CORRIDOR PUBLIC HEARING MAP

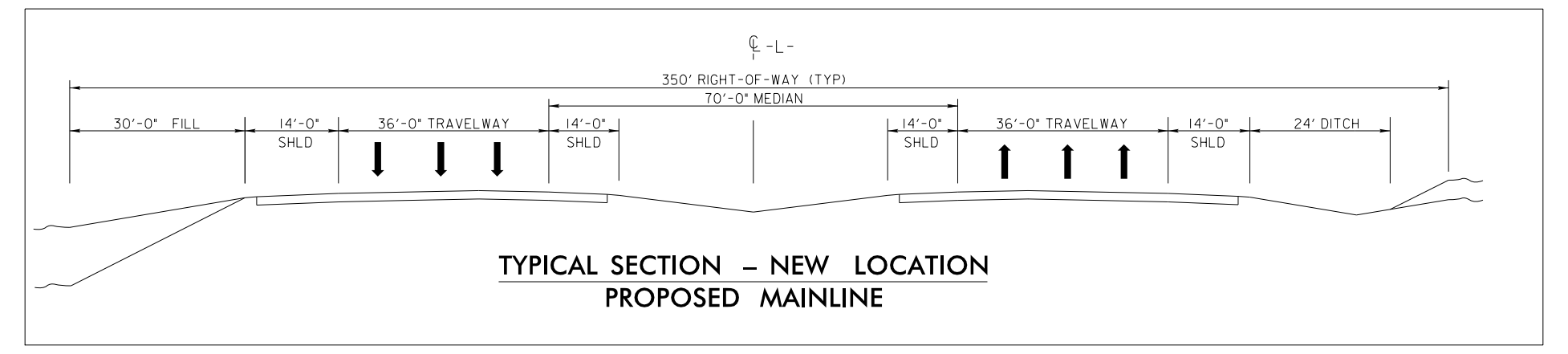
S.T.I.P. NOS. R–2721, R–2828, R–2829
STATE PROJECT NOS. 6.401078, 6.401079, 6.401080
FEDERAL AID PROJECT NOS.
STP–540(19), STP–540(20), STP–540(21)
WBS NOS. 37673.1.TA2, 35516.1.TA2, 35517.1.TA1

WAKE / JOHNSTON COUNTIES

COMPLETE 540
TRIANGLE EXPRESSWAY SOUTHEAST EXTENSION
NC 55 BYPASS TO US 64 / 264 BYPASS / I–495

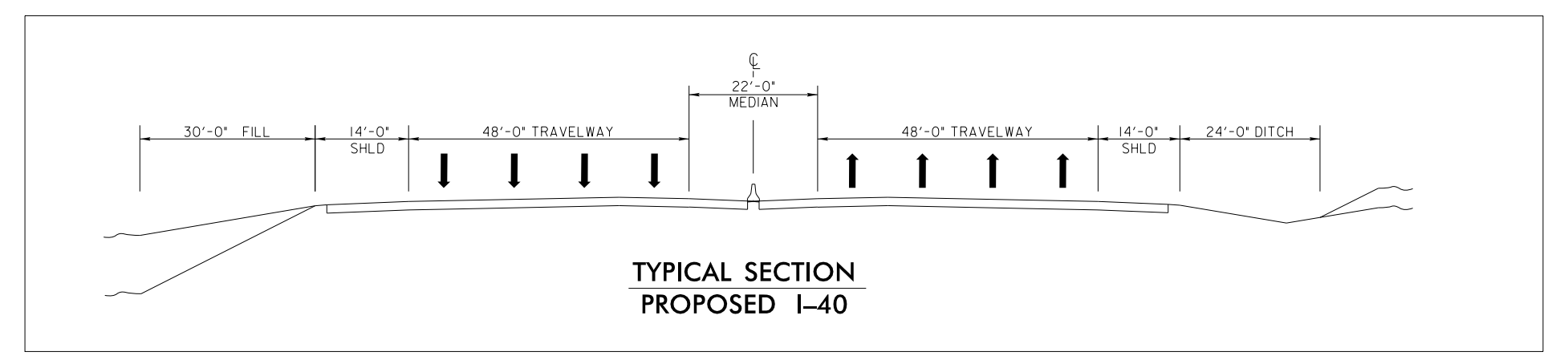
SHEET 6B OF 8

NORTH CAROLINA
Turnpike Authority



℄ -L-
350' RIGHT-OF-WAY (TYP)
70'-0" MEDIAN
30'-0" FILL
14'-0" SHLD
36'-0" TRAVELWAY
14'-0" SHLD
14'-0" SHLD
36'-0" TRAVELWAY
14'-0" SHLD
24' DITCH

TYPICAL SECTION – NEW LOCATION
PROPOSED MAINLINE



℄
22'-0" MEDIAN
30'-0" FILL
14'-0" SHLD
48'-0" TRAVELWAY
48'-0" TRAVELWAY
14'-0" SHLD
24'-0" DITCH

TYPICAL SECTION
PROPOSED I–40

LEGEND

🟧	ORANGE CORRIDOR
🟪	PURPLE CORRIDOR
🟦	BLUE CORRIDOR
🟪	LILAC CORRIDOR
🟥	RED CORRIDOR
🟩	GREEN CORRIDOR
🟩	MINT CORRIDOR
🟫	BROWN CORRIDOR
🟧	TAN CORRIDOR
🟦	TEAL CORRIDOR
—⊕—	PROPOSED RIGHT OF WAY
—●—	PROPOSED CONTROL OF ACCESS
○	EXISTING CONTROL OF ACCESS
——	GREENWAYS
- - - -	RELOCATED GREENWAY
- - - -	CITY OR TOWNSHIP LIMITS
■ ■ ■ ■	COUNTY LIMITS
——	PROPERTY LINES
▬	UTILITY EASEMENT
▨	CEMETERY
HPB	HISTORIC PROPERTY
■	LAKES, RIVERS, STREAMS AND PONDS
⁎⁎⁎⁎⁎	WETLAND
- -WLB- -	WETLAND LIMITS BOUNDARY
- JS NEU -	JURISDICTIONAL STREAM LINES
▩	CRITICAL WATERSHED AREA
▩	NOISE STUDY AREA
■	PROPOSED STRUCTURES
▧	EXISTING STRUCTURES TO BE RETAINED
▧	EXISTING STRUCTURES TO BE REMOVED
2012 2035	PRESENT AVERAGE DAILY TRAFFIC (ADT) FUTURE AVERAGE DAILY TRAFFIC (ADT)
🚦	EXISTING TRAFFIC SIGNAL

NOTE:
Full Control of Access is defined as a connection to a facility provided only via ramps at interchanges. All cross–streets are grade–separated. No private driveway connections allowed.

DESIGN DATA

Functional Class.	=	Freeway
Design Speed	=	70 mph
Max. Superelev.	=	0.08

ORTHOPHOTO DATA

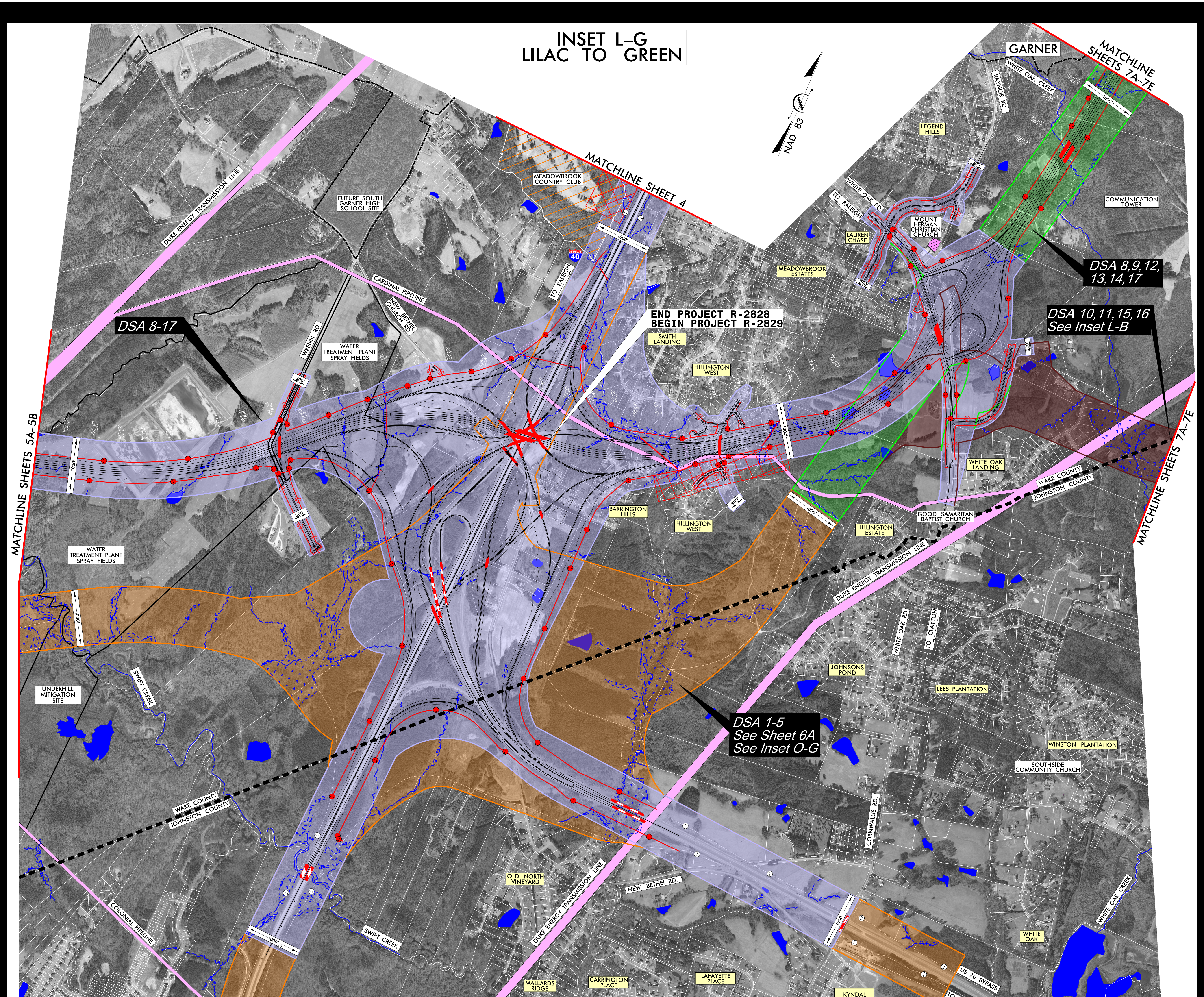
GIS Aerial Mapping	=	JAN 2014
GIS Property Boundaries	=	JULY 2015

PRELIMINARY PLANS
SUBJECT TO CHANGE

INCOMPLETE PLANS
DO NOT USE FOR R/W ACQUISITION

500' 250' 0' 500' 1000'
(ENGLISH)

INSET L–G
LILAC TO GREEN



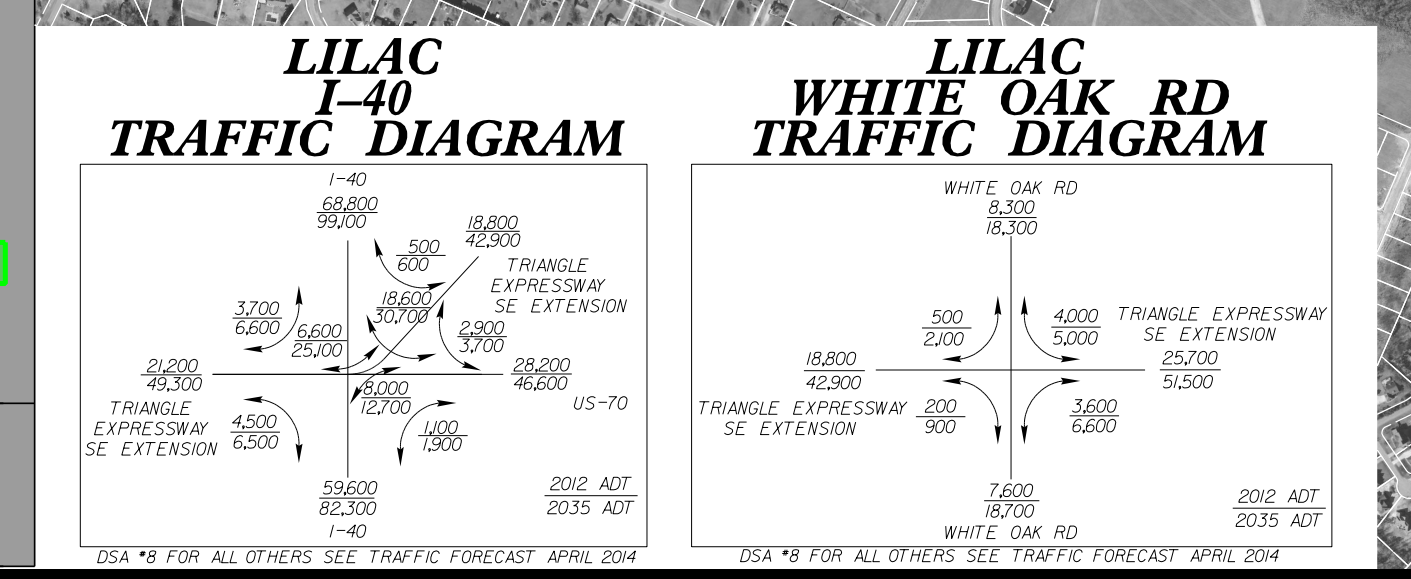
NAD 83
GARNER
MATCHLINE SHEETS 7A–7E
MATCHLINE SHEET 4
MATCHLINE SHEETS 5A–5B
MEADOWBROOK COUNTRY CLUB
FUTURE SOUTH GARNER HIGH SCHOOL SITE
DUKE ENERGY TRANSMISSION LINE
CARDINAL PIPELINE
NEW BETHEL CHURCH RD.
WRENN RD.
WATER TREATMENT PLANT SPRAY FIELDS
TO RALEIGH
40
WHITE OAK RD
WHITE OAK CREEK
RAYNOR RD.
LEGEND HILLS
LAUREN CHASE
MOUNT HERMAN CHRISTIAN CHURCH
MEADOWBROOK ESTATES
COMMUNICATION TOWER
DSA 8-17
DSA 8,9,12, 13,14,17
DSA 10,11,15,16 See Inset L-B
END PROJECT R-2828
BEGIN PROJECT R-2829
SMITH LANDING
HILLINGTON WEST
BARRINGTON HILLS
HILLINGTON ESTATE
GOOD SAMARITAN BAPTIST CHURCH
WHITE OAK LANDING
WAKE COUNTY
JOHNSTON COUNTY
UNDERHILL MITIGATION SITE
SWIFT CREEK
COLONIAL PIPELINE
CLEVELAND RD.
TO BENSON
DSA 1-5 See Sheet 6A See Inset O-G
JOHNSONS POND
LEES PLANTATION
WINSTON PLANTATION
SOUTHSIDE COMMUNITY CHURCH
CORNWALLIS RD.
TO CLAYTON
OLD NORTH VINEYARD
NEW BETHEL RD.
MALLARDS RIDGE
CARRINGTON PLACE
LAFAYETTE PLACE
KYNDAL
WHITE OAK
AUSTINS POND
US 70 BYPASS
70 BYP
1000'
300'

Detailed Study Alternative (DSA) Number and Color Sequence

DSA	Sequence
1	O G
2	O G M G
3	O B T G
4	O B G
5	O G TL B G
6	O R G
7	O R M G
8	O PU BL L G
9	O PU BL L G M G
10	O PU BL L B T G
11	O PU BL L B G
12	O PU BL L G TL B G
13	O L G
14	O L G M G
15	O L B T G
16	O L B G
17	O L G TL B G

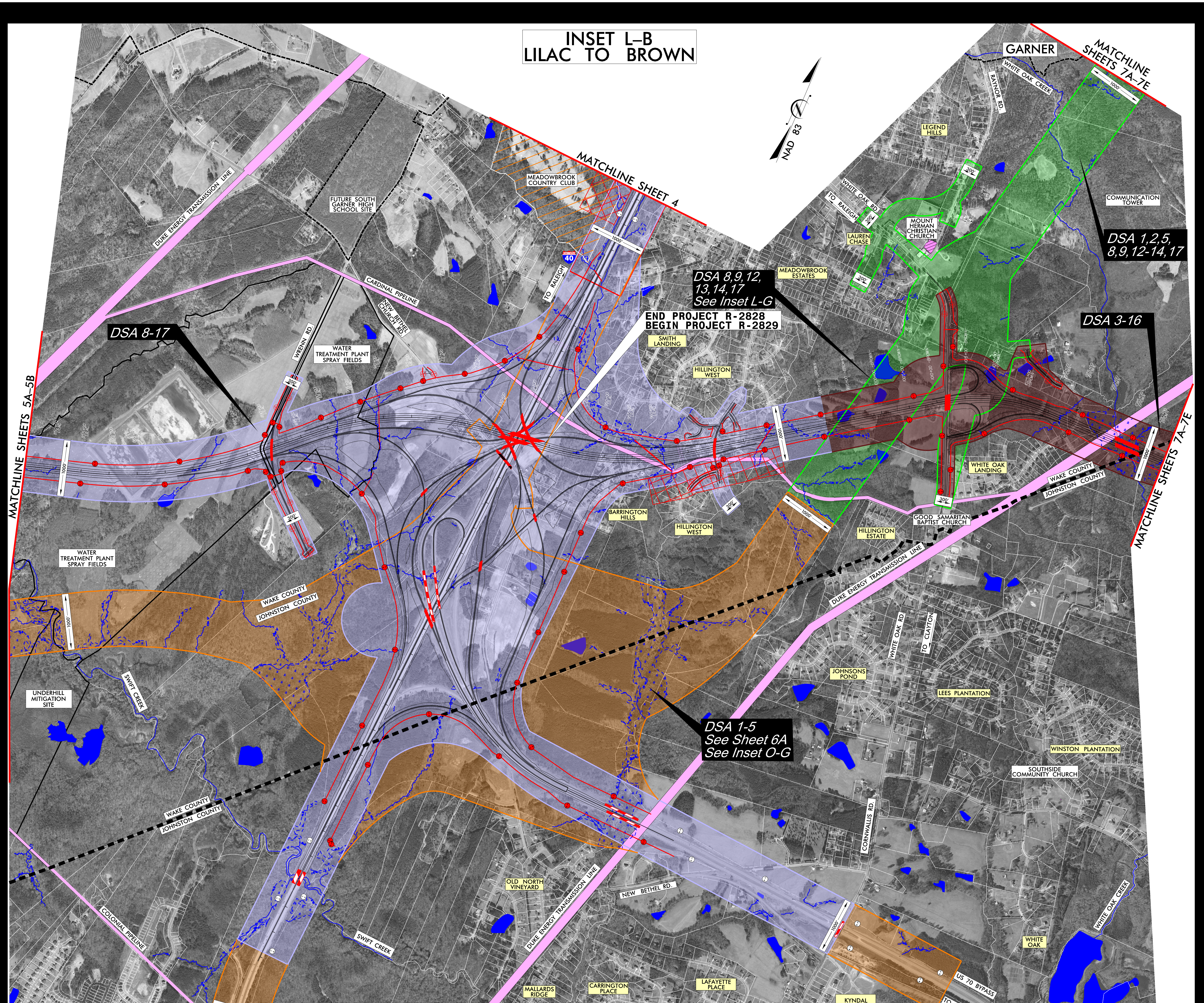
Corridor Segments Key

O	Orange	PU	Purple	L	Lilac	TL	Teal	B	Brown
G	Green	BL	Blue	R	Red	T	Tan	M	Mint



LILAC I–40 TRAFFIC DIAGRAM
I–40
68,800
99,100
500
600
18,800
42,500
TRIANGLE EXPRESSWAY SE EXTENSION
3,700
6,600
6,600
25,100
18,600
30,700
2,900
3,700
21,200
49,300
28,200
46,600
US–70
8,000
12,700
4,500
6,500
1,100
1,900
59,600
82,300
I–40
2012 ADT
2035 ADT
DSA *8 FOR ALL OTHERS SEE TRAFFIC FORECAST APRIL 2014
LILAC WHITE OAK RD TRAFFIC DIAGRAM
WHITE OAK RD
8,300
18,300
500
2,100
4,000
5,000
TRIANGLE EXPRESSWAY SE EXTENSION
25,700
51,500
18,800
42,900
TRIANGLE EXPRESSWAY SE EXTENSION
200
900
3,600
6,600
7,600
18,700
WHITE OAK RD
2012 ADT
2035 ADT
DSA *8 FOR ALL OTHERS SEE TRAFFIC FORECAST APRIL 2014

INSET L–B
LILAC TO BROWN



NAD 83
GARNER
MATCHLINE SHEETS 7A–7E
MATCHLINE SHEET 4
MATCHLINE SHEETS 5A–5B
MEADOWBROOK COUNTRY CLUB
FUTURE SOUTH GARNER HIGH SCHOOL SITE
DUKE ENERGY TRANSMISSION LINE
CARDINAL PIPELINE
NEW BETHEL CHURCH RD.
WRENN RD.
WATER TREATMENT PLANT SPRAY FIELDS
TO RALEIGH
40
WHITE OAK RD
WHITE OAK CREEK
RAYNOR RD.
LEGEND HILLS
LAUREN CHASE
MOUNT HERMAN CHRISTIAN CHURCH
MEADOWBROOK ESTATES
COMMUNICATION TOWER
DSA 8-17
DSA 8,9,12, 13,14,17 See Inset L-G
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WHITE OAK LANDING
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UNDERHILL MITIGATION SITE
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DSA 1-5 See Sheet 6A See Inset O-G
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LEES PLANTATION
WINSTON PLANTATION
SOUTHSIDE COMMUNITY CHURCH
CORNWALLIS RD.
TO CLAYTON
OLD NORTH VINEYARD
NEW BETHEL RD.
MALLARDS RIDGE
CARRINGTON PLACE
LAFAYETTE PLACE
KYNDAL
WHITE OAK
AUSTINS POND
US 70 BYPASS
70 BYP
1000'
300'

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7	O R M G
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9	O PU BL L G M G
10	O PU BL L B T G
11	O PU BL L B G
12	O PU BL L G TL B G
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14	O L G M G
15	O L B T G
16	O L B G
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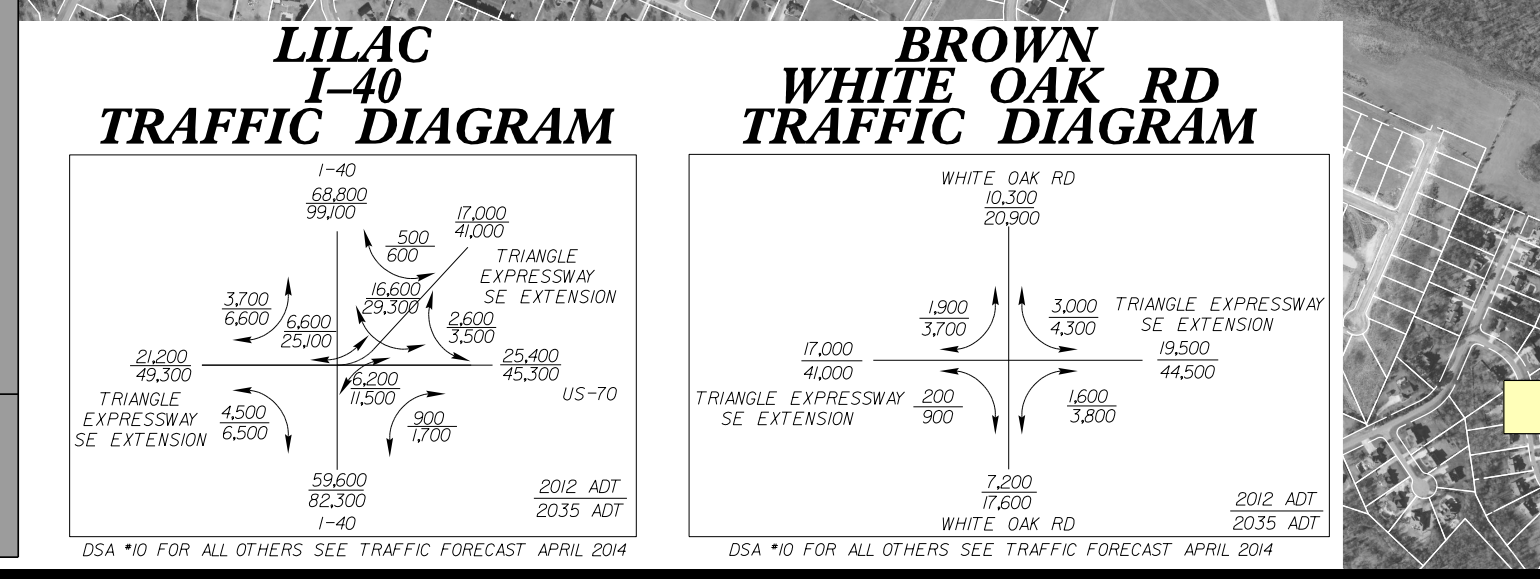

LILAC I–40 TRAFFIC DIAGRAM
I–40
68,800
99,100
500
600
17,000
41,000
TRIANGLE EXPRESSWAY SE EXTENSION
3,700
6,600
6,600
25,100
16,600
29,300
2,600
3,500
21,200
49,300
25,400
45,300
US–70
6,200
11,500
4,500
6,500
900
1,700
59,600
82,300
I–40
2012 ADT
2035 ADT
DSA *10 FOR ALL OTHERS SEE TRAFFIC FORECAST APRIL 2014
BROWN WHITE OAK RD TRAFFIC DIAGRAM
WHITE OAK RD
10,300
20,900
1,900
3,700
3,000
4,300
TRIANGLE EXPRESSWAY SE EXTENSION
19,500
44,500
17,000
41,000
TRIANGLE EXPRESSWAY SE EXTENSION
200
900
1,600
3,800
7,200
17,600
WHITE OAK RD
2012 ADT
2035 ADT
DSA *10 FOR ALL OTHERS SEE TRAFFIC FORECAST APRIL 2014

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SHEET 6B OF 8
NORTH CAROLINA Turnpike Authority

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