

NC 2019-2023 Highway Maintenance Improvement Program Roads - NC Department of Transportation

Geodatabase Feature Class



Tags

Line, NCDOT, Pavement, Pavement Management, Transportation, Highway, Roads, Routes, State Highway Network, Highway Maintenance, Highway Improvements, Highway Rehabilitation

Summary

Lines representing roads in the 2019-2023 Highway Maintenance Improvement Program (HMIP) as approved by the North Carolina Board of Transportation. The three types of road improvement are resurfacing, preservation, and rehabilitation. Attributes also include the treatment specifics, length of the treatment, the physical description of the begin and end limit of where the treatment is to be applied, the route name to be treated and county location of the improvement project.

Description

The NCDOT Pavement Management Unit (PMU) under Division of Highways, Operations Program Management maintains the authoritative pavement data in the NCDOT Pavement Management System. Among various functions, the system manages pavement condition data and maintains a history of road construction and maintenance treatments.

[G.S. 143B-350\(f\)\(4a\)](#) requires that the NCDOT publish a schedule of State highway maintenance projects and their anticipated costs. This schedule is designated the Highway Maintenance Improvement Program (HMIP) and is established in [G.S. 136-44.3A](#). It requires the NC DOT to submit a multi-year maintenance plan covering the road preservation, resurfacing, and rehabilitation plans of the NCDOT Divisions. Each Division will have a schedule for each county for each year of the plan that includes the location, selected treatment, and estimated cost. The plan is to be based on the previous fiscal year's Contract Resurfacing and Pavement Preservation allocations. The published schedule shall include the anticipated funding sources for the improvement projects included in the HMIP, a list of any changes made from the previous year's HMIP, and the reasons for the changes. G.S. 143B-350(f) requires the plan be posted to the Department's website by April 1st of each year. Field Divisions create their HMIP in the NCDOT's Pavement Management System. This data is then exported for Board of Transportation approval. Once approved, the HMIP plan becomes official. The 2019-2023 HMIP was approved by the Board of Transportation at their March 2018 meeting.

NCDOT's Pavement Management Unit generates GIS data output from the Pavement Management System in a File Geodatabase format and distributes to the GIS Unit at the North Carolina Department of Information Technology-Transportation. This dataset is designed to give a linear representation of the HMIP attribute information collected in the PMU's system database. These attributes were dynamically matched to the NCDIT-T GIS Unit's Linear Reference System Network of routes to produce this layer.

Credits

The North Carolina Department of Transportation, Division of Highways, Pavement Management Unit.

Support and maintenance of the enterprise spatial database where this data resides is handled by the North Carolina Department of Information Technology-Transportation, GIS Unit.

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.

Extent

West -84.321511 **East** -75.461601
North 36.587286 **South** 33.865960

Scale Range

Maximum (zoomed in) 1:5,000
Minimum (zoomed out) 1:500,000

ArcGIS Metadata ▶

Topics and Keywords ▶

THEMES OR CATEGORIES OF THE RESOURCE location, planningCadastre, transportation

CONTENT TYPE Geographic Services

EXPORT TO FGDC CSDGM XML FORMAT AS RESOURCE DESCRIPTION No

PLACE KEYWORDS North Carolina

THESAURUS ▶

TITLE User

CREATION DATE 2018-03-10 00:00:00

PUBLICATION DATE 2018-04-01 00:00:00

Hide Thesaurus ▲

THEME KEYWORDS Line, NCDOT, Pavement, Pavement Management, Transportation, Highway, Roads, Routes, State Highway Network, Highway Maintenance, Highway Improvements, Highway Rehabilitation

THESAURUS ▶

TITLE User

CREATION DATE 2018-03-10 00:00:00

PUBLICATION DATE 2018-04-01 00:00:00

Hide Thesaurus ▲

Hide Topics and Keywords ▲

Citation ▶

TITLE NC 2019-2023 Highway Maintenance Improvement Program Roads - NC Department of Transportation

ALTERNATE TITLES 2019-2023 HMIP

CREATION DATE 2018-03-10 00:00:00

PUBLICATION DATE 2018-04-01 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 Transportation, Pavement Management Unit
CONTACT'S POSITION Pavement Management Engineer
CONTACT'S ROLE originator

CONTACT INFORMATION ▶

PHONE

VOICE 919-835-8212

ADDRESS

TYPE physical
DELIVERY POINT 4809 Beryl Road
CITY Raleigh
ADMINISTRATIVE AREA NC
POSTAL CODE 27606
COUNTRY US
E-MAIL ADDRESS crcoombes@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 call the contact number or indicate as such in the subject line in an email.

[Hide Contact information ▲](#)

RESPONSIBLE PARTY

ORGANIZATION'S NAME North Carolina Department of Transportation, Pavement Management Unit
CONTACT'S POSITION Pavement Management Engineer
CONTACT'S ROLE resource provider

CONTACT INFORMATION ▶

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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 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

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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 completed

SPATIAL REPRESENTATION TYPE * vector

PROCESSING ENVIRONMENT Esri ArcGIS 12.9.4.32739

CREDITS

The North Carolina Department of Transportation, Division of Highways, Pavement Management Unit.

Support and maintenance of the enterprise spatial database where this data resides is handled by the North Carolina Department of Information Technology-Transportation, GIS Unit.

[Hide Resource Details ▲](#)

Extents ►

EXTENT

GEOGRAPHIC EXTENT

BOUNDING RECTANGLE

EXTENT TYPE Extent used for searching

WEST LONGITUDE -84.321511

EAST LONGITUDE -75.461601

NORTH LATITUDE 36.587286

SOUTH LATITUDE 33.865960

EXTENT CONTAINS THE RESOURCE Yes

EXTENT IN THE ITEM'S COORDINATE SYSTEM

* WEST LONGITUDE 412934.002638

* EAST LONGITUDE 3051287.502824

* SOUTH LATITUDE 46863.375956

* NORTH LATITUDE 1042834.619902

* 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 ►

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[Hide Contact information ▲](#)

[Hide Resource Points of Contact ▲](#)

Resource Maintenance ►

RESOURCE MAINTENANCE

UPDATE FREQUENCY as needed

SCOPE OF THE UPDATES dataset

OTHER MAINTENANCE REQUIREMENTS

The North Carolina Department of Transportation, Division of Highways, Pavement Management Unit.

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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 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

LIMITATIONS OF USE

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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 3048.0060960121928

Z ORIGIN -100000

Z SCALE 10000

M ORIGIN -100000

M SCALE 10000

XY TOLERANCE 0.0032808333333333331

Z TOLERANCE 0.001
M TOLERANCE 0.001
HIGH PRECISION true
LATEST WELL-KNOWN IDENTIFIER 2264
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",2000000.0026166666],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],AUTHORITY["EPSG",2264]]

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 HMIP_20192023
- * OBJECT TYPE composite
 - * OBJECT COUNT 21733

[Hide Vector ▲](#)

ARCGIS FEATURE CLASS PROPERTIES ►

- FEATURE CLASS NAME HMIP_20192023
- * FEATURE TYPE Simple
 - * GEOMETRY TYPE Polyline
 - * HAS TOPOLOGY FALSE
 - * FEATURE COUNT 21733
 - * 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

Data quality assessments are performed by the NC Department of Transportation's Pavement Management Unit on the source data at their discretion. No additional quality assessments are made on the GIS product.

CONFORMANCE TEST RESULTS

TEST PASSED **Yes**
RESULT EXPLANATION
Pass.

PRODUCT SPECIFICATION ▶

TITLE **NCDOT Geospatial Data Specifications**
CREATION DATE **2018-03-10 00:00:00**
PUBLICATION DATE **2018-04-01 00:00:00**

Hide Product specification ▲

Hide Data quality report - Completeness commission ▲

Hide Data Quality ▲

Lineage ▶

LINEAGE STATEMENT

This GIS data is generated by NCDOT's Pavement Management Unit (PMU) under Division of Highways, Operations Program Management. PMU maintains the authoritative pavement data in the NCDOT Pavement Management System. PMU generates GIS data output from this system in a File Geodatabase format and distributes to the GIS Unit at the North Carolina Department of Information Technology-Transportation. This dataset is designed to give a linear representation of the Highway Maintenance Improvement Program attribute information collected in the PMU's system database. These attributes were dynamically matched to the NCDIT-T GIS Unit's Linear Reference System Network of routes to produce this layer.

PROCESS STEP ▶

WHEN THE PROCESS OCCURRED **2018-03-10 00:00:00**
DESCRIPTION

NCDOT's Pavement Management Unit generates the data output from the Pavement Management System in File Geodatabase format and distributes to GIS Unit at the North Carolina Department of Information Technology-Transportation.

PROCESS CONTACT

ORGANIZATION'S NAME **North Carolina Department of Transportation, Pavement Management Unit**
CONTACT'S POSITION **Pavement Management Engineer**
CONTACT'S ROLE **originator**

CONTACT INFORMATION ▶

PHONE
VOICE **919-835-8212**

ADDRESS

TYPE **physical**
DELIVERY POINT **4809 Beryl Road**

CITY Raleigh
ADMINISTRATIVE AREA NC
POSTAL CODE 27606
COUNTRY US
E-MAIL ADDRESS crcoombes@ncdot.gov

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

CONTACT INSTRUCTIONS

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[Hide Contact information ▲](#)

[Hide Process step ▲](#)

PROCESS STEP ▶

WHEN THE PROCESS OCCURRED 2018-03-24 00:00:00

DESCRIPTION

The North Carolina Department of Information Technology-Transportation, GIS Unit reviews the data, evaluates for feature count consistency and data integrity, and prepares for publishing (including metadata updates).

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 processor

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

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[Hide Contact information ▲](#)

[Hide Process step ▲](#)

PROCESS STEP ▶

WHEN THE PROCESS OCCURRED 2018-04-01 00:00:00

DESCRIPTION

The GIS Unit at the North Carolina Department of Information Technology-Transportation publishes the HMIP data and updates maps for service distribution.

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

HOURS OF SERVICE

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CONTACT INSTRUCTIONS

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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

HOURS OF SERVICE

9:00am - 5:00pm Monday - Friday

CONTACT INSTRUCTIONS

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[Hide Contact information ▲](#)

[Hide Distributor ▲](#)

DISTRIBUTION FORMAT

NAME Geodatabase Feature Class

VERSION ArcGIS Pro 2.9.5

[Hide Distribution ▲](#)

Fields ►

DETAILS FOR OBJECT [HMIP_20192023](#) ►

* TYPE Feature Class

* ROW COUNT 21733

DEFINITION

NC 2019-2023 Highway Maintenance Improvement Program Roads

DEFINITION SOURCE

North Carolina Department of Transportation, Pavement Management Unit

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 [COUNTY](#) ►

* ALIAS County

* DATA TYPE String

* WIDTH 25

* PRECISION 0

* SCALE 0

FIELD DESCRIPTION

The county where the planned treatment for the route exists.

DESCRIPTION SOURCE

NCDOT

DESCRIPTION OF VALUES

Values are among the 100 NC county names.

Hide Field COUNTY ▲

FIELD **PlanYear** ▶

- * ALIAS Plan Year
- * DATA TYPE String
- * WIDTH 4
- * PRECISION 0
- * SCALE 0

FIELD DESCRIPTION

The fiscal year in which the highway maintenance improvement treatment is to be executed.

DESCRIPTION SOURCE

NCDOT

DESCRIPTION OF VALUES

Values vary.

Hide Field PlanYear ▲

FIELD **LENGTH** ▶

- * ALIAS Length
- * DATA TYPE Double
- * WIDTH 8
- * PRECISION 0
- * SCALE 0

FIELD DESCRIPTION

The length in miles of the treatment.

DESCRIPTION SOURCE

NCDOT

DESCRIPTION OF VALUES

Values vary.

Hide Field LENGTH ▲

FIELD **RouteName** ▶

- * ALIAS Route Name
- * DATA TYPE String
- * WIDTH 100
- * PRECISION 0
- * SCALE 0

FIELD DESCRIPTION

The route to be treated.

DESCRIPTION SOURCE

NCDOT

DESCRIPTION OF VALUES

Values vary.

Hide Field RouteName ▲

FIELD **BeginDescription** ►

- * ALIAS Begin Description
- * DATA TYPE String
- * WIDTH 100
- * PRECISION 0
- * SCALE 0

FIELD DESCRIPTION

The physical description of the beginning limit of where the treatment is to be applied.

DESCRIPTION SOURCE

NCDOT

DESCRIPTION OF VALUES

Values vary.

Hide Field BeginDescription ▲

FIELD **EndDescription** ►

- * ALIAS End Description
- * DATA TYPE String
- * WIDTH 100
- * PRECISION 0
- * SCALE 0

FIELD DESCRIPTION

The physical description of the end limit of where the treatment is to be applied.

DESCRIPTION SOURCE

NCDOT

DESCRIPTION OF VALUES

Values vary.

Hide Field EndDescription ▲

FIELD **TREATMENT** ►

- * ALIAS Treatment
- * DATA TYPE String
- * WIDTH 100
- * PRECISION 0
- * SCALE 0

FIELD DESCRIPTION

The specific treatment to be applied to the road.

DESCRIPTION SOURCE

NCDOT

DESCRIPTION OF VALUES

Values vary.

[Hide Field TREATMENT ▲](#)

FIELD [BudgetGroup ▶](#)

- * ALIAS Budget Group
- * DATA TYPE String
- * WIDTH 20
- * PRECISION 0
- * SCALE 0

FIELD DESCRIPTION

The budget group of the type of treatment.

DESCRIPTION SOURCE

NCDOT

LIST OF VALUES

VALUE Resurfacing

DESCRIPTION Road improvement and maintenance technique in which a new layer of material is laid over the existing surface instead of replacing the entire road.

ENUMERATED DOMAIN VALUE DEFINITION SOURCE NCDOT

VALUE Preservation

DESCRIPTION Pavement preservation is the proactive maintenance of roads to prevent them from getting to a condition where major rehabilitation or reconstruction is necessary. Preventative maintenance costs are far less than the ultimate repair cost.

ENUMERATED DOMAIN VALUE DEFINITION SOURCE NCDOT

VALUE Rehabilitation

DESCRIPTION Repairing portions of an existing pavement to reset the deterioration process.

ENUMERATED DOMAIN VALUE DEFINITION SOURCE NCDOT

[Hide Field BudgetGroup ▲](#)

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 ▲](#)

FIELD [EstimatedCost ▶](#)

- * ALIAS Estimated Cost
- * DATA TYPE Double
- * WIDTH 8
- * PRECISION 0
- * SCALE 0

FIELD DESCRIPTION

The estimated cost of the treatment. The estimated cost data shown is not reflective of the actual engineer's estimate.

DESCRIPTION SOURCE

NCDOT

DESCRIPTION OF VALUES

Values vary.

[Hide Field EstimatedCost ▲](#)

FIELD Shape_Length ►

- * ALIAS SHAPE_Length
- * DATA TYPE Double
- * WIDTH 8
- * PRECISION 0
- * SCALE 0
- * FIELD DESCRIPTION

Length of feature in internal units.

* DESCRIPTION SOURCE

Esri

* DESCRIPTION OF VALUES

Positive real numbers that are automatically generated.

[Hide Field Shape_Length ▲](#)

[Hide Details for object HMIP_20192023 ▲](#)

[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 2023-06-13

ARCGIS METADATA PROPERTIES

METADATA FORMAT ArcGIS 1.0

STANDARD OR PROFILE USED TO EDIT METADATA ISO19139

CREATED IN ARCGIS FOR THE ITEM 2023-05-30 10:14:41

LAST MODIFIED IN ARCGIS FOR THE ITEM 2023-06-13 11:38:51

AUTOMATIC UPDATES

HAVE BEEN PERFORMED Yes

LAST UPDATE 2023-06-13 11:38:51

[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 ▶

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[Hide Metadata Contacts ▲](#)

Metadata Maintenance ▶

MAINTENANCE

UPDATE FREQUENCY as needed

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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[Hide Metadata Maintenance ▲](#)

Metadata Constraints ►

CONSTRAINTS

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SECURITY CONSTRAINTS

CLASSIFICATION unclassified

CLASSIFICATION SYSTEM None

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[Hide Metadata Constraints ▲](#)

Thumbnail and Enclosures ►

THUMBNAIL

THUMBNAIL TYPE JPG

[Hide Thumbnail and Enclosures ▲](#)