INDUSTRY FORUM MAP

S.T.I.P. NO. R–2829A&B
FEDERAL AID PROJECT NO. STP–540(21)
WBS NOS. 35517.1.TA1

WAKE & JOHNSTON COUNTIES

COMPLETE 540
TRIANGLE EXPRESSWAY SOUTHEAST EXTENSION
I–40 TO I–87/US 64/US 264
MAP 1 OF 4

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
🟥	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	PRESENT ADT
0000	FUTURE ADT
═	PROPERTY LINES
▨	POTENTIAL NOISE ABATEMENT AREA
‖	PROPOSED TOLL GANTRY
🚦	EXISTING TRAFFIC SIGNAL
🚦	PROPOSED TRAFFIC SIGNAL
—WLB—	WETLAND LIMIT BOUNDARY
═	FUTURE GREENWAY (TO BE CONSTRUCTED BY OTHERS)
═	EXISTING GREENWAY

POTENTIAL NOISE ABATEMENT 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:
R–2829A PROJECT WILL BE TYING INTO WORK DONE BY PROJECTS I–5111 AND R–2828.

PRELIMINARY PLANS
DO NOT USE FOR CONSTRUCTION

200′ 0′ 200′ 400′
SCALE: 1″ = 200′

DESIGN DATA

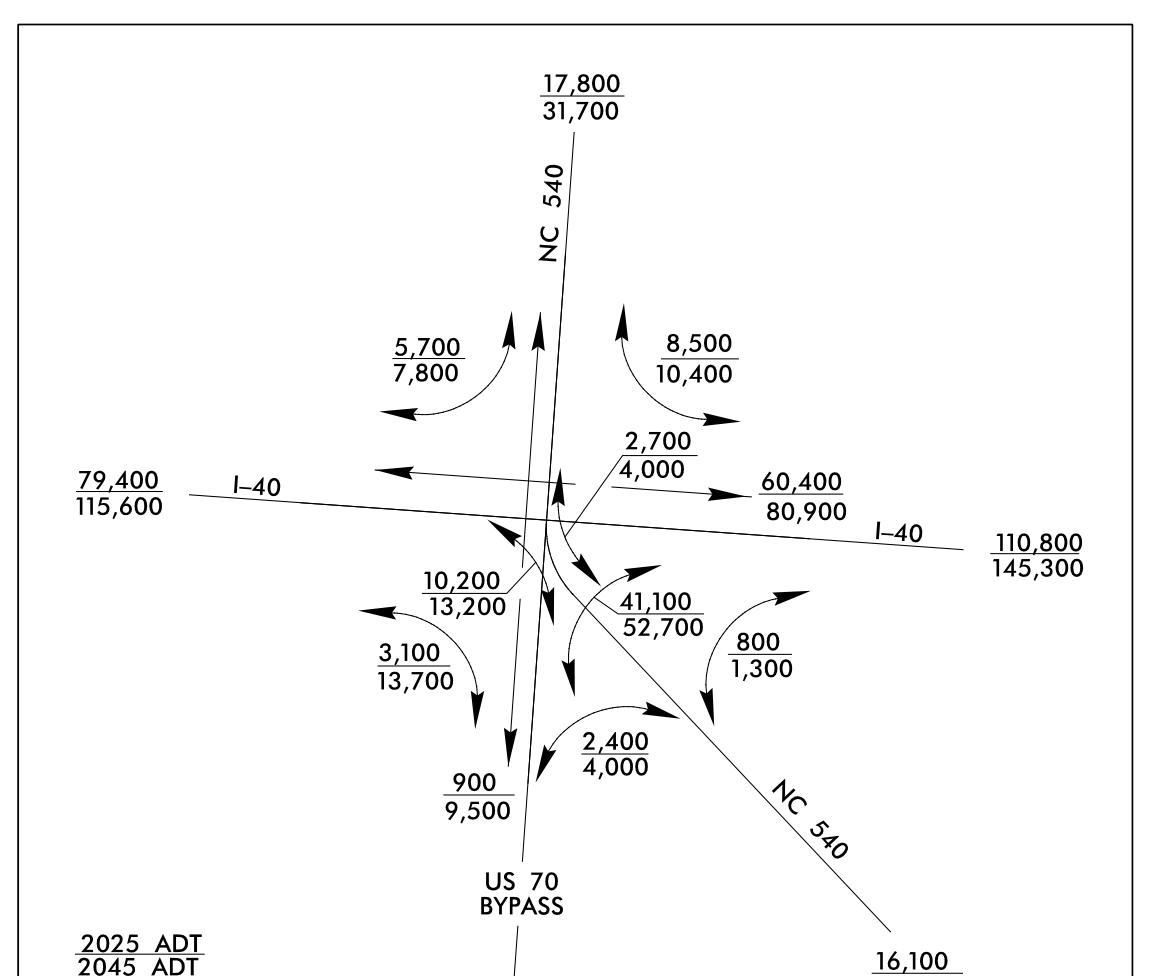
FUNCTIONAL CLASSIFICATION = FREEWAY
DESIGN SPEED = 75 MPH
MAX. SUPERELEVATION = 0.08

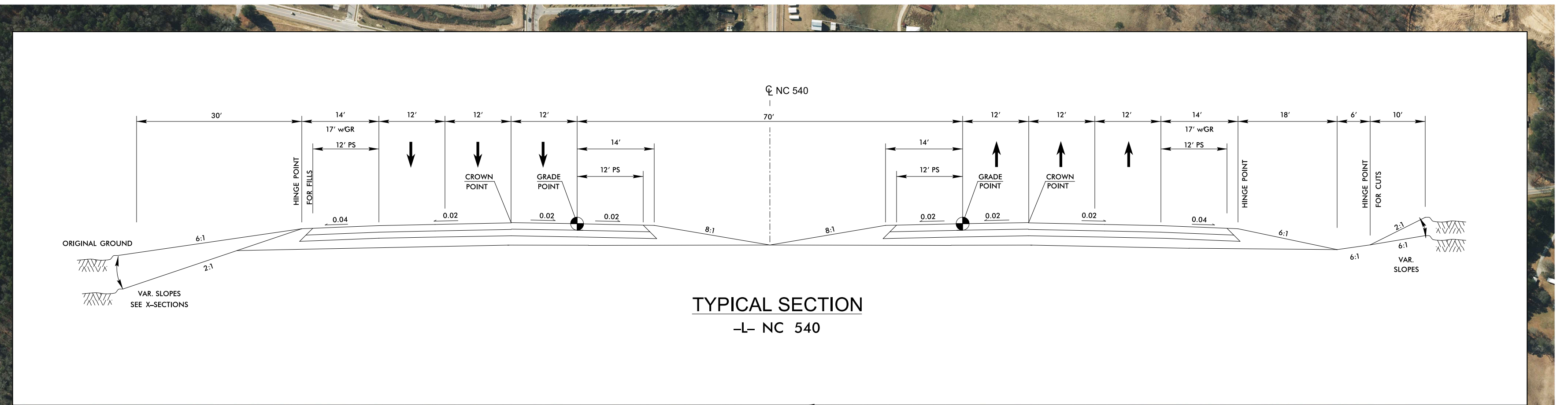
ORTHOPHOTO DATA:
NC OneMap
2021

UTILITY INFORMATION:
To provide greater visual clarity, existing and proposed utilities are not shown on these maps or on other displays. The utility information shown on these maps is limited to location of major existing and potential utility easements. The designs shown on these maps, including utility easements are preliminary and subject to change.

IN CASE OF A DISCREPENCY BETWEEN THE INDUSTRY FORUM MAPS AND PRELIMINARY DESIGN PLANS, THE PRELIMINARY DESIGN PLANS SHALL GOVERN.

NOTE:
ONLY DRAINAGE STRUCTURES THAT ARE 72″ OR LARGER ARE SHOWN. THEY INCLUDE BOTH CROSS PIPES FROM THE 2014 PRELIMINARY HYDRAULIC STUDY FOR ENVIRONMENTAL IMPACT AND ADDITIONAL PIPES ADDED DURING PRELIMINARY PLAN PREPARATION.


17,800
31,700
NC 540
5,700
7,800
8,500
10,400
79,400
115,600
I–40
2,700
4,000
60,400
80,900
I–40
110,800
145,300
10,200
13,200
41,100
52,700
3,100
13,700
800
1,300
2,400
4,000
900
9,500
NC 540
US 70
BYPASS
2025 ADT
2045 ADT
47,500
79,900
16,100
22,500


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

TYPICAL SECTION
–L– NC 540

MATCHLINE THIS SHEET - SEE INSET
-L_DBT- STA. 905+00.00
540
TOLL
40
TO BENSON
TO RALEIGH
TECHNOLOGY DR
FUTURE SWIFT CREEK GREENWAY
SWIFT CREEK
WAKE COUNTY
JOHNSTON COUNTY
CARDINAL PIPELINE
SR 5589
NEW BETHEL CHURCH RD
-Y22FLYCC-
-Y22RPC-
-Y22LPC-
-Y22SLIPRPB-
-Y22RPB-
-Y22-
-Y22RPD-
-Y22LPA-
-Y22RPA-
-Y22B-
-Y22RPAFLY-
-Y22RPE-
L_DBT
A
B
C
D
E
BEGIN PAVING
-Y22LPC- STA. 13+31.46
BEGIN PAVING
-Y22RPD- STA. 15+34.20
END CONSTRUCTION
-Y22RPA- STA. 36+88.33
END CONSTRUCTION
-Y22RPAFLY- STA. 65+19.33
END GRADING AND
BEGIN PAVING ONLY
-Y22RPA- STA. 26+00.00
BEGIN GRADING & PAVING
-Y22RPE- STA. 26+50.00
BEGIN PAVING
-Y22RPE- STA. 15+34.68
END S.T.I.P. R-2828
BEGIN S.T.I.P. R-2829A
-L_DBT- STA 965+50.00
-L_DBT- TS Sta. 964+93.78
-L_DBT- SC Sta. 969+73.78
DRAIN POND
DRAIN POND
PROPOSED RETAINING WALL
MATCH TO MAP 2 OF 4
-L_DBT- STA. 970+00.00
70
NEW BETHEL RD
BARRINGTON HILLS LN
BARRINGTON HILLS
OLD NORTH VINEYARD
MEADOWBROOK COUNTRY CLUB
MEADOWBROOK PARK
RIDGEVIEW
BATTLE FIELD DR
HILLINGTON WEST
SELLIE DR
HICKS RD
WHITE OAK RD
FUTURE SWIFT CREEK GREENWAY
SWIFT CREEK
FUTURE GREENWAY
-Y22SLIPRPB-
-Y22FLYCC-
TOLL
540
BEGIN CONSTRUCTION
-L_DBT- STA. 893+00
MATCHLINE THIS SHEET
-L_DBT- STA. 905+00.00
INSET

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
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
POTENTIAL NOISE ABATEMENT AREA
PROPOSED TOLL GANTRY
EXISTING TRAFFIC SIGNAL
PROPOSED TRAFFIC SIGNAL
WETLAND LIMIT BOUNDARY
FUTURE GREENWAY (TO BE CONSTRUCTED BY OTHERS)
EXISTING GREENWAY

POTENTIAL NOISE ABATEMENT 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.

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.

PRELIMINARY PLANS
DO NOT USE FOR CONSTRUCTION

200′ 0′ 200′ 400′
SCALE: 1″ = 200′

NOTE:
R–2829A PROJECT WILL BE TYING INTO WORK DONE BY PROJECTS I–5111 AND R–2828.

IN CASE OF A DISCREPENCY BETWEEN THE INDUSTRY FORUM MAPS AND PRELIMINARY DESIGN PLANS, THE PRELIMINARY DESIGN PLANS SHALL GOVERN.

NOTE:
ONLY DRAINAGE STRUCTURES THAT ARE 72″ OR LARGER ARE SHOWN. THEY INCLUDE BOTH CROSS PIPES FROM THE 2014 PRELIMINARY HYDRAULIC STUDY FOR ENVIRONMENTAL IMPACT AND ADDITIONAL PIPES ADDED DURING PRELIMINARY PLAN PREPARATION.

UTILITY INFORMATION:
To provide greater visual clarity, existing and proposed utilities are not shown on these maps or on other displays. The utility information shown on these maps is limited to location of major existing and potential utility easements. The designs shown on these maps, including utility easements are preliminary and subject to change.

ORTHOPHOTO DATA:
NC OneMap
2021

DESIGN DATA

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

INDUSTRY FORUM MAP
S.T.I.P. NO. R–2829A&B
FEDERAL AID PROJECT NO. STP–540(21)
WBS NOS. 35517.1.TA1
WAKE & JOHNSTON COUNTIES
COMPLETE 540
TRIANGLE EXPRESSWAY SOUTHEAST EXTENSION
I–40 TO I–87/US 64/US 264
MAP 1 OF 4
NORTH CAROLINA Turnpike Authority

INDUSTRY FORUM MAP
S.T.I.P. NO. R–2829A&B
FEDERAL AID PROJECT NO. STP–540(21)
WBS NOS. 35517.1.TA1
WAKE & JOHNSTON COUNTIES
COMPLETE 540
TRIANGLE EXPRESSWAY SOUTHEAST EXTENSION
I–40 TO I–87/US 64/US 264
MAP 1 OF 4
NORTH CAROLINA Turnpike Authority