

North Carolina Rail Crossings – 2nd Quarter 2025 - North Carolina Department of Transportation

File Geodatabase Feature Class



Tags

NC, North Carolina, NCDOT, Official NCDOT, Transportation, Railroad, Rail, Crossing, Railway

Summary

This dataset is made available to provide a representation of state maintained railroad crossings for mapping, planning and modeling purposes. Locations are approximate and data is not guaranteed to be complete.

Description

The dataset provided includes point data for use in GIS that represents public crossings and private crossings with public access in North Carolina. Only open and inactive crossings are included; closed crossings have been omitted. Attributes for each crossing include the crossing's FRA identification number and the latitude and longitude of the crossing. Crossing location and status were verified by cross-referencing Federal Railroad Administration public crossing database with North Carolina Department of Transportation Rail Division's crossing database, railroad company track charts and aerial imagery. Where in doubt, crossing status has been investigated by contacting the rail company, land owner, or municipality within whose jurisdiction the crossing falls. The attributes are derived directly from NCDOT's Statewide Authoritative Railroad and Highway (SARAH) database.

Credits

North Carolina Department of Transportation Rail Division, Moffatt & Nichol Engineers, WGI

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 -84.124533 **East** -76.090847

North 36.572504 **South** 33.846568

Scale Range

Maximum (zoomed in) 1:5,000

Minimum (zoomed out) 1:625,000

[ArcGIS Metadata](#) ►

[Topics and Keywords](#) ►

THEMES OR CATEGORIES OF THE RESOURCE transportation

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

THEME KEYWORDS Transportation, Railways, Rail Crossings

[Hide Topics and Keywords ▲](#)

Citation ►

TITLE North Carolina Rail Crossings – 2nd Quarter 2025 - North Carolina Department of Transportation
PUBLICATION DATE 2025-08-11 00:00:00
CREATION DATE 2013-08-01 00:00:00
REVISION DATE 2025-08-01 00:00:00

PRESENTATION FORMATS * digital map

[Hide Citation ▲](#)

Citation Contacts ►

RESPONSIBLE PARTY
INDIVIDUAL'S NAME Todd Meyer
ORGANIZATION'S NAME NCDOT Rail Division
CONTACT'S POSITION Inventory & Data Analysis Manager
CONTACT'S ROLE custodian

CONTACT INFORMATION ►

PHONE
VOICE 9197074121

ADDRESS
TYPE postal
DELIVERY POINT 1556 Mail Service Center
CITY Raleigh
ADMINISTRATIVE AREA NC
POSTAL CODE 27699
COUNTRY US
E-MAIL ADDRESS tmeyer@ncdot.gov

[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 Version 6.2 (Build 9200) ; Esri ArcGIS 10.8.1.14362

CREDITS
North Carolina Department of Transportation Rail Division, Moffatt & Nichol Engineers, WGI

ARCGIS ITEM PROPERTIES
* NAME RailroadCrossings

[Hide Resource Details ▲](#)

Extents ►

EXTENT

DESCRIPTION

Date data was obtained from State Authoritative Rail and Highway (SARAH) database.

TEMPORAL EXTENT

DATE AND TIME 2025-08-01 00:00:00

EXTENT

GEOGRAPHIC EXTENT

BOUNDING RECTANGLE

EXTENT TYPE Extent used for searching

* WEST LONGITUDE -84.124533

* EAST LONGITUDE -76.090847

* NORTH LATITUDE 36.572504

* SOUTH LATITUDE 33.846568

* EXTENT CONTAINS THE RESOURCE Yes

EXTENT IN THE ITEM'S COORDINATE SYSTEM

* WEST LONGITUDE 493586.790479

* EAST LONGITUDE 2854662.538463

* SOUTH LATITUDE 72807.773870

* NORTH LATITUDE 1027329.782473

* EXTENT CONTAINS THE RESOURCE Yes

[Hide Extents ▲](#)

Resource Points of Contact ►

POINT OF CONTACT

INDIVIDUAL'S NAME Todd Meyer

ORGANIZATION'S NAME NCDOT Rail Division

CONTACT'S POSITION Inventory & Data Analysis Manager

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E-MAIL ADDRESS tmeyer@ncdot.gov

[Hide Contact information ▲](#)

[Hide Resource Points of Contact ▲](#)

Resource Maintenance ►

RESOURCE MAINTENANCE

DATE OF NEXT UPDATE 2025-11-01 00:00:00

UPDATE FREQUENCY quarterly

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

ADDITIONAL RESTRICTIONS

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

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

DIMENSION horizontal

VALUE SR-ORG:12

* 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 RailroadCrossings

* OBJECT TYPE point

* OBJECT COUNT 5160

[Hide Vector ▲](#)

ARCGIS FEATURE CLASS PROPERTIES ►

FEATURE CLASS NAME RailroadCrossings

* FEATURE TYPE Simple

* GEOMETRY TYPE Point

* HAS TOPOLOGY FALSE

* FEATURE COUNT 5160

* 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 - CONCEPTUAL CONSISTENCY ►

MEASURE DESCRIPTION

There are no measurement, precision, or spatial standards assigned to this data set.

QUANTITATIVE TEST RESULTS

VALUE Shape_Length

UNITS

SYMBOL [ft_us]

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

DATA QUALITY REPORT - COMPLETENESS OMISSION ►

MEASURE DESCRIPTION

There are no measurement, precision, or spatial standards assigned to this data set.

CONFORMANCE TEST RESULTS

TEST PASSED Yes

RESULT EXPLANATION

Complies with SARAH data.

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

DATA QUALITY REPORT - ABSOLUTE EXTERNAL POSITIONAL ACCURACY ►

DIMENSION horizontal

MEASURE DESCRIPTION

Various sources with varying degree of accuracy have been used over time to create/update this dataset. NCDOT used best available information at the time of editing.

CONFORMANCE TEST RESULTS

TEST PASSED Yes

RESULT EXPLANATION

Complies with current SARAH data.

[Hide Data quality report - Absolute external positional accuracy ▲](#)

[Hide Data Quality ▲](#)

Lineage ►

LINEAGE STATEMENT

Moffatt & Nichol Engineers initially performed analysis to verify the location of every open public crossing in the state of North Carolina. Subsequent updates added all pedestrian and inactive crossings to the dataset. Dataset is updated by NCDOT Rail Division and offered as an online resource by the NCDIT-Transportation GIS Unit.

Crossing locations from several sources were compared and the probable location of each crossing was determined. Sources include NCDOT Rail Division's Statewide Authoritative Rail and Highway (SARAH) database, Federal Railroad Administration's crossing database, NCDOT State Route LRS dataset. Where study of these resources was unable to positively locate a crossing, each crossing was individually investigated by contacting the land owner, controlling municipality, or the relevant railroad company.

Additional crossing attributes have been ported from the NCDOT SARAH Database by WGI. These attributes are maintained as a separate data source and have been imported without any additional processing or analysis.

PROCESS STEP ▶

WHEN THE PROCESS OCCURRED 2019-10-10 00:00:00

DESCRIPTION

Review Metadata and process for publication.

PROCESS CONTACT

ORGANIZATION'S NAME North Carolina Department of Transportation Geographic Information Systems Unit

CONTACT'S POSITION GIS Help Desk

CONTACT'S ROLE distributor

CONTACT INFORMATION ▶

PHONE

VOICE 919.707.2165

FAX 919.707.2210

ADDRESS

TYPE both

DELIVERY POINT Century Center Building B, 1020 Birch Ridge Drive

CITY Raleigh

ADMINISTRATIVE AREA North Carolina

POSTAL CODE 27604

COUNTRY US

E-MAIL ADDRESS gishelp@ncdot.gov

HOURS OF SERVICE

8am to 5pm, M-F

CONTACT INSTRUCTIONS

phone or email

[Hide Contact information ▲](#)

[Hide Process step ▲](#)

[Hide Lineage ▲](#)

Distribution ▶

DISTRIBUTOR ▶

CONTACT INFORMATION

ORGANIZATION'S NAME North Carolina Department of Transportation Geographic Information Systems Unit

CONTACT'S POSITION GIS Help Desk

CONTACT'S ROLE distributor

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8am to 5pm, M-F

CONTACT INSTRUCTIONS
phone or email

[Hide Contact information ▲](#)

[Hide Distributor ▲](#)

DISTRIBUTION FORMAT
VERSION 10.5
* NAME File Geodatabase Feature Class

TRANSFER OPTIONS
ONLINE SOURCE
LOCATION <https://connect.ncdot.gov/resources/gis/Pages/GIS-Data-Layers.aspx>

[Hide Distribution ▲](#)

Fields ►

DETAILS FOR OBJECT [RailroadCrossings ►](#)

* TYPE Feature Class
* ROW COUNT 5160

DEFINITION
Point data representing all open/inactive, public crossing points in North Carolina

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

[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 CrossingId ►

- ALIAS Crossing ID
- * DATA TYPE String
- * WIDTH 100
- * PRECISION 0
- * SCALE 0

FIELD DESCRIPTION

The US DOT Crossing Inventory Number contains six digits followed by an alpha check character. The alpha character is a check to ensure that the number is valid and provides a unique identifying number which was designed to prevent the possibility of error by ensuring that the crossing information is recorded for the correct location.

DESCRIPTION SOURCE

U.S. DOT - FRA

DESCRIPTION OF VALUES

Six digits followed by an alpha check character

Hide Field CrossingId ▲

FIELD PrfxMilePost ►

- ALIAS Milepost Prefix
- * DATA TYPE String
- * WIDTH 100
- * PRECISION 0
- * SCALE 0

FIELD DESCRIPTION

Prefix to the railroad milepost.

DESCRIPTION SOURCE

NCDOT Rail Division

DESCRIPTION OF VALUES

3 digit-maximum code chosen by the operating railroad company

[Hide Field PrfxMilePost ▲](#)

FIELD **PosXing** ►

ALIAS Crossing Position

* DATA TYPE String

* WIDTH 100

* PRECISION 0

* SCALE 0

FIELD DESCRIPTION

Position of the railroad relative to the crossing.

DESCRIPTION SOURCE

NCDOT

LIST OF VALUES

VALUE AT GRADE

DESCRIPTION Railroad intersects roadway

ENUMERATED DOMAIN VALUE DEFINITION SOURCE NCDOT

VALUE RR OVER

DESCRIPTION Railroad is grade separated over roadway

ENUMERATED DOMAIN VALUE DEFINITION SOURCE NCDOT

VALUE RR UNDER

DESCRIPTION Railroad is grade separated under roadway

ENUMERATED DOMAIN VALUE DEFINITION SOURCE NCDOT

[Hide Field PosXing ▲](#)

FIELD **XPurpose** ►

ALIAS Crossing Purpose

* DATA TYPE String

* WIDTH 100

* PRECISION 0

* SCALE 0

FIELD DESCRIPTION

Purpose of the crossing.

DESCRIPTION SOURCE

NCDOT Rail Division

LIST OF VALUES

VALUE HIGHWAY

DESCRIPTION Highway use

ENUMERATED DOMAIN VALUE DEFINITION SOURCE NCDOT

VALUE PATHWAY, PED.

DESCRIPTION Pedestrian use, not within a passenger station

ENUMERATED DOMAIN VALUE DEFINITION SOURCE NCDOT

VALUE STATION, PED.

DESCRIPTION Pedestrian use within a passenger station

ENUMERATED DOMAIN VALUE DEFINITION SOURCE NCDOT

[Hide Field XPurpose ▲](#)

FIELD **SfxMilePost** ►

ALIAS Milepost Suffix

* DATA TYPE String

* WIDTH 10

* PRECISION 0

* SCALE 0

FIELD DESCRIPTION

Suffix to the railroad milepost.

DESCRIPTION SOURCE

NCDOT Rail Division

DESCRIPTION OF VALUES

3 digit-maximum code chosen by the operating railroad company

Hide Field SfxMilePost ▲

FIELD **TypeXing** ►

* ALIAS Crossing Type

* DATA TYPE String

* WIDTH 10

* PRECISION 0

* SCALE 0

FIELD DESCRIPTION

The type of crossing. Based on the maintainer of crossing or roadway.

DESCRIPTION SOURCE

FRA

LIST OF VALUES

VALUE PUBLIC

DESCRIPTION The crossing is located where a public highway, road, or street crosses one or more railroad tracks either at grade or grade-separated. The crossing is a public pathway explicitly authorized by a public authority that is dedicated for the use of non-vehicular traffic, including pedestrians, bicyclists, and others, which is not associated with a public highway, road, or street. The crossing is a pathway explicitly authorized by a public authority or a railroad carrier that is dedicated for the use of non-vehicular traffic and is located within a railway station.

ENUMERATED DOMAIN VALUE DEFINITION SOURCE FRA

VALUE PRIVATE

DESCRIPTION The crossing is a location where a private roadway crosses one or more railroad tracks either at grade or grade-separated. The crossing is a private pathway, either at grade or grade-separated, explicitly authorized by a railroad carrier that is dedicated for the use of non-vehicular traffic, including pedestrians, bicyclists, and others, which is not associated with a private roadway.

ENUMERATED DOMAIN VALUE DEFINITION SOURCE FRA

Hide Field TypeXing ▲

FIELD **Street** ►

* ALIAS Street

* DATA TYPE String

* WIDTH 255

* PRECISION 0

* SCALE 0

FIELD DESCRIPTION

Values represent the name of the highway or street. If multiple street names exist at a crossing then each is separated by a slash " / ".

DESCRIPTION SOURCE

NCDOT

DESCRIPTION OF VALUES

Street name spelled without abbreviations.

Hide Field Street ▲

FIELD Nearest ►

ALIAS In or Near

* DATA TYPE String

* WIDTH 25

* PRECISION 0

* SCALE 0

FIELD DESCRIPTION

In or Near municipal boundaries.

DESCRIPTION SOURCE

NCDOT

LIST OF VALUES

VALUE In

DESCRIPTION Crossing falls within municipal boundaries

ENUMERATED DOMAIN VALUE DEFINITION SOURCE NCDOT

VALUE Near

DESCRIPTION Crossing does not fall within any municipal boundaries

ENUMERATED DOMAIN VALUE DEFINITION SOURCE NCDOT

Hide Field Nearest ▲

FIELD Highway ►

* ALIAS Highway

* DATA TYPE String

* WIDTH 15

* PRECISION 0

* SCALE 0

FIELD DESCRIPTION

The Highway Type, Number and Designation.

DESCRIPTION SOURCE

NCDOT

LIST OF VALUES

VALUE US

DESCRIPTION US Route

ENUMERATED DOMAIN VALUE DEFINITION SOURCE NCDOT

VALUE NC

DESCRIPTION NC Route

ENUMERATED DOMAIN VALUE DEFINITION SOURCE NCDOT

VALUE I
DESCRIPTION Interstate
ENUMERATED DOMAIN VALUE DEFINITION SOURCE NCDOT

VALUE SR
DESCRIPTION Secondary Route
ENUMERATED DOMAIN VALUE DEFINITION SOURCE NCDOT

VALUE LS
DESCRIPTION Local Street
ENUMERATED DOMAIN VALUE DEFINITION SOURCE NCDOT

VALUE NON
DESCRIPTION Pedestrian Path, not a roadway
ENUMERATED DOMAIN VALUE DEFINITION SOURCE NCDOT

VALUE BYP
DESCRIPTION Bypass
ENUMERATED DOMAIN VALUE DEFINITION SOURCE NCDOT

VALUE BUS
DESCRIPTION Business
ENUMERATED DOMAIN VALUE DEFINITION SOURCE NCDOT

VALUE ALT
DESCRIPTION Alternate
ENUMERATED DOMAIN VALUE DEFINITION SOURCE NCDOT

Hide Field Highway ▲

FIELD CityCD ►

ALIAS City
* DATA TYPE String
* WIDTH 255
* PRECISION 0
* SCALE 0

FIELD DESCRIPTION

Values represent the name of the city, town, or village where the crossing is located (maximum of 32 characters) which must be a valid location within the state.

DESCRIPTION SOURCE
NCDOT

DESCRIPTION OF VALUES

The City name must be recognized on the Geographic Locator Code list for North Carolina. The Geographic Locator Codes with updated city names and codes are available at <https://www.gsa.gov/reference/geographic-locator-codes-glcs-overview>.

Hide Field CityCD ▲

FIELD CntyCD ►

ALIAS County
* DATA TYPE String
* WIDTH 50
* PRECISION 0
* SCALE 0

FIELD DESCRIPTION

Values represent the county where the crossing is located. When a crossing is located on a county line, it is suggested that the crossing be inventoried in the county that is south or east geographically.

DESCRIPTION SOURCE

NCDOT

DESCRIPTION OF VALUES

North Carolina Counties

Hide Field CntyCD ▲

FIELD Railroad ►

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

FIELD DESCRIPTION

Values represent the valid railroad code (up to 4 letters) for the "Primary Operating Railroad" company, i.e., the railroad that operates train movements over the crossing. The primary operating railroad will normally be the reporting railroad, but may or may not own and maintain the roadbed, tracks, and signal system controlling the crossing.

DESCRIPTION SOURCE

NCDOT

DESCRIPTION OF VALUES

See FRA accepted RR codes

Hide Field Railroad ▲

FIELD MilePost ►

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

FIELD DESCRIPTION

Values represent the railroad milepost number in miles and thousandths of miles.

DESCRIPTION SOURCE

NCDOT

RANGE OF VALUES

- MINIMUM VALUE 0
- MAXIMUM VALUE 999

Hide Field MilePost ▲

FIELD DIVISION ►

- * ALIAS NCDOT Division
- * DATA TYPE SmallInteger

* WIDTH 2
* PRECISION 0
* SCALE 0

FIELD DESCRIPTION

The NCDOT Division number the crossing is in.

DESCRIPTION SOURCE

NCDOT

RANGE OF VALUES

MINIMUM VALUE 1
MAXIMUM VALUE 14

Hide Field DIVISION ▲

FIELD Latitude ►

* ALIAS Latitude
* DATA TYPE Double
* WIDTH 8
* PRECISION 0
* SCALE 0

FIELD DESCRIPTION

Latitude coordinate of the crossing

DESCRIPTION SOURCE

NCDOT

RANGE OF VALUES

MINIMUM VALUE 33.945853
MAXIMUM VALUE 36.540988
UNITS OF MEASURE Decimal Degrees

Hide Field Latitude ▲

FIELD Photo_N ►

ALIAS Photo North
* DATA TYPE String
* WIDTH 200
* PRECISION 0
* SCALE 0

FIELD DESCRIPTION

Link to a picture of the crossing, facing North

DESCRIPTION SOURCE

NCDOT

DESCRIPTION OF VALUES

Uniform Resource Locator for Crossing photos

Hide Field Photo_N ▲

FIELD Photo_S ►

ALIAS Photo South
* DATA TYPE String
* WIDTH 200

* PRECISION 0

* SCALE 0

FIELD DESCRIPTION

Link to a picture of the crossing, facing South

DESCRIPTION SOURCE

NCDOT

DESCRIPTION OF VALUES

Uniform Resource Locator for Crossing photos

[Hide Field Photo_S ▲](#)

FIELD Photo_E ►

ALIAS Photo East

* DATA TYPE String

* WIDTH 200

* PRECISION 0

* SCALE 0

FIELD DESCRIPTION

Link to a picture of the crossing, facing East

DESCRIPTION SOURCE

NCDOT

DESCRIPTION OF VALUES

Uniform Resource Locator for Crossing photos

[Hide Field Photo_E ▲](#)

FIELD Photo_W ►

ALIAS Photo West

* DATA TYPE String

* WIDTH 200

* PRECISION 0

* SCALE 0

FIELD DESCRIPTION

Link to a picture of the crossing, facing West

DESCRIPTION SOURCE

NCDOT

DESCRIPTION OF VALUES

Uniform Resource Locator for Crossing photos

[Hide Field Photo_W ▲](#)

FIELD Longitude ►

* ALIAS Longitude

* DATA TYPE Double

* WIDTH 8

* PRECISION 0
* SCALE 0
FIELD DESCRIPTION
Longitude coordinate of the crossing

DESCRIPTION SOURCE
NCDOT

RANGE OF VALUES
MINIMUM VALUE -84.038128
MAXIMUM VALUE -76.095401
UNITS OF MEASURE Decimal Degrees

Hide Field Longitude ▲

FIELD PolCont ►

ALIAS Emergency Contact
* DATA TYPE String
* WIDTH 100
* PRECISION 0
* SCALE 0

FIELD DESCRIPTION
Value represents the telephone number (area code and phone number) for the Emergency Notification System Contact (e.g., Law Enforcement, Railroad Emergency Contact or State Emergency Contact) associated with the crossing. Normally, this will be the ENS telephone number posted at the crossing or along the railroad branch line. This should be a 24-hour number that can be called to speak with an Emergency Notification Center who can send emergency responder(s) to the crossing in the event of problems, signal malfunctions, or other emergencies at the crossing. Note: 911 cannot be used as the Emergency Notification Telephone No.

DESCRIPTION SOURCE
NCDOT

DESCRIPTION OF VALUES
Any 10-digit phone number

Hide Field PolCont ▲

FIELD WARNING_TYPE ►

* ALIAS Warning Type
* DATA TYPE String
* WIDTH 50
* PRECISION 0
* SCALE 0

FIELD DESCRIPTION
The type of device installed at the railroad crossing which provides the highest level of warning regarding possible rail activity to a highway user.

DESCRIPTION SOURCE
NCDOT

LIST OF VALUES
VALUE 00 - NONE
DESCRIPTION No warning devices installed at crossing
ENUMERATED DOMAIN VALUE DEFINITION SOURCE NCDOT

VALUE 01 - CROSSBUCKS

DESCRIPTION Crossbuck signs (MUTCD R15-1) installed at crossing
ENUMERATED DOMAIN VALUE DEFINITION SOURCE NCDOT

VALUE 02 - TRAFFIC SIGNAL

DESCRIPTION Highway traffic signal installed at nearby highway intersection which controls traffic over crossing but does not detect approaching trains, with no other rail-related warning devices present
ENUMERATED DOMAIN VALUE DEFINITION SOURCE NCDOT

VALUE 03 - T. SIGNAL PRE.

DESCRIPTION Highway traffic signal installed at nearby highway intersection which controls traffic over crossing and does detect approaching trains, reacting to preempt normal operations and clear highway traffic off the crossing; might include train activated blank-out signs with the highway traffic signals, but no other train-activated warning devices present.
ENUMERATED DOMAIN VALUE DEFINITION SOURCE NCDOT

VALUE 04 - FLASHERS

DESCRIPTION Train activated flashing lights and bells installed at crossing on a vertical mast, with no crossing gate arms present.
ENUMERATED DOMAIN VALUE DEFINITION SOURCE NCDOT

VALUE 05 - CANTILEVERS

DESCRIPTION Train activated flashing lights and bells installed on a cantilevered structure over the traffic lanes, with no crossing gate arms present.
ENUMERATED DOMAIN VALUE DEFINITION SOURCE NCDOT

VALUE 06 - GATES

DESCRIPTION Train activated flashing lights, bells, and crossing gate arms installed along the highway approaches to a crossing ("entrance gates" only) on a vertical mast.
ENUMERATED DOMAIN VALUE DEFINITION SOURCE NCDOT

VALUE 07 - GATES AND CANT.

DESCRIPTION Train activated flashing lights, bells, and crossing gate arms installed along the highway approaches to a crossing ("entrance gates" only) on, or accompanying a cantilevered structure over the traffic lanes.
ENUMERATED DOMAIN VALUE DEFINITION SOURCE NCDOT

VALUE 08 - 4-QUAD GATES

DESCRIPTION Train activated flashing lights, bells, and crossing gate arms installed along the highway approaches to, and departures from a crossing ("entrance gates" and "exit gates"). The equipment can be installed on vertical masts or cantilevered structures over the traffic lanes.
ENUMERATED DOMAIN VALUE DEFINITION SOURCE NCDOT

VALUE 09 - VEHICLE DETECTION

DESCRIPTION 4-Quad Gates assembly with an additional vehicle detection system installed at the crossing which is capable of detecting and reporting in real-time the presence of a vehicle on the crossing and may adjust the lowering of the crossing "exit gates" as necessary to allow vehicles to clear the crossing.
ENUMERATED DOMAIN VALUE DEFINITION SOURCE NCDOT

Hide Field WARNING_TYPE ▲

FIELD LrsRouteid ►

- * ALIAS LRS Route ID
- * DATA TYPE String
- * WIDTH 20
- * PRECISION 0
- * SCALE 0

FIELD DESCRIPTION

The Route ID of the dominant route the crossing is located on, as defined by the Linear Referencing System (LRS) maintained by NCDIT-T's GIS Unit. When a route is represented by multiple lines (e.g.

Divided Highways), the Route ID and Milepost are taken from the Highway Inventory Route (e.g. Northbound or Eastbound route) if the crossing number covers both travel directions.

DESCRIPTION SOURCE

NCDOT

DESCRIPTION OF VALUES

Positive 11-digit numbers (text field) used as a unique identifier for routes across the state.

[Hide Field LrsRouteid ▲](#)

FIELD **LrsMilePost** ►

* ALIAS LRS Milepost

* DATA TYPE Double

* WIDTH 8

* PRECISION 0

* SCALE 0

FIELD DESCRIPTION

The milepost the crossing is located on the dominant route of the Linear Referencing System (LRS) maintained by NCDIT-T's GIS Unit. When a route is represented by multiple lines (e.g. Divided Highways), the Route ID and Milepost are taken from the Highway Inventory Route (e.g. Northbound or Eastbound route) if the crossing number covers both travel directions.

DESCRIPTION SOURCE

NCDOT

RANGE OF VALUES

MINIMUM VALUE 0

MAXIMUM VALUE 999

[Hide Field LrsMilePost ▲](#)

[Hide Details for object RailroadCrossings ▲](#)

[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 2025-08-01

ARCGIS METADATA PROPERTIES

METADATA FORMAT ArcGIS 1.0

METADATA STYLE FGDC CSDGM Metadata

STANDARD OR PROFILE USED TO EDIT METADATA ISO19139

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AUTOMATIC UPDATES

HAVE BEEN PERFORMED Yes

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METADATA CONTACT

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ORGANIZATION'S NAME NCDOT Rail Division
CONTACT'S POSITION Inventory & Data Analysis Manager
CONTACT'S ROLE custodian

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Metadata Maintenance ►

MAINTENANCE

DATE OF NEXT UPDATE 2025-11-01 01:00:00
UPDATE FREQUENCY quarterly

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Metadata Constraints ►

CONSTRAINTS

LIMITATIONS OF USE

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SECURITY CONSTRAINTS

CLASSIFICATION unclassified
CLASSIFICATION SYSTEM None

ADDITIONAL RESTRICTIONS
None

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