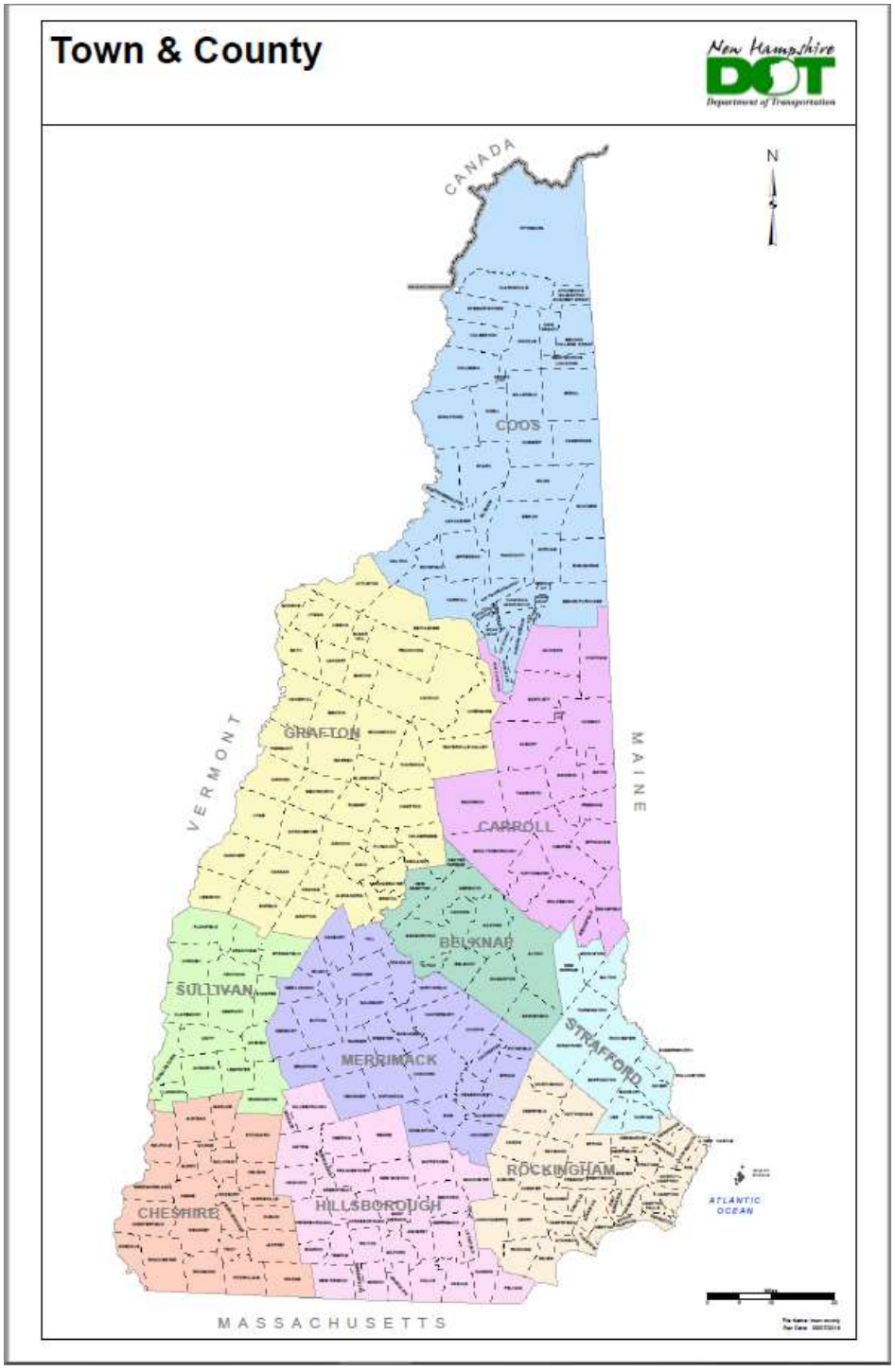
NHDOT GIS DATA CATALOG

Map Metadata Guide



GIS DATA CATALOG
MAP METADATA GUIDE

New Hampshire Department of Transportation
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Geographical Information Systems (GIS) Division
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Concord, NH 03301
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TABLE OF CONTENTS

Purpose 7

State map Template 8

Roads By Function 9

Route System 9

Route system-Legislative Class Miles 10

Federal Aid Eligible (with Mileages) 11

Functional System 12

National Highway System (NHS) 13

National Highway System (NHS) (With Mileages) 14

Tiers 1 and 2 (With Mileages) 15

Tiers 3 and 4 (With Mileages) 16

Roads by Condition (GACIT) 17

State Red List Bridges on Tiers 1 and 2 17

State Red List Bridges on Tiers 3 and 4 18

Municipal Red List Bridges 19

2016 Pavement Conditions 20

DOT Operations 21

Bridge Maintenance Crews 21

Highway Maintenance Districts Offices 22

District 1 State Roads 23

District 2 State Roads 24

District 3 State Roads 25

District 4 State Roads 26

District 5 State Roads 27

District 6 State Roads 28

Turnpikes State Roads 29

Public Transportation 30
Statewide Transit Services 30
State tourist regions 31
Air and RaiL 32
Airports 32
Railroads 33
County State Roads 34
Belknap County State Roads 34
Carroll County State Roads 35
Cheshire County State Roads 36
Coos County State Roads 37
Grafton County State Roads 38
Hillsborough County State Roads 39
Merrimack County State Roads 40
Rockingham County State Roads 41
Strafford County State Roads 42
Sullivan County State Roads 43
Statewide Boundaries 44
Town and County (Black and White) 44
town and COUNTY 45
Congressional Districts 46
Senate Districts 47
Executive Council Districts 48
Regional Planning Commissions 49
State Trooper Coverage 50
Urban Population 51
Update Process 52

PURPOSE

The purpose of this guide is to give specific information about the maps in the NH Department of Transportation GIS Data Catalog.

The GIS section (Planning and Community Assistance Bureau) manages the Data Catalog web site and production of standard printed and online maps.

In 2018, a reorganization of the Data Catalog was completed with new standards adopted for web site content and layout, data links and standard maps, as well as a process for updates.

In this guide, each map will have its own page, describing details along with a picture and metadata used to create the map.

For GIS Staff, it can be used can also be used yearly as a guide to update maps as well as a reference point for custom map requests, where combinations of similar layers may be required.

Credits

Project Admin: Glenn Davison, Supervisor of System Planning, Civil Engineer VI,

Project Lead: Lisa Chamberlain, GIS Analyst, Cartographer, Word and Contribute Editor

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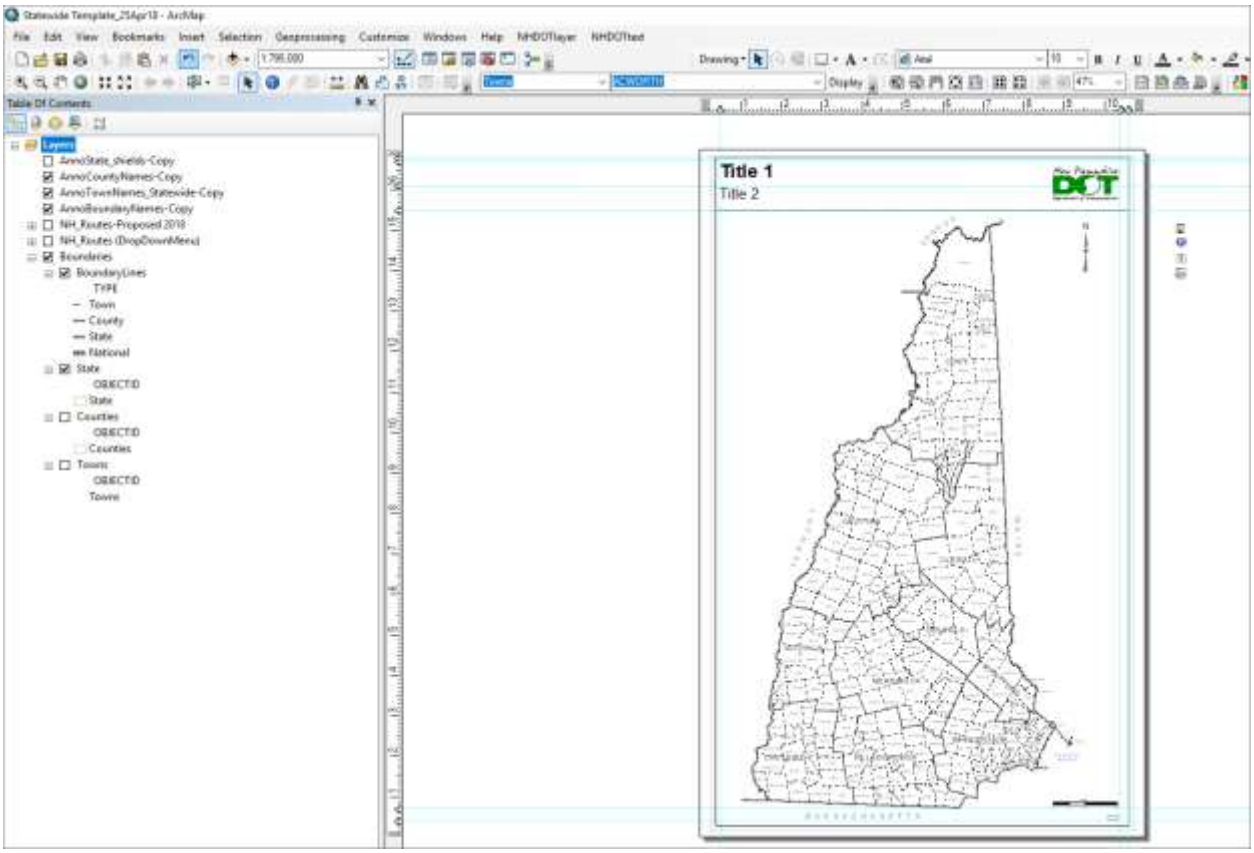
Joseph Blair, GIS Civil Engineer IV, HPMS Coordinator
Casey Shingleton, GIS Civil Engineer II
Ali Skinner, GIS Civil Engineer III

STATE MAP TEMPLATE

The Bureau of Planning GIS section met into the spring of 2018 to review various map attributes in order to standardize map production going forward for the DOT.

The group agreed on the following attributes and got agreement from AMPS Office.

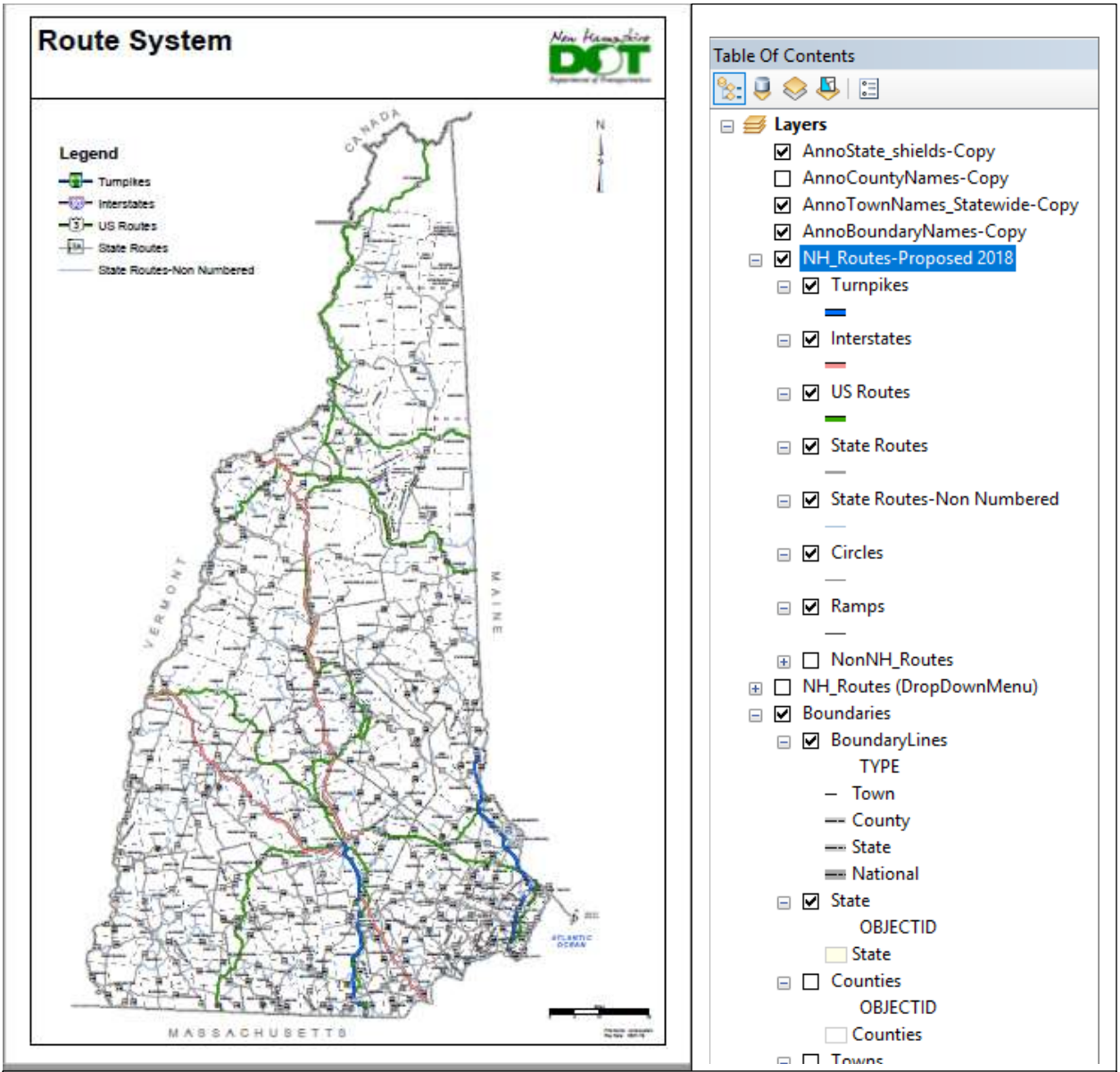
Map Attribute	Location and details
Box (Line)	To delineate where Title, N Arrow and DOT logo are housed
Map Title	Aerial, Font34, Bold Upper Left Corner
Optional 2nd line Title	Aerial, Font 26, Regular, Under Map Title
Legend	Under Title section
North Arrow	ESRI 5 North Arrow under line under DOT logo
DOT Logo	Green DOT Logo upper right corner, centered
Map Filename; Date	Lower left corner
Scale Bar	Alternating Scale Bar 1, Font 5, Miles Above centered
Boundary Names	Canada, Vermont, Maine, Massachusetts used
Map Scale	1:795:000



ROADS BY FUNCTION

ROUTE SYSTEM

This map displays the major routes by Type: Turnpikes, Interstates, U.S. Routes, State Routes, and Non-Numbered State Routes.



Filenames: route-system .PDF .MXD .PNG

Zoom To: State Display **Map Scale:** 1:795,000 **Page setup**: 11x17

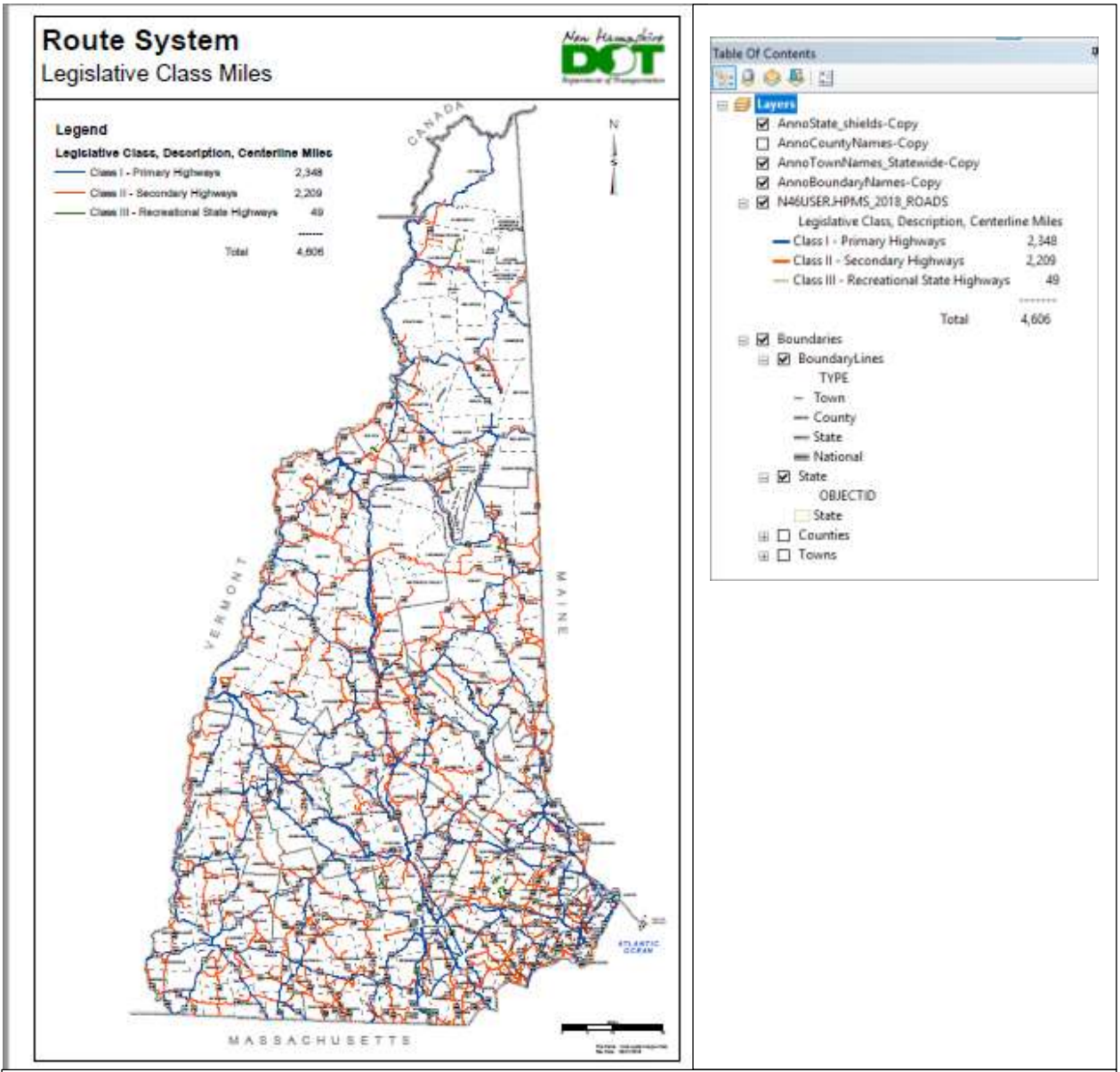
Source Data: N46USER.HPMS_2018_ROADS

Other GIS Layers:
Town Names
Boundary Names

ROUTE SYSTEM-LEGISLATIVE CLASS MILES

This map displays roads by Legislative Classes (1) Primary Highways, (2) Secondary Highways, and (3) Recreation Roads.

This map should match the Roads and Highways Facts & Figures Report.



Filenames: route-system-legis-miles .PDF .MXD .PNG

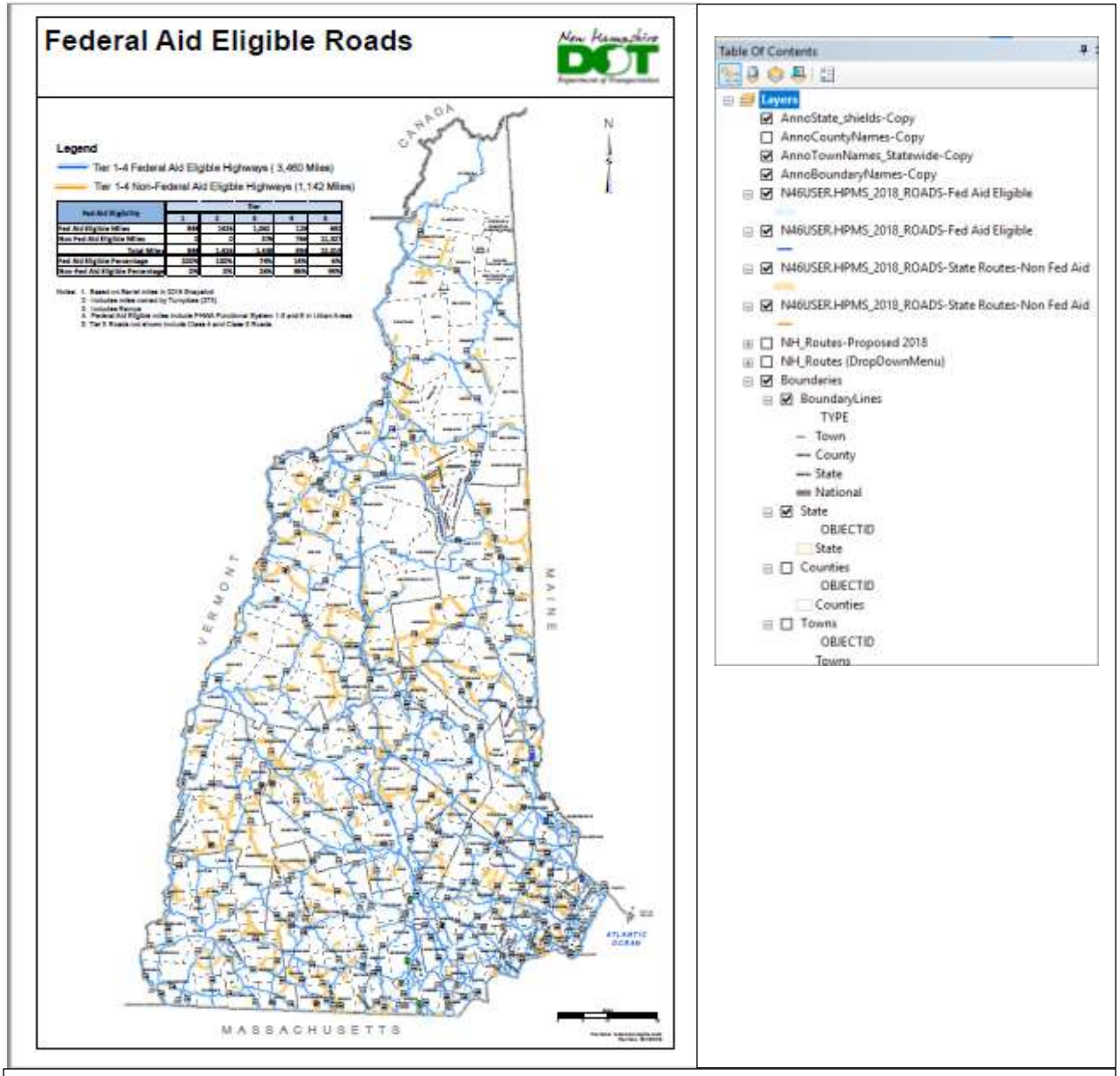
Zoom To: State Display **Map Scale:** 1:795,000 **Page setup**: 11x17

Source Data: N46USER.HPMS_2018_ROADS

Other GIS Layers:
Town Names
Boundary Names

FEDERAL AID ELIGIBLE (WITH MILEAGES)

This map displays Federal Aid Eligible roads broken out by Tiers.



Filenames: federal-aid-eligible-roads .PDF .MXD .PNG

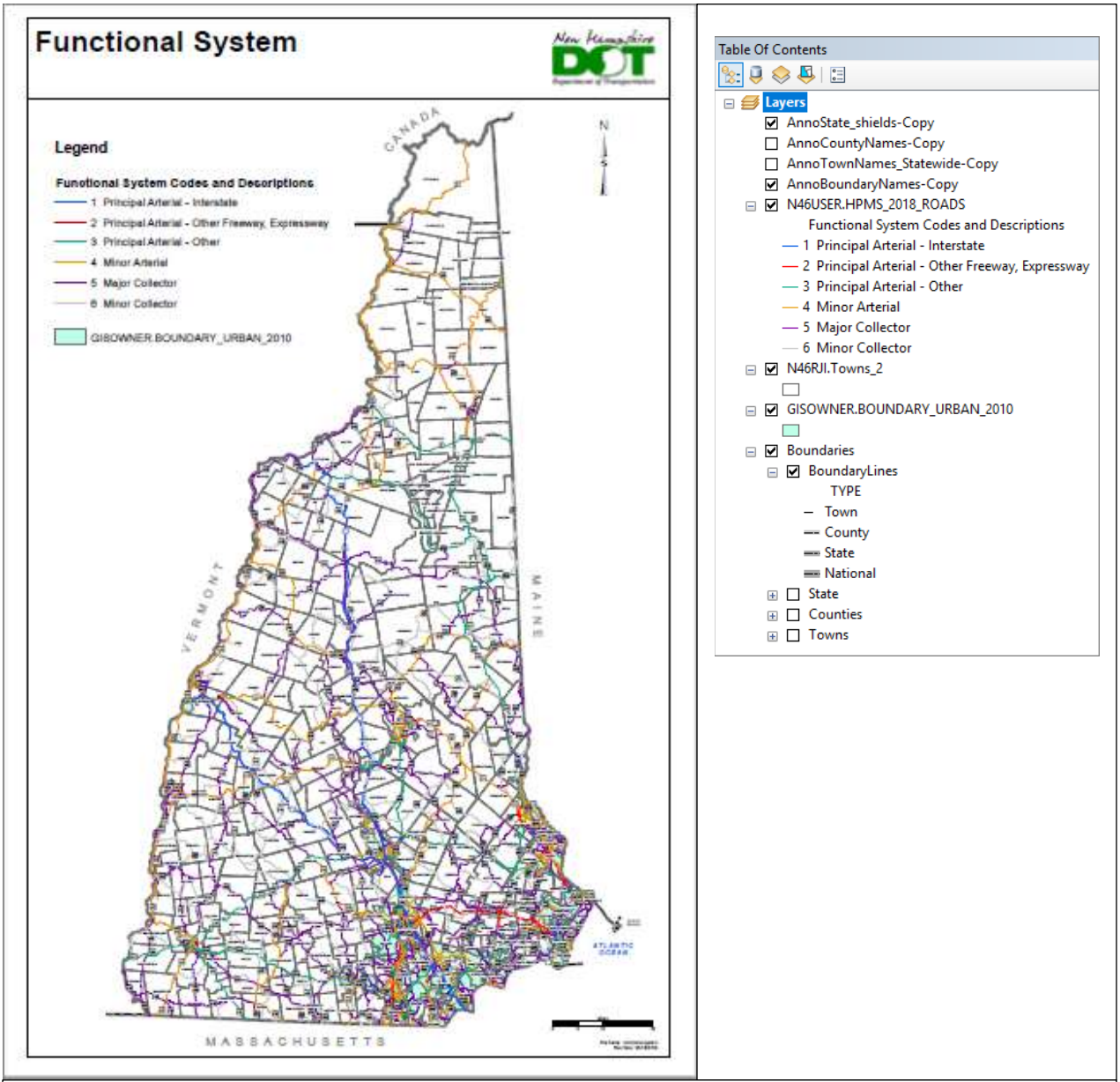
Zoom To: State Display **Map Scale:** 1:795,000 **Page setup**: 11x17

Source Data: N46USER.HPMS_2018_ROADS

Other GIS Layers:
Town Names
Boundary Names

FUNCTIONAL SYSTEM

This map displays the Function System classification and Urban 2010 Boundaries.



Filenames: functional-system .PDF .MXD .PNG

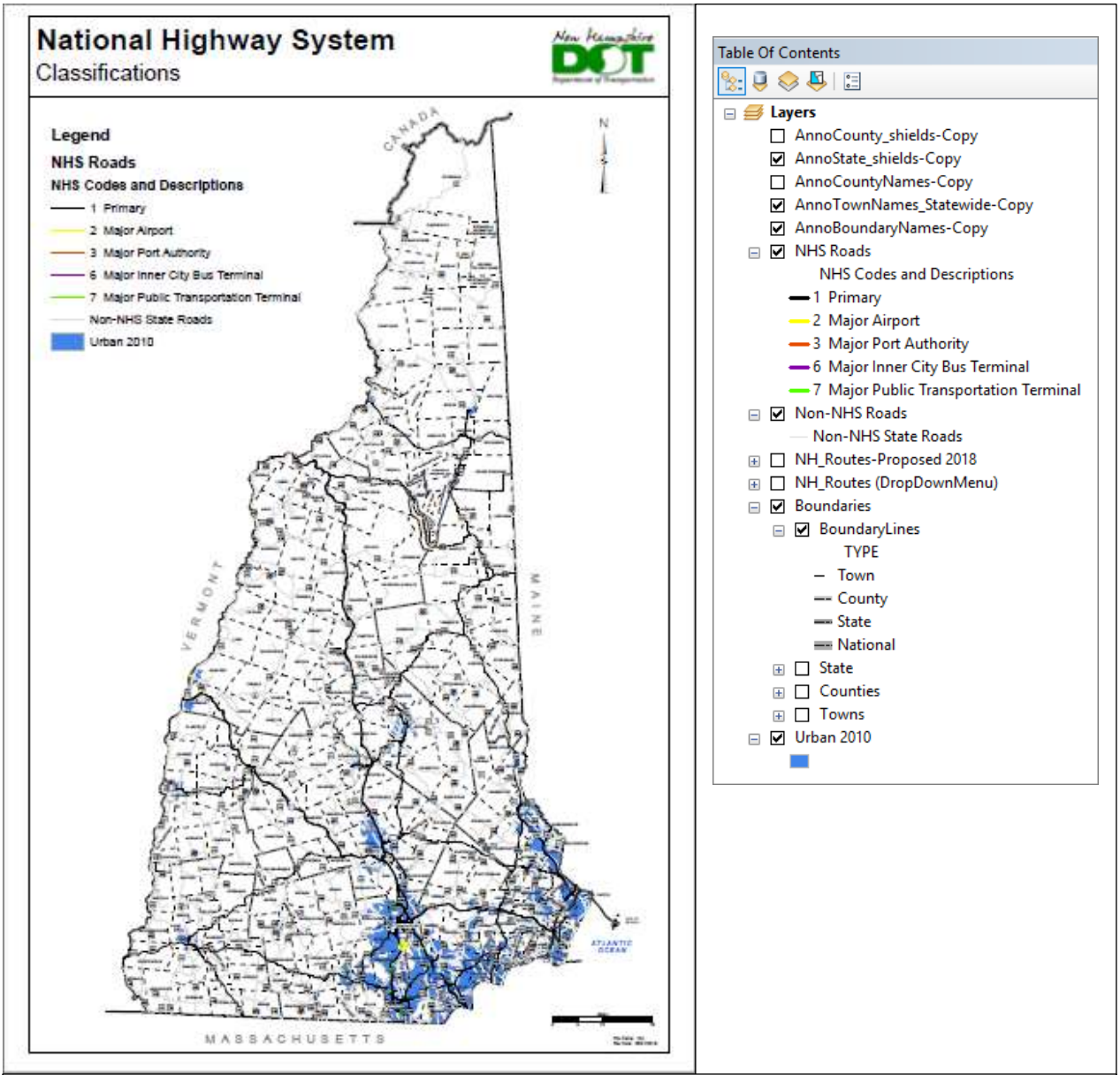
Zoom To: State Display **Map Scale:** 1:795,000 **Page setup**: 11x17

Source Data: N46USER.HPMS_2018_ROADS

Other GIS Layers:
Town Names
Boundary Names

NATIONAL HIGHWAY SYSTEM (NHS)

This map displays roads designated NHS with classifications.



Filenames: nhs .PDF .MXD .PNG

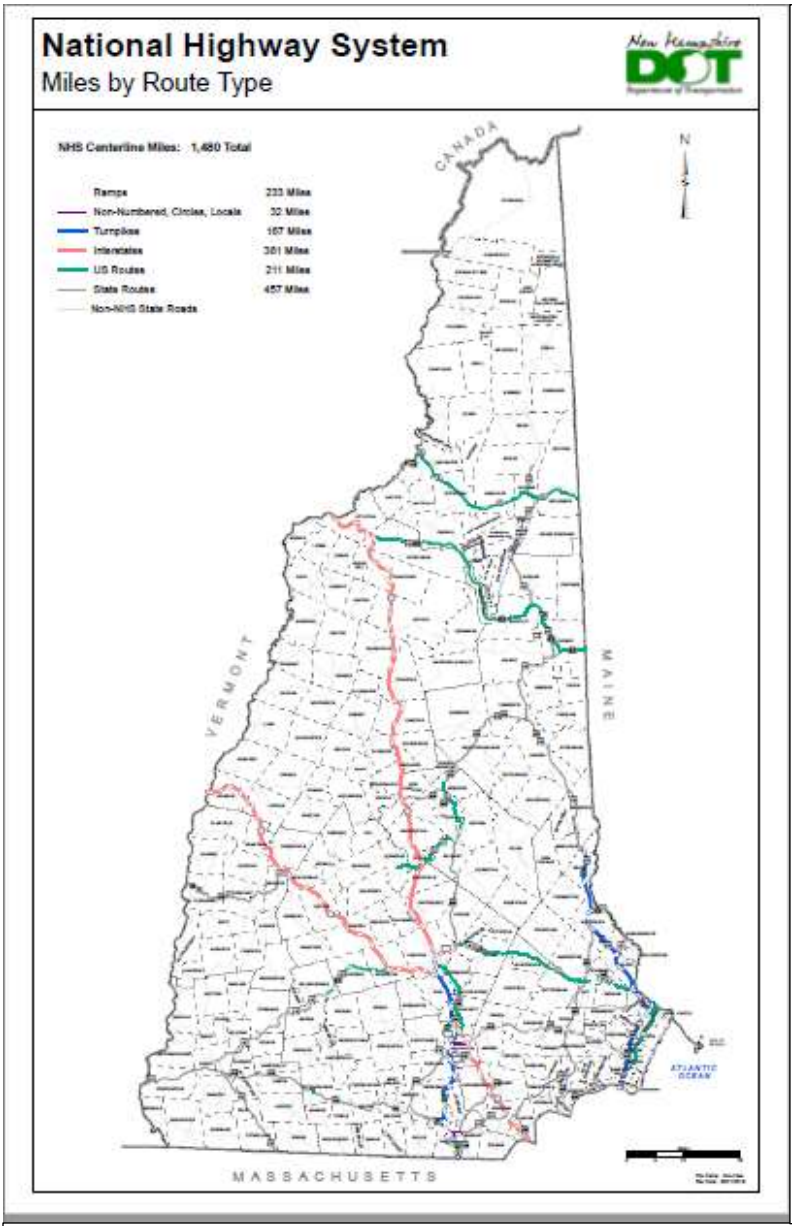
Zoom To: State Display **Map Scale:** 1:795,000 **Page setup**: 11x17

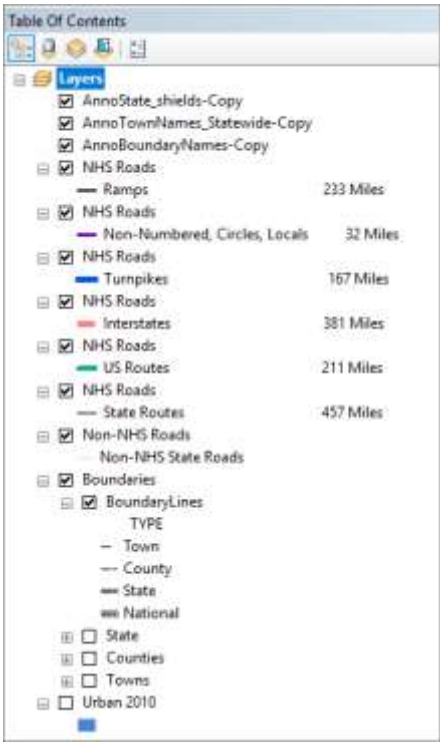
Source Data: N46USER.HPMS_2018_ROADS

Other GIS Layers:
Town Names
Boundary Names

NATIONAL HIGHWAY SYSTEM (NHS) (WITH MILEAGES)

This map displays the NHS system by Route type.





Filenames: nhs-miles .PDF .MXD .PNG

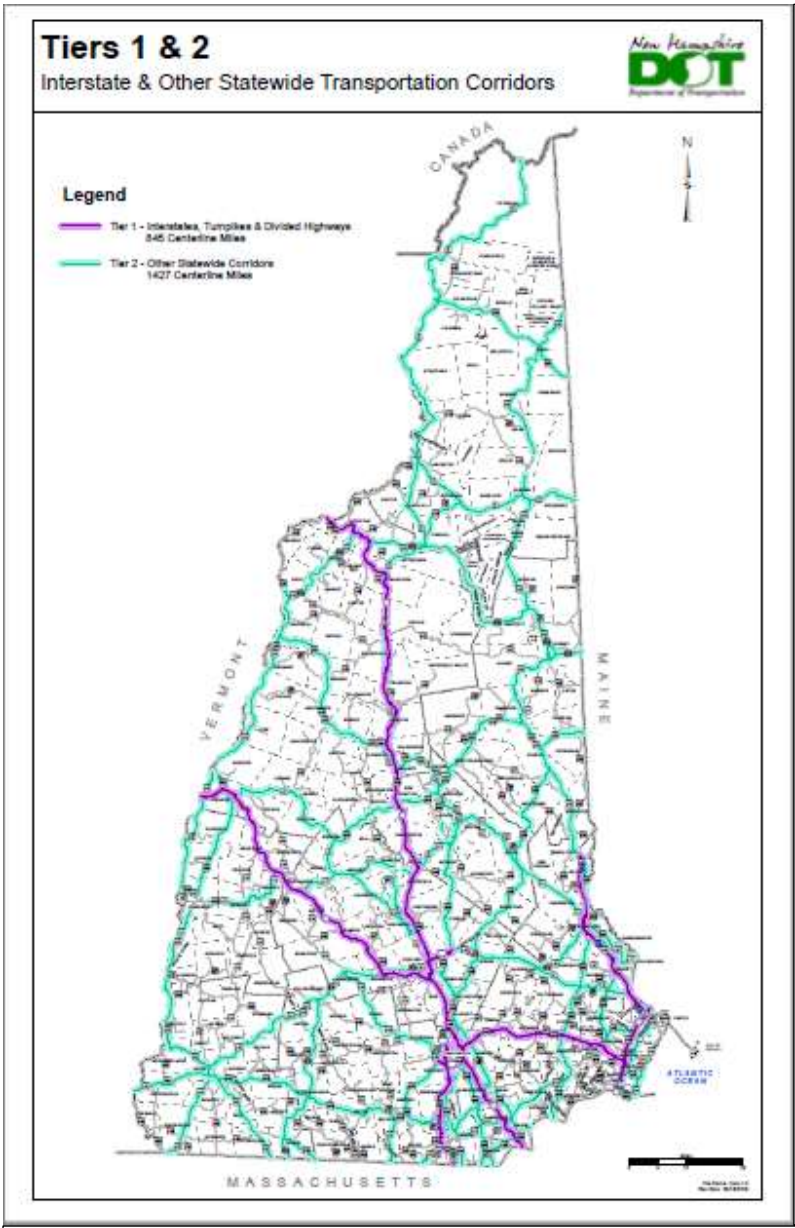
Zoom To: State Display **Map Scale:** 1:795,000 **Page setup**: 11x17

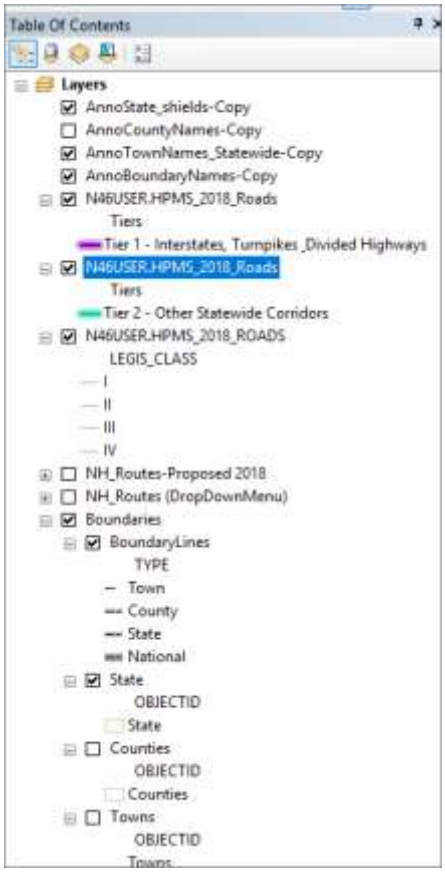
Source Data: N46USER.HPMS_2018_ROADS

Other GIS Layers:
Town Names
Boundary Names

TIERS 1 AND 2 (WITH MILEAGES)

This map displays Tier 1 and 2 State roads.





Filenames: tiers-1-2 .PDF .MXD .PNG

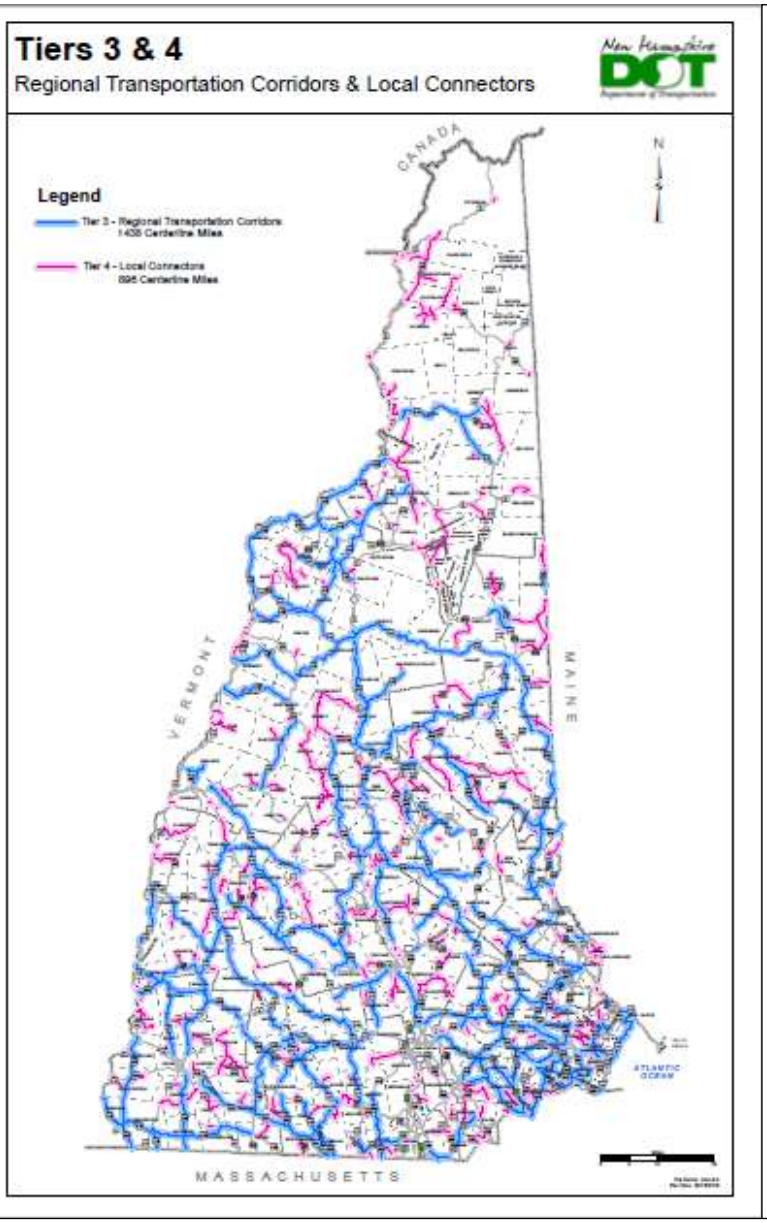
Zoom To: State Display **Map Scale:** 1:795,000 **Page setup**: 11x17

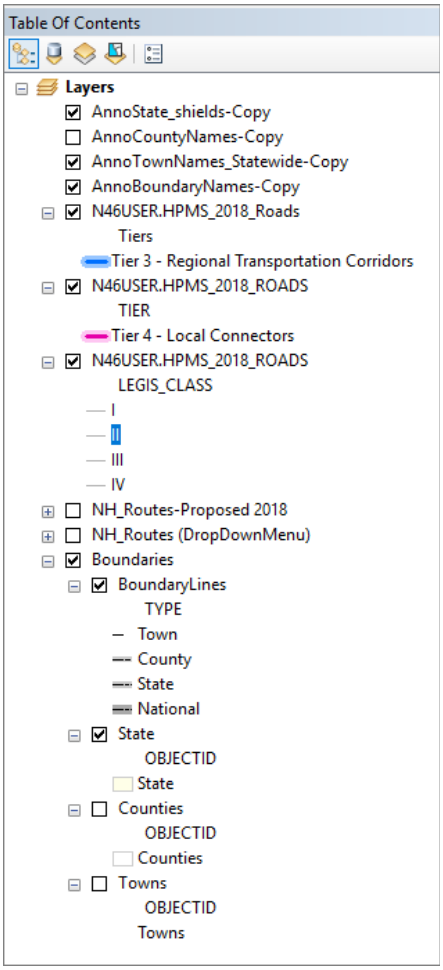
Source Data: N46USER.HPMS_2018_ROADS

Other GIS Layers:
Town Names
Boundary Names

TIERS 3 AND 4 (WITH MILEAGES)

This map displays Tier 3 and 4 State roads.





Filenames: tiers-3-4 .PDF .MXD .PNG

Zoom To: State Display **Map Scale:** 1:795,000 **Page setup**: 11x17

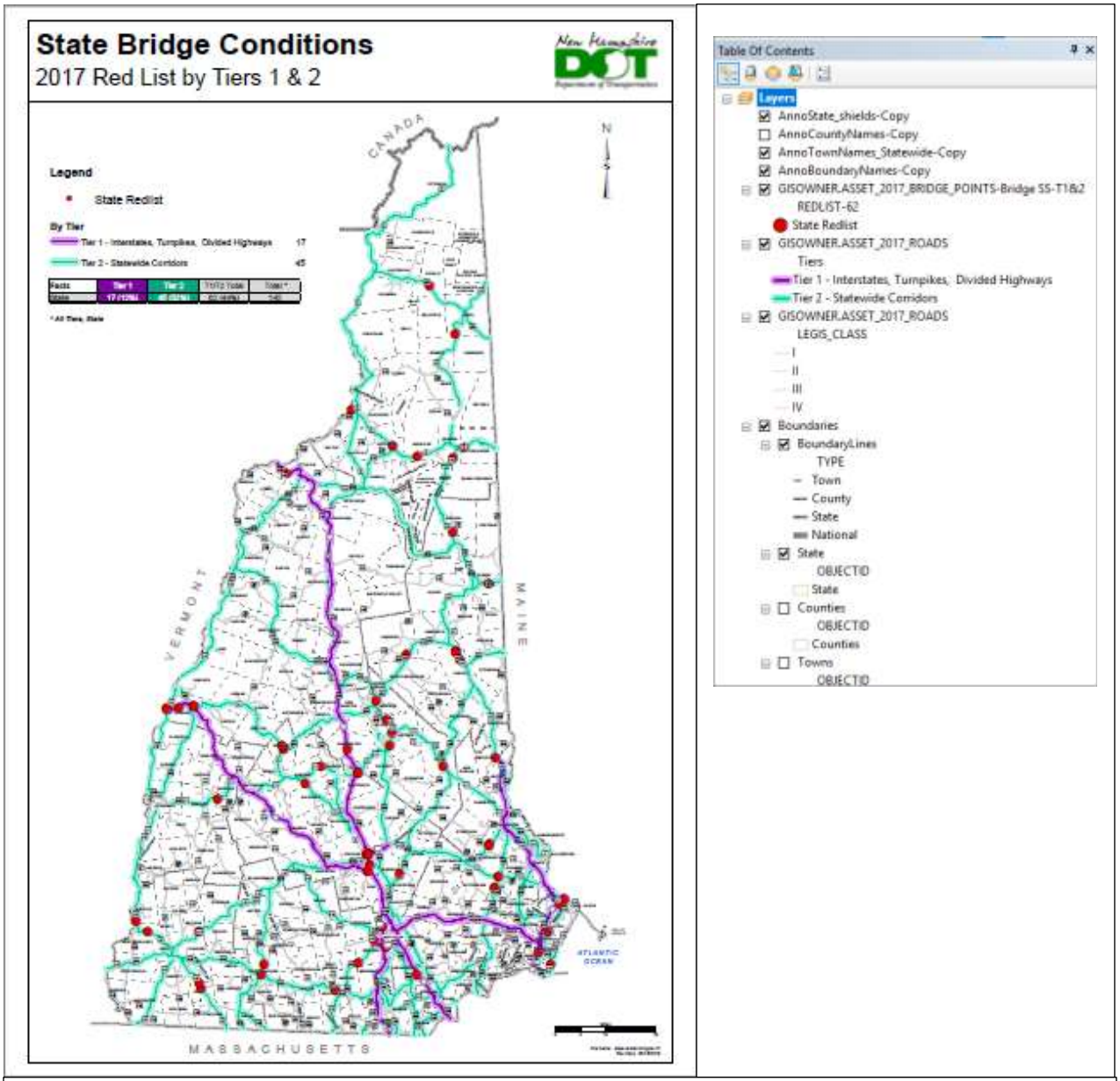
Source Data: N46USER.HPMS_2018_ROADS

Other GIS Layers:
Town Names
Boundary Names

ROADS BY CONDITION (GACIT)

STATE RED LIST BRIDGES ON TIERS 1 AND 2

This map displays State Red List Bridges on Tiers 1 and 2. Odd years used for GACIT.



Filenames: state-redlist-bridges-t12 .PDF .MXD .PNG

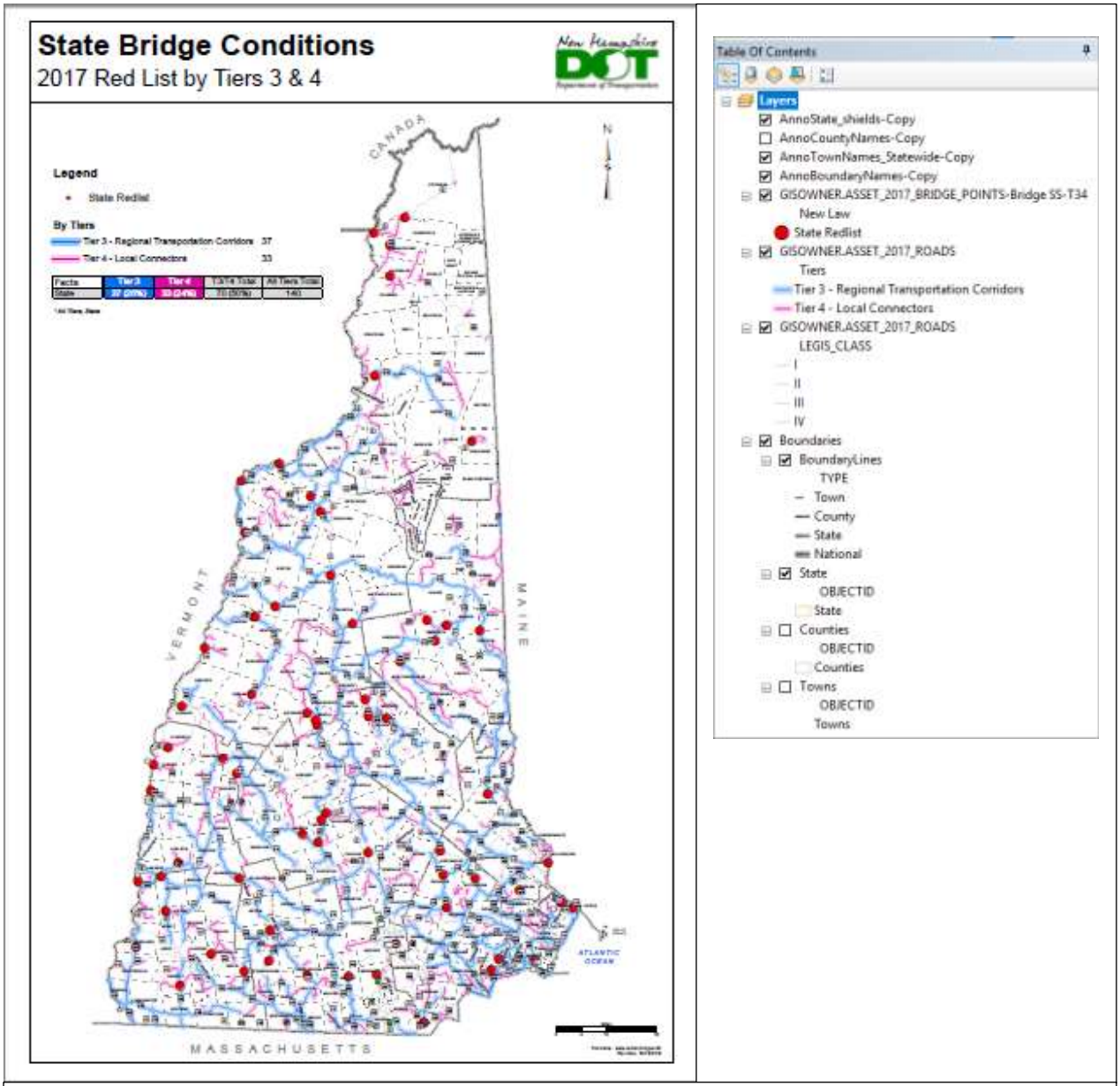
Zoom To: State Display **Map Scale:** 1:795,000 **Page setup**: 11x17

Source Data: GISOWNER.ASSET_BRIDGE_POINTS GISOWNER.ASSET_2017_ROADS

Other GIS Layers:
Town Names
Boundary Names

STATE RED LIST BRIDGES ON TIERS 3 AND 4

This map displays State Red List Bridges on Ties 3 and 4. Odd years used for GACIT.



Filenames: state-redlist-bridges-t34 .PDF .MXD .PNG

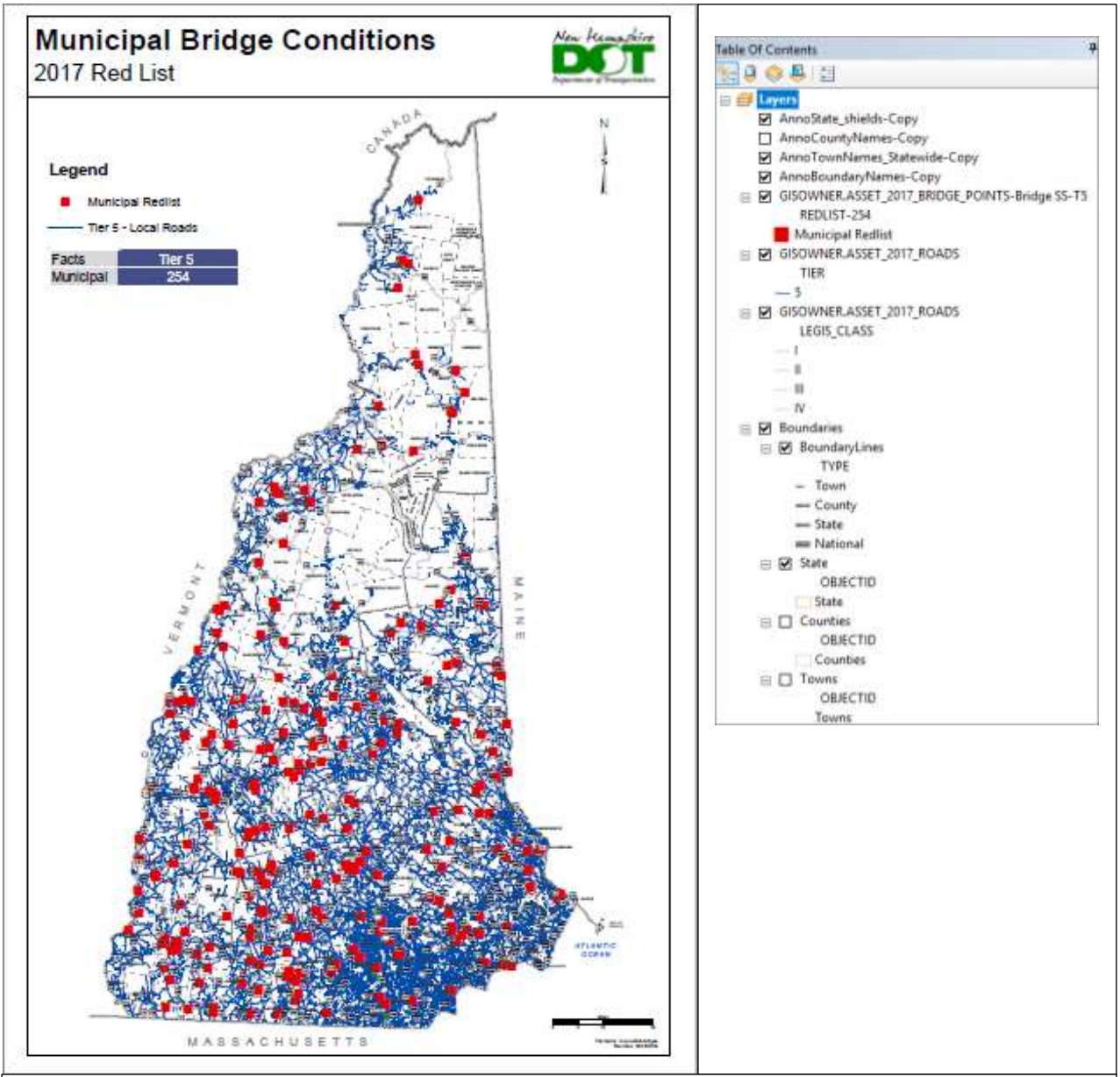
Zoom To: State Display **Map Scale:** 1:795,000 **Page setup**: 11x17

Source Data: GISOWNER.ASSET_BRIDGE_POINTS GISOWNER.ASSET_2017_ROADS

Other GIS Layers:
Town Names
Boundary Names

MUNICIPAL RED LIST BRIDGES

This map displays Municipal Red List Bridges. Odd years used for GACIT.



Filenames: muni-redlist-bridges .PDF .MXD .PNG

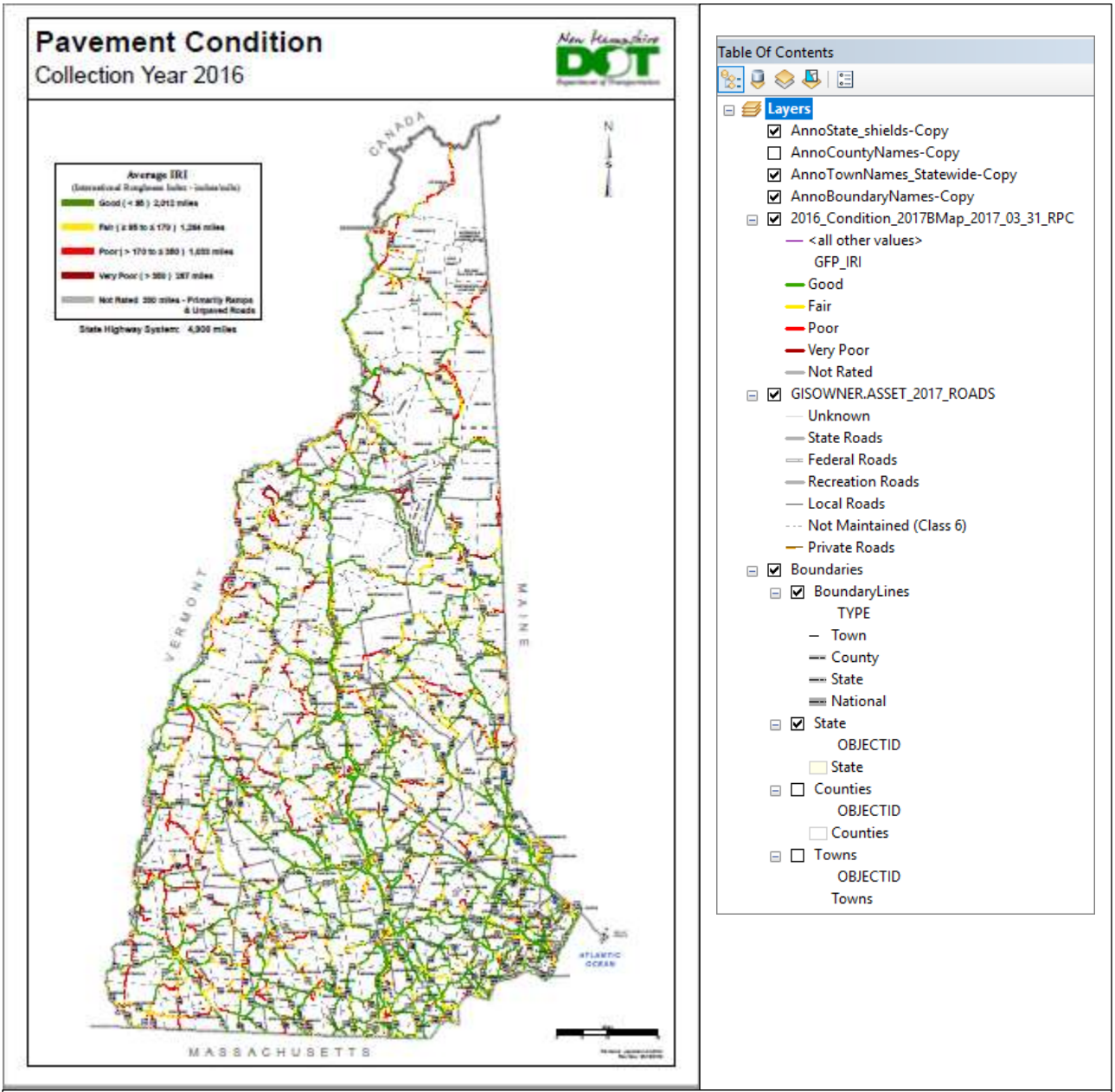
Zoom To: State Display **Map Scale:** 1:795,000 **Page setup**: 11x17

Source Data: GISOWNER.ASSET_BRIDGE_POINTS GISOWNER.ASSET_2017_ROADS

Other GIS Layers:
Town Names
Boundary Names

2016 PAVEMENT CONDITIONS

The Bureau of Materials & Research manages this data and creates map.



Filenames: pavement-condition .PDF .MXD .PNG

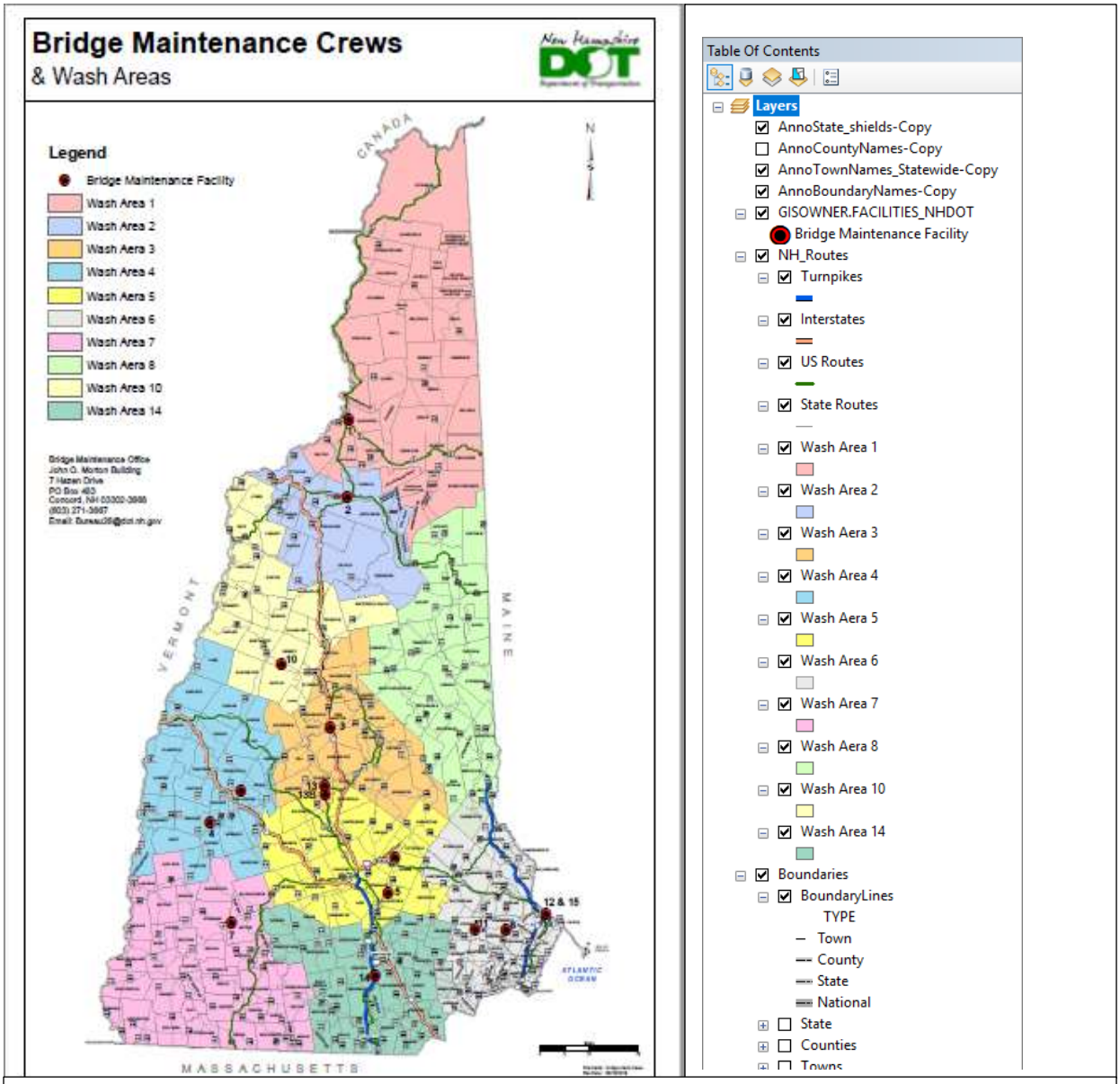
Zoom To: State Display **Map Scale:** 1:795,000 **Page setup**: 11x17

Source Data: N:\GIS\Bureau Data\Materials\Pavement\2016_Condition_RPC\2016_Condition_2017BMap_2017_03_31_RPC\2016_Condition_2017BMap_2017_03_31_RPC.shp; GISOWNER.ASSET_2017_ROADS

Other GIS Layers:
Town Names
Boundary Names

DOT OPERATIONS

BRIDGE MAINTENANCE CREWS



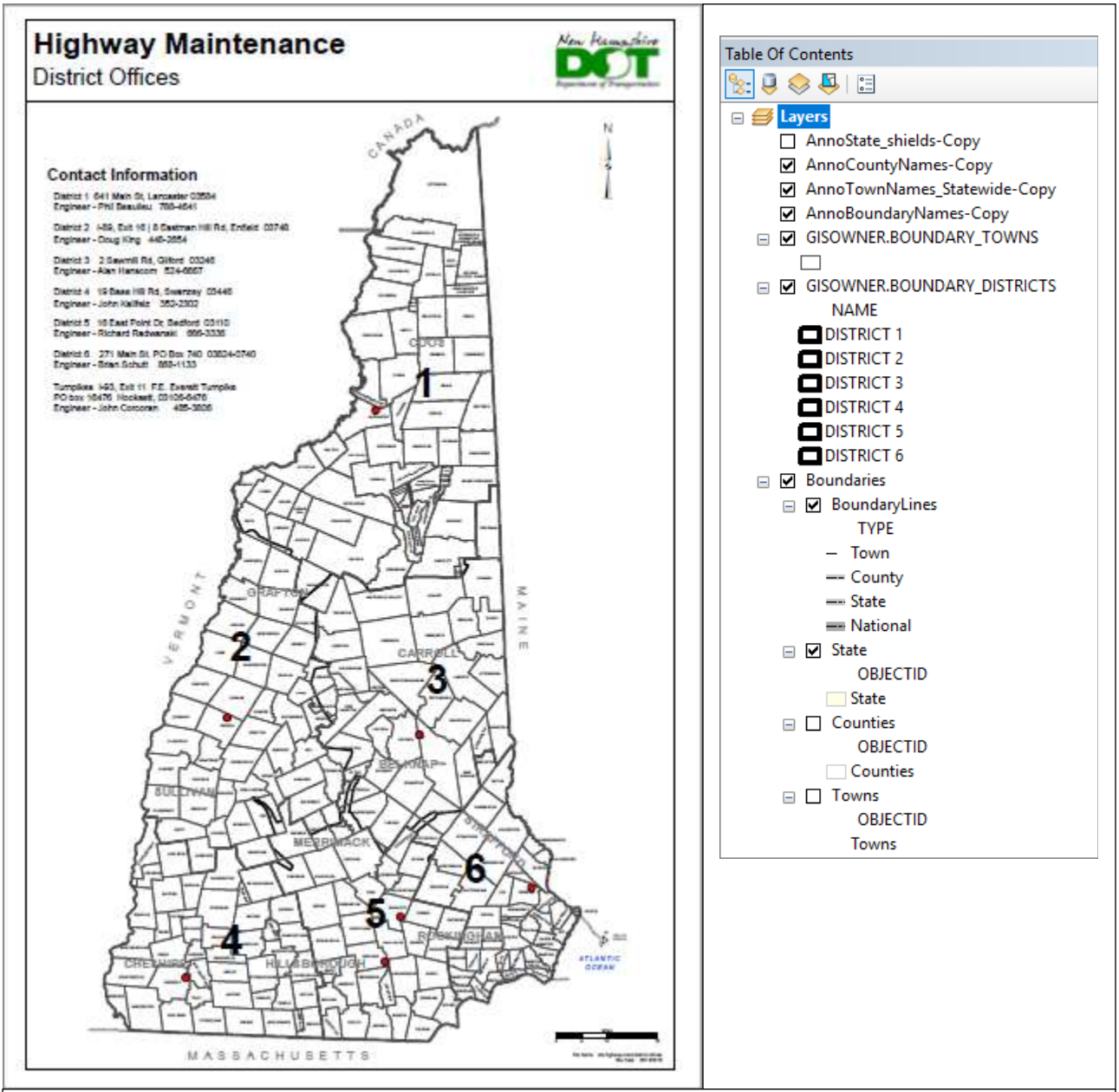
Filenames: bridge-maint-crews .PDF .MXD .PNG

Zoom To: State Display **Map Scale:** 1:795,000 **Page setup**: 11x17

Source Data: GISOWNER.FACILITIES_NHDOT

Other GIS Layers:
Town Names
Boundary Names

HIGHWAY MAINTENANCE DISTRICTS OFFICES



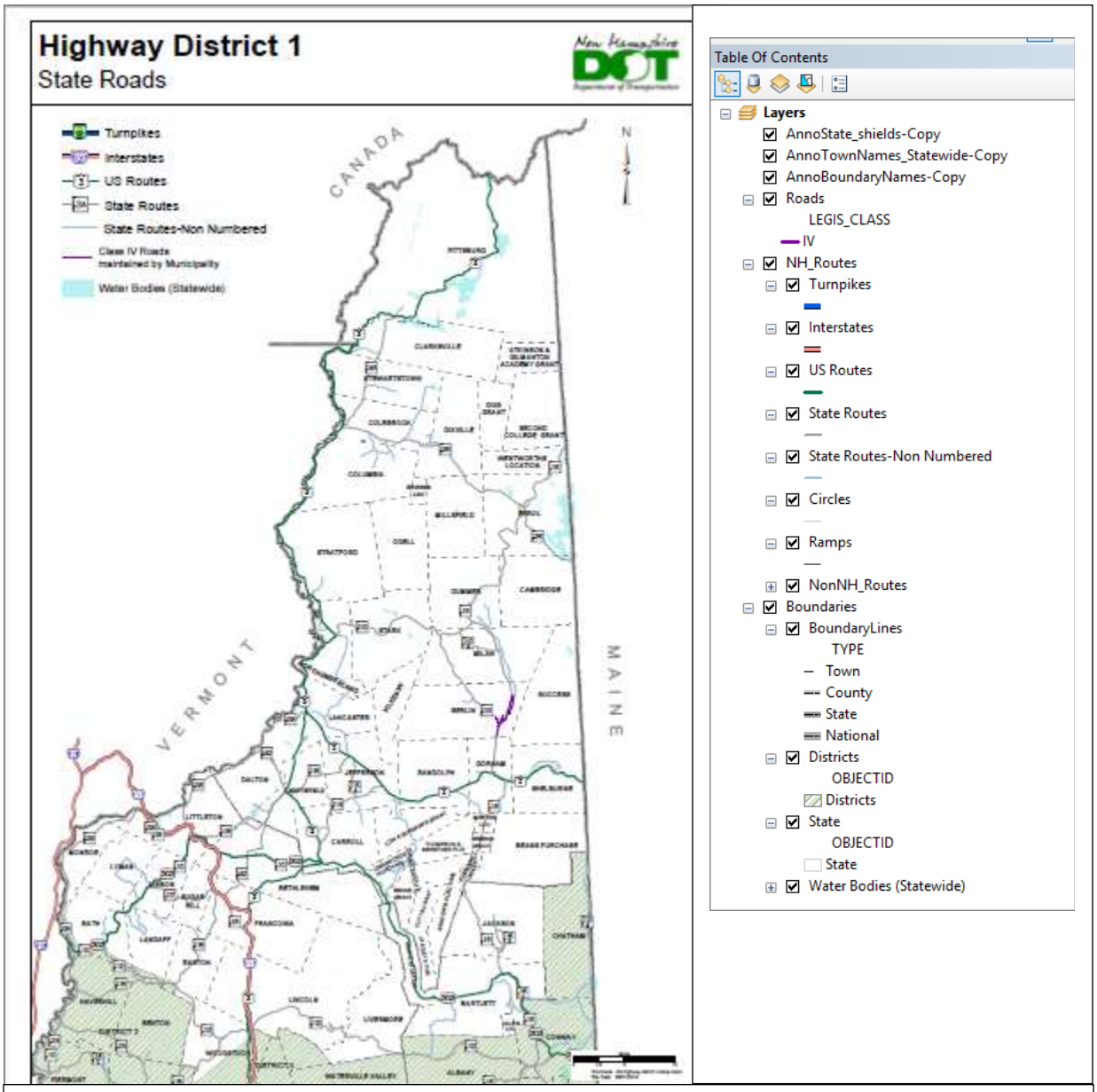
Filenames: highway-maint-district-offices .PDF .MXD .PNG

Zoom To: State Display **Map Scale:** 1:795,000 **Page setup**: 11x17

Source Data: GISOWNER.BOUNDARY_TOWNS GISOWNER.BOUNDARY_DISTRICT

Other GIS Layers:
Town Names
Boundary Names

DISTRICT 1 STATE ROADS



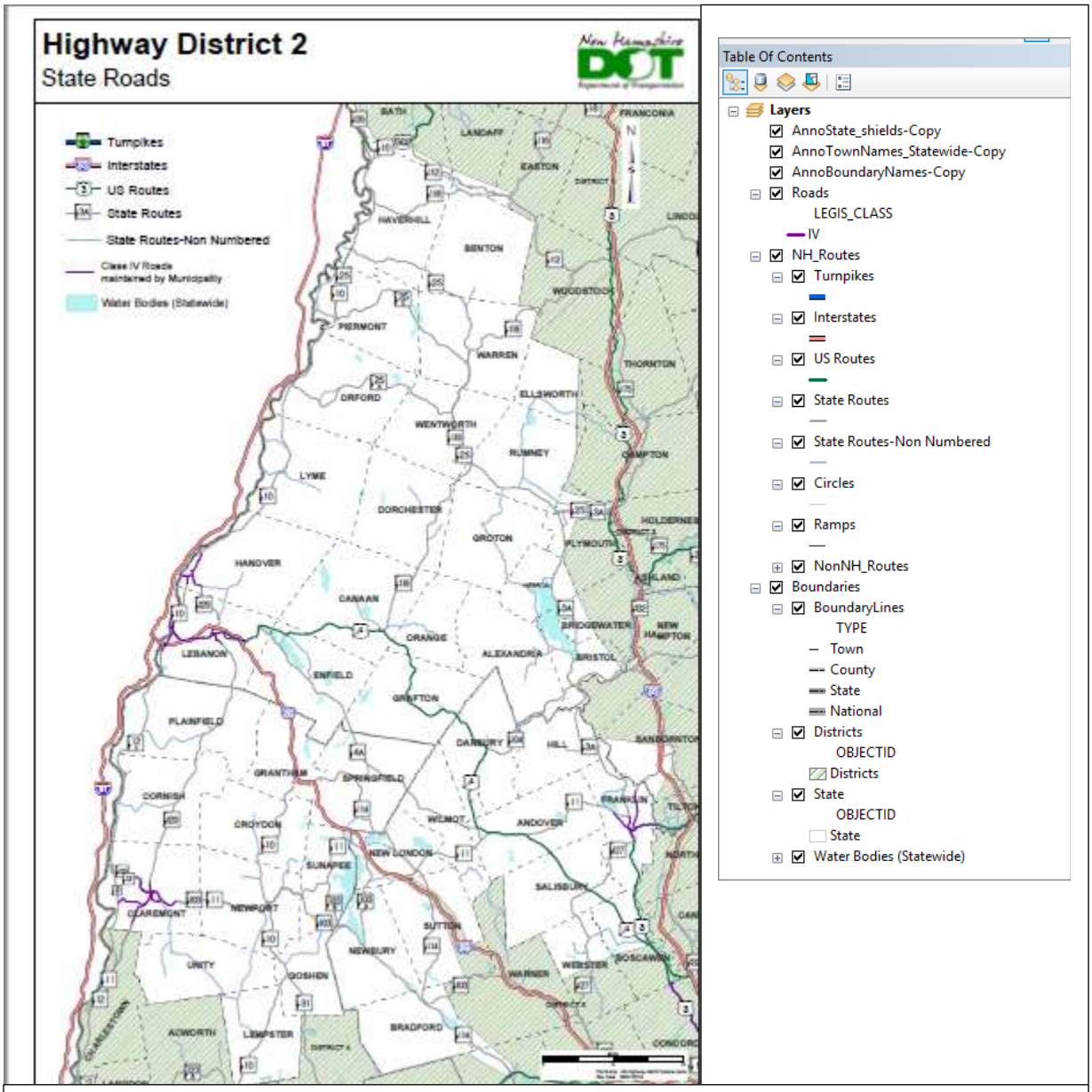
Filenames: highway-district1-roads .PDF .MXD .PNG

Zoom To: District – District 1 **Map Scale:** 1:407,000 **Page setup**: 11x17

Source Data: N46USER.HPMS_2018_ROADS

Other GIS Layers:
Town Names
Boundary Names

DISTRICT 2 STATE ROADS



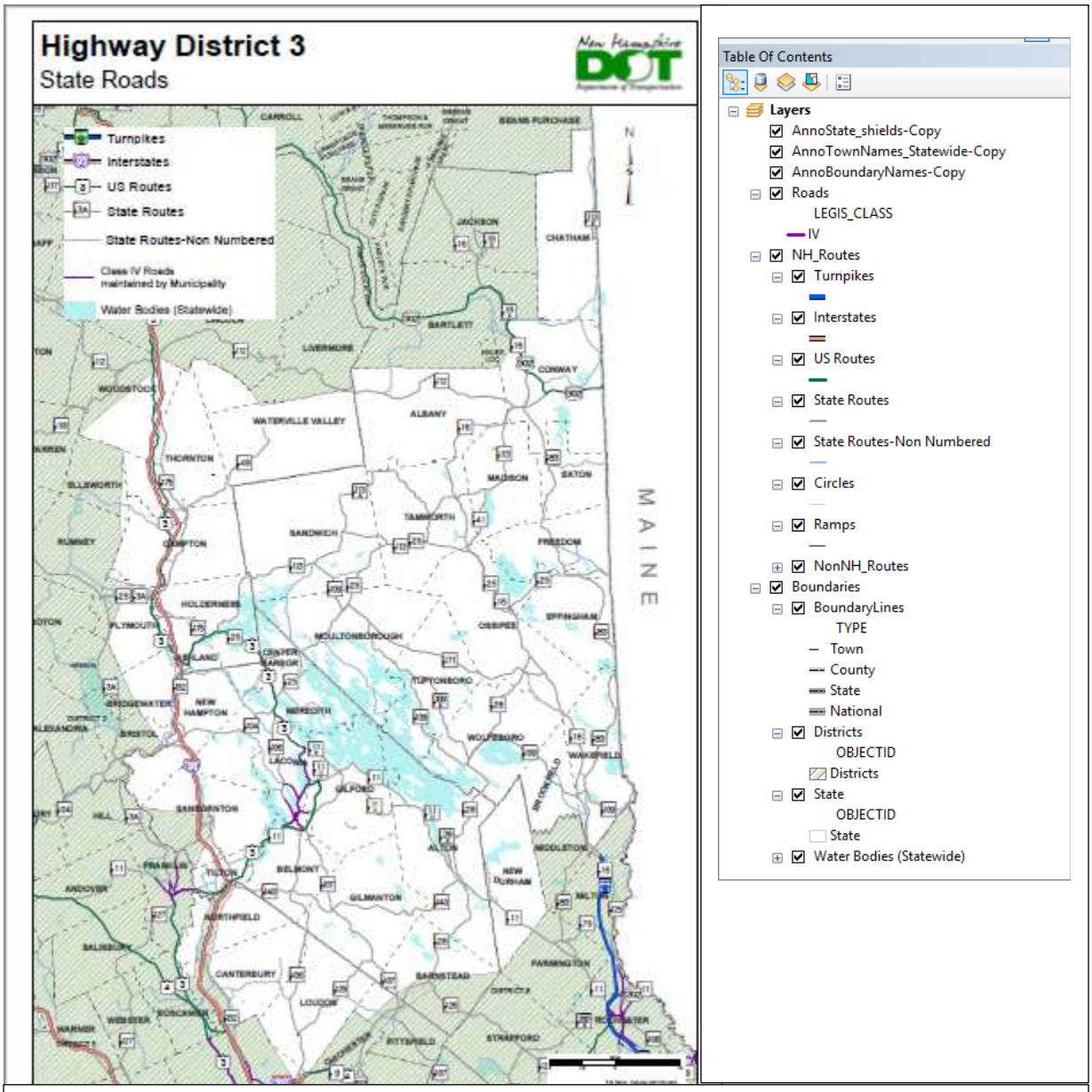
Filenames: highway-district2-roads .PDF .MXD .PNG

Zoom To: District-District2 **Map Scale:** 1:295,000 **Page setup**: 11x17

Source Data: N46USER.HPMS_2018_ROADS

Other GIS Layers:
Town Names
Boundary Names

DISTRICT 3 STATE ROADS



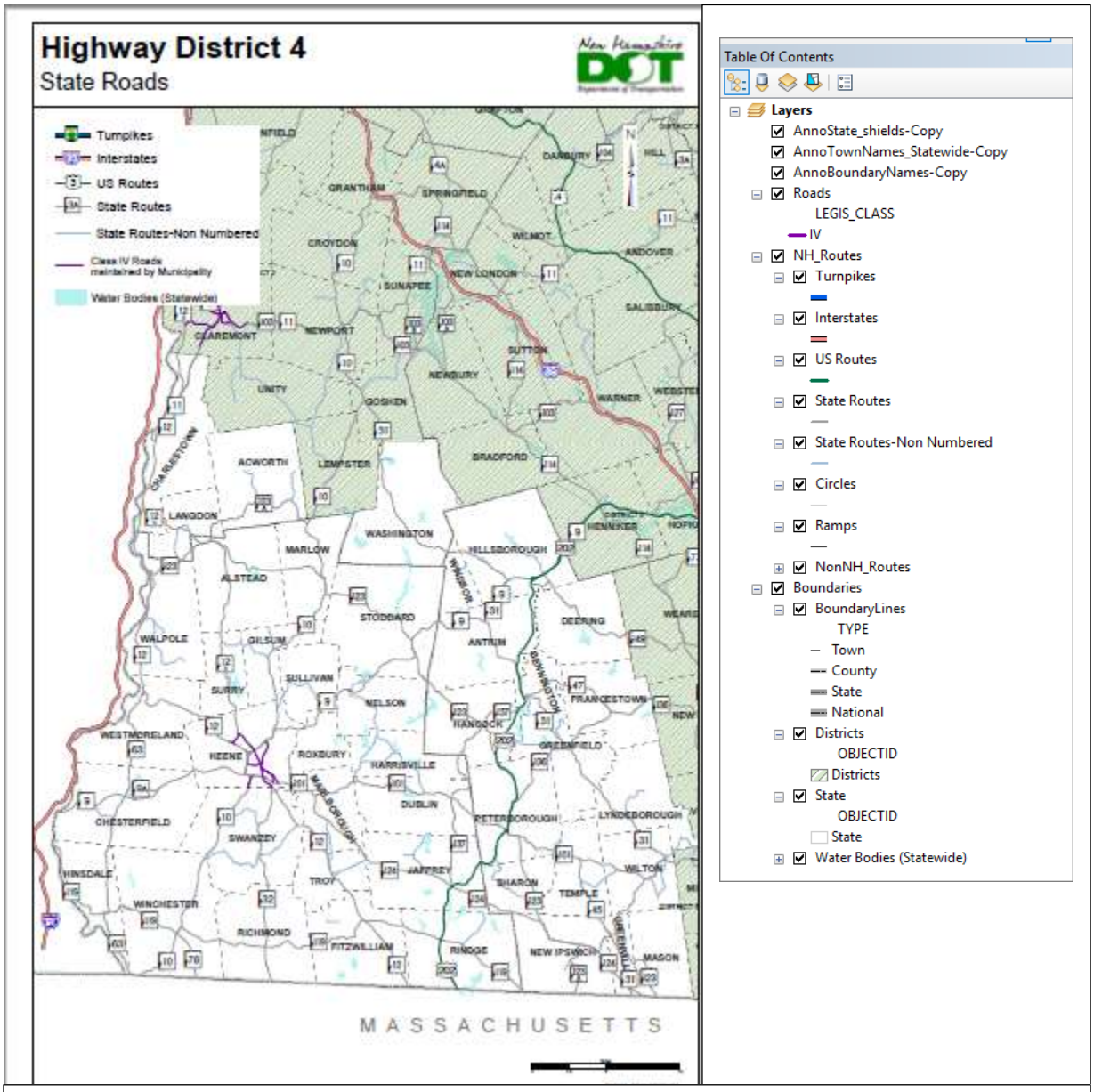
Filenames: highway-district3-roads .PDF .MXD .PNG

Zoom To: District-District3 **Map Scale:** 1:315,000 **Page setup**: 11x17

Source Data: N46USER.HPMS_2018_ROADS

Other GIS Layers:
Town Names
Boundary Names

DISTRICT 4 STATE ROADS



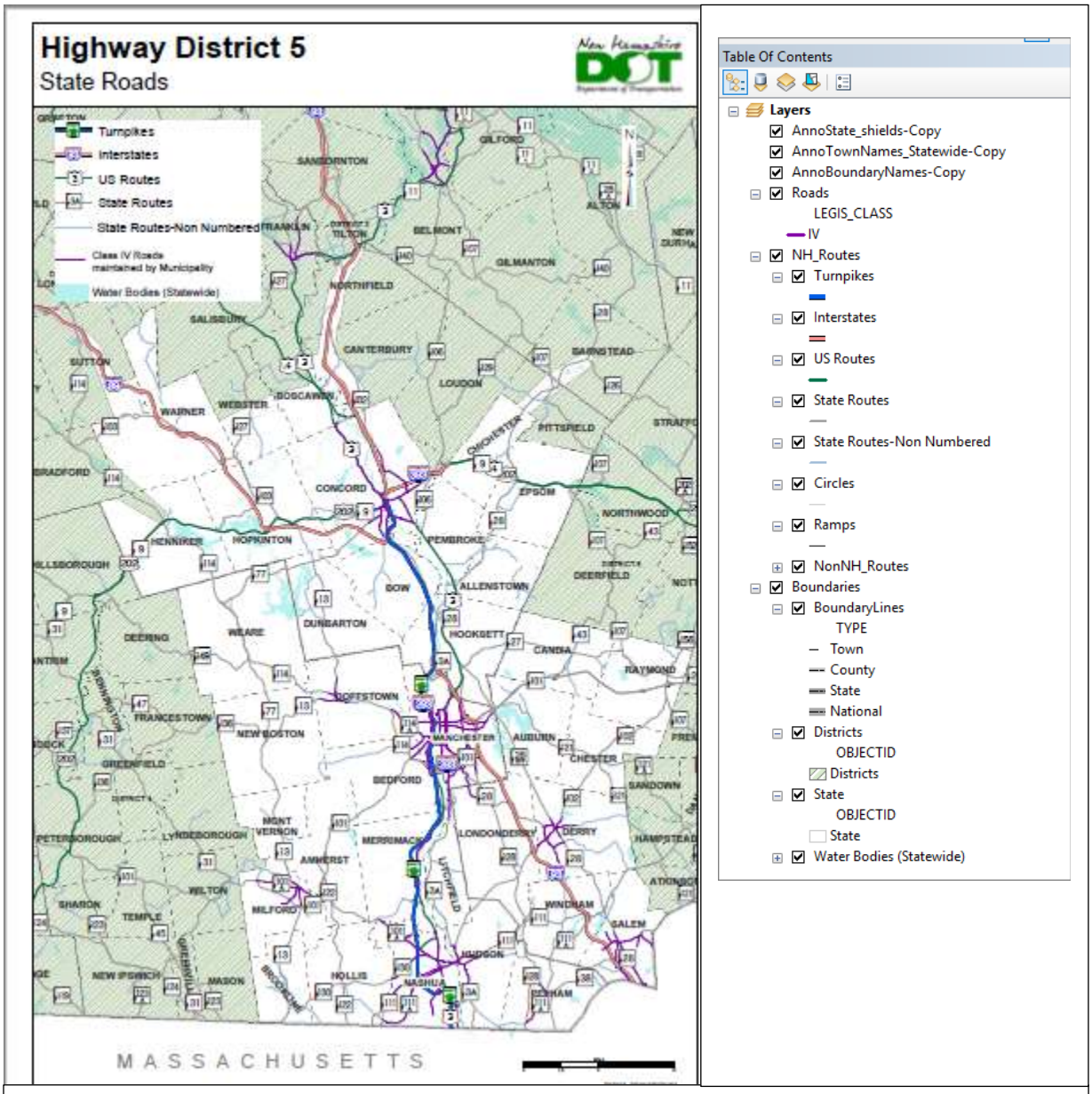
Filenames: highway-district4-roads .PDF .MXD .PNG

Zoom To: District-District4 **Map Scale:** 1:280,000 **Page setup**: 11x17

Source Data: N46USER.HPMS_2018_ROADS

Other GIS Layers:
Town Names
Boundary Names

DISTRICT 5 STATE ROADS



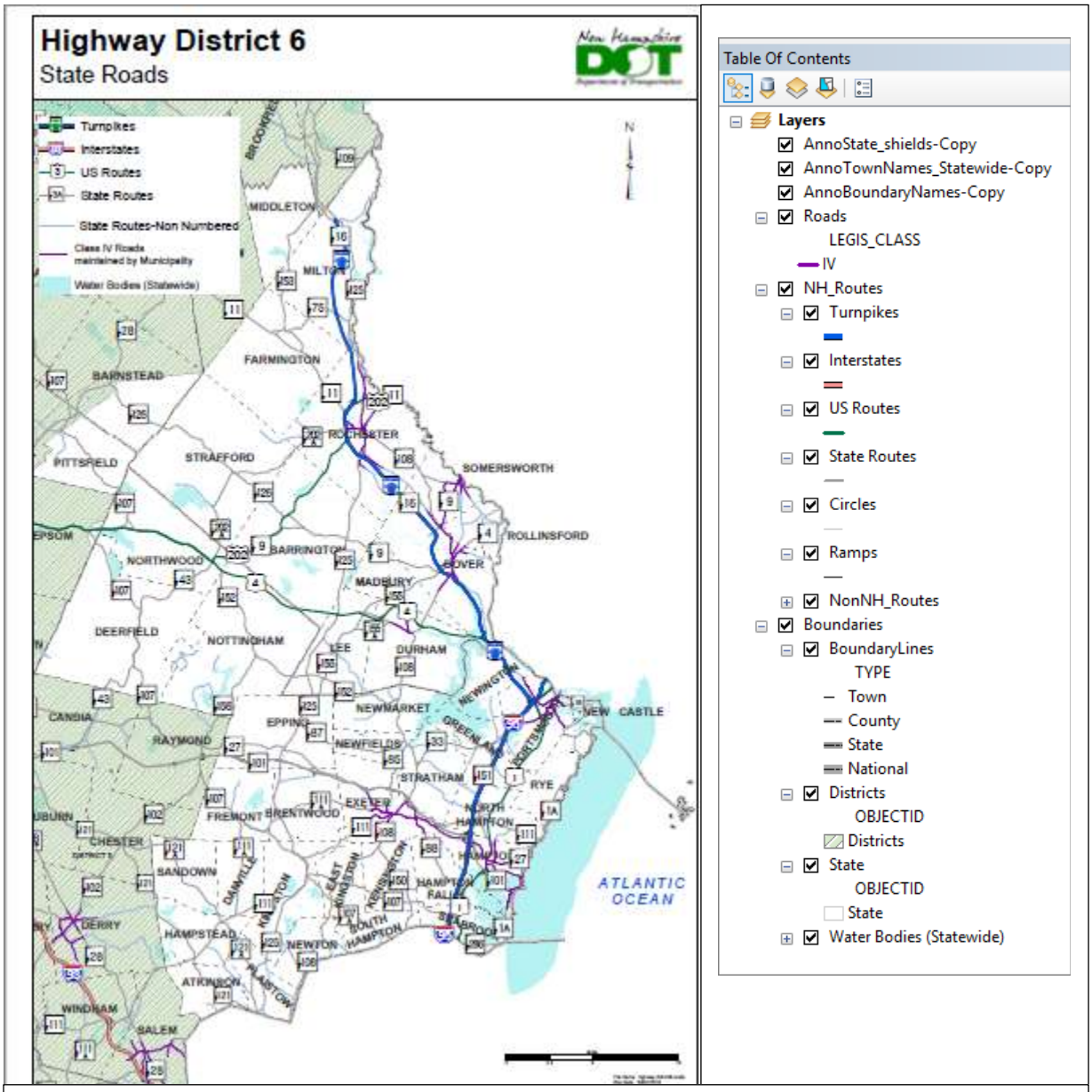
Filenames: highway-district5-roads .PDF .MXD .PNG

Zoom To: District-District5 **Map Scale:** 1:272,000 **Page setup**: 11x17

Source Data: N46USER.HPMS_2018_ROADS

Other GIS Layers:
Town Names
Boundary Names

DISTRICT 6 STATE ROADS



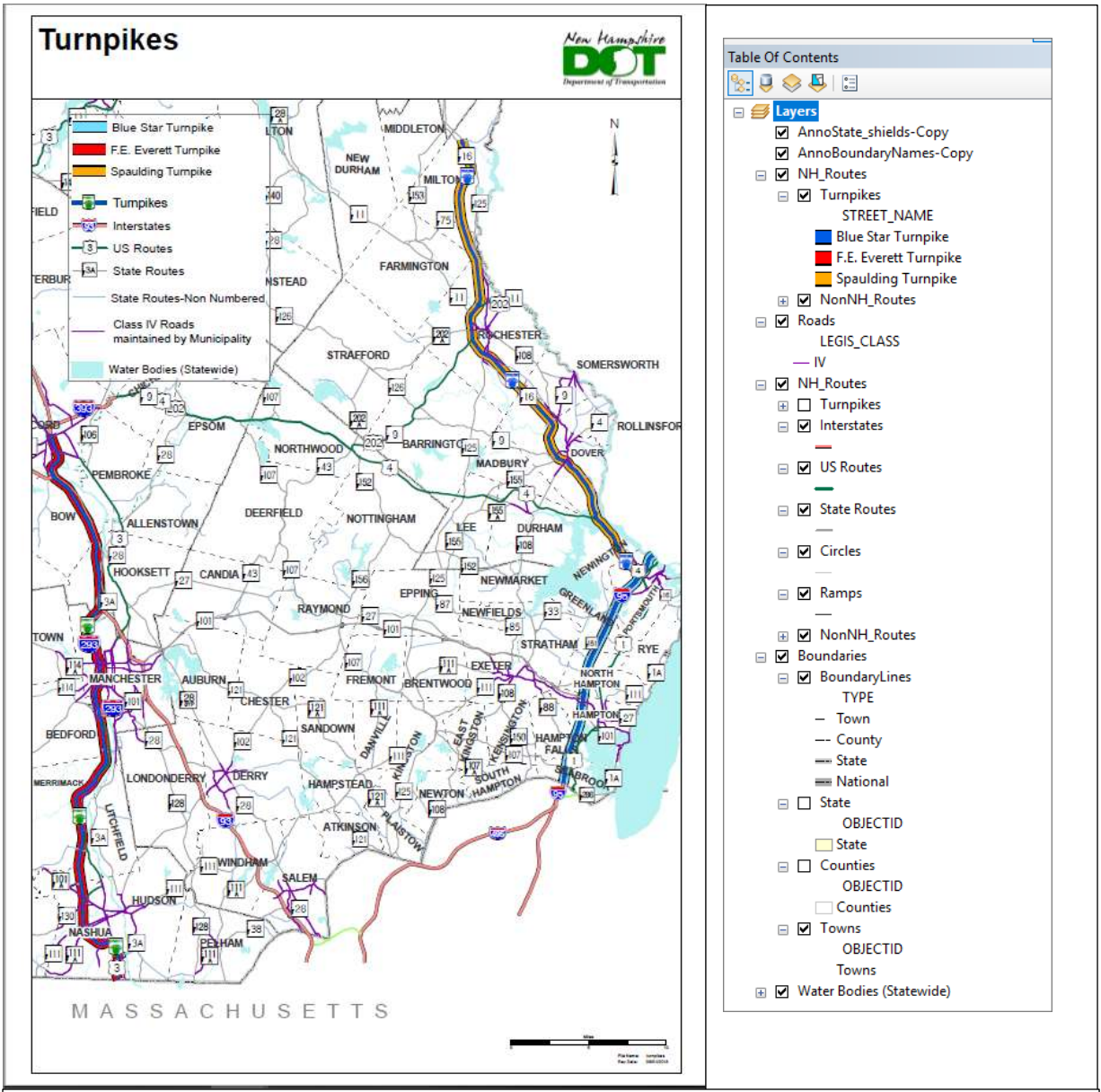
Filenames: highway-district6-roads .PDF .MXD .PNG

Zoom To: District-District6 **Map Scale:** 1:240,000 **Page setup**: 11x17

Source Data: N46USER.HPMS_2018_ROADS

Other GIS Layers:
Town Names
Boundary Names

TURNPIKES STATE ROADS



Filenames: turnpikes-roads .PDF .MXD .PNG

Zoom To: District 5 and Zoom

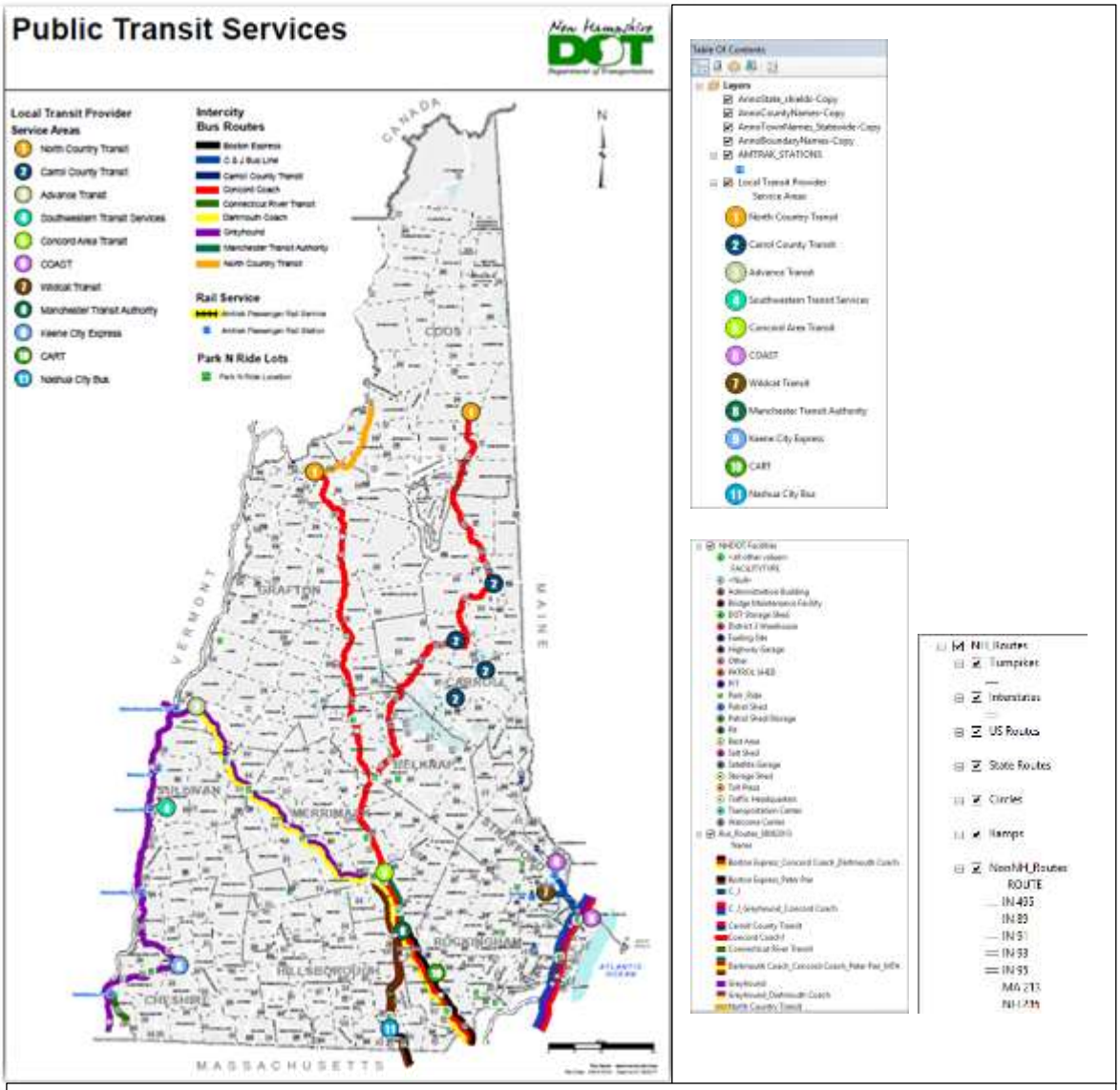
Map Scale: 1:253,073
Page setup: 11x17

Source Data: N46USER.HPMS_2018_ROADS

Other GIS Layers:
Town Names
Boundary Names

PUBLIC TRANSPORTATION

STATEWIDE TRANSIT SERVICES



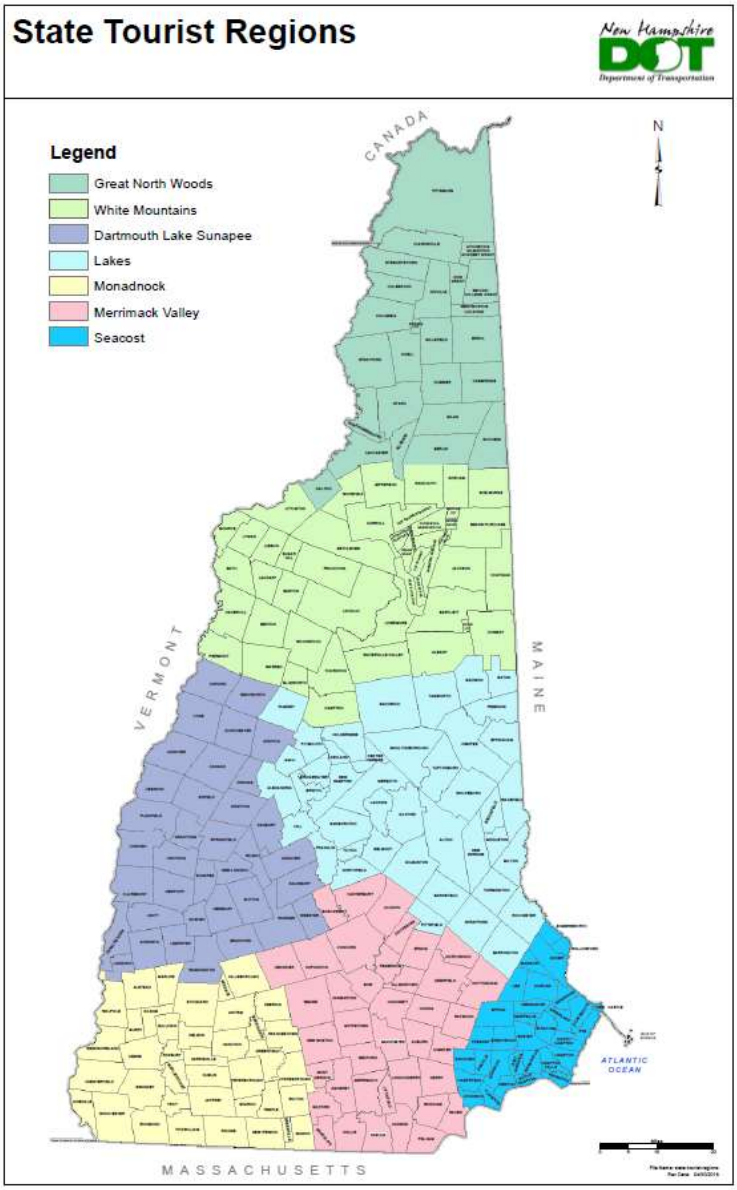
Filenames: state-transit-services .PDF .MXD .PNG

Zoom To: State Display **Map Scale:** 1:795,000 **Page setup**: 11x17

Source Data: (Bureau of Rail and Transit data)
S:\Global\B66-RailTransit\Transit\GIS\City Bus\city_bus_122706.shp
S:\Global\B66-RailTransit\Transit\GIS\Amtrak_NH\AMTRAK_STATIONS.shp
N46USER.FACILITIES_NHDOT

Other GIS Layers:
Town Names
Boundary Names

STATE TOURIST REGIONS



Filenames: state-route-system .PDF .MXD .PNG

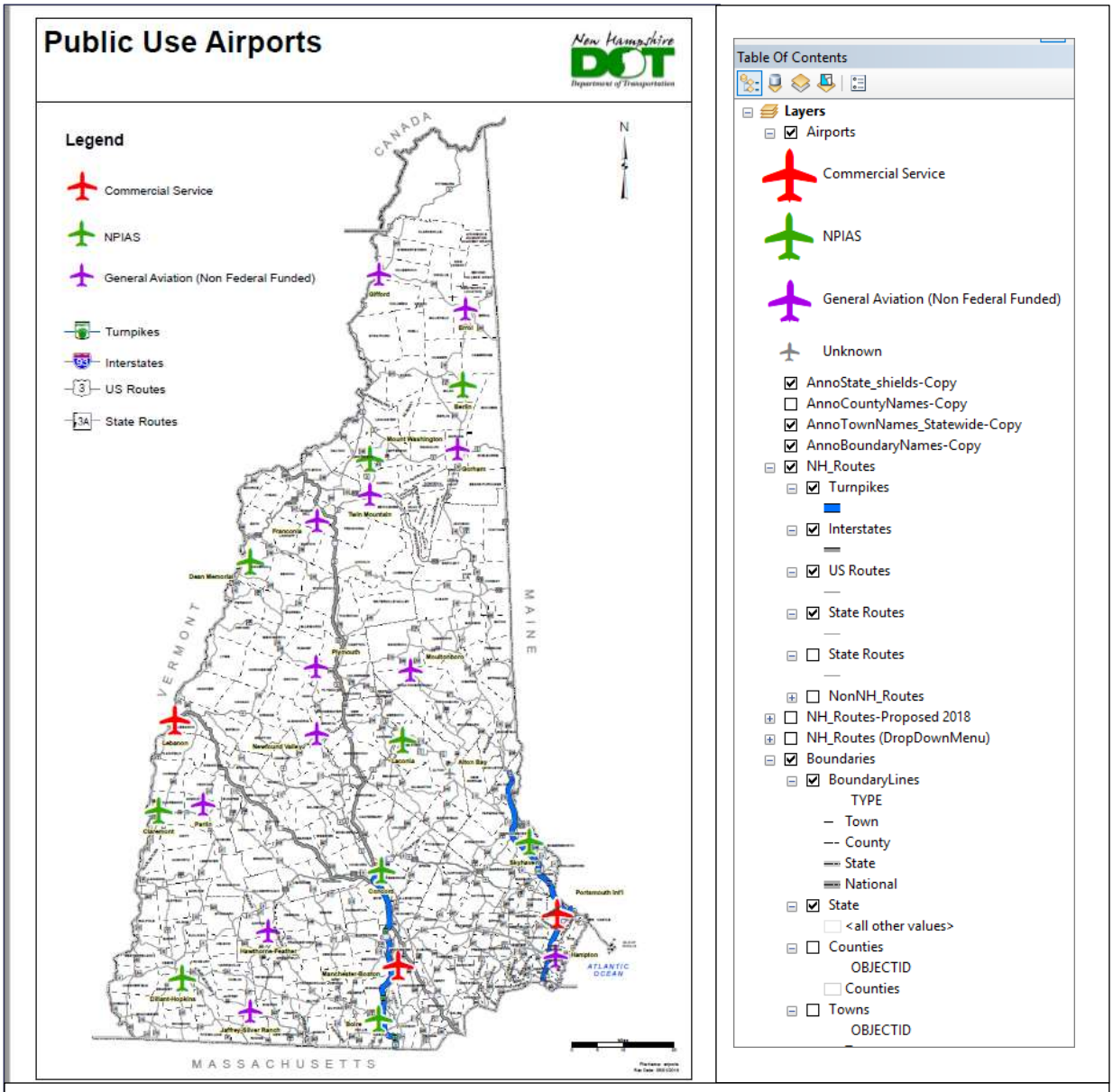
Zoom To: State Display **Map Scale:** 1:795,000 **Page setup**: 11x17

Source Data: N46USER.HPMS_2018_ROADS

Other GIS Layers:
Town Names
Boundary Names

AIR AND RAIL

AIRPORTS



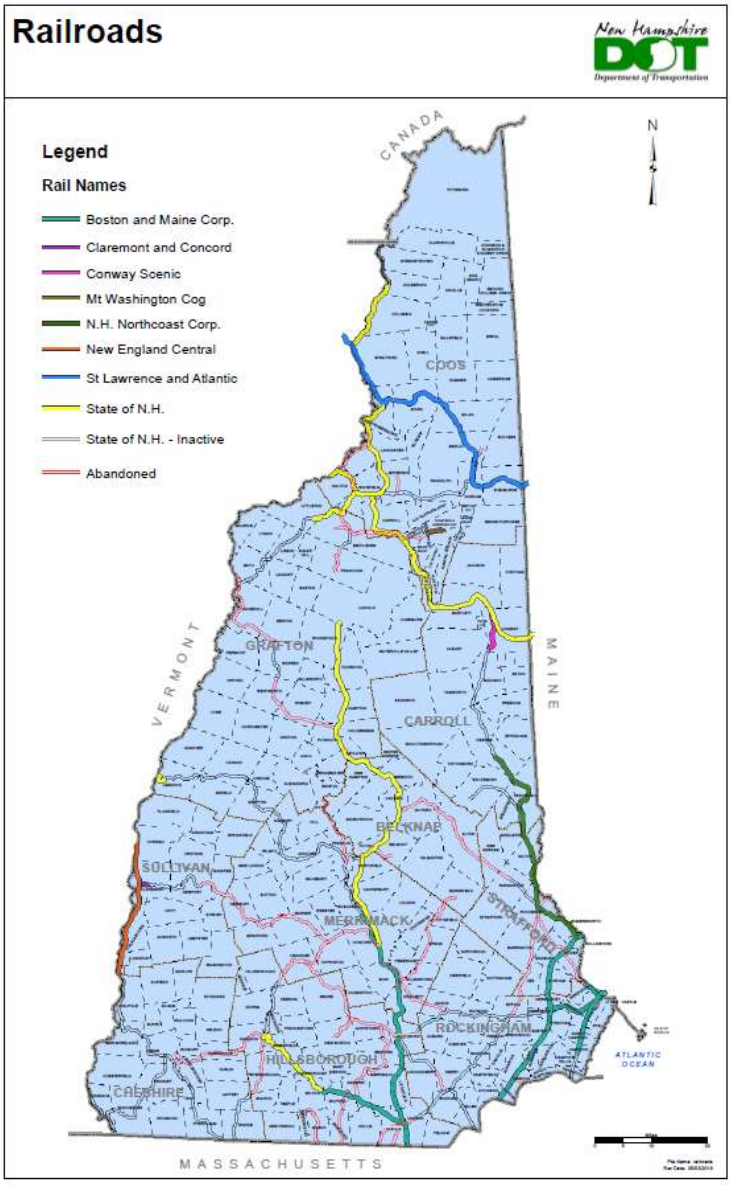
Filenames: airports .PDF .MXD .PNG

Zoom To: State Display **Map Scale:** 1:795,000 **Page setup**: 11x17

Source Data: N64AERONAUTICS.AIRPORTS_ALL

Other GIS Layers:
Town Names
Boundary Names

RAILROADS



Filenames: railroads .PDF .MXD .PNG

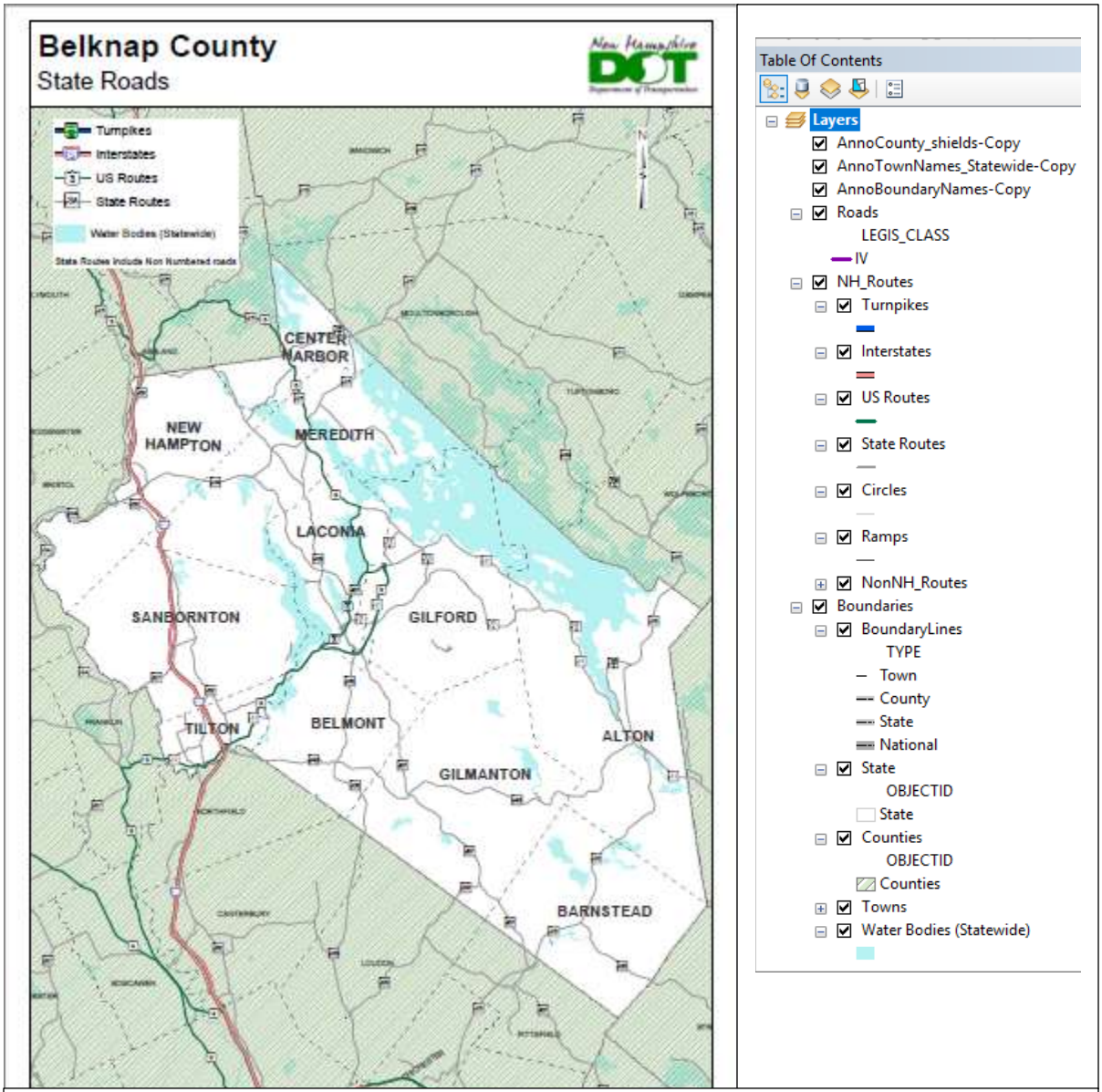
Zoom To: State Display **Map Scale:** 1:795,000 **Page setup**: 11x17

Source Data: N46USER.TRANSPORTATION_RAILS

Other GIS Layers:
Town Names
Boundary Names

COUNTY STATE ROADS

BELKNAP COUNTY STATE ROADS



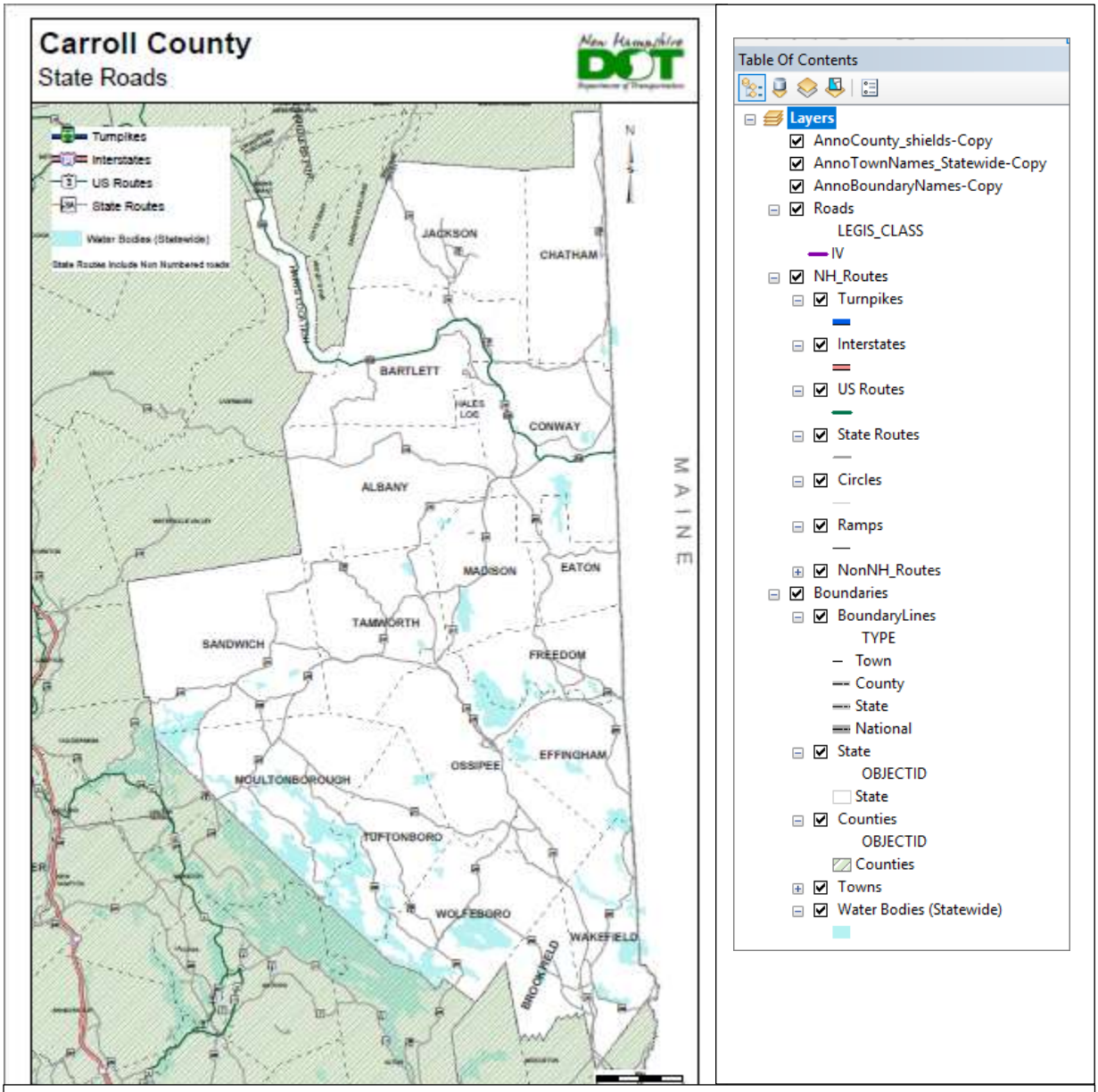
Filenames: Belknap-county-state-roads .PDF .MXD .PNG

Zoom To: County Display-Belknap

Map Scale: 1:182,000
Page setup: 11x17

Source Data: N46USER.HPMS_2018_ROADS

CARROLL COUNTY STATE ROADS



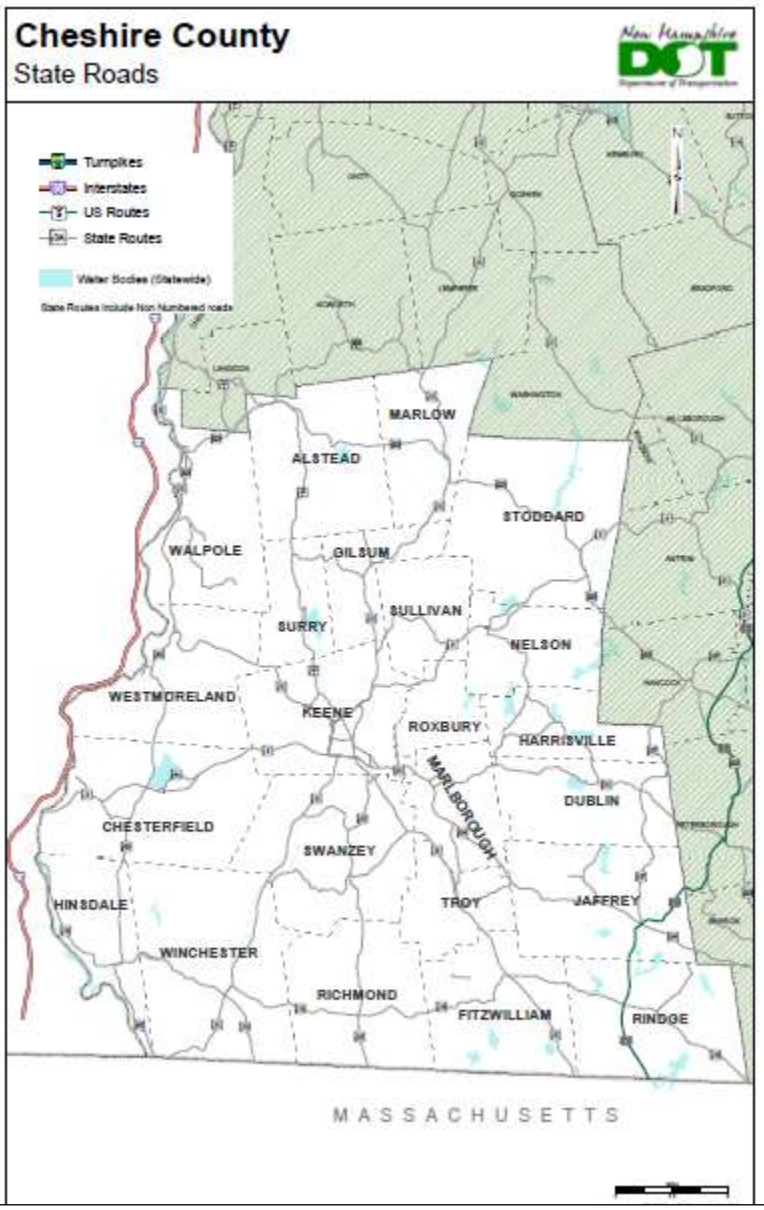
Filenames: carroll-county-state-roads .PDF .MXD .PNG

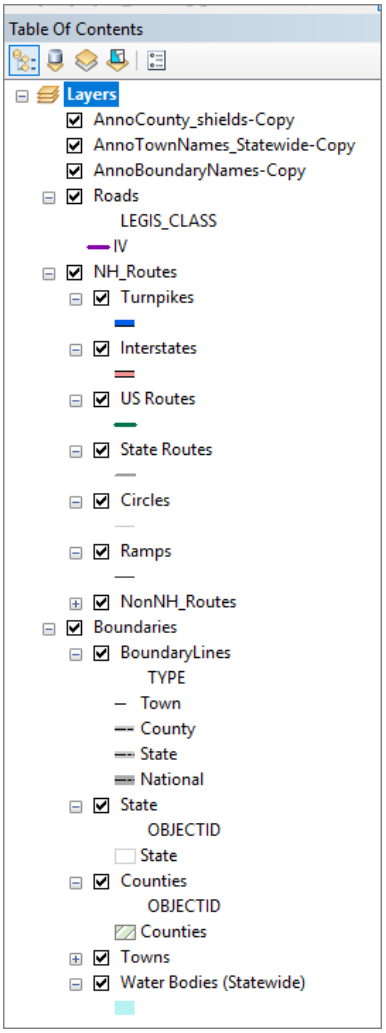
Zoom To: County Display-Carroll

Map Scale: 1:240,000
Page setup: 11x17

Source Data: N46USER.HPMS_2018_ROADS

CHESHIRE COUNTY STATE ROADS



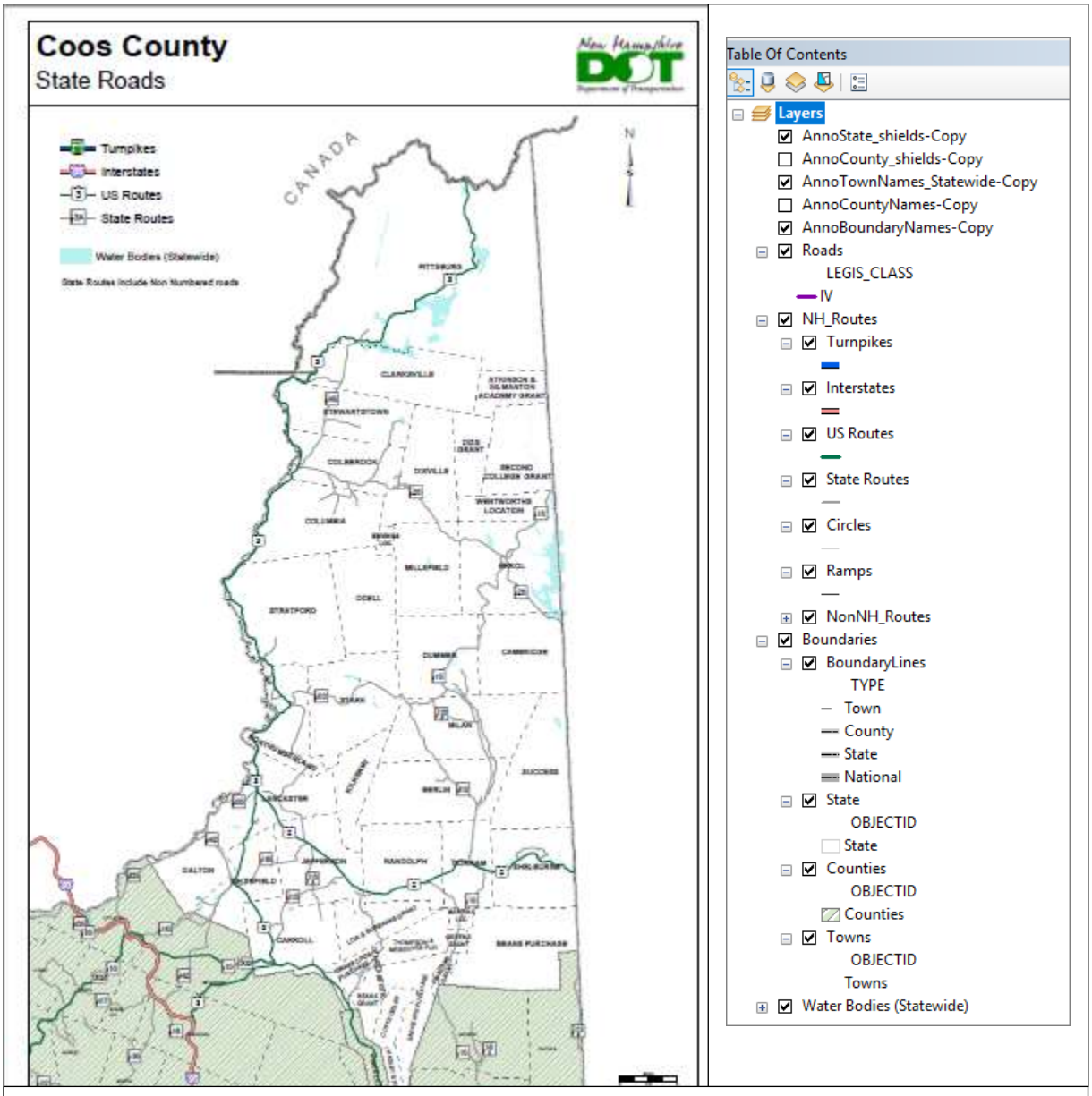


Filenames: cheshire-county-state-roads .PDF .MXD .PNG

Zoom To: County Display-Cheshire **Map Scale:** 1:207,000
Page setup: 11x17

Source Data: N46USER.HPMS_2018_ROADS

COOS COUNTY STATE ROADS



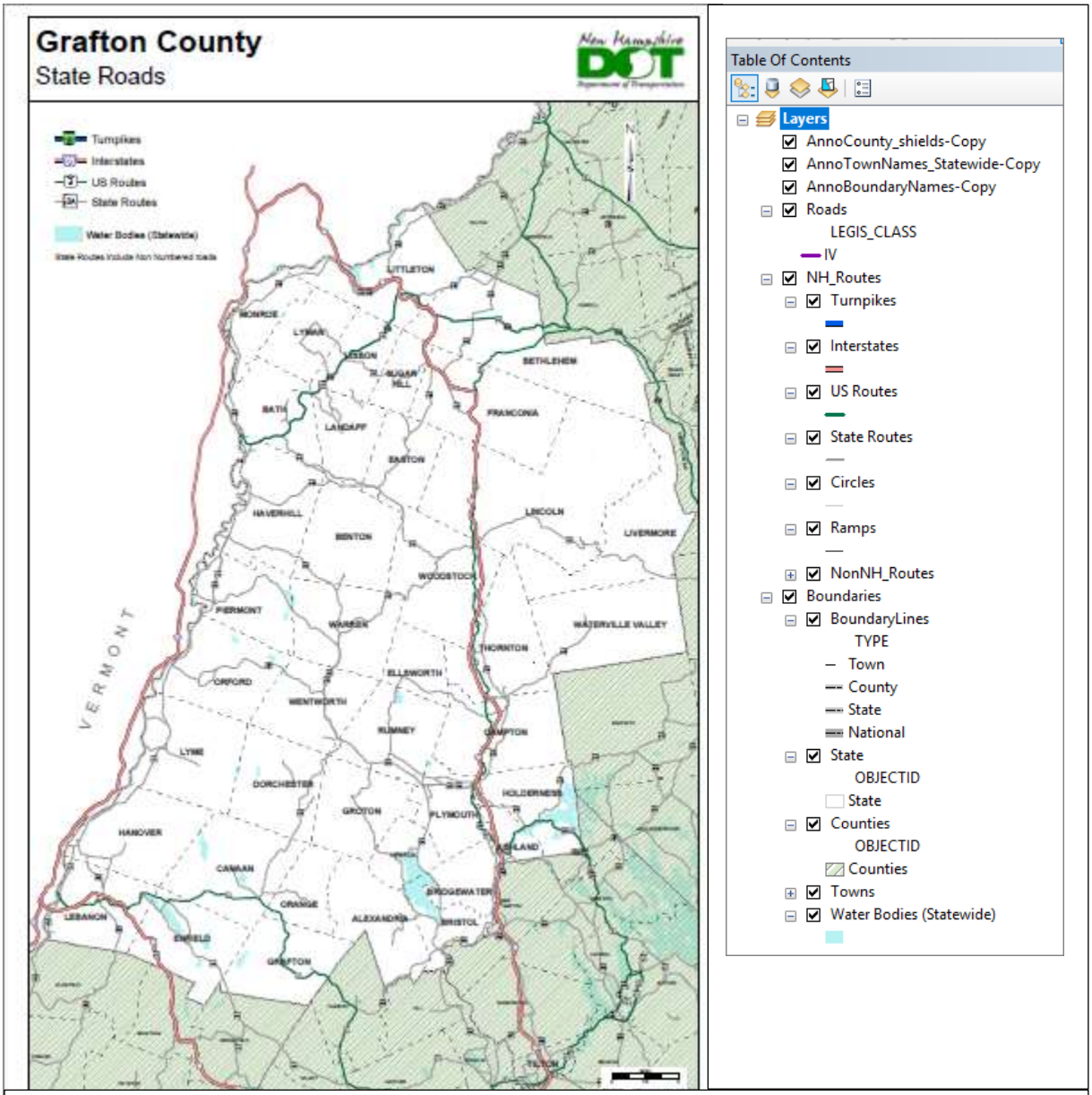
Filenames: coos-county-state-roads .PDF .MXD .PNG

Zoom To: County Display-Coos

Map Scale: 1:360,000
Page setup: 11x17

Source Data: N46USER.HPMS_2018_ROADS

GRAFTON COUNTY STATE ROADS



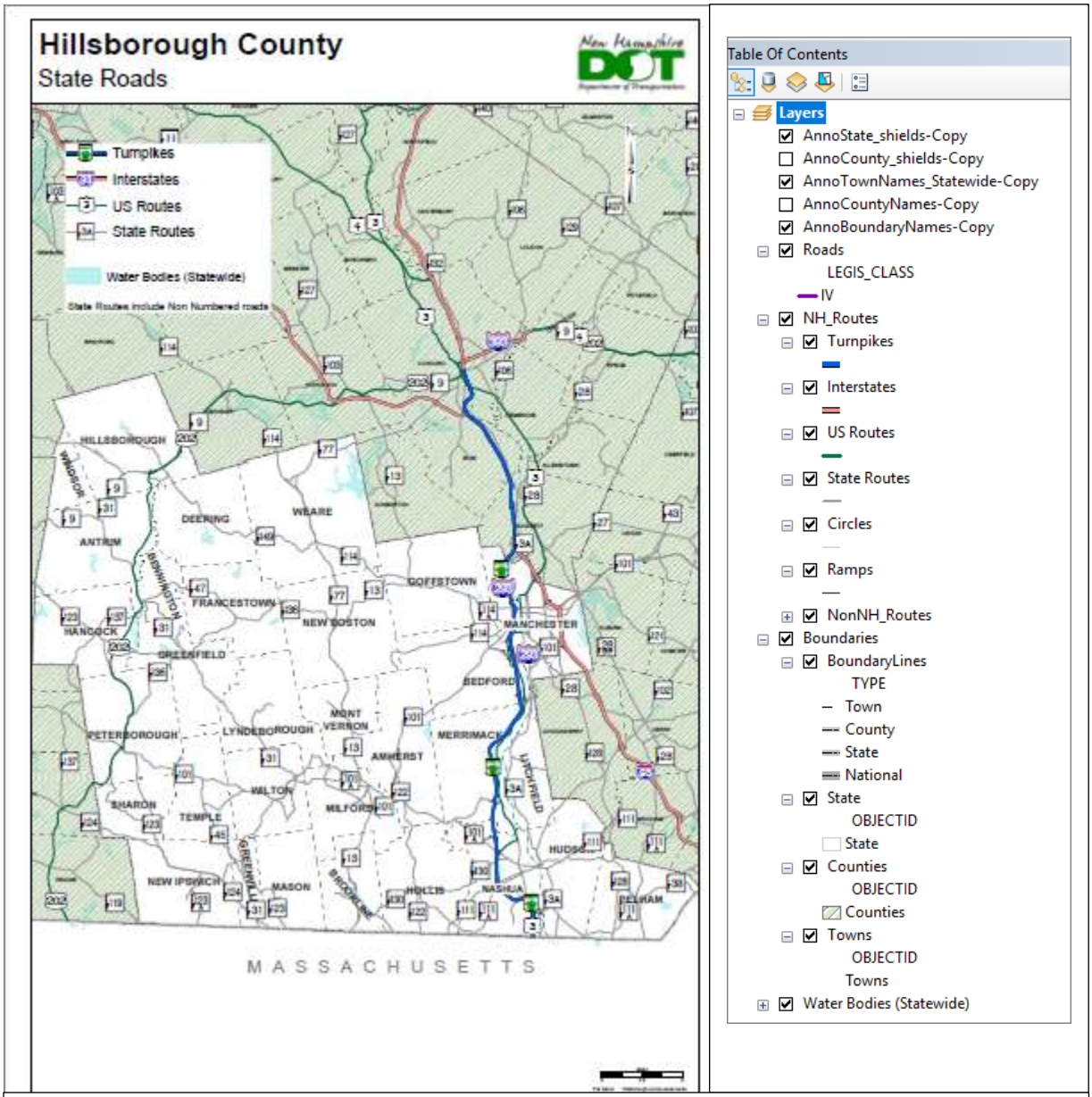
Filenames: grafton-county-state-roads .PDF .MXD .PNG

Zoom To: County Display-Grafton

Map Scale: 1:315,000
Page setup: 11x17

Source Data: N46USER.HPMS_2018_ROADS

HILLSBOROUGH COUNTY STATE ROADS



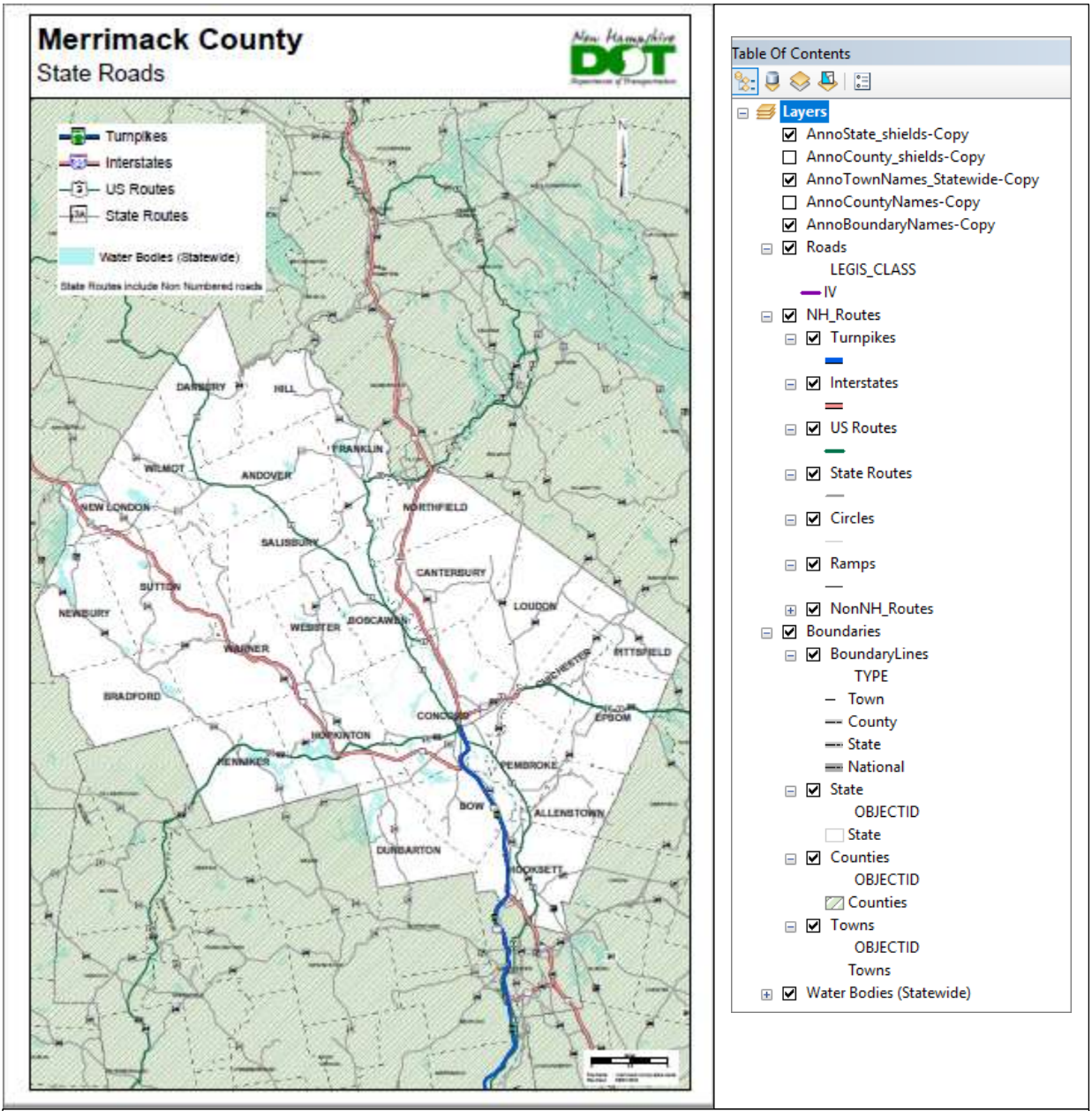
Filenames: hillsborough-county-state-roads .PDF .MXD .PNG

Zoom To: County Display-Hillsborough

Map Scale: 1:263,000
Page setup: 11x17

Source Data: N46USER.HPMS_2018_ROADS

MERRIMACK COUNTY STATE ROADS



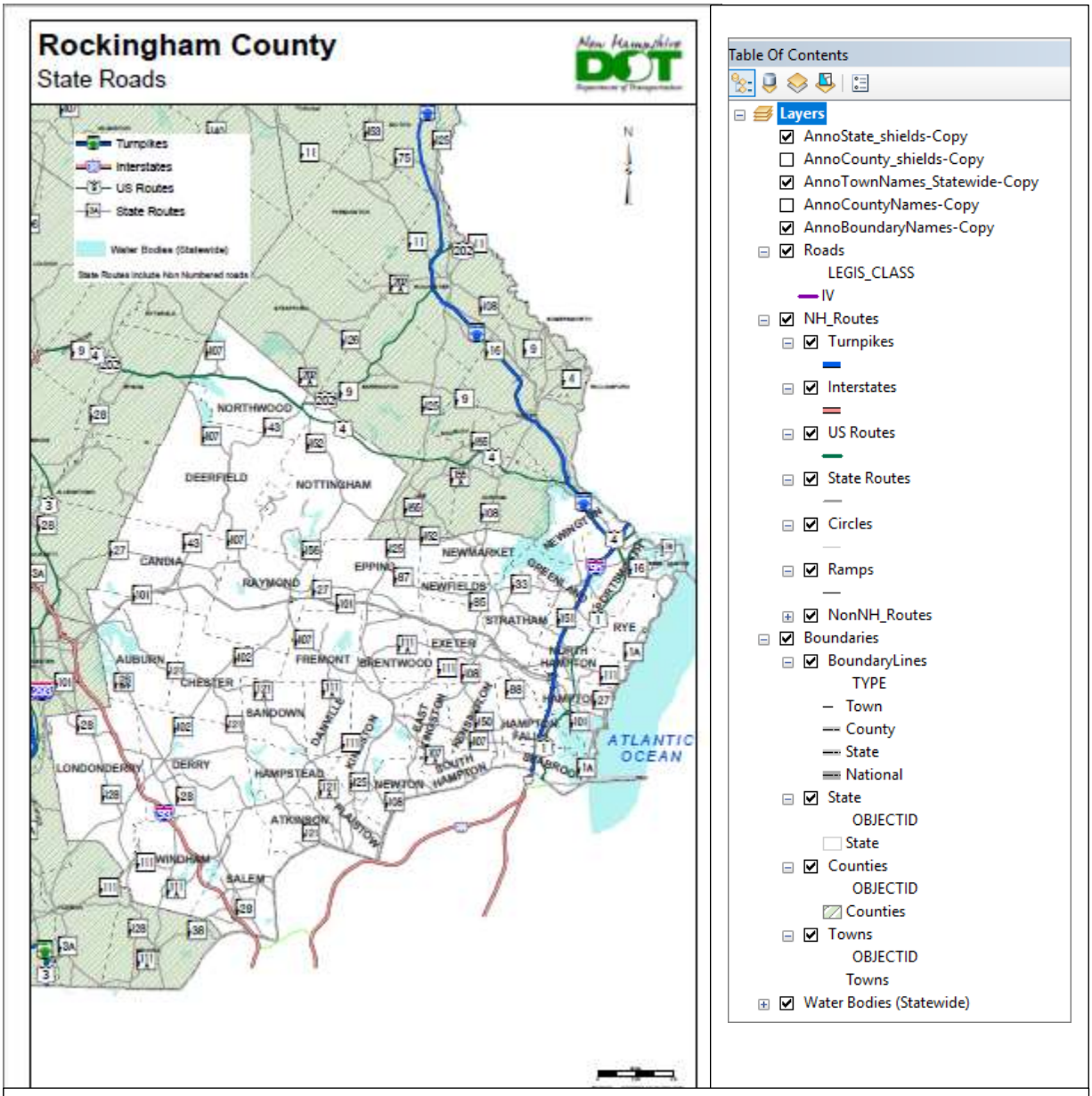
Filenames: merrimack-county-state-roads .PDF .MXD .PNG

Zoom To: County Display-Merrimack

Map Scale: 1:270,000
Page setup: 11x17

Source Data: N46USER.HPMS_2018_ROADS

ROCKINGHAM COUNTY STATE ROADS



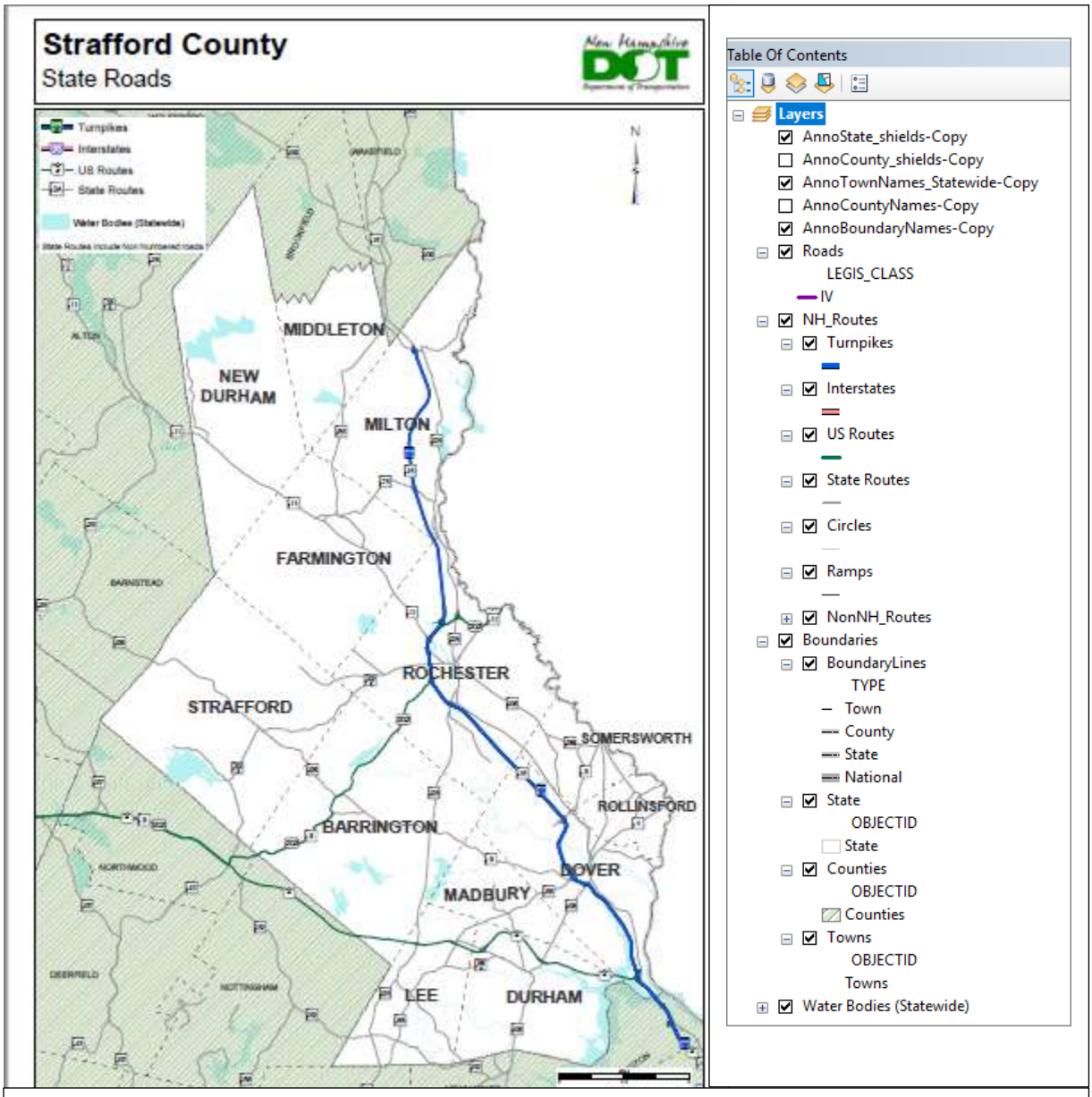
Filenames: rockingham-county-state-roads .PDF .MXD .PNG

Zoom To: County Display-Rockingham

Map Scale: 1:245,000
Page setup: 11x17

Source Data: N46USER.HPMS_2018_ROADS

STRAFFORD COUNTY STATE ROADS



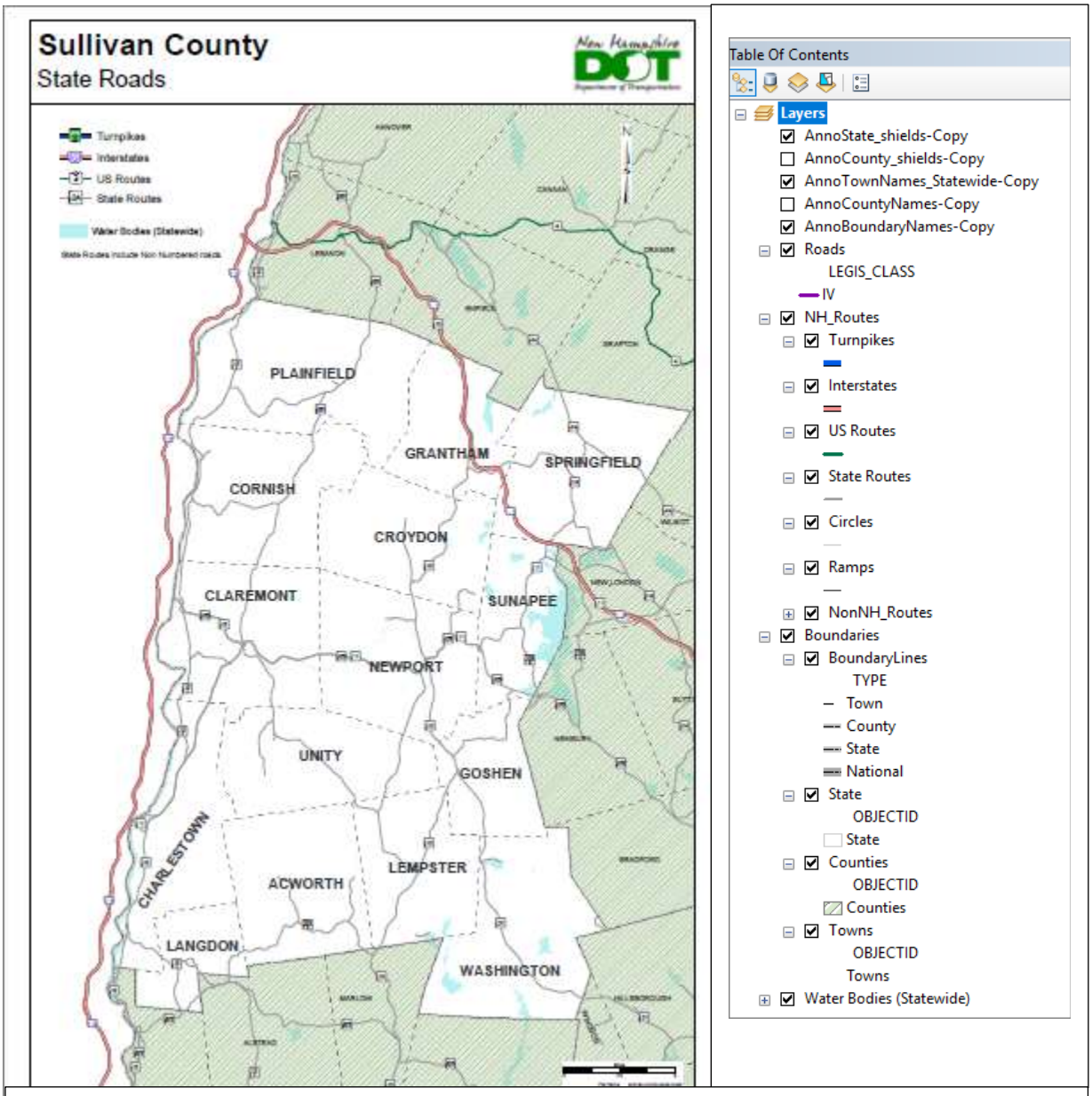
Filenames: strafford-county-state-roads. PDF .MXD .PNG

Zoom To: County Display-Strafford

Map Scale: 1:160,000
Page setup: 11x17

Source Data: N46USER.HPMS_2018_ROADS

SULLIVAN COUNTY STATE ROADS



Filenames: sullivan-county-state-roads .PDF .MXD .PNG

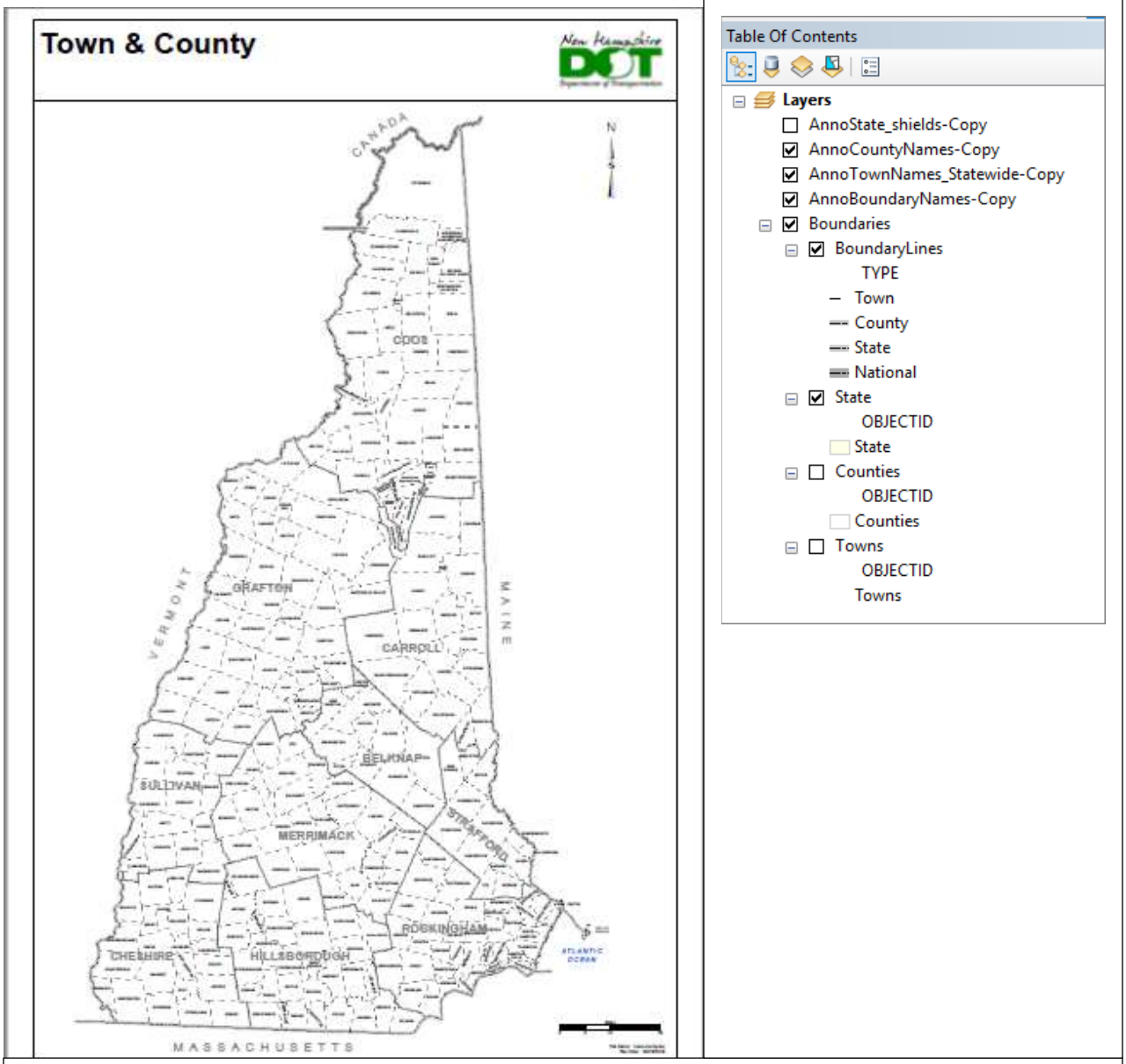
Zoom To: County Display-Sullivan

Map Scale: 1:187,000
Page setup: 11x17

Source Data: N46USER.HPMS_2018_ROADS

STATEWIDE BOUNDARIES

TOWN AND COUNTY (BLACK AND WHITE)



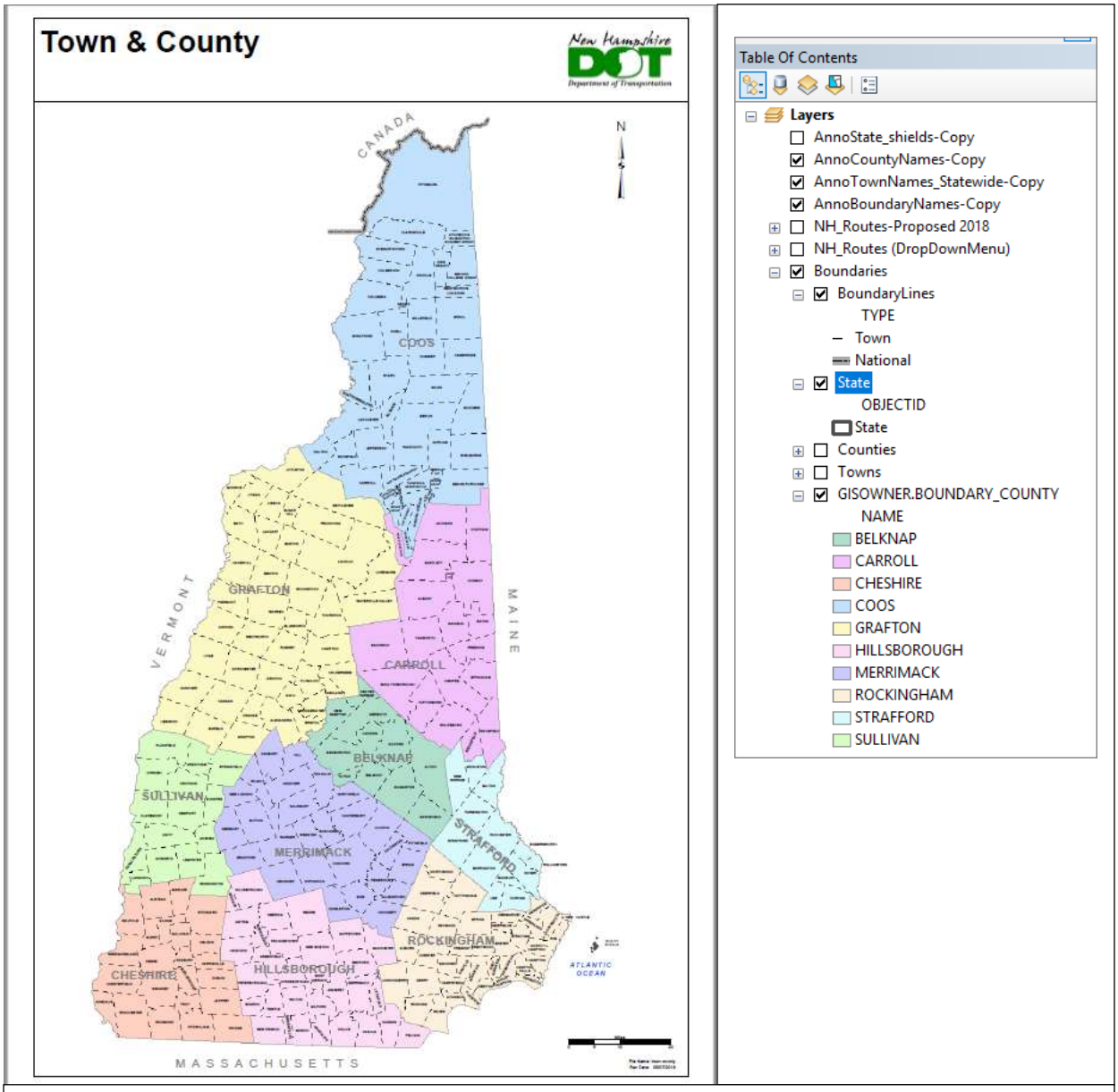
Filenames: town-county-bw .PDF, .MXD, .PNG

Zoom To: State Display **Map Scale:** 1:795,000 **Page setup**: 11x17

Source Data:

Other GIS Layers:
Town Names
County Names
Boundary Names

TOWN AND COUNTY



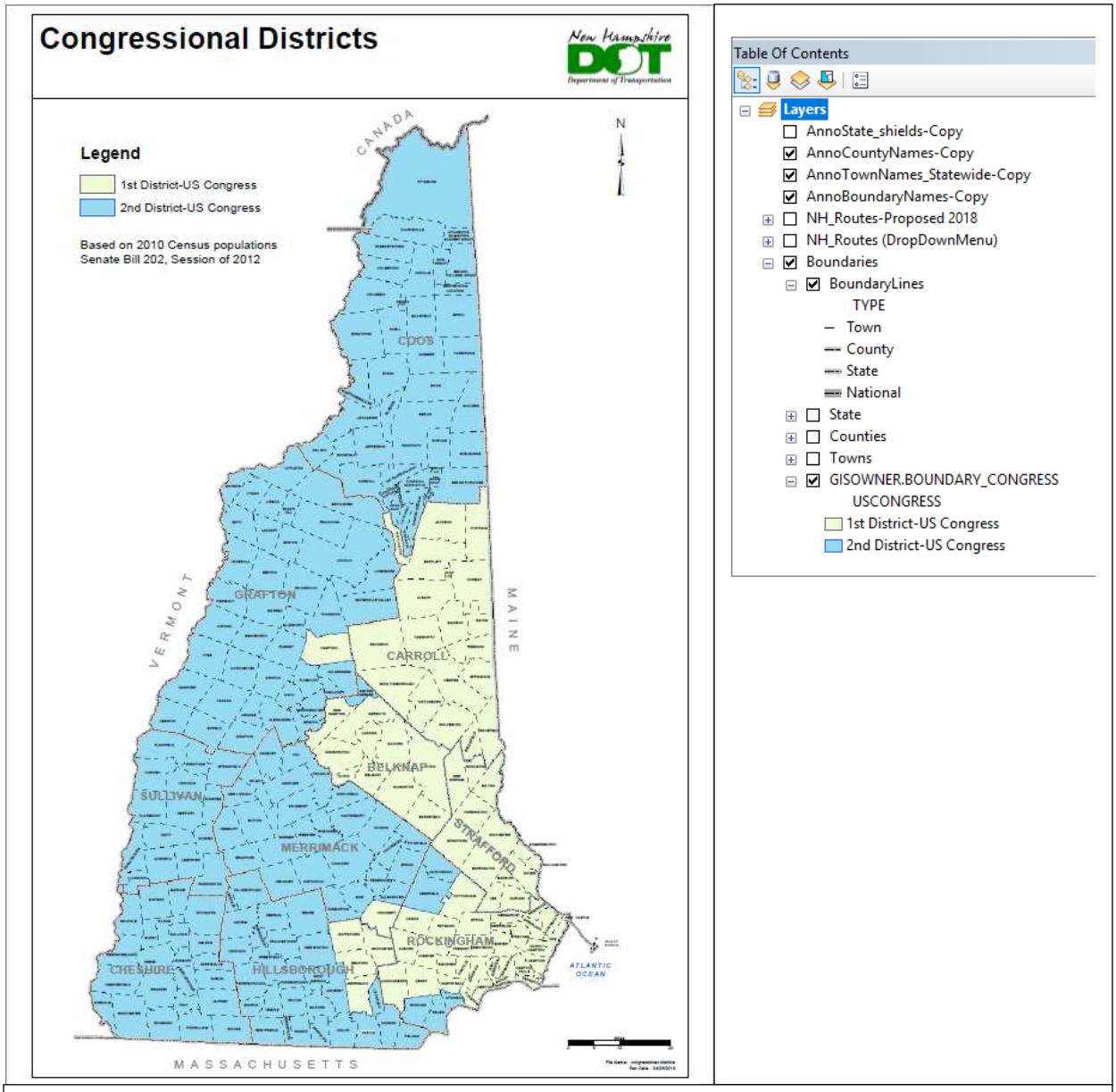
Filenames: town-county .PDF, .MXD .PNG

Zoom To: State Display **Map Scale:** 1:795,000 **Page setup**: 11x17

Source Data: GISOWNER.BOUNDARY_COUNTY

Other GIS Layers:
Town Names
County Names
Boundary Names

CONGRESSIONAL DISTRICTS



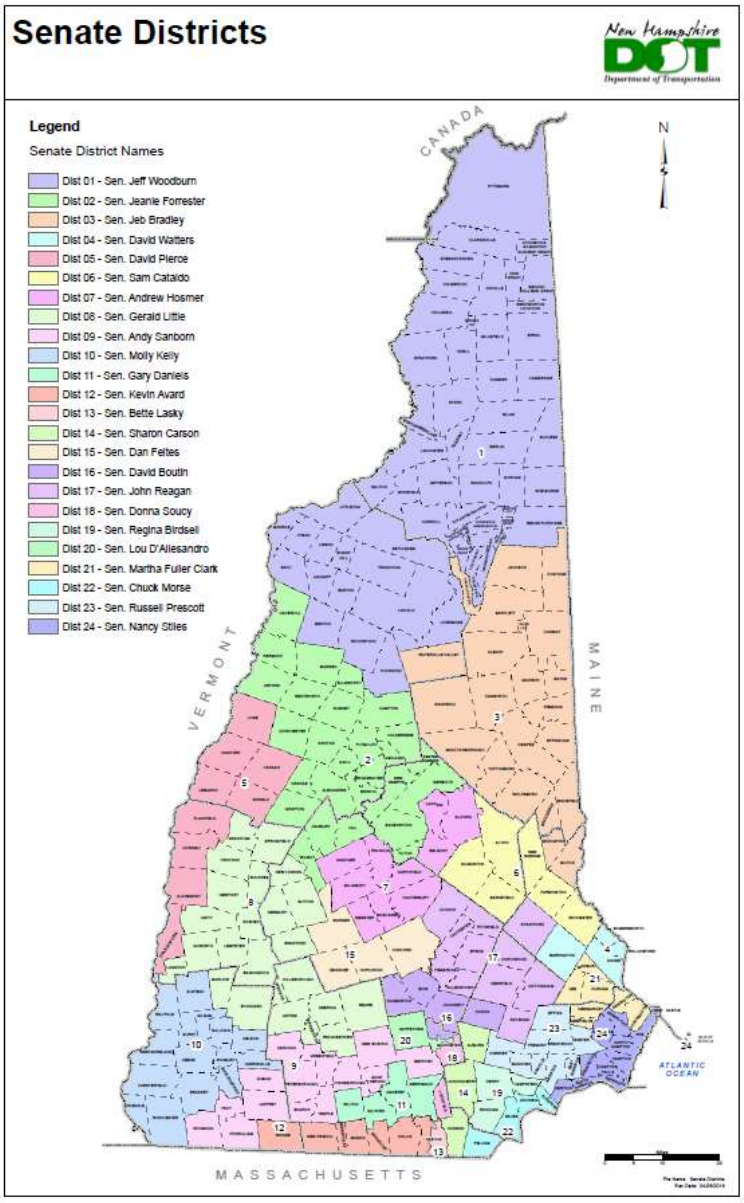
Filenames: congressional-districts .PDF .MXD .PNG

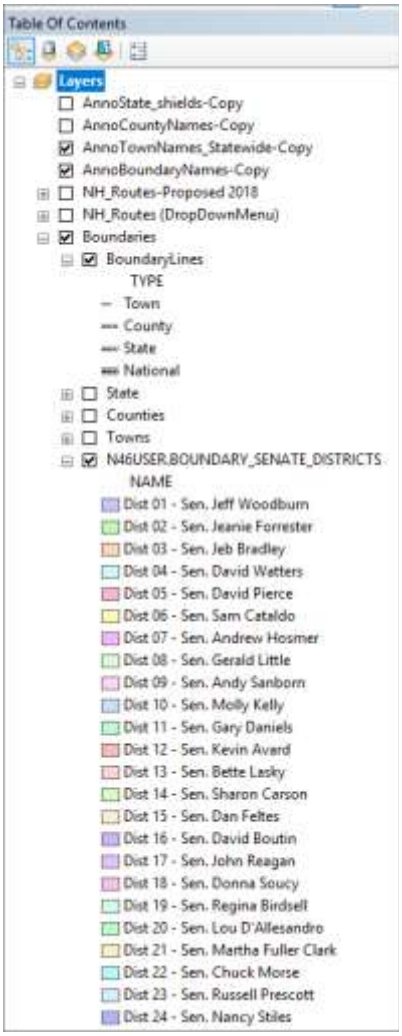
Zoom To: State Display **Map Scale:** 1:795,000 **Page setup**: 11x17

Source Data: GISOWNER.BOUNDARY_CONGRESS

Other GIS Layers:
Town Names
County Names
Boundary Names

SENATE DISTRICTS





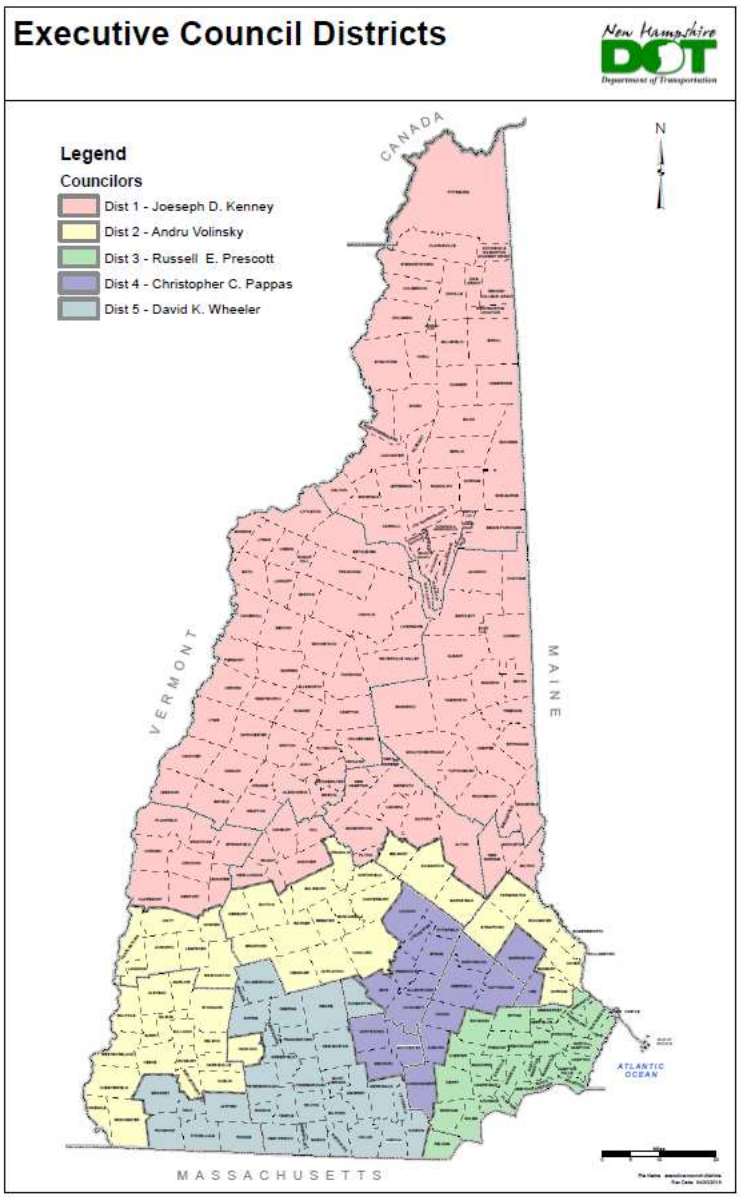
Filenames: senate-districts .PDF .MXD .PNG

Zoom To: State Display **Map Scale:** 1:795,000 **Page setup**: 11x17

Source Data: N46USER.BOUNDARY_SENATE_DISTRICTS

Other GIS Layers:
Town Names
Boundary Names

EXECUTIVE COUNCIL DISTRICTS



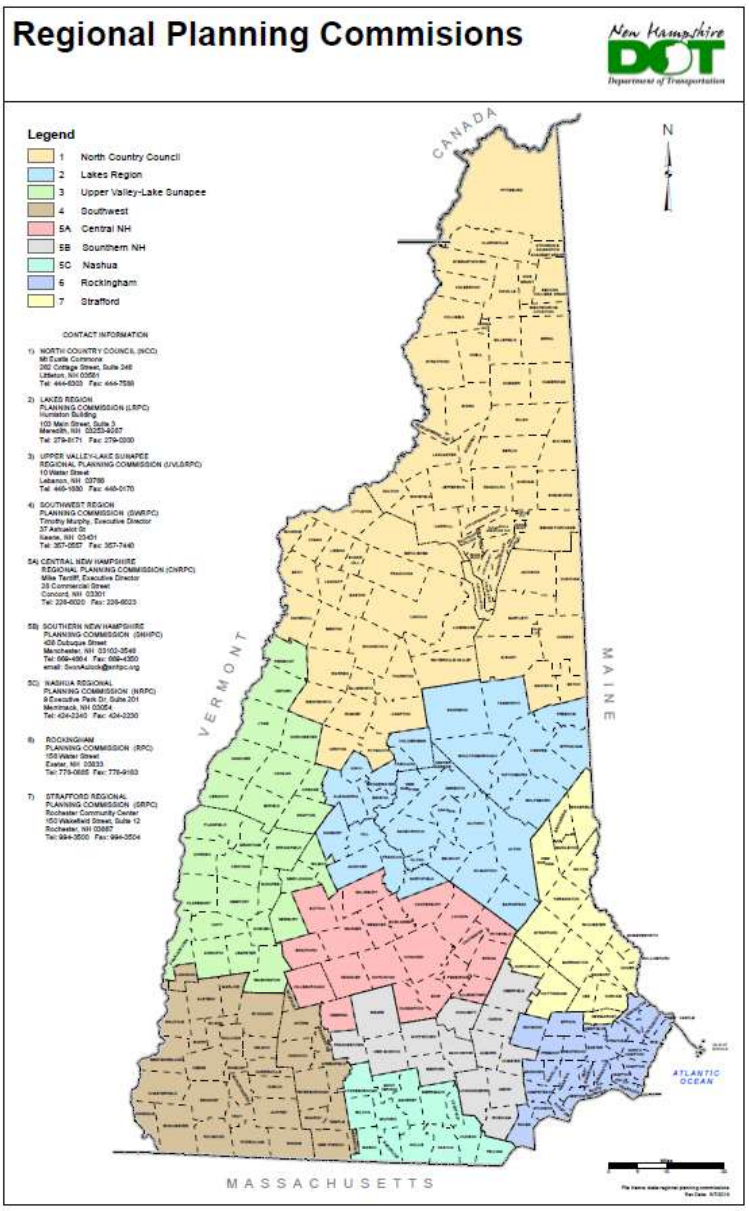
Filenames: executive-council-districts .PDF .MXD .PNG

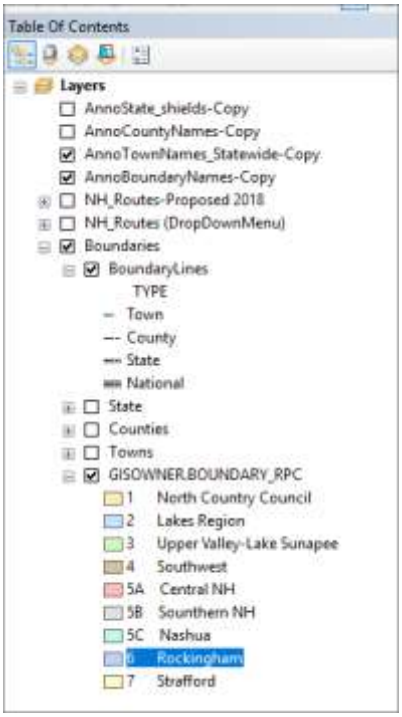
Zoom To: State Display **Map Scale:** 1:795,000 **Page setup**: 11x17

Source Data: GISOWNER.BOUNDARY_EXECUTIVE_COUNCIL

Other GIS Layers:
Town Names
Boundary Names

REGIONAL PLANNING COMMISSIONS





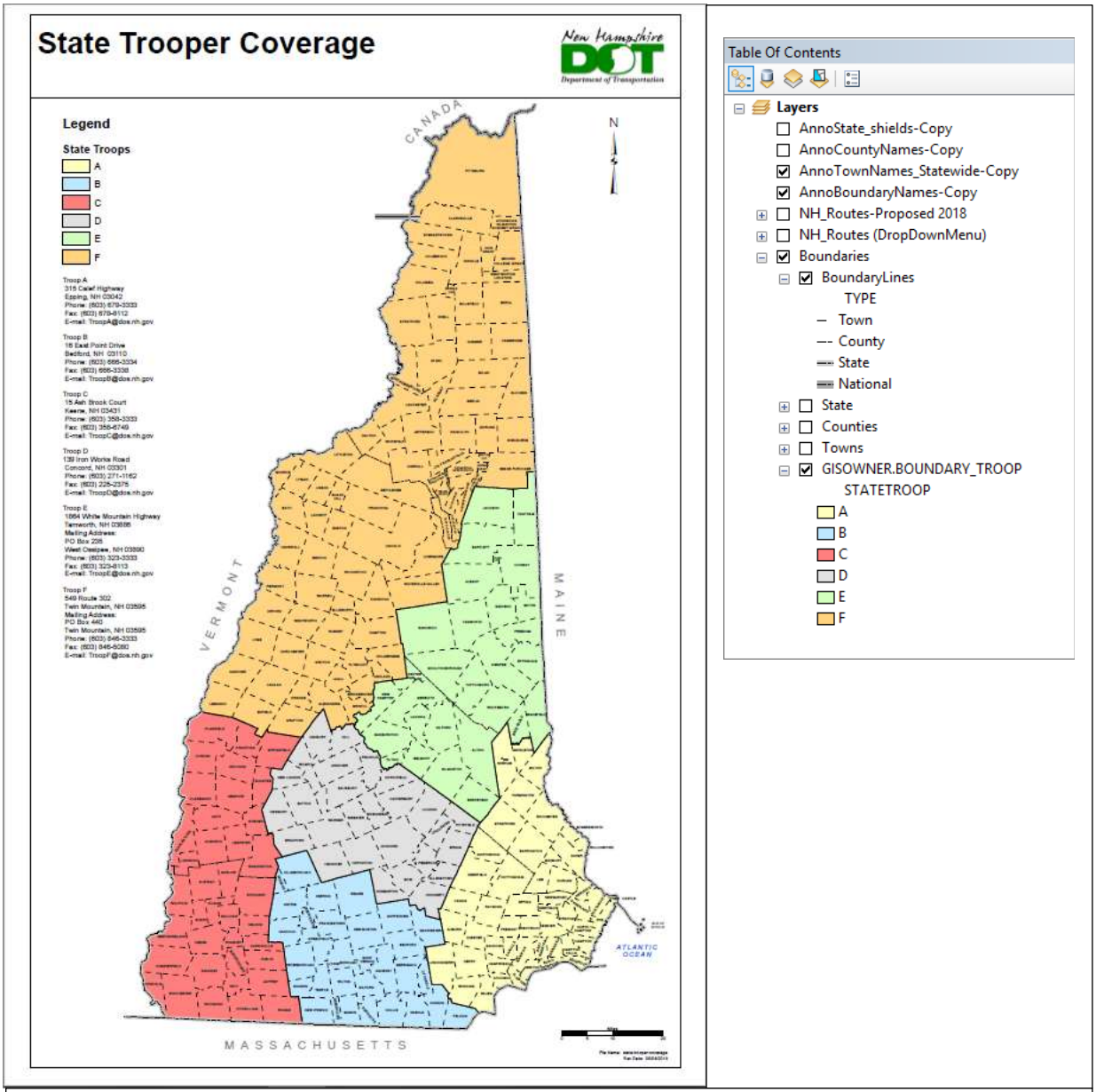
Filenames: regional-planning-commissions .PDF .MXD .PNG

Zoom To: State Display **Map Scale:** 1:795,000 **Page setup**: 11x17

Source Data: GISOWNER.BOUNDARY_RPC

Other GIS Layers:
Town Names
Boundary Names

STATE TROOPER COVERAGE



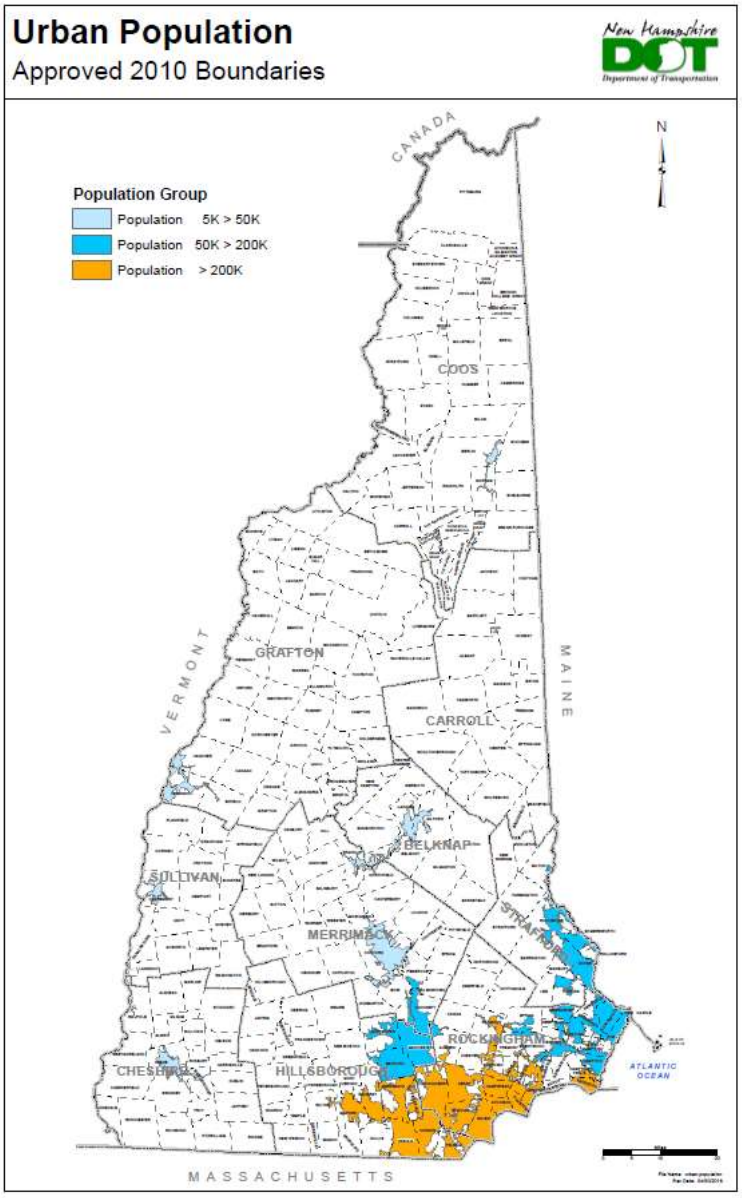
Filenames: state-trooper-coverage .PDF .MXD .PNG

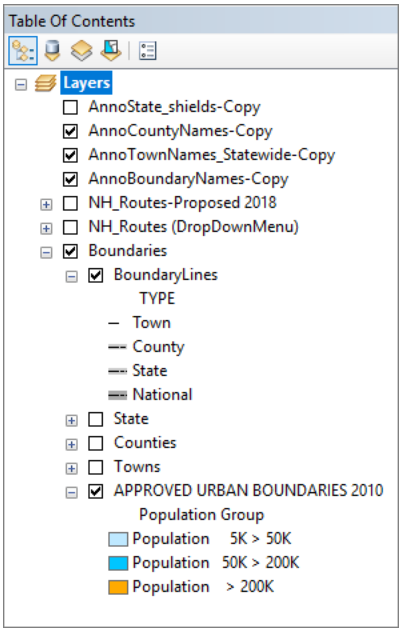
Zoom To: State Display **Map Scale:** 1:795,000 **Page setup**: 11x17

Source Data: GISOWNER.BOUNDARY_TROOPER

Other GIS Layers:
Town Names
Boundary Names

URBAN POPULATION





Filenames: urban-population .PDF .MXD .PNG

Zoom To: State Display **Map Scale:** 1:795,000 **Page setup**: 11x17

Source Data: APPROVED URBAN BOUNDARIES 2010

Other GIS Layers:
Town Names
County Names
Boundary Names

UPDATE PROCESS

The NHDOT Planning Bureau, GIS Section manages the GIS Data Catalog, including updating Maps and supporting documentation.

GIS Data Catalog
https://www.nh.gov/dot/org/projectdevelopment/planning/gis-data-catalog/index.htm

Yearly Updates

- Data Catalog Map updates will begin once the yearly snapshot data is taken in January. As of April 2018, there are 44 approved maps. The goal is to complete all map updates and get approval within four weeks of the yearly snapshot layer being created.
- In \GIS_Dev\Mxd_Maps, a new year folder will be created. For example, the 2018 Data Catalog Maps folder was copied to new folder 2019 Data Catalog Maps.
- Each Map (.MXD) will need to have its source data updated with new snapshot source data. Revision date in the map's lower right corner will need to be updated. Each map shall be exported to a PDF and printed for review by Planning Bureau administration. Each .MXD will be with the current year.
- All map PDFs will be approved before being published to the Data Catalog.
- Approved PDFs will be published to the GIS Data Catalog page via Contribute software.
- Any changes in the GIS Data Catalog will need to be approved by Planning Bureau Administration.

Change or New Content Requests

1. Change or New Content requests will be emailed to GISMaps@dot.nh.gov or to Planning Bureau Administrator.

2. Requestor should state specific update or new content to be added to the GIS Data Catalog web page.

3. GIS Staff will review change or new content request and then forward with detailed recommendations to Planning Bureau Administration.

4. Planning Bureau Administration will accept recommended changes or add additional details to work task.

5. GIS Staff will create necessary files and forward to Planning Bureau Administration for final approval.

6. GIS Staff will post new file to the GIS Data Catalog via Contribute software.

7. GIS Staff will email requestor and cc Planning Bureau Administration when the task is completed.