DESIGN 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.A.TA1

WAKE & JOHNSTON COUNTIES

COMPLETE 540
TRIANGLE EXPRESSWAY SOUTHEAST EXTENSION
NC 55 BYPASS TO US 64 /264 BYPASS /I–495
MAP 6 OF 9

NORTH CAROLINA Turnpike Authority

LEGEND

🟫	BUILDING
🟩	EXISTING RIGHT OF WAY
🟩	PROPOSED RIGHT OF WAY
▨	PROPOSED EASEMENT (DRAINAGE, CONSTRUCTION, OR UTILITY)
▭	EXISTING ROADWAY
▨	EXISTING ROADWAY TO BE REMOVED
🟧	EXISTING ROADWAY TO BE RESURFACED
🟨	PROPOSED ROADWAY
▬	TEMPORARY DETOUR
▨	FUTURE ROADWAY
🟥	PROPOSED STRUCTURE, ISLAND OR CURB AND GUTTER
▨	EXISTING STRUCTURE, ISLAND OR CURB AND GUTTER TO BE RETAINED
▨	EXISTING STRUCTURE, ISLAND OR CURB AND GUTTER TO BE REMOVED
▨	FUTURE STRUCTURE, ISLAND OR CURB AND GUTTER
🟦	LAKE, RIVER, STREAM OR POND
🟪	RAILROAD RIGHT OF WAY
▭	EXISTING UTILITY EASEMENT
▨	CEMETERY
●	PROPOSED CONTROL OF ACCESS
○	EXISTING CONTROL OF ACCESS
0000 / 0000	PRESENT ADT / FUTURE ADT
— —	PROPERTY LINES
▨	NOISE STUDY AREA
‖	PROPOSED TOLL GANTRY
🚦	EXISTING TRAFFIC SIGNAL
🚦	PROPOSED TRAFFIC SIGNAL
—HPB—	HISTORIC PROPERTY BOUNDARY
—WLB—	WETLAND LIMIT BOUNDARY
▬	FUTURE GREENWAY (TO BE CONSTRUCTED BY OTHERS)
▬	EXISTING GREENWAY

NOISE STUDY AREA

THE LABELED AREAS INDICATE NOISE–SENSITIVE LOCATIONS FOR WHICH POTENTIAL NOISE BARRIERS HAVE BEEN IDENTIFIED. MORE DETAILED ANALYSES WILL OCCUR DURING FINAL PROJECT DESIGN TO DETERMINE WHETHER THESE POTENTIAL BARRIER LOCATIONS MEET THE REASONABLE AND FEASIBLE CRITERIA WITHIN THE NCDOT TRAFFIC NOISE ABATEMENT POLICY. IF THESE CRITERIA ARE MET, BARRIER CONSTRUCTION WILL OCCUR PENDING PUBLIC APPROVAL.

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 ARE ALLOWED.

NOTE:
COMPLETE 540 PROJECT WILL BE TYING INTO WORK DONE BY FUTURE PROJECT I–5111.

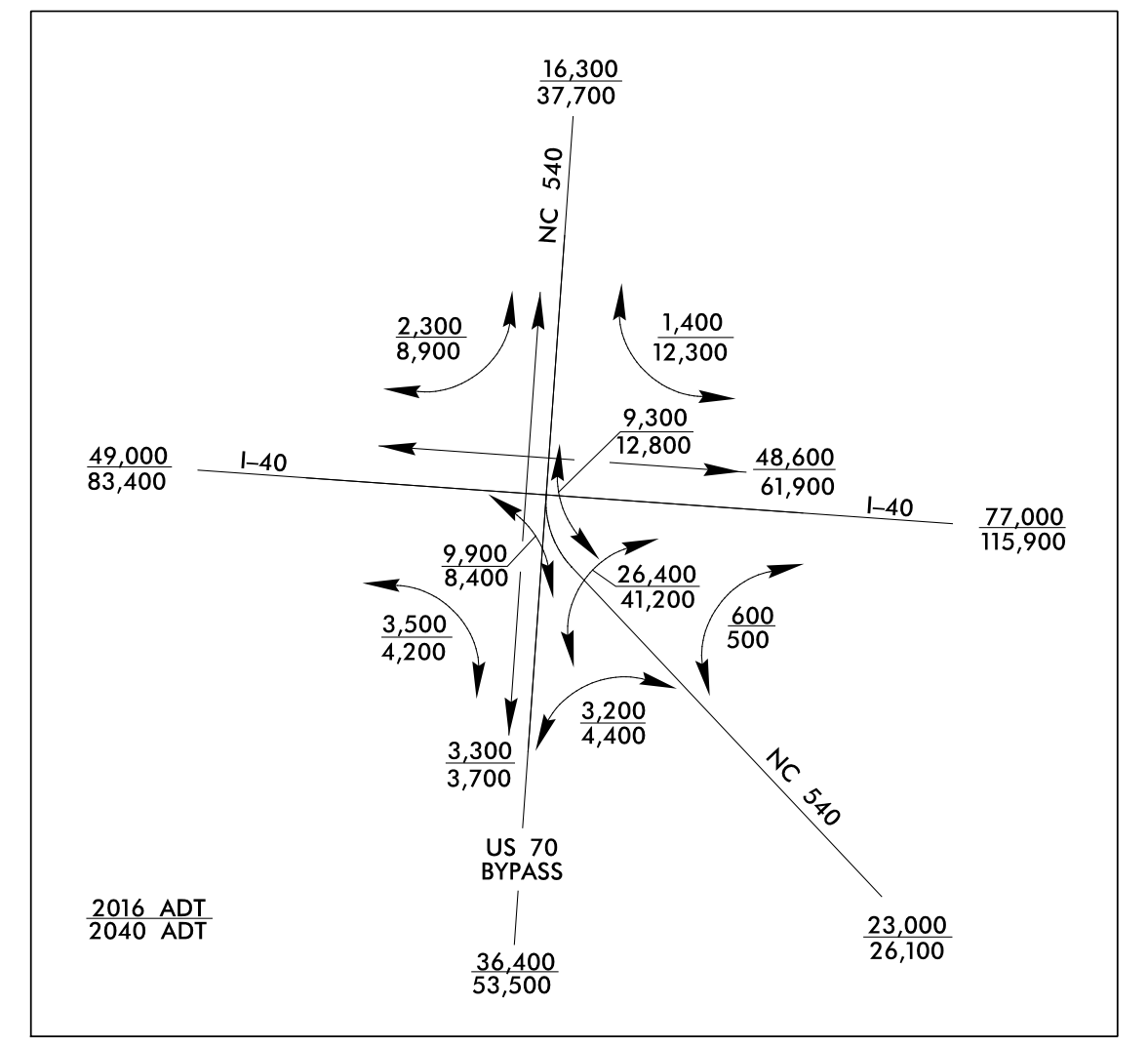
PRELIMINARY PLANS
DO NOT USE FOR CONSTRUCTION

200′ 0′ 200′ 400′
SCALE: 1″ = 200′

DESIGN DATA

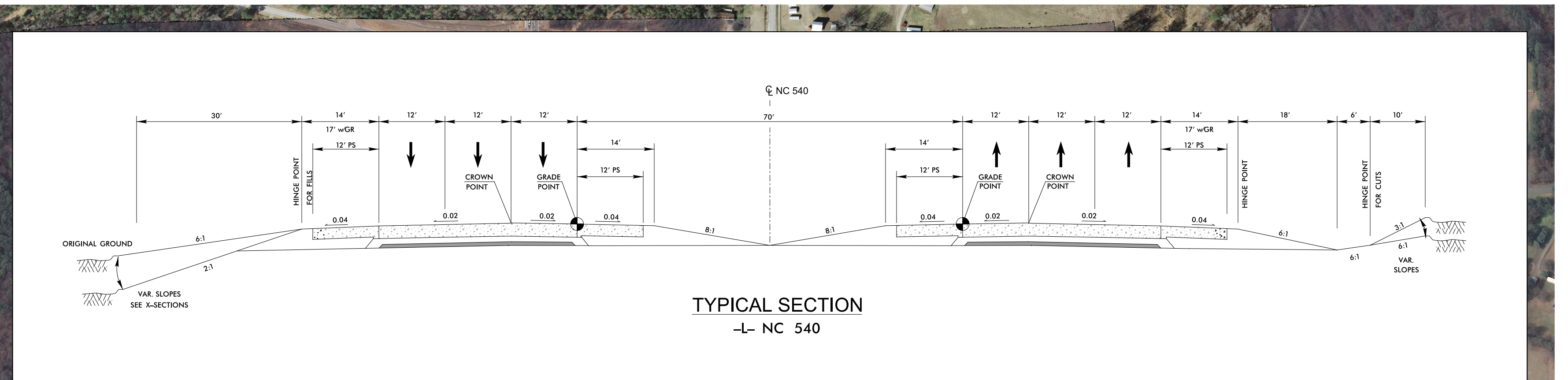
FUNCTIONAL CLASSIFICATION = FREEWAY
DESIGN SPEED = 75 MPH
MAX. SUPERELEVATION = 0.08

ORTHOPHOTO DATA:
Flight Mission = M–7967
Flight Date = 03–07–16



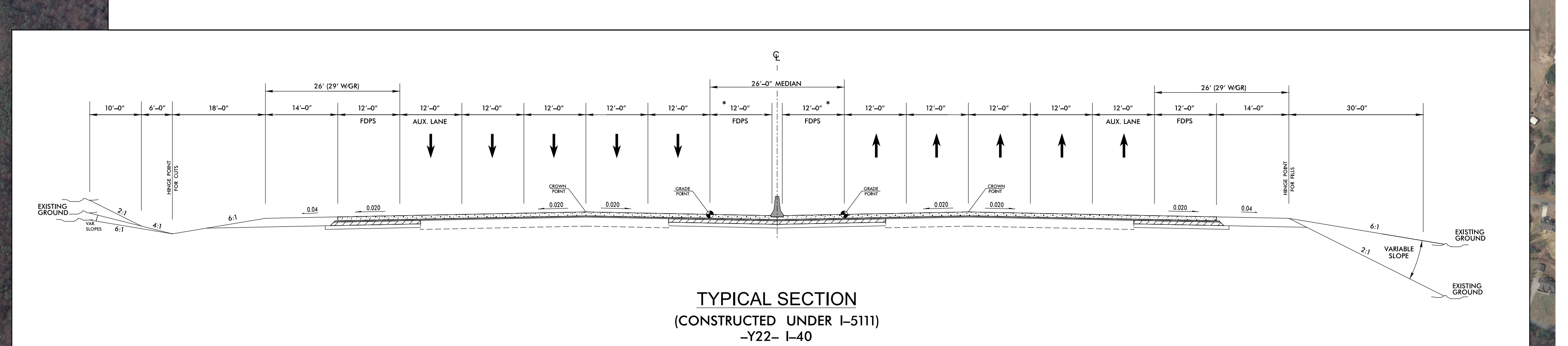
16,300 / 37,700
NC 540
2,300 / 8,900
1,400 / 12,300
9,300 / 12,800
49,000 / 83,400
I–40
48,600 / 61,900
I–40
77,000 / 115,900
9,900 / 8,400
26,400 / 41,200
3,500 / 4,200
600 / 500
3,200 / 4,400
3,300 / 3,700
NC 540
US 70 BYPASS
2016 ADT / 2040 ADT
36,400 / 53,500
23,000 / 26,100

367	COLE, LUTHER R JR COLE, TALITHA J
368	WILLIAMS, LATONIA WILLIAMS, LATHAN JR
369	MCMILLAN, VINCENT MCMILLAN, SABRINA R
370	PITTMAN, WILLIAM JR
371	ROGERS, DAVID B ROGERS, MARIE M
372	MOORE, KRYSTAL
373	SLYWKA, JUDY A
374	KNIGHT, TERRENCE L KNIGHT, LAURA
375	JACKSON, MICHAEL A JACKSON, ANNIE D
376	BARNETT, EARL E BARNETT, MAUREEN D
377	PENDLETON, TARA RENEE PENDLETON, WILLIAM NELSON JR
378	FOSTER, JEANNETTE FOSTER, LAWRENCE
379	FOBBS, CHARLIE L FOBBS, BRIDGETT L
380	POWELL, DENNIS L POWELL, ADRIANNE M
381	ROBINSON, WAUDDELL J JR
382	FAULK, HARRIS D FAULK, JANICE W
383	LEWIS, MARVA
384	SCALLY, VICTORIA LYNN
385	ROBINSON, WAUDDELL J JR OATES, TOSHIBA G
386	MCLAMB, WILLIAM C MCLAMB, LELIA C
387	MERRITT, RACQUEL NORWOOD, DONALD
388	RIDGEVIEW SUBDIVISION HOMEOWNERS ASSOCIATION INC
389	SMITH, PHILLIP R SMITH, PAMELA K
390	NELSON, WALTER R JR NELSON, KAREN M
391	PENNY, JIMMY LEE
392	WHITE, MARY POWELL WARD WARD, ISABEL L
393	BECKER, RONALD C BECKER, WANDA T
394	YOUNG, JAMES E YOUNG, SHIRLEY M
395	GRAY, RALPH G GRAY, KAREN M
396	TRENT, DARRELL K TRENT, HOLLY M
397	KEIL, BRUCE L KEIL, KAREN H
398	KULIKOWSKI, JENNIFER A KULIKOWSKI, MICHAEL J
399	MORRISON, PETER TODD
400	WEISMAN, MELISSA WEISMAN, WADE
401	COLLINS, TIMOTHY COLLINS, KIMBERLY E
402	WALL, JONATHAN
403	BROWN, KENNETH L
404	UNITED STATES OF AMERICA SECRETARY OF VETERANS AFF
405	BAILEY, KEVIN G
406	THOMPSON, RONNIE AL
407	THOMPSON, RONNIE A THOMPSON, ANGELA G
408	THOMPSON, RONNIE AL
416	SWOBODA, WILLIAM X JR
417	BOYKIN, SANDY LYNN
418	BAD PROPERTIES LLC
419	CLEVELAND SCHOOL ANIMAL
420	42 WEST LLC
421	MOORE & MOORE LLC
432	SHIV ENTERPRISES INC
433	BTP PROPERTIES LLC
434	JATEN, LLC
435	AMERICAN SOCIETY OF CRIME LAB
436	CHANDLER, JACK L JR
437	J & M SMITH ENTERPRISES LLC
438	CHANDLER, JACK L JR
1786	HODGES, SANDRA G HODGES, YOLONDA
1787	EVANS, JEREMY MICHAEL
1788	RICH, ANGELA M
1785	MEEKER FAMILY LIMITED PRTNRSHP



℄ NC 540
30′
14′
17′ wGR
12′ PS
12′
12′
12′
70′
14′
12′ PS
HINGE POINT FOR FILLS
CROWN POINT
GRADE POINT
0.04
0.02
8:1
6:1
2:1
ORIGINAL GROUND
VAR. SLOPES SEE X–SECTIONS
18′
6′
10′
HINGE POINT FOR CUTS
3:1
VAR. SLOPES

TYPICAL SECTION
–L– NC 540



℄
26′–0″ MEDIAN
26′ (29′ WGR)
10′–0″
6′–0″
18′–0″
14′–0″
12′–0″
FDPS
AUX. LANE
HINGE POINT FOR CUTS
HINGE POINT FOR FILLS
CROWN POINT
GRADE POINT
0.04
0.020
EXISTING GROUND
VAR SLOPES
2:1
4:1
6:1
VARIABLE SLOPE
30′–0″

TYPICAL SECTION
(CONSTRUCTED UNDER I–5111)
–Y22– I–40

MATCH TO MAP 5 OF 9
-L- STA. 905+00.00
540
TOLL
T.I.P. I–4739
T.I.P. I–5111
TO BENSON
40
TECHNOLOGY DR
SWIFT CREEK
FUTURE SWIFT CREEK GREENWAY
WAKE COUNTY
JOHNSTON COUNTY
A
B
C
D
E
-Y22-
-Y22FLYCC-
-Y22RPB-
-Y22SLIPRPB-
-Y22LPB-
-Y22LPC-
-Y22RPC-
-Y22RPCD-
-Y22RPDFLY-
-Y22RPE-
-Y22SLIPRPE-
-Y22RPAFLY-
-Y22SLIPRPA-
-Y22RPA-
-Y22LPA-
-Y22B-
PROPOSED 3@9′x5′ RCBC
-L- PT STA 916+02.04
SR 5589
NEW BETHEL CHURCH RD
CARDINAL PIPELINE
BARRINGTON HILLS LN
BARRINGTON HILLS
DRAIN POND
PROPOSED RETAINING WALL
END S.T.I.P. R-2828
BEGIN S.T.I.P. R-2829
BEGIN CONSTRUCTION
-L- STA 955+00.00
-L- TS STA 965+00.46
-L- SC STA 969+20.46
MATCH TO MAP 7 OF 9
-L- STA. 970+00.00
OLD NORTH VINEYARD
NEW BETHEL RD
MEADOWBROOK COUNTRY CLUB
MEADOWBROOK PARK
RIDGEVIEW
BATTLE FIELD DR
POTENTIAL NOISE ABATEMENT AREA
SAINT AUGUSTINES COLLEGE
HILLINGTON WEST
SELLIE DR
HICKS RD
WHITE OAK RD
TO RALEIGH
-Y22- (I-40) TO BE CONSTRUCTED BY TIP I-5111
MATCHLINE THIS SHEET
70
TO CLAYTON
WILLIS RD
CORNWALLIS RD
NEW BETHEL RD
KYNDALLEE LN
INSET
MATCHLINE THIS SHEET
SEE INSET

–L–

PI STA 905+36.32
Δ = 5° 33′ 19.2″ (LT)
D = 0° 15′ 37.6″
L = 2,133.10′
T = 1,067.39′
R = 22,000.00′
SE = 0.02

PIs STA 967+80.50
θs = 3° 04′ 38.2″
Ls = 420.00′
LT = 280.04′
ST = 140.04′

PI STA 986+40.01
Δ = 47° 28′ 41.5″ (LT)
D = 1° 27′ 55.3″
L = 3,240.02′
T = 1,719.55′
R = 3,910.00′
SE = 0.06

PIs STA 1003+20.54
θs = 3° 31′ 00.8″
Ls = 480.00′
LT = 320.06′
ST = 160.06′

LEGEND

BUILDING
EXISTING RIGHT OF WAY
PROPOSED RIGHT OF WAY
PROPOSED EASEMENT (DRAINAGE, CONSTRUCTION, OR UTILITY)
EXISTING ROADWAY
EXISTING ROADWAY TO BE REMOVED
EXISTING ROADWAY TO BE RESURFACED
PROPOSED ROADWAY
TEMPORARY DETOUR
FUTURE ROADWAY
PROPOSED STRUCTURE, ISLAND OR CURB AND GUTTER
EXISTING STRUCTURE, ISLAND OR CURB AND GUTTER TO BE RETAINED
EXISTING STRUCTURE, ISLAND OR CURB AND GUTTER TO BE REMOVED
FUTURE STRUCTURE, ISLAND OR CURB AND GUTTER
LAKE, RIVER, STREAM OR POND
RAILROAD RIGHT OF WAY
EXISTING UTILITY EASEMENT
CEMETERY
PROPOSED CONTROL OF ACCESS
EXISTING CONTROL OF ACCESS
PRESENT ADT
FUTURE ADT
PROPERTY LINES
NOISE STUDY AREA
PROPOSED TOLL GANTRY
EXISTING TRAFFIC SIGNAL
PROPOSED TRAFFIC SIGNAL
HISTORIC PROPERTY BOUNDARY
WETLAND LIMIT BOUNDARY
FUTURE GREENWAY (TO BE CONSTRUCTED BY OTHERS)
EXISTING GREENWAY

PRELIMINARY PLANS
DO NOT USE FOR CONSTRUCTION

200′ 0′ 200′ 400′
SCALE: 1″ = 200′

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 ARE ALLOWED.

NOTE:
COMPLETE 540 PROJECT WILL BE TYING INTO WORK DONE BY FUTURE PROJECT I–5111.

NOISE STUDY AREA
THE LABELED AREAS INDICATE NOISE–SENSITIVE LOCATIONS FOR WHICH POTENTIAL SOUND BARRIERS HAVE BEEN IDENTIFIED. MORE DETAILED ANALYSES WILL OCCUR DURING FINAL PROJECT DESIGN TO DETERMINE WHETHER THESE POTENTIAL BARRIER LOCATIONS MEET THE REASONABLE AND FEASIBLE CRITERIA WITHIN THE NCDOT TRAFFIC NOISE ABATEMENT POLICY. IF THESE CRITERIA ARE MET, BARRIER CONSTRUCTION WILL OCCUR PENDING PUBLIC APPROVAL.

DESIGN DATA
FUNCTIONAL CLASSIFICATION = FREEWAY
DESIGN SPEED = 75 MPH
MAX. SUPERELEVATION = 0.08

ORTHOPHOTO DATA:
Flight Mission = M–7967
Flight Date = 03–07–16

DESIGN 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.A.TA1
WAKE & JOHNSTON COUNTIES
COMPLETE 540
TRIANGLE EXPRESSWAY SOUTHEAST EXTENSION
NC 55 BYPASS TO US 64 /264 BYPASS /I–495
MAP 6 OF 9
NORTH CAROLINA Turnpike Authority

DESIGN 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.A.TA1
WAKE & JOHNSTON COUNTIES
COMPLETE 540
TRIANGLE EXPRESSWAY SOUTHEAST EXTENSION
NC 55 BYPASS TO US 64 /264 BYPASS /I–495
MAP 6 OF 9
NORTH CAROLINA Turnpike Authority