StructuresPoint, 3rd Quarter 2022 - NC Department of Transportation

Shapefile



Bridge, Pipe, Culvert, Bridge Maintenance Unit, SIP, SDV, Structures

Summary

Provide all currently-inventoried NC bridge structures in one consistent format for query and display. **Description**

Point file representing North Carolina bridges and other structures, extracted and attributed by the NCDOT Bridge Maintenance Unit's bridge database.

Credits

The bridge layer is a compilation of data originally found in the Bridge Inventory maps produced by the Mapping group of the State Road Maintenance Unit which has been supplemented with updates from the bridge database of the NCDOT's Bridge Maintenance Unit.

Use limitations

The availability and accuracy of the bridge dataset is dependent upon an ongoing process of integration between the NCDOT GIS Unit and the Bridge Maintenance Unit's bridge database. Discrepancies may exist since the frequency with which the sources are updated is not the same among the different groups. Please take this into account prior to utilizing the GIS bridge layer.

Extent

 West
 -84.402343
 East
 -75.423872

 North
 36.614200
 South
 33.769569

Scale Range

 Maximum (zoomed in)
 1:5,000

 Minimum (zoomed out)
 1:150,000,000

ArcGIS Metadata >

Topics and Keywords ►

THEMES OR CATEGORIES OF THE RESOURCE environment, inlandWaters, location, planningCadastre, structure, transportation

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

PLACE KEYWORDS North Carolina

TEMPORAL KEYWORDS Bridges - 3rd Quarter 2022, Roads - 2nd Quarter 2022

THEME KEYWORDS Bridge, Pipe, Culvert, bridge maintenance, SIP, SDV, Structures Management Unit, structures

Hide Topics and Keywords

Citation **>**

TITLE StructuresPoint, 3rd Quarter 2022 - NC Department of Transportation PUBLICATION DATE 2022-08-08 00:00:00

PRESENTATION FORMATS * digital map

Hide Citation 🔺

Citation Contacts

RESPONSIBLE PARTY

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Address Type physical Delivery point 4101 Capital Boulevard City Raleigh Administrative area NC Postal code 27604 Country US E-MAIL Address gishelp@ncdot.gov

HOURS OF SERVICE 8 am to 5 pm, M-F

CONTACT INSTRUCTIONS

For further information about bridge attributes, contact Cary Clemmons of the Bridge Maintenance Unit, at (919) 707-6458 or cclemmons@ncdot.gov

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Resource Details

DATASET LANGUAGES * English (UNITED STATES) DATASET CHARACTER SET utf8 - 8 bit UCS Transfer Format

SPATIAL REPRESENTATION TYPE * vector

SUPPLEMENTAL INFORMATION

*****This bridge layer contains many kinds of structures currently maintained by the Bridge Maintenance Unit (BMU) of the NCDOT. They reflect an ongoing attempt by the NCDOT GIS Unit to portray the traffic-carrying structures found in the NCDOT BMU's Bridge Database and shown in the GIS Bridge layer in as timely a manner as possible. Until such time as the GIS Unit can approximate the maintenance schedule of the BMU, the GIS layer may not accurately reflect the structures currently in service or the additions and deletions to the Bridge Inventory system which are performed on a daily basis by the BMU.*****

Recent attribute changes:

All TIER-related fields were removed for the 1st Quarter 2016 release. TIER values are no longer being utilized or maintained by the NCDOT.

Sign structures have been included in the data release for 1st Quarter 2016. These structures include Overhead, Cantilever and T-Pole signs. Points for Cantilever and T-Pole signs are snapped to the route closest to the main pole of the sign. Points for Overhead signs are snapped to the inventory direction of the route passing under the sign.

2 new fields were added for the 1st Qtr 2015 release:

- GOOGLE_LINK - this field contains a hyperlink that will spawn a Google map location centered on the selected structure. Users should select the lightning-bolt shaped "Hyperlink" tool in ArcMap in order to utilize this field. SDV users can do an "Identify" on the structure, followed by a click on this hyperlink field to create a Google map.

- MAINT_RESP - this is a new field indicating the agency with maintenance responsibility for the structure and can be used to indicate the difference between city or state maintenance for a structure. The main code indicating state maintenance is "01," while the main code for city maintenance is "04," although there are other codes for both. Please see the metadata entry for this field for a list of current enumerated codes and associated agencies.

Following the introduction of the new MAINT_RESP field, structures have been renamed to remove the "CITY" designation in the BRDG_TYP_NM field. Users can now distinguish city types by using MAINT_RESP code described above. BRDG_TYP_NM will now only contain the name of the structure type and no information concerning maintenance responsibility.

Please refer to the Attribute section of this metadata for more information on the new attributes, as well as descriptions of some of the values.

Older attribute changes:

Item names for 4 of the fields in the shapefile and derived tables have changed to match the item names found in the map services. The names changed are:

BRIDGE_NUM changed to BRDG_NBR;

TYPE changed to BRDG_TYP_NM, which will be truncated in the shapefile to BRDG_TYP_N; BSIP_BNUM changed to BSIP_BRDG_NUM, which will be truncated in the shapefile to BSIP_BRDG_; ServiceOn has been capitalized to SERVICEON.

Many fields were previously added to the bridge layer for customer use. These include: Coordinate information fields - X,Y coordinates in NAD 83 Stateplane Feet have been added, along with latitude/longitude coordinates in Geographic Decimal Degrees. Route-milepost information has also been included. Please note the milepost value is derived from the RTE_ID field - this 10-digit field is a concatenation of the 8-digit ROUTE number and the 2-digit county number and there are a small number of instances across the state where the county number may differ from the COUNTY name carried by the BMU Bridge Database. These are usually cases of structures on or very near a county line and the structure's location along a route may differ from the county assigned by the bridge database.

Many fields from the bridge database have been added to make the shapefile (downloadable from the GIS Unit's Data Distribution page) the equivalent of the bridge map service found in the Spatial Data Viewer (SDV). These include functional class designations, sufficiency ratings, and posted weight values.

Added TYPEs include PAVEMENT ON PILES. FEDERAL BRIDGE replaces "Gov't Bridge;" FERRY RAMP replaces "Ferry;" and all TYPE values are now capitalized.

The Verification field was dropped. All structure points have been compared to the latest imagery available at the time of review and visually verified except for the newest structures under construction which don't appear yet in any imagery. These structures can't be verified until the imagery and linework have been updated. The GIS Unit does NOT guarantee accurate placement of

the structure points, but does try to use all available information at the time of review to accomplish it.

RD_ANGLE and STR_ANGLE were added to the layer. RD_ANGLE is the tangent angle of the road closest to the structure point. The STR_ANGLE is the angle of the structure relative to the road at that same point. Many structure types will parallel the road (these structures can be found by selecting for "RD_ANGLE = STR_ANGLE"). Other structure types may cross the road perpendicularly (culverts, pipes, railroads, and walkways). Most of these are calculated to be 90-degrees off the RD_ANGLE value, although some may have values assigned manually during spatial reviews. The STR_ANGLE can be used to assign angled symbols for structure display on maps - be aware, however, that many symbols may need to have their default angles adjusted in their layer's Properties before the value stored in STR_ANGLE can display the symbol accurately.

* PROCESSING ENVIRONMENT Version 6.2 (Build 9200); Esri ArcGIS 10.8.1.14362

CREDITS

The bridge layer is a compilation of data originally found in the Bridge Inventory maps produced by the Mapping group of the State Road Maintenance Unit which has been supplemented with updates from the bridge database of the NCDOT's Bridge Maintenance Unit.

Hide Resource Details 🔺

Extents 🕨

EXTENT

GEOGRAPHIC EXTENT

BOUNDING RECTANGLE

EXTENT TYPE Extent used for searching

- * WEST LONGITUDE -84.402343
- * EAST LONGITUDE -75.423872
- * NORTH LATITUDE 36.614200
- * SOUTH LATITUDE 33.769569
- * EXTENT CONTAINS THE RESOURCE Yes

EXTENT IN THE ITEM'S COORDINATE SYSTEM

- * WEST LONGITUDE 412591.286460
- * EAST LONGITUDE 3050215.764481
- * SOUTH LATITUDE 48904.610063
- * NORTH LATITUDE 1042512.618249
- * EXTENT CONTAINS THE RESOURCE Yes

Hide Extents

Resource Points of Contact ►

POINT OF CONTACT

ORGANIZATION'S NAME North Carolina Department of Transportation Geographic Information Systems Unit CONTACT'S POSITION GIS Help Desk CONTACT'S ROLE originator

CONTACT INFORMATION PHONE VOICE 919.707.2165 FAX 919.707.2210

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Hide Resource Points of Contact

Resource Maintenance ►

RESOURCE MAINTENANCE UPDATE FREQUENCY **quarterly**

OTHER MAINTENANCE REQUIREMENTS

Time Period of content: 3rd Quarter 2022 (source date 03/14/22) - Bridges; 2nd Quarter 2022 - NCRoutes for route-MP references

MAINTENANCE CONTACT

ORGANIZATION'S NAME North Carolina Department of Transportation Geographic Information Systems Unit CONTACT'S POSITION GIS Help Desk CONTACT'S ROLE point of contact

CONTACT INFORMATION PHONE VOICE 919.707.2165 FAX 919.707.2210

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Hide Resource Maintenance

Resource Constraints ►

CONSTRAINTS LIMITATIONS OF USE

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Discrepancies may exist since the frequency with which the sources are updated is not the same among the different groups. Please take this into account prior to utilizing the GIS bridge layer.

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 36365718.124241434 Z ORIGIN -100000 Z SCALE 10000 M ORIGIN -100000 M SCALE 10000 XY TOLERANCE 0.003280833333333333 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_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. 1666666666666666],PARAMETER["Latitude_Of_Origin",33.75],UNIT["Foot_US",0.3048006096012192],A

UTHORITY["EPSG",2264]]

REFERENCE SYSTEM IDENTIFIER

- * VALUE 2264
- * CODESPACE EPSG
- * VERSION 6.12(9.0.0)

Hide Spatial Reference

Spatial Data Properties

VECTOR **•**

* LEVEL OF TOPOLOGY FOR THIS DATASET geometry only

GEOMETRIC OBJECTS

FEATURE CLASS NAME NCDOTStructureLocations

- * OBJECT TYPE point
- * OBJECT COUNT 22649

Hide Vector

ARCGIS FEATURE CLASS PROPERTIES FEATURE CLASS NAME NCDOTStructureLocations

- * FEATURE TYPE Simple
- * GEOMETRY TYPE Point
- * HAS TOPOLOGY FALSE
- * FEATURE COUNT 22649
- * SPATIAL INDEX FALSE
- * LINEAR REFERENCING FALSE

Hide ArcGIS Feature Class Properties ▲

Hide Spatial Data Properties

Data Quality 🕨

SCOPE OF QUALITY INFORMATION RESOURCE LEVEL attribute

Hide Scope of quality information ▲

DATA QUALITY REPORT - QUANTITATIVE ATTRIBUTE ACCURACY

EVALUATION METHOD

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

Hide Data quality report - Quantitative attribute accuracy

DATA QUALITY REPORT - CONCEPTUAL CONSISTENCY

EVALUATION METHOD

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

Hide Data quality report - Conceptual consistency

DATA QUALITY REPORT - COMPLETENESS OMISSION EVALUATION METHOD

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

The bridge layer contains many kinds of structures currently maintained by the Structures Management Unit of the NCDOT. They reflect an ongoing integration between the structures found in the GIS bridge layer and the bridge database maintained by the Structures Management Unit. As such, the GIS layer may not accurately reflect the structures currently in service or the additions and deletions to the Bridge Inventory system which are performed on a daily basis.

Hide Data quality report - Completeness omission

DATA QUALITY REPORT - ABSOLUTE EXTERNAL POSITIONAL ACCURACY DIMENSION horizontal

EVALUATION METHOD

Structures were compared for accuracy against the most current imagery and against field inspection reports where necessary. Structure points are snapped to the relevant state-maintained routes in the center of the structures where possible. In the case of intersecting, non-divided routes, the structure point is snapped to the routes' intersection point. In the case of divided highways, the structure point is snapped to the intersection of the inventory sides of the routes. Otherwise, there are no measurement, precision, spatial, or data schema standards assigned to this dataset.

Hide Data quality report - Absolute external positional accuracy

Hide Data Quality 🔺

Lineage 🕨

LINEAGE STATEMENT

x,y-coordinate values were collected from Microstation DGN's used in the layout of the Bridge Inventory Maps. These x,y-coordinates were matched to a copy of the Bridge Database supplied by the NCDOT SMU which contained all structures. Matching structures were placed by these x,ycoordinates utilizing the Add XY Data tool in ArcMap. Non-matching structures were extracted and placed using their latitude/longitude values. The two datasets were then merged into one dataset under the NAD83 Stateplane Feet projection, and a process was started to review the positional accuracy of all bridges placed via latitude/longitude and to confirm other structures as deemed necessary.

Quarterly, the GIS Unit requests a bridge database update from SMU and compares this update against the existing GIS Bridge layer. Non-matching structure records are sorted according to whether they are additions or deletions compared to the existing bridge layer. Deletions are removed to a separate layer and additions are merged into the existing layer, followed by a period of review using the latest imagery for location verification. Coordinate information (X,Y's, lat/long's and route-MP's) are updated following this verification.

Because of timing issues, the current quarter's bridge mileposts are usually based on the previous quarter's linework.

Hide Lineage 🔺

Distribution 🕨

DISTRIBUTOR ► CONTACT INFORMATION INDIVIDUAL'S NAME GIS Help Desk ORGANIZATION'S NAME NCDOT GIS Unit CONTACT'S ROLE point of contact CONTACT INFORMATION PHONE VOICE 919.707.2152 FAX 919.707.2214 ADDRESS TYPE physical DELIVERY POINT 4101 Capital Boulevard CITY Raleigh ADMINISTRATIVE AREA NC POSTAL CODE 27604 COUNTRY US E-MAIL ADDRESS gishelp@ncdot.gov

HOURS OF SERVICE 8 am to 5 pm, M-F

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Hide Contact information

Hide Distributor

DISTRIBUTION FORMAT VERSION ArcGIS 10.1 * NAME Shapefile

HARE Shapenie

TRANSFER OPTIONS

* TRANSFER SIZE 0.605

Hide Distribution \blacktriangle

Fields **>**

```
DETAILS FOR OBJECT NCDOTStructureLocations ►

* TYPE Feature Class

* Row COUNT 22649

DEFINITION

Bridges and other structures along NC highways

DEFINITION SOURCE

NCDOT Structures Management Unit

FIELD FID ►

* ALIAS FID

* DATA TYPE OID

* WIDTH 4
```

- * PRECISION 0
- * SCALE 0
- * FIELD DESCRIPTION Internal feature number.
 - Internal reactive number
- * DESCRIPTION SOURCE Esri
- * DESCRIPTION OF VALUES

Sequential unique whole numbers that are automatically generated.

Hide Field FID ▲

FIELD ROUTE ► * ALIAS ROUTE * DATA TYPE String * WIDTH 10 * PRECISION 0 * SCALE 0 FIELD DESCRIPTION 8-digit route number on which structure is located; may be empty for non-verified bridges

DESCRIPTION SOURCE NCDIT-T GIS Unit

Hide Field ROUTE ▲

FIELD BRDG_NBR

- * ALIAS BRDG_NBR
- * DATA TYPE String
- * WIDTH 8
- * PRECISION 0
- * SCALE 0
- FIELD DESCRIPTION

2-digit county number + 4-digit bridge number

DESCRIPTION SOURCE

NCDOT Structures Management Unit

Hide Field BRDG_NBR ▲

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 COUNTY ►

- * ALIAS COUNTY
- * DATA TYPE String
- * WIDTH 15
- * PRECISION 0
- * SCALE 0

FIELD DESCRIPTION County name

DESCRIPTION SOURCE NCDOT Structures Management Unit

Hide Field COUNTY ▲

FIELD F_CARRIED ►

- * ALIAS F_CARRIED
- * DATA TYPE String
- * WIDTH 50
- * PRECISION 0
- * SCALE 0

FIELD DESCRIPTION

Facility carried by the structure - highways, railroads, etc

DESCRIPTION SOURCE NCDOT Structures Management Unit

Hide Field F_CARRIED ▲

FIELD BRDG_TYP_N ►

- * ALIAS BRDG_TYP_N
- * DATA TYPE String
- * WIDTH 25
- * PRECISION 0
- * SCALE 0
- FIELD DESCRIPTION

Bridge structure type

DESCRIPTION SOURCE NCDOT Structures Management Unit

Hide Field BRDG_TYP_N ▲

FIELD FTR_INTRSC

- * ALIAS FTR_INTRSC
- * DATA TYPE String
- * WIDTH 50
- * PRECISION 0
- * SCALE 0

FIELD DESCRIPTION

Feature intersected by the structure - streams, river, highways, etc

DESCRIPTION SOURCE

NCDOT Structures Management Unit

Hide Field FTR_INTRSC

FIELD DIVISION ►

- * ALIAS DIVISION
- * DATA TYPE String
- * WIDTH 2
- * PRECISION 0
- * SCALE 0

FIELD DESCRIPTION

Division number

DESCRIPTION SOURCE NCDOT Structures Management Unit

FIELD STRUCT_DEF

- * ALIAS STRUCT_DEF
- * DATA TYPE String
- * WIDTH 5
- * PRECISION 0
- * SCALE 0

FIELD DESCRIPTION

Structural deficiency

DESCRIPTION SOURCE NCDOT Structures Management Unit

Hide Field STRUCT_DEF ▲

FIELD FUNC_OBSOL ►

- * ALIAS FUNC_OBSOL
- * DATA TYPE String
- * WIDTH 5
- * PRECISION 0
- * SCALE 0

FIELD DESCRIPTION Functional obsolescence

DESCRIPTION SOURCE NCDOT Structures Management Unit

Hide Field FUNC_OBSOL ▲

FIELD SUFFRATING ►

- * ALIAS SUFFRATING
- * DATA TYPE Double
- * WIDTH 19
- * PRECISION 0
- * SCALE 0
- FIELD DESCRIPTION

Sufficiency rating

DESCRIPTION SOURCE NCDOT Structures Management Unit

Hide Field SUFFRATING ▲

FIELD NHS

- * ALIAS NHS
- * DATA TYPE Double
- * WIDTH 19
- * PRECISION 0
- * SCALE 0

FIELD DESCRIPTION National Highway System

DESCRIPTION SOURCE

NCDOT Structures Management Unit

LIST OF VALUES VALUE 0 DESCRIPTION Inventory Route is not on the NHS ENUMERATED DOMAIN VALUE DEFINITION SOURCE NCDOT Structures Management Unit

VALUE 1 DESCRIPTION Inventory Route is on the NHS ENUMERATED DOMAIN VALUE DEFINITION SOURCE NCDOT Structures Management Unit

Hide Field NHS ▲

FIELD DEF_NETWRK ►

* ALIAS DEF_NETWRK

- * DATA TYPE String
- * WIDTH 3
- * PRECISION 0
- * SCALE 0

FIELD DESCRIPTION

Defense network

DESCRIPTION SOURCE NCDOT Structures Management Unit

LIST OF VALUES

VALUE 0

DESCRIPTION The inventory route is not a STRAHNET route ENUMERATED DOMAIN VALUE DEFINITION SOURCE NCDOT Structures Management Unit

VALUE 1

DESCRIPTION The inventory route is on an Interstate STRAHNET route ENUMERATED DOMAIN VALUE DEFINITION SOURCE NCDOT Structures Management Unit

VALUE 2 DESCRIPTION The inventory route is on a Non-Interstate STRAHNET route ENUMERATED DOMAIN VALUE DEFINITION SOURCE NCDOT Structures Management Unit

VALUE 3 DESCRIPTION The inventory route is on a STRAHNET connector route ENUMERATED DOMAIN VALUE DEFINITION SOURCE NCDOT Structures Management Unit

Hide Field DEF_NETWRK ▲

FIELD DETOUR_LEN ►

- * ALIAS DETOUR LEN
- * DATA TYPE String
- * WIDTH 5
- * PRECISION 0
- * SCALE 0
- FIELD DESCRIPTION

Detour length

DESCRIPTION SOURCE NCDOT Structures Management Unit

Hide Field DETOUR_LEN ▲

FIELD FUNC_CLASS ►

- * ALIAS FUNC_CLASS
- * DATA TYPE String
- * WIDTH 60
- * PRECISION 0
- * SCALE 0

FIELD DESCRIPTION Functional class

DESCRIPTION SOURCE NCDOT Structures Management Unit

Hide Field FUNC_CLASS ▲

FIELD BSIP_BRDG_ ►

- * ALIAS BSIP_BRDG_
- * DATA TYPE String
- * WIDTH 8
- * PRECISION 0
- * SCALE 0
- FIELD DESCRIPTION

3-digit county number + 4-digit bridge number

DESCRIPTION SOURCE NCDIT-T GIS Unit

Hide Field BSIP_BRDG_ ▲

FIELD POSTED_SV >

- * ALIAS POSTED_SV
- * DATA TYPE Integer
- * WIDTH 10
- * PRECISION 10
- * SCALE 0

FIELD DESCRIPTION

Posted weight limit, single vehicle

DESCRIPTION SOURCE

NCDOT Structures Management Unit

Hide Field POSTED_SV

FIELD NATTRUCNET

- * ALIAS NATTRUCNET
- * DATA TYPE String
- * WIDTH 3
- * PRECISION 0
- * SCALE 0
- FIELD DESCRIPTION

National truck network

DESCRIPTION SOURCE NCDOT Structures Management Unit LIST OF VALUES

VALUE 0

DESCRIPTION The inventory route is not part of the national network for trucks ENUMERATED DOMAIN VALUE DEFINITION SOURCE NCDOT Structures Management Unit

VALUE 1 DESCRIPTION The inventory route is part of national network for trucks ENUMERATED DOMAIN VALUE DEFINITION SOURCE NCDOT Structures Management Unit

Hide Field NATTRUCNET

FIELD STRTYPMAIN ►

- * ALIAS STRTYPMAIN
- * DATA TYPE String
- * WIDTH 5
- * PRECISION 0
- * SCALE 0

FIELD DESCRIPTION Structure type main

DESCRIPTION SOURCE

NCDOT Structures Management Unit

Hide Field STRTYPMAIN ▲

FIELD SUPERSTRUC

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

FIELD DESCRIPTION

Superstructure

DESCRIPTION SOURCE

NCDOT Structures Management Unit

Hide Field SUPERSTRUC

FIELD X_COORD ►

- * ALIAS X_COORD
- * DATA TYPE Double
- * WIDTH 19
- * PRECISION 0

* SCALE 0

FIELD DESCRIPTION

Calculated X coordinate in NAD83 Stateplane Feet

DESCRIPTION SOURCE NCDIT-T GIS Unit

Hide Field X_COORD ▲

FIELD Y_COORD * ALIAS Y_COORD * DATA TYPE Double * WIDTH 19 * PRECISION 0 * SCALE 0 FIELD DESCRIPTION Calculated Y coordinate in NAD83 Stateplane Feet DESCRIPTION SOURCE NCDIT-T GIS Unit Hide Field Y_COORD ▲ FIELD LONG_DD * ALIAS LONG_DD * DATA TYPE Double * WIDTH 19 * PRECISION 0 * SCALE 0 FIELD DESCRIPTION Calculated Longitude value in Geographic decimal degrees **DESCRIPTION SOURCE** NCDIT-T GIS Unit Hide Field LONG_DD ▲ FIELD SUBSTRUCTU * ALIAS SUBSTRUCTU * DATA TYPE String * WIDTH 100 * PRECISION 0 * SCALE 0 FIELD DESCRIPTION Substructure DESCRIPTION SOURCE

NCDOT Structures Management Unit

Hide Field SUBSTRUCTU

FIELD LAT_DD

- * ALIAS LAT_DD
- * DATA TYPE Double
- * WIDTH 19
- * PRECISION 0
- * SCALE 0
- FIELD DESCRIPTION

Calculated Latitude value in Geographic decimal degrees

DESCRIPTION SOURCE NCDIT-T GIS Unit

Hide Field LAT_DD ▲

FIELD ServiceOn ► * ALIAS SERVICEON * DATA TYPE String * WIDTH 3 * PRECISION 0 * SCALE 0 FIELD DESCRIPTION The type of service offered by the bridge, used in determining traffic-carrying structures (codes 1, 4, 5, 6, 7, 8 carry traffic) DESCRIPTION SOURCE NCDOT Structures Management Unit LIST OF VALUES VALUE 1 DESCRIPTION Highway ENUMERATED DOMAIN VALUE DEFINITION SOURCE NCDOT Structures Management Unit VALUE 2 DESCRIPTION Railroad ENUMERATED DOMAIN VALUE DEFINITION SOURCE NCDOT Structures Management Unit VALUE 3 **DESCRIPTION** Pedestrian-bicycle ENUMERATED DOMAIN VALUE DEFINITION SOURCE NCDOT Structures Management Unit VALUE 4 **DESCRIPTION** Highway-railroad ENUMERATED DOMAIN VALUE DEFINITION SOURCE NCDOT Structures Management Unit VALUE 5 **DESCRIPTION** Highway-pedestrian ENUMERATED DOMAIN VALUE DEFINITION SOURCE NCDOT Structures Management Unit VALUE 6 DESCRIPTION Overpass structure at an interchange or second level of a multilevel interchange ENUMERATED DOMAIN VALUE DEFINITION SOURCE NCDOT Structures Management Unit VALUE 7 **DESCRIPTION** Third level (Interchange) ENUMERATED DOMAIN VALUE DEFINITION SOURCE NCDOT Structures Management Unit VALUE 8 **DESCRIPTION** Fourth level (Interchange) ENUMERATED DOMAIN VALUE DEFINITION SOURCE NCDOT Structures Management Unit VALUE 9 **DESCRIPTION** Building or plaza ENUMERATED DOMAIN VALUE DEFINITION SOURCE NCDOT Structures Management Unit VALUE 0 DESCRIPTION Other ENUMERATED DOMAIN VALUE DEFINITION SOURCE NCDOT Structures Management Unit Hide Field ServiceOn ▲

FIELD RTE_ID ►

* DATA TYPE String * WIDTH 12 * PRECISION 0 * SCALE 0 FIELD DESCRIPTION 11-digit route & county number, used for routing purposes **DESCRIPTION SOURCE** NCDIT-T GIS Unit Hide Field RTE_ID ▲ FIELD RD ANGLE * ALIAS RD_ANGLE * DATA TYPE Double * WIDTH 19 * PRECISION 0 * SCALE 0 FIELD DESCRIPTION Calculated angle of the road at the point closest to the structure (the tangent angle). DESCRIPTION SOURCE NCDIT-T GIS Unit Hide Field RD ANGLE ▲ FIELD POSTED_TTS * ALIAS POSTED_TTS * DATA TYPE Integer * WIDTH 10 * PRECISION 10 * SCALE 0 FIELD DESCRIPTION Posted weight limit, tractor trailer, semi-truck DESCRIPTION SOURCE NCDOT Structures Management Unit Hide Field POSTED_TTS ▲ FIELD STR_ANGLE ► * ALIAS STR ANGLE * DATA TYPE Double * WIDTH 19 * PRECISION 0 * SCALE 0 FIELD DESCRIPTION

Calculated angle of the structure relative to the road; many types will parallel the road (RD_ANGLE = STR_ANGLE), others may cross the road perpendicularly (culverts, pipes, railroads, and walkways). Most of the perpendicular structures are calculated to be 90-degrees off the RD_ANGLE value.

DESCRIPTION SOURCE NCDIT-T GIS Unit

* ALIAS RTE ID

Hide Field STR_ANGLE ▲

FIELD MP ► * ALIAS MP * DATA TYPE Double * WIDTH 19 * PRECISION 0 * SCALE 0 DESCRIPTION SOURCE NCDIT-T GIS Unit FIELD DESCRIPTION Milepost of the structure along the indicated ROUTE Hide Field MP

FIELD GOOGLE LIN ►

- * ALIAS GOOGLE_LIN
- * DATA TYPE String
- * WIDTH 150
- * PRECISION 0
- * SCALE 0
- FIELD DESCRIPTION

Hyperlink to Google Maps showing structure selected; calculated from the LAT_DD and LONG_DD fields

DESCRIPTION SOURCE

NCDIT-T GIS Unit

Hide Field GOOGLE_LIN ▲

FIELD MAINT_RESP

- * ALIAS MAINT_RESP
- * DATA TYPE String
- * WIDTH 2
- * PRECISION 0
- * SCALE 0

FIELD DESCRIPTION

The actual name(s) of the agency(s) responsible for the maintenance of the structure. Values enumerated below are for the currently-existing codes in the database, as of 1st Qtr 2015

DESCRIPTION SOURCE

NCDOT Structures Management Unit

LIST OF VALUES

VALUE 01 DESCRIPTION State Highway Agency ENUMERATED DOMAIN VALUE DEFINITION SOURCE NCDOT Structures Management Unit

VALUE 04

DESCRIPTION City or Municipal Highway Agency ENUMERATED DOMAIN VALUE DEFINITION SOURCE NCDOT Structures Management Unit

VALUE 11

DESCRIPTION State Park, Forest, or Reservation Agency ENUMERATED DOMAIN VALUE DEFINITION SOURCE NCDOT Structures Management Unit

VALUE 21 **DESCRIPTION** Other State Agencies ENUMERATED DOMAIN VALUE DEFINITION SOURCE NCDOT Structures Management Unit VALUE 25 **DESCRIPTION** Other Local Agencies ENUMERATED DOMAIN VALUE DEFINITION SOURCE NCDOT Structures Management Unit VALUE 26 **DESCRIPTION** Private (other than railroad) ENUMERATED DOMAIN VALUE DEFINITION SOURCE NCDOT Structures Management Unit VALUE 27 DESCRIPTION Railroad ENUMERATED DOMAIN VALUE DEFINITION SOURCE NCDOT Structures Management Unit VALUE 31 **DESCRIPTION** State Toll Authority ENUMERATED DOMAIN VALUE DEFINITION SOURCE NCDOT Structures Management Unit VALUE 60 DESCRIPTION Other Federal Agencies (not listed below) ENUMERATED DOMAIN VALUE DEFINITION SOURCE NCDOT Structures Management Unit VALUE 66 **DESCRIPTION** National Park Service ENUMERATED DOMAIN VALUE DEFINITION SOURCE NCDOT Structures Management Unit VALUE 70 DESCRIPTION Corps of Engineers (Civil) ENUMERATED DOMAIN VALUE DEFINITION SOURCE NCDOT Structures Management Unit Hide Field MAINT_RESP ▲ FIELD SERVICEUND * ALIAS SERVICEUND * DATA TYPE String * WIDTH 3 * PRECISION 0 * SCALE 0 FIELD DESCRIPTION The type of service offered by the route passing under the bridge (codes 5, 6, 7, 8, and 9 indicate a waterway under the bridge) DESCRIPTION SOURCE NCDOT Structures Management Unit LIST OF VALUES VALUE 1

DESCRIPTION Highway, with or without pedestrian ENUMERATED DOMAIN VALUE DEFINITION SOURCE NCDOT Structures Management Unit

VALUE 2 DESCRIPTION Railroad ENUMERATED DOMAIN VALUE DEFINITION SOURCE NCDOT Structures Management Unit

VALUE 3 DESCRIPTION Pedestrian-bicycle ENUMERATED DOMAIN VALUE DEFINITION SOURCE NCDOT Structures Management Unit

VALUE 4 **DESCRIPTION** Highway-railroad ENUMERATED DOMAIN VALUE DEFINITION SOURCE NCDOT Structures Management Unit VALUE 5 **DESCRIPTION** Waterway ENUMERATED DOMAIN VALUE DEFINITION SOURCE NCDOT Structures Management Unit VALUE 6 **DESCRIPTION** Highway-waterway ENUMERATED DOMAIN VALUE DEFINITION SOURCE NCDOT Structures Management Unit VALUE 7 DESCRIPTION Railroad-waterway ENUMERATED DOMAIN VALUE DEFINITION SOURCE NCDOT Structures Management Unit VALUE 8 DESCRIPTION Highway-waterway-railroad ENUMERATED DOMAIN VALUE DEFINITION SOURCE NCDOT Structures Management Unit VALUE 9 DESCRIPTION Relief for waterway ENUMERATED DOMAIN VALUE DEFINITION SOURCE NCDOT Structures Management Unit VALUE 0 DESCRIPTION Other ENUMERATED DOMAIN VALUE DEFINITION SOURCE NCDOT Structures Management Unit Hide Field SERVICEUND ▲

Hide Details for object NCDOTStructureLocations

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 2022-08-04

ARCGIS METADATA PROPERTIES METADATA FORMAT ArcGIS 1.0 STANDARD OR PROFILE USED TO EDIT METADATA ISO19139 METADATA STYLE ISO 19139 Metadata Implementation Specification

CREATED IN ARCGIS FOR THE ITEM 2022-08-04 12:43:04 LAST MODIFIED IN ARCGIS FOR THE ITEM 2022-08-04 13:03:24

AUTOMATIC UPDATES HAVE BEEN PERFORMED Yes LAST UPDATE 2022-08-04 13:03:24

Hide Metadata Details

Metadata Contacts 🕨

METADATA CONTACT

ORGANIZATION'S NAME North Carolina Department of Transportation Geographic Information Systems Unit CONTACT'S POSITION GIS Help Desk CONTACT'S ROLE point of contact

CONTACT INFORMATION PHONE VOICE 919.707.2165 FAX 919.707.2210

ADDRESS

TYPE physical DELIVERY POINT 4101 Capital Boulevard CITY Raleigh ADMINISTRATIVE AREA NC POSTAL CODE 27604 COUNTRY US E-MAIL ADDRESS gishelp@ncdot.gov

HOURS OF SERVICE 8 am to 5 pm, M-F

CONTACT INSTRUCTIONS

For further information about bridge attributes, contact Cary Clemmons of the Bridge Maintenance Unit, at (919) 707-6458 or cclemmons@ncdot.gov

Hide Contact information

METADATA CONTACT

ORGANIZATION'S NAME North Carolina Department of Transportation Geographic Information Systems Unit CONTACT'S POSITION GIS Help Desk CONTACT'S ROLE resource provider

CONTACT INFORMATION PHONE VOICE 919.707.2165 FAX 919.707.2210

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Hide Contact information **A**

ORGANIZATION'S NAME North Carolina Department of Transportation Geographic Information Systems Unit CONTACT'S POSITION GIS Help Desk CONTACT'S ROLE originator

CONTACT INFORMATION PHONE

> VOICE 919.707.2165 FAX 919.707.2210

ADDRESS

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Hide Contact information

Hide Metadata Contacts

Metadata Maintenance

MAINTENANCE UPDATE FREQUENCY quarterly

MAINTENANCE CONTACT

ORGANIZATION'S NAME North Carolina Department of Transportation Geographic Information Systems Unit CONTACT'S POSITION GIS Help Desk CONTACT'S ROLE point of contact

CONTACT INFORMATION PHONE VOICE 919.707.2165 FAX 919.707.2210

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Hide Contact information **A**

Hide Metadata Maintenance 🔺

Metadata Constraints **>**

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LEGAL CONSTRAINTS

OTHER CONSTRAINTS

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Hide Metadata Constraints 🔺

Thumbnail and Enclosures

THUMBNAIL THUMBNAIL TYPE JPG

Hide Thumbnail and Enclosures