# LRS Editing System: Interchange Events, Continuous Capture – NC Department of Transportation

**SDE Geodatabase Feature Class** 



Tags

Linear Referencing System, Event, Measure, Point, North Carolina, NCDOT, Transportation, Highway, Roads, Routes, Centerline, State Highway Network, Inventory, Transportation Planning, Location, Interchange

### Summary

This feature class contains measured occurrences (events) of highway interchanges represented as points 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 an Interchange Name attribute. For each point event occurrence, the Measure field provides the location 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

Each point event represents the area containing an interchange facility. Interchanges are defined as a gradeseparated junction of two or more roads where at least one road is fully access controlled and movements between roads are accomplished through straight and loop ramps. An interchange area encompasses the broad area of roadway where traffic interactions are reasonably related to the interchange, including all ramps, ramp intersections with cross streets, merging and diverging areas, acceleration and deceleration lanes, and portions of the mainline freeway that are within the general boundaries of the interchange.

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.

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

West -84.113553 East -75.594766 North 36.578571 South 33.792796 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, society, structure, transportation

\* CONTENT TYPE Downloadable Data EXPORT TO FGDC CSDGM XML FORMAT AS RESOURCE DESCRIPTION NO

PLACE KEYWORDS North Carolina

THESAURUS TITLE User

CREATION DATE 2016-10-13 00:00:00 PUBLICATION DATE 2016-10-13 00:00:00

Hide Thesaurus 🔺

THEME KEYWORDS Linear Referencing System, Event, Measure, Point, North Carolina, NCDOT, Transportation, Highway, Roads, Routes, Centerline, State Highway Network, Inventory, Transportation Planning, Location, Interchange

 THESAURUS
 TITLE

 TITLE
 User

 CREATION DATE
 2016-10-13
 00:00:00

 PUBLICATION DATE
 2016-10-13
 00:00:00

Hide Thesaurus

Hide Topics and Keywords

## Citation **>**

TITLE LRS Editing System: Interchange Events, Continuous Capture – NC Department of Transportation ALTERNATE TITLES LRSE\_Interchange 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

Hide Citation **A** 

## Citation Contacts Example 1

RESPONSIBLE PARTY ORGANIZATION'S NAME North Carolina Department of Transportation, Transportation Safety Unit CONTACT'S POSITION Traffic Safety Engineer CONTACT'S ROLE originator

CONTACT INFORMATION PHONE VOICE 919-814-5000

Address Type physical Delivery point 750 North Greenfield Parkway City Garner Administrative area NC Postal code 27529 Country US

Hours of service Hours: 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 **A** 

**RESPONSIBLE PARTY** 

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 NC Postal code 27610 E-MAIL Address gishelp@ncdot.gov

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

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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

PROCESSING ENVIRONMENT Esri ArcGIS 12.9.3.32739

#### 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.

## Extents ►

EXTENT VERTICAL EXTENT \* MINIMUM VALUE -4.800000 \* MAXIMUM VALUE 6051.800000 EXTENT **GEOGRAPHIC EXTENT** BOUNDING RECTANGLE EXTENT TYPE Extent used for searching \* WEST LONGITUDE -84.113553 \* EAST LONGITUDE -75.594766 \* NORTH LATITUDE 36.578571 \* SOUTH LATITUDE 33.792796 \* EXTENT CONTAINS THE RESOURCE Yes EXTENT IN THE ITEM'S COORDINATE SYSTEM \* WEST LONGITUDE 496934.169904 \* EAST LONGITUDE 3000433.528000 \* SOUTH LATITUDE 53044.609744 \* NORTH LATITUDE 1029538.939984 \* 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 CITY Raleigh ADMINISTRATIVE AREA NC POSTAL CODE 27610 E-MAIL ADDRESS gishelp@ncdot.gov

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Hide Contact information

Hide Resource Points of Contact **A** 

## Resource Maintenance

RESOURCE MAINTENANCE UPDATE FREQUENCY **continual** 

SCOPE OF THE UPDATES dataset

OTHER MAINTENANCE REQUIREMENTS

The North Carolina Department of Transportation, Division of Highways maintenance is as needed and not regularly scheduled.

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

#### MAINTENANCE CONTACT

ORGANIZATION'S NAME North Carolina Department of Transportation, Transportation Safety Unit CONTACT'S POSITION Traffic Safety Engineer CONTACT'S ROLE point of contact

CONTACT INFORMATION PHONE VOICE 919-814-5000

ADDRESS

Type physical Delivery point 750 North Greenfield Parkway City Garner Administrative area NC Postal code 27529 Country US

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

#### CONTACT INSTRUCTIONS

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Hide Contact information **A** 

Hide Resource Maintenance

## **Resource Constraints** ►

#### CONSTRAINTS

#### LIMITATIONS OF USE

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## LEGAL CONSTRAINTS

#### LIMITATIONS OF USE

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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 1893.9393939393938 Z ORIGIN -100000 Z SCALE 9.999999999999982 M ORIGIN -100000 M SCALE 1000000 XY TOLERANCE 0.00528 Z TOLERANCE 0.2000000000000004 M TOLERANCE 9.999999999999999995e-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\_19 83",DATUM["D\_North\_American\_1983",SPHEROID["GRS\_1980",6378137.0,298.257222101]],PRIMEM[

"Greenwich",0.0],UNIT["Degree",0.0174532925199433]],PROJECTION["Lambert\_Conformal\_Conic"],P ARAMETER["False\_Easting",2000000.002616666],PARAMETER["False\_Northing",0.0],PARAMETER["Cen tral\_Meridian",-79.0],PARAMETER["Standard\_Parallel\_1",34.3333333333333333334],PARAMETER["Standard\_Parallel\_2",36. 16666666666666666],PARAMETER["Latitude\_Of\_Origin",33.75],UNIT["Foot\_US",0.3048006096012192]],V

16666666666666],PARAMETER["Latitude\_Of\_Origin",33.75],UNIT["Foot\_US",0.3048006096012192]],V ERTCS["NAVD\_1988\_Foot\_US",VDATUM["North\_American\_Vertical\_Datum\_1988"],PARAMETER["Vertic al\_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 LRSE\_Interchange \* OBJECT TYPE point \* OBJECT COUNT 0 Hide Vector

ARCGIS FEATURE CLASS PROPERTIES

FEATURE CLASS NAME LRSE\_Interchange

- \* FEATURE TYPE Simple
- \* GEOMETRY TYPE Point
- \* HAS TOPOLOGY FALSE
- \* FEATURE COUNT 0
- \* SPATIAL INDEX TRUE
- \* LINEAR REFERENCING TRUE

Hide ArcGIS Feature Class Properties

Hide Spatial Data Properties A

## Data Quality 🕨

SCOPE OF QUALITY INFORMATION RESOURCE LEVEL dataset

Hide Scope of quality information ▲

### DATA QUALITY REPORT - COMPLETENESS COMMISSION

#### 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

Hide Product specification

Hide Data quality report - Completeness commission

#### DATA QUALITY REPORT - CONCEPTUAL CONSISTENCY 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

Hide Product specification ▲

Hide Data quality report - Conceptual consistency

### DATA QUALITY REPORT - QUANTITATIVE ATTRIBUTE ACCURACY

### 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
```

Hide Product specification **A** 

Hide Data quality report - Quantitative attribute accuracy

Hide Data Quality

## 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, Transportation Safety Unit in conjunction with the GIS Unit at NCDIT-T, to provide a geographic representation of interchange locations 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

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**

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 NC POSTAL CODE 27610 E-MAIL ADDRESS gishelp@ncdot.gov

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

#### **CONTACT INSTRUCTIONS**

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Hide Contact information **A** 

Hide Process step 🔺

#### 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**

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 E-MAIL Address gishelp@ncdot.gov

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

#### CONTACT INSTRUCTIONS

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Hide Contact information **A** 

Hide Process step ▲

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 Transportation Safety Unit in an enterprise environment using Esri's online ArcGIS Event Editor software.

PROCESS CONTACT ORGANIZATION'S NAME North Carolina Department of Transportation, Transportation Safety Unit CONTACT'S POSITION Traffic Safety Engineer CONTACT'S ROLE point of contact

CONTACT INFORMATION PHONE VOICE 919-814-5000

Address Type physical Delivery point 750 North Greenfield Parkway City Garner Administrative area NC Postal code 27529 Country US

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

#### CONTACT INSTRUCTIONS

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Hide Contact information A

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 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, please indicate as such in the subject line in an email.

Hide Contact information

Hide Distributor

DISTRIBUTION FORMAT NAME SDE Geodatabase Feature Class VERSION 10.8.1

## **Fields** ►

- DETAILS FOR OBJECT LRSE\_Interchange
- TYPE SDE Geodatabase Feature Class
- \* Row Count 0
- DEFINITION
  - Interchange

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 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 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

DESCRIPTION OF VALUES Dates vary.

Hide Field FromDate 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. Hide Field ToDate 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. Hide Field EventID FIELD Measure \* ALIAS Measure \* DATA TYPE Double \* WIDTH 8 \* PRECISION 0 \* SCALE 0 FIELD DESCRIPTION The measure on the route where 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. Hide Field Measure FIELD Interchange \* ALIAS Interchange \* DATA TYPE Integer \* WIDTH 4 \* PRECISION 0

\* SCALE 0

**DESCRIPTION SOURCE** 

### NCDOT

FIELD DESCRIPTION

Interchange identification number.

DESCRIPTION OF VALUES Values vary.

Hide Field Interchange

#### 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.

Hide Field RouteID ▲

### 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 ROUTE 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

DESCRIPTION OF VALUES Values vary.

Hide Field LocError ▲

## FIELD CreatedUser ►

- \* ALIAS CreatedUser
- \* DATA TYPE String
- \* WIDTH 255
- \* PRECISION 0
- \* SCALE 0
- FIELD DESCRIPTION

The user's name who created the event record.

DESCRIPTION SOURCE

DESCRIPTION OF VALUES Values vary.

Hide Field CreatedUser ▲

### FIELD CreatedDate ►

- \* ALIAS CreatedDate
- \* DATA TYPE Date
- \* WIDTH 8
- \* PRECISION 0
- \* SCALE 0
- FIELD DESCRIPTION

Date event record was created.

DESCRIPTION SOURCE

DESCRIPTION OF VALUES

Dates vary.

Hide Field CreatedDate

#### FIELD LastEditedUser ►

- \* ALIAS LastEditedUser
- \* DATA TYPE String
- \* WIDTH 255
- \* PRECISION 0
- \* SCALE 0
- FIELD DESCRIPTION

The user's name who last edited the event record.

DESCRIPTION SOURCE

DESCRIPTION OF VALUES Values vary.

Hide Field LastEditedUser

#### 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.

Hide Field GlobalID ▲

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

DESCRIPTION OF VALUES Dates vary.

Hide Field LastEditedDate

Hide Details for object LRSE\_Interchange ▲

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 2023-12-18

ARCGIS METADATA PROPERTIES METADATA FORMAT ArcGIS 1.0 STANDARD OR PROFILE USED TO EDIT METADATA ISO19139

CREATED IN ARCGIS FOR THE ITEM 2022-09-03 17:01:23 LAST MODIFIED IN ARCGIS FOR THE ITEM 2023-12-18 11:47:40

AUTOMATIC UPDATES HAVE BEEN PERFORMED Yes LAST UPDATE 2023-12-18 11:47:40 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

TYPE physical DELIVERY POINT Century Center – Building B, 1020 Birch Ridge Drive CITY Raleigh ADMINISTRATIVE AREA NC POSTAL CODE 27610 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, please indicate as such in the subject line in an email.

Hide Contact information

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

CONTACT INFORMATION ADDRESS TYPE physical DELIVERY POINT Century Center – Building B, 1020 Birch Ridge Drive CITY Raleigh ADMINISTRATIVE AREA NC POSTAL CODE 27610 E-MAIL ADDRESS gishelp@ncdot.gov

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Hide Contact information **A** 

## Metadata Constraints 🕨

### CONSTRAINTS

#### LIMITATIONS OF USE

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.

#### SECURITY CONSTRAINTS

CLASSIFICATION Unclassified CLASSIFICATION SYSTEM None

#### LIMITATIONS OF USE

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.

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Hide Metadata Constraints

## Thumbnail and Enclosures

THUMBNAIL THUMBNAIL TYPE JPG

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