



Roadway Design Unit



[Tatia L. White, PE, PLS, CPM](#)

Plan Review and Design Support Group: [Jordan Woodard, PE \(Divisions 1-6 & 8\)](#)
[David Clodgo, PE, PMP \(Divisions 7 & 9-14\)](#)

Reviews roadway design submittals from private engineering firms for Central and Division managed projects. Reviews municipal projects, greenways, non-utility encroachments and other special projects as requested by Division. Provides technical expertise for roadway design, roadway design policies and plan preparation.

Develops conceptual designs and cost estimates for feasibility studies. Develops roadway design scope and manday estimates for Central and Division managed projects. Prepares designs for preliminary, right of way and final plans that are managed by the Divisions, Central, and Structures Management Units. Prepares right of way and construction revisions on Legacy projects and provides assistance to the Surplus Right of Way Disposal and Control of Access Review Committee.

[Roadway Design Manual Rewrite Memo](#)
[Developing Design Criteria](#)
[Design Criteria Form](#)
[1B Sheet Update \(R/W & C/A\)](#)
[Construction Revision Memo](#)

[UPDATED Roadway Design Manual](#)
[Building Better Title & Typical Section Sheets](#)
[Interstate Controlling Criteria Tool Memo](#)
[Conceptual Construction Cost Estimation Guidelines](#)
[Public Involvement Mapping Guide & Checklist Memo](#)

Specialty Functions and Support Services Group: [Roger Kluckman, PE](#)

➤ **Lighting and Electrical Team:** [Greg Hall](#)

Develops lighting, electrical and conduit designs for the Department and assists municipalities with designs inside the NCDOT right of way. Reviews all lighting plan submittals, from private engineering firms and contractors, and physically tests all completed lighting installations to assure compliance with the contract.

[Roadway Lighting Policy Memo](#)
[LED Luminaires Specifications](#)

[Lighting Policy](#)

➤ **Support Services Section:** [Jason Moore, PE](#)

Provides technical, design, and business support for the Roadway Design Unit. Develops, tests, and maintains all Roadway related CADD standards and provides CADD support and training to all central staff, as well as Division and private engineering personnel. Maintains the Unit's computer and website resources and is responsible for several unique business processes. Involved in several technical departmental improvement and restructuring initiatives.

[ORD Quickstart Training \(2019\)](#)
[ORD Civil Geometry Training \(2019\)](#)
[ORD Templates Training \(2017\)](#)

[Roadway Design ORD Training Modules \(2021\)](#)
[Technical Resources](#)

➤ **ORD Implementation: [Jeff Garland, PE, PMP](#)**

Responsible for leading the departmental migration and implementation of OpenRoads Designer. Creates the departmental ORD vision and associated goals and develops the migration plan and milestones delivery schedule. Conducts coordination meetings with NCDOT working groups and software vendors to overcome software and workspace development issues. Responsible for communicating department migration status and is the primary point of contact for all questions and issues related to OpenRoads Designer migration and implementation.

[ACEC NCDOT ORD Presentation](#)
[ORD Implementation Training Links](#)

[NCDOT Research & Innovation Summit Presentation](#)
[NCDOT Connect Workspace Update](#)