

NC Permit Information Management System: NCRouteCharPIMS, Continuous Capture – NC Department of Transportation Geodatabase Feature Class



Tags Line, North Carolina, NCDOT, Transportation, Permit Information Management System, PIMS, Routing, Truck, Superload, Highways, Primary, NC, Major Roads, SR, Roads, Secondary, US, Interstate, Streets, Centerline, State maintained roads, State Routes Network, Non-System Routes, Structures, Bridges, Signs, Clearances, Weights, County, NCDOT Division

Summary

This linear dataset was created for the express purpose of routing oversized/overweight vehicles along state-maintained roads in North Carolina within the Permit Information Management System (PIMS) application supplied by NCDOT's Engineering Applications Development group. No usage outside the PIMS application should be attempted. Certain aspects of the original line and structures data layers were modified for usage within the PIMS application and non-PIMS usage can result in incorrect routes, especially for general vehicular usage.

NCDOT road centerline and route characteristics spatial data can be used to create networks, but they are not designed with this use in mind. This is a custom PIMS product generated by various dissolves of NCRouteCharacteristics/Route Arcs for PIMS route reference use. Certain subsets may not work or even exist in our linework, so it should not be assumed that it will work for all applications.

Description

An arc layer for visual representation of state-maintained and non-system road centerlines segmented by a subset of road characteristics necessary for routing.

The NCDOT Permit Information Management System (PIMS) is designed for processing annual, single trip, and superload permits for the transportation of qualifying oversized/overweight vehicles and loads over North Carolina state maintained highways.

Weight exceeds legal weight provided by North Carolina General Statutes,

Total width is over 8'6",

Overall height is greater than 14',

A single vehicle is over 40' or a vehicle combination is over 60' in length (Exception: truck tractor/53-foot semi-trailer combination with no overall length limitation is allowed on all roads)

More information is available in the NCDOT Oversize/Overweight Permit Handbook:

<https://connect.ncdot.gov/business/trucking/Documents/Oversize%20Overweight%20Permit%20Handbook.pdf>

Permits can be applied for, edited, and managed through the online PIMS application:

<https://pims.services.ncdot.gov>

The following sections are the main components of the PIMS online application process when editing or applying for a new permit. See the PIMS Customer Guide for full instructions.

Permit and Requestor: View and edit information related to the permit and permit requestor.

Vehicle: Power Unit and NCDMV State Titling and Registration System (STARS) information.

Loads: Contains load, details, dimensions, and weights information.

Route: A feature-rich, interactive **mapping application** designed for creating the route to be driven from the beginning location to the end location in North Carolina. The routing engine for the map finds routes without width, height, or weight restrictions. See the OPIMS Internal Routing User Guide for complete instructions for working with the map's features and tools.

Fees: Provides a location for permit payments to be recorded.

Notes: Provides a location to store notes about the permit application.

Cancel: Allows the customer to the cancel the permit application if necessary.

Credits

North Carolina Department of Information Technology-Transportation, GIS Unit: Product creation, system geometry, mileage, event overlays, and network layer creation.

Local County Government – Non-system geometry, Street Name event.

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 dataset was created for the express purpose of routing overweight/oversize vehicles along state-maintained roads within the PIMS application supplied by NCDOT's Engineering Applications Development group. No usage outside this application should be attempted. NCDIT-T roads might be used to create networks, but they are not designed with this use in mind. This layer is specialized, and its use & restrictions depend on the included attributes. Certain subsets may not work or even exist in our linework, so it should not be assumed that they will work for all applications.

Extent

West -84.421464

East -75.418363

North 36.615120

South 33.733304

Scale Range

Maximum (zoomed in) 1:5,000

Minimum (zoomed out) 1:500,000

Topics and Keywords

Themes or categories of the resource Location, Structure, Transportation

Content type Geographic Services

Export to FGDC CSDGM XML format as Resource Description No

Theme keywords Line, North Carolina, NCDOT, Transportation, Permit Information Management System, PIMS, Routing, Truck, Superload, Highways, Primary, NC, Major Roads, SR, Roads, Secondary, US, Interstate, Streets, Centerline, State maintained roads, State Routes Network, Non-System Routes, Structures, Bridges, Signs, Clearances, Weights, County, NCDOT Division

Thesaurus

Title User

Creation date 2026-07-23 00:00:00

Publication date 2026-07-23 00:00:00

Place keywords County, North Carolina, Division

Thesaurus

Title User

Creation date 2026-07-23 00:00:00

Publication date 2026-07-23 00:00:00

Citation

Title NC Permit Information Management System: NCRouteCharPIMS, Continuous Capture – NC Department of Transportation

Alternate titles NC Route Characteristics PIMS

Creation date 2026-07-23 00:00:00

Publication date 2026-07-23 00:00:00

Presentation formats digital map

FGDC geospatial presentation format vector digital data

Citation Contacts

Responsible party - point of contact

Organization's name North Carolina Department of Information Technology-Transportation, Geographic Information Systems 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 PIMS Geodatabase. If it is an immediate need, please indicate as such in the subject line in an email.

Responsible party - originator

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

Contact's position GIS Data and Services Consultant

Contact information

Address

Type

Delivery point Century Center Building B, 1020 Birch Ridge Drive

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Responsible party - resource provider

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

Contact's position GIS Data and Services Consultant

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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 Microsoft Windows 10 Version 10.0 (Build 26100) ; Esri ArcGIS 13.4.0.55405

Credits

North Carolina Department of Information Technology-Transportation, GIS Unit: Product creation, system geometry, mileage, event overlays, and network layer creation.

Local County Government – Non-system geometry, Street Name event.

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Extents

Extent

Geographic extent

Bounding rectangle

Extent type Extent used for searching

West longitude -84.421464

East longitude -75.418363

North latitude 36.615120

South latitude 33.733304

Extent contains the resource No

Vertical extent

Minimum value -59.600000

Maximum value 6577.400000

Extent in the item's coordinate system

westBL 406980.080272

eastBL 3051823.000288

southBL 35982.805072

northBL 1042847.424976

exTypeCode Yes

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

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Resource Maintenance

Resource maintenance

Update frequency continual

Scope of the updates dataset

Other maintenance requirements

North Carolina Department of Information Technology-Transportation, GIS Unit: Product creation, system geometry, mileage, event overlays, and network layer creation.

NCDOT Transportation Planning Branch: Functional Class.

NCDOT Structures Management Unit – Structures.

NCDOT Asset Analytics: Events.

Local County Government – Non-system geometry, Street Name event.

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 - 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

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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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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 9.999999999999995e-07
HighPrecision true
LatestWKID 2264
VCSWKID 105703
LatestVCSWKID 6360
WKT

PROJCS["NAD_1983_StatePlane_North_Carolina_FIPS_3200_Feet",GEOGCS["GCS_North_American_1983",DATUM["79.0"],PARAMETER["Standard_Parallel_1",34.33333333333334],PARAMETER["Standard_Parallel_2",36.16666666666667],

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 NCRouteCharPIMS
Object type composite
Object count 409565

ArcGIS Feature Class Properties

Feature class name NCRouteCharPIMS
Feature type Simple
Geometry type Polyline
Has topology FALSE
Feature count 409565
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

After processing and based on the availability of the submitter, 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 2026-07-23 00:00:00

Publication date 2026-07-23 00:00:00

Data quality report - Conceptual consistency

Data quality measure reference

Measure description

This dataset is converted to file geodatabase (FGDB) format. Data quality is not automated as part of the conversion process and assessed on an irregular basis.

Conformance test results

Test passed Yes

Result explanation

Pass

Product specification

Title NCDOT Geospatial Data Specifications

Creation date 2026-07-23 00:00:00

Publication date 2026-07-23 00:00:00

Data quality report - Quantitative attribute accuracy

Data quality measure reference

Measure description

The source data may be checked using standard review procedures. Attributes and null values were checked by using visual inspection as well as automated verification routines. Geometry checks may be performed as a post process by users.

Conformance test results

Test passed Yes

Result explanation

Pass.

Product specification

Title NCDOT Geospatial Data Specifications

Creation date 2026-07-23 00:00:00

Publication date 2026-07-23 00:00:00

Lineage

Lineage statement

This dataset was created for the express purpose of routing oversized/overweight vehicles along state-maintained roads within the PIMS application supplied by NCDOT's Engineering Applications Development group. This is a custom PIMS product generated by various dissolves of NCRouteCharacteristics/Route Arcs for PIMS route reference use.

Process step

When the process occurred 2026-07-15 00:00:00

Description

The Spatial Data Operations Group of the NCDIT-T, GIS Unit develops and maintains NCDOT's Linear Referencing System of state-maintained routes and non-system roads.

Process contact - originator

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

Contact's position GIS Data and Services Consultant

Contact information

Address

Type

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

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

Process step

When the process occurred 2026-07-17 00:00:00

Description

Run internal program to create product.

Process contact - processor

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

Contact's position GIS Data and Services Consultant

Contact information

Address

Type

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

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

Process step

When the process occurred 2026-07-23 00:00:00

Description

Data is published to the web as a service and utilized by the PIMS application.

Process contact - processor

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

Contact's position GIS Data and Services Consultant

Contact information

Address

Type

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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Distribution

Distributor

Contact information - distributor

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

Contact's position GIS Data and Services Consultant

Contact information

Address

Type

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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Distribution format

Name File Geodatabase Feature Class

Version ArcGIS Pro 3.4.3

Fields

Details for object NCRouteCharPIMS

Type Feature Class

Row count 409565

Definition

NCRouteCharPIMS

Definition source

NCDOT

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 Division

Alias Division

Data type Small Integer

Width 2

Precision 0

Scale 0

Field description

The NCDOT division number for each route segment.

Description source

NCDOT

Range of values

Minimum value 1

Maximum value 14

Field MaintCntyCode

Alias MaintCntyCode

Data type String

Width 3

Precision 0

Scale 0

Field description

For state-maintained roads, it is the county responsible for maintaining the section of road. For non-state-maintained roads, it is the county that the segment is located in.

Description source

NCDOT

Description of values

Values vary. The coded domain values reflect the alphabetical order of North Carolina's counties, with a range from 001 (Alamance County) to 100 (Yancey County). Codes for roads maintained by NCDOT, but cross

the state boundary: 901 (Georgia), 902 (South Carolina), 903 (Tennessee), 904 (Virginia).
In general, the MaintCntyCode will have the same value as other county fields, with exceptions around county boundaries. For Example, a portion of SR-1828 is in Yadkin County but maintained by Iredell County. The MaintCntyCode for this section is 049 (Iredell County).

Field RouteId

Alias RouteId

Data type String

Width 15

Precision 0

Scale 0

Field description

The 11-digit composite route number. A unique identifier for routes across the state; Should be used as the route identifier when performing LRS analysis with route/milepost referencing.

Description source

NCDOT

Description of values

Values vary.

Field RouteClass

Alias RouteClass

Data type String

Width 5

Precision 0

Scale 0

Field description

The NCDOT route class for the 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 Area (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

Field RouteNumber

Alias	RouteNumber
Data type	String
Width	5
Precision	0
Scale	0

Field description

The NCDOT route number for the dominant route. The Route Number is represented by the 4th – 8th digits of the RouteID.

Description source

NCDOT

Description of values

Values vary.

Field RouteQualifier

Alias	RouteQualifier
Data type	String
Width	5
Precision	0
Scale	0

Field description

The NCDOT route qualifier for the dominant route.

On state-maintained routes, Values of 0 (Normal) indicate the regular route, while other Values indicate a

related route (e.g., I-95 and I-95 Business). The Route Qualifier is represented by the 2nd digit of the Route ID (except for Ramps and Rest Areas, where the first two digits of the Route ID for ramps are 80 or 82 and for Rest Areas are 81).

Description source

NCDOT

List of values

Value 0

Enumerated domain value definition source NCDOT

Description Normal Route

Value 1

Description Alternate Route

Enumerated domain value definition source NCDOT

Value 2

Description Bypass Route

Enumerated domain value definition source NCDOT

Value 5

Description East Route

Enumerated domain value definition source NCDOT

Value 6

Description West Route

Enumerated domain value definition source NCDOT

Value 7

Description Spur/Connector Route

Enumerated domain value definition source NCDOT

Value 8

Description Truck Route

Enumerated domain value definition source NCDOT

Value 80

Description Ramp

Enumerated domain value definition source NCDOT

Value 81

Description Rest Area

Enumerated domain value definition source NCDOT

Value 82

Description Non-System Ramp

Enumerated domain value definition source NCDOT

Value 9

Description Business Route

Enumerated domain value definition source NCDOT

Field RouteInventory

Alias RouteInventory

Data type String

Width 1

Precision 0

Scale 0

Field description

The NCDOT route direction for the dominant route.

Inventory directions are coded with Inventory (0) or Clockwise (8). All other values indicate the non-inventory direction of the route. Route inventory is represented by the 3rd position of the route ID.

Description source

NCDOT

List of values

Value 0

Description Inventory. Includes bidirectional, Northbound, Eastbound, and one-way inventory.

Enumerated domain value definition source NCDOT

Value 4

Description Non-Inventory (Southbound). On secondary routes, rest areas, and non-state-maintained route classes, "Southbound" means non-inventory.

Enumerated domain value definition source NCDOT

Value 6

Description Non-Inventory (Westbound). Primary routes only (Interstates, US Routes, and NC Routes).

Enumerated domain value definition source NCDOT

Value 8

Description Inventory (Clockwise). Primary routes only (Interstates, US Routes, and NC Routes)..

Enumerated domain value definition source NCDOT

Value 9

Description Non-Inventory (Counterclockwise). Primary routes only (Interstates, US Routes, and NC Routes)..

Enumerated domain value definition source NCDOT

Field RouteName

Alias RouteName

Data type String

Width 20

Precision 0

Scale 0

Field description

The NCDOT name of the dominant route. A concatenation of Route Class, Route Number, and Route Qualifier.

Description source

NCDOT

Description of values

Text values vary.

Field LocCntyCode

Alias LocCntyCode

Data type String

Width 4

Precision 0

Scale 0

Field description

The county the segment is physically located in.

Description source

NCDOT

Description of values

Values vary among the 100 NC county names.

Field StreetName

Alias StreetName

Data type String

Width 75

Precision 0

Scale 0

Field description

The name of the street (ex. 'Main Street').

Description source

NCDOT

Description of values

Values vary.

Field BeginMp

Alias BeginMp

Data type Double

Width 8

Precision 0

Scale 0

Field description

The beginning milepost value for the route segment.

Description source

NCDOT

Description of values

Values vary.

Field EndMp

Alias EndMp

Data type Double

Width 8

Precision 0

Scale 0

Field description

The ending milepost value for the route segment.

Description source

NCDOT

Description of values

Values vary.

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 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)

Metadata character set utf8 - 8 bit UCS Transfer Format

Scope of the data described by the metadata dataset

Scope name dataset

Last update 2026-07-28

ArcGIS metadata properties

Metadata format ArcGIS 1.0

Standard or profile used to edit metadata ISO19139

Created in ArcGIS for the item 2026-07-23 09:11:24

Last modified in ArcGIS for the item 2026-07-28 12:57:25

Automatic updates

Have been performed Yes

Last update 2026-07-28 09:21:11

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

Delivery point Century Center Building B, 1020 Birch Ridge Drive

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Metadata Maintenance

Maintenance

Update frequency as needed

Scope of the updates dataset

Maintenance 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

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Metadata Constraints

Constraints

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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.

This dataset was created for the express purpose of routing overweight/oversize vehicles along state-maintained roads within the PIMS application supplied by NCDOT's Engineering Applications Development group. No usage outside this application should be attempted. NCDIT-T roads might be used to create networks, but they are not designed with this use in mind. This layer is specialized, and its use & restrictions depend on the included attributes. Certain subsets may not work or even exist in our linework, so it should not be assumed that they will work for all applications.

Thumbnail and Enclosures

Thumbnail

Thumbnail type

Image file