

MONA OFFSHORE WIND PROJECT

Environmental Statement

Volume 7, Annex 8.6: Traffic flows with construction traffic

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F01

Image of an offshore wind farm

Image of an offshore wind farm

MONA OFFSHORE WIND PROJECT

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MONA OFFSHORE WIND PROJECT

Glossary

| Term | Meaning |
|----------------------------|---|
| Mona Offshore Wind Project | The Mona Offshore Wind Project is comprised of both the generation assets and offshore and onshore transmission assets and associated activities. |

Acronyms

| Acronym | Description |
|---------|------------------------------|
| AADT | Annual Average Daily Traffic |
| HGV | Heavy Goods Vehicle |

1 Traffic flows with construction traffic

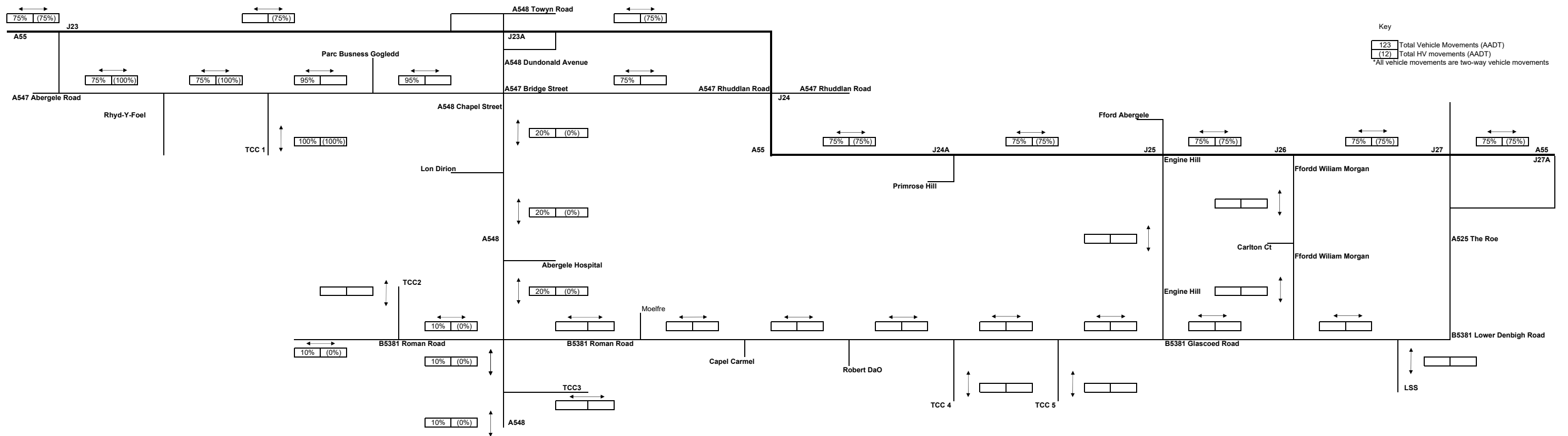
- 1.1.1.1 This annex presents the traffic flow scenarios that include the Mona Offshore Wind Project construction traffic flows and the cumulative development traffic flows which have informed the assessments presented in Volume 3, Chapter 8: Traffic and transport of the Environmental Statement.
- 1.1.1.2 All traffic flows are presented in terms of total vehicles and as their Heavy Goods Vehicle (HGV) components along with interim presentations of light vehicle movements.
- 1.1.1.3 Appendix A of this annex presents the Mona Offshore Wind Project construction traffic flows in line with the assumptions set out in section 8.7 of Volume 3, Chapter 8: Traffic and transport of the Environmental Statement in an Annual Average Daily Traffic (AADT) format.
- 1.1.1.4 Appendix B of this annex presents the Mona Offshore Wind Project construction traffic flows during the weekday AM and PM highway network peak hour traffic flows that have been used to assess driver delay in section 8.9.3 of Volume 3, Chapter 8: Traffic and transport of the Environmental Statement.
- 1.1.1.5 Appendix C of this annex presents the weekday AM and PM peak hour traffic flows for each committed development included within Table 8.10 and section 8.5.6 of Volume 3, Chapter 8: Traffic and transport of the Environmental Statement. These traffic flows have been used to assess the impact upon driver delay in section 8.9.3 of Volume 3, Chapter 8: Traffic and transport of the Environmental Statement.
- 1.1.1.6 Appendix D of this annex contains the cumulative development traffic flows in AADT format for each cumulative development included within section 8.10.1 of Volume 3, Chapter 8: Traffic and transport of the Environmental Statement.
- 1.1.1.7 Appendix E of this annex presents the cumulative development traffic flows during the weekday AM and PM peak hours for each cumulative development included within section 8.10.1 of Volume 3, Chapter 8: Traffic and transport of the Environmental Statement. These traffic flows have been used to assess the cumulative impact upon driver delay presented in section 8.11.3 of Volume 3, Chapter 8: Traffic and transport of the Environmental Statement.

Appendix A: Mona Offshore Wind Project construction traffic flows (AADT)

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Landfall distribution and assignment network diagram

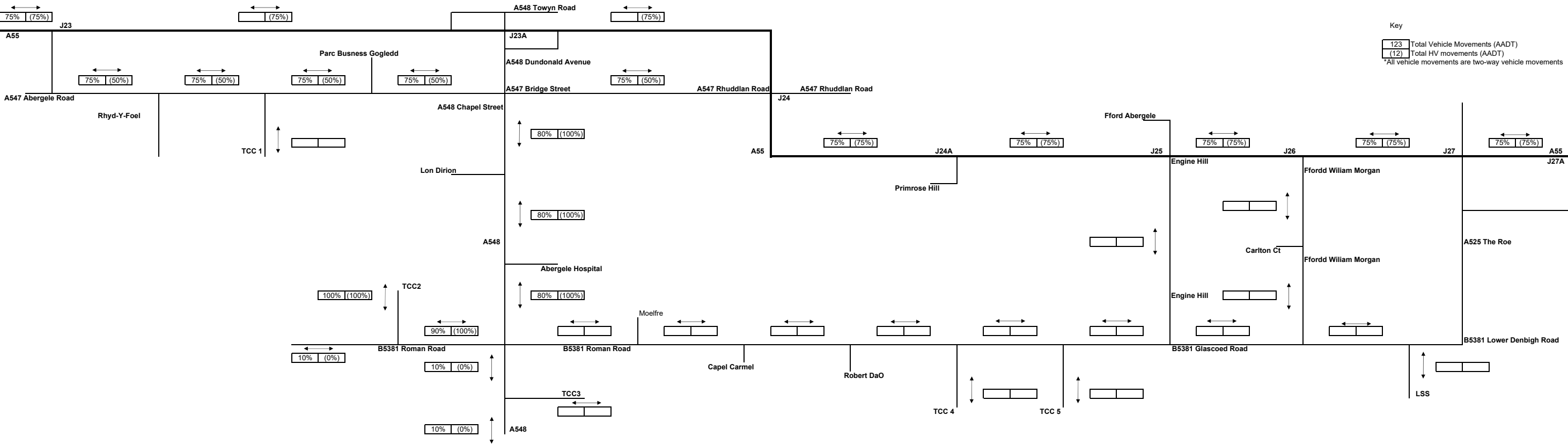
Temporary construction compound 1 distribution and assignment network diagram



Temporary construction compound 1 distribution and assignment network diagram

Temporary construction compound 2 distribution and assignment network diagram

Distribution asuumes right in and right out movements only through A547 / A548 signalised junction. Arrivals of HVs from west along A547, departures of HVs to the east along A547.



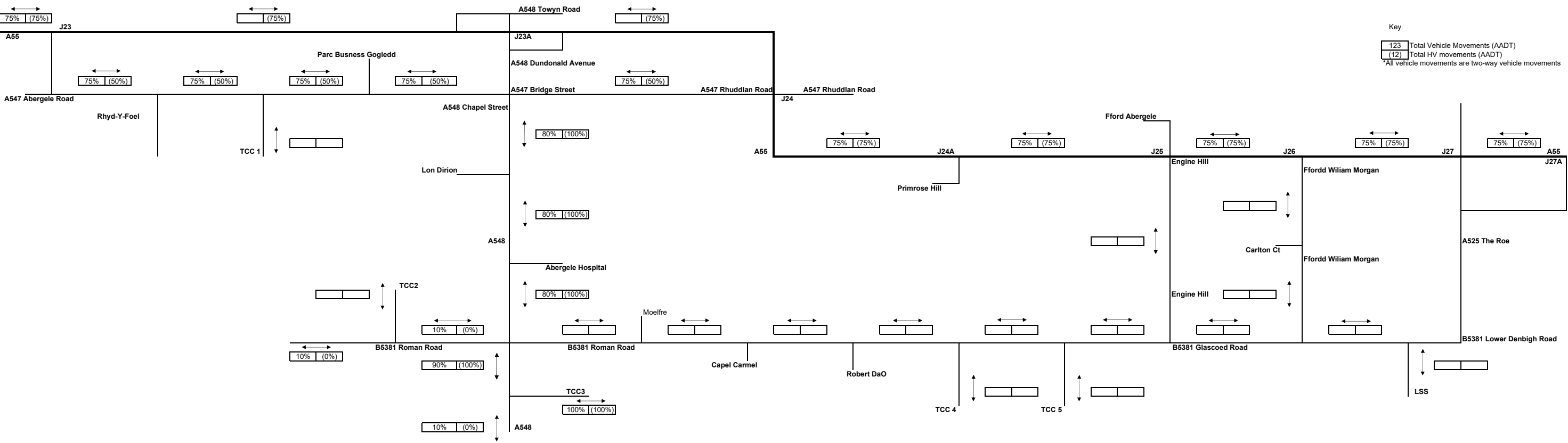
TCC 2 assignment table

| Total HV HV Percentage | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|------------------------|-------|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|
| Link | Month | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31 | 32 | 33 |
| 1 | 75% | 20 | 20 | 20 | 56 | 47 | 47 | 32 | 32 | 41 | 16 | 16 | 16 | 13 | 13 | 13 | 13 | 13 | 13 | 13 | 13 | 28 | 28 | 28 | 17 | 17 | 17 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 2 | 75% | 20 | 20 | 20 | 56 | 47 | 47 | 32 | 32 | 41 | 16 | 16 | 16 | 13 | 13 | 13 | 13 | 13 | 13 | 13 | 13 | 28 | 28 | 28 | 17 | 17 | 17 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 3 | 75% | 20 | 20 | 20 | 56 | 47 | 47 | 32 | 32 | 41 | 16 | 16 | 16 | 13 | 13 | 13 | 13 | 13 | 13 | 13 | 13 | 28 | 28 | 28 | 17 | 17 | 17 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 4 | 75% | 20 | 20 | 20 | 56 | 47 | 47 | 32 | 32 | 41 | 16 | 16 | 16 | 13 | 13 | 13 | 13 | 13 | 13 | 13 | 13 | 28 | 28 | 28 | 17 | 17 | 17 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 5 | 75% | 20 | 20 | 20 | 56 | 47 | 47 | 32 | 32 | 41 | 16 | 16 | 16 | 13 | 13 | 13 | 13 | 13 | 13 | 13 | 13 | 28 | 28 | 28 | 17 | 17 | 17 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 6 | 75% | 20 | 20 | 20 | 56 | 47 | 47 | 32 | 32 | 41 | 16 | 16 | 16 | 13 | 13 | 13 | 13 | 13 | 13 | 13 | 13 | 28 | 28 | 28 | 17 | 17 | 17 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 7 | 75% | 20 | 20 | 20 | 56 | 47 | 47 | 32 | 32 | 41 | 16 | 16 | 16 | 13 | 13 | 13 | 13 | 13 | 13 | 13 | 13 | 28 | 28 | 28 | 17 | 17 | 17 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 8 | 50% | 0 | 13 | 13 | 38 | 32 | 32 | 22 | 22 | 27 | 11 | 11 | 11 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 19 | 19 | 19 | 11 | 11 | 11 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 9a | 50% | 13 | 13 | 13 | 38 | 32 | 32 | 22 | 22 | 27 | 11 | 11 | 11 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 19 | 19 | 19 | 11 | 11 | 11 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 9b | 50% | 13 | 13 | 13 | 38 | 32 | 32 | 22 | 22 | 27 | 11 | 11 | 11 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 19 | 19 | 19 | 11 | 11 | 11 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 10 | 50% | 13 | 13 | 13 | 38 | 32 | 32 | 22 | 22 | 27 | 11 | 11 | 11 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 19 | 19 | 19 | 11 | 11 | 11 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 11 | 50% | 13 | 13 | 13 | 38 | 32 | 32 | 22 | 22 | 27 | 11 | 11 | 11 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 19 | 19 | 19 | 11 | 11 | 11 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 12 | 100% | 26 | 26 | 26 | 75 | 63 | 63 | 43 | 43 | 54 | 21 | 21 | 21 | 17 | 17 | 17 | 17 | 17 | 17 | 17 | 17 | 37 | 37 | 37 | 22 | 22 | 22 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 13 | 100% | 26 | 26 | 26 | 75 | 63 | 63 | 43 | 43 | 54 | 21 | 21 | 21 | 17 | 17 | 17 | 17 | 17 | 17 | 17 | 17 | 37 | 37 | 37 | 22 | 22 | 22 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 14 | 100% | 26 | 26 | 26 | 75 | 63 | 63 | 43 | 43 | 54 | 21 | 21 | 21 | 17 | 17 | 17 | 17 | 17 | 17 | 17 | 17 | 37 | 37 | 37 | 22 | 22 | 22 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 15 | 0% | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 16 | 0% | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 17 | 0% | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 18a | 0% | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 18b | 0% | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 18c | 0% | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 19 | 0% | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 20 | 0% | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 21 | 0% | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 22 | 0% | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 23 | 0% | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |

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Temporary construction compound 3 distribution and assignment network diagram

Distribution assumes right in and right out movements only through A547 / A548 signalised junction. Arrivals of HVs from west along A547, departures of HVs to the east along A547.



Temporary construction compound 3 distribution and assignment network diagram

TCC 3 assignment table

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TCC 3 assignment table

The diagram illustrates the road network in the Aberystwyth area, showing major roads, junctions, and traffic flow data. The roads are color-coded: red for major roads (A-roads), green for secondary roads (B-roads), and blue for minor roads (C-roads). Junctions are marked with yellow diamonds. Traffic flow data is provided for many segments, including percentages and AADT values. A key in the top right corner explains the symbols used for traffic flow data.

Key:

- 123 Total Vehicle Movements (AADT)
- 12 Total HV movements (AADT)
- All vehicle movements are two-way vehicle movements

Major Roads and Junctions:

- A547:** Abergele Road, Bridge Street, Rhuddlan Road.
- A548:** Towyn Road, Dundonald Avenue, Chapel Street, Moelfre.
- A549:** Glascoed Road.
- B5381:** Roman Road, Lower Denbigh Road.

Junctions: J23, J24, J25, J26, J27, J27A.

Landmarks and Other Features: Abergele Hospital, Moelfre, Capel Carmel, Robert Da'O, LSS, TCC 1, TCC 2, TCC 3, TCC 4, TCC 5.

Traffic Flow Data (AADT):

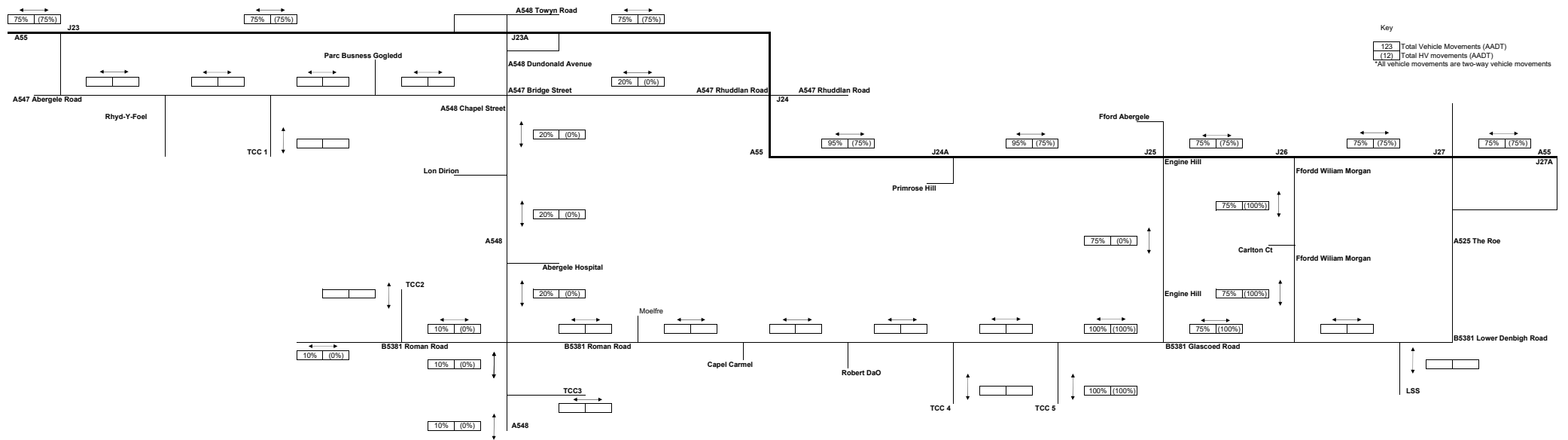
- A547 Towyn Road: 75% (75%)
- A548 Dundonald Avenue: 20% (0%)
- A547 Rhuddlan Road: 95% (75%)
- A548 Chapel Street: 20% (0%)
- A548 Moelfre: 10% (0%)
- B5381 Roman Road: 10% (0%)
- A549 Glascoed Road: 75% (100%)
- B5381 Lower Denbigh Road: 100% (100%)

Temporary construction compound 4 distribution and assignment network diagram

TCC 4 assignment table

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Temporary construction compound 5 distribution and assignment network diagram



Temporary construction compound 5 distribution and assignment network diagram

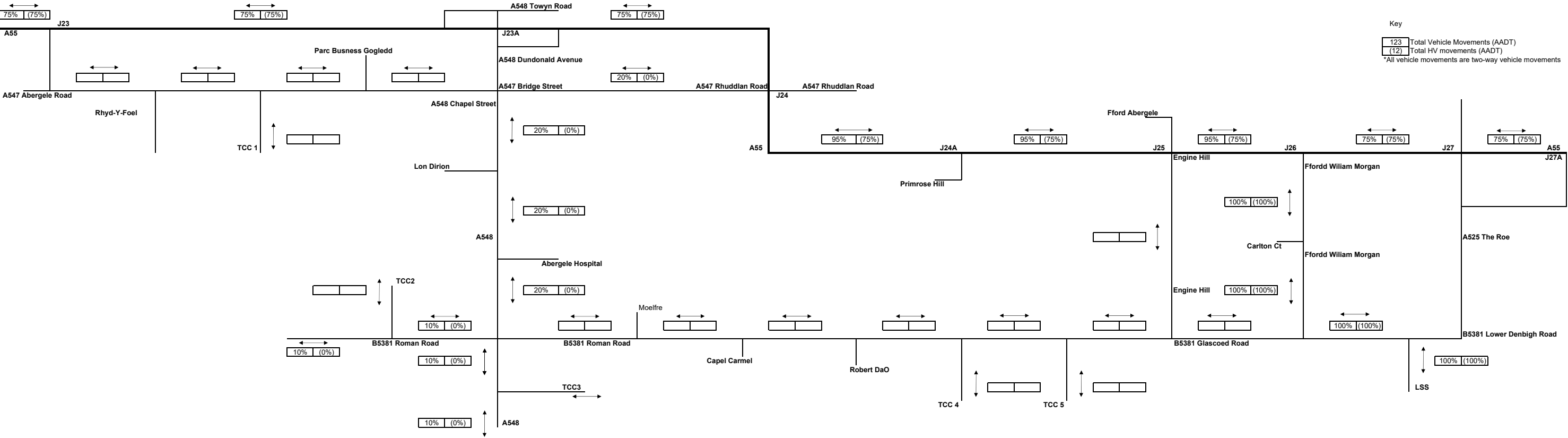
TCC 5 assignment table

| Total HV HV Percentage | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|------------------------|-------|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|
| Link | Month | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31 | 32 | 33 | |
| 1 | 75% | 31 | 31 | 31 | 35 | 20 | 21 | 21 | 21 | 63 | 59 | 44 | 44 | 20 | 20 | 20 | 20 | 20 | 20 | 35 | 35 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 |
| 2 | 75% | 31 | 31 | 31 | 35 | 20 | 21 | 21 | 21 | 63 | 59 | 44 | 44 | 20 | 20 | 20 | 20 | 20 | 20 | 35 | 35 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 |
| 3 | 75% | 31 | 31 | 31 | 35 | 20 | 21 | 21 | 21 | 63 | 59 | 44 | 44 | 20 | 20 | 20 | 20 | 20 | 20 | 35 | 35 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 |
| 4 | 75% | 31 | 31 | 31 | 35 | 20 | 21 | 21 | 21 | 63 | 59 | 44 | 44 | 20 | 20 | 20 | 20 | 20 | 20 | 35 | 35 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 |
| 5 | 75% | 31 | 31 | 31 | 35 | 20 | 21 | 21 | 21 | 63 | 59 | 44 | 44 | 20 | 20 | 20 | 20 | 20 | 20 | 35 | 35 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 |
| 6 | 75% | 31 | 31 | 31 | 35 | 20 | 21 | 21 | 21 | 63 | 59 | 44 | 44 | 20 | 20 | 20 | 20 | 20 | 20 | 35 | 35 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 |
| 7 | 75% | 31 | 31 | 31 | 35 | 20 | 21 | 21 | 21 | 63 | 59 | 44 | 44 | 20 | 20 | 20 | 20 | 20 | 20 | 35 | 35 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 |
| 8 | 0% | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 9a | 0% | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 9b | 0% | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 10 | 0% | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 11 | 0% | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 12 | 0% | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 13 | 0% | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 14 | 0% | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 15 | 0% | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 16 | 0% | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 17 | 0% | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 18a | 0% | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 18b | 0% | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 18c | 100% | 41 | 41 | 41 | 47 | 27 | 28 | 28 | 28 | 84 | 78 | 58 | 58 | 27 | 27 | 27 | 27 | 27 | 27 | 47 | 47 | 11 | 11 | 11 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 |
| 19 | 100% | 41 | 41 | 41 | 47 | 27 | 28 | 28 | 28 | 84 | 78 | 58 | 58 | 27 | 27 | 27 | 27 | 27 | 27 | 47 | 47 | 11 | 11 | 11 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 |
| 20 | 0% | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 21 | 100% | 41 | 41 | 41 | 47 | 27 | 28 | 28 | 28 | 84 | 78 | 58 | 58 | 27 | 27 | 27 | 27 | 27 | 27 | 47 | 47 | 11 | 11 | 11 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 |
| 22 | 100% | 41 | 41 | 41 | 47 | 27 | 28 | 28 | 28 | 84 | 78 | 58 | 58 | 27 | 27 | 27 | 27 | 27 | 27 | 47 | 47 | 11 | 11 | 11 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 |
| 23 | 0% | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |

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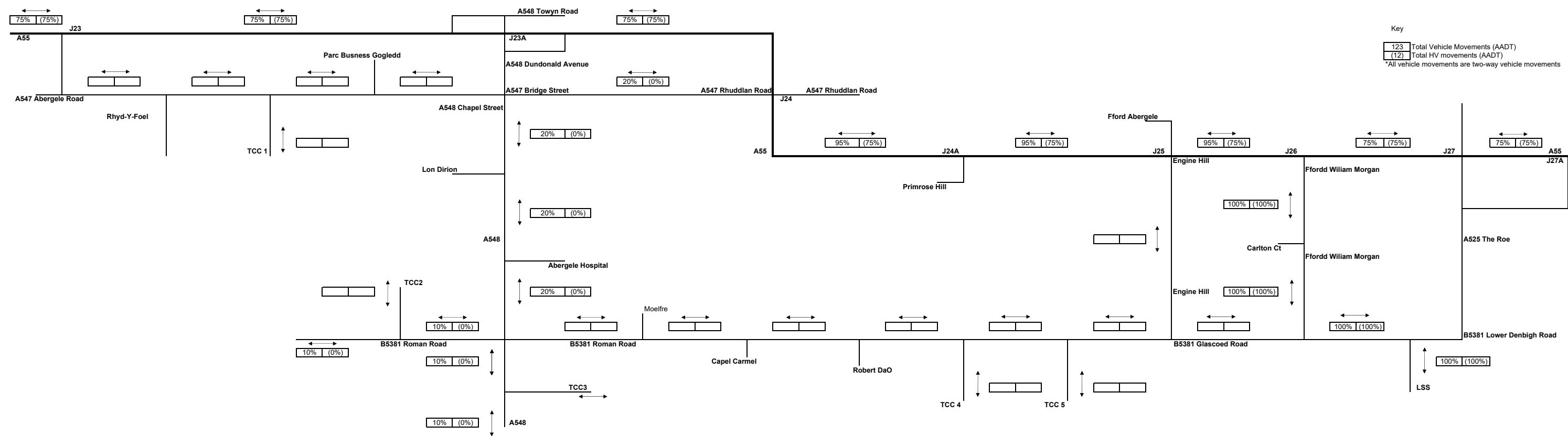
TCC 5 assignment table

400 kV Grid connection cable distribution and assignment network diagram



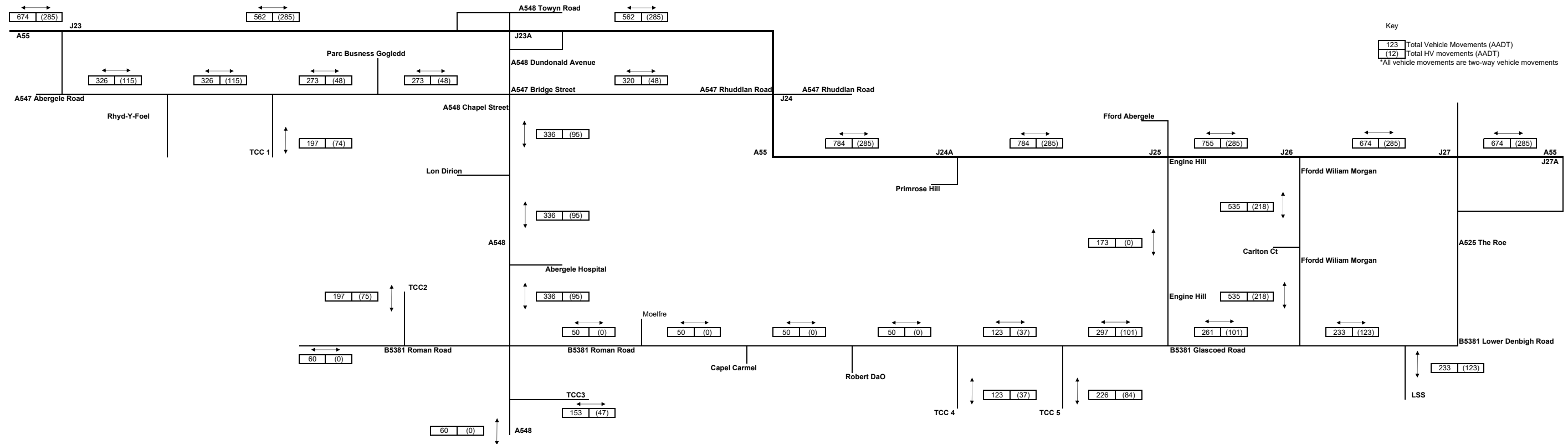
400 kV Grid connection cable distribution and assignment network diagram

Substation distribution and assignment network diagram



Substation distribution and assignment network diagram

Total vehicle generation network diagram (AADT)



Total vehicle generation network diagram (AADT)

Traffic flows with Mona construction and cumulative traffic flows (AADT)

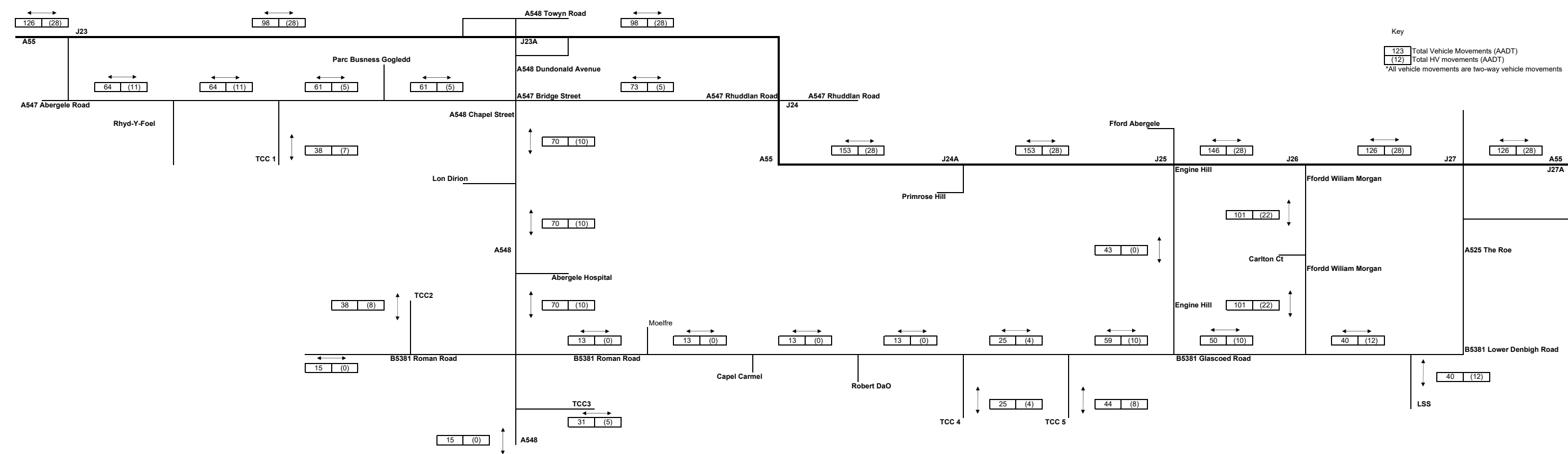
| Link | Link Description | Baseline Traffic Flows | | Mona Construction Traffic Flows | | Baseline plus Mona construction | | Baseline plus cumulative development | |
|------|---|------------------------|-------|---------------------------------|-----|---------------------------------|-------|--------------------------------------|-------|
| | | Total Vehicles | HVs | Total Vehicles | HVs | Total Vehicles | HVs | Total Vehicles | HVs |
| L1 | A55 between Junctions 27 and 27A | 53,774 | 2,467 | 674 | 285 | 54,448 | 2,752 | 54,801 | 2,925 |
| L2 | A55 between Junctions 27 and 26 | 47,854 | 2,457 | 674 | 285 | 48,527 | 2,742 | 48,872 | 2,907 |
| L3 | A55 between Junctions 26 and 25 | 47,854 | 2,457 | 755 | 285 | 48,609 | 2,742 | 48,609 | 2,742 |
| L4 | A55 between Junctions 25 and 24A | 47,854 | 2,457 | 784 | 285 | 48,638 | 2,742 | 48,638 | 2,742 |
| L5 | A55 between Junctions 24A and 24 | 47,854 | 2,457 | 784 | 285 | 48,638 | 2,742 | 48,638 | 2,742 |
| L6 | A55 between Junctions 24 and 23A | 56,720 | 2,236 | 562 | 285 | 57,282 | 2,521 | 57,282 | 2,521 |
| L7 | A55 between Junctions 23A and 23 | 71,493 | 2,551 | 562 | 285 | 72,055 | 2,836 | 72,055 | 2,836 |
| L8 | A547 through Llanddulas | 8,593 | 772 | 326 | 115 | 8,919 | 887 | 8,919 | 887 |
| L9a | A547 between Rhyd-Y-Foel and TCC 1 | 6,998 | 830 | 326 | 115 | 7,324 | 944 | 7,324 | 944 |
| L9b | A547 between TCC1 and Busnes Gogledd Cymru | 6,998 | 830 | 273 | 48 | 7,271 | 877 | 7,271 | 877 |
| L10 | A547 between Parc Busnes Gogledd Cymru and A548 Chapel Street | 9,460 | 857 | 273 | 48 | 9,732 | 905 | 9,732 | 905 |
| L11 | A547 between A548 Chapel Street and A55 | 6,131 | 672 | 320 | 48 | 6,451 | 719 | 6,451 | 719 |
| L12 | A548 Chapel Street between A547 and Lon Dirion | 9,241 | 995 | 336 | 95 | 9,577 | 1,090 | 9,577 | 1,090 |
| L13 | A548 Chapel Street between Lon Dirion and Abergele Hospital | 4,088 | 842 | 336 | 95 | 4,424 | 937 | 4,424 | 937 |
| L14 | A548 Chapel Street between Abergele Hospital and B5381 Roman Road | 2,983 | 470 | 336 | 95 | 3,319 | 565 | 3,319 | 565 |
| L15 | B5381 Roman Road between A548 and Moelfre | 2,018 | 376 | 50 | 0 | 2,068 | 376 | 2,068 | 376 |
| L16 | B5381 Roman Road between Moelfre and Capel Carmel | 1,590 | 229 | 50 | 0 | 1,640 | 229 | 1,640 | 229 |
| L17 | B5381 Roman Road between Capel Carmel and Roberts D a O | 1,624 | 305 | 50 | 0 | 1,674 | 305 | 1,674 | 305 |
| L18a | B5381 Roman Road between Roberts D a O and to TCC 4 | 1,776 | 291 | 50 | 0 | 1,826 | 291 | 1,826 | 291 |
| L18b | B5381 Roman Road between TCC 4 and TCC 5 | 1,776 | 291 | 123 | 37 | 1,899 | 328 | 1,899 | 328 |
| L18c | B5381 Roman Road between TCC 5 and Engine Hill | 1,776 | 291 | 297 | 101 | 2,073 | 392 | 2,073 | 392 |
| L19 | B5381 Glascoed Road between Engine Hill and Ffordd William Morgan | 1,811 | 241 | 261 | 101 | 2,071 | 342 | 2,333 | 485 |
| L20 | B5381 Glascoed Road between Ffordd William Morgan and National Grid Substation access | 4,217 | 509 | 233 | 123 | 4,450 | 632 | 4,519 | 651 |
| L21 | Ffordd William Morgan between A55 and Carlton Court | 4,111 | 420 | 535 | 218 | 4,646 | 637 | 4,991 | 802 |
| L22 | Ffordd William Morgan between Carlton Court and B5381 Glascoed Road | 6,373 | 531 | 535 | 218 | 6,907 | 748 | 7,252 | 913 |
| L23 | Engine Hill between A55 and B5381 Glascoed Road | 3,574 | 579 | 173 | 0 | 3,747 | 579 | 3,747 | 579 |

Appendix B: Mona Offshore Wind Project construction peak hour traffic flows

Mona construction AM + PM peak hour vehicle movements

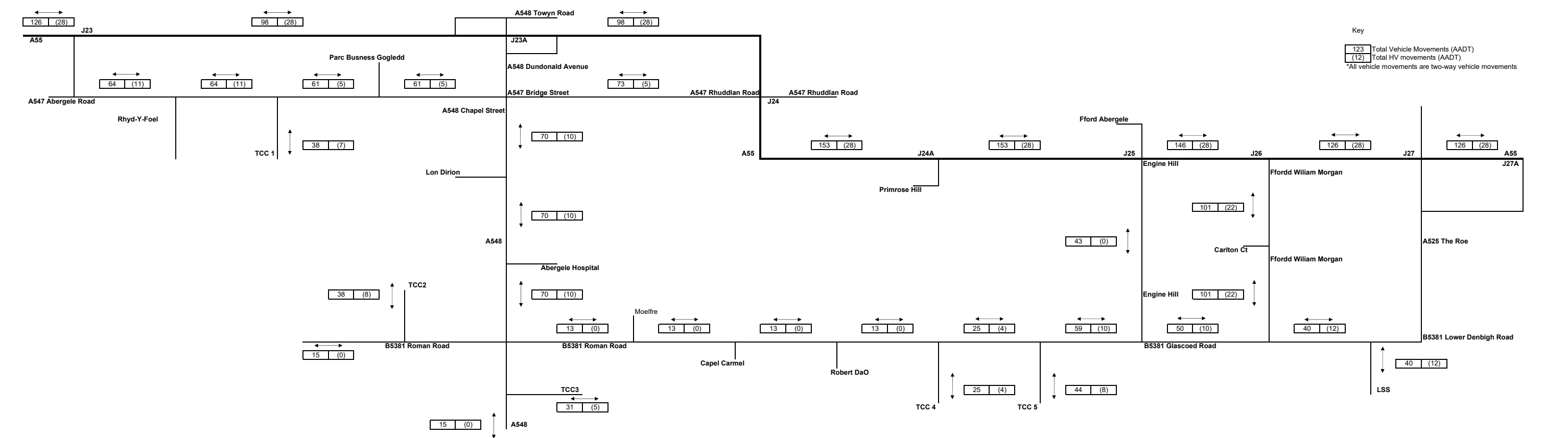
| | | AM peak | | PM peak | |
|------|---|---------------------|----------|---------------------|----------|
| Link | Link | Total vehicles peak | HVs Peak | Total vehicles peak | HVs Peak |
| L1 | A55 between Junctions 27 and 27A | 126 | 28 | 126 | 28 |
| L2 | A55 between Junctions 27 and 26 | 126 | 28 | 126 | 28 |
| L3 | A55 between Junctions 26 and 25 | 146 | 28 | 146 | 28 |
| L4 | A55 between Junctions 25 and 24A | 153 | 28 | 153 | 28 |
| L5 | A55 between Junctions 24A and 24 | 153 | 28 | 153 | 28 |
| L6 | A55 between Junctions 24 and 23A | 98 | 28 | 98 | 28 |
| L7 | A55 between Junctions 23A and 23 | 98 | 28 | 98 | 28 |
| L8 | A547 through Llanddulas | 64 | 11 | 64 | 11 |
| L9a | A547 between Rhyd-Y-Foel and TCC 1 | 64 | 11 | 64 | 11 |
| L9b | A547 between TCC1 and Busnes Gogledd Cymru | 61 | 5 | 61 | 5 |
| L10 | A547 between Parc Busnes Gogledd Cymru and A548 Chapel Street | 61 | 5 | 61 | 5 |
| L11 | A547 between A548 Chapel Street and A55 | 73 | 5 | 73 | 5 |
| L12 | A548 Chapel Street between A547 and Lon Dirion | 70 | 10 | 70 | 10 |
| L13 | A548 Chapel Street between Lon Dirion and Abergele Hospital | 70 | 10 | 70 | 10 |
| L14 | A548 Chapel Street between Abergele Hospital and B5381 Roman Road | 70 | 10 | 70 | 10 |
| L15 | B5381 Roman Road between A548 and Moelfre | 13 | 0 | 13 | 0 |
| L16 | B5381 Roman Road between Moelfre and Capel Carmel | 13 | 0 | 13 | 0 |
| L17 | B5381 Roman Road between Capel Carmel and Roberts D a O | 13 | 0 | 13 | 0 |
| L18a | B5381 Roman Road between Roberts D a O and to TCC 4 | 13 | 0 | 13 | 0 |
| L18b | B5381 Roman Road between TCC 4 and TCC 5 | 25 | 4 | 25 | 4 |
| L18c | B5381 Roman Road between TCC 5 and Engine Hill | 59 | 10 | 59 | 10 |
| L19 | B5381 Glascoed Road between Engine Hill and Ffordd William Morgan | 50 | 10 | 50 | 10 |
| L20 | B5381 Glascoed Road between Ffordd William Morgan and National Grid Substation access | 40 | 12 | 40 | 12 |
| L21 | Ffordd William Morgan between A55 and Carlton Court | 101 | 22 | 101 | 22 |
| L22 | Ffordd William Morgan between Carlton Court and B5381 Glascoed Road | 101 | 22 | 101 | 22 |
| L23 | Engine Hill between A55 and B5381 Glascoed Road | 43 | 0 | 43 | 0 |

Mona construction AM peak hour vehicle movements



Mona construction AM peak hour vehicle movements

Mona construction PM peak hour vehicle movements



Mona construction PM peak hour vehicle movements

Peak hour traffic flows with construction traffic flows at key junctions within the traffic and transport study area

| Junctions Description | 2022 Base AM Peak Hour Traffic Flows | 2022 Base PM Peak Hour Traffic Flows | 2026 Growthed AM Peak Hour Traffic Flows | 2026 Growthed PM Peak Hour Traffic Flows | Committed Development AM Peak Hour Traffic Flows | Committed Development PM Peak Hour Traffic Flows | 2026 Baseline AM Peak Hour Traffic Flows | 2026 Baseline PM Peak Hour Traffic Flows | 2026 Baseline + Mona AM Peak Hour Traffic Flows | 2026 Baseline + Mona PM Peak Hour Traffic Flows |
|--|---|---|---|---|---|---|---|---|--|--|
| A55 junction 26 / Ffordd William Morgan roundabout | 960 | 845 | 991 | 872 | 51 | 56 | 1,042 | 928 | 1,143 | 1,029 |
| A55 junction 24 / A547 Rhuddlan Road roundabout | 2,215 | 2,351 | 2,287 | 2,427 | 3 | 3 | 2,290 | 2,430 | 2,391 | 2,531 |
| A55 junction 23 / A547 Abergele Road roundabout | 1,103 | 1,147 | 1,139 | 1,184 | 0 | 0 | 1,139 | 1,184 | 1,240 | 1,285 |
| A547 Abergele Road / Rhyd-Y-Foel priority junction | 608 | 722 | 621 | 738 | 0 | 0 | 621 | 738 | 722 | 839 |
| A548 / B5381 Roman Road crossroad junction | 392 | 496 | 401 | 508 | 0 | 0 | 401 | 508 | 502 | 609 |
| B5381 Glascoed Road / B5381 Roman Road priority junction | 181 | 171 | 185 | 175 | 4 | 3 | 189 | 178 | 290 | 279 |
| B5381 Glascoed Road / Ffordd William Morgan | 666 | 661 | 682 | 676 | 38 | 32 | 720 | 708 | 821 | 809 |

| | | | | | | | | | | |
|--|-------|-------|-------|-------|---|---|-------|-------|-------|-------|
| A55 junction 24 / A547 Rhuddlan Road - Without A547 / Rhuddlan Road east | 1,428 | 1,566 | 1,474 | 1,617 | 3 | 3 | 1,477 | 1,620 | 1,550 | 1,693 |
| A55 junction 24 / A547 Rhuddlan Road - A547 / Rhuddlan Road west only | 732 | 671 | 756 | 693 | 3 | 3 | 759 | 696 | 831 | 769 |

Peak hour traffic flows with construction traffic flows at key junctions within the traffic and transport study area

Appendix C: Committed development peak hour traffic flows

CEA 179 - Llys Onnen, 22 Water Street, Abergele LL22 7SH - AM and PM peak hour traffic flows

| Link Reference | Description | AM Peak (08:00-09:00) | | PM Peak (17:00-18:00) | |
|----------------|---|-----------------------|-----|-----------------------|-----|
| | | Total | HVs | Total | HVs |
| L1 | A55 between Junctions 27 and 27A | 2 | 0 | 2 | 0 |
| L3 | A55 between Junctions 26 and 25 | 2 | 0 | 2 | 0 |
| L4 | A55 between Junctions 25 and 24A | 2 | 0 | 2 | 0 |
| L5 | A55 between Junctions 24A and 24 | 2 | 0 | 2 | 0 |
| L6 | A55 between Junctions 24 and 23A | 2 | 0 | 2 | 0 |
| L7 | A55 between Junctions 23A and 23 | 2 | 0 | 2 | 0 |
| L8 | A547 through Llanddulas | 0 | 0 | 0 | 0 |
| L9 | A547 between Llanddulas and Parc Busnes Gogledd Cymru | 0 | 0 | 0 | 0 |
| L10 | A547 between Parc Busnes Gogledd Cymru and A548 Chapel Street | 0 | 0 | 0 | 0 |
| L11 | A547 between A548 Chapel Street and A55 | 3 | 0 | 3 | 0 |
| L12 | A548 Chapel Street between A547 and Lon Dirion | 0 | 0 | 0 | 0 |
| L13 | A548 Chapel Street between Lon Dirion and Abergele Hospital | 0 | 0 | 0 | 0 |
| L14 | A548 Chapel Street between Abergele Hospital and B5381 Roman Road | 0 | 0 | 0 | 0 |
| L15 | B5381 Roman Road between A548 and Moelfre | 0 | 0 | 0 | 0 |
| L16 | B5381 Roman Road between Moelfre and Capel Carmel | 0 | 0 | 0 | 0 |
| L17 | B5381 Roman Road between Capel Carmel and Roberts D a O | 0 | 0 | 0 | 0 |
| L18 | B5381 Roman Road between Roberts D a O and Engine Hill | 0 | 0 | 0 | 0 |
| L19 | B5381 Glascoed Road between Engine Hill and Ffordd William Morgan | 0 | 0 | 0 | 0 |
| L20 | B5381 Glascoed Road between Ffordd William Morgan and National Grid Substation access | 0 | 0 | 0 | 0 |
| L21 | Ffordd William Morgan between A55 and Carlton Court | 0 | 0 | 0 | 0 |
| L22 | Ffordd William Morgan between Carlton Court and B5381 Glascoed Road | 0 | 0 | 0 | 0 |
| L23 | Engine Hill between A55 and B5381 Glascoed Road | 0 | 0 | 0 | 0 |

CEA 206 - TRB Drive, St Asaph Business Park, St Asaph, Denbighshire LL17 0JB - AM and PM peak hour traffic flows

| Link Reference | Description | AM Peak (08:00-09:00) | | PM Peak (16:00-17:00) | |
|----------------|---|-----------------------|-----|-----------------------|-----|
| | | Total | HVs | Total | HVs |
| L1 | A55 between Junctions 27 and 27A | 9 | 0 | 14 | 0 |
| L2 | A55 between Junctions 27 and 26 | 9 | 0 | 14 | 0 |
| L3 | A55 between Junctions 26 and 25 | 9 | 0 | 14 | 0 |
| L4 | A55 between Junctions 25 and 24A | 9 | 0 | 14 | 0 |
| L5 | A55 between Junctions 24A and 24 | 9 | 0 | 14 | 0 |
| L6 | A55 between Junctions 24 and 23A | 9 | 0 | 14 | 0 |
| L7 | A55 between Junctions 23A and 23 | 9 | 0 | 14 | 0 |
| L8 | A547 through Llanddulas | 0 | 0 | 0 | 0 |
| L9 | A547 between Llanddulas and Parc Busnes Gogledd Cymru | 0 | 0 | 0 | 0 |
| L10 | A547 between Parc Busnes Gogledd Cymru and A548 Chapel Street | 0 | 0 | 0 | 0 |
| L11 | A547 between A548 Chapel Street and A55 | 0 | 0 | 0 | 0 |
| L12 | A548 Chapel Street between A547 and Lon Dirion | 0 | 0 | 0 | 0 |
| L13 | A548 Chapel Street between Lon Dirion and Abergele Hospital | 0 | 0 | 0 | 0 |
| L14 | A548 Chapel Street between Abergele Hospital and B5381 Roman Road | 0 | 0 | 0 | 0 |
| L15 | B5381 Roman Road between A548 and Moelfre | 0 | 0 | 0 | 0 |
| L16 | B5381 Roman Road between Moelfre and Capel Carmel | 0 | 0 | 0 | 0 |
| L17 | B5381 Roman Road between Capel Carmel and Roberts D a O | 0 | 0 | 0 | 0 |
| L18 | B5381 Roman Road between Roberts D a O and Engine Hill | 0 | 0 | 0 | 0 |
| L19 | B5381 Glascoed Road between Engine Hill and Ffordd William Morgan | 1 | 0 | 1 | 0 |
| L20 | B5381 Glascoed Road between Ffordd William Morgan and National Grid Substation access | 1 | 0 | 1 | 0 |
| L21 | Ffordd William Morgan between A55 and Carlton Court | 19 | 0 | 29 | 0 |
| L22 | Ffordd William Morgan between Carlton Court and B5381 Glascoed Road | 1 | 0 | 1 | 0 |
| L23 | Engine Hill between A55 and B5381 Glascoed Road | 0 | 0 | 0 | 0 |

CEA 207 - Unit 4, Llys Edmund Prys, Parc Busnes Llanelwy, Llanelwy, Denbighshire LL17 0JA - AM and PM peak hour traffic flows

| Link Reference | Description | AM Peak (08:00-09:00) | | PM Peak (17:00-18:00) | |
|----------------|---|-----------------------|-----|-----------------------|-----|
| | | Total | HVs | Total | HVs |
| L1 | A55 between Junctions 27 and 27A | 11 | 0 | 8 | 0 |
| L2 | A55 between Junctions 27 and 26 | 11 | 0 | 8 | 0 |
| L3 | A55 between Junctions 26 and 25 | 11 | 0 | 8 | 0 |
| L4 | A55 between Junctions 25 and 24A | 11 | 0 | 8 | 0 |
| L5 | A55 between Junctions 24A and 24 | 11 | 0 | 8 | 0 |
| L6 | A55 between Junctions 24 and 23A | 11 | 0 | 8 | 0 |
| L7 | A55 between Junctions 23A and 23 | 11 | 0 | 8 | 0 |
| L8 | A547 through Llanddulas | 0 | 0 | 0 | 0 |
| L9 | A547 between Llanddulas and Parc Busnes Gogledd Cymru | 0 | 0 | 0 | 0 |
| L10 | A547 between Parc Busnes Gogledd Cymru and A548 Chapel Street | 0 | 0 | 0 | 0 |
| L11 | A547 between A548 Chapel Street and A55 | 0 | 0 | 0 | 0 |
| L12 | A548 Chapel Street between A547 and Lon Dirion | 0 | 0 | 0 | 0 |
| L13 | A548 Chapel Street between Lon Dirion and Abergele Hospital | 0 | 0 | 0 | 0 |
| L14 | A548 Chapel Street between Abergele Hospital and B5381 Roman Road | 0 | 0 | 0 | 0 |
| L15 | B5381 Roman Road between A548 and Moelfre | 0 | 0 | 0 | 0 |
| L16 | B5381 Roman Road between Moelfre and Capel Carmel | 0 | 0 | 0 | 0 |
| L17 | B5381 Roman Road between Capel Carmel and Roberts D a O | 0 | 0 | 0 | 0 |
| L18 | B5381 Roman Road between Roberts D a O and Engine Hill | 0 | 0 | 0 | 0 |
| L19 | B5381 Glascoed Road between Engine Hill and Ffordd William Morgan | 3 | 0 | 2 | 0 |
| L20 | B5381 Glascoed Road between Ffordd William Morgan and National Grid Substation access | 3 | 0 | 2 | 0 |
| L21 | Ffordd William Morgan between A55 and Carlton Court | 21 | 0 | 15 | 0 |
| L22 | Ffordd William Morgan between Carlton Court and B5381 Glascoed Road | 26 | 0 | 19 | 0 |
| L23 | Engine Hill between A55 and B5381 Glascoed Road | 0 | 0 | 0 | 0 |

CEA 235 - Vista Site, Glascoed Road, St Asaph LL17 0LL - AM and PM peak hour traffic flows

| Link Reference | Description | AM Peak (08:00-09:00) | | PM Peak (17:00-18:00) | |
|----------------|---|-----------------------|-----|-----------------------|-----|
| | | Total | HVs | Total | HVs |
| L1 | A55 between Junctions 27 and 27A | 6 | 0 | 6 | 0 |
| L2 | A55 between Junctions 27 and 26 | 6 | 0 | 6 | 0 |
| L3 | A55 between Junctions 26 and 25 | 6 | 0 | 6 | 0 |
| L4 | A55 between Junctions 25 and 24A | 6 | 0 | 6 | 0 |
| L5 | A55 between Junctions 24A and 24 | 6 | 0 | 6 | 0 |
| L6 | A55 between Junctions 24 and 23A | 6 | 0 | 6 | 0 |
| L7 | A55 between Junctions 23A and 23 | 6 | 0 | 6 | 0 |
| L8 | A547 through Llanddulas | 0 | 0 | 0 | 0 |
| L9 | A547 between Llanddulas and Parc Busnes Gogledd Cymru | 0 | 0 | 0 | 0 |
| L10 | A547 between Parc Busnes Gogledd Cymru and A548 Chapel Street | 0 | 0 | 0 | 0 |
| L11 | A547 between A548 Chapel Street and A55 | 0 | 0 | 0 | 0 |
| L12 | A548 Chapel Street between A547 and Lon Dirion | 0 | 0 | 0 | 0 |
| L13 | A548 Chapel Street between Lon Dirion and Abergele Hospital | 0 | 0 | 0 | 0 |
| L14 | A548 Chapel Street between Abergele Hospital and B5381 Roman Road | 0 | 0 | 0 | 0 |
| L15 | B5381 Roman Road between A548 and Moelfre | 0 | 0 | 0 | 0 |
| L16 | B5381 Roman Road between Moelfre and Capel Carmel | 0 | 0 | 0 | 0 |
| L17 | B5381 Roman Road between Capel Carmel and Roberts D a O | 0 | 0 | 0 | 0 |
| L18 | B5381 Roman Road between Roberts D a O and Engine Hill | 0 | 0 | 0 | 0 |
| L19 | B5381 Glascoed Road between Engine Hill and Ffordd William Morgan | 0 | 0 | 0 | 0 |
| L20 | B5381 Glascoed Road between Ffordd William Morgan and National Grid Substation access | 11 | 0 | 12 | 0 |
| L21 | Ffordd William Morgan between A55 and Carlton Court | 11 | 0 | 12 | 0 |
| L22 | Ffordd William Morgan between Carlton Court and B5381 Glascoed Road | 11 | 0 | 12 | 0 |
| L23 | Engine Hill between A55 and B5381 Glascoed Road | 0 | 0 | 0 | 0 |

CEA 242 Ty Tyn Farm, Upper Denbigh Road, St Asaph, Denbighshire LL17 0FE - AM and PM peak hour traffic flows

| Link Reference | Description | AM Peak (08:00-09:00) | | PM Peak (17:00-18:00) | |
|----------------|---|-----------------------|-----|-----------------------|-----|
| | | Total | HVs | Total | HVs |
| L1 | A55 between Junctions 27 and 27A | 19 | 0 | 8 | 0 |
| L2 | A55 between Junctions 27 and 26 | 18 | 0 | 18 | 0 |
| L3 | A55 between Junctions 26 and 25 | 18 | 0 | 18 | 0 |
| L4 | A55 between Junctions 25 and 24A | 18 | 0 | 18 | 0 |
| L5 | A55 between Junctions 24A and 24 | 18 | 0 | 18 | 0 |
| L6 | A55 between Junctions 24 and 23A | 18 | 0 | 18 | 0 |
| L7 | A55 between Junctions 23A and 23 | 18 | 0 | 18 | 0 |
| L8 | A547 through Llanddulas | 0 | 0 | 0 | 0 |
| L9 | A547 between Llanddulas and Parc Busnes Gogledd Cymru | 0 | 0 | 0 | 0 |
| L10 | A547 between Parc Busnes Gogledd Cymru and A548 Chapel Street | 0 | 0 | 0 | 0 |
| L11 | A547 between A548 Chapel Street and A55 | 0 | 0 | 0 | 0 |
| L12 | A548 Chapel Street between A547 and Lon Dirion | 0 | 0 | 0 | 0 |
| L13 | A548 Chapel Street between Lon Dirion and Abergele Hospital | 0 | 0 | 0 | 0 |
| L14 | A548 Chapel Street between Abergele Hospital and B5381 Roman Road | 0 | 0 | 0 | 0 |
| L15 | B5381 Roman Road between A548 and Moelfre | 0 | 0 | 0 | 0 |
| L16 | B5381 Roman Road between Moelfre and Capel Carmel | 0 | 0 | 0 | 0 |
| L17 | B5381 Roman Road between Capel Carmel and Roberts D a O | 0 | 0 | 0 | 0 |
| L18 | B5381 Roman Road between Roberts D a O and Engine Hill | 0 | 0 | 0 | 0 |
| L19 | B5381 Glascoed Road between Engine Hill and Ffordd William Morgan | 0 | 0 | 0 | 0 |
| L20 | B5381 Glascoed Road between Ffordd William Morgan and National Grid Substation access | 0 | 0 | 0 | 0 |
| L21 | Ffordd William Morgan between A55 and Carlton Court | 0 | 0 | 0 | 0 |
| L22 | Ffordd William Morgan between Carlton Court and B5381 Glascoed Road | 0 | 0 | 0 | 0 |
| L23 | Engine Hill between A55 and B5381 Glascoed Road | 0 | 0 | 0 | 0 |

Committed development total AM and PM peak hour traffic flows

| | | AM Peak (08:00-09:00) | | PM Peak (17:00-18:00) | |
|----------------|---|-----------------------|-----|-----------------------|-----|
| Link Reference | Description | Total | HVs | Total | HVs |
| L1 | A55 between Junctions 27 and 27A | 47 | 0 | 38 | 0 |
| L2 | A55 between Junctions 27 and 26 | 46 | 0 | 48 | 0 |
| L3 | A55 between Junctions 26 and 25 | 46 | 0 | 48 | 0 |
| L4 | A55 between Junctions 25 and 24A | 46 | 0 | 48 | 0 |
| L5 | A55 between Junctions 24A and 24 | 46 | 0 | 48 | 0 |
| L6 | A55 between Junctions 24 and 23A | 46 | 0 | 48 | 0 |
| L7 | A55 between Junctions 23A and 23 | 46 | 0 | 48 | 0 |
| L8 | A547 through Llanddulas | 0 | 0 | 0 | 0 |
| L9 | A547 between Llanddulas and Parc Busnes Gogledd Cymru | 0 | 0 | 0 | 0 |
| L10 | A547 between Parc Busnes Gogledd Cymru and A548 Chapel Street | 0 | 0 | 0 | 0 |
| L11 | A547 between A548 Chapel Street and A55 | 3 | 0 | 3 | 0 |
| L12 | A548 Chapel Street between A547 and Lon Dirion | 0 | 0 | 0 | 0 |
| L13 | A548 Chapel Street between Lon Dirion and Abergele Hospital | 0 | 0 | 0 | 0 |
| L14 | A548 Chapel Street between Abergele Hospital and B5381 Roman Road | 0 | 0 | 0 | 0 |
| L15 | B5381 Roman Road between A548 and Moelfre | 0 | 0 | 0 | 0 |
| L16 | B5381 Roman Road between Moelfre and Capel Carmel | 0 | 0 | 0 | 0 |
| L17 | B5381 Roman Road between Capel Carmel and Roberts D a O | 0 | 0 | 0 | 0 |
| L18 | B5381 Roman Road between Roberts D a O and Engine Hill | 0 | 0 | 0 | 0 |
| L19 | B5381 Glascoed Road between Engine Hill and Ffordd William Morgan | 4 | 0 | 3 | 0 |
| L20 | B5381 Glascoed Road between Ffordd William Morgan and National Grid Substation access | 15 | 0 | 15 | 0 |
| L21 | Ffordd William Morgan between A55 and Carlton Court | 51 | 0 | 56 | 0 |
| L22 | Ffordd William Morgan between Carlton Court and B5381 Glascoed Road | 38 | 0 | 32 | 0 |
| L23 | Engine Hill between A55 and B5381 Glascoed Road | 0 | 0 | 0 | 0 |

Peak hour traffic flows at key junctions within the traffic and transport study area

| Junctions Description | 2022 Base AM Peak Hour Traffic Flows | 2022 Base PM Peak Hour Traffic Flows | 2026 Growthed AM Peak Hour Traffic Flows | 2026 Growthed PM Peak Hour Traffic Flows | Committed Development AM Peak Hour Traffic Flows | Committed Development PM Peak Hour Traffic Flows | 2026 Baseline AM Peak Hour Traffic | 2026 Baseline PM Peak Hour Traffic |
|--|---|---|--|--|--|--|--|--|
| A55 junction 26 / Ffordd William Morgan roundabout | 960 | 845 | 991 | 872 | 51 | 56 | 1,042 | 928 |
| A55 junction 24 / A547 Rhuddlan Road roundabout | 2,215 | 2,351 | 2,287 | 2,427 | 3 | 3 | 2,290 | 2,430 |
| A55 junction 23 / A547 Abergele Road roundabout | 1,103 | 1,147 | 1,139 | 1,184 | 0 | 0 | 1,139 | 1,184 |
| A547 Abergele Road / Rhyd-Y-Foel priority junction | 608 | 722 | 621 | 738 | 0 | 0 | 621 | 738 |
| A548 / B5381 Roman Road crossroad junction | 392 | 496 | 401 | 508 | 0 | 0 | 401 | 508 |
| B5381 Glascoed Road / B5381 Roman Road priority junction | 181 | 171 | 185 | 175 | 4 | 3 | 189 | 178 |
| B5381 Glascoed Road / Ffordd William Morgan | 666 | 661 | 682 | 676 | 38 | 32 | 720 | 708 |

| | | | | | | | | |
|--|-------|-------|-------|-------|---|---|-------|-------|
| A55 junction 24 / A547 Rhuddlan Road - Without A547 / Rhuddlan Road east | 1,428 | 1,566 | 1,474 | 1,617 | 3 | 3 | 1,477 | 1,620 |
| A55 junction 24 / A547 Rhuddlan Road - A547 / Rhuddlan Road west only | 732 | 671 | 756 | 693 | 3 | 3 | 759 | 696 |

Appendix D: Cumulative development traffic flows (AADT)

CEA 1 - Awel y Môr Offshore Wind Farm AADT

| Link Reference | Description | AADT | |
|----------------|---|-------|-----|
| | | Total | HVs |
| L1 | A55 between Junctions 27 and 27A | 276 | 146 |
| L2 | A55 between Junctions 27 and 26 | 276 | 146 |
| L3 | A55 between Junctions 26 and 25 | 0 | 0 |
| L4 | A55 between Junctions 25 and 24A | 0 | 0 |
| L5 | A55 between Junctions 24A and 24 | 0 | 0 |
| L6 | A55 between Junctions 24 and 23A | 0 | 0 |
| L7 | A55 between Junctions 23A and 23 | 0 | 0 |
| L8 | A547 through Llanddulas | 0 | 0 |
| L9 | A547 between Llanddulas and Parc Busnes Gogledd Cymru | 0 | 0 |
| L10 | A547 between Parc Busnes Gogledd Cymru and A548 Chapel Street | 0 | 0 |
| L11 | A547 between A548 Chapel Street and A55 | 0 | 0 |
| L12 | A548 Chapel Street between A547 and Lon Dirion | 0 | 0 |
| L13 | A548 Chapel Street between Lon Dirion and Abergele Hospital | 0 | 0 |
| L14 | A548 Chapel Street between Abergele Hospital and B5381 Roman Road | 0 | 0 |
| L15 | B5381 Roman Road between A548 and Moelfre | 0 | 0 |
| L16 | B5381 Roman Road between Moelfre and Capel Carmel | 0 | 0 |
| L17 | B5381 Roman Road between Capel Carmel and Roberts D a O | 0 | 0 |
| L18 | B5381 Roman Road between Roberts D a O and Engine Hill | 0 | 0 |
| L19 | B5381 Glascoed Road between Engine Hill and Ffordd William Morgan | 262 | 143 |
| L20 | B5381 Glascoed Road between Ffordd William Morgan and National Grid Substation access | 0 | 0 |
| L21 | Ffordd William Morgan between A55 and Carlton Court | 276 | 146 |
| L22 | Ffordd William Morgan between Carlton Court and B5381 Glascoed Road | 276 | 146 |
| L23 | Engine Hill between A55 and B5381 Glascoed Road | 0 | 0 |

CEA 33 - St. Asaph Solar Farm AADT

| Link Reference | Description | AADT | |
|----------------|---|-------|-----|
| | | Total | HVs |
| L1 | A55 between Junctions 27 and 27A | 8 | 8 |
| L2 | A55 between Junctions 27 and 26 | 0 | 0 |
| L3 | A55 between Junctions 26 and 25 | 0 | 0 |
| L4 | A55 between Junctions 25 and 24A | 0 | 0 |
| L5 | A55 between Junctions 24A and 24 | 0 | 0 |
| L6 | A55 between Junctions 24 and 23A | 0 | 0 |
| L7 | A55 between Junctions 23A and 23 | 0 | 0 |
| L8 | A547 through Llanddulas | 0 | 0 |
| L9 | A547 between Llanddulas and Parc Busnes Gogledd Cymru | 0 | 0 |
| L10 | A547 between Parc Busnes Gogledd Cymru and A548 Chapel Street | 0 | 0 |
| L11 | A547 between A548 Chapel Street and A55 | 0 | 0 |
| L12 | A548 Chapel Street between A547 and Lon Dirion | 0 | 0 |
| L13 | A548 Chapel Street between Lon Dirion and Abergele Hospital | 0 | 0 |
| L14 | A548 Chapel Street between Abergele Hospital and B5381 Roman Road | 0 | 0 |
| L15 | B5381 Roman Road between A548 and Moelfre | 0 | 0 |
| L16 | B5381 Roman Road between Moelfre and Capel Carmel | 0 | 0 |
| L17 | B5381 Roman Road between Capel Carmel and Roberts D a O | 0 | 0 |
| L18 | B5381 Roman Road between Roberts D a O and Engine Hill | 0 | 0 |
| L19 | B5381 Glascoed Road between Engine Hill and Ffordd William Morgan | 0 | 0 |
| L20 | B5381 Glascoed Road between Ffordd William Morgan and National Grid Substation access | 0 | 0 |
| L21 | Ffordd William Morgan between A55 and Carlton Court | 0 | 0 |
| L22 | Ffordd William Morgan between Carlton Court and B5381 Glascoed Road | 0 | 0 |
| L23 | Engine Hill between A55 and B5381 Glascoed Road | 0 | 0 |

CEA 184 - Bodelwyddan Electricity Substation AADT

| | | AADT | |
|----------------|---|-------|-----|
| Link Reference | Description | Total | HVs |
| L1 | A55 between Junctions 27 and 27A | 69 | 19 |
| L2 | A55 between Junctions 27 and 26 | 69 | 19 |
| L3 | A55 between Junctions 26 and 25 | 0 | 0 |
| L4 | A55 between Junctions 25 and 24A | 0 | 0 |
| L5 | A55 between Junctions 24A and 24 | 0 | 0 |
| L6 | A55 between Junctions 24 and 23A | 0 | 0 |
| L7 | A55 between Junctions 23A and 23 | 0 | 0 |
| L8 | A547 through Llanddulas | 0 | 0 |
| L9 | A547 between Llanddulas and Parc Busnes Gogledd Cymru | 0 | 0 |
| L10 | A547 between Parc Busnes Gogledd Cymru and A548 Chapel Street | 0 | 0 |
| L11 | A547 between A548 Chapel Street and A55 | 0 | 0 |
| L12 | A548 Chapel Street between A547 and Lon Dirion | 0 | 0 |
| L13 | A548 Chapel Street between Lon Dirion and Abergele Hospital | 0 | 0 |
| L14 | A548 Chapel Street between Abergele Hospital and B5381 Roman Road | 0 | 0 |
| L15 | B5381 Roman Road between A548 and Moelfre | 0 | 0 |
| L16 | B5381 Roman Road between Moelfre and Capel Carmel | 0 | 0 |
| L17 | B5381 Roman Road between Capel Carmel and Roberts D a O | 0 | 0 |
| L18 | B5381 Roman Road between Roberts D a O and Engine Hill | 0 | 0 |
| L19 | B5381 Glascoed Road between Engine Hill and Ffordd William Morgan | 0 | 0 |
| L20 | B5381 Glascoed Road between Ffordd William Morgan and National Grid Substation access | 69 | 19 |
| L21 | Ffordd William Morgan between A55 and Carlton Court | 69 | 19 |
| L22 | Ffordd William Morgan between Carlton Court and B5381 Glascoed Road | 69 | 19 |
| L23 | Engine Hill between A55 and B5381 Glascoed Road | 0 | 0 |

Cumulative development total movements AADT

| Link Reference | Description | AADT | |
|----------------|---|-------|-----|
| | | Total | HVs |
| L1 | A55 between Junctions 27 and 27A | 353 | 173 |
| L2 | A55 between Junctions 27 and 26 | 345 | 165 |
| L3 | A55 between Junctions 26 and 25 | 0 | 0 |
| L4 | A55 between Junctions 25 and 24A | 0 | 0 |
| L5 | A55 between Junctions 24A and 24 | 0 | 0 |
| L6 | A55 between Junctions 24 and 23A | 0 | 0 |
| L7 | A55 between Junctions 23A and 23 | 0 | 0 |
| L8 | A547 through Llanddulas | 0 | 0 |
| L9 | A547 between Llanddulas and Parc Busnes Gogledd Cymru | 0 | 0 |
| L10 | A547 between Parc Busnes Gogledd Cymru and A548 Chapel Street | 0 | 0 |
| L11 | A547 between A548 Chapel Street and A55 | 0 | 0 |
| L12 | A548 Chapel Street between A547 and Lon Dirion | 0 | 0 |
| L13 | A548 Chapel Street between Lon Dirion and Abergele Hospital | 0 | 0 |
| L14 | A548 Chapel Street between Abergele Hospital and B5381 Roman Road | 0 | 0 |
| L15 | B5381 Roman Road between A548 and Moelfre | 0 | 0 |
| L16 | B5381 Roman Road between Moelfre and Capel Carmel | 0 | 0 |
| L17 | B5381 Roman Road between Capel Carmel and Roberts D a O | 0 | 0 |
| L18 | B5381 Roman Road between Roberts D a O and Engine Hill | 0 | 0 |
| L19 | B5381 Glascoed Road between Engine Hill and Ffordd William Morgan | 262 | 143 |
| L20 | B5381 Glascoed Road between Ffordd William Morgan and National Grid Substation access | 69 | 19 |
| L21 | Ffordd William Morgan between A55 and Carlton Court | 345 | 165 |
| L22 | Ffordd William Morgan between Carlton Court and B5381 Glascoed Road | 345 | 165 |
| L23 | Engine Hill between A55 and B5381 Glascoed Road | 0 | 0 |

[illegible]

Cumulative developments total movements AADT

Appendix E: Cumulative development peak hour traffic flows

CEA 1 - Awel y Môr Offshore Wind Farm AM and PM peak hours

| Link Reference | Description | AM Peak (08:00-09:00) | | PM Peak (16:00-17:00) | |
|----------------|---|-----------------------|-----|-----------------------|-----|
| | | Total | HVs | Total | HVs |
| L1 | A55 between Junctions 27 and 27A | 25 | 12 | 25 | 12 |
| L2 | A55 between Junctions 27 and 26 | 25 | 12 | 25 | 12 |
| L3 | A55 between Junctions 26 and 25 | 0 | 0 | 0 | 0 |
| L4 | A55 between Junctions 25 and 24A | 0 | 0 | 0 | 0 |
| L5 | A55 between Junctions 24A and 24 | 0 | 0 | 0 | 0 |
| L6 | A55 between Junctions 24 and 23A | 0 | 0 | 0 | 0 |
| L7 | A55 between Junctions 23A and 23 | 0 | 0 | 0 | 0 |
| L8 | A547 through Llanddulas | 0 | 0 | 0 | 0 |
| L9 | A547 between Llanddulas and Parc Busnes Gogledd Cymru | 0 | 0 | 0 | 0 |
| L10 | A547 between Parc Busnes Gogledd Cymru and A548 Chapel Street | 0 | 0 | 0 | 0 |
| L11 | A547 between A548 Chapel Street and A55 | 0 | 0 | 0 | 0 |
| L12 | A548 Chapel Street between A547 and Lon Dirion | 0 | 0 | 0 | 0 |
| L13 | A548 Chapel Street between Lon Dirion and Abergele Hospital | 0 | 0 | 0 | 0 |
| L14 | A548 Chapel Street between Abergele Hospital and B5381 Roman Road | 0 | 0 | 0 | 0 |
| L15 | B5381 Roman Road between A548 and Moelfre | 0 | 0 | 0 | 0 |
| L16 | B5381 Roman Road between Moelfre and Capel Carmel | 0 | 0 | 0 | 0 |
| L17 | B5381 Roman Road between Capel Carmel and Roberts D a O | 0 | 0 | 0 | 0 |
| L18 | B5381 Roman Road between Roberts D a O and Engine Hill | 0 | 0 | 0 | 0 |
| L19 | B5381 Glascoed Road between Engine Hill and Ffordd William Morgan | 24 | 12 | 24 | 12 |
| L20 | B5381 Glascoed Road between Ffordd William Morgan and National Grid Substation access | 0 | 0 | 0 | 0 |
| L21 | Ffordd William Morgan between A55 and Carlton Court | 25 | 12 | 25 | 12 |
| L22 | Ffordd William Morgan between Carlton Court and B5381 Glascoed Road | 25 | 12 | 25 | 12 |
| L23 | Engine Hill between A55 and B5381 Glascoed Road | 0 | 0 | 0 | 0 |

CEA 33 - St. Asaph Solar Farm AM and PM peak hours

| Link Reference | Description | AM Peak (08:00-09:00) | | PM Peak (17:00-18:00) | |
|----------------|---|-----------------------|-----|-----------------------|-----|
| | | Total | HVs | Total | HVs |
| L1 | A55 between Junctions 27 and 27A | 1 | 1 | 1 | 1 |
| L2 | A55 between Junctions 27 and 26 | 0 | 0 | 0 | 0 |
| L3 | A55 between Junctions 26 and 25 | 0 | 0 | 0 | 0 |
| L4 | A55 between Junctions 25 and 24A | 0 | 0 | 0 | 0 |
| L5 | A55 between Junctions 24A and 24 | 0 | 0 | 0 | 0 |
| L6 | A55 between Junctions 24 and 23A | 0 | 0 | 0 | 0 |
| L7 | A55 between Junctions 23A and 23 | 0 | 0 | 0 | 0 |
| L8 | A547 through Llanddulas | 0 | 0 | 0 | 0 |
| L9 | A547 between Llanddulas and Parc Busnes Gogledd Cymru | 0 | 0 | 0 | 0 |
| L10 | A547 between Parc Busnes Gogledd Cymru and A548 Chapel Street | 0 | 0 | 0 | 0 |
| L11 | A547 between A548 Chapel Street and A55 | 0 | 0 | 0 | 0 |
| L12 | A548 Chapel Street between A547 and Lon Dirion | 0 | 0 | 0 | 0 |
| L13 | A548 Chapel Street between Lon Dirion and Abergele Hospital | 0 | 0 | 0 | 0 |
| L14 | A548 Chapel Street between Abergele Hospital and B5381 Roman Road | 0 | 0 | 0 | 0 |
| L15 | B5381 Roman Road between A548 and Moelfre | 0 | 0 | 0 | 0 |
| L16 | B5381 Roman Road between Moelfre and Capel Carmel | 0 | 0 | 0 | 0 |
| L17 | B5381 Roman Road between Capel Carmel and Roberts D a O | 0 | 0 | 0 | 0 |
| L18 | B5381 Roman Road between Roberts D a O and Engine Hill | 0 | 0 | 0 | 0 |
| L19 | B5381 Glascoed Road between Engine Hill and Ffordd William Morgan | 0 | 0 | 0 | 0 |
| L20 | B5381 Glascoed Road between Ffordd William Morgan and National Grid Substation access | 0 | 0 | 0 | 0 |
| L21 | Ffordd William Morgan between A55 and Carlton Court | 0 | 0 | 0 | 0 |
| L22 | Ffordd William Morgan between Carlton Court and B5381 Glascoed Road | 0 | 0 | 0 | 0 |
| L23 | Engine Hill between A55 and B5381 Glascoed Road | 0 | 0 | 0 | 0 |

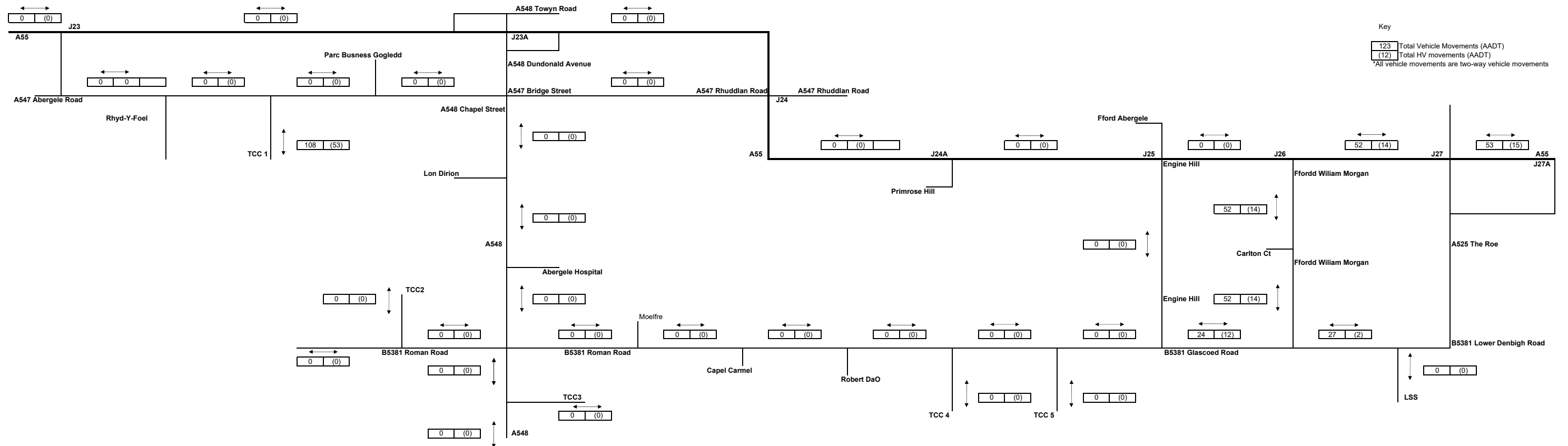
CEA 184 - Bodelwyddan Electricity Substation AM and PM peak hours

| Link Reference | Description | AM Peak (08:00-09:00) | | PM Peak (17:00-18:00) | |
|----------------|---|-----------------------|-----|-----------------------|-----|
| | | Total | HVs | Total | HVs |
| L1 | A55 between Junctions 27 and 27A | 27 | 2 | 27 | 2 |
| L2 | A55 between Junctions 27 and 26 | 27 | 2 | 27 | 2 |
| L3 | A55 between Junctions 26 and 25 | 0 | 0 | 0 | 0 |
| L4 | A55 between Junctions 25 and 24A | 0 | 0 | 0 | 0 |
| L5 | A55 between Junctions 24A and 24 | 0 | 0 | 0 | 0 |
| L6 | A55 between Junctions 24 and 23A | 0 | 0 | 0 | 0 |
| L7 | A55 between Junctions 23A and 23 | 0 | 0 | 0 | 0 |
| L8 | A547 through Llanddulas | 0 | 0 | 0 | 0 |
| L9 | A547 between Llanddulas and Parc Busnes Gogledd Cymru | 0 | 0 | 0 | 0 |
| L10 | A547 between Parc Busnes Gogledd Cymru and A548 Chapel Street | 0 | 0 | 0 | 0 |
| L11 | A547 between A548 Chapel Street and A55 | 0 | 0 | 0 | 0 |
| L12 | A548 Chapel Street between A547 and Lon Dirion | 0 | 0 | 0 | 0 |
| L13 | A548 Chapel Street between Lon Dirion and Abergele Hospital | 0 | 0 | 0 | 0 |
| L14 | A548 Chapel Street between Abergele Hospital and B5381 Roman Road | 0 | 0 | 0 | 0 |
| L15 | B5381 Roman Road between A548 and Moelfre | 0 | 0 | 0 | 0 |
| L16 | B5381 Roman Road between Moelfre and Capel Carmel | 0 | 0 | 0 | 0 |
| L17 | B5381 Roman Road between Capel Carmel and Roberts D a O | 0 | 0 | 0 | 0 |
| L18 | B5381 Roman Road between Roberts D a O and Engine Hill | 0 | 0 | 0 | 0 |
| L19 | B5381 Glascoed Road between Engine Hill and Ffordd William Morgan | 0 | 0 | 0 | 0 |
| L20 | B5381 Glascoed Road between Ffordd William Morgan and National Grid Substation access | 27 | 2 | 27 | 2 |
| L21 | Ffordd William Morgan between A55 and Carlton Court | 27 | 2 | 27 | 2 |
| L22 | Ffordd William Morgan between Carlton Court and B5381 Glascoed Road | 27 | 2 | 27 | 2 |
| L23 | Engine Hill between A55 and B5381 Glascoed Road | 0 | 0 | 0 | 0 |

Cumulative development total AM and PM peak hours

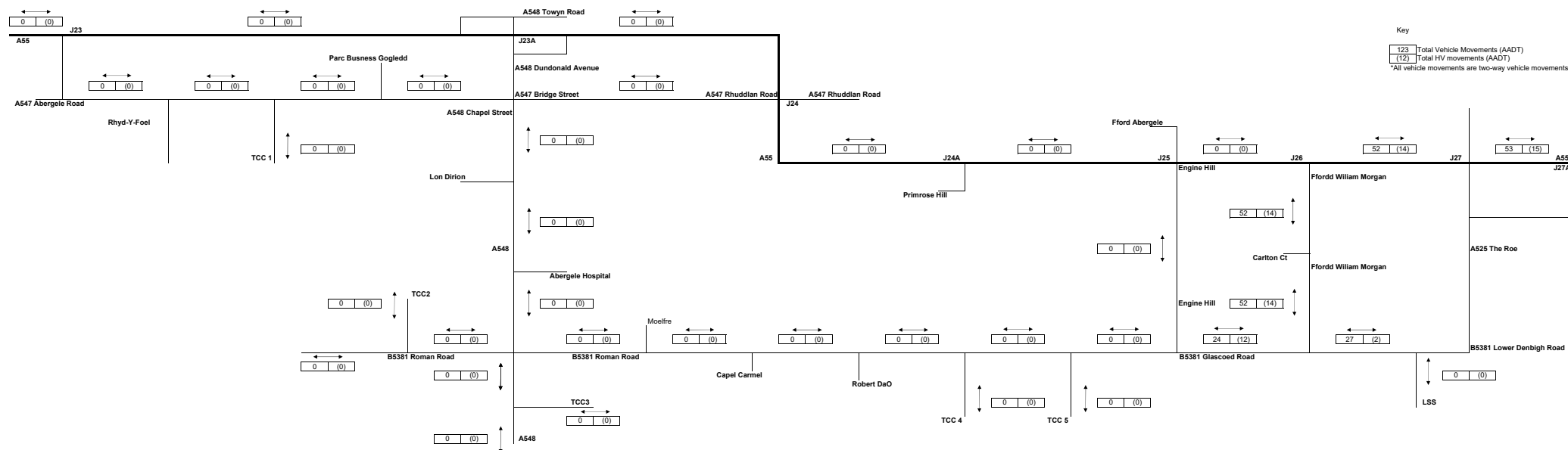
| Link Reference | Description | AM Peak | | PM Peak | |
|----------------|---|---------|-----|---------|-----|
| | | Total | HVs | Total | HVs |
| L1 | A55 between Junctions 27 and 27A | 53 | 15 | 53 | 15 |
| L2 | A55 between Junctions 27 and 26 | 52 | 14 | 52 | 14 |
| L3 | A55 between Junctions 26 and 25 | 0 | 0 | 0 | 0 |
| L4 | A55 between Junctions 25 and 24A | 0 | 0 | 0 | 0 |
| L5 | A55 between Junctions 24A and 24 | 0 | 0 | 0 | 0 |
| L6 | A55 between Junctions 24 and 23A | 0 | 0 | 0 | 0 |
| L7 | A55 between Junctions 23A and 23 | 0 | 0 | 0 | 0 |
| L8 | A547 through Llanddulas | 0 | 0 | 0 | 0 |
| L9 | A547 between Llanddulas and Parc Busnes Gogledd Cymru | 0 | 0 | 0 | 0 |
| L10 | A547 between Parc Busnes Gogledd Cymru and A548 Chapel Street | 0 | 0 | 0 | 0 |
| L11 | A547 between A548 Chapel Street and A55 | 0 | 0 | 0 | 0 |
| L12 | A548 Chapel Street between A547 and Lon Dirion | 0 | 0 | 0 | 0 |
| L13 | A548 Chapel Street between Lon Dirion and Abergele Hospital | 0 | 0 | 0 | 0 |
| L14 | A548 Chapel Street between Abergele Hospital and B5381 Roman Road | 0 | 0 | 0 | 0 |
| L15 | B5381 Roman Road between A548 and Moelfre | 0 | 0 | 0 | 0 |
| L16 | B5381 Roman Road between Moelfre and Capel Carmel | 0 | 0 | 0 | 0 |
| L17 | B5381 Roman Road between Capel Carmel and Roberts D a O | 0 | 0 | 0 | 0 |
| L18 | B5381 Roman Road between Roberts D a O and Engine Hill | 0 | 0 | 0 | 0 |
| L19 | B5381 Glascoed Road between Engine Hill and Ffordd William Morgan | 24 | 12 | 24 | 12 |
| L20 | B5381 Glascoed Road between Ffordd William Morgan and National Grid Substation access | 27 | 2 | 27 | 2 |
| L21 | Ffordd William Morgan between A55 and Carlton Court | 52 | 14 | 52 | 14 |
| L22 | Ffordd William Morgan between Carlton Court and B5381 Glascoed Road | 52 | 14 | 52 | 14 |
| L23 | Engine Hill between A55 and B5381 Glascoed Road | 0 | 0 | 0 | 0 |

Cumulative developments AM peak hour vehicle movements



Cumulative developments AM peak hour vehicle movements

Cumulative developments PM peak hour vehicle movements



Cumulative developments PM peak hour vehicle movements

Peak hour traffic flows with cumulative traffic flows at key junctions within the traffic and transport study area

| Junctions Description | 2022 Base AM Peak Hour Traffic Flows | 2022 Base PM Peak Hour Traffic Flows | 2026 Growthed AM Peak Hour Traffic Flows | 2026 Growthed PM Peak Hour Traffic Flows | Committed Development AM Peak Hour Traffic Flows | Committed Development PM Peak Hour Traffic Flows | 2026 Baseline AM Peak Hour Traffic Flows | 2026 Baseline PM Peak Hour Traffic Flows | 2026 Baseline + Mona AM Peak Hour Traffic Flows | 2026 Baseline + Mona PM Peak Hour Traffic Flows | 2026 Cumulative Impact AM Peak Hour Traffic Flows | 2026 Cumulative Impact PM Peak Hour Traffic Flows |
|--|---|---|---|---|---|---|---|---|--|--|--|--|
| A55 junction 26 / Ffordd William Morgan roundabout | 960 | 845 | 991 | 872 | 51 | 56 | 1,042 | 928 | 1,143 | 1,029 | 1,195 | 1,081 |
| A55 junction 24 / A547 Rhuddlan Road roundabout | 2,215 | 2,351 | 2,287 | 2,427 | 3 | 3 | 2,290 | 2,430 | 2,391 | 2,531 | 2,391 | 2,531 |
| A55 junction 23 / A547 Abergele Road roundabout | 1,103 | 1,147 | 1,139 | 1,184 | 0 | 0 | 1,139 | 1,184 | 1,240 | 1,285 | 1,240 | 1,285 |
| A547 Abergele Road / Rhyd-Y-Foel priority junction | 608 | 722 | 621 | 738 | 0 | 0 | 621 | 738 | 722 | 839 | 722 | 839 |
| A548 / B5381 Roman Road crossroad junction | 392 | 496 | 401 | 508 | 0 | 0 | 401 | 508 | 502 | 609 | 502 | 609 |
| B5381 Glascoed Road / B5381 Roman Road priority junction | 181 | 171 | 185 | 175 | 4 | 3 | 189 | 178 | 290 | 279 | 290 | 279 |
| B5381 Glascoed Road / Ffordd William Morgan | 666 | 661 | 682 | 676 | 38 | 32 | 720 | 708 | 821 | 809 | 873 | 861 |

| | | | | | | | | | | | | |
|--|-------|-------|-------|-------|---|---|-------|-------|-------|-------|-------|-------|
| A55 junction 24 / A547 Rhuddlan Road - Without A547 / Rhuddlan Road east | 1,428 | 1,566 | 1,474 | 1,617 | 3 | 3 | 1,477 | 1,620 | 1,550 | 1,693 | 1,550 | 1,693 |
| A55 junction 24 / A547 Rhuddlan Road - A547 / Rhuddlan Road west only | 732 | 671 | 756 | 693 | 3 | 3 | 759 | 696 | 831 | 769 | 831 | 769 |