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 4 OF 8

NORTH CAROLINA Turnpike Authority

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

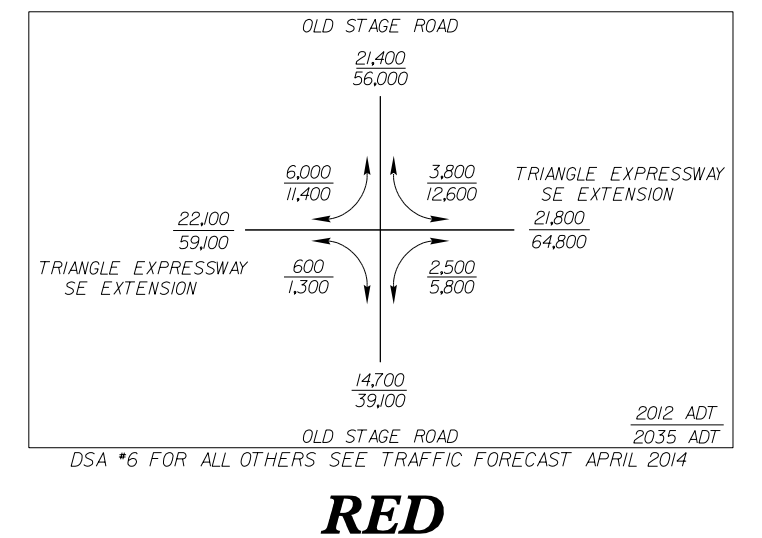
ORTHOPHOTO DATA		
GIS Aerial Mapping	=	JAN 2014
GIS Property Boundaries	=	JULY 2015

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

PRELIMINARY PLANS
SUBJECT TO CHANGE

INCOMPLETE PLANS
DO NOT USE FOR R/W ACQUISITION

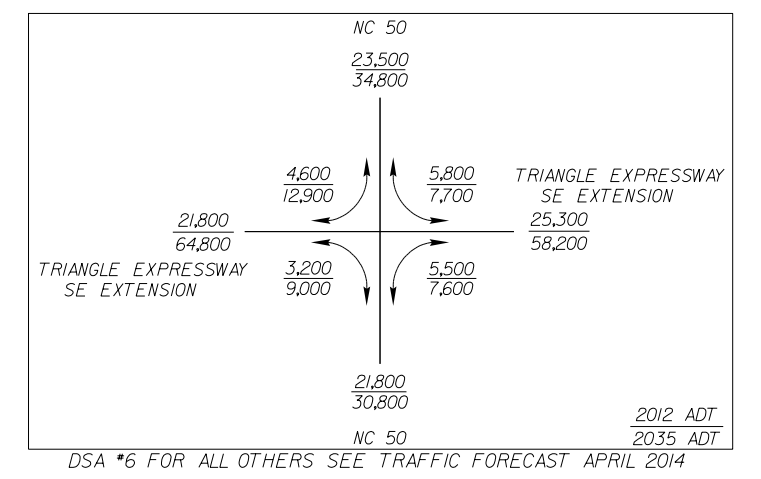
RED OLD STAGE RD. TRAFFIC DIAGRAM



OLD STAGE ROAD
21,400
56,000
6,000
11,400
3,800
12,600
TRIANGLE EXPRESSWAY SE EXTENSION
22,100
59,100
21,800
64,800
TRIANGLE EXPRESSWAY SE EXTENSION
600
1,300
2,500
5,800
14,700
39,100
OLD STAGE ROAD
2012 ADT
2035 ADT

DSA *6 FOR ALL OTHERS SEE TRAFFIC FORECAST APRIL 2014

RED BENSON RD. (US 50) TRAFFIC DIAGRAM



NC 50
23,500
34,800
4,600
12,900
5,800
7,700
TRIANGLE EXPRESSWAY SE EXTENSION
25,300
58,200
21,800
64,800
TRIANGLE EXPRESSWAY SE EXTENSION
3,200
9,000
5,500
7,600
21,800
30,800
NC 50
2012 ADT
2035 ADT

DSA *6 FOR ALL OTHERS SEE TRAFFIC FORECAST APRIL 2014

NAD 83

LEGEND

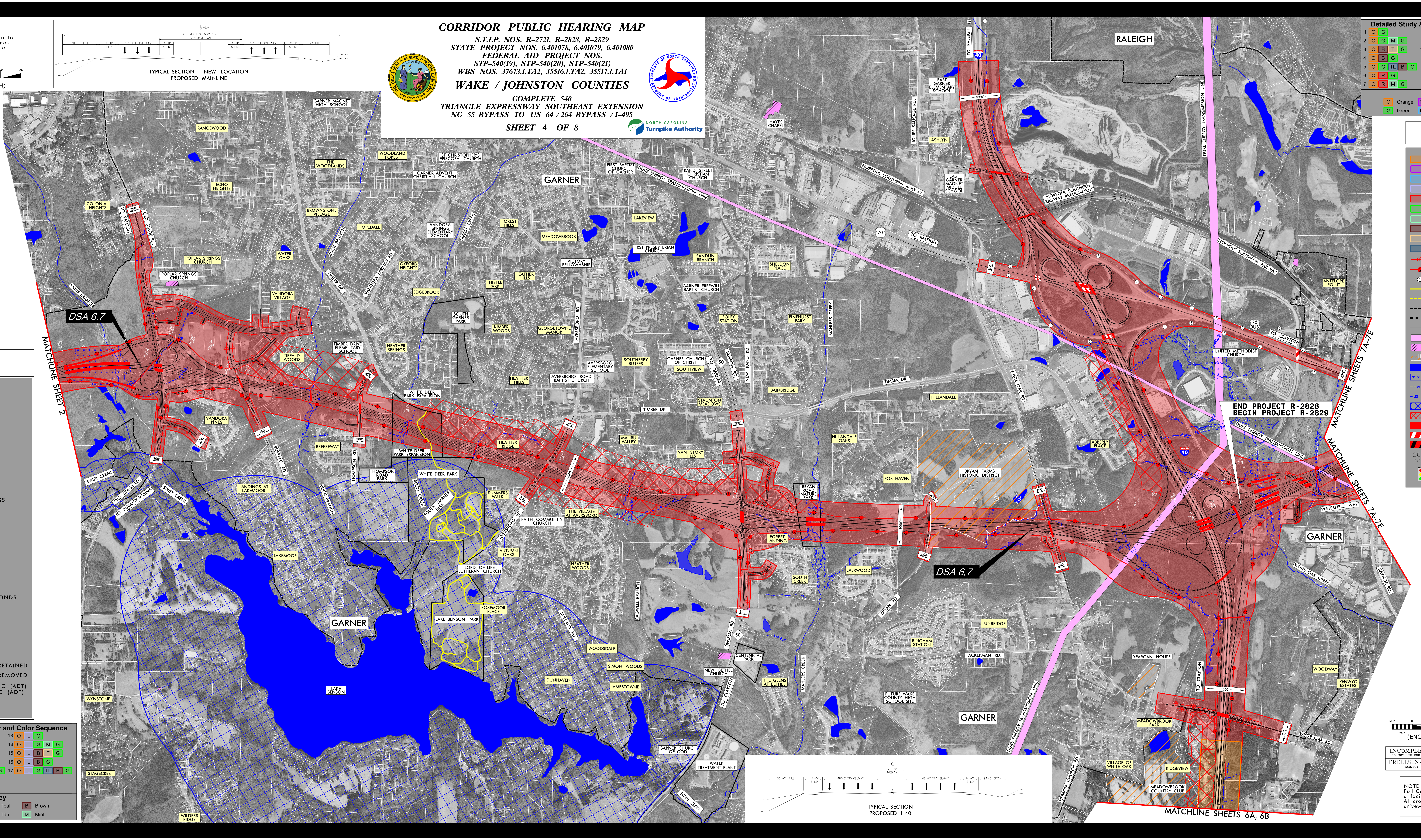
- 🟧 ORANGE CORRIDOR
- 🟪 PURPLE CORRIDOR
- 🟦 BLUE CORRIDOR
- 🟪 LILAC CORRIDOR
- 🟥 RED CORRIDOR
- 🟩 GREEN CORRIDOR
- 🟩 MINT CORRIDOR
- 🟫 BROWN CORRIDOR
- 🟧 TAN CORRIDOR
- 🟦 TEAL CORRIDOR
- PROPOSED RIGHT OF WAY
- ● PROPOSED CONTROL OF ACCESS
- ○ EXISTING CONTROL OF ACCESS
- GREENWAYS
- RELOCATED GREENWAY
- 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

Detailed Study Alternative (DSA) Number and Color Sequence

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

Corridor Segments Key

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



℄ -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
RALEIGH
GARNER MAGNET HIGH SCHOOL
RANGEWOOD
WOODLAND FOREST
THE WOODLANDS
ST CHRISTOPHER'S EPISCOPAL CHURCH
GARNER ADVENT CHRISTIAN CHURCH
ECHO HEIGHTS
COLONIAL HEIGHTS
TO RALEIGH
OLD STAGE RD.
BROWNSTONE VILLAGE
HOPEDALE
BUCK BRANCH
VANDORA SPRINGS RD.
OXFORD HEIGHTS
VANDORA SPRINGS ELEMENTARY SCHOOL
REEDY CREEK
FOREST HILLS
MEADOWBROOK
GARNER
LAKEVIEW
FIRST BAPTIST CHURCH OF GARNER
DUKE ENERGY TRANSMISSION LINE
RAND STREET CHRISTIAN CHURCH
HAYES CHAPEL
JONES SAUSAGE RD.
ASHLYN
EAST GARNER ELEMENTARY SCHOOL
TO RALEIGH
40
1000'
NORFOLK SOUTHERN RAILWAY
EAST GARNER MAGNET MIDDLE SCHOOL
NORFOLK SOUTHERN RAILWAY REALIGNMENT
DUKE ENERGY TRANSMISSION LINE
FIRST PRESBYTERIAN CHURCH
SANDLIN BRANCH
SHELDON PLACE
70
TO RALEIGH
300'
VICTORY FELLOWSHIP
POPLAR SPRINGS CHURCH
POPLAR SPRINGS CHURCH
WATER OAKS
TIMBER DR.
VANDORA VILLAGE
EDGEBROOK
THISTLE PARK
HEATHER HILLS
GARNER FREEWILL BAPTIST CHURCH
YATES BRANCH
SOUTH GARNER PARK
KIMBER WOODS
GEORGETOWNE MANOR
AVERSBORO RD.
FOLEY STATION
PINEHURST PARK
MAHLERS CREEK
ANTELOPE POINT
70 BUS
TO CLAYTON
UNITED METHODIST CHURCH
DSA 6,7
MATCHLINE SHEET 2
TIMBER DRIVE ELEMENTARY SCHOOL
HEATHER SPRINGS
TIFFANY WOODS
AVERSBORO ELEMENTARY SCHOOL
AVERSBORO ROAD BAPTIST CHURCH
SOUTHERBY BLUFFS
GARNER CHURCH OF CHRIST
SOUTHVIEW
TO GARNER
50
BENSON RD.
NEW RAND RD.
BAINBRIDGE
TIMBER DR.
HILLANDALE
WHITE OAK RD.
END PROJECT R-2828
BEGIN PROJECT R-2829
MATCHLINE SHEETS 7A-7E
HEATHER HILLS
WHITE DEER PARK EXPANSION
STAUNTON MEADOWS
TIMBER DR.
VANDORA PINES
300'
400'
BUFFALO RD.
BREEZEWAY
THOMPSON RD
WHITE DEER PARK EXPANSION
HEATHER RIDGE
MALIBU VALLEY
VAN STORY HILLS
HILLANDALE OAKS
ABBERLY PLACE
THOMPSON ROAD PARK
WHITE DEER PARK
REEDY CREEK
SOUTH GARNER TRAIL
SUMMERS WALK
THE VILLAGE AT AVERSBORO
AVERSBORO RD.
FAITH COMMUNITY CHURCH
FOX HAVEN
BRYAN FARMS HISTORIC DISTRICT
BRYAN ROAD NATURE PARK
FOREST LANDING
1000'
WATERFIELD WAY
GARNER
SWIFT CREEK
OLD STAGE RD.
TO FUQUAY-VARINA
SWIFT CREEK
LANDINGS AT LAKEMOOR
BUCK BRANCH
AUTUMN OAKS
LORD OF LIFE LUTHERAN CHURCH
HEATHER WOODS
SOUTH CREEK
EVERWOOD
DSA 6,7
BRYAN RD.
WHITE OAK CREEK
RAYNOR RD.
LAKEMOOR
ROSEMOOR PLACE
LAKE BENSON PARK
GARNER
BAGWELL BRANCH
BENSON RD.
TUNBRIDGE
BINGHAM STATION
ACKERMAN RD.
BUFFALO RD.
CENTENNIAL PARK
WOODSDALE
SIMON WOODS
NEW BETHEL CHURCH
THE GLENS AT BETHEL
MAHLERS CREEK
YEARGAN HOUSE
TO CLAYTON
WOODWAY
PENWYC ESTATES
WYNSTONE
LAKE BENSON
DUNHAVEN
JAMESTOWNE
FUTURE WAKE COUNTY HIGH SCHOOL SITE
GARNER
DUKE ENERGY TRANSMISSION LINE
MEADOWBROOK PARK
WHITE OAK RD.
500'
STAGECREST
GARNER CHURCH OF GOD
WATER TREATMENT PLANT
SWIFT CREEK
VILLAGE OF WHITE OAK
RIDGEVIEW
MEADOWBROOK COUNTRY CLUB
HEBRON CHURCH RD.
WILDERS RIDGE
MATCHLINE SHEETS 6A, 6B
℄
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

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WAKE / JOHNSTON COUNTIES
COMPLETE 540
TRIANGLE EXPRESSWAY SOUTHEAST EXTENSION
NC 55 BYPASS TO US 64 / 264 BYPASS / I–495
SHEET 4 OF 8
NORTH CAROLINA Turnpike Authority

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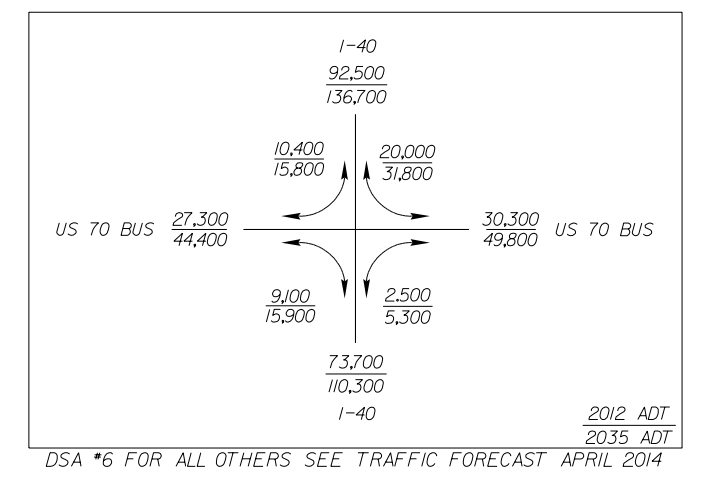
NAD 83

RED US 70 BUS TRAFFIC DIAGRAM



I-40
92,500
136,700
10,400
15,800
20,000
31,800
US 70 BUS
27,300
44,400
30,300
49,800
US 70 BUS
9,100
15,900
2,500
5,300
73,700
110,300
I-40
2012 ADT
2035 ADT

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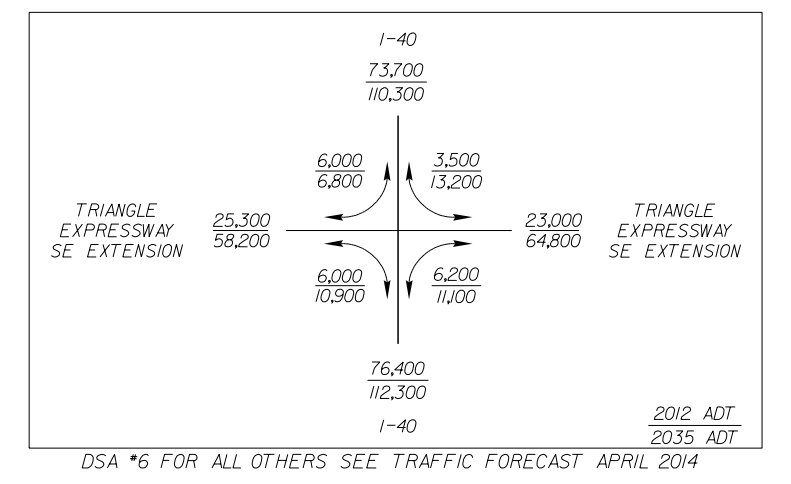
RED I–40 TRAFFIC DIAGRAM



I-40
73,700
110,300
6,000
6,800
3,500
13,200
TRIANGLE EXPRESSWAY SE EXTENSION
25,300
58,200
23,000
64,800
TRIANGLE EXPRESSWAY SE EXTENSION
6,000
10,900
6,200
11,100
76,400
112,300
I-40
2012 ADT
2035 ADT

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500' 0' 500' 1000'
250'
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