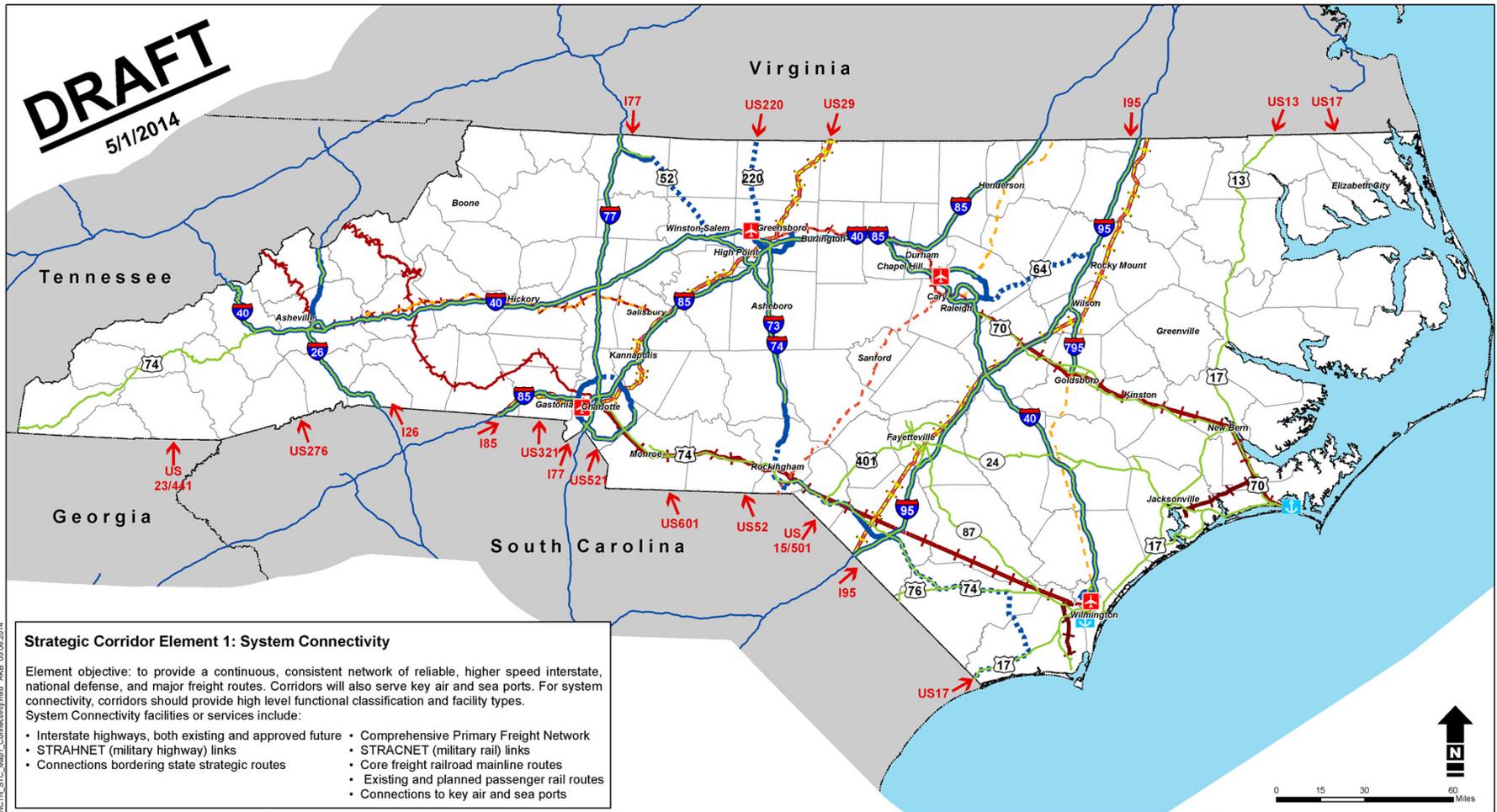


SYSTEM CONNECTIVITY

DRAFT
5/1/2014



Strategic Corridor Element 1: System Connectivity

Element objective: to provide a continuous, consistent network of reliable, higher speed interstate, national defense, and major freight routes. Corridors will also serve key air and sea ports. For system connectivity, corridors should provide high level functional classification and facility types. System Connectivity facilities or services include:

- Interstate highways, both existing and approved future
- STRAHNET (military highway) links
- Connections bordering state strategic routes
- Comprehensive Primary Freight Network
- STRACNET (military rail) links
- Core freight railroad mainline routes
- Existing and planned passenger rail routes
- Connections to key air and sea ports

NCTL_STC_Map_Connectivity.mxd ANB 05/09/2014



**NORTH CAROLINA
TRANSPORTATION
NETWORK**

Source: NCOneMap, NCDOT GIS, ESRI

Legend

Highway Elements

- Interstate Highways (Inside NC)
- Future Interstate Highways
- Interstate Highways (Outside NC)
- STRAHNET (Military Hwy)

Rail Elements

- STRACNET (Military Rail)
- Existing Passenger Rail
- Planned Passenger Rail
- Core Freight RR Mainline
- Secondary Freight RR Mainline

Other Transportation Elements

- NC Seaports
- NC Int'l or Major Freight Airports
- Connections from Out-of-State Strategic Corridors

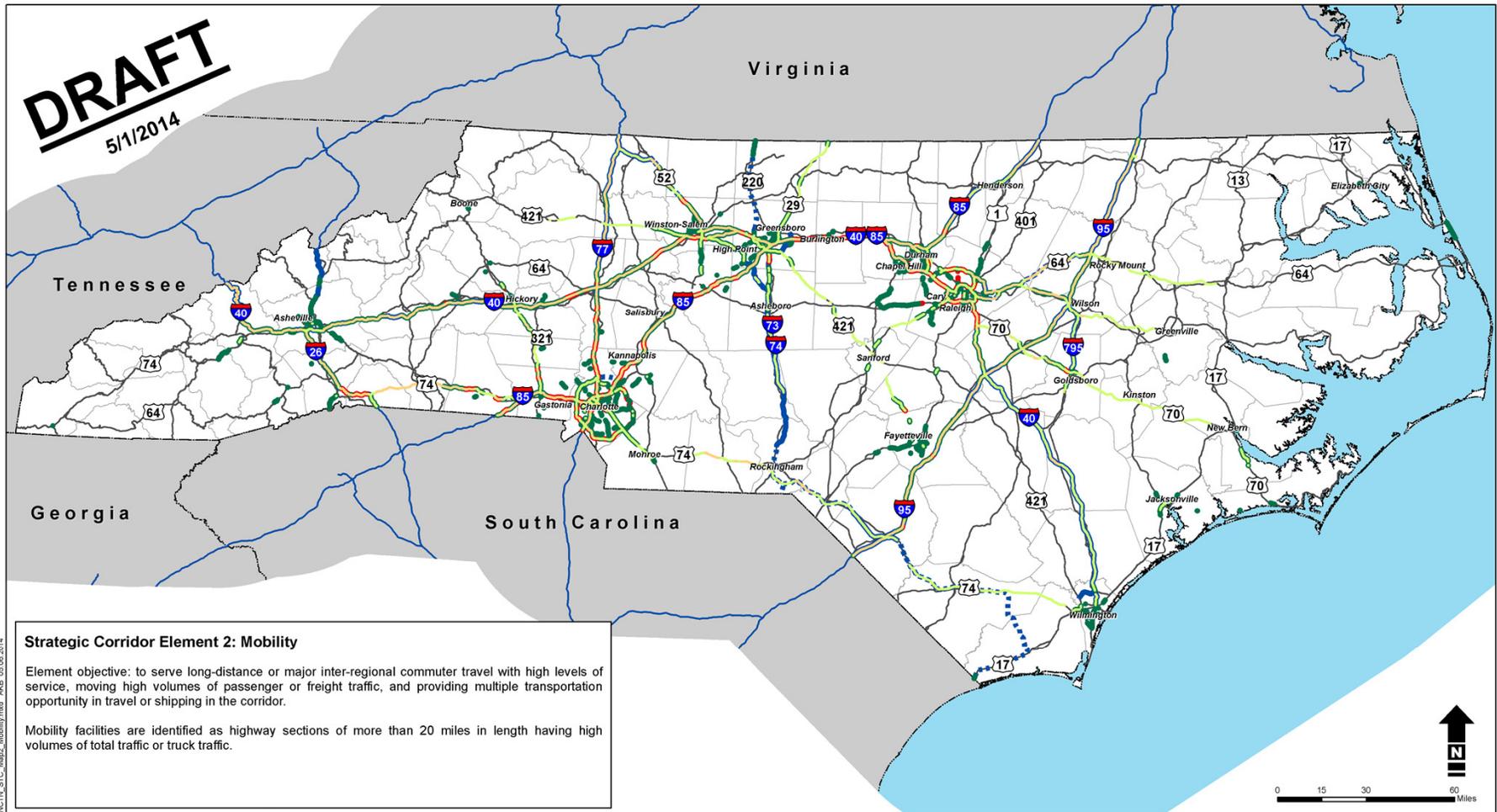
**STRATEGIC TRANSPORTATION
CORRIDORS**

SYSTEM CONNECTIVITY ELEMENTS

MAP 1

MOBILITY

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5/1/2014



NCTL_STC_Map2_Mobility.mxd AMB 05/02/2014



**NORTH CAROLINA
TRANSPORTATION
NETWORK**

Source: NCOneMap, NCDOT GIS, ESRI, NCSTM

Legend

High Volume Highways: Vehicles or Trucks per Day

- High Volume Traffic (Urban: >50k; Rural: >25k)
- Medium Volume Traffic (Urban: 30k-50k; Rural: 15k-25k)
- High Volume Truck (Urban: >5k; Rural: >3k)
- Medium Volume Truck (Urban: 2.5k-5k; Rural: 1.5k-3k)
- Interstate Highways (Inside NC)
- Interstate Highways (Outside NC)
- - - Future Interstate Highways
- Lower Volume US Routes

NOTE: Daily traffic volumes are Annual Average Daily Traffic from NC Statewide Travel Demand Model.

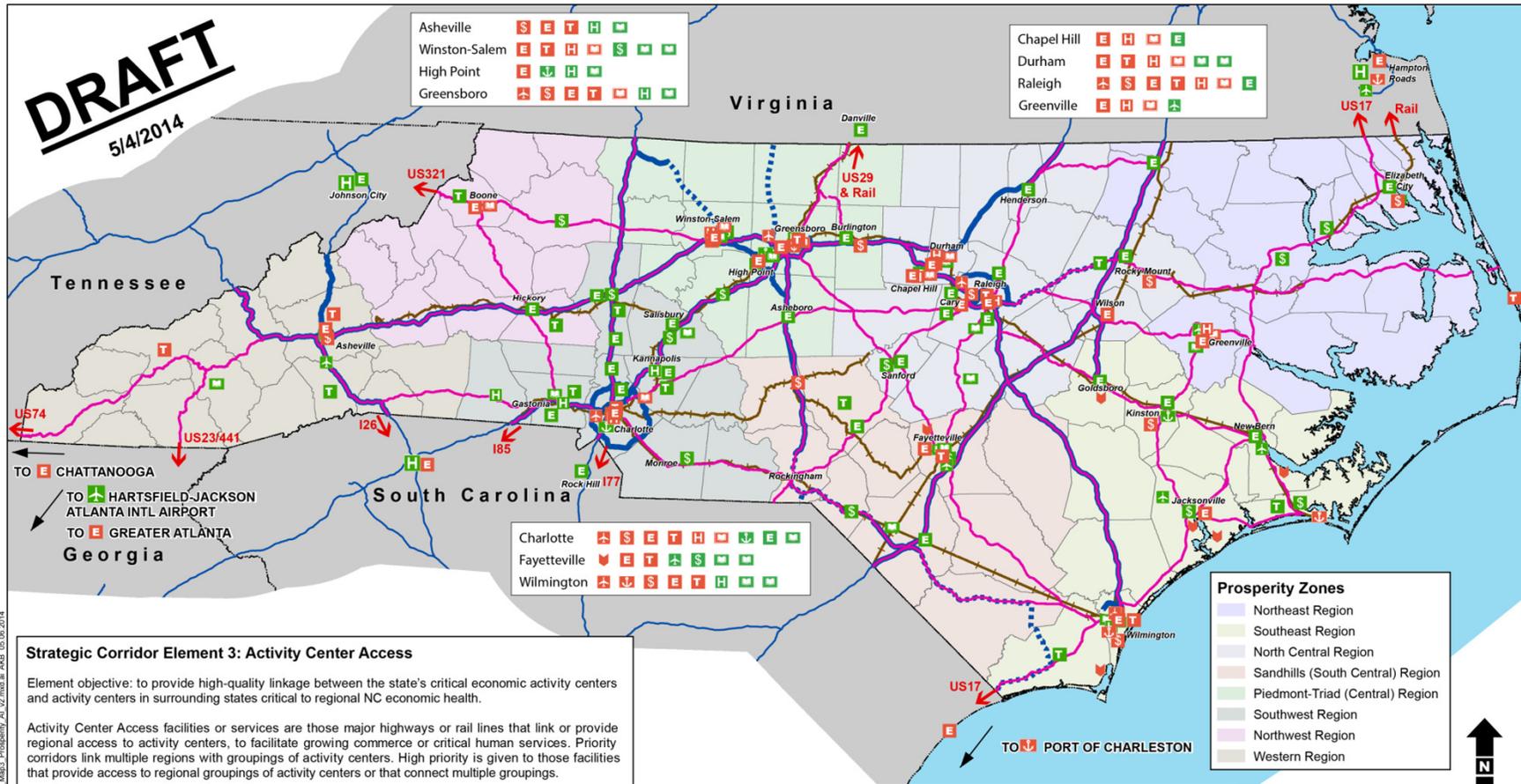
**STRATEGIC TRANSPORTATION
CORRIDORS**

HIGH VOLUME MOBILITY ELEMENTS



0 15 30 60 Miles

ACTIVITY CENTER ACCESS



Strategic Corridor Element 3: Activity Center Access

Element objective: to provide high-quality linkage between the state's critical economic activity centers and activity centers in surrounding states critical to regional NC economic health.

Activity Center Access facilities or services are those major highways or rail lines that link or provide regional access to activity centers, to facilitate growing commerce or critical human services. Priority corridors link multiple regions with groupings of activity centers. High priority is given to those facilities that provide access to regional groupings of activity centers or that connect multiple groupings.

- | | | |
|--|--|--|
| <p>Statewide Activity Centers</p> <ul style="list-style-type: none"> International Airports or Major Cargo Hubs Seaports Major Military Bases Logistics Villages Employment Centers Top 10 Travel/Tourism Destinations Level I Trauma Centers Major Research Universities | <p>Regional Activity Centers</p> <ul style="list-style-type: none"> Other Commercial Airports Inland Terminals Major Military Bases Potential Logistics Sites Employment Centers 2nd 10 Travel/Tourism Destinations Level II & Level III Trauma Centers Colleges & Major Community Colleges | <p>Activity Center Connections</p> <ul style="list-style-type: none"> Highway Rail Interstate Highways (Inside NC) Future Interstate Highways Interstate Highways (Outside NC) Connections to Out-of-State Activity Centers |
|--|--|--|

**NORTH CAROLINA
TRANSPORTATION
NETWORK**

Source: NCEMap, NCDOT, NCDOT GIS, ESRI, ACS

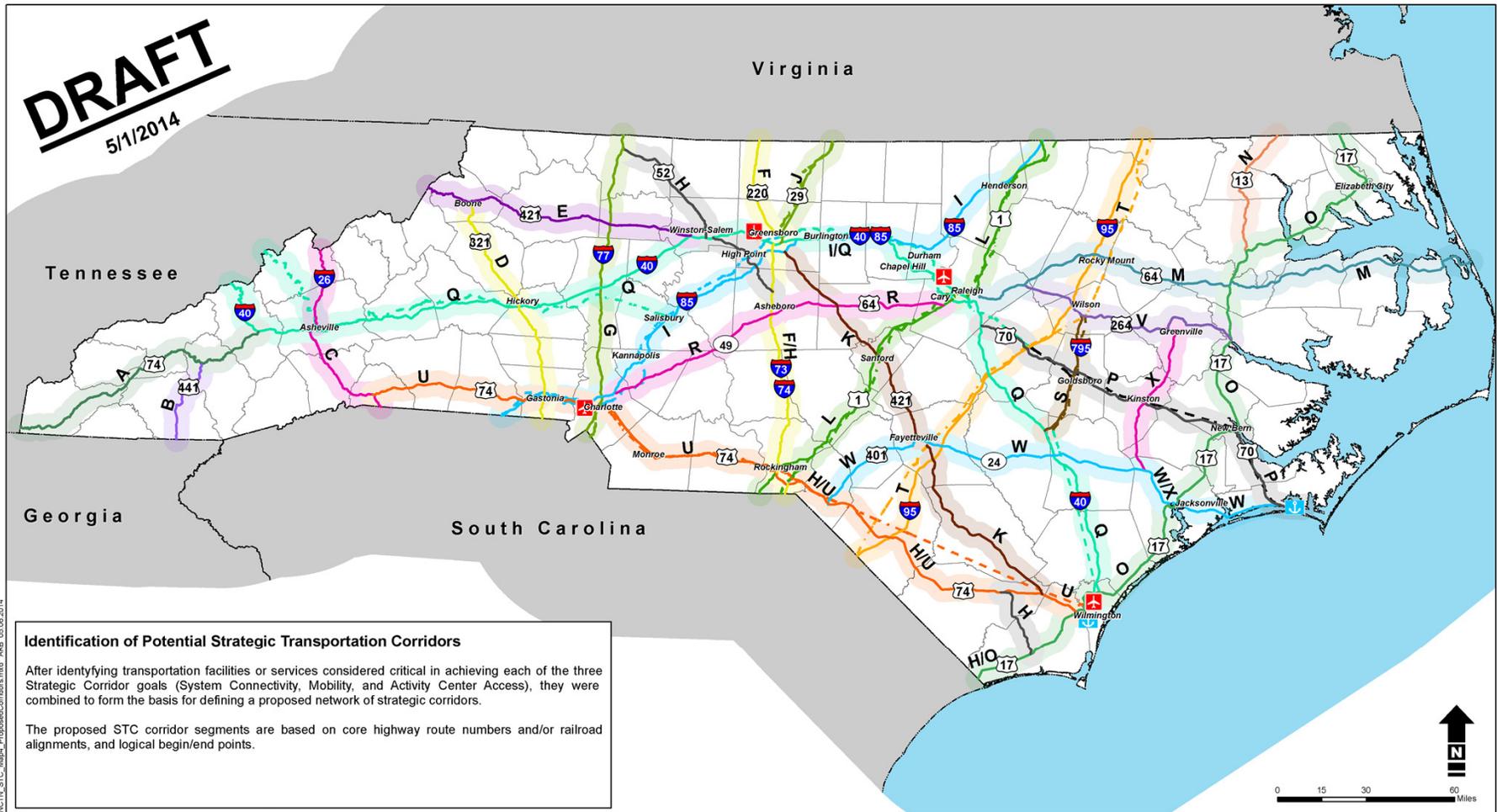
**STRATEGIC TRANSPORTATION
CORRIDORS**

**ECONOMIC PROSPERITY ELEMENTS
(ACTIVITY CENTER LINKAGE)**

MAP 3

END-TO-END CORRIDORS

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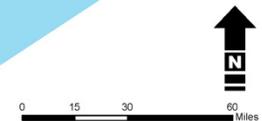


Identification of Potential Strategic Transportation Corridors

After identifying transportation facilities or services considered critical in achieving each of the three Strategic Corridor goals (System Connectivity, Mobility, and Activity Center Access), they were combined to form the basis for defining a proposed network of strategic corridors.

The proposed STC corridor segments are based on core highway route numbers and/or railroad alignments, and logical begin/end points.

NCTL STC_Maps_ProposedCorridors.mxd ANB 05/08/2014



**NORTH CAROLINA
TRANSPORTATION
NETWORK**

Source: NCOneMap, NCDOT GIS, ESRI

Proposed STCs (solid = highway; dashed = rail)			
A (US74)	F (I73/Future I73)	K (US421/NC87)	P (US70)
B (US441)	G (I77)	L (US1)	Q (I40)
C (I26/US23)	H (I74/Future I74)	M (I495/US64)	R (US64/NC49)
D (US321)	I (I85)	N (US13)	S (I795/US117)
E (US421W)	J (US29N)	O (US17)	T (I95)
			U (US74W/US74E/Future I74)
			V (US264)
			W (US401/NC24/US258)
			X (US258/NC11)

**STRATEGIC TRANSPORTATION
CORRIDORS**

- NC Seaports
- NC Int'l or Major Freight Airports

PROPOSED CORRIDORS

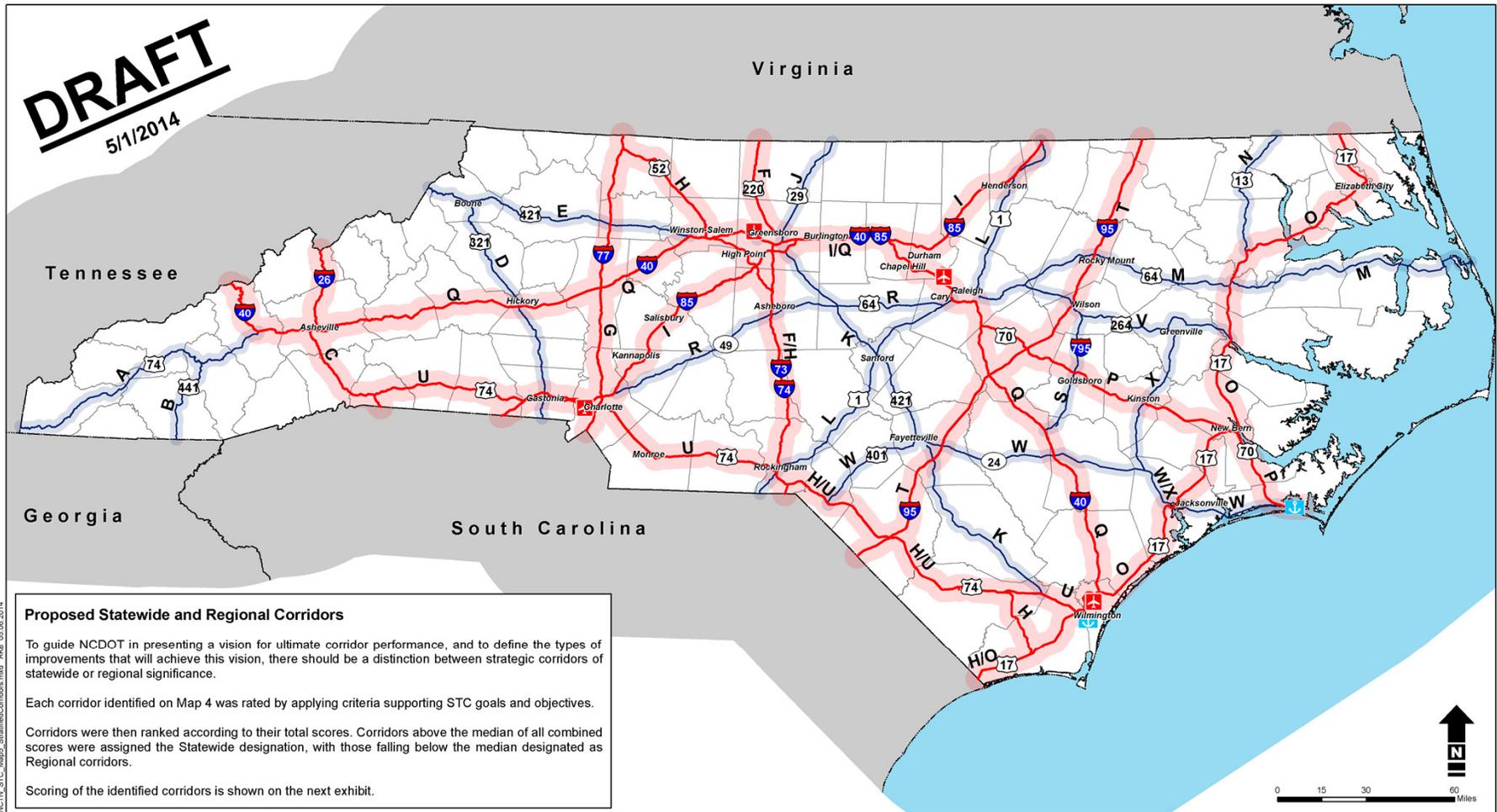
SCORING SHEET

Corridors				Corridor Scoring			TOTAL CORRIDOR SCORE
ID	Name	Begin Point	End Point	System Connectivity	Mobility	Economic Prosperity	
I	I-85	SC State Line	VA State Line	10	8	8	26
Q	I-40	TN State Line	Wilmington	7	9	10	26
T	I-95	SC State Line	VA State Line	9	9	7	25
U	US 74 W/US 74 E /Future I-74	I-26	Wilmington	7	6	7	20
G	I-77	SC State Line	VA State Line	4	7	7	18
H	I-74/Future I-74	I-77	SC State Line (Brunswick Co.)	4	6	8	18
C	I-26/US 23	GA State Line	TN State Line	4	6	7	17
P	US 70	I-40 (Raleigh)	Morehead City Port	3	3	9	15
O	US 17	SC State Line	VA State Line	4	2	8	14
F	I-73/Future I-73	SC State Line	VA State Line	4	4	6	14
M	I-495/US 64	I-40 (Raleigh)	Outer Banks	4	3	6	13
K	US 421/NC 87	I-85 (Greensboro)	US 74	5	3	5	13
L	US 1	SC State Line	VA State Line	3	3	6	12
W	US 401/NC 24/US 258	I-74	US 70 (Morehead City)	4	2	6	12
J	US 29 N	VA State Line	Greensboro	6	4	2	12
S	I-795/US 117	I-95 (Wilson)	I-40	3	4	4	11
V	US 264	US 64	US 17 (Washington)	1	3	7	11
D	US 321	SC State Line	TN State Line	2	3	6	11
A	US 74	TN State Line	I-26 (Asheville)	4	1	6	11
R	US 64/NC 49	I-40 (Raleigh)	I-85 (Charlotte)	4	1	5	10
X	US 258/NC 11	US 17 (Jacksonville)	US 264 (Greenville)	2	1	5	8
E	US 421 W	TN State Line	I-40 (Winston-Salem)	2	1	5	8
B	US 441	GA State Line	US 74	2	1	4	7
N	US 13	US 17	VA State Line	4	1	2	7

Statewide Corridors
Regional Corridors

STRATIFIED CORRIDORS

DRAFT
5/1/2014



Proposed Statewide and Regional Corridors

To guide NCDOT in presenting a vision for ultimate corridor performance, and to define the types of improvements that will achieve this vision, there should be a distinction between strategic corridors of statewide or regional significance.

Each corridor identified on Map 4 was rated by applying criteria supporting STC goals and objectives.

Corridors were then ranked according to their total scores. Corridors above the median of all combined scores were assigned the Statewide designation, with those falling below the median designated as Regional corridors.

Scoring of the identified corridors is shown on the next exhibit.

NCTL_STC_Map5_StratifiedCorridors.mxd ANG 05/06/2014



**NORTH CAROLINA
TRANSPORTATION
NETWORK**

Source: NCOneMap, NCDOT GIS, ESRI

Legend

- Statewide Proposed STCs
- Regional Proposed STCs

- NC Seaports
- NC Int'l or Major Freight Airports

**STRATEGIC TRANSPORTATION
CORRIDORS**

STRATIFIED CORRIDORS

MAP 5