

# NC Fiber Asset Management System: Marker Balls, Continuous Capture – NC Department of Transportation

## SDE Geodatabase Feature Class



### Tags

Point, North Carolina, NCDOT, Transportation, Right of Way, Highway, Communication, Intelligent Transportation System, Broadband, Network, Fiber. Fiber Assets, FAMS, Location, Marker Balls.

### Summary

This feature class contains point representation of electronic marker balls for underground infrastructure. This feature class represents some components of NCDOT's Intelligent Transportation System (ITS) infrastructure data that support NCDOT's Fiber Asset Management System (FAMS). Attributes containing NCDOT Project ID, Marker Type, and Installation Date are included. All fiber and devices tracked in an Intelligent Transportation System (ITS) eventually terminate at a switch housed in an ITS Cabinet.

The FAMS allows for the on-going capture of NCDOT's Intelligent ITS fiber and related ITS infrastructure assets. Data included in FAMS includes fiber optic cables and related intelligent transportation system infrastructure components. This dataset is limited to ITS components that either terminate in a cabinet or fiber infrastructure operations facility. These assets are NCDOT-owned and located within the NCDOT right of way. Although all assets are owned by NCDOT, some assets may be maintained by third-party partners through legal agreements with NCDOT. The data entered are the latest available to NCDOT Traffic Systems Operations, but data currency may vary across the system.

### Description

Electronic marker balls store accurate geographic information for underground infrastructure. Marker balls are useful for those working in the field when they need to precisely identify where underground infrastructure is located. Understanding markerball information for Facility Asset Management System infrastructure will allow staff to communicate about locations of infrastructure internally and externally more easily. NCDOT Traffic Systems Operations currently owns and maintains hundreds of miles of fiber and related communication infrastructure across the state of North Carolina that provide connectivity for NCDOT's Intelligent Transportation System along the state-maintained roadway network. The goal of the NCDOT Intelligent Transportation System is to improve traffic conditions, minimize delays, and increase safety for all commuters in the state. This transportation infrastructure can be roughly grouped into eight categories:

- Signal systems
- Traveler information, including the Traffic Information Management System and 511
- Incident management assistance patrols
- Transportation management centers
- Traffic management and information devices
- Commercial vehicle operations
- Transit management

In an effort to accurately and reliably track the asset infrastructure that is part of the Intelligent Transportation System, NCDOT has developed a Fiber Asset Management System. The Fiber Asset Management System is a centralized, enterprise geodatabase and service-based application used to store, track, and manage NCDOT-maintained fiber assets in a spatial data format, helping NCDOT in:

- ITS asset maintenance
- Management of fiber network connectivity details for maintenance and design purposes
- Increasing 811 accuracy and reliability
- ITS network infrastructure planning

The GIS Unit of the North Carolina Department of Information Technology-Transportation (NCDIT-T) has developed an enterprise geodatabase and system to host the spatially-based fiber assets data where it can be populated, managed, tracked, and disseminated to meet the FAMS project needs. Data includes features such as cabinets, fiber housing, fiber connections, junction boxes, poles, communication splice points, ethernet cable, electronic location markers, and buildings with NCDOT infrastructure equipment. The GIS capability of FAMS enables management and dissemination of fiber infrastructure spatial data.

### Credits

The North Carolina Department of Transportation, Division of Highways, Traffic Systems Operations Unit.

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.

All fiber asset data is the sole property of NCDOT and any public purpose use is subject to approval and release by NCDOT. No data, whole or in part, shall be released, published, or shared without prior written approval by NCDOT. No information concerning the data shall be divulged to anyone outside the proper officials at NCDOT. All fiber asset data is strictly confidential to NCDOT and its approved contractors.

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. The data should not be used in place of field survey or data collection efforts that are normally performed by licensed professionals and it should not replace any data collection efforts that are typically required as a part of detailed design and construction efforts.

### Extent

There is no extent for this item.

### Scale Range

Maximum (zoomed in) 1:5,000

Minimum (zoomed out) 1:50,000

### Topics and Keywords ►

Themes or categories of the resource Location, Transportation, Utilities & Communication

Content type Geographic Services

Export to FGDC CSDGM XML format as Resource Description No

Theme keywords Point, North Carolina, NCDOT, Transportation, Right of Way, Highway, Communication, Intelligent Transportation System, Broadband, Network, Fiber. Fiber Assets, FAMS, Location, Marker Balls.

#### Thesaurus ►

Title User

Creation date 2022-05-31 00:00:00

Publication date 2022-05-31 00:00:00

Place keywords North Carolina

#### Thesaurus ►

Title User

Creation date 2022-05-31 00:00:00  
Publication date 2022-05-31 00:00:00

## Citation ►

Title NC Fiber Asset Management System: Marker Balls, Continuous Capture – NC Department of Transportation

Alternate titles Marker Balls

Creation date 2022-05-31 00:00:00

Publication date 2022-05-31 00:00:00

Presentation formats digital map

FGDC geospatial presentation format vector digital data

## Citation Contacts ►

Responsible party - originator

Individual's name Stephen Wardle

Organization's name North Carolina Department of Transportation, Traffic Systems Operations Unit

Contact's position ITS Operation Engineer

### Contact information ►

Phone

Voice 919-825-2621

Address

Type physical

Delivery point 1636 Gold Star Drive

City Raleigh

Administrative area NC

Postal code 27607

Country US

e-mail address [swardle@ncdot.gov](mailto:swardle@ncdot.gov)

Hours of service

9:00am - 5:00pm Monday – Friday

### Contact instructions

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

Responsible party - resource provider

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

Contact's position GIS Data and Services Consultant

### Contact information ►

Address

Type physical

Delivery point 4101 Capital Boulevard

City Raleigh

Administrative area NC

Postal code 27604

Country US

e-mail address [gishelp@ncdot.gov](mailto:gishelp@ncdot.gov)

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9:00am - 5:00pm Monday - Friday

### Contact instructions

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Responsible party - point of contact

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

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**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 18363) ; Esri ArcGIS 12.9.0.32739

**Credits**

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**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

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**Resource Maintenance ►**

Resource maintenance

Update frequency continual

Scope of the updates dataset

Other maintenance requirements

The North Carolina Department of Transportation, Division of Highways, Traffic Systems Operations Unit 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 - point of contact

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

Contact's position GIS Data and Services Consultant

#### Contact information ►

Address

Type physical

Delivery point 4101 Capital Boulevard

City Raleigh

Administrative area NC

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Country US

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### Resource Constraints ►

Constraints

Limitations of use

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Legal constraints

Limitations of use

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Access constraints restricted

Use constraints restricted

Security constraints

Classification confidential

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 3048.0060960121928

ZOrigin -100000

ZScale 10000

MOrigin -100000

MScale 10000

XYTolerance 0.0032808333333333331

ZTolerance 0.001

MTolerance 0.001

HighPrecision true

LatestWKID 2264

WKT

```
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",2000000.002616666],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

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 MarkerBalls

Object type point

Object count 0

### ArcGIS Feature Class Properties ▶

Feature class name MarkerBalls

Feature type Simple

Geometry type Point

Has topology FALSE

Feature count 0

Spatial index TRUE

Linear referencing FALSE

## 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 2022-05-31 00:00:00

Publication date 2022-05-31 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 2022-05-31 00:00:00

Publication date 2022-05-31 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 2022-05-31 00:00:00

Publication date 2022-05-31 00:00:00

## Lineage ▶

Lineage statement

This dataset was originally created by the North Carolina Department of Transportation, Traffic Systems Operations Unit, to provide a geographic representation of marker balls in North Carolina. The data contained within this dataset is entered to the enterprise database environment through the Fiber Asset Management System. Geospatial services which support the Fiber Asset Management System (FAMS) are utilized by the NCDOT's Traffic Systems Operations Unit.

## Process step ▶

When the process occurred 2022-05-27 00:00:00

Description

The fiber asset enterprise geodatabase data is published as a series of feature services for access in the Fiber Asset Management System, maintained by the NCDIT-Transportation GIS Unit.

Process contact - point of contact

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

Contact's position GIS Data and Services Consultant

## Contact information ▶

Address

Type physical

Delivery point 4101 Capital Boulevard

City Raleigh

Administrative area NC

Postal code 27604

Country US

e-mail address [gishelp@ncdot.gov](mailto: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 Right of Way Geodatabase. If it is an immediate need, please call the contact number or indicate as such in the subject line in an email.

## Process step ▶

When the process occurred 2022-05-31 00:00:00

Description

The fiber asset data is originally populated by NCDOT's Traffic Systems Operations Unit.

Process contact - originator

Individual's name Stephen Wardle

Organization's name North Carolina Department of Transportation, Traffic Systems Operations Unit

Contact's position ITS Operation Engineer



#### Contact information ►

##### Phone

Voice 919-825-2621

##### Address

Type physical

Delivery point 1636 Gold Star Drive

City Raleigh

Administrative area NC

Postal code 27607

Country US

e-mail address [swardle@ncdot.gov](mailto:swardle@ncdot.gov)

##### Hours of service

9:00am - 5:00pm Monday – Friday

#### Contact instructions

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#### Process step ►

When the process occurred 2022-06-01 00:00:00

##### Description

The Fiber Asset Management System data can be captured for publication and reporting services if needed.

#### Process contact - resource provider

Individual's name Stephen Wardle

Organization's name North Carolina Department of Transportation, Traffic Systems Operations Unit

Contact's position ITS Operation Engineer

#### Contact information ►

##### Phone

Voice 919-825-2621

##### Address

Type physical

Delivery point 1636 Gold Star Drive

City Raleigh

Administrative area NC

Postal code 27607

Country US

e-mail address [swardle@ncdot.gov](mailto:swardle@ncdot.gov)

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## Distribution ►

#### Distributor ►

##### Contact information - point of contact

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

Contact's position GIS Data and Services Consultant

#### Contact information ►

##### Address

Type physical

Delivery point 4101 Capital Boulevard

City Raleigh

Administrative area NC

Postal code 27604

Country US  
e-mail address [gishelp@ncdot.gov](mailto:gishelp@ncdot.gov)  
Hours of service  
9:00am - 5:00pm Monday - Friday

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#### Distribution format

Name SDE Geodatabase Feature Class  
Version 10.9.x

## Fields ►

### Details for object MarkerBalls ►

Type Feature Class

Row count 0

Definition

Marker Balls

Definition source

North Carolina Department of Traffic Systems Operations Unit

### Field OBJECTID ►

Alias OBJECTID

Data type OID

Width 4

Precision 0

Scale 0

Field description

Internal feature number.

Description source

Esri

Description of values

Sequential unique whole numbers that are automatically generated.

### Field Shape ►

Alias SHAPE

Data type Geometry

Width 0

Precision 0

Scale 0

Field description

Feature geometry.

Description source

Esri

Description of values

Coordinates defining the features.

### Field GlobalID ►

Alias Global ID

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 Traffic Systems Operations Unit

#### Description of values

Values vary.

#### Field MarkerID ►

Alias Marker ID  
Data type String  
Width 25  
Precision 0  
Scale 0

#### Description source

NCDOT Traffic Systems Operations Unit

#### Field description

Marker ball ID (from manufacturer).

#### Description of values

Values vary.

#### Field MarkerType ►

Alias Marker Ball Type  
Data type String  
Width 50  
Precision 0  
Scale 0

#### Description source

NCDOT Traffic Systems Operations Unit

#### Field description

Identifies what type of asset the marker ball is associated.

#### List of values

Value Conduit Coupler

Description The marker ball identifies a conduit coupler.

Enumerated domain value definition source NCDOT Traffic Systems Operations Unit

Value Junction Box

Description The marker ball identifies a junction box.

Enumerated domain value definition source NCDOT Traffic Systems Operations Unit

Value Other

Description The marker ball identifies some other asset.

Enumerated domain value definition source NCDOT Traffic Systems Operations Unit

Value Unknown

Description It is not known what type of asset is associated with the marker ball.

Enumerated domain value definition source NCDOT Traffic Systems Operations Unit

**Field InstallDate ►**

Alias Date Installed  
Data type Date  
Width 8  
Precision 0  
Scale 0

Description source  
NCDOT Traffic Systems Operations Unit

Field description  
Date the marker ball was installed.

Description of values  
Dates vary.

**Field ProjectID ►**

Alias Project ID  
Data type String  
Width 50  
Precision 0  
Scale 0

Field description  
Identifies what NCDOT Project the marker balls were installed under (if available).

Description source  
NCDOT Traffic Systems Operations Unit

Description of values  
Values vary.

**Field Comments ►**

Alias Comments  
Data type String  
Width 255  
Precision 0  
Scale 0

Field description  
Additional comments.

Description source  
NCDOT Traffic Systems Operations Unit

Description of values  
Text.

**Field created\_user ►**

Alias Created User  
Data type String  
Width 255  
Precision 0  
Scale 0

Field description  
Name of authorized user who created/added a feature to the feature class.

Description source  
NCDOT Traffic Systems Operations Unit

Description of values  
Text

Field created\_date ►  
Alias Created Date  
Data type Date  
Width 8  
Precision 0  
Scale 0

Description source  
NCDOT Traffic Systems Operations Unit

Field description  
Date and time the authorized user created/added the feature to the feature class.

Description of values  
Dates vary.

Field last\_edited\_user ►  
Alias Last Edited User  
Data type String  
Width 255  
Precision 0  
Scale 0

Field description  
Name of authorized user who last modified a feature or attribute value in the feature class.

Description source  
NCDOT Traffic Systems Operations Unit

Description of values  
Text.

Field last\_edited\_date ►  
Alias Last Edited Date  
Data type Date  
Width 8  
Precision 0  
Scale 0

Field description  
Date and time the authorized user last modified a feature or attribute value in the feature class.

Description source  
NCDOT Traffic Systems Operations Unit

Description of values  
Dates vary.

## 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 2022-05-17

ArcGIS metadata properties

Metadata format ArcGIS 1.0

Standard or profile used to edit metadata ISO19139

Created in ArcGIS for the item 2022-04-01 16:12:19

Last modified in ArcGIS for the item 2022-05-17 85:03:90

Automatic updates

Have been performed Yes

Last update 2022-05-16 10:21:17

## Metadata Contacts ►

Metadata contact - point of contact

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

Contact's position GIS Data and Services Consultant

### Contact information ►

Address

Type physical

Delivery point 4101 Capital Boulevard

City Raleigh

Administrative area NC

Postal code 27604

Country US

e-mail address [gishelp@ncdot.gov](mailto:gishelp@ncdot.gov)

Hours of service

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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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Type physical

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City Raleigh

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## Metadata Constraints ►

### Constraints

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### Security constraints

Classification confidential

Classification system None

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## Thumbnail and Enclosures ►

### Thumbnail

Thumbnail type

Image file