	21.4	1,060	0	21.4	19	0	0.0
14403_14402	14403	14402	17,574	1,705	23.2	17,357	1,701	23.2	-217	-4	0.0
14404_14187	14404	14187	2,979	42	2.2	2,967	42	2.3	-12	0	0.0
14404_14271	14404	14271	2,767	105	23.7	2,763	105	23.7	-4	0	0.0
14406_14175	14406	14175	1,699	61	12.0	1,666	58	12.3	-33	-3	0.3
14407_14404	14407	14404	253	37	22.1	256	37	22.1	3	0	0.0
14535_14523	14535	14523	1,629	42	23.9	1,606	42	23.9	-23	-1	0.0
14537_14523	14537	14523	0	0	23.1	0	0	23.1	0	0	0.0
14558_14200	14558	14200	3,513	4	7.9	3,490	0	8.0	-23	-4	0.1
14558_14535	14558	14535	0	0	23.1	0	0	23.1	0	0	0.0

Road	A node	B node	Without the Proposed Scheme			With the Proposed Scheme			Change in AADT	Change in HDVs	Change in Speed
			AADT	HDVs	Speed (kph) ¹	AADT	HDVs	Speed (kph) ¹			
14558_14537	14558	14537	393	30	24.2	399	30	24.2	6	0	0.0
14587_14096	14587	14096	130	129	23.2	129	129	23.2	-1	0	0.0
14587_14169	14587	14169	1,979	267	3.9	1,977	263	4.0	-2	-4	0.0
14588_14119	14588	14119	2,086	140	18.3	2,037	149	18.3	-49	9	0.0
14589_14154	14589	14154	8,226	280	24.5	8,140	277	24.5	-86	-3	0.0
14589_14157	14589	14157	4,110	288	3.7	4,146	290	3.6	36	3	-0.1
14589_14588	14589	14588	905	45	22.0	878	50	22.0	-27	5	0.0
14603_14257	14603	14257	664	97	31.3	712	97	31.3	48	0	0.0
14611_14215	14611	14215	5,585	363	37.3	4,098	160	37.3	-1,487	-203	0.0
14611_14224	14611	14224	4,330	247	36.1	3,616	297	36.3	-714	50	0.2
14614_14236	14614	14236	4,995	250	12.7	0	0	13.7	-4,995	-250	1.0
14614_14250	14614	14250	11,951	621	14.9	9,113	383	17.8	-2,838	-239	2.9
14627_14250	14627	14250	11,868	427	25.3	7,521	376	19.1	-4,347	-51	-6.2
14650_14136	14650	14136	5,477	444	4.4	4,062	110	16.8	-1,415	-334	12.4
14650_14137	14650	14137	7,993	312	7.5	9,990	260	7.3	1,997	-52	-0.2
14718_14137	14718	14137	5,568	278	4.4	6,629	471	3.3	1,061	192	-1.1
14727_14169	14727	14169	20,509	1,497	24.3	20,181	1,514	24.4	-328	16	0.1
14727_14175	14727	14175	19,371	1,588	21.7	19,076	1,583	21.8	-295	-5	0.0
14738_12390	14738	12390	1,434	37	25.0	1,231	38	25.0	-203	1	0.0
14738_13339	14738	13339	4,954	79	18.6	4,093	78	18.4	-861	-1	-0.2

Road	A node	B node	Without the Proposed Scheme			With the Proposed Scheme			Change in AADT	Change in HDVs	Change in Speed
			AADT	HDVs	Speed (kph) ¹	AADT	HDVs	Speed (kph) ¹			
14747_14231	14747	14231	7,012	231	9.1	7,248	152	8.4	236	-79	-0.6
14747_14613	14747	14613	4,777	134	29.8	4,917	152	29.7	140	19	-0.1
14747_14738	14747	14738	5,971	107	21.0	4,782	105	21.2	-1,189	-2	0.3
14760_14137	14760	14137	10,360	1,285	6.2	10,080	1,048	4.7	-280	-236	-1.6
14774_14158	14774	14158	982	44	18.7	876	56	18.8	-106	12	0.1
14774_14738	14774	14738	730	21	24.3	741	22	24.3	11	1	0.0
14803_14154	14803	14154	1,286	175	22.2	1,285	173	22.2	-1	-1	0.0
14803_14233	14803	14233	11,846	47	14.9	11,800	47	14.9	-46	0	0.0
14807_14803	14807	14803	3,480	42	14.0	3,480	42	14.0	0	0	0.0
14813_14261	14813	14261	26,439	1,930	35.1	26,272	1,944	35.1	-167	14	0.0
14813_14264	14813	14264	954	0	6.4	1,092	0	6.5	138	0	0.1
14813_14400	14813	14400	21,179	1,864	24.7	20,905	1,881	24.8	-274	18	0.0
14813_14535	14813	14535	1,629	42	23.2	1,606	42	23.2	-23	-1	0.0
14818_14163	14818	14163	2,663	325	11.2	2,660	325	11.2	-3	0	0.0
14818_14230	14818	14230	6,805	340	13.6	7,174	337	12.7	369	-3	-1.0
14818_14817	14818	14817	1,025	38	25.0	1,024	38	25.0	-1	0	0.0
14950_14155	14950	14155	10,682	2,371	3.6	10,419	2,376	3.7	-263	4	0.1
14950_14157	14950	14157	18,990	1,728	7.4	18,663	1,736	7.5	-327	8	0.1
14954_14136	14954	14136	8,591	404	2.5	0	0	1.6	-8,591	-404	-0.9
14954_14236	14954	14236	5,359	456	24.8	0	0	27.2	-5,359	-456	2.4

Road	A node	B node	Without the Proposed Scheme			With the Proposed Scheme			Change in AADT	Change in HDVs	Change in Speed
			AADT	HDVs	Speed (kph) ¹	AADT	HDVs	Speed (kph) ¹			
70001_14261	70001	14261	22,772	1,936	36.0	22,685	1,951	36.0	-87	15	0.0
70030_70019	70030	70019	23,731	1,187	39.5	23,603	1,204	39.5	-128	17	0.0
70107_70030	70107	70030	346	5	16.8	349	5	16.8	3	0	0.0
70241_70001	70241	70001	5,592	856	2.5	5,595	856	2.5	3	0	0.0
70250_70023	70250	70023	3,857	756	22.2	3,892	759	22.2	35	3	0.0
70250_70241	70250	70241	5,592	856	34.6	5,595	856	34.6	3	0	0.0
70251_70250	70251	70250	2,967	56	19.8	2,958	56	19.8	-9	0	0.0
70253_70030	70253	70030	23,531	1,412	29.9	23,395	1,450	29.9	-136	39	0.0
70253_70121	70253	70121	871	259	25.0	863	259	25.0	-8	0	0.0
70253_70213	70253	70213	46,183	1,663	57.6	46,066	1,658	57.5	-117	-4	-0.1
70312_14523	70312	14523	356	7	24.4	339	7	24.4	-17	0	0.0
70319_66242	70319	66242	56,048	2,802	46.6	56,073	2,804	46.6	25	1	0.0
70325_70092	70325	70092	45,314	1,994	108.5	45,296	1,993	108.5	-18	-1	0.0
70339_70310	70339	70310	38,299	1,417	58.2	38,205	1,452	58.1	-94	35	-0.1
70344_70339	70344	70339	24,050	313	38.0	24,022	312	38.1	-28	0	0.1
70347_70328	70347	70328	6,932	347	62.7	6,918	346	62.7	-14	-1	0.0
70437_70436	70437	70436	6	0	23.0	6	0	23.0	0	0	0.0
70440_70436	70440	70436	0	0	24.0	0	0	24.0	0	0	0.0
70440_70439	70440	70439	0	0	20.5	0	0	20.5	0	0	0.0
70441_70310	70441	70310	0	0	18.0	0	0	18.0	0	0	0.0

Road	A node	B node	Without the Proposed Scheme			With the Proposed Scheme			Change in AADT	Change in HDVs	Change in Speed
			AADT	HDVs	Speed (kph) ¹	AADT	HDVs	Speed (kph) ¹			
70441_70440	70441	70440	0	0	18.0	0	0	18.0	0	0	0.0
70442_70113	70442	70113	34,013	1,327	39.9	33,878	1,355	39.9	-135	29	-0.1
70443_70441	70443	70441	0	0	22.0	0	0	22.0	0	0	0.0
70443_70442	70443	70442	2,044	0	20.3	2,039	0	20.3	-5	0	0.0
70445_70113	70445	70113	2,112	70	13.4	2,105	69	13.5	-7	0	0.0
70445_70444	70445	70444	0	0	23.0	0	0	23.0	0	0	0.0
70446_70445	70446	70445	980	69	19.0	972	69	19.0	-8	0	0.0
70447_70446	70447	70446	69	69	23.0	69	69	23.0	0	0	0.0
70448_70116	70448	70116	0	0	18.0	0	0	18.0	0	0	0.0
70448_70446	70448	70446	1,657	7	19.9	1,647	7	19.9	-10	0	0.0
70449_70448	70449	70448	0	0	23.0	0	0	23.0	0	0	0.0
70583_70116	70583	70116	3,069	227	23.9	3,057	229	23.9	-12	2	0.0
70693_70030	70693	70030	2,159	229	8.8	2,154	228	8.8	-5	-1	0.0
70693_70116	70693	70116	1,592	228	19.9	1,596	228	19.9	4	1	0.0
70694_70693	70694	70693	0	0	24.0	0	0	24.0	0	0	0.0
70695_70019	70695	70019	6,635	491	8.0	6,644	492	8.0	9	1	0.0
70695_70241	70695	70241	0	0	22.0	0	0	22.0	0	0	0.0
70695_70694	70695	70694	1,495	345	31.0	1,487	345	31.0	-8	0	0.0
70696_70019	70696	70019	5,824	483	14.7	5,831	484	14.7	7	1	0.0
70697_70019	70697	70019	23,649	1,206	21.9	23,522	1,200	21.9	-127	-6	0.0

Road	A node	B node	Without the Proposed Scheme			With the Proposed Scheme			Change in AADT	Change in HDVs	Change in Speed
			AADT	HDVs	Speed (kph) ¹	AADT	HDVs	Speed (kph) ¹			
70698_70696	70698	70696	0	0	23.0	0	0	23.0	0	0	0.0
70698_70697	70698	70697	0	0	17.5	0	0	17.5	0	0	0.0
70699_14265	70699	14265	0	0	23.8	0	0	23.8	0	0	0.0
70699_70698	70699	70698	3,795	0	20.5	3,832	0	20.5	37	0	0.0
70700_70001	70700	70001	23,490	1,198	24.4	23,337	1,237	24.4	-153	39	-0.1
70700_70697	70700	70697	26,351	1,212	34.9	26,152	1,203	34.9	-199	-9	0.0
70700_70699	70700	70699	0	0	20.0	0	0	20.0	0	0	0.0
70819_70328	70819	70328	9,103	865	22.1	9,132	858	22.1	29	-6	0.0
70819_70816	70819	70816	27,024	2,108	36.9	26,997	2,106	36.9	-27	-2	0.0
70820_70325	70820	70325	19,059	762	97.0	19,018	799	96.7	-41	36	-0.2
70821_70325	70821	70325	26,255	1,208	69.3	26,278	1,209	69.2	23	1	-0.1
70823_70821	70823	70821	5,232	78	15.3	5,273	84	15.3	41	6	0.0
70824_70819	70824	70819	27,753	1,721	22.6	27,771	1,722	22.6	18	1	0.0
70824_70822	70824	70822	27,797	2,029	22.6	27,721	2,051	22.6	-76	22	0.0
70825_70820	70825	70820	19,059	762	42.0	19,018	799	42.0	-41	36	0.0
70826_70819	70826	70819	12,709	1,093	10.7	12,689	1,104	10.7	-20	11	0.0
70845_70843	70845	70843	1,974	87	20.0	1,967	89	20.0	-7	2	0.0
70846_70339	70846	70339	14,250	1,112	51.0	14,183	1,135	50.8	-67	23	-0.2
12002_12003	12002	12003	4,364	214	20.1	4,170	213	20.2	-194	-1	0.2
12003_12048	12003	12048	6,585	237	18.4	6,070	255	18.5	-515	18	0.1

Road	A node	B node	Without the Proposed Scheme			With the Proposed Scheme			Change in AADT	Change in HDVs	Change in Speed
			AADT	HDVs	Speed (kph) ¹	AADT	HDVs	Speed (kph) ¹			
12004_12387	12004	12387	4,840	266	9.3	4,856	262	9.2	16	-4	-0.1
12004_12389	12004	12389	1,448	222	6.9	1,409	223	6.9	-39	1	0.0
12002_12395	12002	12395	7,293	1,094	15.1	8,016	1,267	15.1	723	173	0.1
12003_12395	12003	12395	2,333	168	4.5	2,289	114	4.7	-44	-54	0.2
12389_12395	12389	12395	12,188	1,694	15.3	12,474	1,696	15.1	286	2	-0.2
13263_13264	13263	13264	1,810	31	25.0	1,791	30	25.0	-19	0	0.0
12389_13280	12389	13280	0	0	25.0	0	0	25.0	0	0	0.0
12002_13282	12002	13282	15,467	1,717	24.0	15,991	1,711	23.9	524	-6	-0.2
13281_13282	13281	13282	4,892	78	14.7	4,402	70	14.7	-490	-8	0.0
13282_13339	13282	13339	17,584	1,741	23.9	17,244	1,724	23.3	-340	-16	-0.6
13281_13472	13281	13472	1,229	15	12.7	1,349	18	12.6	120	3	-0.1
13513_13514	13513	13514	1,456	50	25.0	1,513	71	25.0	57	22	0.0
14092_14094	14092	14094	362	70	22.5	364	70	22.5	2	0	0.0
14096_14097	14096	14097	130	129	24.2	129	129	24.2	-1	0	0.0
14096_14098	14096	14098	0	0	21.6	0	0	21.6	0	0	0.0
13281_14105	13281	14105	0	0	23.0	0	0	23.1	0	0	0.0
13514_14119	13514	14119	1,456	50	19.7	1,513	71	19.6	57	22	0.0
14088_14119	14088	14119	2,864	34	26.1	2,916	35	26.1	52	1	0.0
14105_14119	14105	14119	5,530	11	20.9	5,432	11	20.7	-98	0	-0.2
14149_14156	14149	14156	2,660	207	28.0	2,728	207	28.0	68	0	0.0

Road	A node	B node	Without the Proposed Scheme			With the Proposed Scheme			Change in AADT	Change in HDVs	Change in Speed
			AADT	HDVs	Speed (kph) ¹	AADT	HDVs	Speed (kph) ¹			
14155_14156	14155	14156	2,868	327	30.2	2,833	334	30.2	-35	7	0.0
14155_14158	14155	14158	146	146	12.8	146	146	12.8	0	0	0.0
14157_14158	14157	14158	14,424	736	12.8	12,977	571	12.6	-1,447	-165	-0.3
14016_14160	14016	14160	8,445	524	12.8	9,113	529	12.5	668	5	-0.3
14016_14161	14016	14161	9,224	452	18.9	9,635	520	18.7	411	68	-0.2
14140_14161	14140	14161	8,470	652	17.1	9,161	660	16.5	691	7	-0.5
14017_14162	14017	14162	86	85	2.5	86	85	2.4	0	0	-0.1
14017_14163	14017	14163	1,772	167	13.5	1,877	173	13.5	105	6	0.0
14149_14167	14149	14167	2,745	66	27.6	2,702	65	27.6	-43	-1	0.0
14156_14167	14156	14167	92	90	24.5	94	92	24.5	2	2	0.0
14095_14169	14095	14169	22,339	1,787	19.8	22,032	1,785	20.2	-307	-3	0.5
14159_14170	14159	14170	1,967	250	11.9	1,969	240	11.8	2	-10	0.0
14159_14179	14159	14179	7,434	632	30.8	7,587	690	30.8	153	59	0.0
14163_14182	14163	14182	3,341	314	24.6	3,510	312	24.5	169	-2	-0.1
14178_14182	14178	14182	13,174	540	14.3	13,119	538	13.8	-55	-2	-0.5
14175_14188	14175	14188	20,664	1,674	32.3	20,340	1,668	32.3	-324	-6	0.0
14187_14188	14187	14188	18,151	1,379	13.8	17,806	1,407	13.8	-345	27	0.0
14158_14198	14158	14198	9,866	691	24.3	8,319	524	25.9	-1,547	-167	1.7
14179_14198	14179	14198	7,276	626	28.5	7,255	689	28.5	-21	63	0.0
14187_14200	14187	14200	17,765	1,599	24.4	17,544	1,597	24.4	-221	-2	0.0

Road	A node	B node	Without the Proposed Scheme			With the Proposed Scheme			Change in AADT	Change in HDVs	Change in Speed
			AADT	HDVs	Speed (kph) ¹	AADT	HDVs	Speed (kph) ¹			
14095_14205	14095	14205	19,191	1,746	34.4	18,924	1,760	34.4	-267	14	0.0
14175_14206	14175	14206	1,418	60	24.2	1,433	57	24.2	15	-2	0.0
14176_14206	14176	14206	3,290	188	23.7	3,252	189	23.7	-38	1	0.0
14187_14207	14187	14207	4,415	71	23.2	4,444	71	23.2	29	0	0.0
14206_14207	14206	14207	2,757	44	24.4	2,767	44	24.4	10	0	0.0
14182_14210	14182	14210	5,067	233	30.6	5,220	235	30.5	153	2	0.0
14179_14213	14179	14213	1,610	11	22.9	1,678	12	23.0	68	0	0.1
14213_14216	14213	14216	1,857	54	8.8	2,152	54	8.6	295	0	-0.2
14159_14224	14159	14224	9,754	429	30.4	7,916	230	30.1	-1,838	-200	-0.4
14216_14224	14216	14224	1,630	82	21.4	1,972	83	21.5	342	1	0.1
14213_14225	14213	14225	2,042	67	25.0	2,041	67	25.0	-1	0	0.0
14158_14231	14158	14231	1,257	83	31.2	1,686	105	31.2	429	22	0.0
14216_14231	14216	14231	7,597	129	22.5	7,400	141	22.4	-197	11	-0.1
14215_14232	14215	14232	4,357	349	39.3	2,869	141	39.4	-1,488	-208	0.1
14217_14232	14217	14232	2,138	107	24.0	2,117	269	24.0	-21	162	0.0
14155_14233	14155	14233	7,481	2,102	32.5	7,302	2,096	32.5	-179	-6	0.0
14205_14233	14205	14233	14,676	1,644	38.0	14,368	1,652	38.0	-308	9	0.0
14217_14236	14217	14236	8,769	377	8.8	7,916	459	7.2	-853	82	-1.5
14181_14242	14181	14242	7,581	576	30.9	7,596	570	30.9	15	-6	0.0
14242_14244	14242	14244	1,421	53	23.1	1,431	53	23.1	10	0	0.0

Road	A node	B node	Without the Proposed Scheme			With the Proposed Scheme			Change in AADT	Change in HDVs	Change in Speed
			AADT	HDVs	Speed (kph) ¹	AADT	HDVs	Speed (kph) ¹			
13339_14245	13339	14245	13,312	1,677	26.2	13,101	1,664	26.2	-211	-13	0.0
14105_14245	14105	14245	1,526	37	8.7	1,524	56	8.7	-2	20	0.0
14157_14245	14157	14245	10,729	1,223	27.6	11,971	1,401	27.5	1,242	178	-0.2
14170_14247	14170	14247	5,305	531	30.8	5,416	542	30.8	111	11	0.0
14149_14257	14149	14257	3,308	261	29.6	3,347	261	29.6	39	0	0.0
14256_14257	14256	14257	3,352	104	20.2	3,367	104	20.2	15	0	0.0
14261_14265	14261	14265	0	0	21.1	0	0	21.1	0	0	0.0
14264_14265	14264	14265	3,791	0	24.1	3,826	0	24.1	35	0	0.0
14264_14268	14264	14268	2,292	7	29.8	2,411	5	29.8	119	-2	0.0
14268_14269	14268	14269	2,286	7	28.9	2,389	7	28.8	103	0	0.0
14269_14270	14269	14270	0	0	21.1	0	0	21.1	0	0	0.0
14200_14271	14200	14271	2,844	284	20.5	2,821	285	20.5	-23	1	0.0
14271_14272	14271	14272	5,453	333	19.4	5,425	336	19.4	-28	4	0.0
14162_14273	14162	14273	4,721	293	31.0	4,831	304	31.1	110	12	0.0
14170_14273	14170	14273	1,961	231	26.6	2,080	237	26.6	119	6	0.0
14181_14273	14181	14273	3,857	143	23.4	3,730	142	23.4	-127	-1	0.0
14269_14274	14269	14274	2,286	7	30.5	2,389	7	30.5	103	0	0.0
14270_14274	14270	14274	476	0	21.6	447	0	21.6	-29	0	0.0
14186_14279	14186	14279	10,302	175	23.9	10,371	166	23.9	69	-9	0.0
14277_14279	14277	14279	5,937	148	30.0	6,076	152	30.0	139	3	0.0

Road	A node	B node	Without the Proposed Scheme			With the Proposed Scheme			Change in AADT	Change in HDVs	Change in Speed
			AADT	HDVs	Speed (kph) ¹	AADT	HDVs	Speed (kph) ¹			
14268_14400	14268	14400	427	0	11.6	434	0	11.6	7	0	0.0
14270_14401	14270	14401	0	0	7.2	0	0	7.2	0	0	0.0
14400_14401	14400	14401	21,191	1,865	24.4	20,938	1,884	24.5	-253	20	0.1
14277_14402	14277	14402	3,660	0	19.3	3,692	0	19.3	32	0	0.0
14401_14402	14401	14402	20,540	1,869	14.2	20,327	1,890	12.1	-213	21	-2.1
14200_14403	14200	14403	19,034	1,694	16.2	18,845	1,715	16.0	-189	21	-0.1
14279_14403	14279	14403	0	0	10.0	0	0	10.0	0	0	0.0
14402_14403	14402	14403	16,378	1,703	2.2	16,080	1,721	2.2	-298	17	0.0
14187_14404	14187	14404	2,664	77	22.6	2,663	77	22.5	-1	0	0.0
14271_14404	14271	14404	3,018	78	23.5	3,001	78	23.5	-17	0	0.0
14175_14406	14175	14406	1,279	40	24.4	1,238	42	24.4	-41	2	0.0
14404_14407	14404	14407	189	46	22.5	190	46	22.5	1	0	0.0
14523_14535	14523	14535	616	7	24.0	584	7	24.0	-32	0	0.0
14523_14537	14523	14537	0	0	23.1	0	0	23.1	0	0	0.0
14200_14558	14200	14558	393	30	24.3	399	30	24.3	6	0	0.0
14535_14558	14535	14558	0	0	23.0	0	0	23.0	0	0	0.0
14537_14558	14537	14558	3,513	4	24.1	3,490	0	24.1	-23	-4	0.0
14094_14587	14094	14587	714	199	22.9	731	199	22.9	17	0	0.0
14101_14587	14101	14587	651	173	24.3	639	168	24.3	-12	-5	0.0
14119_14588	14119	14588	6,764	41	23.2	6,907	41	23.2	143	1	0.0

Road	A node	B node	Without the Proposed Scheme			With the Proposed Scheme			Change in AADT	Change in HDVs	Change in Speed
			AADT	HDVs	Speed (kph) ¹	AADT	HDVs	Speed (kph) ¹			
14154_14589	14154	14589	3,956	289	30.8	3,950	292	30.8	-6	4	0.0
14157_14589	14157	14589	9,193	331	28.9	9,076	327	28.9	-117	-4	0.0
14588_14589	14588	14589	147	0	20.8	187	0	20.8	40	0	0.0
14257_14603	14257	14603	3,328	163	31.3	3,362	165	31.3	34	2	0.0
14215_14611	14215	14611	4,330	247	41.0	3,616	297	41.0	-714	50	0.0
14224_14611	14224	14611	5,585	363	41.0	4,098	160	41.0	-1,487	-203	0.0
14236_14614	14236	14614	11,951	621	38.0	9,113	383	38.0	-2,838	-239	0.0
14250_14614	14250	14614	4,995	250	38.0	0	0	38.0	-4,995	-250	0.0
14250_14627	14250	14627	11,155	535	38.0	9,113	383	38.0	-2,042	-153	0.0
14136_14650	14136	14650	7,993	312	36.0	9,990	260	36.0	1,997	-52	0.0
14137_14650	14137	14650	5,477	444	36.0	4,062	110	36.0	-1,415	-334	0.0
14137_14718	14137	14718	5,189	353	15.6	6,938	728	14.4	1,749	376	-1.2
14169_14727	14169	14727	22,623	1,697	25.8	22,323	1,697	25.9	-300	0	0.0
14175_14727	14175	14727	17,329	1,404	30.1	16,981	1,426	30.1	-348	23	0.0
12390_14738	12390	14738	475	20	23.6	501	32	23.6	26	12	0.0
13339_14738	13339	14738	4,768	110	22.1	4,416	93	22.1	-352	-17	0.0
14231_14747	14231	14747	9,064	218	10.8	9,059	254	11.4	-5	36	0.6
14613_14747	14613	14747	3,353	124	31.4	2,767	47	31.4	-586	-77	0.0
14738_14747	14738	14747	5,035	126	20.7	4,736	104	21.1	-299	-22	0.4
14245_14774	14245	14774	730	21	23.4	741	22	23.4	11	1	0.0

Road	A node	B node	Without the Proposed Scheme			With the Proposed Scheme			Change in AADT	Change in HDVs	Change in Speed
			AADT	HDVs	Speed (kph) ¹	AADT	HDVs	Speed (kph) ¹			
14738_14774	14738	14774	982	44	24.3	876	56	24.3	-106	12	0.0
14154_14803	14154	14803	13,470	108	29.0	13,397	107	29.0	-73	-1	0.0
14233_14803	14233	14803	412	160	23.6	434	160	23.6	22	0	0.0
14803_14807	14803	14807	4,230	89	25.0	4,226	89	25.0	-4	0	0.0
14261_14813	14261	14813	22,772	1,936	21.3	22,685	1,951	21.2	-87	15	-0.1
14264_14813	14264	14813	1,673	197	3.3	1,674	186	3.3	1	-12	0.0
14400_14813	14400	14813	22,749	1,706	1.1	22,567	1,715	1.0	-182	9	0.0
14535_14813	14535	14813	616	7	5.9	584	7	5.9	-32	0	0.0
14163_14818	14163	14818	6,950	320	29.6	7,293	314	29.6	343	-6	0.0
14230_14818	14230	14818	2,760	356	24.2	2,784	354	24.2	24	-2	0.0
14817_14818	14817	14818	783	31	14.9	783	31	14.9	0	0	0.0
14155_14950	14155	14950	18,960	1,725	15.1	18,630	1,733	15.1	-330	7	0.0
14157_14950	14157	14950	10,500	2,195	22.9	10,236	2,191	22.9	-264	-4	0.0
14158_14950	14158	14950	183	181	13.6	183	180	13.6	0	-1	0.0
14136_14954	14136	14954	5,359	456	35.0	0	0	35.0	-5,359	-456	0.0
14236_14954	14236	14954	8,591	404	35.0	0	0	35.0	-8,591	-404	0.0
14261_70001	14261	70001	26,439	1,930	8.0	26,272	1,944	7.9	-167	14	0.0
70019_70030	70019	70030	31,235	1,374	34.9	31,132	1,370	34.9	-103	-5	-0.1
66241_70036	66241	70036	57,021	2,851	62.8	57,078	2,854	62.8	57	3	0.0
70030_70107	70030	70107	0	0	24.0	0	0	24.0	0	0	0.0

Road	A node	B node	Without the Proposed Scheme			With the Proposed Scheme			Change in AADT	Change in HDVs	Change in Speed
			AADT	HDVs	Speed (kph) ¹	AADT	HDVs	Speed (kph) ¹			
66871_70232	66871	70232	11,163	380	62.3	11,181	380	62.3	18	1	0.0
70001_70241	70001	70241	6,317	859	30.7	6,305	864	30.7	-12	5	0.0
70023_70250	70023	70250	2,736	788	37.0	2,742	787	37.0	6	-1	0.0
70241_70250	70241	70250	6,221	765	27.3	6,209	764	27.3	-12	-1	0.0
70250_70251	70250	70251	2,585	8	19.9	2,544	8	19.9	-41	0	0.0
70030_70253	70030	70253	32,262	1,613	32.5	32,144	1,607	32.5	-118	-6	0.0
70113_70253	70113	70253	36,981	1,405	27.3	36,836	1,437	27.2	-145	31	-0.1
70121_70253	70121	70253	210	210	14.5	210	210	14.5	0	0	0.0
14523_70312	14523	70312	1,015	15	22.0	998	15	22.0	-17	0	0.0
70090_70326	70090	70326	40,764	2,527	110.5	40,710	2,565	110.5	-54	37	0.0
70213_70345	70213	70345	27,389	740	61.6	27,333	738	61.6	-56	-2	0.0
70436_70437	70436	70437	0	0	25.0	0	0	25.0	0	0	0.0
70436_70440	70436	70440	0	0	24.0	0	0	24.0	0	0	0.0
70439_70440	70439	70440	0	0	25.0	0	0	25.0	0	0	0.0
70310_70441	70310	70441	5,115	61	23.7	5,139	62	23.7	24	0	0.0
70440_70441	70440	70441	0	0	17.0	0	0	17.0	0	0	0.0
70310_70442	70310	70442	31,126	1,338	44.1	30,997	1,364	44.1	-129	25	0.0
70441_70443	70441	70443	5,115	61	24.9	5,139	62	24.9	24	0	0.0
70442_70443	70442	70443	0	0	23.0	0	0	23.0	0	0	0.0
70113_70445	70113	70445	0	0	19.0	0	0	19.0	0	0	0.0

Road	A node	B node	Without the Proposed Scheme			With the Proposed Scheme			Change in AADT	Change in HDVs	Change in Speed
			AADT	HDVs	Speed (kph) ¹	AADT	HDVs	Speed (kph) ¹			
70444_70445	70444	70445	1,132	0	23.0	1,133	0	23.0	1	0	0.0
70445_70446	70445	70446	0	0	19.0	0	0	19.0	0	0	0.0
70446_70447	70446	70447	746	7	25.0	744	7	25.0	-2	0	0.0
70116_70448	70116	70448	1,667	18	24.0	1,658	18	24.0	-9	0	0.0
70446_70448	70446	70448	0	0	24.0	0	0	24.0	0	0	0.0
70448_70449	70448	70449	11	11	22.5	11	11	22.5	0	0	0.0
70116_70583	70116	70583	836	210	17.0	841	210	17.0	5	0	0.0
70030_70693	70030	70693	1,592	228	25.0	1,596	228	25.0	4	1	0.0
70116_70693	70116	70693	2,158	229	19.9	2,154	228	19.9	-4	0	0.0
70693_70694	70693	70694	0	0	24.0	0	0	24.0	0	0	0.0
70019_70695	70019	70695	1,495	345	29.0	1,487	345	29.0	-8	0	0.0
70241_70695	70241	70695	81	81	23.0	81	81	23.0	0	0	0.0
70694_70695	70694	70695	6,539	399	30.9	6,548	399	30.9	9	1	0.0
70019_70696	70019	70696	5,351	449	29.8	5,375	452	29.8	24	2	0.0
70019_70697	70019	70697	22,432	1,189	35.0	22,280	1,203	35.0	-152	14	0.0
70696_70698	70696	70698	0	0	25.0	0	0	25.0	0	0	0.0
70697_70698	70697	70698	0	0	23.0	0	0	23.0	0	0	0.0
14265_70699	14265	70699	3,791	0	19.3	3,826	0	19.3	35	0	0.0
70698_70699	70698	70699	0	0	24.0	0	0	24.0	0	0	0.0
70001_70700	70001	70700	26,352	1,212	34.8	26,152	1,203	34.8	-200	-9	0.0

Road	A node	B node	Without the Proposed Scheme			With the Proposed Scheme			Change in AADT	Change in HDVs	Change in Speed
			AADT	HDVs	Speed (kph) ¹	AADT	HDVs	Speed (kph) ¹			
70697_70700	70697	70700	23,489	1,198	35.0	23,336	1,213	35.0	-153	16	0.0
70699_70700	70699	70700	0	0	18.0	0	0	18.0	0	0	0.0
70347_70817	70347	70817	7,225	484	24.5	7,237	485	24.5	12	1	0.0
70326_70824	70326	70824	40,764	2,527	36.2	40,710	2,565	36.1	-54	37	-0.1
70822_70825	70822	70825	5,992	270	13.9	5,982	269	13.9	-10	0	0.0
70822_70827	70822	70827	23,467	1,807	37.7	23,402	1,825	37.7	-65	18	0.0
70213_70844	70213	70844	18,795	902	42.7	18,733	899	42.6	-62	-3	-0.1
70436_70846	70436	70846	6	0	14.0	6	0	14.0	0	0	0.0
70845_70846	70845	70846	14,241	1,111	24.3	14,174	1,134	24.2	-67	23	0.0

CFAo03 Construction Traffic Data - Test 2

Table 3: Traffic data used in the construction assessment

Road	A node	B node	Without the Proposed Scheme			With the Proposed Scheme			Change in AADT	Change in HDVs	Change in Speed
			AADT	HDVs	Speed (kph) [±]	AADT	HDVs	Speed (kph) [±]			
12003_12002	12003	12002	2,980	39	20.4	3,214	39	20.3	234	0	-0.1
12048_12003	12048	12003	5,313	207	21.4	5,507	154	21.4	194	-53	0.0
12387_12004	12387	12004	2,092	222	23.7	1,901	222	23.8	-191	1	0.1
12389_12004	12389	12004	4,839	266	23.2	4,842	266	23.2	3	0	0.0
12395_12002	12395	12002	11,197	1,668	29.8	11,335	1,655	29.8	138	-13	0.0
12395_12003	12395	12003	2,221	24	27.6	2,072	25	27.6	-149	0	0.0
12395_12389	12395	12389	8,488	1,316	13.7	8,934	1,438	13.5	446	123	-0.2
13264_13263	13264	13263	2,363	24	14.8	2,367	24	14.8	4	0	0.0
13280_12389	13280	12389	215	0	13.7	201	0	13.7	-14	0	0.0
13282_12002	13282	12002	13,341	1,334	15.0	13,591	1,522	14.9	250	188	-0.1
13282_13281	13282	13281	953	15	23.5	937	16	23.5	-16	1	0.0
13339_13282	13339	13282	11,949	1,195	33.0	12,107	1,392	33.0	158	197	0.0
13472_13281	13472	13281	4,419	80	24.2	4,082	65	24.2	-337	-14	0.0
13514_13513	13514	13513	1,832	117	13.1	1,839	118	13.1	7	0	0.0
14094_14091	14094	14091	2,599	117	23.0	2,563	115	23.0	-36	-2	0.0
14095_14094	14095	14094	3,609	292	23.0	3,588	294	23.0	-21	2	0.0

Road	A node	B node	Without the Proposed Scheme			With the Proposed Scheme			Change in AADT	Change in HDVs	Change in Speed
			AADT	HDVs	Speed (kph) ¹	AADT	HDVs	Speed (kph) ¹			
14098_14096	14098	14096	0	0	21.5	0	0	21.5	0	0	0.0
14105_13281	14105	13281	749	1	23.1	772	1	23.1	23	0	0.0
14119_13514	14119	13514	1,831	117	25.0	1,839	118	25.0	8	1	0.0
14119_14088	14119	14088	1,066	42	22.8	1,010	42	22.7	-56	1	-0.1
14119_14105	14119	14105	2,276	36	25.3	2,299	46	25.2	23	10	0.0
14156_14149	14156	14149	2,774	236	26.3	2,773	236	26.4	-1	0	0.1
14156_14155	14156	14155	3,677	316	1.8	3,683	317	1.8	6	1	0.0
14158_14157	14158	14157	15,794	758	11.1	15,883	762	11.1	89	4	0.0
14160_14016	14160	14016	7,367	449	23.4	7,822	485	23.1	455	36	-0.3
14161_14016	14161	14016	8,378	461	21.2	8,571	463	21.2	193	2	0.0
14161_14140	14161	14140	7,163	688	9.0	7,219	729	8.1	56	41	-0.9
14162_14017	14162	14017	698	122	23.3	712	125	23.4	14	3	0.1
14163_14017	14163	14017	2,923	117	24.0	2,886	118	24.0	-37	1	0.0
14167_14156	14167	14156	956	108	22.7	920	108	22.7	-36	0	0.0
14169_14095	14169	14095	23,022	1,911	11.4	22,793	1,915	11.6	-229	4	0.1
14170_14159	14170	14159	5,820	308	16.4	5,741	310	16.6	-79	2	0.2
14179_14159	14179	14159	11,143	702	20.8	9,719	544	21.0	-1,424	-158	0.2
14182_14163	14182	14163	7,914	293	20.2	7,966	287	19.9	52	-6	-0.3
14182_14181	14182	14181	11,657	734	28.7	11,566	740	28.7	-91	6	0.0
14188_14175	14188	14175	18,152	1,380	21.3	17,868	1,412	21.4	-284	32	0.0

Road	A node	B node	Without the Proposed Scheme			With the Proposed Scheme			Change in AADT	Change in HDVs	Change in Speed
			AADT	HDVs	Speed (kph) ¹	AADT	HDVs	Speed (kph) ¹			
14188_14187	14188	14187	20,664	1,674	7.9	20,544	1,685	7.9	-120	11	0.0
14198_14158	14198	14158	8,392	713	3.8	8,373	703	3.9	-19	-10	0.1
14198_14179	14198	14179	9,369	675	29.9	7,856	518	29.9	-1,513	-156	0.1
14200_14187	14200	14187	16,658	1,366	18.8	16,420	1,396	18.8	-238	30	0.1
14205_14095	14205	14095	23,547	1,978	8.6	23,540	2,001	8.6	-7	23	0.0
14205_14149	14205	14149	3,200	83	22.1	3,240	81	22.1	40	-2	0.0
14206_14175	14206	14175	1,228	146	3.1	1,257	145	3.1	29	-2	0.0
14206_14176	14206	14176	1,744	58	11.7	1,746	56	11.6	2	-2	0.0
14207_14187	14207	14187	2,122	45	7.7	2,080	46	7.7	-42	1	0.0
14207_14206	14207	14206	570	3	22.3	583	4	22.3	13	1	0.0
14210_14182	14210	14182	8,011	409	18.9	8,062	411	18.9	51	3	0.0
14213_14179	14213	14179	2,153	15	18.6	2,278	14	18.9	125	-1	0.3
14216_14213	14216	14213	2,921	67	19.5	3,047	67	19.5	126	0	0.0
14224_14159	14224	14159	4,141	306	12.5	3,940	299	12.6	-201	-7	0.2
14224_14216	14224	14216	5,987	90	24.3	5,455	87	24.3	-532	-3	0.0
14225_14213	14225	14213	1,521	56	14.6	1,521	56	14.6	0	0	0.0
14231_14158	14231	14158	2,724	93	8.5	2,713	87	8.6	-11	-6	0.1
14231_14216	14231	14216	4,303	133	24.5	4,946	134	24.5	643	0	0.0
14232_14215	14232	14215	3,620	243	41.0	2,852	231	41.0	-768	-12	0.0
14232_14217	14232	14217	8,982	512	21.8	8,597	413	23.1	-385	-99	1.3

Road	A node	B node	Without the Proposed Scheme			With the Proposed Scheme			Change in AADT	Change in HDVs	Change in Speed
			AADT	HDVs	Speed (kph) ¹	AADT	HDVs	Speed (kph) ¹			
14233_14155	14233	14155	14,676	1,644	13.0	14,442	1,646	13.2	-234	3	0.2
14233_14205	14233	14205	23,547	1,978	38.0	23,540	2,001	38.0	-7	23	0.0
14242_14178	14242	14178	7,632	550	30.6	7,604	547	30.6	-28	-2	0.0
14244_14242	14244	14242	1,474	29	21.5	1,470	26	21.5	-4	-3	0.0
14245_13339	14245	13339	9,693	1,212	32.0	10,235	1,402	32.0	542	191	0.0
14245_14105	14245	14105	5,530	11	29.1	5,465	11	29.1	-65	0	0.0
14245_14157	14245	14157	7,696	1,701	12.7	7,739	1,718	12.5	43	17	-0.2
14247_14170	14247	14170	2,082	398	2.3	2,148	406	2.4	66	8	0.1
14250_14232	14250	14232	6,635	332	17.5	7,439	402	17.5	804	70	0.0
14257_14149	14257	14149	2,706	208	30.3	2,751	209	30.3	45	1	0.0
14257_14256	14257	14256	1,382	86	24.0	1,386	85	24.0	4	-1	0.0
14265_14261	14265	14261	0	0	18.2	0	0	18.1	0	0	0.0
14265_14264	14265	14264	0	0	9.2	0	0	9.2	0	0	0.0
14268_14264	14268	14264	6,401	179	7.5	6,461	174	7.4	60	-5	-0.1
14269_14268	14269	14268	6,401	179	28.3	6,461	174	28.3	60	-5	0.0
14270_14269	14270	14269	0	0	20.4	0	0	20.4	0	0	0.0
14271_14200	14271	14200	793	127	10.2	815	129	10.2	22	2	0.0
14272_14271	14272	14271	3,652	150	28.9	3,666	154	28.9	14	4	0.0
14273_14162	14273	14162	2,133	237	22.1	2,246	243	22.0	113	6	-0.1
14273_14170	14273	14170	9,427	471	1.7	9,414	480	1.7	-13	9	0.0

Road	A node	B node	Without the Proposed Scheme			With the Proposed Scheme			Change in AADT	Change in HDVs	Change in Speed
			AADT	HDVs	Speed (kph) ¹	AADT	HDVs	Speed (kph) ¹			
14273_14181	14273	14181	40	0	23.8	29	0	23.8	-11	0	0.0
14274_14269	14274	14269	6,401	179	30.2	6,461	174	30.2	60	-5	0.0
14274_14270	14274	14270	0	0	24.2	0	0	24.2	0	0	0.0
14279_14186	14279	14186	7,043	148	16.0	7,204	151	16.0	161	3	0.0
14279_14277	14279	14277	10,302	175	28.3	10,350	176	28.3	48	1	0.0
14400_14268	14400	14268	425	0	19.9	412	0	19.9	-13	0	0.0
14401_14270	14401	14270	476	0	20.4	482	0	20.4	6	0	0.0
14401_14400	14401	14400	22,743	1,706	22.4	22,692	1,725	22.4	-51	19	0.0
14402_14277	14402	14277	2,959	145	21.7	3,051	146	21.7	92	1	0.0
14402_14401	14402	14401	22,742	1,706	22.4	22,690	1,724	22.4	-52	19	0.0
14403_14200	14403	14200	16,378	1,703	17.1	16,120	1,725	17.2	-258	22	0.0
14403_14279	14403	14279	1,041	0	21.4	1,070	0	21.4	29	0	0.0
14403_14402	14403	14402	17,574	1,705	23.2	17,542	1,719	23.2	-32	14	0.0
14404_14187	14404	14187	2,979	42	2.2	2,975	45	2.2	-4	3	0.0
14404_14271	14404	14271	2,767	105	23.7	2,695	102	23.7	-72	-3	0.0
14406_14175	14406	14175	1,699	61	12.0	1,694	61	12.1	-5	0	0.0
14407_14404	14407	14404	253	37	22.1	255	37	22.1	2	0	0.0
14535_14523	14535	14523	1,629	42	23.9	1,601	42	23.9	-28	-1	0.0
14537_14523	14537	14523	0	0	23.1	0	0	23.1	0	0	0.0
14558_14200	14558	14200	3,513	4	7.9	3,490	3	7.9	-23	0	0.0

Road	A node	B node	Without the Proposed Scheme			With the Proposed Scheme			Change in AADT	Change in HDVs	Change in Speed
			AADT	HDVs	Speed (kph) ¹	AADT	HDVs	Speed (kph) ¹			
14558_14535	14558	14535	0	0	23.1	0	0	23.1	0	0	0.0
14558_14537	14558	14537	393	30	24.2	400	30	24.2	7	0	0.0
14587_14096	14587	14096	130	129	23.2	129	129	23.2	-1	0	0.0
14587_14169	14587	14169	1,979	267	3.9	1,981	261	4.0	2	-6	0.0
14588_14119	14588	14119	2,086	140	18.3	2,109	141	18.3	23	2	0.0
14589_14154	14589	14154	8,226	280	24.5	8,236	280	24.5	10	0	0.0
14589_14157	14589	14157	4,110	288	3.7	4,162	287	3.6	52	-1	-0.1
14589_14588	14589	14588	905	45	22.0	948	46	22.0	43	1	0.0
14603_14257	14603	14257	664	97	31.3	692	97	31.3	28	0	0.0
14611_14215	14611	14215	5,585	363	37.3	4,253	187	37.3	-1,332	-176	0.0
14611_14224	14611	14224	4,330	247	36.1	3,562	235	36.3	-768	-12	0.2
14614_14236	14614	14236	4,995	250	12.7	333	139	13.6	-4,662	-111	0.9
14614_14250	14614	14250	11,951	621	14.9	12,167	596	14.5	216	-25	-0.5
14627_14250	14627	14250	11,868	427	25.3	8,105	389	17.8	-3,763	-38	-7.5
14650_14136	14650	14136	5,477	444	4.4	4,157	420	2.6	-1,320	-24	-1.8
14650_14137	14650	14137	7,993	312	7.5	7,254	319	7.7	-739	7	0.2
14718_14137	14718	14137	5,568	278	4.4	6,700	328	3.3	1,132	50	-1.1
14727_14169	14727	14169	20,509	1,497	24.3	20,277	1,521	24.3	-232	24	0.1
14727_14175	14727	14175	19,371	1,588	21.7	19,345	1,606	21.7	-26	17	0.0
14738_12390	14738	12390	1,434	37	25.0	1,348	38	25.0	-86	0	0.0

Road	A node	B node	Without the Proposed Scheme			With the Proposed Scheme			Change in AADT	Change in HDVs	Change in Speed
			AADT	HDVs	Speed (kph) ¹	AADT	HDVs	Speed (kph) ¹			
14738_13339	14738	13339	4,954	79	18.6	4,565	82	18.5	-389	3	-0.2
14747_14231	14747	14231	7,012	231	9.1	7,676	230	8.2	664	-1	-0.9
14747_14613	14747	14613	4,777	134	29.8	5,186	130	29.7	409	-4	-0.1
14747_14738	14747	14738	5,971	107	21.0	5,557	106	21.0	-414	-2	0.1
14760_14137	14760	14137	10,360	1,285	6.2	9,413	1,045	6.0	-947	-240	-0.2
14774_14158	14774	14158	982	44	18.7	1,060	55	18.7	78	11	0.0
14774_14738	14774	14738	730	21	24.3	737	22	24.3	7	1	0.0
14803_14154	14803	14154	1,286	175	22.2	1,285	173	22.2	-1	-1	0.0
14803_14233	14803	14233	11,846	47	14.9	11,889	48	14.8	43	0	-0.1
14807_14803	14807	14803	3,480	42	14.0	3,480	42	14.0	0	0	0.0
14813_14261	14813	14261	26,439	1,930	35.1	26,398	1,953	35.1	-41	23	0.0
14813_14264	14813	14264	954	0	6.4	1,012	0	6.4	58	0	0.0
14813_14400	14813	14400	21,179	1,864	24.7	21,011	1,891	24.8	-168	27	0.0
14813_14535	14813	14535	1,629	42	23.2	1,601	42	23.2	-28	-1	0.0
14818_14163	14818	14163	2,663	325	11.2	2,625	326	11.2	-38	1	0.0
14818_14230	14818	14230	6,805	340	13.6	7,124	335	12.9	319	-5	-0.8
14818_14817	14818	14817	1,025	38	25.0	1,023	38	25.0	-2	0	0.0
14950_14155	14950	14155	10,682	2,371	3.6	10,617	2,389	3.6	-65	17	0.0
14950_14157	14950	14157	18,990	1,728	7.4	18,740	1,743	7.5	-250	15	0.1
14954_14136	14954	14136	8,591	404	2.5	916	157	1.4	-7,675	-247	-1.1

Road	A node	B node	Without the Proposed Scheme			With the Proposed Scheme			Change in AADT	Change in HDVs	Change in Speed
			AADT	HDVs	Speed (kph) ¹	AADT	HDVs	Speed (kph) ¹			
14954_14236	14954	14236	5,359	456	24.8	3,731	425	25.7	-1,628	-30	0.8
70001_14261	70001	14261	22,772	1,936	36.0	22,667	1,949	36.0	-105	14	0.0
70030_70019	70030	70019	23,731	1,187	39.5	23,621	1,205	39.5	-110	18	0.0
70107_70030	70107	70030	346	5	16.8	347	5	16.8	1	0	0.0
70241_70001	70241	70001	5,592	856	2.5	5,585	855	2.5	-7	-1	0.0
70250_70023	70250	70023	3,857	756	22.2	3,892	759	22.2	35	3	0.0
70250_70241	70250	70241	5,592	856	34.6	5,585	855	34.6	-7	-1	0.0
70251_70250	70251	70250	2,967	56	19.8	2,963	56	19.8	-4	0	0.0
70253_70030	70253	70030	23,531	1,412	29.9	23,426	1,452	29.9	-105	41	0.0
70253_70121	70253	70121	871	259	25.0	868	259	25.0	-3	0	0.0
70253_70213	70253	70213	46,183	1,663	57.6	46,186	1,663	57.5	3	0	-0.1
70312_14523	70312	14523	356	7	24.4	394	7	24.4	38	0	0.0
70319_66242	70319	66242	56,048	2,802	46.6	56,079	2,804	46.6	31	2	0.0
70325_70092	70325	70092	45,314	1,994	108.5	45,356	1,996	108.5	42	2	0.0
70339_70310	70339	70310	38,299	1,417	58.2	38,219	1,452	58.2	-80	35	0.0
70344_70339	70344	70339	24,050	313	38.0	24,023	312	38.1	-27	0	0.1
70347_70328	70347	70328	6,932	347	62.7	6,905	345	62.7	-27	-1	0.0
70437_70436	70437	70436	6	0	23.0	6	0	23.0	0	0	0.0
70440_70436	70440	70436	0	0	24.0	0	0	24.0	0	0	0.0
70440_70439	70440	70439	0	0	20.5	0	0	20.5	0	0	0.0

Road	A node	B node	Without the Proposed Scheme			With the Proposed Scheme			Change in AADT	Change in HDVs	Change in Speed
			AADT	HDVs	Speed (kph) ¹	AADT	HDVs	Speed (kph) ¹			
70441_70310	70441	70310	0	0	18.0	0	0	18.0	0	0	0.0
70441_70440	70441	70440	0	0	18.0	0	0	18.0	0	0	0.0
70442_70113	70442	70113	34,013	1,327	39.9	33,905	1,356	39.9	-108	30	0.0
70443_70441	70443	70441	0	0	22.0	0	0	22.0	0	0	0.0
70443_70442	70443	70442	2,044	0	20.3	2,042	0	20.3	-2	0	0.0
70445_70113	70445	70113	2,112	70	13.4	2,111	70	13.5	-1	0	0.0
70445_70444	70445	70444	0	0	23.0	0	0	23.0	0	0	0.0
70446_70445	70446	70445	980	69	19.0	982	69	19.0	2	0	0.0
70447_70446	70447	70446	69	69	23.0	69	69	23.0	0	0	0.0
70448_70116	70448	70116	0	0	18.0	0	0	18.0	0	0	0.0
70448_70446	70448	70446	1,657	7	19.9	1,663	7	19.9	6	0	0.0
70449_70448	70449	70448	0	0	23.0	0	0	23.0	0	0	0.0
70583_70116	70583	70116	3,069	227	23.9	3,057	229	23.9	-12	2	0.0
70693_70030	70693	70030	2,159	229	8.8	2,144	227	8.8	-15	-2	0.0
70693_70116	70693	70116	1,592	228	19.9	1,598	229	19.9	6	1	0.0
70694_70693	70694	70693	0	0	24.0	0	0	24.0	0	0	0.0
70695_70019	70695	70019	6,635	491	8.0	6,621	490	8.0	-14	-1	0.0
70695_70241	70695	70241	0	0	22.0	0	0	22.0	0	0	0.0
70695_70694	70695	70694	1,495	345	31.0	1,513	345	31.0	18	0	0.0
70696_70019	70696	70019	5,824	483	14.7	5,832	484	14.7	8	1	0.0

Road	A node	B node	Without the Proposed Scheme			With the Proposed Scheme			Change in AADT	Change in HDVs	Change in Speed
			AADT	HDVs	Speed (kph) ¹	AADT	HDVs	Speed (kph) ¹			
70697_70019	70697	70019	23,649	1,206	21.9	23,667	1,231	21.8	18	25	-0.1
70698_70696	70698	70696	0	0	23.0	0	0	23.0	0	0	0.0
70698_70697	70698	70697	0	0	17.5	0	0	17.5	0	0	0.0
70699_14265	70699	14265	0	0	23.8	0	0	23.8	0	0	0.0
70699_70698	70699	70698	3,795	0	20.5	3,852	0	20.4	57	0	0.0
70700_70001	70700	70001	23,490	1,198	24.4	23,334	1,237	24.4	-156	39	0.0
70700_70697	70700	70697	26,351	1,212	34.9	26,274	1,235	34.9	-77	23	0.0
70700_70699	70700	70699	0	0	20.0	0	0	20.0	0	0	0.0
70819_70328	70819	70328	9,103	865	22.1	9,127	858	22.1	24	-7	0.0
70819_70816	70819	70816	27,024	2,108	36.9	26,998	2,106	36.9	-26	-2	0.0
70820_70325	70820	70325	19,059	762	97.0	19,079	801	96.8	20	39	-0.1
70821_70325	70821	70325	26,255	1,208	69.3	26,277	1,209	69.2	22	1	-0.1
70823_70821	70823	70821	5,232	78	15.3	5,226	84	15.3	-6	5	0.0
70824_70819	70824	70819	27,753	1,721	22.6	27,762	1,721	22.6	9	1	0.0
70824_70822	70824	70822	27,797	2,029	22.6	27,734	2,080	22.6	-63	51	0.0
70825_70820	70825	70820	19,059	762	42.0	19,079	801	42.0	20	39	0.0
70826_70819	70826	70819	12,709	1,093	10.7	12,694	1,092	10.7	-15	-1	0.0
70845_70843	70845	70843	1,974	87	20.0	1,967	89	20.0	-7	2	0.0
70846_70339	70846	70339	14,250	1,112	51.0	14,196	1,136	50.9	-54	24	-0.1
12002_12003	12002	12003	4,364	214	20.1	4,315	211	20.1	-49	-2	0.1

Road	A node	B node	Without the Proposed Scheme			With the Proposed Scheme			Change in AADT	Change in HDVs	Change in Speed
			AADT	HDVs	Speed (kph) ¹	AADT	HDVs	Speed (kph) ¹			
12003_12048	12003	12048	6,585	237	18.4	6,387	236	18.5	-198	-1	0.1
12004_12387	12004	12387	4,840	266	9.3	4,842	266	9.3	2	0	0.0
12004_12389	12004	12389	1,448	222	6.9	1,441	222	6.9	-7	0	0.0
12002_12395	12002	12395	7,293	1,094	15.1	7,607	1,286	15.0	314	192	0.0
12003_12395	12003	12395	2,333	168	4.5	2,293	115	4.6	-40	-53	0.1
12389_12395	12389	12395	12,188	1,694	15.3	12,304	1,686	15.2	116	-8	-0.1
13263_13264	13263	13264	1,810	31	25.0	1,766	30	25.0	-44	-1	0.0
12389_13280	12389	13280	0	0	25.0	0	0	25.0	0	0	0.0
12002_13282	12002	13282	15,467	1,717	24.0	15,948	1,706	23.9	481	-10	-0.1
13281_13282	13281	13282	4,892	78	14.7	4,499	67	14.6	-393	-11	-0.1
13282_13339	13282	13339	17,584	1,741	23.9	17,532	1,718	23.5	-52	-23	-0.3
13281_13472	13281	13472	1,229	15	12.7	1,292	16	12.6	63	1	0.0
13513_13514	13513	13514	1,456	50	25.0	1,507	60	25.0	51	11	0.0
14092_14094	14092	14094	362	70	22.5	368	70	22.5	6	0	0.0
14096_14097	14096	14097	130	129	24.2	129	129	24.2	-1	0	0.0
14096_14098	14096	14098	0	0	21.6	0	0	21.6	0	0	0.0
13281_14105	13281	14105	0	0	23.0	0	0	23.0	0	0	0.0
13514_14119	13514	14119	1,456	50	19.7	1,507	60	19.6	51	11	0.0
14088_14119	14088	14119	2,864	34	26.1	2,965	33	26.1	101	-2	0.0
14105_14119	14105	14119	5,530	11	20.9	5,465	11	20.8	-65	0	-0.1

Road	A node	B node	Without the Proposed Scheme			With the Proposed Scheme			Change in AADT	Change in HDVs	Change in Speed
			AADT	HDVs	Speed (kph) ¹	AADT	HDVs	Speed (kph) ¹			
14149_14156	14149	14156	2,660	207	28.0	2,706	208	28.0	46	1	0.0
14155_14156	14155	14156	2,868	327	30.2	2,869	330	30.2	1	3	0.0
14155_14158	14155	14158	146	146	12.8	146	146	12.8	0	0	0.0
14157_14158	14157	14158	14,424	736	12.8	13,817	553	11.9	-607	-183	-0.9
14016_14160	14016	14160	8,445	524	12.8	8,639	527	12.7	194	3	0.0
14016_14161	14016	14161	9,224	452	18.9	9,603	490	18.8	379	38	-0.1
14140_14161	14140	14161	8,470	652	17.1	8,685	651	17.0	215	-1	-0.1
14017_14162	14017	14162	86	85	2.5	86	85	2.4	0	0	0.0
14017_14163	14017	14163	1,772	167	13.5	1,864	170	13.5	92	3	0.0
14149_14167	14149	14167	2,745	66	27.6	2,731	66	27.6	-14	0	0.0
14156_14167	14156	14167	92	90	24.5	93	91	24.5	1	1	0.0
14095_14169	14095	14169	22,339	1,787	19.8	22,306	1,807	19.9	-33	20	0.2
14159_14170	14159	14170	1,967	250	11.9	1,972	241	11.8	5	-9	0.0
14159_14179	14159	14179	7,434	632	30.8	7,350	625	30.8	-84	-7	0.0
14163_14182	14163	14182	3,341	314	24.6	3,450	314	24.6	109	0	-0.1
14178_14182	14178	14182	13,174	540	14.3	13,120	538	13.9	-54	-2	-0.4
14175_14188	14175	14188	20,664	1,674	32.3	20,544	1,685	32.3	-120	11	0.0
14187_14188	14187	14188	18,151	1,379	13.8	17,867	1,411	13.8	-284	32	0.0
14158_14198	14158	14198	9,866	691	24.3	8,395	529	25.8	-1,471	-162	1.6
14179_14198	14179	14198	7,276	626	28.5	7,192	619	28.5	-84	-7	0.0

Road	A node	B node	Without the Proposed Scheme			With the Proposed Scheme			Change in AADT	Change in HDVs	Change in Speed
			AADT	HDVs	Speed (kph) ¹	AADT	HDVs	Speed (kph) ¹			
14187_14200	14187	14200	17,765	1,599	24.4	17,739	1,614	24.4	-26	15	0.1
14095_14205	14095	14205	19,191	1,746	34.4	19,013	1,768	34.4	-178	22	0.0
14175_14206	14175	14206	1,418	60	24.2	1,435	59	24.2	17	-1	0.0
14176_14206	14176	14206	3,290	188	23.7	3,252	189	23.7	-38	1	0.0
14187_14207	14187	14207	4,415	71	23.2	4,428	71	23.2	13	0	0.0
14206_14207	14206	14207	2,757	44	24.4	2,757	47	24.4	0	3	0.0
14182_14210	14182	14210	5,067	233	30.6	5,197	234	30.5	130	1	0.0
14179_14213	14179	14213	1,610	11	22.9	1,656	12	23.0	46	0	0.0
14213_14216	14213	14216	1,857	54	8.8	1,906	53	8.8	49	0	-0.1
14159_14224	14159	14224	9,754	429	30.4	7,972	255	30.1	-1,782	-174	-0.3
14216_14224	14216	14224	1,630	82	21.4	2,114	82	21.5	484	1	0.1
14213_14225	14213	14225	2,042	67	25.0	2,040	67	25.0	-2	0	0.0
14158_14231	14158	14231	1,257	83	31.2	2,242	81	31.2	985	-2	0.0
14216_14231	14216	14231	7,597	129	22.5	7,146	129	22.4	-451	-1	-0.1
14215_14232	14215	14232	4,357	349	39.3	3,023	172	39.4	-1,334	-176	0.1
14217_14232	14217	14232	2,138	107	24.0	1,516	97	24.0	-622	-10	0.0
14155_14233	14155	14233	7,481	2,102	32.5	7,438	2,112	32.5	-43	10	0.0
14205_14233	14205	14233	14,676	1,644	38.0	14,442	1,646	38.0	-234	3	0.0
14217_14236	14217	14236	8,769	377	8.8	7,763	225	8.3	-1,006	-152	-0.4
14181_14242	14181	14242	7,581	576	30.9	7,562	575	30.9	-19	-1	0.0

Road	A node	B node	Without the Proposed Scheme			With the Proposed Scheme			Change in AADT	Change in HDVs	Change in Speed
			AADT	HDVs	Speed (kph) ¹	AADT	HDVs	Speed (kph) ¹			
14242_14244	14242	14244	1,421	53	23.1	1,425	53	23.1	4	0	0.0
13339_14245	13339	14245	13,312	1,677	26.2	13,265	1,671	26.2	-47	-6	0.0
14105_14245	14105	14245	1,526	37	8.7	1,527	46	8.7	1	9	0.0
14157_14245	14157	14245	10,729	1,223	27.6	11,284	1,422	27.5	555	199	-0.1
14170_14247	14170	14247	5,305	531	30.8	5,353	530	30.8	48	-1	0.0
14149_14257	14149	14257	3,308	261	29.6	3,363	259	29.6	55	-2	0.0
14256_14257	14256	14257	3,352	104	20.2	3,365	104	20.2	13	0	0.0
14261_14265	14261	14265	0	0	21.1	0	0	21.1	0	0	0.0
14264_14265	14264	14265	3,791	0	24.1	3,847	0	24.1	56	0	0.0
14264_14268	14264	14268	2,292	7	29.8	2,353	7	29.8	61	0	0.0
14268_14269	14268	14269	2,286	7	28.9	2,311	7	28.9	25	0	0.0
14269_14270	14269	14270	0	0	21.1	0	0	21.1	0	0	0.0
14200_14271	14200	14271	2,844	284	20.5	2,799	285	20.5	-45	1	0.0
14271_14272	14271	14272	5,453	333	19.4	5,337	331	19.4	-116	-2	0.0
14162_14273	14162	14273	4,721	293	31.0	4,795	297	31.0	74	5	0.0
14170_14273	14170	14273	1,961	231	26.6	2,073	236	26.6	112	5	0.0
14181_14273	14181	14273	3,857	143	23.4	3,777	144	23.4	-80	1	0.0
14269_14274	14269	14274	2,286	7	30.5	2,311	7	30.5	25	0	0.0
14270_14274	14270	14274	476	0	21.6	482	0	21.6	6	0	0.0
14186_14279	14186	14279	10,302	175	23.9	10,350	176	23.9	48	1	0.0

Road	A node	B node	Without the Proposed Scheme			With the Proposed Scheme			Change in AADT	Change in HDVs	Change in Speed
			AADT	HDVs	Speed (kph) ¹	AADT	HDVs	Speed (kph) ¹			
14277_14279	14277	14279	5,937	148	30.0	6,068	152	30.0	131	3	0.0
14268_14400	14268	14400	427	0	11.6	448	0	11.5	21	0	-0.1
14270_14401	14270	14401	0	0	7.2	0	0	7.2	0	0	0.0
14400_14401	14400	14401	21,191	1,865	24.4	21,071	1,896	24.4	-120	32	0.0
14277_14402	14277	14402	3,660	0	19.3	3,650	0	19.3	-10	0	0.0
14401_14402	14401	14402	20,540	1,869	14.2	20,408	1,898	11.9	-132	29	-2.3
14200_14403	14200	14403	19,034	1,694	16.2	19,044	1,714	16.1	10	20	-0.1
14279_14403	14279	14403	0	0	10.0	0	0	10.0	0	0	0.0
14402_14403	14402	14403	16,378	1,703	2.2	16,120	1,725	2.2	-258	22	0.0
14187_14404	14187	14404	2,664	77	22.6	2,597	78	22.6	-67	1	0.0
14271_14404	14271	14404	3,018	78	23.5	3,008	78	23.5	-10	0	0.0
14175_14406	14175	14406	1,279	40	24.4	1,292	43	24.4	13	3	0.0
14404_14407	14404	14407	189	46	22.5	190	46	22.5	1	0	0.0
14523_14535	14523	14535	616	7	24.0	614	7	24.0	-2	0	0.0
14523_14537	14523	14537	0	0	23.1	0	0	23.1	0	0	0.0
14200_14558	14200	14558	393	30	24.3	400	30	24.3	7	0	0.0
14535_14558	14535	14558	0	0	23.0	0	0	23.0	0	0	0.0
14537_14558	14537	14558	3,513	4	24.1	3,490	3	24.1	-23	0	0.0
14094_14587	14094	14587	714	199	22.9	731	199	22.9	17	0	0.0
14101_14587	14101	14587	651	173	24.3	644	168	24.3	-7	-5	0.0

Road	A node	B node	Without the Proposed Scheme			With the Proposed Scheme			Change in AADT	Change in HDVs	Change in Speed
			AADT	HDVs	Speed (kph) ¹	AADT	HDVs	Speed (kph) ¹			
14119_14588	14119	14588	6,764	41	23.2	6,897	41	23.2	133	1	0.0
14154_14589	14154	14589	3,956	289	30.8	3,980	287	30.8	24	-2	0.0
14157_14589	14157	14589	9,193	331	28.9	9,250	324	28.9	57	-7	0.0
14588_14589	14588	14589	147	0	20.8	173	0	20.8	26	0	0.0
14257_14603	14257	14603	3,328	163	31.3	3,377	162	31.3	49	-1	0.0
14215_14611	14215	14611	4,330	247	41.0	3,562	235	41.0	-768	-12	0.0
14224_14611	14224	14611	5,585	363	41.0	4,253	187	41.0	-1,332	-176	0.0
14236_14614	14236	14614	11,951	621	38.0	12,168	596	38.0	217	-25	0.0
14250_14614	14250	14614	4,995	250	38.0	333	139	38.0	-4,662	-111	0.0
14250_14627	14250	14627	11,155	535	38.0	11,429	503	38.0	274	-33	0.0
14136_14650	14136	14650	7,993	312	36.0	7,254	319	36.0	-739	7	0.0
14137_14650	14137	14650	5,477	444	36.0	4,157	420	36.0	-1,320	-24	0.0
14137_14718	14137	14718	5,189	353	15.6	5,735	338	15.2	546	-14	-0.4
14169_14727	14169	14727	22,623	1,697	25.8	22,596	1,717	25.8	-27	21	0.0
14175_14727	14175	14727	17,329	1,404	30.1	17,085	1,418	30.1	-244	14	0.1
12390_14738	12390	14738	475	20	23.6	529	31	23.5	54	11	0.0
13339_14738	13339	14738	4,768	110	22.1	4,580	92	22.1	-188	-18	0.0
14231_14747	14231	14747	9,064	218	10.8	9,555	220	10.9	491	2	0.1
14613_14747	14613	14747	3,353	124	31.4	3,596	140	31.4	243	16	0.0
14738_14747	14738	14747	5,035	126	20.7	4,932	104	20.9	-103	-22	0.2

Road	A node	B node	Without the Proposed Scheme			With the Proposed Scheme			Change in AADT	Change in HDVs	Change in Speed
			AADT	HDVs	Speed (kph) ¹	AADT	HDVs	Speed (kph) ¹			
14245_14774	14245	14774	730	21	23.4	737	22	23.4	7	1	0.0
14738_14774	14738	14774	982	44	24.3	1,060	55	24.3	78	11	0.0
14154_14803	14154	14803	13,470	108	29.0	13,496	108	29.0	26	0	0.0
14233_14803	14233	14803	412	160	23.6	427	160	23.6	15	0	0.0
14803_14807	14803	14807	4,230	89	25.0	4,228	89	25.0	-2	0	0.0
14261_14813	14261	14813	22,772	1,936	21.3	22,667	1,949	21.3	-105	14	0.0
14264_14813	14264	14813	1,673	197	3.3	1,673	192	3.3	0	-5	0.0
14400_14813	14400	14813	22,749	1,706	1.1	22,689	1,724	1.0	-60	18	0.0
14535_14813	14535	14813	616	7	5.9	614	7	5.9	-2	0	0.0
14163_14818	14163	14818	6,950	320	29.6	7,239	311	29.6	289	-8	0.0
14230_14818	14230	14818	2,760	356	24.2	2,750	355	24.2	-10	-1	0.0
14817_14818	14817	14818	783	31	14.9	783	31	14.9	0	0	0.0
14155_14950	14155	14950	18,960	1,725	15.1	18,710	1,740	15.1	-250	15	0.0
14157_14950	14157	14950	10,500	2,195	22.9	10,434	2,212	22.9	-66	18	0.0
14158_14950	14158	14950	183	181	13.6	183	180	13.6	0	-1	0.0
14136_14954	14136	14954	5,359	456	35.0	3,731	425	18.0	-1,628	-30	-17.0
14236_14954	14236	14954	8,591	404	35.0	916	157	19.2	-7,675	-247	-15.8
14261_70001	14261	70001	26,439	1,930	8.0	26,398	1,953	7.9	-41	23	0.0
70019_70030	70019	70030	31,235	1,374	34.9	31,251	1,375	34.9	16	1	-0.1
66241_70036	66241	70036	57,021	2,851	62.8	57,075	2,854	62.8	54	3	0.0

Road	A node	B node	Without the Proposed Scheme			With the Proposed Scheme			Change in AADT	Change in HDVs	Change in Speed
			AADT	HDVs	Speed (kph) ¹	AADT	HDVs	Speed (kph) ¹			
70030_70107	70030	70107	0	0	24.0	0	0	24.0	0	0	0.0
66871_70232	66871	70232	11,163	380	62.3	11,192	369	62.3	29	-10	0.0
70001_70241	70001	70241	6,317	859	30.7	6,305	864	30.7	-12	5	0.0
70023_70250	70023	70250	2,736	788	37.0	2,748	789	37.0	12	1	0.0
70241_70250	70241	70250	6,221	765	27.3	6,210	770	27.3	-11	5	0.0
70250_70251	70250	70251	2,585	8	19.9	2,559	8	19.9	-26	0	0.0
70030_70253	70030	70253	32,262	1,613	32.5	32,256	1,613	32.5	-6	0	0.0
70113_70253	70113	70253	36,981	1,405	27.3	36,871	1,438	27.2	-110	33	0.0
70121_70253	70121	70253	210	210	14.5	210	210	14.5	0	0	0.0
14523_70312	14523	70312	1,015	15	22.0	995	15	22.0	-20	0	0.0
70090_70326	70090	70326	40,764	2,527	110.5	40,696	2,564	110.5	-68	36	0.0
70213_70345	70213	70345	27,389	740	61.6	27,371	739	61.6	-18	0	0.0
70436_70437	70436	70437	0	0	25.0	0	0	25.0	0	0	0.0
70436_70440	70436	70440	0	0	24.0	0	0	24.0	0	0	0.0
70439_70440	70439	70440	0	0	25.0	0	0	25.0	0	0	0.0
70310_70441	70310	70441	5,115	61	23.7	5,133	62	23.7	18	0	0.0
70440_70441	70440	70441	0	0	17.0	0	0	17.0	0	0	0.0
70310_70442	70310	70442	31,126	1,338	44.1	31,020	1,365	44.1	-106	26	0.0
70441_70443	70441	70443	5,115	61	24.9	5,133	62	24.9	18	0	0.0
70442_70443	70442	70443	0	0	23.0	0	0	23.0	0	0	0.0

Road	A node	B node	Without the Proposed Scheme			With the Proposed Scheme			Change in AADT	Change in HDVs	Change in Speed
			AADT	HDVs	Speed (kph) ¹	AADT	HDVs	Speed (kph) ¹			
70113_70445	70113	70445	0	0	19.0	0	0	19.0	0	0	0.0
70444_70445	70444	70445	1,132	0	23.0	1,129	0	23.0	-3	0	0.0
70445_70446	70445	70446	0	0	19.0	0	0	19.0	0	0	0.0
70446_70447	70446	70447	746	7	25.0	750	7	25.0	4	0	0.0
70116_70448	70116	70448	1,667	18	24.0	1,674	18	24.0	7	0	0.0
70446_70448	70446	70448	0	0	24.0	0	0	24.0	0	0	0.0
70448_70449	70448	70449	11	11	22.5	10	10	22.5	-1	-1	0.0
70116_70583	70116	70583	836	210	17.0	838	210	17.0	2	1	0.0
70030_70693	70030	70693	1,592	228	25.0	1,598	229	25.0	6	1	0.0
70116_70693	70116	70693	2,158	229	19.9	2,144	227	19.9	-14	-1	0.0
70693_70694	70693	70694	0	0	24.0	0	0	24.0	0	0	0.0
70019_70695	70019	70695	1,495	345	29.0	1,513	345	29.0	18	0	0.0
70241_70695	70241	70695	81	81	23.0	81	81	23.0	0	0	0.0
70694_70695	70694	70695	6,539	399	30.9	6,525	398	30.9	-14	-1	0.0
70019_70696	70019	70696	5,351	449	29.8	5,369	451	29.8	18	2	0.0
70019_70697	70019	70697	22,432	1,189	35.0	22,280	1,203	35.0	-152	14	0.0
70696_70698	70696	70698	0	0	25.0	0	0	25.0	0	0	0.0
70697_70698	70697	70698	0	0	23.0	0	0	23.0	0	0	0.0
14265_70699	14265	70699	3,791	0	19.3	3,846	0	19.3	55	0	0.0
70698_70699	70698	70699	0	0	24.0	0	0	24.0	0	0	0.0

Road	A node	B node	Without the Proposed Scheme			With the Proposed Scheme			Change in AADT	Change in HDVs	Change in Speed
			AADT	HDVs	Speed (kph) ¹	AADT	HDVs	Speed (kph) ¹			
70001_70700	70001	70700	26,352	1,212	34.8	26,275	1,235	34.8	-77	23	0.0
70697_70700	70697	70700	23,489	1,198	35.0	23,333	1,237	35.0	-156	39	0.0
70699_70700	70699	70700	0	0	18.0	0	0	18.0	0	0	0.0
70347_70817	70347	70817	7,225	484	24.5	7,236	485	24.5	11	1	0.0
70326_70824	70326	70824	40,764	2,527	36.2	40,696	2,564	36.2	-68	36	0.0
70822_70825	70822	70825	5,992	270	13.9	5,991	270	13.9	-1	0	0.0
70822_70827	70822	70827	23,467	1,807	37.7	23,406	1,849	37.7	-61	42	0.0
70213_70844	70213	70844	18,795	902	42.7	18,816	922	42.6	21	20	-0.1
70436_70846	70436	70846	6	0	14.0	6	0	14.0	0	0	0.0
70845_70846	70845	70846	14,241	1,111	24.3	14,188	1,135	24.3	-53	24	0.0

CFAo03 Construction Traffic Data - Test 3

Table 4: Traffic data used in the construction assessment

Road	A node	B node	Without the Proposed Scheme			With the Proposed Scheme			Change in AADT	Change in HDVs	Change in Speed
			AADT	HDVs	Speed (kph) ¹	AADT	HDVs	Speed (kph) ¹			
12003_12002	12003	12002	2,980	39	20.4	2,754	41	20.3	-226	2	-0.1
12048_12003	12048	12003	5,313	207	21.4	5,144	234	21.4	-169	27	0.0
12387_12004	12387	12004	2,092	222	23.7	2,221	180	23.7	129	-42	0.0
12389_12004	12389	12004	4,839	266	23.2	4,822	267	23.2	-17	1	0.0
12395_12002	12395	12002	11,197	1,668	29.8	11,336	1,810	29.7	139	141	-0.1
12395_12003	12395	12003	2,221	24	27.6	2,023	29	27.7	-198	4	0.0
12395_12389	12395	12389	8,488	1,316	13.7	8,933	1,686	13.5	445	371	-0.2
13264_13263	13264	13263	2,363	24	14.8	2,365	24	14.8	2	0	0.0
13280_12389	13280	12389	215	0	13.7	176	0	13.7	-39	0	0.0
13282_12002	13282	12002	13,341	1,334	15.0	13,542	1,587	14.4	201	253	-0.6
13282_13281	13282	13281	953	15	23.5	932	17	23.5	-21	2	0.0
13339_13282	13339	13282	11,949	1,195	33.0	12,120	1,441	33.0	171	246	0.0
13472_13281	13472	13281	4,419	80	24.2	4,294	52	24.2	-125	-28	0.0
13514_13513	13514	13513	1,832	117	13.1	1,840	120	13.1	8	3	0.0
14094_14091	14094	14091	2,599	117	23.0	2,625	117	23.0	26	0	0.0
14095_14094	14095	14094	3,609	292	23.0	3,610	297	23.0	1	5	0.0
14098_14096	14098	14096	0	0	21.5	0	0	21.5	0	0	0.0

Road	A node	B node	Without the Proposed Scheme			With the Proposed Scheme			Change in AADT	Change in HDVs	Change in Speed
			AADT	HDVs	Speed (kph) ¹	AADT	HDVs	Speed (kph) ¹			
14105_13281	14105	13281	749	1	23.1	670	1	23.1	-79	0	0.0
14119_13514	14119	13514	1,831	117	25.0	1,840	120	25.0	9	3	0.0
14119_14088	14119	14088	1,066	42	22.8	988	40	22.7	-78	-2	-0.1
14119_14105	14119	14105	2,276	36	25.3	1,917	59	25.1	-359	23	-0.2
14156_14149	14156	14149	2,774	236	26.3	2,844	230	25.6	70	-6	-0.7
14156_14155	14156	14155	3,677	316	1.8	3,640	325	1.7	-37	8	-0.1
14158_14157	14158	14157	15,794	758	11.1	15,403	947	11.3	-391	189	0.2
14160_14016	14160	14016	7,367	449	23.4	1,052	2,756	25.6	-6,315	2,307	2.2
14161_14016	14161	14016	8,378	461	21.2	4,528	769	21.8	-3,850	308	0.6
14161_14140	14161	14140	7,163	688	9.0	5,320	870	16.3	-1,843	182	7.3
14162_14017	14162	14017	698	122	23.3	1,215	71	23.2	517	-51	-0.1
14163_14017	14163	14017	2,923	117	24.0	3,596	99	23.9	673	-18	-0.1
14167_14156	14167	14156	956	108	22.7	1,025	100	22.7	69	-8	0.0
14169_14095	14169	14095	23,022	1,911	11.4	23,169	2,065	11.2	147	154	-0.2
14170_14159	14170	14159	5,820	308	16.4	5,564	495	16.6	-256	187	0.2
14179_14159	14179	14159	11,143	702	20.8	9,563	654	22.0	-1,580	-48	1.2
14182_14163	14182	14163	7,914	293	20.2	9,211	265	19.4	1,297	-28	-0.9
14182_14181	14182	14181	11,657	734	28.7	11,573	740	28.6	-84	6	-0.1
14188_14175	14188	14175	18,152	1,380	21.3	18,311	1,549	21.3	159	170	0.0
14188_14187	14188	14187	20,664	1,674	7.9	20,916	1,810	7.8	252	136	-0.1

Road	A node	B node	Without the Proposed Scheme			With the Proposed Scheme			Change in AADT	Change in HDVs	Change in Speed
			AADT	HDVs	Speed (kph) ¹	AADT	HDVs	Speed (kph) ¹			
14198_14158	14198	14158	8,392	713	3.8	7,876	746	3.7	-516	33	-0.1
14198_14179	14198	14179	9,369	675	29.9	8,192	600	30.0	-1,177	-75	0.1
14200_14187	14200	14187	16,658	1,366	18.8	16,901	1,533	18.7	243	167	-0.1
14205_14095	14205	14095	23,547	1,978	8.6	23,836	2,117	8.3	289	139	-0.3
14205_14149	14205	14149	3,200	83	22.1	3,430	84	22.1	230	1	0.0
14206_14175	14206	14175	1,228	146	3.1	1,262	148	2.9	34	2	-0.2
14206_14176	14206	14176	1,744	58	11.7	1,954	52	11.2	210	-5	-0.5
14207_14187	14207	14187	2,122	45	7.7	2,256	44	7.1	134	0	-0.6
14207_14206	14207	14206	570	3	22.3	585	3	22.3	15	0	0.0
14210_14182	14210	14182	8,011	409	18.9	8,132	404	19.0	121	-5	0.1
14213_14179	14213	14179	2,153	15	18.6	1,965	12	19.6	-188	-3	1.0
14216_14213	14216	14213	2,921	67	19.5	2,816	70	19.5	-105	3	0.0
14224_14159	14224	14159	4,141	306	12.5	4,543	255	12.2	402	-52	-0.3
14224_14216	14224	14216	5,987	90	24.3	5,260	82	24.2	-727	-8	-0.1
14225_14213	14225	14213	1,521	56	14.6	1,521	56	14.7	0	0	0.0
14231_14158	14231	14158	2,724	93	8.5	2,755	80	8.4	31	-13	-0.2
14231_14216	14231	14216	4,303	133	24.5	3,526	153	24.5	-777	20	0.0
14232_14215	14232	14215	3,620	243	41.0	4,629	162	41.0	1,009	-80	0.0
14232_14217	14232	14217	8,982	512	21.8	10,979	384	21.7	1,997	-128	-0.1
14233_14155	14233	14155	14,676	1,644	13.0	14,470	1,810	13.3	-206	167	0.4

Road	A node	B node	Without the Proposed Scheme			With the Proposed Scheme			Change in AADT	Change in HDVs	Change in Speed
			AADT	HDVs	Speed (kph) ¹	AADT	HDVs	Speed (kph) ¹			
14233_14205	14233	14205	23,547	1,978	38.0	23,836	2,117	38.0	289	139	0.0
14242_14178	14242	14178	7,632	550	30.6	8,272	513	30.6	640	-37	0.0
14244_14242	14244	14242	1,474	29	21.5	1,722	25	21.5	248	-4	-0.1
14245_13339	14245	13339	9,693	1,212	32.0	10,129	1,540	32.0	436	328	0.0
14245_14105	14245	14105	5,530	11	29.1	5,716	11	29.1	186	0	0.0
14245_14157	14245	14157	7,696	1,701	12.7	7,571	1,842	13.4	-125	141	0.7
14247_14170	14247	14170	2,082	398	2.3	1,981	416	2.1	-101	19	-0.2
14250_14232	14250	14232	6,635	332	17.5	5,948	357	15.8	-687	25	-1.7
14257_14149	14257	14149	2,706	208	30.3	2,597	222	30.3	-109	13	0.0
14257_14256	14257	14256	1,382	86	24.0	1,396	84	24.0	14	-1	0.0
14265_14261	14265	14261	0	0	18.2	0	0	18.1	0	0	-0.1
14265_14264	14265	14264	0	0	9.2	0	0	9.2	0	0	0.0
14268_14264	14268	14264	6,401	179	7.5	6,565	193	7.4	164	14	-0.1
14269_14268	14269	14268	6,401	179	28.3	6,565	193	28.3	164	14	0.0
14270_14269	14270	14269	0	0	20.4	0	0	20.3	0	0	-0.1
14271_14200	14271	14200	793	127	10.2	846	122	9.9	53	-5	-0.4
14272_14271	14272	14271	3,652	150	28.9	3,741	135	28.8	89	-15	0.0
14273_14162	14273	14162	2,133	237	22.1	3,380	287	21.6	1,247	51	-0.5
14273_14170	14273	14170	9,427	471	1.7	9,499	687	1.3	72	216	-0.4
14273_14181	14273	14181	40	0	23.8	95	0	23.8	55	0	0.0

Road	A node	B node	Without the Proposed Scheme			With the Proposed Scheme			Change in AADT	Change in HDVs	Change in Speed
			AADT	HDVs	Speed (kph) ¹	AADT	HDVs	Speed (kph) ¹			
14274_14269	14274	14269	6,401	179	30.2	6,565	193	30.2	164	14	0.0
14274_14270	14274	14270	0	0	24.2	0	0	24.3	0	0	0.0
14279_14186	14279	14186	7,043	148	16.0	7,365	144	15.9	322	-4	-0.1
14279_14277	14279	14277	10,302	175	28.3	10,386	197	28.3	84	22	0.0
14400_14268	14400	14268	425	0	19.9	414	0	19.8	-11	0	-0.1
14401_14270	14401	14270	476	0	20.4	545	0	20.4	69	0	0.0
14401_14400	14401	14400	22,743	1,706	22.4	22,579	1,873	22.3	-164	167	-0.1
14402_14277	14402	14277	2,959	145	21.7	3,074	142	21.7	115	-3	0.0
14402_14401	14402	14401	22,742	1,706	22.4	22,561	1,873	22.3	-181	167	-0.1
14403_14200	14403	14200	16,378	1,703	17.1	16,456	1,849	17.1	78	146	-0.1
14403_14279	14403	14279	1,041	0	21.4	898	0	21.4	-143	0	0.0
14403_14402	14403	14402	17,574	1,705	23.2	17,515	1,857	23.2	-59	153	-0.1
14404_14187	14404	14187	2,979	42	2.2	3,004	42	2.1	25	0	-0.1
14404_14271	14404	14271	2,767	105	23.7	2,686	111	23.7	-81	5	0.0
14406_14175	14406	14175	1,699	61	12.0	1,792	58	11.6	93	-3	-0.4
14407_14404	14407	14404	253	37	22.1	256	37	22.1	3	0	0.0
14535_14523	14535	14523	1,629	42	23.9	1,667	42	23.9	38	-1	0.0
14537_14523	14537	14523	0	0	23.1	0	0	23.1	0	0	0.0
14558_14200	14558	14200	3,513	4	7.9	3,521	3	7.4	8	0	-0.5
14558_14535	14558	14535	0	0	23.1	0	0	23.0	0	0	0.0

Road	A node	B node	Without the Proposed Scheme			With the Proposed Scheme			Change in AADT	Change in HDVs	Change in Speed
			AADT	HDVs	Speed (kph) ¹	AADT	HDVs	Speed (kph) ¹			
14558_14537	14558	14537	393	30	24.2	395	30	24.2	2	0	0.0
14587_14096	14587	14096	130	129	23.2	130	128	23.2	0	-1	0.0
14587_14169	14587	14169	1,979	267	3.9	2,067	257	3.7	88	-10	-0.2
14588_14119	14588	14119	2,086	140	18.3	2,010	147	18.3	-76	7	0.0
14589_14154	14589	14154	8,226	280	24.5	7,956	277	24.6	-270	-3	0.2
14589_14157	14589	14157	4,110	288	3.7	3,954	303	4.0	-156	15	0.4
14589_14588	14589	14588	905	45	22.0	879	45	22.0	-26	0	0.0
14603_14257	14603	14257	664	97	31.3	569	120	31.3	-95	23	0.0
14611_14215	14611	14215	5,585	363	37.3	7,711	197	37.3	2,126	-166	0.0
14611_14224	14611	14224	4,330	247	36.1	5,336	177	36.0	1,006	-70	-0.1
14614_14236	14614	14236	4,995	250	12.7	4,781	0	12.8	-214	-250	0.0
14614_14250	14614	14250	11,951	621	14.9	12,129	437	15.9	178	-184	0.9
14627_14250	14627	14250	11,868	427	25.3	11,122	278	25.9	-746	-149	0.6
14650_14136	14650	14136	5,477	444	4.4	6,016	276	4.0	539	-167	-0.4
14650_14137	14650	14137	7,993	312	7.5	8,528	380	7.4	535	68	-0.1
14718_14137	14718	14137	5,568	278	4.4	6,359	312	3.8	791	33	-0.6
14727_14169	14727	14169	20,509	1,497	24.3	20,549	1,675	24.4	40	178	0.1
14727_14175	14727	14175	19,371	1,588	21.7	19,754	1,717	21.4	383	128	-0.3
14738_12390	14738	12390	1,434	37	25.0	1,537	30	25.0	103	-8	0.0
14738_13339	14738	13339	4,954	79	18.6	4,717	70	18.5	-237	-10	-0.1

Road	A node	B node	Without the Proposed Scheme			With the Proposed Scheme			Change in AADT	Change in HDVs	Change in Speed
			AADT	HDVs	Speed (kph) ¹	AADT	HDVs	Speed (kph) ¹			
14747_14231	14747	14231	7,012	231	9.1	6,364	232	9.7	-648	1	0.7
14747_14613	14747	14613	4,777	134	29.8	4,245	157	29.8	-532	24	0.0
14747_14738	14747	14738	5,971	107	21.0	5,704	86	21.0	-267	-21	0.1
14760_14137	14760	14137	10,360	1,285	6.2	11,727	1,058	5.1	1,367	-226	-1.1
14774_14158	14774	14158	982	44	18.7	1,043	48	18.9	61	4	0.2
14774_14738	14774	14738	730	21	24.3	770	20	24.3	40	-1	0.0
14803_14154	14803	14154	1,286	175	22.2	1,261	177	22.3	-25	2	0.0
14803_14233	14803	14233	11,846	47	14.9	12,152	94	14.5	306	47	-0.4
14807_14803	14807	14803	3,480	42	14.0	3,480	42	14.0	0	0	0.0
14813_14261	14813	14261	26,439	1,930	35.1	26,316	2,128	35.1	-123	198	0.0
14813_14264	14813	14264	954	0	6.4	1,352	0	5.5	398	0	-0.9
14813_14400	14813	14400	21,179	1,864	24.7	21,508	2,007	24.7	329	143	0.0
14813_14535	14813	14535	1,629	42	23.2	1,667	42	23.2	38	-1	0.0
14818_14163	14818	14163	2,663	325	11.2	2,788	325	11.2	125	0	-0.1
14818_14230	14818	14230	6,805	340	13.6	5,592	423	15.6	-1,213	83	2.0
14818_14817	14818	14817	1,025	38	25.0	1,024	38	25.0	-1	0	0.0
14950_14155	14950	14155	10,682	2,371	3.6	10,626	2,459	3.3	-56	87	-0.3
14950_14157	14950	14157	18,990	1,728	7.4	18,821	1,885	7.4	-169	157	0.0
14954_14136	14954	14136	8,591	404	2.5	8,828	0	2.2	237	-404	-0.3
14954_14236	14954	14236	5,359	456	24.8	6,058	0	24.5	699	-456	-0.4

Road	A node	B node	Without the Proposed Scheme			With the Proposed Scheme			Change in AADT	Change in HDVs	Change in Speed
			AADT	HDVs	Speed (kph) ¹	AADT	HDVs	Speed (kph) ¹			
70001_14261	70001	14261	22,772	1,936	36.0	22,857	2,110	36.0	85	174	0.0
70030_70019	70030	70019	23,731	1,187	39.5	24,011	1,369	39.4	280	182	-0.1
70107_70030	70107	70030	346	5	16.8	352	5	16.8	6	0	0.0
70241_70001	70241	70001	5,592	856	2.5	5,640	856	2.4	48	0	0.0
70250_70023	70250	70023	3,857	756	22.2	3,995	736	22.1	138	-20	-0.1
70250_70241	70250	70241	5,592	856	34.6	5,640	856	34.6	48	0	0.0
70251_70250	70251	70250	2,967	56	19.8	3,037	62	19.8	70	6	0.0
70253_70030	70253	70030	23,531	1,412	29.9	23,765	1,591	29.8	234	179	-0.1
70253_70121	70253	70121	871	259	25.0	859	261	25.0	-12	2	0.0
70253_70213	70253	70213	46,183	1,663	57.6	46,214	1,843	57.2	31	180	-0.3
70312_14523	70312	14523	356	7	24.4	717	3	24.3	361	-4	0.0
70319_66242	70319	66242	56,048	2,802	46.6	56,123	2,804	46.6	75	1	0.0
70325_70092	70325	70092	45,314	1,994	108.5	45,449	2,174	108.5	135	180	0.0
70339_70310	70339	70310	38,299	1,417	58.2	38,571	1,605	58.0	272	188	-0.2
70344_70339	70344	70339	24,050	313	38.0	24,025	312	38.1	-25	0	0.1
70347_70328	70347	70328	6,932	347	62.7	6,896	346	62.7	-36	-1	0.0
70437_70436	70437	70436	6	0	23.0	8	0	23.0	2	0	0.0
70440_70436	70440	70436	0	0	24.0	0	0	24.0	0	0	0.0
70440_70439	70440	70439	0	0	20.5	0	0	20.5	0	0	0.0
70441_70310	70441	70310	0	0	18.0	0	0	18.0	0	0	0.0

Road	A node	B node	Without the Proposed Scheme			With the Proposed Scheme			Change in AADT	Change in HDVs	Change in Speed
			AADT	HDVs	Speed (kph) ¹	AADT	HDVs	Speed (kph) ¹			
70441_70440	70441	70440	0	0	18.0	0	0	18.0	0	0	0.0
70442_70113	70442	70113	34,013	1,327	39.9	34,218	1,525	39.8	205	198	-0.2
70443_70441	70443	70441	0	0	22.0	0	0	22.0	0	0	0.0
70443_70442	70443	70442	2,044	0	20.3	2,036	0	20.3	-8	0	0.0
70445_70113	70445	70113	2,112	70	13.4	2,115	69	13.4	3	0	0.0
70445_70444	70445	70444	0	0	23.0	0	0	23.0	0	0	0.0
70446_70445	70446	70445	980	69	19.0	944	72	19.0	-36	3	0.0
70447_70446	70447	70446	69	69	23.0	70	69	23.0	1	0	0.0
70448_70116	70448	70116	0	0	18.0	0	0	18.0	0	0	0.0
70448_70446	70448	70446	1,657	7	19.9	1,601	7	19.9	-56	0	0.0
70449_70448	70449	70448	0	0	23.0	0	0	23.0	0	0	0.0
70583_70116	70583	70116	3,069	227	23.9	3,031	229	23.9	-38	2	0.0
70693_70030	70693	70030	2,159	229	8.8	2,158	228	8.8	-1	-1	0.0
70693_70116	70693	70116	1,592	228	19.9	1,567	233	19.9	-25	5	0.0
70694_70693	70694	70693	0	0	24.0	0	0	24.0	0	0	0.0
70695_70019	70695	70019	6,635	491	8.0	6,743	485	7.8	108	-6	-0.2
70695_70241	70695	70241	0	0	22.0	0	0	22.0	0	0	0.0
70695_70694	70695	70694	1,495	345	31.0	1,502	342	31.0	7	-3	0.0
70696_70019	70696	70019	5,824	483	14.7	5,917	478	14.7	93	-5	0.0
70697_70019	70697	70019	23,649	1,206	21.9	23,589	1,411	21.8	-60	205	-0.1

Road	A node	B node	Without the Proposed Scheme			With the Proposed Scheme			Change in AADT	Change in HDVs	Change in Speed
			AADT	HDVs	Speed (kph) ¹	AADT	HDVs	Speed (kph) ¹			
70698_70696	70698	70696	0	0	23.0	0	0	23.0	0	0	0.0
70698_70697	70698	70697	0	0	17.5	0	0	17.5	0	0	0.0
70699_14265	70699	14265	0	0	23.8	0	0	23.8	0	0	0.0
70699_70698	70699	70698	3,795	0	20.5	3,904	0	20.4	109	0	0.0
70700_70001	70700	70001	23,490	1,198	24.4	23,832	1,377	24.2	342	179	-0.2
70700_70697	70700	70697	26,351	1,212	34.9	26,169	1,412	34.9	-182	200	0.0
70700_70699	70700	70699	0	0	20.0	0	0	20.0	0	0	0.0
70819_70328	70819	70328	9,103	865	22.1	9,151	858	21.9	48	-6	-0.2
70819_70816	70819	70816	27,024	2,108	36.9	27,000	2,106	36.9	-24	-2	0.0
70820_70325	70820	70325	19,059	762	97.0	19,166	970	96.5	107	208	-0.4
70821_70325	70821	70325	26,255	1,208	69.3	26,283	1,209	69.1	28	1	-0.2
70823_70821	70823	70821	5,232	78	15.3	5,304	79	15.3	72	1	0.0
70824_70819	70824	70819	27,753	1,721	22.6	27,764	1,722	22.6	11	1	0.0
70824_70822	70824	70822	27,797	2,029	22.6	27,956	2,218	22.6	159	188	-0.1
70825_70820	70825	70820	19,059	762	42.0	19,166	970	42.0	107	208	0.0
70826_70819	70826	70819	12,709	1,093	10.7	12,727	1,091	10.7	18	-2	0.0
70845_70843	70845	70843	1,974	87	20.0	2,026	85	20.0	52	-2	0.0
70846_70339	70846	70339	14,250	1,112	51.0	14,546	1,276	50.5	296	165	-0.5
12002_12003	12002	12003	4,364	214	20.1	4,404	204	20.1	40	-10	0.0
12003_12048	12003	12048	6,585	237	18.4	6,427	231	18.4	-158	-6	0.0

Road	A node	B node	Without the Proposed Scheme			With the Proposed Scheme			Change in AADT	Change in HDVs	Change in Speed
			AADT	HDVs	Speed (kph) ¹	AADT	HDVs	Speed (kph) ¹			
12004_12387	12004	12387	4,840	266	9.3	4,822	267	9.5	-18	1	0.2
12004_12389	12004	12389	1,448	222	6.9	1,497	209	6.9	49	-13	0.0
12002_12395	12002	12395	7,293	1,094	15.1	7,436	1,419	15.0	143	325	0.0
12003_12395	12003	12395	2,333	168	4.5	2,390	176	4.4	57	8	-0.1
12389_12395	12389	12395	12,188	1,694	15.3	12,262	1,859	15.0	74	164	-0.3
13263_13264	13263	13264	1,810	31	25.0	1,821	29	25.0	11	-2	0.0
12389_13280	12389	13280	0	0	25.0	0	0	25.0	0	0	0.0
12002_13282	12002	13282	15,467	1,717	24.0	15,275	1,919	24.0	-192	202	-0.1
13281_13282	13281	13282	4,892	78	14.7	4,724	53	14.7	-168	-25	0.0
13282_13339	13282	13339	17,584	1,741	23.9	17,163	1,845	24.3	-421	104	0.4
13281_13472	13281	13472	1,229	15	12.7	1,171	19	12.7	-58	4	0.0
13513_13514	13513	13514	1,456	50	25.0	1,427	123	25.0	-29	73	0.0
14092_14094	14092	14094	362	70	22.5	462	61	22.5	100	-9	0.0
14096_14097	14096	14097	130	129	24.2	130	128	24.2	0	-1	0.0
14096_14098	14096	14098	0	0	21.6	0	0	21.6	0	0	0.0
13281_14105	13281	14105	0	0	23.0	0	0	23.0	0	0	0.0
13514_14119	13514	14119	1,456	50	19.7	1,427	123	19.6	-29	73	0.0
14088_14119	14088	14119	2,864	34	26.1	2,789	35	26.2	-75	1	0.0
14105_14119	14105	14119	5,530	11	20.9	5,716	11	20.8	186	0	-0.1
14149_14156	14149	14156	2,660	207	28.0	2,552	221	28.0	-108	13	0.0

Road	A node	B node	Without the Proposed Scheme			With the Proposed Scheme			Change in AADT	Change in HDVs	Change in Speed
			AADT	HDVs	Speed (kph) ¹	AADT	HDVs	Speed (kph) ¹			
14155_14156	14155	14156	2,868	327	30.2	2,963	337	30.1	95	10	0.0
14155_14158	14155	14158	146	146	12.8	146	146	12.8	0	0	0.0
14157_14158	14157	14158	14,424	736	12.8	13,275	662	12.9	-1,149	-74	0.0
14016_14160	14016	14160	8,445	524	12.8	4,596	893	16.3	-3,849	369	3.5
14016_14161	14016	14161	9,224	452	18.9	4,112	906	20.3	-5,112	454	1.4
14140_14161	14140	14161	8,470	652	17.1	4,889	1,136	18.2	-3,581	484	1.1
14017_14162	14017	14162	86	85	2.5	110	68	2.5	24	-17	0.0
14017_14163	14017	14163	1,772	167	13.5	2,168	135	13.5	396	-31	-0.1
14149_14167	14149	14167	2,745	66	27.6	3,177	68	27.5	432	2	-0.1
14156_14167	14156	14167	92	90	24.5	111	91	24.5	19	1	0.0
14095_14169	14095	14169	22,339	1,787	19.8	22,655	1,917	20.0	316	130	0.3
14159_14170	14159	14170	1,967	250	11.9	2,383	317	7.4	416	67	-4.4
14159_14179	14159	14179	7,434	632	30.8	6,344	736	30.8	-1,090	104	0.1
14163_14182	14163	14182	3,341	314	24.6	3,308	347	24.4	-33	33	-0.3
14178_14182	14178	14182	13,174	540	14.3	14,022	512	14.4	848	-28	0.1
14175_14188	14175	14188	20,664	1,674	32.3	20,916	1,810	32.2	252	136	-0.1
14187_14188	14187	14188	18,151	1,379	13.8	18,310	1,549	13.8	159	170	0.0
14158_14198	14158	14198	9,866	691	24.3	8,880	607	25.3	-986	-83	1.1
14179_14198	14179	14198	7,276	626	28.5	6,624	675	28.6	-652	49	0.0
14187_14200	14187	14200	17,765	1,599	24.4	17,769	1,772	24.4	4	173	0.0

Road	A node	B node	Without the Proposed Scheme			With the Proposed Scheme			Change in AADT	Change in HDVs	Change in Speed
			AADT	HDVs	Speed (kph) ¹	AADT	HDVs	Speed (kph) ¹			
14095_14205	14095	14205	19,191	1,746	34.4	19,308	1,911	34.3	117	165	-0.1
14175_14206	14175	14206	1,418	60	24.2	1,701	52	24.2	283	-8	0.0
14176_14206	14176	14206	3,290	188	23.7	3,468	182	23.6	178	-5	-0.1
14187_14207	14187	14207	4,415	71	23.2	4,746	62	23.2	331	-8	0.0
14206_14207	14206	14207	2,757	44	24.4	3,051	39	24.4	294	-5	0.0
14182_14210	14182	14210	5,067	233	30.6	4,803	245	30.7	-264	12	0.1
14179_14213	14179	14213	1,610	11	22.9	1,446	13	23.0	-164	2	0.1
14213_14216	14213	14216	1,857	54	8.8	1,778	67	9.3	-79	13	0.5
14159_14224	14159	14224	9,754	429	30.4	10,984	301	31.0	1,230	-128	0.6
14216_14224	14216	14224	1,630	82	21.4	1,196	106	20.2	-434	25	-1.2
14213_14225	14213	14225	2,042	67	25.0	2,040	67	25.0	-2	0	0.0
14158_14231	14158	14231	1,257	83	31.2	1,370	103	31.2	113	20	0.0
14216_14231	14216	14231	7,597	129	22.5	6,552	133	22.7	-1,045	4	0.2
14215_14232	14215	14232	4,357	349	39.3	6,483	155	39.1	2,126	-194	-0.2
14217_14232	14217	14232	2,138	107	24.0	3,703	74	23.9	1,565	-33	-0.1
14155_14233	14155	14233	7,481	2,102	32.5	7,280	2,220	32.5	-201	118	0.0
14205_14233	14205	14233	14,676	1,644	38.0	14,470	1,810	38.0	-206	167	0.0
14217_14236	14217	14236	8,769	377	8.8	8,698	317	8.7	-71	-60	0.0
14181_14242	14181	14242	7,581	576	30.9	8,125	562	30.9	544	-14	0.0
14242_14244	14242	14244	1,421	53	23.1	1,574	62	23.2	153	9	0.1

Road	A node	B node	Without the Proposed Scheme			With the Proposed Scheme			Change in AADT	Change in HDVs	Change in Speed
			AADT	HDVs	Speed (kph) ¹	AADT	HDVs	Speed (kph) ¹			
13339_14245	13339	14245	13,312	1,677	26.2	13,852	1,690	26.2	540	13	0.0
14105_14245	14105	14245	1,526	37	8.7	1,247	58	8.9	-279	21	0.1
14157_14245	14157	14245	10,729	1,223	27.6	11,229	1,544	27.4	500	321	-0.2
14170_14247	14170	14247	5,305	531	30.8	4,569	552	30.9	-736	22	0.1
14149_14257	14149	14257	3,308	261	29.6	3,163	274	29.6	-145	13	-0.1
14256_14257	14256	14257	3,352	104	20.2	3,349	104	20.2	-3	0	0.0
14261_14265	14261	14265	0	0	21.1	0	0	21.1	0	0	0.0
14264_14265	14264	14265	3,791	0	24.1	3,897	0	24.1	106	0	0.0
14264_14268	14264	14268	2,292	7	29.8	2,568	5	29.8	276	-2	0.0
14268_14269	14268	14269	2,286	7	28.9	2,560	5	28.8	274	-2	0.0
14269_14270	14269	14270	0	0	21.1	0	0	21.1	0	0	0.0
14200_14271	14200	14271	2,844	284	20.5	2,977	268	20.4	133	-16	-0.1
14271_14272	14271	14272	5,453	333	19.4	5,506	326	19.4	53	-7	0.0
14162_14273	14162	14273	4,721	293	31.0	5,441	464	29.4	720	171	-1.6
14170_14273	14170	14273	1,961	231	26.6	3,379	266	26.4	1,418	35	-0.2
14181_14273	14181	14273	3,857	143	23.4	3,331	149	19.3	-526	6	-4.1
14269_14274	14269	14274	2,286	7	30.5	2,560	5	30.4	274	-2	0.0
14270_14274	14270	14274	476	0	21.6	545	0	21.6	69	0	0.0
14186_14279	14186	14279	10,302	175	23.9	10,386	197	23.9	84	22	0.0
14277_14279	14277	14279	5,937	148	30.0	6,409	140	29.9	472	-9	0.0

Road	A node	B node	Without the Proposed Scheme			With the Proposed Scheme			Change in AADT	Change in HDVs	Change in Speed
			AADT	HDVs	Speed (kph) ¹	AADT	HDVs	Speed (kph) ¹			
14268_14400	14268	14400	427	0	11.6	418	0	11.3	-9	0	-0.3
14270_14401	14270	14401	0	0	7.2	0	0	7.1	0	0	-0.1
14400_14401	14400	14401	21,191	1,865	24.4	21,523	2,010	24.2	332	145	-0.3
14277_14402	14277	14402	3,660	0	19.3	3,586	0	19.2	-74	0	-0.1
14401_14402	14401	14402	20,540	1,869	14.2	20,769	2,012	11.8	229	143	-2.5
14200_14403	14200	14403	19,034	1,694	16.2	18,779	1,885	17.0	-255	190	0.8
14279_14403	14279	14403	0	0	10.0	0	0	10.0	0	0	0.0
14402_14403	14402	14403	16,378	1,703	2.2	16,456	1,849	2.2	78	146	0.0
14187_14404	14187	14404	2,664	77	22.6	2,586	83	22.6	-78	5	0.0
14271_14404	14271	14404	3,018	78	23.5	3,052	75	23.5	34	-3	0.0
14175_14406	14175	14406	1,279	40	24.4	1,233	43	24.4	-46	4	0.0
14404_14407	14404	14407	189	46	22.5	204	43	22.5	15	-3	0.0
14523_14535	14523	14535	616	7	24.0	1,077	4	24.0	461	-3	0.0
14523_14537	14523	14537	0	0	23.1	0	0	23.0	0	0	0.0
14200_14558	14200	14558	393	30	24.3	395	30	24.3	2	0	0.0
14535_14558	14535	14558	0	0	23.0	0	0	23.0	0	0	0.0
14537_14558	14537	14558	3,513	4	24.1	3,521	3	24.1	8	0	0.0
14094_14587	14094	14587	714	199	22.9	801	188	22.9	87	-11	0.0
14101_14587	14101	14587	651	173	24.3	659	161	24.3	8	-12	0.0
14119_14588	14119	14588	6,764	41	23.2	7,196	90	23.1	432	49	-0.1

Road	A node	B node	Without the Proposed Scheme			With the Proposed Scheme			Change in AADT	Change in HDVs	Change in Speed
			AADT	HDVs	Speed (kph) ¹	AADT	HDVs	Speed (kph) ¹			
14154_14589	14154	14589	3,956	289	30.8	3,715	304	30.8	-241	15	0.0
14157_14589	14157	14589	9,193	331	28.9	8,896	327	28.9	-297	-4	0.0
14588_14589	14588	14589	147	0	20.8	226	0	20.8	79	0	0.0
14257_14603	14257	14603	3,328	163	31.3	3,177	171	31.3	-151	8	0.0
14215_14611	14215	14611	4,330	247	41.0	5,336	177	41.0	1,006	-70	0.0
14224_14611	14224	14611	5,585	363	41.0	7,712	197	41.0	2,127	-166	0.0
14236_14614	14236	14614	11,951	621	38.0	12,129	437	38.0	178	-184	0.0
14250_14614	14250	14614	4,995	250	38.0	4,781	0	38.0	-214	-250	0.0
14250_14627	14250	14627	11,155	535	38.0	11,604	383	38.0	449	-153	0.0
14136_14650	14136	14650	7,993	312	36.0	8,528	380	36.0	535	68	0.0
14137_14650	14137	14650	5,477	444	36.0	6,016	276	36.0	539	-167	0.0
14137_14718	14137	14718	5,189	353	15.6	5,994	389	15.1	805	36	-0.5
14169_14727	14169	14727	22,623	1,697	25.8	22,968	1,853	25.8	345	156	-0.1
14175_14727	14175	14727	17,329	1,404	30.1	17,368	1,562	30.1	39	159	0.0
12390_14738	12390	14738	475	20	23.6	381	42	23.7	-94	22	0.1
13339_14738	13339	14738	4,768	110	22.1	4,054	102	22.1	-714	-8	0.0
14231_14747	14231	14747	9,064	218	10.8	8,213	236	10.9	-851	18	0.1
14613_14747	14613	14747	3,353	124	31.4	3,811	86	31.4	458	-38	0.0
14738_14747	14738	14747	5,035	126	20.7	4,027	123	21.0	-1,008	-3	0.3
14245_14774	14245	14774	730	21	23.4	770	20	23.4	40	-1	0.0

Road	A node	B node	Without the Proposed Scheme			With the Proposed Scheme			Change in AADT	Change in HDVs	Change in Speed
			AADT	HDVs	Speed (kph) ¹	AADT	HDVs	Speed (kph) ¹			
14738_14774	14738	14774	982	44	24.3	1,043	48	24.3	61	4	0.0
14154_14803	14154	14803	13,470	108	29.0	13,786	161	28.9	316	53	0.0
14233_14803	14233	14803	412	160	23.6	374	186	23.6	-38	26	0.0
14803_14807	14803	14807	4,230	89	25.0	4,228	89	25.0	-2	0	0.0
14261_14813	14261	14813	22,772	1,936	21.3	22,857	2,110	21.3	85	174	0.0
14264_14813	14264	14813	1,673	197	3.3	1,735	206	3.3	62	8	0.0
14400_14813	14400	14813	22,749	1,706	1.1	22,578	1,873	1.0	-171	167	0.0
14535_14813	14535	14813	616	7	5.9	1,077	4	5.7	461	-3	-0.2
14163_14818	14163	14818	6,950	320	29.6	5,768	416	29.8	-1,182	96	0.1
14230_14818	14230	14818	2,760	356	24.2	2,854	342	24.2	94	-14	0.0
14817_14818	14817	14818	783	31	14.9	783	31	14.9	0	0	0.0
14155_14950	14155	14950	18,960	1,725	15.1	18,780	1,882	15.0	-180	156	-0.1
14157_14950	14157	14950	10,500	2,195	22.9	10,626	2,416	22.7	126	221	-0.1
14158_14950	14158	14950	183	181	13.6	0	0	10.2	-183	-181	-3.4
14136_14954	14136	14954	5,359	456	35.0	6,058	0	35.0	699	-456	0.0
14236_14954	14236	14954	8,591	404	35.0	8,828	0	35.0	237	-404	0.0
14261_70001	14261	70001	26,439	1,930	8.0	26,316	2,128	7.9	-123	198	-0.1
70019_70030	70019	70030	31,235	1,374	34.9	31,299	1,557	34.8	64	182	-0.1
66241_70036	66241	70036	57,021	2,851	62.8	57,139	2,854	62.8	118	3	0.0
70030_70107	70030	70107	0	0	24.0	0	0	24.0	0	0	0.0

Road	A node	B node	Without the Proposed Scheme			With the Proposed Scheme			Change in AADT	Change in HDVs	Change in Speed
			AADT	HDVs	Speed (kph) ¹	AADT	HDVs	Speed (kph) ¹			
66871_70232	66871	70232	11,163	380	62.3	11,230	369	62.3	67	-11	0.0
70001_70241	70001	70241	6,317	859	30.7	6,650	813	30.6	333	-46	-0.1
70023_70250	70023	70250	2,736	788	37.0	2,734	790	37.0	-2	2	0.0
70241_70250	70241	70250	6,221	765	27.3	6,554	726	27.0	333	-39	-0.3
70250_70251	70250	70251	2,585	8	19.9	2,766	8	19.8	181	0	0.0
70030_70253	70030	70253	32,262	1,613	32.5	32,324	1,800	32.4	62	187	-0.1
70113_70253	70113	70253	36,981	1,405	27.3	37,191	1,584	27.1	210	179	-0.2
70121_70253	70121	70253	210	210	14.5	210	210	14.5	0	0	0.0
14523_70312	14523	70312	1,015	15	22.0	1,037	14	22.0	22	-1	0.0
70090_70326	70090	70326	40,764	2,527	110.5	40,936	2,728	110.5	172	200	0.0
70213_70345	70213	70345	27,389	740	61.6	27,340	738	61.6	-49	-2	0.0
70436_70437	70436	70437	0	0	25.0	0	0	25.0	0	0	0.0
70436_70440	70436	70440	0	0	24.0	0	0	24.0	0	0	0.0
70439_70440	70439	70440	0	0	25.0	0	0	25.0	0	0	0.0
70310_70441	70310	70441	5,115	61	23.7	5,155	62	23.7	40	0	0.0
70440_70441	70440	70441	0	0	17.0	0	0	17.0	0	0	0.0
70310_70442	70310	70442	31,126	1,338	44.1	31,342	1,519	44.1	216	180	0.0
70441_70443	70441	70443	5,115	61	24.9	5,155	62	24.9	40	0	0.0
70442_70443	70442	70443	0	0	23.0	0	0	23.0	0	0	0.0
70113_70445	70113	70445	0	0	19.0	0	0	19.0	0	0	0.0

Road	A node	B node	Without the Proposed Scheme			With the Proposed Scheme			Change in AADT	Change in HDVs	Change in Speed
			AADT	HDVs	Speed (kph) ¹	AADT	HDVs	Speed (kph) ¹			
70444_70445	70444	70445	1,132	0	23.0	1,172	0	23.0	40	0	0.0
70445_70446	70445	70446	0	0	19.0	0	0	19.0	0	0	0.0
70446_70447	70446	70447	746	7	25.0	728	7	25.0	-18	1	0.0
70116_70448	70116	70448	1,667	18	24.0	1,613	20	24.0	-54	2	0.0
70446_70448	70446	70448	0	0	24.0	0	0	24.0	0	0	0.0
70448_70449	70448	70449	11	11	22.5	12	11	22.5	1	0	0.0
70116_70583	70116	70583	836	210	17.0	827	214	17.0	-9	4	0.0
70030_70693	70030	70693	1,592	228	25.0	1,567	233	25.0	-25	5	0.0
70116_70693	70116	70693	2,158	229	19.9	2,158	228	19.9	0	0	0.0
70693_70694	70693	70694	0	0	24.0	0	0	24.0	0	0	0.0
70019_70695	70019	70695	1,495	345	29.0	1,502	342	29.0	7	-3	0.0
70241_70695	70241	70695	81	81	23.0	81	81	23.0	0	0	0.0
70694_70695	70694	70695	6,539	399	30.9	6,647	393	30.9	108	-6	0.0
70019_70696	70019	70696	5,351	449	29.8	5,381	457	29.8	30	7	0.0
70019_70697	70019	70697	22,432	1,189	35.0	22,776	1,359	35.0	344	170	0.0
70696_70698	70696	70698	0	0	25.0	0	0	25.0	0	0	0.0
70697_70698	70697	70698	0	0	23.0	0	0	23.0	0	0	0.0
14265_70699	14265	70699	3,791	0	19.3	3,897	0	19.3	106	0	-0.1
70698_70699	70698	70699	0	0	24.0	0	0	24.0	0	0	0.0
70001_70700	70001	70700	26,352	1,212	34.8	26,170	1,412	34.8	-182	200	0.0

Road	A node	B node	Without the Proposed Scheme			With the Proposed Scheme			Change in AADT	Change in HDVs	Change in Speed
			AADT	HDVs	Speed (kph) ¹	AADT	HDVs	Speed (kph) ¹			
70697_70700	70697	70700	23,489	1,198	35.0	23,831	1,377	35.0	342	179	0.0
70699_70700	70699	70700	0	0	18.0	0	0	18.0	0	0	0.0
70347_70817	70347	70817	7,225	484	24.5	7,237	485	24.5	12	1	0.0
70326_70824	70326	70824	40,764	2,527	36.2	40,936	2,728	36.0	172	200	-0.1
70822_70825	70822	70825	5,992	270	13.9	5,980	269	13.9	-12	0	0.0
70822_70827	70822	70827	23,467	1,807	37.7	23,639	1,989	37.7	172	182	0.0
70213_70844	70213	70844	18,795	902	42.7	18,874	1,087	42.3	79	184	-0.4
70436_70846	70436	70846	6	0	14.0	8	0	14.0	2	0	0.0
70845_70846	70845	70846	14,241	1,111	24.3	14,535	1,276	24.2	294	165	-0.1

CFAoo3 Operational Traffic Data

Table 5: Traffic data used in the operational assessment

Road	A node	B node	Without the Proposed Scheme			With the Proposed Scheme			Change in AADT	Change in HDVs	Change in Speed
			AADT	HDVs	Speed (kph) [±]	AADT	HDVs	Speed (kph) [±]			
14650_14136	14650	14136	5,415	444	4.4	5,403	432	4.3	-12	-12	-0.1
14650_14137	14650	14137	7,825	305	7.6	8,303	307	7.5	478	2	-0.1
14718_14137	14718	14137	5,277	248	4.6	5,263	289	4.6	-14	41	0.0
14718_14217	14718	14217	6,837	253	24.4	6,929	249	24.4	92	-4	0.0
14954_14136	14954	14136	8,556	402	2.5	8,314	399	2.7	-242	-3	0.2
14954_14236	14954	14236	5,421	455	24.8	5,569	440	24.7	148	-15	-0.1
14136_14650	14136	14650	7,825	305	36.0	8,303	307	36.0	478	2	0.0
14137_14650	14137	14650	5,415	444	36.0	5,403	432	36.0	-12	-12	0.0
14137_14718	14137	14718	5,267	348	15.6	5,354	343	15.5	87	-5	0.0
14217_14718	14217	14718	6,191	248	19.3	6,252	294	19.3	61	46	0.0
14136_14954	14136	14954	5,421	455	35.0	5,569	440	35.0	148	-15	0.0
14236_14954	14236	14954	8,556	402	35.0	8,314	399	35.0	-242	-3	0.0

CFA4-4/5 2012 Baseline Traffic Data

Table 1: Traffic data used in the baseline assessment

Road	A node	B node	Without the Proposed Scheme		
			AADT	HDVs	Speed (kph) ¹
32242_32091	32242	32091	3,933	498	8.8
32243_32241	32243	32241	0	0	0.0
32243_32242	32243	32242	0	0	0.0
32269_32091	32269	32091	1,311	494	11.3
32404_32269	32404	32269	734	0	20.6
32613_32241	32613	32241	5,279	515	23.0
32613_32242	32613	32242	4,062	525	24.0
32613_32404	32613	32404	85	29	24.1
32614_32405	32614	32405	736	46	24.1
32790_32270	32790	32270	6,787	402	25.0
32791_32790	32791	32790	667	9	11.7
64069_64068	64069	64068	1,153	427	22.9
64070_64069	64070	64069	40,486	2,211	43.0
64097_64069	64097	64069	47,526	2,322	39.1
64098_64097	64098	64097	44,003	2,079	25.2
64101_64097	64101	64097	17,197	865	15.8

¹ Where speeds are less than 5 kph, a speed of 5 kph is used in the Defra Emissions Factor Toolkit (EFT) v6.o.2 because this is the lowest speed that the EFT can produce output for.

Road	A node	B node	Without the Proposed Scheme		
			AADT	HDVs	Speed (kph) ¹
64166_64076	64166	64076	6,402	207	25.0
64175_64070	64175	64070	40,486	2,211	46.2
64395_64129	64395	64129	6,459	327	10.9
64399_64165	64399	64165	48,666	2,384	25.0
64593_32241	64593	32241	4,270	541	22.5
64593_32614	64593	32614	4,508	179	17.7
64594_64593	64594	64593	568	468	18.6
64596_64594	64596	64594	213	114	19.2
64628_64395	64628	64395	6,213	318	24.5
64628_64627	64628	64627	824	34	22.1
64629_64628	64629	64628	5,081	296	34.0
64630_64629	64630	64629	5,081	296	30.6
64631_64630	64631	64630	811	0	18.3
64632_64631	64632	64631	1,161	0	23.3
64633_64627	64633	64627	350	0	24.4
64633_64631	64633	64631	0	0	0.0
64634_64100	64634	64100	2,867	104	13.9
64634_64632	64634	64632	2,844	167	28.4
64635_64101	64635	64101	9,530	605	7.8
64635_64630	64635	64630	5,081	296	34.1

Road	A node	B node	Without the Proposed Scheme		
			AADT	HDVs	Speed (kph) ¹
64635_64634	64635	64634	599	74	18.0
64638_64598	64638	64598	3,438	192	23.0
64639_64099	64639	64099	4,758	309	21.4
64643_64129	64643	64129	7,988	631	14.5
64645_64638	64645	64638	3,718	101	21.7
64646_64129	64646	64129	260	17	11.2
64638_64632	64638	64632	3,853	160	23.9
64901_32790	64901	32790	10,156	410	22.5
64903_64166	64903	64166	6,402	207	25.0
64904_32091	64904	32091	7,949	344	8.5
64904_32218	64904	32218	42,080	1,925	57.1
64904_64165	64904	64165	40,486	2,211	6.7
64904_64901	64904	64901	20,760	741	30.9
66528_32614	66528	32614	4,777	271	29.4
66528_64129	66528	64129	5,926	297	15.1
66529_66528	66529	66528	480	72	21.6
32091_32242	32091	32242	5,500	545	23.7
32241_32243	32241	32243	334	15	18.7
32242_32243	32242	32243	569	23	19.7
32091_32269	32091	32269	2,825	483	24.2

Road	A node	B node	Without the Proposed Scheme		
			AADT	HDVs	Speed (kph) ¹
32269_32404	32269	32404	2,319	0	21.5
32241_32613	32241	32613	3,767	521	23.2
32242_32613	32242	32613	5,288	542	23.6
32404_32613	32404	32613	371	5	21.8
32405_32614	32405	32614	1,267	21	22.8
32270_32790	32270	32790	7,789	412	23.6
32790_32791	32790	32791	4,188	14	25.0
64069_64097	64069	64097	39,331	1,787	24.4
64097_64098	64097	64098	38,528	1,435	38.9
64098_64099	64098	64099	16,988	1,205	18.3
64099_64100	64099	64100	14,737	890	22.9
64100_64101	64100	64101	10,994	589	17.1
64076_64166	64076	64166	10,187	199	25.0
64165_64175	64165	64175	40,486	2,211	45.7
64129_64395	64129	64395	7,965	402	29.3
32243_64399	32243	64399	154	2	10.1
64069_64399	64069	64399	47,526	2,322	29.6
32241_64593	32241	64593	4,887	524	23.2
32614_64593	32614	64593	3,857	188	23.3
64593_64594	64593	64594	423	346	23.9

Road	A node	B node	Without the Proposed Scheme		
			AADT	HDVs	Speed (kph) ¹
64594_64595	64594	64595	423	346	25.0
64595_64596	64595	64596	344	344	25.0
64395_64628	64395	64628	7,677	397	31.3
64627_64628	64627	64628	2,390	92	20.6
64628_64629	64628	64629	8,124	437	33.4
64629_64630	64629	64630	8,124	437	29.8
64631_64632	64631	64632	0	0	0.0
64627_64633	64627	64633	0	0	0.0
64629_64633	64629	64633	0	0	0.0
64631_64633	64631	64633	350	0	22.7
64100_64634	64100	64634	3,833	303	9.9
64632_64634	64632	64634	3,040	160	15.6
64101_64635	64101	64635	4,702	339	12.9
64630_64635	64630	64635	8,935	437	21.1
64634_64635	64634	64635	185	185	8.1
64598_64638	64598	64638	1,078	84	24.0
64099_64639	64099	64639	6,997	625	34.9
64129_64643	64129	64643	7,138	549	31.8
64129_64646	64129	64646	334	11	30.0
64632_64638	64632	64638	2,495	168	34.3

Road	A node	B node	Without the Proposed Scheme		
			AADT	HDVs	Speed (kph) ¹
32790_64901	32790	64901	7,636	416	16.8
64166_64903	64166	64903	10,187	199	5.0
64901_64903	64901	64903	18,240	747	21.6
32061_64904	32061	64904	37,981	1,895	19.0
32091_64904	32091	64904	5,768	335	3.1
64165_64904	64165	64904	48,137	2,348	3.4
64903_64904	64903	64904	21,458	724	4.8
32614_66528	32614	66528	5,445	226	29.5
64129_66528	64129	66528	5,172	309	29.2
66528_66529	66528	66529	395	38	25.0

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Table 2: Traffic data used in the operational assessment

Road	A node	B node	Without the Proposed Scheme			With the Proposed Scheme			Change in AADT	Change in HDVs	Change in Speed
			AADT	HDVs	Speed (kph) ¹	AADT	HDVs	Speed (kph) ¹			
32242_32091	32242	32091	3,964	514	8.7	3,558	497	8.8	-406	-17	0.1
32243_32241	32243	32241	0	0	0.0	0	0	0.0	0	0	0.0
32243_32242	32243	32242	0	0	0.0	0	0	0.0	0	0	0.0
32269_32091	32269	32091	1,296	504	11.3	1,504	506	11.3	208	1	-0.1
32404_32269	32404	32269	733	3	20.6	894	5	20.5	161	1	-0.1
32613_32241	32613	32241	4,464	565	23.0	4,544	554	22.9	80	-12	0.0
32613_32242	32613	32242	4,464	530	24.0	3,785	509	24.0	-679	-21	0.0
32613_32404	32613	32404	37	1	24.1	38	1	24.1	0	0	0.0
32614_32405	32614	32405	700	37	24.0	601	25	24.1	-99	-12	0.1
32790_32270	32790	32270	6,488	405	25.0	6,509	413	25.0	21	8	0.0
32791_32790	32791	32790	725	20	11.7	725	20	11.7	0	0	0.0
64069_64068	64069	64068	1,232	542	22.9	1,204	537	22.9	-28	-5	0.0
64070_64069	64070	64069	40,497	2,336	43.1	40,745	2,328	42.8	248	-8	-0.3
64097_64069	64097	64069	46,389	2,327	40.4	47,361	2,356	39.6	972	29	-0.8
64098_64097	64098	64097	42,899	2,082	30.6	43,437	2,095	30.3	538	13	-0.3
64101_64097	64101	64097	18,866	915	16.1	19,900	899	16.1	1033	-16	0.1
64166_64076	64166	64076	6,984	204	25.0	7,087	199	25.0	102	-5	0.0

Road	A node	B node	Without the Proposed Scheme			With the Proposed Scheme			Change in AADT	Change in HDVs	Change in Speed
			AADT	HDVs	Speed (kph) ¹	AADT	HDVs	Speed (kph) ¹			
64175_64070	64175	64070	40,497	2,336	46.3	40,745	2,328	46.0	249	-8	-0.2
64319_64129	64319	64129	-	-	-	6,526	364	14.8	-	-	-
64320_32614	64320	32614	-	-	-	3,637	565	29.3	-	-	-
64395_64129	64395	64129	6,551	318	25.4	6,919	298	8.5	368	-21	-16.8
64399_64165	64399	64165	47,586	2,390	29.1	48,702	2,419	27.8	1116	29	-1.3
64593_32241	64593	32241	4,659	544	22.5	3,839	513	22.4	-819	-30	-0.1
64593_32614	64593	32614	3,654	218	18.6	3,968	558	18.1	314	341	-0.5
64594_64593	64594	64593	570	475	18.7	812	714	19.6	242	238	0.9
64596_64594	64596	64594	209	115	19.2	812	714	19.1	603	598	-0.1
64628_64395	64628	64395	6,300	309	24.3	6,678	289	24.2	378	-20	-0.1
64628_64627	64628	64627	826	37	21.7	675	26	21.8	-151	-11	0.0
64629_64628	64629	64628	7,113	335	25.6	7,826	317	25.4	713	-18	-0.3
64630_64629	64630	64629	7,113	335	30.1	7,826	317	29.9	713	-18	-0.2
64631_64630	64631	64630	3,773	35	17.2	3,433	33	16.8	-340	-3	-0.4
64632_64631	64632	64631	3,428	26	23.2	3,091	24	23.3	-338	-2	0.0
64633_64627	64633	64627	0	0	0.0	0	0	24.3	0	0	24.3
64633_64631	64633	64631	352	10	17.7	350	10	17.8	-2	0	0.1
64634_64100	64634	64100	3,005	158	13.9	3,154	168	13.8	149	9	0.0
64634_64632	64634	64632	2,642	166	28.9	2,673	168	28.9	32	2	0.0
64635_64101	64635	64101	11,005	575	7.4	11,773	544	7.3	768	-30	-0.1

Road	A node	B node	Without the Proposed Scheme			With the Proposed Scheme			Change in AADT	Change in HDVs	Change in Speed
			AADT	HDVs	Speed (kph) ¹	AADT	HDVs	Speed (kph) ¹			
64635_64630	64635	64630	5,696	305	34.0	6,623	290	33.9	926	-15	-0.1
64635_64634	64635	64634	561	74	18.2	515	73	18.3	-47	0	0.1
64638_64598	64638	64598	2,642	166	23.6	2,673	168	23.6	32	2	0.0
64639_64099	64639	64099	4,435	339	22.1	4,680	344	22.0	245	4	0.0
64643_64129	64643	64129	9,473	618	25.5	8,495	599	11.9	-978	-18	-13.5
64645_64638	64645	64638	3,663	94	21.2	3,613	92	21.3	-50	-2	0.1
64646_64129	64646	64129	292	16	25.5	292	16	3.7	0	0	-21.9
64638_64632	64638	64632	6,510	241	23.5	6,482	249	23.5	-28	8	0.1
64653_64320	64653	64320	-	-	-	689	361	13.4	-	-	-
64654_64319	64654	64319	-	-	-	2,261	59	16.4	-	-	-
64901_32790	64901	32790	9,908	417	22.5	9,913	425	22.5	5	8	0.0
64903_64166	64903	64166	6,984	204	25.0	7,087	199	25.0	102	-5	0.0
64904_32091	64904	32091	9,652	462	7.9	10,461	464	7.3	809	2	-0.5
64904_32218	64904	32218	41,568	1,969	57.5	41,101	1,954	57.7	-467	-15	0.2
64904_64165	64904	64165	40,497	2,336	6.8	40,745	2,328	6.6	248	-8	-0.1
64904_64901	64904	64901	20,420	765	31.0	20,675	759	30.9	254	-6	0.0
66528_32614	66528	32614	5,335	279	29.4	-	-	0.0	-	-	-29.4
66528_64129	66528	64129	6,062	352	26.4	-	-	0.0	-	-	-26.4
66528_64319	66528	64319	-	-	-	4,265	304	5.5	-	-	-
66528_64320	66528	64320	-	-	-	2,945	207	10.4	-	-	-

Road	A node	B node	Without the Proposed Scheme			With the Proposed Scheme			Change in AADT	Change in HDVs	Change in Speed
			AADT	HDVs	Speed (kph) ²	AADT	HDVs	Speed (kph) ²			
66529_66528	66529	66528	497	70	21.6	492	70	21.7	-5	0	0.1
32091_32242	32091	32242	4,554	554	23.8	4,698	549	23.7	144	-5	0.0
32241_32243	32241	32243	315	14	18.7	358	10	18.7	44	-5	0.0
32242_32243	32242	32243	579	22	19.7	650	27	19.7	71	5	0.0
32091_32269	32091	32269	3,824	530	24.1	4,272	531	24.1	448	2	0.0
32269_32404	32269	32404	3,252	34	21.4	3,699	37	21.4	447	3	0.0
32241_32613	32241	32613	4,135	524	23.2	3,309	500	23.3	-826	-24	0.1
32242_32613	32242	32613	4,441	565	23.7	4,504	553	23.7	63	-12	0.0
32404_32613	32404	32613	388	6	21.8	554	9	21.8	165	3	0.0
32405_32614	32405	32614	1,152	22	22.9	762	11	22.9	-390	-11	0.0
32270_32790	32270	32790	7,847	407	23.7	7,773	399	23.6	-73	-8	0.0
32790_32791	32790	32791	4,233	23	25.0	4,225	23	25.0	-7	0	0.0
64069_64097	64069	64097	39,263	1,796	27.9	39,540	1,793	27.8	277	-4	-0.1
64097_64098	64097	64098	38,925	1,542	37.4	39,583	1,500	36.4	658	-42	-1.1
64098_64099	64098	64099	17,832	1,198	18.0	18,897	1,189	17.7	1065	-9	-0.3
64099_64100	64099	64100	15,177	913	23.0	16,285	905	22.7	1108	-8	-0.3
64100_64101	64100	64101	11,707	677	19.3	12,912	677	20.0	1205	0	0.7
64076_64166	64076	64166	10,371	186	25.0	10,299	186	25.0	-72	0	0.0
64165_64175	64165	64175	40,497	2,336	45.8	40,745	2,328	45.6	248	-8	-0.3
64129_64319	64129	64319	-	-	-	5,360	301	23.4	-	-	-

Road	A node	B node	Without the Proposed Scheme			With the Proposed Scheme			Change in AADT	Change in HDVs	Change in Speed
			AADT	HDVs	Speed (kph) ¹	AADT	HDVs	Speed (kph) ¹			
32614_64320	32614	64320	-	-	-	4,628	590	20.8	-	-	-
64129_64395	64129	64395	9,397	437	29.6	9,594	392	29.3	197	-45	-0.3
32243_64399	32243	64399	129	2	10.8	286	3	9.1	158	1	-1.7
64069_64399	64069	64399	46,389	2,327	33.8	47,362	2,356	32.5	972	29	-1.3
32241_64593	32241	64593	4,049	573	23.2	4,051	559	23.2	2	-14	0.0
32614_64593	32614	64593	4,229	184	23.3	3,780	513	22.1	-449	329	-1.2
64593_64594	64593	64594	423	356	23.9	836	713	23.9	413	358	0.0
64594_64595	64594	64595	423	356	25.0	836	713	25.0	413	358	0.0
64595_64596	64595	64596	354	354	25.0	712	712	25.0	358	358	0.0
64395_64628	64395	64628	9,087	432	19.0	9,395	388	18.5	308	-44	-0.5
64628_64629	64628	64629	8,157	401	33.4	8,852	370	33.3	694	-31	-0.1
64629_64630	64629	64630	8,157	401	29.8	8,852	370	29.6	694	-31	-0.2
64631_64632	64631	64632	7	0	19.2	7	0	19.1	0	0	0.0
64627_64633	64627	64633	352	10	24.2	350	10	24.2	-2	0	0.0
64629_64633	64629	64633	0	0	0.0	0	0	21.7	0	0	21.7
64631_64633	64631	64633	0	0	0.0	0	0	0.0	0	0	0.0
64100_64634	64100	64634	3,629	298	9.8	3,683	300	9.6	54	2	-0.2
64632_64634	64632	64634	3,088	216	15.5	3,399	226	15.3	311	10	-0.2
64101_64635	64101	64635	5,305	347	12.6	6,244	332	12.1	939	-15	-0.5
64630_64635	64630	64635	10,514	406	21.5	11,082	375	21.0	568	-31	-0.5

Road	A node	B node	Without the Proposed Scheme			With the Proposed Scheme			Change in AADT	Change in HDVs	Change in Speed
			AADT	HDVs	Speed (kph) ¹	AADT	HDVs	Speed (kph) ¹			
64634_64635	64634	64635	186	186	8.1	185	185	8.1	0	0	0.0
64598_64638	64598	64638	2,847	147	24.0	2,869	157	24.0	22	10	0.0
64099_64639	64099	64639	7,076	623	34.9	7,278	627	34.9	202	3	0.0
64129_64643	64129	64643	6,867	540	31.9	6,911	574	31.9	44	34	-0.1
64129_64646	64129	64646	367	10	30.0	367	10	30.0	0	0	0.0
64632_64638	64632	64638	2,642	166	34.3	2,673	168	34.3	32	2	0.0
64320_64653	64320	64653	-	-	-	856	356	30.0	-	-	-
64319_64654	64319	64654	-	-	-	2,058	57	30.0	-	-	-
32790_64901	32790	64901	7,759	417	16.8	7,674	409	16.7	-85	-9	-0.1
64166_64903	64166	64903	10,371	186	7.1	10,299	186	7.4	-71	0	0.3
64901_64903	64901	64903	18,271	766	21.7	18,435	743	21.7	164	-23	0.0
32061_64904	32061	64904	37,294	2,067	21.4	37,405	2,048	20.5	110	-19	-1.0
32091_64904	32091	64904	5,972	347	3.9	5,734	332	3.0	-237	-14	-0.9
64165_64904	64165	64904	47,586	2,390	3.5	48,704	2,419	3.4	1117	29	-0.1
64903_64904	64903	64904	21,369	742	5.0	21,390	725	4.8	21	-17	-0.2
32614_66528	32614	66528	5,564	282	29.5	-	-	0.0	-	-	-29.5
64129_66528	64129	66528	5,746	316	29.2	-	-	0.0	-	-	-29.2
64319_66528	64319	66528	-	-	-	3,302	244	31.4	-	-	-
64320_66528	64320	66528	-	-	-	3,772	234	33.4	-	-	-
66528_66529	66528	66529	412	37	25.0	357	37	25.0	-55	0	0.0

CFA5-4/5 2012 Baseline Traffic Data

Table 1: Traffic data used in the baseline assessment

Road	A node	B node	Without the Proposed Scheme		
			AADT	HDVs	Speed (kph) ¹
64068_64067	64068	64067	4,639	445	11.1
64069_64068	64069	64068	1,153	427	22.9
64070_64069	64070	64069	40,486	2,211	43.0
64071_64068	64071	64068	1,667	0	22.9
64096_64067	64096	64067	7,704	400	13.1
64098_64097	64098	64097	44,003	2,079	25.2
64215_64096	64215	64096	10,323	599	24.5
64215_64098	64215	64098	24,032	1,823	7.2
64246_64231	64246	64231	3,067	215	10.3
64261_64246	64261	64246	5,646	77	17.0
64339_64080	64339	64080	48,090	1,839	50.6
64339_64338	64339	64338	1	0	25.0
64341_64339	64341	64339	46,107	1,791	55.3
64341_64340	64341	64340	2,068	109	22.4
64342_64341	64342	64341	43,651	1,592	43.3
64358_64080	64358	64080	30,023	856	22.1

¹ Where speeds are less than 5 kph, a speed of 5 kph is used in the Defra Emissions Factor Toolkit (EFT) v6.o.2 because this is the lowest speed that the EFT can produce output for.

Road	A node	B node	Without the Proposed Scheme		
			AADT	HDVs	Speed (kph) ¹
64359_64080	64359	64080	16,391	1,211	27.7
64386_64098	64386	64098	39,809	1,632	45.7
64608_64096	64608	64096	8,769	523	8.4
64609_64342	64609	64342	3,285	68	8.6
64639_64099	64639	64099	4,758	309	21.4
64650_64341	64650	64341	6,614	422	5.3
64650_64386	64650	64386	39,809	1,632	60.2
64651_64650	64651	64650	6,614	422	4.0
66012_64359	66012	64359	5,855	302	6.2
66502_64246	66502	64246	1,010	195	24.2
66502_66012	66502	66012	5,923	374	20.4
64067_64068	64067	64068	1,709	70	22.7
64068_64071	64068	64071	201	23	25.0
64080_64095	64080	64095	15,903	1,048	52.0
64067_64096	64067	64096	11,814	952	11.0
64097_64098	64097	64098	38,528	1,435	38.9
64080_64102	64080	64102	32,187	791	42.5
64096_64215	64096	64215	19,759	1,434	21.2
64097_64215	64097	64215	14,715	991	29.9
64231_64246	64231	64246	2,320	249	23.9

Road	A node	B node	Without the Proposed Scheme		
			AADT	HDVs	Speed (kph) ¹
64246_64261	64246	64261	2,692	139	25.0
64338_64339	64338	64339	501	25	23.5
64340_64341	64340	64341	0	0	4.2
64098_64342	64098	64342	41,323	1,597	56.9
64023_64358	64023	64358	35,533	1,150	39.7
64156_64359	64156	64359	12,379	959	24.8
64358_64359	64358	64359	5,510	294	19.8
64080_64385	64080	64385	46,422	2,054	56.2
64096_64608	64096	64608	3,435	255	24.4
64342_64609	64342	64609	873	48	20.0
64099_64639	64099	64639	6,997	625	34.9
64385_64650	64385	64650	39,809	1,632	25.4
64385_64651	64385	64651	6,614	422	40.0
64359_66012	64359	66012	7,352	347	18.7
64246_66502	64246	66502	3,210	173	23.4
66012_66502	66012	66502	7,422	416	20.5

CFA5-4/5 2026 Operational Traffic Data

Table 2: Traffic data used in the operational assessment

Road	A node	B node	Without the Proposed Scheme			With the Proposed Scheme			Change in AADT	Change in HDVs	Change in Speed
			AADT	HDVs	Speed (kph) ¹	AADT	HDVs	Speed (kph) ¹			
64068_64067	64068	64067	4,345	562	11.7	4,427	557	11.6	81	-4	-0.1
64069_64068	64069	64068	1,232	542	22.9	1,204	537	22.9	-28	-5	0.0
64070_64069	64070	64069	40,497	2,336	43.1	40,745	2,328	42.8	248	-8	-0.3
64071_64068	64071	64068	1,132	0	22.9	1,354	0	22.9	223	0	0.0
64096_64067	64096	64067	8,942	437	10.7	8,875	432	10.9	-67	-5	0.2
64098_64097	64098	64097	42,899	2,082	30.6	43,437	2,095	30.3	538	13	-0.3
64215_64096	64215	64096	11,297	563	24.9	11,157	558	24.9	-140	-6	0.0
64215_64098	64215	64098	23,835	1,814	7.5	24,309	1,828	7.3	474	14	-0.2
64246_64231	64246	64231	2,792	111	10.4	2,714	112	10.5	-77	0	0.1
64261_64246	64261	64246	5,624	74	17.1	5,624	74	17.1	0	0	0.0
64339_64080	64339	64080	48,754	1,943	50.5	49,404	1,906	50.3	651	-37	-0.3
64339_64338	64339	64338	1	0	25.0	1	0	25.0	0	0	0.0
64341_64339	64341	64339	46,792	1,899	55.2	47,426	1,862	55.0	634	-37	-0.2
64341_64340	64341	64340	2,021	106	22.4	2,015	105	22.4	-6	-1	0.0
64342_64341	64342	64341	44,338	1,718	43.3	44,999	1,681	43.0	661	-37	-0.3
64358_64080	64358	64080	29,857	823	23.1	30,485	815	22.4	628	-8	-0.7
64359_64080	64359	64080	16,398	1,243	27.8	16,822	1,246	27.6	424	3	-0.2
64386_64098	64386	64098	39,622	1,660	46.0	40,732	1,658	45.6	1110	-2	-0.4

Road	A node	B node	Without the Proposed Scheme			With the Proposed Scheme			Change in AADT	Change in HDVs	Change in Speed
			AADT	HDVs	Speed (kph) ¹	AADT	HDVs	Speed (kph) ¹			
64608_64096	64608	64096	8,657	511	8.9	8,687	510	8.6	31	-1	-0.3
64609_64342	64609	64342	3,564	60	9.4	3,534	57	9.5	-30	-3	0.2
64639_64099	64639	64099	4,435	339	22.1	4,680	344	22.0	245	4	0.0
64650_64341	64650	64341	6,640	394	5.5	6,584	390	5.6	-56	-4	0.1
64650_64386	64650	64386	39,622	1,660	60.3	40,732	1,658	59.9	1110	-2	-0.5
64651_64650	64651	64650	6,640	394	4.1	6,584	390	4.1	-56	-4	0.0
66012_64359	66012	64359	6,078	331	6.1	6,141	329	5.8	63	-3	-0.3
66502_64246	66502	64246	700	86	23.9	698	87	23.9	-2	0	0.0
66502_66012	66502	66012	5,982	395	20.4	6,047	392	20.4	66	-3	0.0
64067_64068	64067	64068	1,639	46	22.7	1,658	46	22.7	19	0	0.0
64068_64071	64068	64071	119	0	25.0	137	0	25.0	17	0	0.0
64080_64095	64080	64095	15,866	1,082	52.0	16,058	1,074	52.0	192	-8	0.0
64067_64096	64067	64096	11,426	959	12.2	11,521	962	11.9	96	3	-0.3
64097_64098	64097	64098	38,925	1,542	37.4	39,583	1,500	36.4	658	-42	-1.1
64080_64102	64080	64102	32,888	861	42.4	33,346	832	42.1	459	-29	-0.3
64096_64215	64096	64215	19,293	1,439	21.7	19,407	1,441	21.6	113	2	-0.1
64097_64215	64097	64215	15,963	941	27.7	16,182	947	27.7	219	6	0.0
64231_64246	64231	64246	2,185	202	23.9	2,183	202	23.9	-2	0	0.0
64246_64261	64246	64261	2,683	132	25.0	2,679	132	25.0	-4	0	0.0
64338_64339	64338	64339	491	22	23.5	492	22	23.5	0	0	0.0

Road	A node	B node	Without the Proposed Scheme			With the Proposed Scheme			Change in AADT	Change in HDVs	Change in Speed
			AADT	HDVs	Speed (kph) ¹	AADT	HDVs	Speed (kph) ¹			
64340_64341	64340	64341	5	0	4.3	2	0	4.0	-3	0	-0.3
64098_64342	64098	64342	41,650	1,728	57.0	42,281	1,692	56.7	632	-36	-0.3
64023_64358	64023	64358	35,492	1,103	40.7	36,071	1,087	40.4	578	-15	-0.3
64156_64359	64156	64359	12,199	968	25.3	12,518	974	23.9	320	7	-1.4
64358_64359	64358	64359	5,635	279	19.7	5,586	272	19.8	-50	-7	0.0
64080_64385	64080	64385	46,262	2,055	56.4	47,315	2,048	55.9	1053	-7	-0.5
64096_64608	64096	64608	3,311	179	24.4	3,242	176	24.4	-69	-3	0.0
64342_64609	64342	64609	828	45	20.0	802	45	20.0	-26	1	0.0
64099_64639	64099	64639	7,076	623	34.9	7,278	627	34.9	202	3	0.0
64385_64650	64385	64650	39,622	1,660	25.6	40,732	1,658	25.0	1110	-2	-0.5
64385_64651	64385	64651	6,640	394	40.0	6,584	390	40.0	-56	-4	0.0
64359_66012	64359	66012	7,511	337	18.7	7,421	331	18.7	-90	-7	0.0
64246_66502	64246	66502	3,031	121	23.4	3,109	121	23.4	78	0	0.0
66012_66502	66012	66502	7,449	399	20.5	7,359	392	20.5	-90	-7	0.0

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