Project Development and Environmental Analysis Branch Scoping Information Sheets

TIP No.:	U-2719			Sent Date:			7/20/12	
WBS No.:	35869.1.2			Revision Date:				
Federal Aid No:	IMSNHS-0440(10)			Meeting Date:			August 22, 2012	
Division:	5							
County:	Wake							
Project Description:		I-440 US 1, South of SR 1313 (Walnut Street) to north of SR 1728 (Wade Avenue) in Raleigh. Widen to multi-lanes. (see Figure 1).						
General Project Need:		Draft Project Need – The I-440 beltline is a critical link in the Triangle's roadway network. The project segment forms a "bottleneck" on I-440, with six through lanes on I-440 to the north and south, the four through lanes in the project segment regularly experience congestion. The roadway and interchanges have substandard design elements, such as poor sight lines, narrow shoulders, and short acceleration/deceleration lanes. In addition, the pavement, structures, and interchanges along the project segment are in need of rehabilitation.						
Metropolitan/Rural Planning Organization: Capital Area MPO								
NEPA/404 Merger Candidate?: ☐ Yes ☐ No ☒ To Be Determined								
Feasibility Study Completed?: Yes No Date of Study: June 1994								
Project Schedule: Type of Document: Dates:						Dates:		
Environmental Document(s):				EA - Prefe	red Alt.		April 2014	
				FON	SI		April 2015	
Right of Way Authorization Date:			ate:	Production		2016		
			ate:				2018	

Cost Estimate: STIP 2012-2018 \$80.0 Million \$12.0 Million \$92.0 Million Funded for environmental study **Design Criteria:** Length of Project: Approximately 5 miles Right of Way: Existing: Varies 80 to 375 feet Proposed: **TBD** Existing: Controlled Access Type of Access Control: Proposed: Controlled Access Southbound – 2 through lanes with an auxiliary lane between some interchanges and a collector-distributor road near I-40. Northbound – 2 through lanes with an Roadway Typical Section: Existing: auxiliary lane between Hillsborough St. and Wade Avenue. Median width varies. Figure 4 shows the # of lanes along project. Proposed: 6-lane divided typical section. Speed: Existing Posted Speed: 55 mph Proposed Design Speed: 60 mph Bridge/ Culvert Inventory: No bridges over streams. Multiple bridges over roads and a bridge over railroad. Functional Classification: Freeway/Urban Interstate Strategic Highway Corridor N/A Information: CTP/Thoroughfare Plan Freeway – Needs Improvement (October 2010) Designation (Facility Type): Non-Air Quality Status: Maintenance Attainment attainment 2035 Horizon Completion Year (Long Range Trans. Plan):

Construction:

Total Cost: FY

Right of Way:

Typical Section in Compliance with Conformity Determination? Note: Approved May 20, 2009						
Traffic (AADT):	Year	Range of Traffic		3 to 5		
Current Year:	2011	79,000 to 134,200 (Figure 4)	% TTST:			
Design Year:	2035 (No Build)	93,400 to 157,800	% Dual:	3 to 4		
Design Year:	2035 (Build)	112,000 to 173,600	% DHV:	10		
Source: NCDOT, Traffic Survey Maps, 2009 NCDOT TPB, Project Level Traffic Forecast Report, NCDOT TPB, July 2011 Design Standards Applicable: AASHTO 3R						
Railroad Involvement: One crossing of I-440 over railroad near Hillsborough St, which includes two main track lines and a siding. CSX Transportation and Norfolk Southern operate on this line.						
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<u>Utility Involvement:</u>	Yes, details TBD. Power lines adjacent to, and cross corridor.					

Preliminary Project Study Area Resources Inventory Table (Use with Figures 2a-b and 3)

(Use with Figure	165 Za-D aliu 3)
Resource/Affected Environment & Measure	Applicability/ Resources in Study Area
General Project Information	
Length of project (approximate in miles)	Approximately 5 Miles
Crossing or Intersecting (#) Interchanges include: Walnut St, I-40, Jones Franklin Rd, Melbourne Rd (1/2 interchange), Western Blvd, Hillsborough St, Wade Ave Other Grade-Separated Road Crossings include: Athens Drive, Ligon St, Beryl Rd	Interchanges - 7 Intersections - 0 Other Road Crossings – 3: 2 – Over, 1 - Under Pedestrian Bridge Crossing - 1 RR Crossings - 1
Cultural Resources	
NRHP (and eligible sites, districts, other properties) (#)	0 – National Register Site 1 – National Register District – Method Historic District
Human Environment	
Community Resources (#) Adjacent to the corridor	Meredith College, North Carolina State University, North Carolina Museum of Art Cemeteries – 1 (Oak Grove Cem)
	Churches – Western Blvd Presbyterian
Public Parks/Section 4(f) Properties (#)	3 – Lake Johnson, Kaplan Drive Park, Method Park
Greenways, Game Lands, Land and Water Conservation Fund Properties, etc. (#)	1 – Greenway - Reedy Creek Trail 1 – Lake Johnson Park – LWCF Property
Residential Properties (# potentially affected)	TBD. Residences are located adjacent to existing roadway.
Business Properties (# potentially affected)	TBD. Businesses are located adjacent to existing roadway.
High % Special Populations (Low-income, Minority)	Yes, review of 2010 Census Block Groups identified presence of minority, Hispanic , and Low-Income populations near the project corridor
Natural Environment	
Streams (# of stream crossings) *303(d) Stream	3 - named stream crossings, Simmons Branch, Brushy Creek and Walnut Creek Additional unnamed streams are present . Walnut Creek is on the 2010 303d list and is impaired for fish consumption due to PCB
Wetlands (est. acres)	Surveys will be conducted.
Critical Water Supply Watersheds	Swift Creek (Lake Benson) WS-III, NSW Protected Watershed (Project not in Critical Area)
Riparian Buffer Rules apply	YES – Project within Neuse River Basin riparian buffer protection program Rule 15A NCAC 02B .0242.

Resource/Affected Environment & Measure	Applicability/ Resources in Study Area
Identified Critical Habitat/ESA Spp. (# known)	0 known
	TBD
Physical Environment	
Hazardous Materials (# suspected/known sites)	TBD
Utilities	Yes. Location and type TBD. Power line easements are located adjacent to ROW
Active agriculture (Voluntary Agricultural District)	NO – VADs or EVADs in study area,
Noise	Impacts TBD. Noise sensitive receptors in study area (residences, churches, etc.).
FEMA Buyout Properties	TBD

NOTES: This table is intended to be used in conjunction with the Environmental Features Map (**Figure 2**) and the USGS Map (**Figure 3**).















