

# NC Milepost End Point Marker for Routes with Hatching at 0.50 Mile Intervals, 3rd Quarter 2024 - NC Department of Transportation

File Geodatabase Feature Class



## Tags

Roads, North Carolina, NCDOT, State Highway Network, Measure, Route End Point, Hatch Interval, Milepost, Transportation, Highway, Routes, Location, Streets, Interstate, US Route, NC Route Secondary Route

## Summary

This layer provides points representing the end point milepost for routes with hatch lines generated that represent half-mile intervals along the NCDOT Road Network. Each hatch line contains the half-mile Milepost value measured from the beginning point of a route. The Route ID attribute value is also included.

## Description

This data provides the display for end point milepost values along public roads, excluding non-system/local roads, in North Carolina. This can accompany the half-mile interval hatch lines data. The end-point milepost points and hatch intervals are created off the NC Public Road Arcs publication product. NC Public Road Arcs is a route publication product derived using an internal procedure designed to generate reporting products from the Linear Referencing System (LRS).

NCDOT adopted the road centerline based LRS Network as its official Enterprise LRS, to which multiple road inventory attributes are referenced along measured routes throughout North Carolina. These routes are classified as either System or Non-System routes. System routes are routes within the state-maintained road network, and are comprised of Interstates, US Routes, NC Routes, Secondary Routes, Ramps, and Non-System Routes. Non-System routes are routes that are typically not maintained by NCDOT, but instead by a local agency (county, city or MPO/RPO). The local agency is the source for updating these Non-System routes in NCDOT's LRS. The route classification is recorded in the RteClass field in this data set; see field values and descriptions in the metadata Fields Section.

## Credits

NC Department of Information Technology-Transportation (NCDIT-T), GIS Unit, Spatial Data Management Group and Geospatial Services Group - Product creation; NCDIT-T, GIS Unit, Spatial Data Operations Group - System geometry, mileage.

## Use limitations

The North Carolina Department of Transportation shall not be held liable for any errors in this data. This includes errors of omission, commission, errors concerning the content of the data, and relative and positional accuracy of the data. This data cannot be construed to be a legal document. Primary sources from which this data was compiled must be consulted for verification of information contained in this data.

This data is produced as a derivative of a reporting product out of the NCDOT Linear Referencing System, and is intended for visualization and reference use only. This is representative data only and is not designed for participation in data analysis or modelling. Use of this data is not analogous to integration with or alignment to NCDOT's Linear Referencing System.

## Extent

**West** -84.412892 **East** -75.422328

**North** 36.579087 **South** 33.783836

## Scale Range

**Maximum (zoomed in)** 1:5,000

**Minimum (zoomed out)** 1:50,000

## ArcGIS Metadata ▶

## Topics and Keywords ▶

THEMES OR CATEGORIES OF THE RESOURCE location, society, transportation

\* CONTENT TYPE Downloadable Data

PLACE KEYWORDS North Carolina

THESAURUS ▶

TITLE User

PUBLICATION DATE 2024-08-12 00:00:00

*Hide Thesaurus ▲*

THEME KEYWORDS Point, Roads, NCDOT, State Highway Network, Measure, Hatch Interval, Milepost, Route End Point, Route Beginning Point Transportation, Highway, Routes, Location, Streets, Interstate, US Route, NC Route Secondary Route

THESAURUS ▶

TITLE User

PUBLICATION DATE 2024-08-12 00:00:00

*Hide Thesaurus ▲*

*Hide Topics and Keywords ▲*

## Citation ▶

TITLE NC Milepost End Point Marker for Routes with Hatching at 0.50 Mile Intervals, 3rd Quarter 2024 - NC Department of Transportation

ALTERNATE TITLES Milepost\_EndPoint\_Marker\_050

CREATION DATE 2024-04-30 00:00:00

PUBLICATION DATE 2024-08-12 00:00:00

PRESENTATION FORMATS \* digital map

FGDC GEOSPATIAL PRESENTATION FORMAT vector digital data

*Hide Citation ▲*

## Citation Contacts ▶

RESPONSIBLE PARTY

ORGANIZATION'S NAME North Carolina Department of Information Technology -Transportation, GIS Unit

CONTACT'S POSITION GIS Data and Services Consultant

CONTACT'S ROLE originator

CONTACT INFORMATION ►

ADDRESS

TYPE physical

DELIVERY POINT Century Center Building B, 1020 Birch Ridge Drive

CITY Raleigh

ADMINISTRATIVE AREA NC

POSTAL CODE 27610

COUNTRY US

E-MAIL ADDRESS [gishelp@ncdot.gov](mailto:gishelp@ncdot.gov)

HOURS OF SERVICE

9:00am - 5:00pm Monday – Friday

CONTACT INSTRUCTIONS

Please send an email with any issues, questions, or comments regarding the data. If it is an immediate need, please indicate as such in the subject line in an email.

*Hide Contact information ▲*

RESPONSIBLE PARTY

ORGANIZATION'S NAME North Carolina Department of Information Technology -Transportation, GIS Unit

CONTACT'S POSITION GIS Data and Services Consultant

CONTACT'S ROLE resource provider

CONTACT INFORMATION ►

ADDRESS

TYPE physical

DELIVERY POINT Century Center Building B, 1020 Birch Ridge Drive

CITY Raleigh

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CONTACT'S POSITION GIS Data and Services Consultant

CONTACT'S ROLE point of contact

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[Hide Contact information ▲](#)

[Hide Citation Contacts ▲](#)

## Resource Details ►

DATASET LANGUAGES \* English (UNITED STATES)  
DATASET CHARACTER SET utf8 - 8 bit UCS Transfer Format

STATUS on-going  
SPATIAL REPRESENTATION TYPE \* vector

SUPPLEMENTAL INFORMATION

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\* PROCESSING ENVIRONMENT Version 6.2 (Build 9200) ; Esri ArcGIS 10.8.1.14362

CREDITS

NC Department of Information Technology-Transportation (NCDIT-T), GIS Unit, Spatial Data Management Group and Geospatial Services Group - Product creation; NCDIT-T, GIS Unit, Spatial Data Operations Group – System geometry, mileage.

[Hide Resource Details ▲](#)

## Extents ►

EXTENT

GEOGRAPHIC EXTENT

BOUNDING RECTANGLE

EXTENT TYPE Extent used for searching  
\* WEST LONGITUDE -84.412892  
\* EAST LONGITUDE -75.422328  
\* NORTH LATITUDE 36.579087  
\* SOUTH LATITUDE 33.783836  
\* EXTENT CONTAINS THE RESOURCE Yes

EXTENT IN THE ITEM'S COORDINATE SYSTEM

\* WEST LONGITUDE 408787.669264  
\* EAST LONGITUDE 3051130.660288  
\* SOUTH LATITUDE 54305.507536  
\* NORTH LATITUDE 1029726.732688  
\* EXTENT CONTAINS THE RESOURCE Yes

[Hide Extents ▲](#)

## Resource Points of Contact ►

POINT OF CONTACT

ORGANIZATION'S NAME North Carolina Department of Information Technology -Transportation, GIS Unit  
CONTACT'S POSITION GIS Data and Services Consultant  
CONTACT'S ROLE point of contact

CONTACT INFORMATION ►

ADDRESS

TYPE physical  
DELIVERY POINT Century Center Building B, 1020 Birch Ridge Drive  
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*Hide Contact information ▲*

*Hide Resource Points of Contact ▲*

## Resource Maintenance ►

RESOURCE MAINTENANCE

UPDATE FREQUENCY quarterly

SCOPE OF THE UPDATES dataset

OTHER MAINTENANCE REQUIREMENTS

NC Department of Information Technology-Transportation (NCDIT-T), GIS Unit, Spatial Data Management Group and Geospatial Services Group - Product creation; NCDIT-T, GIS Unit, Spatial Data Operations Group – System geometry, mileage.

MAINTENANCE CONTACT

ORGANIZATION'S NAME North Carolina Department of Information Technology -Transportation, GIS Unit  
CONTACT'S POSITION GIS Data and Services Consultant  
CONTACT'S ROLE point of contact

CONTACT INFORMATION ►

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[Hide Contact information ▲](#)

[Hide Resource Maintenance ▲](#)

## Resource Constraints ►

### CONSTRAINTS

#### LIMITATIONS OF USE

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### LEGAL CONSTRAINTS

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### SECURITY CONSTRAINTS

CLASSIFICATION unclassified

CLASSIFICATION SYSTEM None

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[Hide Resource Constraints ▲](#)

## Spatial Reference ►

### ARCgis COORDINATE SYSTEM

\* TYPE Projected

\* GEOGRAPHIC COORDINATE REFERENCE GCS\_North\_American\_1983

\* PROJECTION NAD\_1983\_StatePlane\_North\_Carolina\_FIPS\_3200\_Feet

\* COORDINATE REFERENCE DETAILS

PROJECTED COORDINATE SYSTEM

WELL-KNOWN IDENTIFIER 102719  
X ORIGIN -121841900  
Y ORIGIN -93659000  
XY SCALE 1893.9393939393938  
Z ORIGIN -100000  
Z SCALE 9.9999999999999982  
M ORIGIN -100000  
M SCALE 10000000  
XY TOLERANCE 0.00528  
Z TOLERANCE 0.20000000000000004  
M TOLERANCE 9.9999999999999995e-07  
HIGH PRECISION true  
LATEST WELL-KNOWN IDENTIFIER 2264  
VCSWKID 105703  
LATESTVCSWKID 6360  
WELL-KNOWN TEXT

PROJCS["NAD\_1983\_StatePlane\_North\_Carolina\_FIPS\_3200\_Feet",GEOGCS["GCS\_North\_American\_1983",DATUM["D\_North\_American\_1983",SPHEROID["GRS\_1980",6378137.0,298.257222101]],PRIMEM["Greenwich",0.0],UNIT["Degree",0.0174532925199433]],PROJECTION["Lambert\_Conformal\_Conic"],PARAMETER["False\_Easting",2000000.002616666],PARAMETER["False\_Northing",0.0],PARAMETER["Central\_Meridian",-79.0],PARAMETER["Standard\_Parallel\_1",34.33333333333334],PARAMETER["Standard\_Parallel\_2",36.16666666666666],PARAMETER["Latitude\_Of\_Origin",33.75],UNIT["Foot\_US",0.3048006096012192]],VERTCS["NAVD\_1988\_Foot\_US",VDATUM["North\_American\_Vertical\_Datum\_1988"],PARAMETER["Vertical\_Shift",0.0],PARAMETER["Direction",1.0],UNIT["Foot\_US",0.3048006096012192]]

REFERENCE SYSTEM IDENTIFIER

- \* VALUE 2264
- \* CODESPACE EPSG
- \* VERSION 6.12(9.0.0)

[Hide Spatial Reference ▲](#)

## Spatial Data Properties ►

VECTOR ►

- \* LEVEL OF TOPOLOGY FOR THIS DATASET geometry only

GEOMETRIC OBJECTS

FEATURE CLASS NAME Milepost\_EndPoint\_Marker\_050  
\* OBJECT TYPE point  
\* OBJECT COUNT 3347

[Hide Vector ▲](#)

ARCGIS FEATURE CLASS PROPERTIES ►

FEATURE CLASS NAME Milepost\_EndPoint\_Marker\_050  
\* FEATURE TYPE Simple  
\* GEOMETRY TYPE Point  
\* HAS TOPOLOGY FALSE  
\* FEATURE COUNT 3347  
\* SPATIAL INDEX TRUE  
\* LINEAR REFERENCING FALSE

[Hide ArcGIS Feature Class Properties ▲](#)

[Hide Spatial Data Properties ▲](#)

## Data Quality ▶

SCOPE OF QUALITY INFORMATION ▶  
RESOURCE LEVEL **dataset**

[Hide Scope of quality information ▲](#)

DATA QUALITY REPORT - COMPLETENESS COMMISSION ▶  
MEASURE DESCRIPTION

After processing, the dataset is checked for drawing display and number of records and file sizes compared with source materials.

CONFORMANCE TEST RESULTS  
TEST PASSED **Yes**  
RESULT EXPLANATION  
**Pass**

PRODUCT SPECIFICATION ▶  
TITLE **NCDOT Geospatial Data Specifications**  
CREATION DATE **2024-04-30 00:00:00**  
PUBLICATION DATE **2024-08-12 00:00:00**

[Hide Product specification ▲](#)

[Hide Data quality report - Completeness commission ▲](#)

DATA QUALITY REPORT - CONCEPTUAL CONSISTENCY ▶  
MEASURE DESCRIPTION

This dataset is converted to file geodatabase (FGDB) format using tools in ArcGIS. The geometry is checked, and if needed repaired.

CONFORMANCE TEST RESULTS  
TEST PASSED **Yes**  
RESULT EXPLANATION  
**Pass.**

PRODUCT SPECIFICATION ▶  
TITLE **NCDOT Geospatial Data Specifications**  
CREATION DATE **2024-04-30 00:00:00**  
PUBLICATION DATE **2024-08-12 00:00:00**

[Hide Product specification ▲](#)

[Hide Data quality report - Conceptual consistency ▲](#)



#### DATA QUALITY REPORT - QUANTITATIVE ATTRIBUTE ACCURACY ▶

##### MEASURE DESCRIPTION

The source data was checked using standard review procedures. Attributes were checked by using visual inspection as well as automated verification routines. Geometry checks were conducted using Esri's Data Reviewer tool.

##### CONFORMANCE TEST RESULTS

TEST PASSED **Yes**

##### RESULT EXPLANATION

Pass.

##### PRODUCT SPECIFICATION ▶

TITLE **NCDOT Geospatial Data Specifications**

CREATION DATE **2024-04-30 00:00:00**

PUBLICATION DATE **2024-08-12 00:00:00**

*Hide Product specification ▲*

*Hide Data quality report - Quantitative attribute accuracy ▲*

*Hide Data Quality ▲*

## Lineage ▶

##### LINEAGE STATEMENT

This data is created using an automated process designed to generate feature classes with points representing the end point milepost on the NCDOT Road Network of routes. The publication product NC Public Road Arcs is used as the input for the application to generate the end point of a route. NC Public Road Arcs is a route publication product derived using an internal procedure designed to generate reporting products from the Linear Referencing System maintained by the Spatial Data Operations Group within the North Carolina Department of Information Technology- Transportation, GIS Unit.

##### PROCESS STEP ▶

WHEN THE PROCESS OCCURRED **2024-01-20 00:00:00**

##### DESCRIPTION

Data Conversion Group maintains the NCDOT LRS in a geodatabase.

##### PROCESS CONTACT

ORGANIZATION'S NAME **North Carolina Department of Information Technology -Transportation, GIS Unit**

CONTACT'S POSITION **GIS Data and Services Consultant**

CONTACT'S ROLE **originator**

##### CONTACT INFORMATION ▶

##### ADDRESS

TYPE **physical**

DELIVERY POINT **Century Center Building B, 1020 Birch Ridge Drive**

CITY **Raleigh**

ADMINISTRATIVE AREA NC  
POSTAL CODE 27610  
COUNTRY US  
E-MAIL ADDRESS [gishelp@ncdot.gov](mailto:gishelp@ncdot.gov)

HOURS OF SERVICE  
9:00am - 5:00pm Monday – Friday

CONTACT INSTRUCTIONS  
Please send an email with any issues, questions, or comments regarding the data. If it is an immediate need, please indicate as such in the subject line in an email.

[Hide Contact information ▲](#)

[Hide Process step ▲](#)

PROCESS STEP ▶

WHEN THE PROCESS OCCURRED 2024-01-29 00:00:00

DESCRIPTION

Run internal program to create NC Public Road Arcs product.

PROCESS CONTACT

ORGANIZATION'S NAME North Carolina Department of Information Technology -Transportation, GIS Unit  
CONTACT'S POSITION GIS Data and Services Consultant  
CONTACT'S ROLE resource provider

CONTACT INFORMATION ▶

ADDRESS

TYPE physical  
DELIVERY POINT Century Center Building B, 1020 Birch Ridge Drive  
CITY Raleigh  
ADMINISTRATIVE AREA NC  
POSTAL CODE 27610  
COUNTRY US  
E-MAIL ADDRESS [gishelp@ncdot.gov](mailto:gishelp@ncdot.gov)

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9:00am - 5:00pm Monday – Friday

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[Hide Contact information ▲](#)

[Hide Process step ▲](#)

PROCESS STEP ▶

WHEN THE PROCESS OCCURRED 2024-02-08 00:00:00

DESCRIPTION

Run internal, automated process to generate feature classes of end point mileposts along routes.

PROCESS CONTACT

ORGANIZATION'S NAME North Carolina Department of Information Technology -Transportation, GIS Unit  
CONTACT'S POSITION GIS Data and Services Consultant  
CONTACT'S ROLE point of contact

CONTACT INFORMATION ▶

ADDRESS

TYPE physical  
DELIVERY POINT Century Center Building B, 1020 Birch Ridge Drive  
CITY Raleigh  
ADMINISTRATIVE AREA NC  
POSTAL CODE 27610  
COUNTRY US  
E-MAIL ADDRESS [gishelp@ncdot.gov](mailto:gishelp@ncdot.gov)

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9:00am - 5:00pm Monday – Friday

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[Hide Contact information ▲](#)

[Hide Process step ▲](#)

[Hide Lineage ▲](#)

## Distribution ▶

DISTRIBUTOR ▶

CONTACT INFORMATION

ORGANIZATION'S NAME North Carolina Department of Information Technology -Transportation, GIS Unit  
CONTACT'S POSITION GIS Data and Services Consultant  
CONTACT'S ROLE distributor

CONTACT INFORMATION ▶

ADDRESS

TYPE physical  
DELIVERY POINT Century Center Building B, 1020 Birch Ridge Drive  
CITY Raleigh  
ADMINISTRATIVE AREA NC  
POSTAL CODE 27610  
COUNTRY US  
E-MAIL ADDRESS [gishelp@ncdot.gov](mailto:gishelp@ncdot.gov)

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[Hide Contact information ▲](#)

[Hide Distributor ▲](#)

DISTRIBUTION FORMAT

VERSION 10.8.1

\* NAME File Geodatabase Feature Class

[Hide Distribution ▲](#)

## Fields ►

DETAILS FOR OBJECT [Milepost\\_EndPoint\\_Marker\\_050](#) ►

\* TYPE Feature Class

\* ROW COUNT 3347

DEFINITION

NC Milepost End Point Marker for Routes with Hatching at 0.50 Mile Intervals

DEFINITION SOURCE

North Carolina Department of Transportation

FIELD [OBJECTID](#) ►

\* ALIAS OBJECTID

\* DATA TYPE OID

\* WIDTH 4

\* PRECISION 0

\* SCALE 0

\* FIELD DESCRIPTION

Internal feature number.

\* DESCRIPTION SOURCE

Esri

\* DESCRIPTION OF VALUES

Sequential unique whole numbers that are automatically generated.

[Hide Field OBJECTID ▲](#)

FIELD [RteClass](#) ►

\* ALIAS RteClass

\* DATA TYPE String

\* WIDTH 3

\* PRECISION 0

\* SCALE 0

FIELD DESCRIPTION

The NCDOT route class code for dominant route.

DESCRIPTION SOURCE

NCDOT

LIST OF VALUES

VALUE 1

DESCRIPTION Interstate (I)

ENUMERATED DOMAIN VALUE DEFINITION SOURCE NCDOT

VALUE 2

DESCRIPTION US Route (US)

ENUMERATED DOMAIN VALUE DEFINITION SOURCE NCDOT

VALUE 3  
DESCRIPTION NC Route (NC)  
ENUMERATED DOMAIN VALUE DEFINITION SOURCE NCDOT

VALUE 4  
DESCRIPTION Secondary Route (SR)  
ENUMERATED DOMAIN VALUE DEFINITION SOURCE NCDOT

VALUE 5  
DESCRIPTION Non-System (NS)  
ENUMERATED DOMAIN VALUE DEFINITION SOURCE NCDOT

VALUE 6  
DESCRIPTION Other State Agency Route (SA)  
ENUMERATED DOMAIN VALUE DEFINITION SOURCE NCDOT

VALUE 7  
DESCRIPTION Federal Route (FED)  
ENUMERATED DOMAIN VALUE DEFINITION SOURCE NCDOT

VALUE 80  
DESCRIPTION Ramp (RMP)  
ENUMERATED DOMAIN VALUE DEFINITION SOURCE NCDOT

VALUE 81  
DESCRIPTION Rest Areas (RST)  
ENUMERATED DOMAIN VALUE DEFINITION SOURCE NCDOT

VALUE 82  
DESCRIPTION Non-System Ramp  
ENUMERATED DOMAIN VALUE DEFINITION SOURCE NCDOT

VALUE 9  
DESCRIPTION Projected (PRJ)  
ENUMERATED DOMAIN VALUE DEFINITION SOURCE NCDOT

*Hide Field RteClass ▲*

FIELD RteId ►

- \* ALIAS RteId
- \* DATA TYPE String
- \* WIDTH 11
- \* PRECISION 0
- \* SCALE 0

FIELD DESCRIPTION

The NCDOT eleven-digit number for each route in the network. More information explaining this route naming convention used by NCDOT is available here:  
<https://xfer.services.ncdot.gov/gisdot/DistDOTData/Guide%20to%20the%20NCDOT%20Eleven-Digit%20Route%20Number%20-%20Rome%20Implementation.pdf>

DESCRIPTION SOURCE  
NCDOT

DESCRIPTION OF VALUES  
Values vary.

*Hide Field RteId ▲*

FIELD Milepost ►

- \* ALIAS Milepost
- \* DATA TYPE String
- \* WIDTH 10
- \* PRECISION 0
- \* SCALE 0

FIELD DESCRIPTION

Milepost of the end point of the route.

DESCRIPTION SOURCE

NCDOT

DESCRIPTION OF VALUES

Zero.

*Hide Field Milepost ▲*

FIELD RoadAngle ►

- \* ALIAS RoadAngle
- \* DATA TYPE SmallInteger
- \* WIDTH 2
- \* PRECISION 0
- \* SCALE 0

FIELD DESCRIPTION

Angle of the route at the end point milepost.

DESCRIPTION SOURCE

NCDOT

RANGE OF VALUES

MINIMUM VALUE -180

MAXIMUM VALUE 180

*Hide Field RoadAngle ▲*

FIELD Shape ►

- \* ALIAS Shape
- \* DATA TYPE Geometry
- \* WIDTH 0
- \* PRECISION 0
- \* SCALE 0
- \* FIELD DESCRIPTION

Feature geometry.

\* DESCRIPTION SOURCE

Esri

\* DESCRIPTION OF VALUES

Coordinates defining the features.

*Hide Field Shape ▲*

[Hide Details for object Milepost\\_EndPoint\\_Marker\\_050 ▲](#)

[Hide Fields ▲](#)

## Metadata Details ►

\* METADATA LANGUAGE English (UNITED STATES)  
METADATA CHARACTER SET utf8 - 8 bit UCS Transfer Format

SCOPE OF THE DATA DESCRIBED BY THE METADATA \* dataset  
SCOPE NAME \* dataset

\* LAST UPDATE 2024-08-05

### ARCGIS METADATA PROPERTIES

METADATA FORMAT ArcGIS 1.0  
METADATA STYLE ISO 19139 Metadata Implementation Specification  
STANDARD OR PROFILE USED TO EDIT METADATA ISO19139

CREATED IN ARCGIS FOR THE ITEM 2024-08-05 09:50:40  
LAST MODIFIED IN ARCGIS FOR THE ITEM 2024-08-05 13:10:05

### AUTOMATIC UPDATES

HAVE BEEN PERFORMED Yes  
LAST UPDATE 2024-08-05 13:10:05

[Hide Metadata Details ▲](#)

## Metadata Contacts ►

### METADATA CONTACT

ORGANIZATION'S NAME North Carolina Department of Information Technology -Transportation, GIS Unit  
CONTACT'S POSITION GIS Data and Services Consultant  
CONTACT'S ROLE point of contact

### CONTACT INFORMATION ►

#### ADDRESS

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[Hide Contact information ▲](#)

[Hide Metadata Contacts ▲](#)

## Metadata Maintenance ►

### MAINTENANCE

UPDATE FREQUENCY quarterly

SCOPE OF THE UPDATES dataset

### MAINTENANCE CONTACT

ORGANIZATION'S NAME North Carolina Department of Information Technology -Transportation, GIS Unit

CONTACT'S POSITION GIS Data and Services Consultant

CONTACT'S ROLE point of contact

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#### SECURITY CONSTRAINTS

CLASSIFICATION unclassified

CLASSIFICATION SYSTEM None

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