

NC Active STIP Polygons, NC Department of Transportation

File Geodatabase Feature Class



Tags

NCDOT STIP Projects, Polygon, North Carolina, NCDOT, Statewide Transportation Improvement Program, Transportation Planning, Transportation, Planning Division, Location, North Carolina

Summary

This feature class is included in the STIP File Geodatabase download provided by the STIP Manager software. It contains polygon representation of projects included in NCDOT's Active Statewide Transportation Improvement Program (STIP) along with descriptive attributes and schedules. The projects present in this data are determined by a selection made in STIP Manager by the user.

Description

The STIP is a multi-year capital improvement document which denotes the scheduling and funding of construction projects across the state over a minimum 4 year time period as required by Federal law. North Carolina's STIP covers a 10 year period, with the first six years referred to as the delivery STIP and the latter four years as the developmental STIP. Per 23 CFR 450.216 & 23 U.S. Code § 135 STIP's must also:

- Be submitted to Federal Highway Administration (FHWA) & Federal Transit Administration (FTA) for approval at least every 4 years
- Be fiscally constrained by year
- Include all capital and non-capital projects using Title 23 USC or Title 49 USC funds, other than certain safety, planning, and research funds
- Include metropolitan TIPs (Transportation Improvement Projects) from Metropolitan Planning Organizations
- Provide public comment opportunity on STIP document
- And include the following information:
 - Project description and termini
 - Estimated total cost (NCDOT includes Utility, R/W, and Construction costs)
 - Federal funds to be obligated
 - Responsible agency (such as municipality)

The STIP contains funding information and schedules for transportation modes and programs including: Highways, Aviation, Bicycle and Pedestrian, Ferry, Public Transportation, Rail, Governor's Highway Safety and statewide related programs.

The transportation program in the STIP is organized in an Excel file that can be sorted and filtered as needed by the reader. The information included for each project includes details on the location of the project: County, NCDOT Highway Division, Route, Description, and Planning Organization. Projects also list the STI category they are funded from, i.e., Statewide Mobility, Regional Impact, or Division Needs. The phases of projects (such as Right of Way (R), Utility relocation (U), and Construction (C)) are listed by Fiscal Year along with their costs and anticipated funding sources. For those projects with their first phase of work beginning in the second half of the STIP (years 2031-2035), they are listed as “Funded for Preliminary Engineering Only.” The Department will begin Preliminary Engineering activities (environmental documentation and design work) at the appropriate time, but the project will need to compete for funding in a future round of Prioritization and therefore the funding years for phases are unknown at this time.

Projects are also listed by the STI category they are funded from, i.e., by Statewide Mobility, Regional Impact, or Division Needs. The phases of projects (such as Right of Way (R), Utility relocation (U), and Construction (C)) are listed by Fiscal Year along with their costs and anticipated funding sources.

All projects require extensive planning, environmental impact and design studies. The location and exact type of improvements are subject to refinement and modification during the planning and design phases.

North Carolina’s STIP is updated every two years and developed in concert with federal and state revenue forecasts, North Carolina Department of Transportation’s (NCDOT’s) Strategic Prioritization process, preconstruction and project development timetables, and in adherence with federal and state laws. North Carolina state law requires Board of Transportation (BOT) action to approve the STIP.

For complete information, [view this online NCDOT Current STIP document](#).

Credits

NC Department of Transportation, State Transportation Improvement Program (STIP) Unit.

Support and maintenance of the spatial database where this data resides is handled by the North Carolina Department of Transportation.

Support and maintenance of the enterprise spatial database where this data resides is handled by NCDOT's 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.

Extent

West: -83.214142, East: -76.447165
North: 36.378251, South: 33.882947

Scale Range

Maximum (zoomed in) 1:5,000
Minimum (zoomed out) 1:625,000

Topics and Keywords

- Themes or categories of the resource: boundaries, economy, location, planning/cadastre, society, structure, transportation
- Content type: Downloadable Data
- Export to FGDC CSDGM XML format as Resource Description: No
- Place keywords: North Carolina

Thesaurus

- Title: User
- Creation date: 2025-10-06
- Publication date: 2025-10-06
- Theme keywords: NCDOT STIP Projects, Polygon, North Carolina, NCDOT, Statewide Transportation Improvement Program, Transportation Planning, Transportation, Planning Division, Location

Citation

- Title: NC Active STIP Polygons, NC Department of Transportation
- Alternate title: Active STIP Polygons
- Creation date: 2025-10-06
- Publication date: 2025-10-06
- Presentation format: digital map
- FGDC geospatial presentation format: vector digital data

Citation Contacts

Responsible Party

- Organization's name: North Carolina Department of Transportation, Office of Strategic Planning and Programming
- Contact's position: State Transportation Improvement Program Data Manager
- Contact's role: Originator

Contact Information

- Address Type: physical
- Delivery point: 1 South Wilmington Street
- City: Raleigh
- Administrative area: NC
- Postal code: 27601
- Country: US
- e-mail address: stipunit@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

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

- Contact's role: Resource Provider

Contact Information

- 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: gishelp@ncdot.gov

Hours of Service

9:00am - 5:00pm, Monday – Friday

Contact Instructions

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

Responsible Party

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

Contact Information

- Address Type: physical
- Delivery point: Century Center Building B, 1020 Birch Ridge Drive
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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

NC Department of Transportation, State Transportation Improvement Program (STIP) Unit.

Support and maintenance of the spatial database where this data resides is handled by the North Carolina Department of Transportation.

Support and maintenance of the enterprise spatial database where this data resides is handled by NCDIT's Transportation GIS Unit.

Extents

Geographic Extent

Bounding Rectangle

- West longitude: -83.214142
- East longitude: -76.447165
- North latitude: 36.378251
- South latitude: 33.882947

Resource Points of Contact

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

Contact Information

- Address Type: physical
- Delivery point: Century Center Building B, 1020 Birch Ridge Drive
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Hours of Service

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Contact Instructions

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

Resource Maintenance

Update frequency: as needed

Scope of the updates: dataset

Other Maintenance Requirements

NC Department of Transportation, State Transportation Improvement Program (STIP) Unit.

Support and maintenance of the spatial database where this data resides is handled by the North Carolina Department of Transportation.

Support and maintenance of the enterprise spatial database where this data resides is handled by NCDIT's Transportation GIS Unit.

Maintenance Contact

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

Contact's position: GIS Data and Services Consultant

Contact's role: Point of Contact

Contact Information

- 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: gishelp@ncdot.gov

Hours of Service

9:00am - 5:00pm Monday – Friday

Contact Instructions

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Resource Constraints

Constraints - Limitations of Use

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Legal Constraints - Limitations of Use

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Security Constraints – Limitations of Use

Classification: Unclassified

Classification system: None

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Spatial Reference

ArcGIS Coordinate System

- Type: Projected
- Geographic coordinate reference: GCS_WGS_1984
- Projection: WGS_1984_Web_Mercator_Auxiliary_Sphere

Coordinate Reference Details

- Projected coordinate system
- Well-known identifier: 102100

- X origin: -20037700
- Y origin: -30241100
- XY scale: 148923141.92838538
- Z origin: -100000
- Z scale: 10000
- M origin: -100000
- M scale: 10000
- XY tolerance: 0.001
- Z tolerance: 0.001
- M tolerance: 0.001
- High precision: true
- Latest well-known identifier: 3857

Reference System Identifier

- Value: 3857
- Codespace: EPSG
- Version: 8.8 (9.3.1.2)

Spatial Data Properties

Vector.

Level of topology for this dataset: geometry only

Geometric Objects

- Feature class name: StipPolygons
- Object type: composite
- Object count: 148

ArcGIS Feature Class Properties

- Feature class name: StipPolygons
- Feature type: Simple
- Geometry type: Polygon
- Has topology: FALSE
- Feature count: [value]
- Spatial index: TRUE
- Linear referencing: FALSE

Data Quality

Scope of quality information.

Resource level: dataset

Data Quality Report - Completeness Commission

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: 2025-10-06
- Publication date: 2025-10-06

Data Quality Report - Conceptual Consistency

Measure Description

This dataset is converted to file geodatabase (FGDB) format using tools in ArcGIS. The geometry is checked, and if needed repaired.

Conformance Test Results

- Test passed: Yes
- Result explanation: Pass

Product Specification

- Title: NCDOT Geospatial Data Specifications
- Creation date: 2025-10-06
- Publication date: 2025-10-06

Data Quality Report - Quantitative Attribute Accuracy

Measure Description

The source data was checked using standard review procedures. Attributes were checked by using visual inspection as well as automated verification routines. 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 2025-10-06
Publication date 2025-10-06

Lineage

Lineage Statement

This dataset was originally created by the NC Department of Transportation, State Transportation Improvement Program (STIP) Unit to provide a geographic representation of the active polygon STIPs. The data is provided to the GIS Unit for enterprise publication purposes.

Process Step

When the process occurred: 2025-10-01

Description: The NC Department of Transportation, State Transportation Improvement Program Unit compiles the geospatial representations of polygon STIP projects and makes it available online for download as GIS data. The data contains attributes describing the location, general scope of work, earliest fiscal year of funding for Right of Way and Construction phases, and amount of project cost estimate remaining on the project.

Process Contact

- Organization's name: North Carolina Department of Transportation, Office of Strategic Planning and Programming
- Contact's position: State Transportation Improvement Program Data Manager
- Contact's role: Originator

Contact Information

- Address Type: physical
- Delivery point: 1 South Wilmington Street
- City: Raleigh
- Administrative area: NC
- Postal code: 27601
- Country: US
- e-mail address: stipunit@ncdot.gov

Hours of Service

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

Contact Instructions

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Source Data

- Relationship to the process step: produced
- Source medium name: online link
- Title: NC Active STIP Polygons
- Creation date: 2025-10-01
- Publication date: 2025-10-01
- Resource location: online
- Location: [Link to data download.](#)
- Function performed: download

Process Step

When the process occurred: 2025-10-06

Description: The dataset is provided to the North Carolina Department of Information Technology -Transportation, GIS Unit for enterprise publication.

Process Contact

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

Contact Information

- 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: gishelp@ncdot.gov

Hours of Service

9:00am - 5:00pm, Monday – Friday

Contact Instructions

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

Distribution

Distributor

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

Contact Information

- 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: gishelp@ncdot.gov

Hours of Service

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Distribution Format

- Name: File Geodatabase Feature Class
- Version: ArcGIS Pro 3.4.3

Fields

Details for Object StipPolygons

- Type: Feature Class
- Row count: [number]
- Definition: NC Active STIP Polygons
- Definition source: North Carolina Department of Transportation

Field STIPItemID

- Alias: STIPItemID
- Data type: String
- Width: 1024
- Precision: 0
- Scale: 0

Field Description

STIP item identifier.

Description source: NCDOT

Description of Values: Values vary.

Field STIPItemPublicID

- Alias: STIPItemPublicID
- Data type: String
- Width: 1024
- Precision: 0
- Scale: 0

Field Description

Sequential number prefixed with the abbreviation for the transportation mode and/or the funding program of the project. Suffixes denote 'break' segments of related projects.

Description source: NCDOT

Description of values: Values vary.

Field CountyName

- Alias: CountyName
- Data type: String
- Width: 1024
- Precision: 0
- Scale: 0

Field Description

NC County name where the project is located.

Description source: NCDOT

Description of values: Values vary.

Field ModeName

- Alias: ModeName
- Data type: String
- Width: 1024
- Precision: 0
- Scale: 0

Field Description

The mode of transportation that the project primarily benefits.

Possible Values: Bicycle and Pedestrian, Bridge, Congestion Mitigation, Highway, Highway Safety, Public Transit, Rail.

Description source: NCDOT

Description of values: Text.

Field RouteFacility

- Alias: RouteFacility
- Data type: String
- Width: 1024
- Precision: 0
- Scale: 0

Field Description

Route numbers and/or common name of the route(s) affected by the project. Some projects may contain facility names or more general location names.

Description source: NCDOT

Description of values: Text.

Field LocationDescription

- Alias: LocationDescription
- Data type: String
- Width: 1024
- Precision: 0
- Scale: 0

Field Description

Detailed project location description.

Description source: NCDOT

Description of values: Text.

Field ROWStartYear

Alias: ROWStartYear

Data type: String

Width: 1024

Precision: 0

Scale: 0

Field Description

Fiscal year when right of way acquisition is scheduled to begin.

Description source: NCDOT

Description of values: Year values vary.

Field CONStartYear

- Alias: CONStartYear
- Data type: String
- Width: 1024
- Precision: 0
- Scale: 0

Field Description

Fiscal year the construction contract is scheduled to be let.

Description source: NCDOT

Description of values: Year values vary.

Field ProjectStatusName

- Alias: ProjectStatusName
- Data type: String
- Width: 1024
- Precision: 0
- Scale: 0

Field Description

Project phase status such as Funded for Preliminary Engineering Only, Planning/Preliminary Engineering, Right of Way, Utility Relocation, Construction, Completed, etc.

Description source: NCDOT

Description of values: Text.

Field DivisionName

- Alias: DivisionName
- Data type: String
- Width: 1024
- Precision: 0
- Scale: 0

Field Description

NCDOT Division number(s) where the project is located.

Description source: NCDOT

Range of values: Minimum value = 1 , Maximum value = 14.

Field MPORPOName

- Alias: MPORPOName
- Data type: String
- Width: 1024
- Precision: 0
- Scale: 0

Field Description

MPO(s) and RPO(s) where the project is located.

Description source: NCDOT

Description of values: North Carolina MPOs and RPOs.

Field STICategoryName

- Alias: STICategoryName
- Data type: String
- Width: 1024
- Precision: 0
- Scale: 0

Field Description

The Strategic Transportation Investments (STI) Category that the project is funded under. Possible Values: DIV = Division EX = Exempt REG = Regional SW = Statewide TRN = Transitional.

Description source: NCDOT

Description of values: Text.

Field TotalCost

- Alias: TotalCost
- Data type: String
- Width: 1024
- Precision: 0
- Scale: 0

Field Description

Total remaining estimated cost of the project for all outstanding phases or work.

Description source: NCDOT

Description of values: Values vary.

Field Shape

- Alias: Shape
- Data type: Geometry
- Width: 0
- Precision: 0
- Scale: 0

Field Description

Feature geometry.

Description source: Esri

Description of values: Coordinates defining the features.

Field Shape_Length

- Alias: Shape_Length
- Data type: Double
- Width: 8
- Precision: 0
- Scale: 0

Field Description

Length of feature in internal units.

Description source: Esri

Description of values: Positive real numbers that are automatically generated.

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.

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: 2025-10-07

ArcGIS Metadata Properties

- Metadata format: ArcGIS 1.0
- Standard or profile used to edit metadata: ISO19139
- Created in ArcGIS for the item: 2024-12-06
- Last modified in ArcGIS for the item: 2025-10-07
- Automatic updates have been performed: Yes
- Last update: 2025-10-07

Metadata Contacts

Metadata Contact

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

Contact Information

- 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: gishelp@ncdot.gov

Hours of Service

9:00am - 5:00pm, Monday – Friday

Contact Instructions

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Metadata Maintenance

Update frequency: as needed.

Scope of the updates: dataset.

Maintenance Contact

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

Contact Information

- Address Type: physical
- Delivery point: Century Center Building B, 1020 Birch Ridge Drive
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Security Constraints – Limitations of Use

Classification unclassified

Classification system None

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