# Type III Categorical Exclusion Action Classification Form

STIP Project No.	HL-0006
WBS Element	49365.1.1
Federal Project No.	N/A

## A. Project Description:

State Transportation Improvement Project (STIP) HL-0006 proposes to reconfigure multiple intersections along US 401 (N Main Street) into reduced conflict intersections (RCI) in the Town of Fuquay-Varina, Wake County. These intersections include SR 1393/SR 2752/SR 2751 (Hilltop-Needmore Road/Air Park Road/Hilltop Road), SR 1375 (Lake Wheeler Road), and SR 2753 (Dwight Rowland Road). The project also plans to realign SR 2571 (Hilltop Road) on new location away from the existing intersection with SR 1393 (Hilltop Needmore Road) and align the roadway across from SR 1375 (Lake Wheeler Road) at US 401 (N Main Street). Study Area Map is attached.

## B. <u>Description of Need and Purpose:</u>

The HL-0006 project is needed because the facilities are currently operating with significant delays and operational deficiencies. The purpose of the HL-0006 project will help reduce congestion and improve mobility along US 401 and the surrounding area.

The existing signalized intersection of US 401 (N Main Street) and SR 1393 (Hilltop Needmore Road) / SR 2751 (Hilltop Road) / SR 2752 (Air Park Road) is operating at LOS E during the AM peak hour. Stop controlled SR 1375 (Lake Wheeler Road) at US 401 (N Main Street) operates at LOS F during the PM peak hour and stop-controlled SR 2753 (Dwight Rowland Road) at US 401 (N Main Street) operates at LOS F during both peak hours. According to the forecasted AADT, traffic volumes are increasing (see Table 1 below).

Base Year Design Year (2045) No-Build Design Year (2045) Build (2020) No-Roadway Location Without Without With Bypass With Bypass Build **Bypass Bypass** US 401 (N Main St) N of SR 1393 46,600 46,900 37,900 27,900 37,800 US 401 (N Main St) N of SR 1375 22,800 42,100 34,800 46,300 35,600 53,100 US 401 (N Main St) S of SR 1375 27,900 45,500 53,100 45,400 SR 1393 (Hilltop Needmore Rd) W of US 401 9,600 12,900 12,600 10,400 10,300 W of SR SR 1393 (Hilltop Needmore Rd) 11,200 17,900 18,000 17,900 18,100 1375 SR 1375 (Lake Wheeler Rd) N of SR 1393 4,500 8,600 8,700 8,200 8,100 SR 1375 (Lake Wheeler Rd) S of SR 1393 5,500 11,800 11,500 14,600 14,800 SR 2751 (Hilltop Rd) E of US 401 5,100 7,400 6,000 9.000 7.000 SR 2752 (Air Park Rd) E of US 401 2.600 4.400 4.400 4.400 4.400

**Table 1. Forecasted AADT Data** 

The traffic operations analysis completed for this project indicates that without improvement, future intersection delays and queueing are well beyond acceptable levels.

## C. Categorical Exclusion Action Classification:

Type III

## D. Proposed Improvements:

This project includes an alternative intersection design where U.S. 401 meets Hilltop Needmore Road and Airpark Road / Hilltop Road and a realignment of Hilltop Road to intersect with U.S. 401 at Lake Wheeler Road with a new RCI. The proposed design also includes:

- 10-foot-wide multi-use path on the east side of U.S. 401 (see Figure 1);
- 5-foot-wide sidewalk on the west side of U.S. 401 (see **Figure 1**);
- Leftover access to Dwight Rowland Road (see Figure 2);
- RCI where U.S. 401 meets Lake Wheeler Road / Hilltop Road Extension (see Figure 3);
- Cul-de-sac the existing Hilltop Road at Air Park Road; and construct new roadway connection from the existing Hilltop Road to U.S. 401 aligned across from Lake Wheeler Road (Hilltop Road Extension).

Figure 1. U.S. 401 Proposed Cross Section

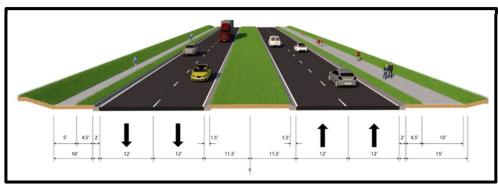


Figure 2. Dwight Roland Road Proposed Cross Section

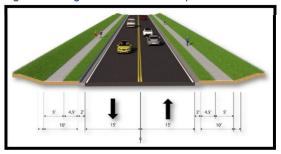
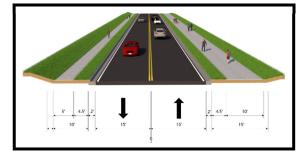


Figure 3. Lake Wheeler Road and Hilltop Road Extension Cross Section



# E. Special Project Information:

#### Alternatives

Two alternatives were analyzed with an option for each alternative to have either a traditional or reverse reduced conflict intersection (RCI) at the intersection of U.S. 401 and Hilltop-Needmore Road/Airpark Road. Alternative 1 had graded shoulders, a depressed median, and 60 mph design speed. Alternative 2 had curb and gutter, a raised median, and 55 mph design speed.

#### Public Involvement

Both alternatives were presented at a public meeting on August 9, 2022, where 53 individuals attended. A total of 37 comments and 41 survey responses were received during the comment period (August 9<sup>th</sup> – September 9<sup>th</sup> 2022). The preferred alternative, based on the public comment period, is curb and gutter (Alternative 2) with a reverse RCI at the intersection of U.S. 401 and Hilltop-Needmore Road/Airpark Road. The preferred alternative is also supported by staff from Town of Fuquay Varina, Capital Area Metropolitan Planning Organization (CAMPO), Wake County, and NCDOT.

## Integrated Mobility Division

NCDOT's Integrated Mobility Division reviewed the proposed designand recommended including multimodal accommodations with this project. Even though U.S. 401 is currently a high speed and high-volume corridor, local and regional plans have identified this area as needing multimodal connections. The proposed improvements include curb and gutter with bike and pedestrian accommodations comply with the PDN's Initial Complete Streets Review (1IM1) findings/recommendations from October 1, 2021.

## Archaeology and Historic Architecture

A survey required determination was made based on initial Historic Architecture and Archaeological Resources Review, dated August 2021. An archaeological survey, conducted between December 2021 and February 2022, indicated no archaeological resources eligible for the National Register present within the Area of Potential Effects (APE) (see attached). One potential Historic Architecture resource within the project's APE warranted a National Register eligibility evaluation, the Daniel Farm (WA1118). The Daniel Farm was previously recommended to the State Study List as part of a Wake County survey update in 2015 as a potentially eligible representation of a twentieth-century tobacco-related landscape. This property was determined not eligible for the National Register of Historic Places because the house has undergone numerous and significant alterations, and the farm no longer retains its association with agriculture. A concurrence letter from North Carolina State Historic Preservation Office, dated May 19, 2022, agreed with these findings (see attached).

#### **Tribal Coordination**

Correspondence was sent to Dr. Wenonah G. Haire, Executive Director of the Catawba Indian Nation Tribal Historic Preservation Office on August 9, 2021. Are sponse was received on October 17, 2021, "The Catawba have no immediate concerns with regard to traditional cultural properties, sacred sites or Native American archaeological sites within the boundaries of the proposed project areas."

#### Streams and Wetlands

Anticipated impacts to streams and wetlands from the preferred alternative were quantified by offsetting the slopestake line by twenty-five feet along the entirety of the project limits. The total wetland impacts are 0.66 acres and total stream impacts are 3,067 linear feet (0.35 acres). Neuse River riparian buffers are present and impacts were assumed for the entirety of Zone 1 and Zone 2 along impacted streams. The majority of the estimated impact is anticipated along the new location of Hilltop Road. Detailed information about site streams and wetlands can be found in the October 2021 NRTR.

## Hydraulics

A Hydraulic Preliminary Report (approved 12/01/21) evaluated the existing major hydraulic structures and any necessary new hydraulic structures needed for the new location part of the project. Below is a summary of the preliminary findings (Table 2). As final design progresses, the sizes and extensions may be refined further with coordination with the Division and Hydraulics Unit.

**Table 2. Hydraulic Structures** 

Stream	Drainage Area (sq. mi.)	Q50 (cfs)	Q100 (cfs)	Existing Structure	Recommended Structure
UT to Terrible Creek at US 401	0.27	260	290	1@7'x5' RCBC	Retain & Extend 1 @ 7' x 5' RCBC
UT to Terrible Creek	0.18	190	210	None	1 @ 7' x 6' RCBC buried 1'
Terrible Creek at US 401	7.85	2600	3500	3@10'x8' RCBC	Retain & Supplement w/1 @ 10' x 8' RCBC

Wake County is a participant in the FEMA's National Flood Insurance Program. Based on the current information available from the NC Floodplain Mapping Program (FMP), the project corridor crosses the designated flood hazard zone of Terrible Creek. No adverse impacts to the flood zone are anticipated.

# F. Project Impact Criteria Checklists:

F3.	F3. Type III Actions						
	Proposed improvement(s) that fit Type III Actions (NCDOT-FHWA CE Programmatic Agreement, Appendix C) answer questions below.						
• 1	NCDOT will certify the Categorical Exclusion for FHWA approval. f any questions are marked "Yes" then additional information will be required for those Section G.	questic	ons in				
р		Yes	No				
1	Does the project involve potential effects to Threatened or Endangered species listed by the US Fish and Wildlife Service (USFWS) or National Marine Fisheries Service (NMFS)?	V					
2	Does the project result in impacts subject to the conditions of the Bald and Golden Eagle Protection Act (BGEPA)?		V				
3	Does the project generate substantial controversy or public opposition, for any reason, following appropriate public involvement?		$\overline{\mathbf{V}}$				
4	Does the project cause disproportionately high and adverse impacts relative to low-income and/or minority populations?		$\overline{\checkmark}$				
5	Does the project involve substantial residential or commercial displacements or right of way acquisition?	$\overline{\mathbf{A}}$					
6	Does the project include a determination under Section 4(f)?		V				
7	Is a project-level analysis for direct, indirect, or cumulative effects required based on the NCDOT community studies screening tool?	$\overline{\mathbf{A}}$					
8	Does the project impact anadromous fish spawning waters?		$\overline{\mathbf{V}}$				
9	Does the project impact waters classified as Outstanding Resource Waters (ORW), High Quality Waters (HQW), Water Supply Watershed Critical Areas, 303(d)-listed impaired water bodies, buffer rules, or submerged aquatic vegetation (SAV)?						
10	Does the project impact Waters of the United States in any of the designated mountain trout streams?		V				
11	Does the project require a US Army Corps of Engineers (USACE) Individual Section 404 Permit?	$\overline{\mathbf{A}}$					
12	Will the project require an easement from a Federal Energy Regulatory		$\overline{\mathbf{V}}$				

13	Obes the project include Section 106 of the National Historic Preservation Act (NHPA) effects determination other than a No Effect, including archaeological remains?		$\checkmark$		
14	Does the project involve GeoEnvironmental Sites of Concerns such as gas stations, dry cleaners, landfills, etc.?				
15	Does the project require work encroaching and adversely effecting a regulatory floodway or work affecting the base floodplain (100-year flood) elevations of a water course or lake, pursuant to Executive Order 11988 and 23 CFR 650 subpart A?		$\overline{\mathbf{V}}$		
16	Is the project in a Coastal Area Management Act (CAMA) county and substantially affects the coastal zone and/or any Areas of Environmental Concern (AEC)?		V		
Туре	e III Actions (continued)	Yes	No		
17	Does the project require a US Coast Guard (USCG) permit?		$\overline{\checkmark}$		
18	Does the project involve construction activities in, across, or adjacent to a designated Wild and Scenic River present within the project area?		V		
19	Does the project involve Coastal Barrier Resource Act (CBRA) resources?		<b>V</b>		
20	Does the project impact federal lands (e.g. US Forest Service (USFS), US Fish and Wildlife Service (USFWS), etc.) or Tribal (Trust) Lands?		$\overline{\checkmark}$		
21	Does the project involve any changes in access control or the modification or construction of an interchange on an interstate?		V		
22	Does the project have a permanent adverse effect on local traffic patterns or community cohesiveness?		$\overline{\checkmark}$		
23	Will maintenance of traffic cause substantial disruption?		<b>V</b>		
24	Is the project inconsistent with the STIP, and where applicable, the Metropolitan Planning Organization's (MPO's) Transportation Improvement Program (TIP)?		V		
25	Does the project require the acquisition of lands under the protection of Section 6(f) of the Land and Water Conservation Act, the Federal Aid in Fish Restoration Act, the Federal Aid in Wildlife Restoration Act, TVA, Tribal Lands, or other unique areas or special lands that were acquired in fee or easement with public-use money and have deed restrictions or covenants on the property?				
26	Does the project involve Federal Emergency Management Act (FEMA) buyout properties under the Hazard Mitigation Grant Program (HMGP)?		$\overline{\checkmark}$		
27	Is the project considered a Type I under the NCDOT's Noise Policy?	V			
28	Is there prime or important farmland soil impacted by this project as defined by the Farmland Protection Policy Act (FPPA)?	V			
29	Is the project in an Air Quality non-attainment or maintenance area for a National Ambient Air Quality Standard (NAAQS)?	V			
30	Are there other issues that arose during the project development process that affected the project decision?		<b>V</b>		

## F. Additional Documentation as Required from Section F (ONLY for questions marked 'Yes'):

# **Checklist Item 1: Protected Species**

The USFWS lists the following federally protected species under the Endangered Species Act (ESA). For each species, a discussion of the presence or absence of habitat is included below along with the Biological Conclusion rendered based on survey results. The federally protected species were evaluated in the NRTR, dated October 2021. However, the species list on IPaC has been updated, and an aquatics report was received after the NRTR was finalized, see Table 3 below.

Table 3. ESA Federally Protected Species Listed<sup>1</sup> for Wake County

Scientific Name	Common Name	Federal Status <sup>2</sup>	Habitat Present	Biological Conclusion
Notropis mekistocholas	Cape Fear shiner	E	No	No Effect
Noturus furiosus	Carolina madtom	E	Marginal	MA-NLAA
Necturus lewisi	Neuse River waterdog	T	Marginal	MA-NLAA
Fusconaia masoni	Atlantic pigtoe	T	Marginal	MA-NLAA
Alasmidonta heterodon	dwarf wedgemussel	E	Marginal	MA-NLAA
Parvaspina steinstansana	Tar River spinymussel	E	No	No Effect
Elliptio lanceolata	yellow lance	T	Marginal	MA-NLAA
Rhus michauxii	Michaux's sumac	E	Yes	No Effect
Perimyotis subflavus	tricolored bat <sup>3</sup>	PE	Yes	Not required
Myotis septentrionalis	Northern long-eared bat <sup>4</sup>	E	Not Applicable	MA-LAA

<sup>&</sup>lt;sup>1</sup> IPaC accessed on 1/24/23,

Based on an Aquatic Species Survey Report dated June 9, 2022, Atlantic pigtoe, yellow lance, dwarf wedgemussel, Neuse River waterdog, and Carolina madtom received a "may affect, not likely to adversely affect" designation. Biological conclusions of May Affect Not Likely to Adversely Affect will require informal consultation with the USFWS.

The USFWS has revised the previous programmatic biological opinion (PBO) in conjunction with the Federal Highway Administration (FHWA), the US Army Corps of Engineers (USACE), and NCDOT for the northern long-eared bat (NLEB) (Myotis septentrionalis) in eastern North Carolina (December 15, 2022). The Revised PBO covers the entire NCDOT program in Divisions 1-8, including all NCDOT projects and activities. Although this programmatic covers Divisions 1-8, NLEBs are currently only known to occur in 27 counties but may potentially occur in 3 additional counties within Divisions 1-8 (note: Division 5 is not located within any of these 30 counties). NCDOT, FHWA, and USACE have agreed to two Conservation Measures which will avoid/minimize mortality of NLEBs. These Conservation Measures only apply to the 30 current known/potential counties shown on Figure 2 of the Revised PBO and do not include any parts of Division 5. NCDOT, FHWA, and USACE have agreed to three Monitoring and Reporting Requirements to monitor the impacts of incidental take. All projects in Division 5 where planning has commenced after May 5, 2023 must adhere only to Monitoring and Reporting Requirement 3.

NCDOT staff and/or consultants must follow the NCDOT Bat Habitat Assessment SOP by filling out Bat Habitat Assessment Forms for projects that affect bridges and culverts. These forms will be submitted to NCDOT Biological Surveys Group (BSG) using the Survey 123 application or emailed to clknepp@ncdot.gov. BSG staff will enter the forms into its database even if no bat presence is detected. If NLEBs are detected at a bridge or culvert, the Service will be notified.

The programmatic determination for NLEB for the NCDOT program is May Affect, Likely to Adversely Affect. The PBO provides incidental take coverage for NLEB and will ensure compliance with Section 7 of the Endangered Species Act for ten years for all NCDOT projects with a federal nexus in Divisions 1-8. This level of incidental take is authorized from the effective date of a final listing determination through December 31, 2030.

<sup>&</sup>lt;sup>2</sup> E – Endangered, T – Threatened, ,PE – Proposed Endangered, MA-NLAA – May affect, not likely to adversely affect.

<sup>&</sup>lt;sup>3</sup> This was added as proposed endangered after the NRTR was completed. NCDOT will resolve Section 7 prior to project letting.

<sup>&</sup>lt;sup>4</sup> Northern long-eared bat is not listed in IPaC.

## **Checklist Item 5: Residential or Commercial Displacements**

The proposed project would result in partial impacts to 71 properties and 2 full property acquisitions. Most of the partial impacts are along US 401 for additional right-of-way necessary for the proposed improvements. The two full property acquisitions are both residential and located at:

- 5656 Cardinal Street
- 5726 Hilltop Road

#### Checklist Item 7: ICE

This project proposes intersection improvements of US 401 at SR 1393 Hilltop Needmore Road)/SR 2752 (Airpark Road), at SR 1375 (Lake Wheeler Road), and at SR 2573 (Dwight Rowland Road). In additional, a realignment of SR 2571 (Hilltop Road) on new location to intersect opposite SR 1375 (Lake Wheeler Road) is proposed. The ICE analysis rated several of the criteria as medium-high to low for potential indirect effects, with a total score of 12, indicating *Land Use Scenario Assessment Not Likely*.

At the time of this report, the proposed project is not anticipated to have notable indirect effects on development populations and patterns. These findings are based primarily on the low employment growth (0.6 percent), existing policies that manage anticipated growth, and the unlikeliness to adversely affect notable environmental features present in the FLUSA. Because few indirect impacts are anticipated, the contribution of this project to cumulative impacts resulting from past, present, and future actions is expected to be minimal.

#### **Checklist Item 9: Water Resources**

Streamside riparian zones within the study area are protected under provisions of the Neuse River Buffer Rules administered by the North Carolina Division of Water Resources (NCDWR). A summary of streams within the study area and buffer status are shown in Table 4.

Table 4. Status of Ponds and Streams in the Study Area

Tuble 4. Status of Folias and Streams in the Stady Area							
Map ID	Figure Number	Length (ft.)^	Classification	River Basin Buffer			
Terrible Creek	3B/3D	1,424	Perennial	Subject			
SA	3B/3E	2,240	Intermittent	Subject			
SB	3C	126	Intermittent	Not Subject			
SC	3C	533	Intermittent	Subject			
SC	3C	1,067	Perennial	Subject			
SD	3C	295	Intermittent	Not Subject			
SE	3D	370	Perennial	Subject			
SF	3D	110	Intermittent	Not Subject			
SG	3D	93	Intermittent	Subject			
SH	3D	113	Intermittent	Subject			
SH	3D	1,654	Perennial	Subject			
SI	3D	67	Intermittent	Not Subject			
PA	3B			Subject			
PB	3D			Subject			
PC	3D			Not Subject			
	Total	8,092	^Linear footage is approximate, not based on survey.				

## Checklist Item 11: Waters of the US

This project will require an US Army Corps of Engineers (USACE) Individual Section 404 Permit based on initial wetland and stream impacts estimated at 0.88 acres, greater than the 0.5-acre threshold for Nationwide Permit 14-Linear Transportation. See tables 5 and 6 below for estimated wetland and stream impacts, all impact calculations are based on the preferred alternative and quantified by offsetting the slope stakes twenty-five feet.

**Table 5. Estimated Stream Impacts** 

Map ID	NCSAM Rating	Estimated Impact (Acres)
Terrible Creek	High	0.064
SA	High	0.002
SB	High	0
SC	Low	0
SC	High	0.086
SD	High	0.023
SE	High	0.007
SF	Low	0.002
SG	Low	0
SH	High	0
SH	High	0.090
SI	Low	0.007

**Table 6. Estimated Wetland Impacts** 

Map ID	NCWAM Classification	NCWAM Rating	Estimated Impact (Acres)
WA	Headwater Forest	Low	0
WB	Headwater Forest	Medium	0.036
WC	Bottomland Hardwood Forest	High	0
WD	Bottomland Hardwood Forest	Low	0.124
WE	Bottomland Hardwood Forest	Low	0
WF	Bottomland Hardwood Forest	Low	0
WG	Bottomland Hardwood Forest	High	0.244
WH	Bottomland Hardwood Forest	High	0.163
WI	Headwater Forest	Low	0
WJ	Headwater Forest	Low	0.011
WK	Bottomland Hardwood Forest	Low	0.048
WL	Bottomland Hardwood Forest	Low	0
WM	Bottomland Hardwood Forest	High	0
WN	Headwater Forest	Low	0.003
WO	Bottomland Hardwood Forest	High	0
WP	Bottomland Hardwood Forest	High	0.016
WQ	Headwater Forest	Medium	0
WR	Headwater Forest	Low	0.010
WS	Bottomland Hardwood Forest	High	0

#### Checklist Item 14: GeoEnvironmental Sites of Concern

A field investigation was performed on November 11, 2021, to identify geoenvironmental sites of concern. Seven (7) sites of concern were identified within the proposed Study Area. The results of this investigation anticipate low monetary and scheduling impacts resulting from these sites.

- Site #1, 401 Inspections & Alignment, is located at 10125 Fayetteville Road (U.S. 401)
- Site #2, Hilltop Citgo Gas Station, is located at 3400 N Main Street (U.S. 401)
- Site #3, Crossroads Ford, is located at 3127 N Main Street (U.S. 401)
- Site #4, Walter Residence LUST Site, is located at 3201 N Main Street (U.S. 401)
- Site #5. Heister Chevrolet, is located at 3100 N Main Street (U.S. 401)
- Site #6, Caliber Collision, is located at 3100 N Main Street (U.S. 401)
- Site #7, Inline Auto Sale, is located at 2900 N Main Street (U.S. 401)

#### Checklist Item 27: Noise

The source of this traffic noise information is *HL-0006 Traffic Noise Report, Improvements of US 401 at SR 1393/SR 2752, at SR 1375, and at SR 2573* (VHB, April 2023).

# Traffic Noise Impacts

The maximum number of receptors in each project alternative predicted to become impacted by future traffic noise is shown in the table below. Table 7 includes those receptors expected to experience traffic noise impacts by either approaching or exceeding the FHWA Noise Abatement Criteria or by a substantial increase in exterior noise levels as defined in the NCDOT Traffic Noise Policy.

Table 7. Predicted Traffic Noise Impacts by Alternative\*

Traffic Noise Impacts							
Alternative	Residential (NAC B)	Places of Worship/Schools, Parks, etc. (NAC C & D)	Businesses (NAC E)	Total			
Build 1	32	0	0	32			

<sup>\*</sup>Per TNM 2.5 and in accordance with 23 CFR Part 772

## Traffic Noise Abatement Measures

Measures for reducing or eliminating the traffic noise impacts, including noise barriers, were considered for all impacted receptors in each alternative. Noise barriers include two basic types: earthen berms and noise walls. These structures act to diffract, absorb, and reflect highway traffic noise.

## Noise Barriers

A noise barrier evaluation was conducted for this project utilizing the Traffic Noise Model (TNM 2.5) software developed by the FHWA. Table 8 summarizes the results of the evaluation.

v2019.1 **HL-0006** Type III CE Page 9

**Table 8. Preliminary Noise Barrier Evaluation Results** 

NSA	Noise Barrier Location	Length / Height <sup>1</sup> (feet)	Square Footage	Number of Benefited Receptors	Square Feet per Benefited Receptor / Allowable Square Feet per Benefited Receptor	Preliminarily Feasible and Reasonable ("Likely") for Construction <sup>2</sup>
NSA 5	NW 1 - Adjacent to US 401 southbound lanes, between 3101 N Main St and Lake Wheeler Drive.	699/8	5,943	4	1,486 / 1,500	Yes
NSA 9	NW 2 – Adjacent to US 401 southbound lanes, between Lake Wheeler Drive and 3201 N Main St	673/14	9,431	3	3,144 / 1,500	No <sup>3</sup>

<sup>&</sup>lt;sup>1</sup>Average wall height. Actual wall height at any given location may be higher or lower.

A traffic noise evaluation was performed that identified one (1) noise barrier that preliminarily meets feasibility and reasonableness criteria found in the NCDOT Traffic Noise Policy. A more detailed analysis will be completed during project final design. Noise barriers preliminarily found to be feasible and reasonable during the preliminary noise analysis may not be found to be feasible and reasonable during the final design noise analysis due to changes in proposed project alignment and other design considerations, surrounding land use development, or utility conflicts, among other factors. Conversely, noise barriers that preliminarily were not considered feasible and reasonable may meet the established criteria and be recommended for construction. This evaluation was conducted in accordance with the highway traffic noise requirements of Title 23 CFR Part 772.

In accordance with NCDOT Traffic Noise Policy, the Federal/State governments are not responsible for providing noise abatement measures for new development for which building permits are issued after the Date of Public Knowledge. The Date of Public Knowledge of the proposed highway project will be the approval date of the Categorical Exclusion (CE). NCDOT strongly advocates the planning, design and construction of noise-compatible development and encourages its practice among planners, building officials, developers and others.

## **Checklist Item 28: Farmland**

A preliminary screening of farmland conversion impacts in the project area has been completed (NRCS Form CPA-106, Part VI only) and a total score of 45 out of 160 points was calculated for the corridor project site. Since the total site assessment score does not exceed the 60-point threshold established by NRCS, farmland conversion impacts may be anticipated, but are not considered notable.

#### **Checklist Item 29: NAAQS**

According to EPA's Green Book data, Wake County is fully in attainment and/or maintenance for all particulates. CAMPO confirmed HL-0006 is included in the adopted MTP as projects A664 and A664a. A664 is the relocation of Hilltop Road and included in the MPO's adopted Travel Demand Model (TRMG2) as a first decade project. The A664a project represents the RCI treatments along US 401. CAMPO considers the RCI improvements as operational improvements and as such are not required to be part of CAMPO's model or AQ process.

<sup>&</sup>lt;sup>2</sup>The likelihood of a barrier's construction is preliminary and subject to change, pending completion of final design and the public involvement process.

<sup>&</sup>lt;sup>3</sup>Barrier is not reasonable due to the quantity per benefited receptor exceeding the allowable quantity per benefited receptor.

# G. Project Commitments (attach as Green Sheet to CE Form).

# NCDOT PROJECT COMMITMENTS

# STIP Project No.

**HL-0006** 

HL-0006 proposes to reconfigure multiple intersections into a reduced conflict intersection (RCI) design along US 401 (N Main Street) in Fuquay Varina. The project also plans to realign SR 2571 (Hilltop Road) away from the existing intersection to across from SR 1375 (Lake Wheeler Road).

Wake County
Federal Aid Project No. N/A
WBS Element 49365.1.1

## **NCDOT Geotechnical Engineering Unit**

The sites of concern identified in the GeoEnvironmental Phase I Report, dated December 24, 2021, should be reviewed by the GeoEnvironmental Section of the Geotechnical Engineering Unit once the Final Right of Way (ROW) plans are complete to determine if Phase II Investigations and ROW Recommendations are necessary prior to ROW being acquired.

#### **NCDOT Division 5**

NCDOT has agreed to include an automated gate for the cul-de-sac on Hilltop Road for Emergency Vehicle access only.

NCDOT has agreed to include depressed, mountable islands at the intersections of Hilltop Needmore/US 401/Air Park Rd. and Hilltop Ext./US 401/Lake Wheeler Rd intersections.

NCDOT Division 5 will coordinate with the Traffic Noise and Air Quality Group during the final design phase on any major alignment revisions.

NCDOT Division 5 will resolve Section 7 for tricolored bat prior to project letting.

# **Categorical Exclusion Approval:**

STIP Project No.	HL-0006
WBS Element	49365.1.1
Federal Project No.	. N/A
Prepared By:  5/16/2023  Date	Justica Luttur  Jessica Luther, El Transportation Analyst  VHB
Prepared For:	Zahid Baloch, PE NCDOT Division 5
Reviewed By: 5/16/2023  Date	Zabid Balock  5F9297F958C0481  Zahid Baloch, PE, Division 5 Senior Project Engineer North Carolina Department of Transportation
Approve	
✓ Certifie	If classified as Type III Categorical Exclusion.
	Beth Quinn, Ph.D., PE, Division 5 Team Lead North Carolina Department of Transportation
FHWA Approved: F	For Projects Certified by NCDOT (above), FHWA signature required.
	Docusigned by:  Joseph P. Leigle  24DC2BFCA6934B0  John F. Sullivan, III, PE, Division Administrator
	Federal Highway Administration

Note: Prior to ROW or Construction authorization, a consultation may be required (please see Section VII of the NCDOT-FHWA CE Programmatic Agreement for more details).

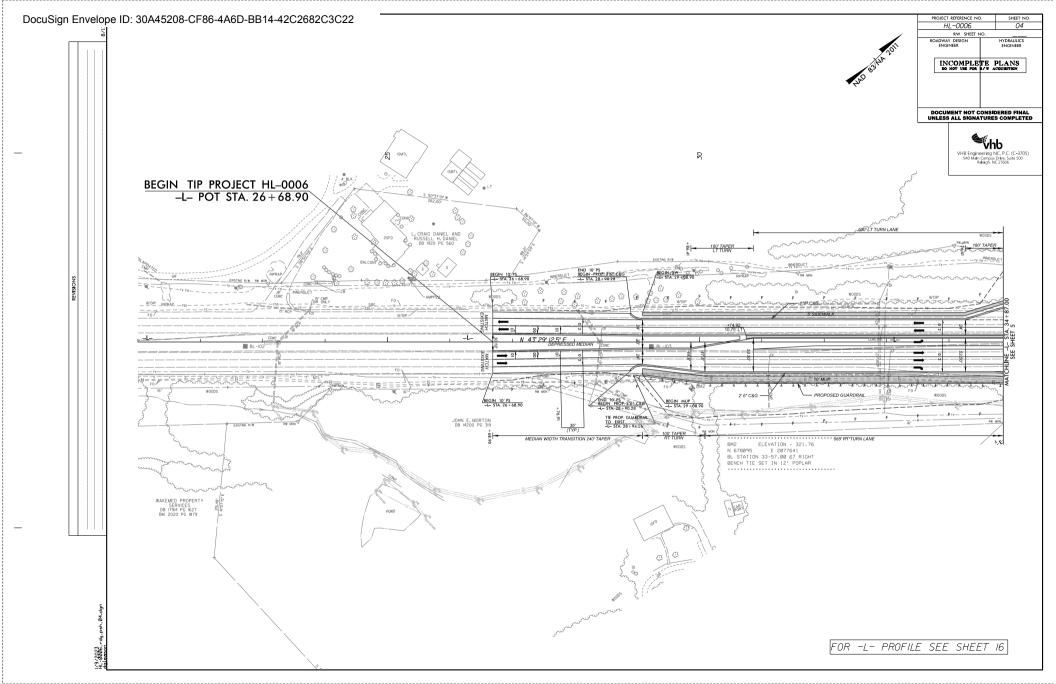
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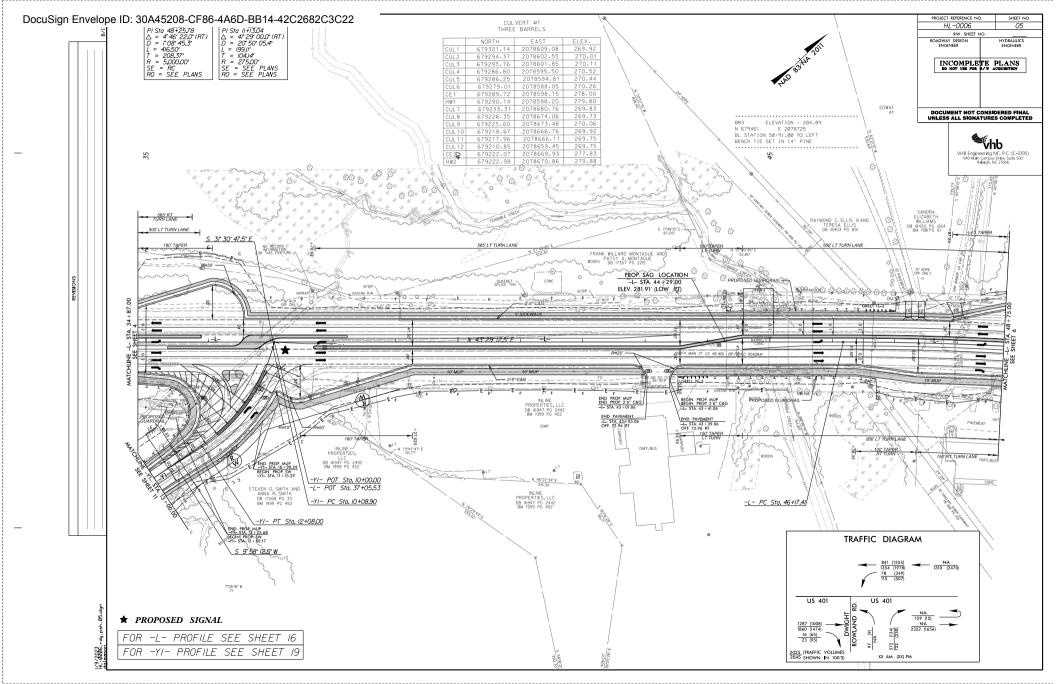
750

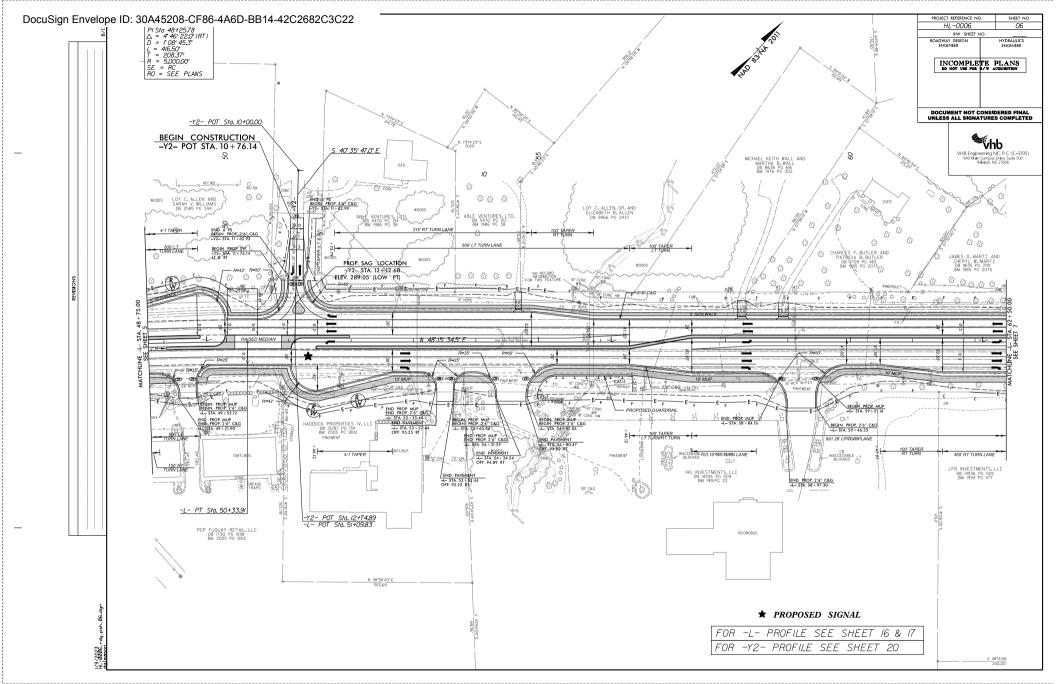
HL-0006 **NCDOT Division 5** ESRI Aerial Basemap

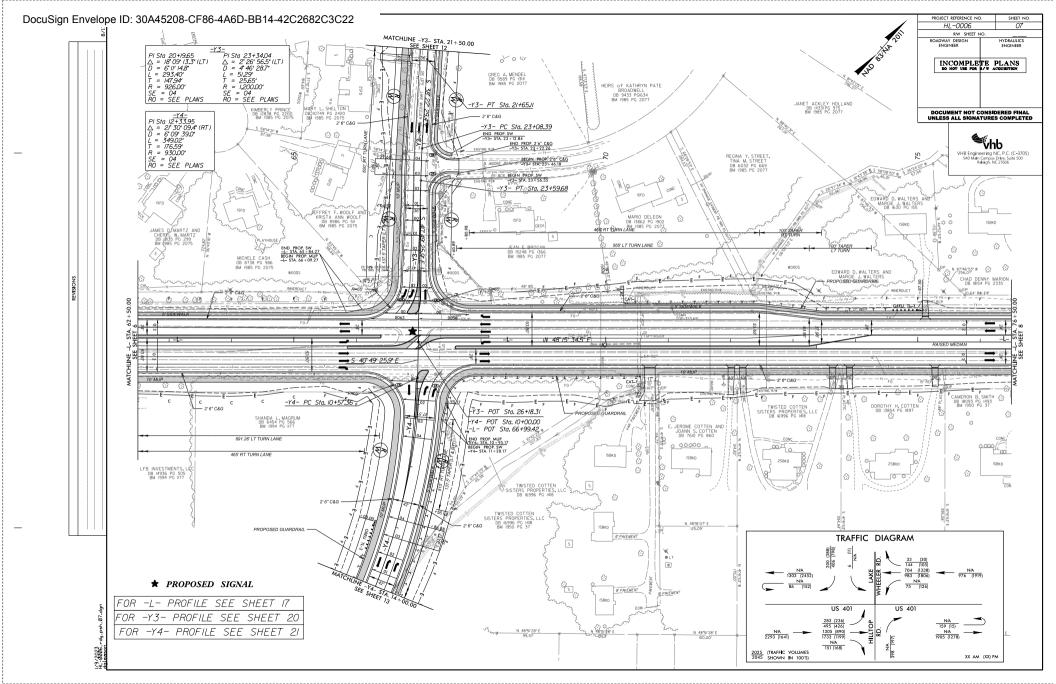
Wake County, NC

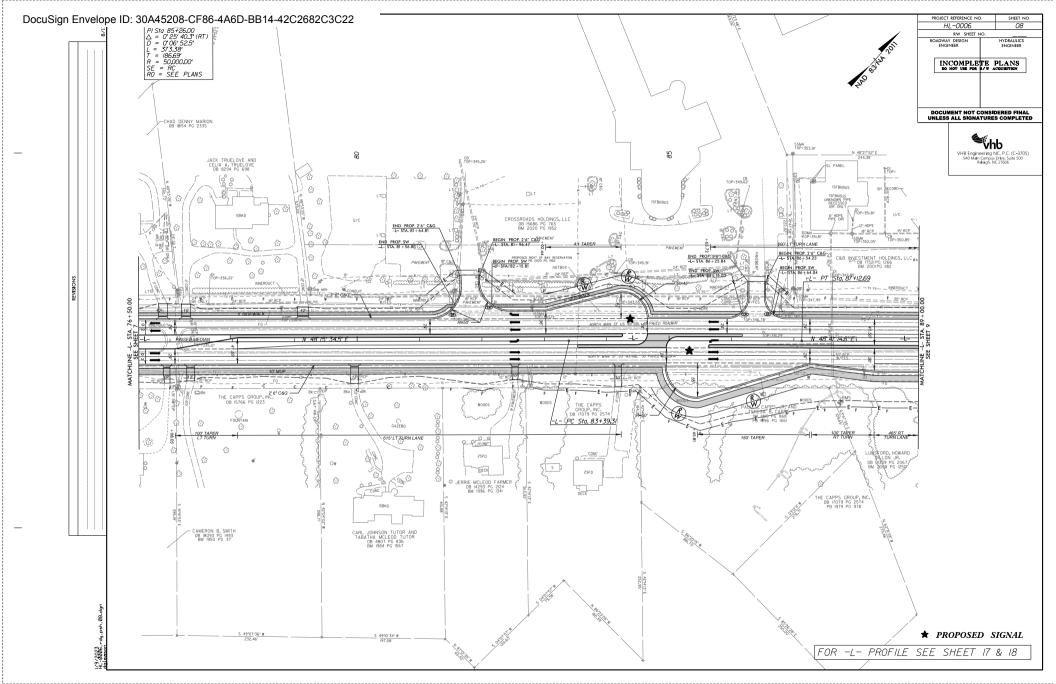
**Environmental Features Map** 

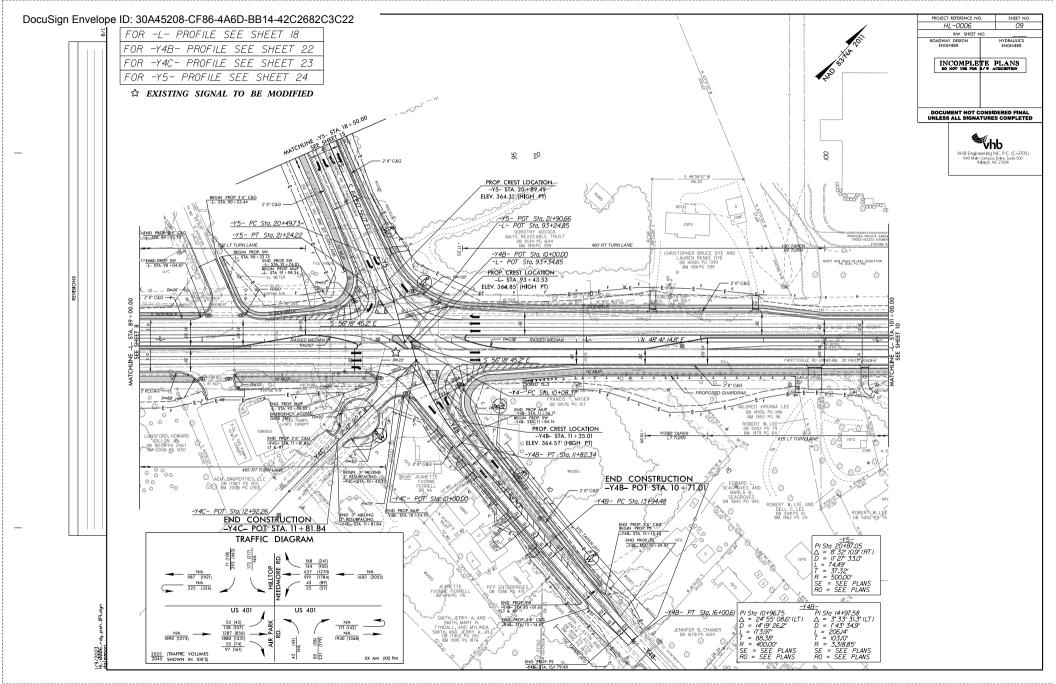


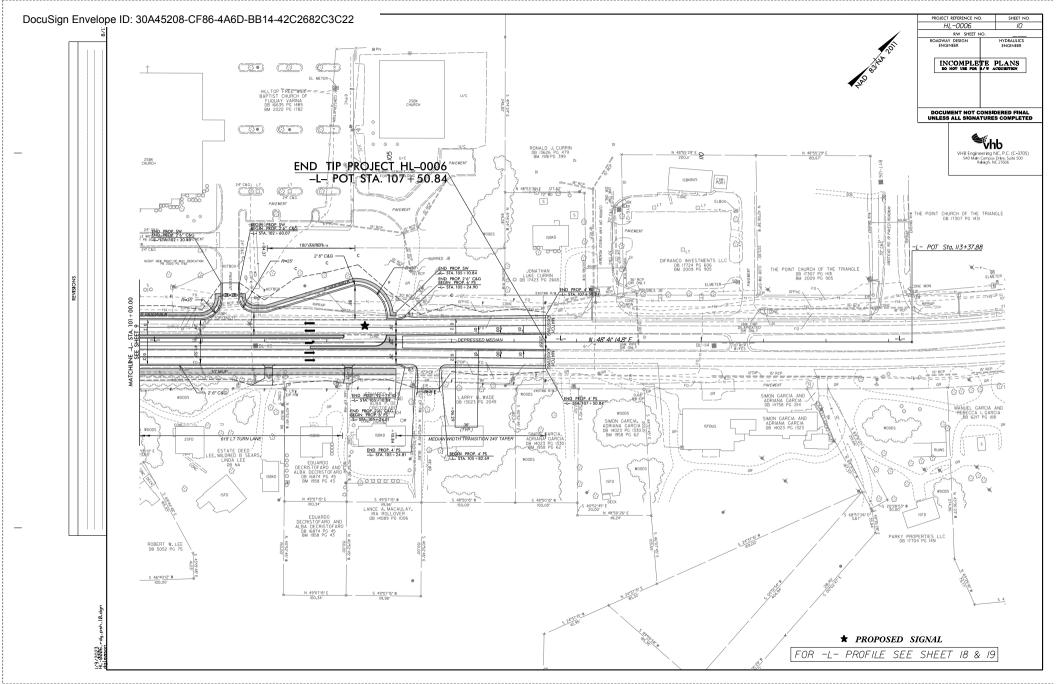


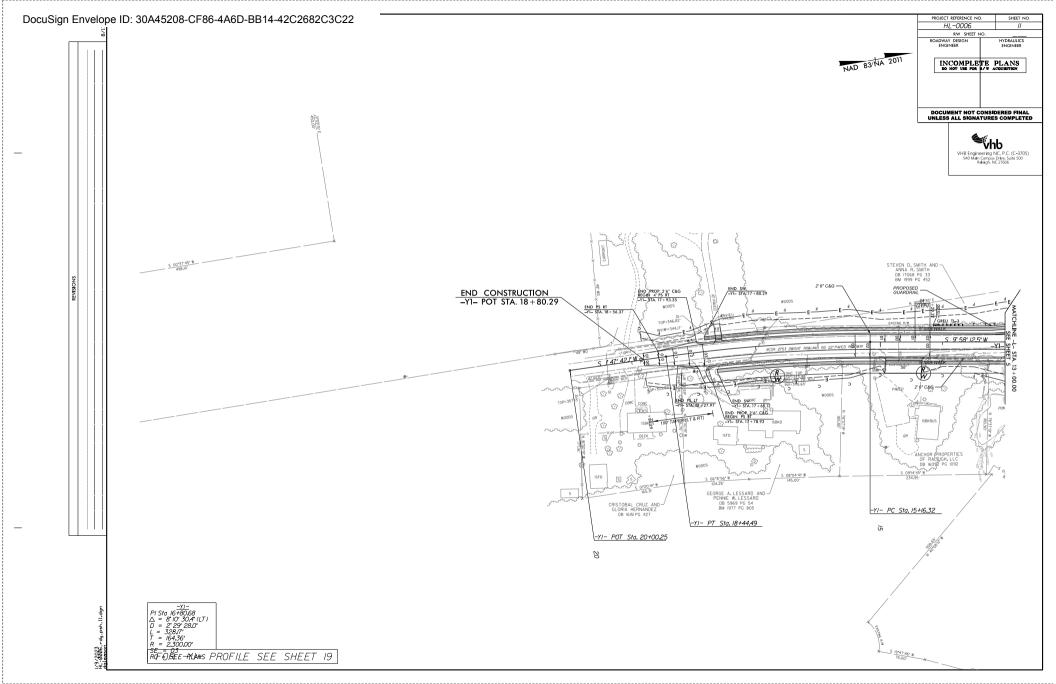


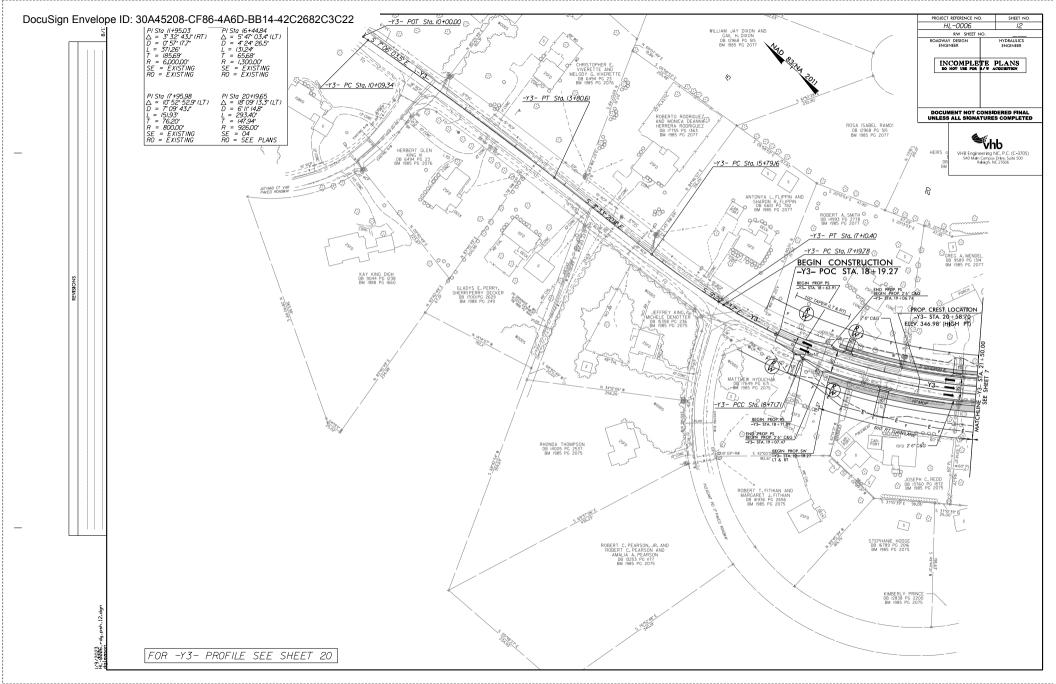


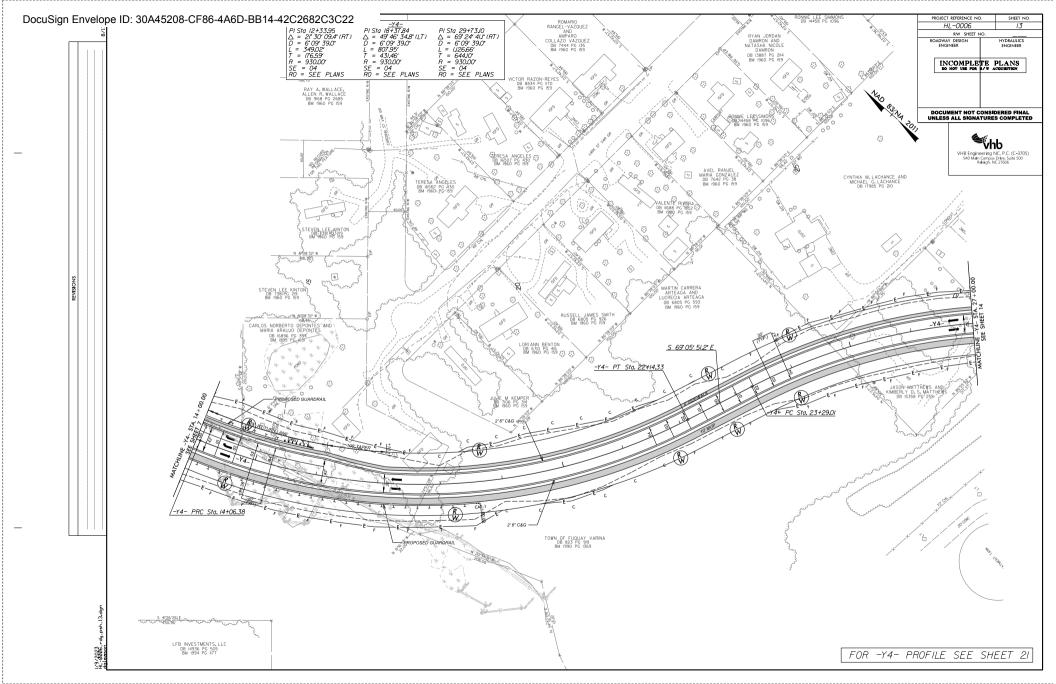


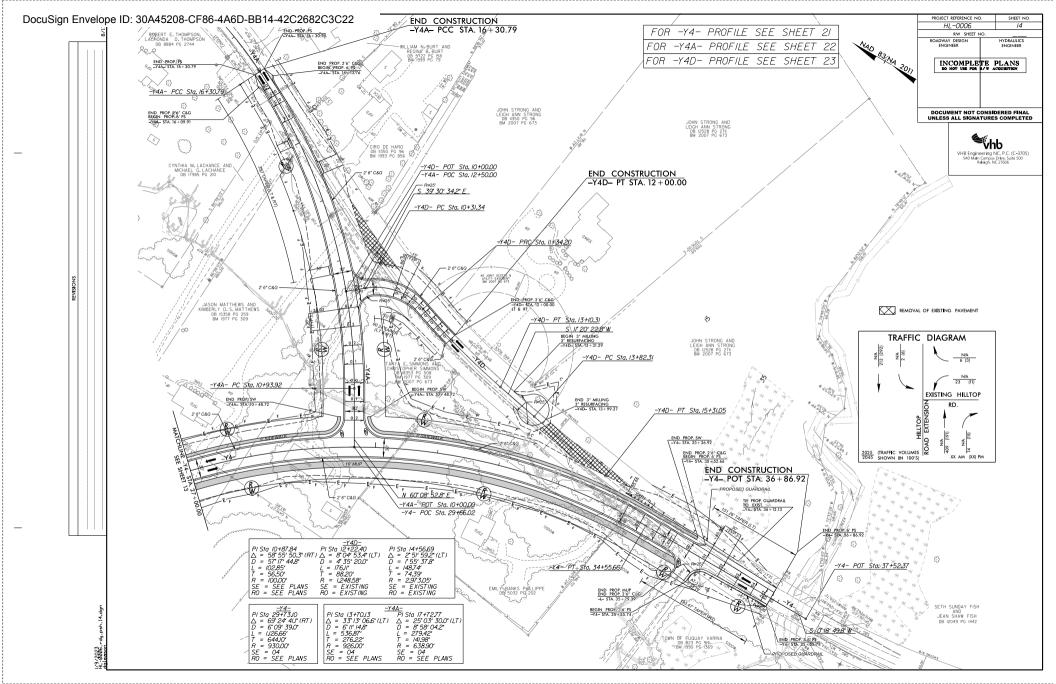


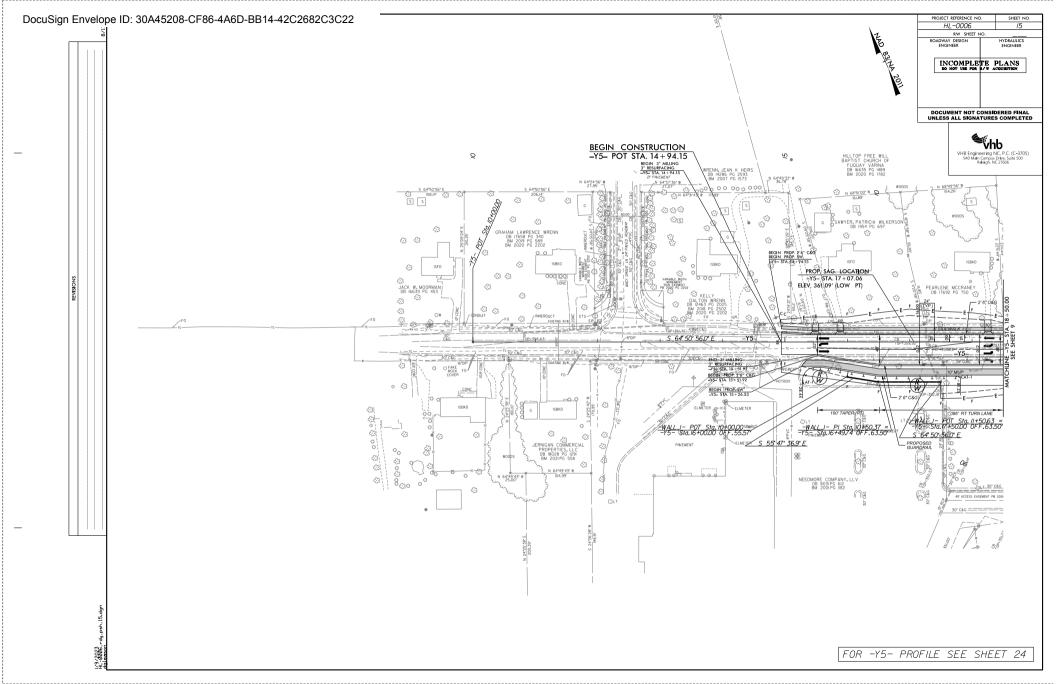














# NO NATIONAL REGISTER OF HISTORIC PLACES ELIGIBLE OR LISTED ARCHAEOLOGICAL SITES PRESENT FORM



This form only pertains to ARCHAEOLOGICAL RESOURCES for this project. It is not valid for Historic Architecture and Landscapes. You must consult separately with the Historic Architecture and Landscapes Team.

			1	
PROJECT I	NFORMATION			
Project No:	HL-0006	County:	Wake	
WBS No:	49365.1.1	Document:	Federal CE	
F.A. No:	n/a	Funding:	State	
Federal Per	mit Required?	Yes No Per	mit Type: CC	ÞΕ
project consi Road) and SI in Fuquay Va Area of Pote roadways and	sts of improvements R 2751 (Hilltop Road arina, Wake County, ntial Effects (APE) t d development.	Carolina Department of to intersections along U ) at SR 2752 (Air Park Ro North Carolina. The NC hat encompasses approxi	JS 401 at SR 1 bad) and SR 137 DOT has establ	393 (Hilltop Needmore 75 (Lake Wheeler Road) ished an archaeological
conducted be Sponseller, K course of the previously re are recommen previously re current invest	etween December 20 Aristin Doshier, and Control of the survey, three new coorded archaeological and Eligible for the coorded site 31WA95	221 and February 2022 connor Seaton of Terracon archaeological sites, 31 al site, 31WA955, was re the <i>National Register of</i> 0 is mapped within the A mended that the propose	by Melissa Mon Consultants, In WA2450–2452 visited within the Historic Place PE; this site was	tation improvements was EKay, Terri Russ, Beckync. (Terracon). During the were recorded and one APE. None of the sites (NRHP). A portion of as not relocated during the owed to proceed without
the subject process of potential of potentia	roject and determine e are no National Reg tential effects. (Attack absurface archaeological arface investigations of dered eligible for the	ister listed ARCHAEOLO h any notes or documents cal investigations were re did not reveal the presence did not reveal the presence	OGICAL SITES as needed.) equired for this ee of any archae ee of any archae	S within the project's area project.  Sological resources.  Sological resources

All identified archaeological sites located within the APE have been considered and all compliance for archaeological resources with Section 106 of the National Historic

Preservation Act and GS 121-12(a) has been completed for this project.

Project Tracking No.
21-08-0003

SUPPORT DOCUMENTATION						
See attached:	Map(s)	Previous Survey Info	Notos Photos	Correspondence		
	Other:					
Signed:	2/28/2022					
Scott Halvorsen						
NCDOT ARC	Date					



# North Carolina Department of Natural and Cultural Resources

#### State Historic Preservation Office

Ramona M. Bartos, Administrator

Governor Roy Cooper Secretary D. Reid Wilson

Office of Archives and History Deputy Secretary, Darin J. Waters, Ph.D.

May 19, 2022

**MEMORANDUM** 

TO: Shelby Reap, Architectural Historian slreap@ncdot.gov

NCDOT/EAU/Historic Architecture Group

FROM: Ramona M. Bartos, Deputy

State Historic Preservation Officer

Reselve Ranona M. Boutos

SUBJECT: Historic Structure Survey Report, HL-0006, Intersection improvements for U.S. 401 and

SR2752, SR 1375, SR 1393, and SR 2752, Wake County, ER 22-1386

Thank you for your May 9, 2022, letter transmitting the above-referenced report. Having reviewed the report, we concur that the Daniel Farm (WA1118) is not eligible for the National Register of Historic Places for the reasons cited in the report. The house has undergone numerous and significant alterations, and the farm no longer retains its association with agriculture.

The above comments are made pursuant to Section 106 of the National Historic Preservation Act and the Advisory Council on Historic Preservation's Regulations for Compliance with Section 106 codified at 36 CFR Part 800.

Thank you for your continued cooperation and consideration. If you have questions concerning the above comments, please contact Renee Gledhill-Earley, environmental review coordinator, at 919-814-6579 or environmental.review@ncdcr.gov. In all future communication concerning this project, please cite the above-referenced tracking number.

Mary Pope Furr, NCDOT mpfurr@ncdot.gov cc:

21-08-0003



# HISTORIC ARCHITECTURE AND LANDSCAPES NO HISTORIC PROPERTIES PRESENT FORM

This form only pertains to Historic Architecture and Landscapes for this project. It is not valid for Archaeological Resources. You must consult separately with the Archaeology Group.

PROJECT INFORMATION					
Project No:	HL-0006	County:	Wake		
WBS No.:	49365.1.1	Documen Type:	t FCE		
Fed. Aid No:	HSIP-1002(056)	Funding:	State   Federal		
Federal	Yes No	Permit	n/a		
Permit(s):		<i>Type(s)</i> :			
intersection and SI	3 (Hilltop-Needmore Rd)/S	intersection i	top Rd)/SR 2752 (Airpark Rd) in Fuquay-Varina. Convert to reduced osite of SR 1375.		
On August 18, 20 HPOGIS Web res Report was submi not eligible for Na	sulting in a Survey Require tted to NCHPO. The report	Effects (APE red. On May rt recommend letter dated N	E) for this project was screened using 9, 2022, a Comprehensive Eligibility led that the Daniel Farm (WA1118) is May 19, 2022, NCHPO concurred with		
SUPPORT DOCUMENTATION					
$\square$ Map(s) $\square$ l	Previous Survey Info.	Photos	Correspondence Design Plans		
FINDING BY NCDOT ARCHITECTURAL HISTORIAN					
Historic Architectu	ure and Landscapes – NO H	ISTORIC PROI	PERTIES PRESENT		
Shelby Reap			May 19, 202		
NCDOT Architect	ural Historian		Date		