

NC Value Management (Points), November 2025 - NC Department of Transportation

Geodatabase Feature Class



Tags Value Engineering and Management, Value Management, NHS Routes, NHS Category, National Highway System, Interstate, MAP-21, Congressional High Priority Corridors, STRAHNET, Intermodal, STIP, lines, points, Construction cost, buffer, Bike/Ped, EAU, Transportation, NCDOT, Environment, Location, North Carolina, ATLAS, North Carolina

Summary

This dataset was originally created in October 2021 and updated in October 2025 as part of the Project ATLAS initiative at NCDOT to support the Value Management Office embedded under the NCDOT Construction Unit with project delivery in the development phase.

The Value Management points layer was created to be used by the Value Management Office and other project delivery stakeholders to screen and identify point projects that meet the threshold for required value management assessments. The requirements for such a layer was Draft or Final STIP point projects that intersect with a NHS road and have an estimated construction cost of more than \$20 million.

The STIP layer depicts NCDOT's 2020-2029 Transportation Improvement Program (STIP) Projects. The NHS layer is a network of nationally significant highways approved by Congress in the National Highway System Designation Act of 1995.

Description

The Value Management points layer is a statewide point layer depicting STIP project points that intersect a NHS roadway throughout the state of North Carolina and have a STIP construction cost estimate of more than \$20 million. This layer is to assist project scoping professionals and project managers in identifying which projects need to be coordinated and scoped with the Value Management Office. Any questions about specific projects that would benefit from value management assessments or if a specific project meets the threshold, contact valuemanagementunit@ncdot.gov.

Datasets developed under Project ATLAS do not replace any Value Management Office field work for future projects and may not be used as a replacement for site visits / field surveys by licensed professionals and hence should be used only as a supporting platform for decision making. Use of this dataset for project scoping or screening is merely pre-decisional.

Credits

The Value Management Office within NCDOT was tasked to create this dataset. The STIP Unit of NCDOT is responsible for the development of the NHS layer and the STIP layer.

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.

Datasets developed under Project ATLAS do not replace any field work for future projects and may not be used as a replacement for site visits / field surveys by licensed professionals and hence should be used only as a supporting platform for decision making. Use of this dataset for project scoping or screening is merely pre-decisional.

Extent

West -83.055588

East -75.703227

North 36.435434

South 33.897684

Scale Range

Maximum (zoomed in) 1:5,000

Minimum (zoomed out) 1:625,000

Topics and Keywords

Themes or categories of the resource Oceans, Boundaries, Location, Transportation, Environment

Content type Downloadable Data

Theme keywords Value Engineering and Management, Value Management, NHS Routes, NHS Category, National Highway System, Interstate, MAP-21, Congressional High Priority Corridors, STRAHNET, Intermodal, STIP, lines, points, Construction cost, buffer, Bike/Ped, EAU, Transportation, NCDOT, Environment, Location, North Carolina, ATLAS

Thesaurus

Title User

Creation date 2025-10-28 00:00:00

Publication date 2025-11-14 00:00:00

Place keywords North Carolina

Thesaurus

Title User

Creation date 2025-10-28 00:00:00

Publication date 2025-11-14 00:00:00

Citation

Title NC Value Management (Points), November 2025 - NC Department of Transportation

Creation date 2025-10-28 00:00:00

Publication date 2025-11-14 00:00:00

Presentation formats digital map

FGDC geospatial presentation format vector digital data

Citation Contacts

Responsible party - resource provider

Organization's name North Carolina Department of Transportation - EAU Mitigation and Modeling Unit

Contact's position Environmental Program Consultant

Contact information

Phone

Voice 919-707-6136

Address

Type physical

Delivery point Century Center Building B, 1020 Birch Ridge Drive

City Raleigh

Administrative area NC

Postal code 27610

Country US

e-mail address ATLAS@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 ATLAS Data Search Tool, ATLAS Screening Tool or ATLAS Workbench. If it is an immediate need, please call the contact number or indicate as such in the subject line in an email.

Responsible party - originator

Organization's name North Carolina Department of Transportation - EAU Mitigation and Modeling Unit

Contact's position Environmental Program Consultant

Contact information

Phone

Voice 919-707-6136

Address

Type physical

Delivery point Century Center Building B, 1020 Birch Ridge Drive

City Raleigh

Administrative area NC

Postal code 27610

Country US

e-mail address ATLAS@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 ATLAS Data Search Tool, ATLAS Screening Tool or ATLAS Workbench. If it is an immediate need, please call the contact number or indicate as such in the subject line in an email.

Responsible party - point of contact

Organization's name North Carolina Department of Transportation - EAU Mitigation and Modeling Unit

Contact's position Environmental Program Consultant

Contact information

Phone

Voice 919-707-6136

Address

Type physical

Delivery point Century Center Building B, 1020 Birch Ridge Drive

City Raleigh

Administrative area NC

Postal code 27610

Country US

e-mail address ATLAS@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 ATLAS Data Search Tool, ATLAS Screening Tool or ATLAS Workbench. If it is an immediate need, please call the contact number or indicate as such in the subject line in an email.

Resource Details

Dataset languages English (UNITED STATES)

Dataset character set utf8 - 8 bit UCS Transfer Format

Status completed

Spatial representation type vector

Processing environment Version 6.2 (Build 9200) ; Esri ArcGIS 10.8.1.14362

Credits

The Value Management Office within NCDOT was tasked to create this dataset. The STIP Unit of NCDOT is responsible for the development of the NHS layer and the STIP layer.

Extents

Extent

Description

Data collection will continue year round.

Geographic extent

Bounding rectangle

West longitude -83.047076

East longitude -75.703229

South latitude 33.898123

North latitude 36.435434

Extent contains the resource Yes

Temporal extent

Beginning date 2021-10-29 00:00:00

Ending date 2021-10-29 00:00:00

Extent

Geographic extent

Bounding rectangle

Extent type Extent used for searching

West longitude -83.055588

East longitude -75.703227

North latitude 36.435434

South latitude 33.897684

Extent contains the resource Yes

Extent in the item's coordinate system

westBL 806171.080336

eastBL 2970275.958810

southBL 77414.033359

northBL 977421.517461

exTypeCode Yes

Resource Points of Contact

Point of contact - originator

Organization's name North Carolina Department of Transportation - EAU Mitigation and Modeling Unit

Contact's position Environmental Program Consultant

Contact information

Phone

Voice 919-707-6136

Address

Delivery point Century Center Building B, 1020 Birch Ridge Drive

City Raleigh

Administrative area NC

Postal code 27610

Country US

e-mail address ATLAS@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 ATLAS Data Search Tool, ATLAS Screening Tool or ATLAS Workbench. If it is an immediate need, please call the contact number or indicate as such in the subject line in an email.

Resource Maintenance

Resource maintenance

Update frequency as needed

Scope of the updates dataset

Other maintenance requirements

This layer is to be automatically updated when there is an update to the STIP layer.

Maintenance contact - originator

Organization's name North Carolina Department of Transportation - EAU Mitigation and Modeling Unit

Contact's position Environmental Program Consultant

Contact information

Phone

Voice 919-707-6136

Address

Type physical

Delivery point Century Center Building B, 1020 Birch Ridge Drive

City Raleigh

Administrative area NC

Postal code 27610

Country US

e-mail address ATLAS@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 ATLAS Data Search Tool, ATLAS Screening Tool or ATLAS Workbench. If it is an immediate need, please call the contact number or indicate as such in the subject line in an email.

Resource Constraints

Legal constraints

Limitations of use

The North Carolina Department of Transportation shall not be held liable for any errors in this data. This includes errors of omission, commission, errors concerning the content of the data, and relative and positional accuracy of the data. This data cannot be construed to be a legal document. Primary sources from which this data was compiled must be consulted for verification of information contained in this data.

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.

Constraints

Limitations of use

The North Carolina Department of Transportation shall not be held liable for any errors in this data. This includes errors of omission, commission, errors concerning the content of the data, and relative and positional accuracy of the data. This data cannot be construed to be a legal document. Primary sources from which this data was compiled must be consulted for verification of information contained in this data.

Datasets developed under Project ATLAS do not replace any field work for future projects and may not be used as a replacement for site visits / field surveys by licensed professionals and hence should be used only as a supporting platform for decision making. Use of this dataset for project scoping or screening is merely pre-decisional.

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 0
ZScale 1
MOrigin 0
MScale 1
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["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 GdbGisuPubC.ATLAS.VMPoint

Object type point

Object count 294

ArcGIS Feature Class Properties

Feature class name GdbGisuPubC.ATLAS.VMPoint

Feature type Simple

Geometry type Point

Has topology FALSE

Feature count 294

Spatial index TRUE

Linear referencing FALSE

Data Quality

Scope of quality information

Resource level dataset

Data quality report - Completeness omission

Data quality measure reference

Measure description

After processing, 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 2021-10-29 00:00:00

Publication date 2021-10-29 00:00:00

Data quality report - Conceptual consistency

Data quality measure reference

Measure description

The dataset is converted to file geodatabase (FGDB) format using tools in ArcGIS. The geometry is checked for invalid geometries.

Conformance test results

Test passed Yes

Result explanation

Pass

Product specification

Title NCDOT Geospatial Data Specifications

Creation date 2021-10-29 00:00:00

Publication date 2021-10-29 00:00:00

Data quality report - Quantitative attribute accuracy

Data quality measure reference

Measure description

Geometry checks were conducted using ESRI's Data Reviewer tool.

Conformance test results

Test passed Yes

Result explanation

Pass

Product specification

Title NCDOT Geospatial Data Specifications

Creation date 2021-10-29 00:00:00

Publication date 2021-10-29 00:00:00

Lineage

Lineage statement

This dataset was developed by intersecting the NHS Routes layer with STIP points.

Source for NHS Layer: https://gis11.services.ncdot.gov/arcgis/rest/services/NCDOT_NHSQtr/MapServer/0

Source for STIP layer: https://gis11.services.ncdot.gov/arcgis/rest/services/NCDOT_STIP/MapServer

The NHS layer was buffered by 100 feet. The STIP layer was filtered to only show projects > \$20 million. The buffered NHS layer was intersected with the STIP Layer. Fields were adjusted as needed by the Value Management Office.

Process step

Description

Geodatabase was forwarded on to the GIS Unit for publishing as part of data for project ATLAS.

Process contact - originator

Organization's name North Carolina Department of Transportation - EAU Mitigation and Modeling

Unit

Contact's position Environmental Program Consultant

Contact information

Phone

Voice 919-707-6136

Address

Type physical

Delivery point Century Center Building B, 1020 Birch Ridge Drive

City Raleigh

Administrative area NC

Postal code 27610

Country US

e-mail address ATLAS@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 ATLAS Data Search Tool, ATLAS Screening Tool or ATLAS Workbench. If it is an immediate need, please call the contact number or indicate as such in the subject line in an email.

Process step

Description

Point data was reviewed in ESRI's Data Reviewer tool to verify geometry.

Process contact - originator

Organization's name North Carolina Department of Transportation - EAU Mitigation and Modeling
Unit

Contact's position Environmental Program Consultant

Contact information

Phone

Voice 919-707-6136

Address

Type physical

Delivery point Century Center Building B, 1020 Birch Ridge Drive

City Raleigh

Administrative area NC

Postal code 27610

Country US

e-mail address ATLAS@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 ATLAS Data Search Tool, ATLAS Screening Tool or ATLAS Workbench. If it is an immediate need, please call the contact number or indicate as such in the subject line in an email.

Process step

Description

To create this layer, the buffered NHS layer was intersected with a filtered STIP layer.

Process contact - originator

Organization's name North Carolina Department of Transportation - EAU Mitigation and Modeling Unit

Contact's position Environmental Program Consultant

Contact information

Phone

Voice 919-707-6136

Address

Type physical

Delivery point Century Center Building B, 1020 Birch Ridge Drive

City Raleigh

Administrative area NC

Postal code 27610

Country US

e-mail address ATLAS@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 ATLAS Data Search Tool, ATLAS Screening Tool or ATLAS Workbench. If it is an immediate need, please call the contact number or indicate as such in the subject line in an email.

Distribution

Distributor

Contact information - distributor

Organization's name North Carolina Department of Transportation - EAU Mitigation and Modeling Unit

Contact's position Environmental Program Consultant

Contact information

Phone

Voice 919-707-6136

Address

Type physical

Delivery point Century Center Building B, 1020 Birch Ridge Drive

City Raleigh
Administrative area NC
Postal code 27610
Country US
e-mail address ATLAS@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 ATLAS Data Search Tool, ATLAS Screening Tool or ATLAS Workbench. If it is an immediate need, please call the contact number or indicate as such in the subject line in an email.

Distribution format

Version 10.5
Name SDE Feature Class

Fields

Details for object GdbGisuPubC.ATLAS.VMPoint

Type Feature Class

Row count 294

Definition

Layer that identifies project points that meet the threshold for required value management assessments.

Definition source

NCDOT

Field OBJECTID

Alias OBJECTID

Data type OID

Width 4

Precision 10

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 4
Precision 0
Scale 0
Field description
Feature geometry.

Description source
Esri

Description of values
Coordinates defining the features.

Field NHSCat

Alias NHSCat
Data type String
Width 37
Precision 0
Scale 0
Field description
NHS Category

Description source
NCDOT

List of values

Value	Interstate	
Description	Interstate	
Enumerated domain value definition source	NHS	
Value	STRAHNET Route	
Description	STRAHNET Route	
Enumerated domain value definition source	NHS	
Value	STRAHNET Connector	
Description	STRAHNET Connector	
Enumerated domain value definition source	NHS	
Value	Other NHS	
Description	Other NHS	
Enumerated domain value definition source	NHS	
Value	Intermodal Connector	
Description	Intermodal Connector	
Enumerated domain value definition source	NHS	
Value	MAP-21 NHS	
Description	MAP-21 NHS	
Enumerated domain value definition source	NHS	
Value	Congressional High Priority Corridors	
Description	Congressional High Priority Corridors	

Enumerated domain value definition source NHS
Value Unbuilt NHS Routes
Description Unbuilt NHS Routes
Enumerated domain value definition source NHS

Field TIP

Alias TIP
Data type String
Width 10
Precision 0
Scale 0
Field description
STIP Project Identifier

Description source
NCDOT

Field Descr

Alias Descr
Data type String
Width 500
Precision 0
Scale 0
Field description
Brief description of project

Description source
NCDOT

Field Comment

Alias Comment
Data type String
Width 255
Precision 0
Scale 0
Field description
Additional Notes and Comments from the STIP Unit

Description source
NCDOT

Field PrCost

Alias PrCost
Data type Double
Width 8

Precision 38

Scale 8

Field description

Cost of project remaining. For projects with Prior Years funds already spent, this sum in not included.

Description source

NCDOT

Field SPOTID

Alias SPOTID

Data type String

Width 500

Precision 0

Scale 0

Field description

Prioritization project identifier

Description source

NCDOT

Field Route

Alias Route

Data type String

Width 255

Precision 0

Scale 0

Field description

Name of Route facility project is located on

Description source

NCDOT

Field Category

Alias Category

Data type String

Width 255

Precision 0

Scale 0

Field description

STI Category project was funded under

Description source

NCDOT

List of values

Value	DIV	
Description	DIV	
Enumerated domain value definition source	NCDOT	
Value	REG	
Description	REG	
Enumerated domain value definition source	NCDOT	
Value	SW	
Description	SW	
Enumerated domain value definition source	NCDOT	

Field Mode

Alias	Mode
Data type	String
Width	255
Precision	0
Scale	0
Field description	Mode of transportation for project

Description source
NCDOT

List of values

Value	BICYCLE AND PEDESTRIAN	
Description	BICYCLE AND PEDESTRIAN	
Enumerated domain value definition source	NCDOT	
Value	HIGHWAY	
Description	HIGHWAY	
Enumerated domain value definition source	NCDOT	
Value	HIGHWAY SAFETY	
Description	HIGHWAY SAFETY	
Enumerated domain value definition source	NCDOT	
Value	PUBLIC TRANSIT	
Description	PUBLIC TRANSIT	
Enumerated domain value definition source	NCDOT	

Field ROWYear

Alias	ROWYear
Data type	String
Width	255
Precision	0
Scale	0
Field description	First year funding is authorized for Right of Way acquisition

Description source

NCDOT

Field ConstrYr

Alias ConstrYr
Data type String
Width 255
Precision 0
Scale 0

Field description

First year funding is authorized for construction.

Description source

NCDOT

Field Symbology

Alias Symbology
Data type String
Width 100
Precision 0
Scale 0

Field description

Road symbology to be used for mapping

Description source

NCDOT

List of values

Value	Division Highway	
Description	Division Highway	
Enumerated domain value definition source		NCDOT
Value	Regional Highway	
Description	Regional Highway	
Enumerated domain value definition source		NCDOT
Value	Statewide Bridge	
Description	Statewide Bridge	
Enumerated domain value definition source		NCDOT
Value	Statewide Highway	
Description	Statewide Highway	
Enumerated domain value definition source		NCDOT
Value	Statewide Rail	
Description	Statewide Rail	
Enumerated domain value definition source		NCDOT

Field Counties

Alias Counties
Data type String

Width 255

Precision 0

Scale 0

Field description

Counties that are stakeholders to the project

Description source

NCDOT

Field Divisions

Alias Divisions

Data type String

Width 255

Precision 0

Scale 0

Field description

NCDOT Divisions that are stakeholders to the project

Description source

NCDOT

Field GlobalID

Alias GlobalID

Data type GlobalID

Width 38

Precision 0

Scale 0

Field MPOsRPOs

Alias MPOsRPOs

Data type String

Width 255

Precision 0

Scale 0

Field description

Planning organizations that are stakeholders to the project

Description source

NCDOT

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 2026-03-06

ArcGIS metadata properties

Metadata format ArcGIS 1.0

Metadata style ISO 19139 Metadata Implementation Specification

Standard or profile used to edit metadata ItemDescription

Created in ArcGIS for the item 2026-08-26 13:51:41

Last modified in ArcGIS for the item 2026-03-06 11:10:07

Automatic updates

Have been performed Yes

Last update 2026-03-06 11:10:00

Metadata Contacts

Metadata contact - point of contact

Organization's name North Carolina Department of Transportation - EAU Mitigation and Modeling Unit

Contact's position Environmental Program Consultant

Contact information

Phone

Voice 919-707-6136

Address

Type physical

Delivery point Century Center Building B, 1020 Birch Ridge Drive

City Raleigh

Administrative area NC

Postal code 27610

Country US

e-mail address ATLAS@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 ATLAS Data Search Tool, ATLAS Screening Tool or ATLAS Workbench. If it is an immediate need, please call the contact number or indicate as such in the subject line in an email.

Metadata Maintenance

Maintenance

Update frequency as needed

Maintenance contact - originator

Organization's name North Carolina Department of Transportation - EAU Mitigation and Modeling

Unit

Contact's position Environmental Program Consultant

Contact information

Phone

Voice 919-707-6136

Address

Type physical

Delivery point Century Center Building B, 1020 Birch Ridge Drive

City Raleigh

Administrative area NC

Postal code 27610

Country US

e-mail address ATLAS@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 ATLAS Data Search Tool, ATLAS Screening Tool or ATLAS Workbench. If it is an immediate need, please call the contact number or indicate as such in the subject line in an email.

Metadata Constraints

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 metadata. 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. Datasets developed under Project ATLAS do not replace any field work for future projects and may not be used as a replacement for site visits / field surveys by licensed professionals and hence should be used only as a supporting platform for decision making. Use of this dataset for project scoping or screening is merely pre-decisional.

Constraints

Limitations of use

The North Carolina Department of Transportation shall not be held liable for any errors in this metadata. 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. Datasets developed under Project ATLAS do not replace any field work for future projects and may not be used as a replacement for site visits / field surveys by licensed professionals and hence should be used only as a supporting platform for decision making. Use of this dataset for project scoping or screening is merely pre-decisional.

Thumbnail and Enclosures

Thumbnail

Thumbnail type

Image file