LRSE_StrategicHighwayNetwork

Geodatabase Feature Class

Tags Linear Referencing System, Event, Measure, Line, North Carolina, NCDOT, Transportation, Highway, Roads, Routes, Centerline, State Highway Network, Inventory, Transportation Planning, Location, STRAHNET, Strategic Highway Network

Summary

This feature class contains measured occurrences (events) of highways in North Carolina that are part of the Strategic Highway Network (STRAHNET), represented as lines aligned to NCDOT's Linear Reference System (LRS) Network of routes. Attributes containing Event ID and the NCDOT 11-digit Route ID are included. This event also contains the following attributes: Strategic Highway Network Date and Military Base. For each linear event occurrence, From Measure and To Measure fields provide beginning and end locations of the event along the NCDOT's MilePoint route network. Measures represent a location along a route based on distance from the route's origin. The measure is captured in miles. The precision is to the 6th decimal in the tabular column. Measure precision on the shape is to the 7th decimal. This is one of many events included in NCDOT's LRS, representing route characteristic attributes of the NCDOT state road system. The LRS route network is comprised of Interstate, US, NC, Secondary Roads, Ramps, and non-state maintained and projected roads required for federal reporting purposes.

Description

Measured linear events identifying North Carolina highway segments that are part of the Strategic Highway Network. The military's Strategic Highway Network (a subset of the National Highway System)
is critical to the Department of Defense's (DoD) domestic operations. These are roads deemed necessary for emergency mobilization and peacetime movement of heavy armor, fuel, ammunition, repair parts, food, and other commodities to support U.S. military operations. Even though DoD primarily deploys heavy equipment by rail, highways play a critical role.
The Surface Deployment and Distribution Command Transportation Engineering Agency (SDDCTEA) is the DoD designated agent for public highway matters, including STRAHNET and STRAHNET Connectors. The SDDCTEA identified STRAHNET and the Connector routes in coordination with the Federal Highway Administration (FHWA), the State transportation departments, the military Services and installations, and the ports. Together, STRAHNET and the Connectors define the total minimum defense public highway network needed to support a defense emergency.
For more detailed information about the Strategic Highway Network:
https://www.sddc.army.mil/sites/TEA/Functions/SpecialAssistant/Pages/HighwaysNationalDefense.aspx
This data also identifies STRAHNET connector routes. Highway routes linking important military installations and ports to STRAHNET. STRAHNET routes located in these military bases are also identified:
-Pope Air Force Base
-Seymour Johnson Air Force Base
-Fort Bragg Army Base
-Camp Lejeune Marine Base
-Cherry Point Marine Air Station
-New River Marine Air Station

-Elizabeth City Coast Guard Air Station
NCDOT adopted the road centerline based LRS Network as it's 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 route in NCDOT's LRS.
An LRS is a system for storing geographic locations along linear elements using relative locations. Location is given in terms of a known linear feature and a position, or measure, along it based on a distance from a known point of origin. The road centerline feature class is the geometry source from which NCDOT's routes are created in the LRS. The collection of routes, System and Non-System, is the NCDOT LRS Network referred to as MilePoint. For NCDOT, MilePoint provides the linear measures in miles, from the origin of each route. Events are stored on or along routes. Events are continuous linear or point features and can be anything that occurs on or describes a route. Examples in NCDOT's LRS are speed limit, lane width, functional class, surface type, ownership, or highway exit. Events describe an attribute of a route and have a location along the route (measured by the distance, in miles for NCDOT's LRS, from the start of the route). Multiple sets of road attributes (events) can be associated with any portion of the underlying routes. This allows the events to be independent of where the route of begins and ends, preventing the linework split each time there is an attribute value change.
The GIS Unit of the North Carolina Department of Information Technology-Transportation (NCDIT-T) has been tasked with developing and maintaining NCDOT's Linear Referencing System. The GIS Unit employs the use of GIS spatial layers to reference LRS data to real world locations. The integration of LRS to spatial layers provides a means to analyze data using GIS methods, facilitates the creation of cartographic products, and allows the enforcement of business rules. The unit is authorized to edit the LRS to match official documentation. This also includes the capture of attributes (event data) that are referenced to the linework. The NCDOT road centerline is a spatial representation of official documentation of what roads or sections of roads are physically maintained by the State.Changes to the spatial representation of the road centerline for NCDOT are authorized by the NC Board of Transportation or other business units within NCDOT.
Editing of the LRS at NCDOT is performed by multiple contributing business unit data owners. This designates it as an enterprise GIS data editing system. The GIS Unit at NCDIT-T modifies the LRS Network routes by creating, editing, or retiring based on official change notification from various NCDOT sources. Once the routes have been edited, business units may update their event data as found on the routes based on the same or additional documentation. Business units edit the LRS events using Esri's ArcGIS Event Editor, a map-centric web app that supports linear referenced event data editing via feature services. Some events are also maintained by the GIS Unit at NCDIT-T. More information about Event Editor is available here:
https://enterprise.arcgis.com/en/roads-highways/latest/event-editor/what-is-event-editor.htm.

Credits

The North Carolina Department of Transportation, Division of Highways.

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.
This data should be used for planning, maintenance, and decision-making support purposes only. It should be used only by those who fully understand the extents, limitations, and content of the data. This data should not be used for routing. The data should not be used in place of field survey or data collection efforts that are normally performed by licensed professionals and it should not replace any data collection efforts that are typically required as a part of detailed design and construction efforts.

Extent

There is no extent for this item.

Scale Range

- **Maximum (zoomed in)** 1:5,000
- **Minimum (zoomed out)** 1:625,000

Topics and Keywords

Themes or categories of the resource Location, Society, Transportation

Content type Downloadable Data

- **Export to FGDC CSDGM XML format as Resource Description** No

Theme keywords Linear Referencing System, Event, Measure, Line, NCDOT, Transportation, Highway, Roads, Routes, Centerline, State Highway Network, Inventory, STRAHNET, Strategic Highway Network

- **Thesaurus**
  - **Title** User
  - **Creation date** 2016-10-13 00:00:00
  - **Publication date** 2016-10-13 00:00:00

Place keywords North Carolina

Thesaurus
Title User
Creation date 2016-10-13 00:00:00
Publication date 2016-10-13 00:00:00

Citation

- **Title** LRSE_StrategicHighwayNetwork
- **Alternate titles** LRS_StrategicHighwayNetwork
- **Creation date** 2016-10-13 00:00:00
- **Publication date** 2016-10-13 00:00:00

- **Presentation formats** digital map
- **FGDC geospatial presentation format** vector digital data

Citation Contacts

Responsible party - originator

- **Organization's name** North Carolina Department of Transportation, Division of Planning and Programming

- **Contact's position** Staff Engineer
- **Contact information**
  - **Phone**
    - **Voice** 919-707-4630
  - **Address**
    - **Type** physical
    - **Delivery point** 1 South Wilmington Street, Room 105
    - **City** Raleigh
    - **Administrative area** NC
    - **Postal code** 27601
    - **Country** US
    - **e-mail address** rlotfi@ncdot.gov
  - **Hours of service**
  - **Contact instructions**

Responsible party - resource provider

Organization's name North Carolina Department of Information Technology -Transportation, GIS Unit
Contact's position GIS Data and Services Consultant

Contact information

Address

Type physical
Delivery point Century Center Building B, 1020 Birch Ridge Drive
City Raleigh
Administrative area North Carolina
Postal code 27610
Country US
e-mail address 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, indicate as such in the subject line in an email.

Responsible party - point of contact

Organization's name North Carolina Department of Information Technology -Transportation, GIS Unit
Contact's position GIS Data and Services Consultant

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Delivery point Century Center Building B, 1020 Birch Ridge Drive
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Country US

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Resource Details

- **Dataset languages** English (UNITED STATES)
- **Dataset character set** utf8 - 8 bit UCS Transfer Format
- **Status** on-going
- **Spatial representation type** vector
- **Processing environment** Version 6.2 (Build 9200) ; Esri ArcGIS 10.8.1.14362
- **Credits** The North Carolina Department of Transportation, Division of Highways.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.

Resource Points of Contact

Point 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 information**
  - **Address**

Resource Maintenance

Resource maintenance

Update frequency continual

Scope of the updates **dataset**

- **Organization's name** North Carolina Department of Information Technology -Transportation, GIS Unit
- **Contact's position** GIS Data and Services Consultant
- **Contact information**
  - **Address**
    - **Type** physical
  - **Hours of service**
    - 9:00am - 5:00pm Monday – Friday

    - 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.

Resource Constraints

Constraints

Limitations of use

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Legal constraints

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Security constraints

Classification **unclassified**

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**
  - **ProjectedCoordinateSystem**
    - **WKID** 102719

- **XOrigin** -121841900
- **YOrigin** -93659000
- **XYScale** 1893.9393939393938
- **ZOrigin** -100000
- **ZScale** 9.9999999999999982
- **MOrigin** -100000
- **MScale** 10000000
- **XYTolerance** 0.00528
- **ZTolerance** 0.20000000000000004
- **MTolerance** 9.9999999999999995e-07
- **HighPrecision** true
- **LatestWKID** 2264
- **VCSWKID** 105703
- **LatestVCSWKID** 6360
- **WKT**
  PROJCS["NAD_1983_StatePlane_North_Carolina_FIPS_3200_Feet",GEOGCS["GCS_North_American_1983",D
  79.0],PARAMETER["Standard_Parallel_1",34.33333333333334],PARAMETER["Standard_Parallel_2",36.1666

Reference system identifier

- **Value** 2264
- **Codespace** EPSG
- **Version** 6.12(9.0.0)

Spatial Data Properties

Vector

Level of topology for this dataset geometry only

Geometric objects

Feature class name LRSE_StrategicHighwayNetwork
Object type composite
Object count 0

ArcGIS Feature Class Properties

Feature class name LRSE_StrategicHighwayNetwork
Feature type Simple
Geometry type Polyline
Has topology FALSE
Feature count 0
Spatial index TRUE
Linear referencing TRUE

Data Quality

Scope of quality information

Resource level dataset

Data quality report - Completeness commission

Data quality measure reference

Measure description

Contributing editors are responsible for the quality control and assessment of data at the time of data entry. Additional resources may be utilized by the data owner/editor groups to assess quality of data on a more comprehensive scale. The primary tool in use for quality assessment in the NCDOT LRS Editing System is Esri's Data Reviewer extension. The quality of this data is subject to the oversight of the editing party.

Conformance test results

Test passed Yes

Result explanation

Pass.

Product specification

Title NCDOT Geospatial Data Specifications

Creation date 2016-10-13 00:00:00

Publication date 2016-10-13 00:00:00

Data quality report - Conceptual consistency

Data quality measure reference

Measure description

Contributing editors are responsible for the quality control and assessment of data at the time of data entry. Additional resources may be utilized by the data owner/editor groups to assess quality of data on a more comprehensive scale. The primary tool in use for quality assessment in the NCDOT LRS Editing System is Esri's Data Reviewer extension. The quality of this data is subject to the oversight of the editing party.

Conformance test results

Test passed Yes

Result explanation

Pass.

Product specification

Title NCDOT Geospatial Data Specifications

Creation date 2016-10-13 00:00:00

Publication date 2016-10-13 00:00:00

Data quality report - Quantitative attribute accuracy

Data quality measure reference

Measure description

Contributing editors are responsible for the quality control and assessment of data at the time of data entry. Additional resources may be utilized by the data owner/editor groups to assess quality of data on a more comprehensive scale. The primary tool in use for quality assessment in the NCDOT LRS Editing System is Esri's Data Reviewer extension. The quality of this data is subject to the oversight of the editing party.

Conformance test results

Test passed Yes

Result explanation
Pass.

Product specification
Title NCDOT Geospatial Data Specifications
Creation date 2016-10-13 00:00:00
Publication date 2016-10-13 00:00:00

Lineage
Lineage statement
LRS editing is done across many NCDOT business units on an enterprise system using Esri's ArcGIS Event Editor web mapping application. This dataset was originally developed by the North Carolina Department of Transportation, Division of Planning & Programming in conjunction with the GIS Unit at NCDIT-T, to provide a geographic representation of roads making up the Strategic Highway Network in North Carolina. The GIS Unit modifies the LRS Network routes by creating, editing, or retiring based on official change notification from various NCDOT sources. Once the routes have been edited, business units may update their data as found on the routes based on the same or additional documentation. Web mapping services are created from some of the events. The LRS supports systems, web applications, and geospatial data needs across NCDOT business units, as well as submittal to the Federal Highway Administration's Highway Performance Monitoring System (HPMS).

Process step
When the process occurred 2016-10-13 00:00:00
Description
Road attributes (event data) are referenced to the LRS network (routes). The event is edited by the NCDOT Division of Planning & Programming in an enterprise environment using Esri's online ArcGIS Event Editor software.

Process contact - point of contact
Organization's name North Carolina Department of Transportation, Division of Planning and Programming
Contact's position Staff Engineer

Contact information
Phone
Voice 919-707-4630
Address
Type physical
Delivery point 1 South Wilmington Street, Room 105
City Raleigh
Administrative area NC
Postal code 27601
Country US
e-mail address rlotfi@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.

Process step

When the process occurred
2016-10-13 00:00:00

Description
Routes are created, edited, and/or retired based on official change notification from various NCDOT sources. Road attribute-only information is also provided to the GIS Unit. Once the routes have been edited, business units may update their data as found on the routes based on the same or additional documentation.

Process contact - resource provider

Organization's name
North Carolina Department of Information Technology -Transportation, GIS Unit

Contact's position
GIS Data and Services Consultant

Contact information

Address

Type
physical

Delivery point
Century Center Building B, 1020 Birch Ridge Drive

City
Raleigh

Administrative area
North Carolina

Postal code
27610

Country
US

e-mail address
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, indicate as such in the subject line in an email.

Process step

When the process occurred
2016-10-13 00:00:00

Description
Development and maintenance of NCDOT’s Linear Referencing System. This includes the road centerline, route network, some events, and other related spatial data.

Process 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 information

Address

Type
physical

Delivery point
Century Center Building B, 1020 Birch Ridge Drive

City
Raleigh

Administrative area
North Carolina

Postal code
27610

Country US
e-mail address gishelp@ncdot.gov

Hours of service
9:00am - 5:00pm Monday - Friday

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Distribution

Distribution format
Name File Geodatabase Feature Class
Version 10.8.1

Fields

Details for object LRSE_StrategicHighwayNetwork
Type Feature Class
Row count 0

Definition
Strategic Highway Network

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.

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.

Field FromDate
Alias FromDate
Data type Date
Width 8
Precision 0
Scale 0

Field description
The date the event becomes active on the route.

Description source
NCDOT

Description of values
Dates vary.

Field ToDate
Alias ToDate
Data type Date
Width 8
Precision 0
Scale 0

Field description
The date the event is retired on the route.

Description source
NCDOT

Description of values
Dates vary.

Field EventID
Alias EventID
Data type String
Width 50

Precision 0
Scale 0

Field description
The unique ID for each event record.

Description source
NCDOT

Description of values
Values vary.

Field RouteID
Alias RouteID
Data type String
Width 255
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.

Field FromMeasure
Alias FromMeasure
Data type Double
Width 8
Precision 0
Scale 0

Field description
The measure on the route where the beginning of the event is located. The measure is captured in miles. The precision is to the 6th decimal in the tabular column. Measure precision on the shape is to the 7th decimal.

Description source
NCDOT

Description of values
Values vary.

Field MilitaryBase

Alias MilitaryBase
Data type SmallInteger
Width 2
Precision 0
Scale 0

Field description

The military base that the Strategic Highway Network (STRAHNET) route is located within.

Description source

NCDOT

List of values

Value Pope Air Force Base
Description Pope Air Force Base
Enumerated domain value definition source NCDOT

Value Seymour Johnson Air Force Base
Description Seymour Johnson Air Force Base
Enumerated domain value definition source NCDOT

Value Fort Bragg Army Base
Description Fort Bragg Army Base
Enumerated domain value definition source NCDOT

Value Camp Lejeune Marine Base
Description Camp Lejeune Marine Base
Enumerated domain value definition source NCDOT

Value Cherry Point Marine Air Station
Description Cherry Point Marine Air Station
Enumerated domain value definition source NCDOT

Value New River Marine Air Station
Description New River Marine Air Station
Enumerated domain value definition source NCDOT

Value Elizabeth City Coast Guard Air Station
Description Elizabeth City Coast Guard Air Station
Enumerated domain value definition source NCDOT

Field StrategicHighwayNetworkDate

Alias STRAHNETDate
Data type Date
Width 8
Precision 0

Scale 0

Field description
Date, if available, route segment added to the Strategic Highway Network.

Description source
NCDOT

Description of values
Dates vary.

Field StrategicHighwayNetworkType
Alias STRAHNETType
Data type SmallInteger
Width 2
Precision 0
Scale 0

Field description
The military's Strategic Highway Network (a subset of the National Highway System) is critical to the Department of Defense's (DoD's) domestic operations. These are roads deemed necessary for emergency mobilization and peacetime movement of heavy armor, fuel, ammunition, repair parts, food, and other commodities to support U.S. military operations.

Description source
NCDOT

List of values
Value Regular STRAHNET
Description STRAHNET route.
Enumerated domain value definition source NCDOT

Value Connector
Description STRAHNET connector route. Highway routes linking important military installations and ports to STRAHNET.
Enumerated domain value definition source NCDOT

Field ToMeasure
Alias ToMeasure
Data type Double
Width 8
Precision 0
Scale 0

Field description
The measure on the route where the end of the event is located. The measure is captured in miles. The precision is to the 6th decimal in the tabular column. Measure precision on the shape is to the 7th decimal.

Description source
NCDOT

Description of values
Values vary.

Field LocError
Alias LocError
Data type String
Width 100
Precision 0
Scale 0

Field description
The location error for the event. Values are generated as part of an internal Esri software QC process for the event time slice on the matching route time slice. Possible values listed below.
NO ERROR: The event measures match or are within the route measures.

MEASURE EXTENT OUT OF ROTE MEASURE RANGE: The event measures for the FromMeasure and To Measure fields (Measure fields for point events) are outside the route measures for that time slice.

PARTIAL MATCH FOR THE FROM-MEASURE: The event FromMeasure values are greater than the route FromMeasure values, i.e., if the route FromMeasure is 0 then the event FromMeasure is a negative value or the event has “slid” off the front of the route.

PARTIAL MATCH FOR THE TO-MEASURE: The event ToMeasure values are greater the route ToMeasure values, i.e., if the route ToMeasure is 1.0 then the event ToMeasure is 1.01 or the event has “slid” off the end of the route.

ROUTE LOCATION NOT FOUND: The event xy coordinates do not match the route xy coordinates. Typically this is caused by Esri’s ArcGIS Roads & Highways software not cleaning up a route edit correctly.

ROUTE NOT FOUND: The event time slice does not match the route timeslice, i.e., the event is active and the route is not active. Typically this is caused by Esri’s ArcGIS Roads & Highways software not cleaning up a route edit correctly.

ZERO LENGTH EXTENT: The event FromMeasure and ToMeasure values are the same, i.e., a point. Typically this is caused by Esri’s ArcGIS Roads & Highways software not cleaning up a route edit correctly.

Description source
NCDOT

Description of values
Values vary.

Field CreatedUser
Alias CreatedUser
Data type String

Width 255
Precision 0
Scale 0

Field description
User name who created the event record.

Description source
NCDOT

Description of values
Values vary.

Field CreatedDate
Alias CreatedDate
Data type Date
Width 8
Precision 0
Scale 0

Field description
Date event record was created.

Description source
NCDOT

Description of values
Dates vary.

Field LastEditedUser
Alias LastEditedUser
Data type String
Width 255
Precision 0
Scale 0

Field description
User name who last edited the event record.

Description source
NCDOT

Description of values
Values vary.

Field GlobalID

Alias GlobalID
Data type GlobalID
Width 38
Precision 0
Scale 0

Field description
A field of type UUID (Universal Unique Identifier) in which values are automatically assigned by the geodatabase when a row is created. The GlobalID field is necessary for maintaining object uniqueness across replicas. All feature classes and tables participating in one-way or two-way replication must contain the GlobalID field. This field is not editable and is automatically populated when it is added for existing data.

Description source
NCDOT

Description of values
Values vary.

Field LastEditedDate
Alias LastEditedDate
Data type Date
Width 8
Precision 0
Scale 0

Field description
Most recent date the event record was edited.

Description source
NCDOT

Description of values
Dates vary.

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.

Metadata Details

Metadata language English (UNITED STATES)

Scope of the data described by the metadata dataset
Scope name dataset

Last update 2023-10-27

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 2023-10-10 16:32:25
Last modified in ArcGIS for the item 2023-10-27 10:31:48

Automatic updates
Have been performed Yes
Last update 2023-10-27 10:31:40

Metadata Contacts

Metadata 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 information
Address
Type physical
Delivery point Century Center Building B, 1020 Birch Ridge Drive
City Raleigh
Administrative area North Carolina
Postal code 27610
Country US
e-mail address gishelp@ncdot.gov
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Metadata Maintenance

Maintenance
Update frequency as needed

Scope of the updates dataset

Metadata Constraints

Constraints

Limitations of use

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Thumbnail and Enclosures

Thumbnail

Thumbnail type

Image file