Niamh Elise Byrne

Transportation Engineer · Corridor Design

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Cork, Ireland

Design scope

Six junctions — Modelled and checked for a bus priority corridor options study.

2.4 km corridor — Coordinated drawings through detailed design and independent review.

Summary

Transportation engineer delivering junction and bus corridor designs. Turns counts, field observations and model outputs into options for client review. Coordinates geometry and accessibility details with drainage, signals and public realm teams.

Experience

Transportation Engineer

Millrace Mobility Design | 2021-11 – Present

- Compared junction layouts using measured turning counts and bus dwell times. Documented where model assumptions changed the preferred option.
- Coordinated accessibility, drainage and swept-path checks for a 2.4 km corridor. Closed 37 drawing review comments before the tender issue.
- Prepared a staging plan with the client team. Checked temporary bus access against route operator feedback and recorded residual constraints.

Graduate Transport Engineer

Grey Alder Infrastructure | 2019-06 – 2021-10

- Cleaned traffic count data and checked modelled queues against independent site observations.
- Prepared early junction plans showing crossing locations, turning paths and design constraints for the lead engineer.

Education

MEng Civil and Transportation Engineering

Westhaven Institute of Technology | 2019

Skills

Corridor design · Junction modelling · Swept-path analysis · Staging review

Languages

English · Irish