Highway Stormwater Produkt (Version 3.00; Released August 2021)		North Carolina Department of Transportation Highway Stormwater Program STORMWATER MANAGEMENT PLAN FOR NCDOT PROJECTS								
WBS Element:	35517.3.TA1	TIP/Proj No: R-2829A	County(ies	s): Wake	Page 1 of 2					
			General Proio	ct Information						
WBS Element		35517 3 TA1	TIP Number: R-28294		Project T	vpe: New Location	Date:	4/10/2024		
NCDOT Contact:				Contractor / Desig	gner: RK&K: Alexis Burke PE			4/10/2024		
Nebor contact.	Address:		Contractor / Desig							
	Addition.					orum 1. Suito 700				
				Porum I, Suite 700						
				Raleigh, NC 27615						
	Phone:				Phone: 9	19-878-9560				
	Email:				Email: a	burke@rkk.com				
City/Town:		Ral	eigh	County(ies):	Wake					
River Basin(s):		Neuse	CAMA County?	No						
Wetlands within Proj	ect Limits?	Yes								
	_		Project D	escription						
Project Length (lin. m	niles or feet):	4.16	Surrounding Land Use:	Commericial / Indus	strial / Residentia					
			Proposed Project		Existing Site					
Project Built-Upon A	rea (ac.)		ac.		ac.					
Typical Cross Section	n Description:	A typical cross-section includes 3 1	2-foot lanes in either direction w	ith a 70-foot grassed						
		median designed to accommodate	a future through-lane in either di	rection. Outside	on. Outside					
		shoulders are 12-14 feet.								
Annual Avg Daily Tra	ffic (veh/hr/day):	Design/Future: 2	22,040 Y	ear: 2043	Existing:	15,440	Ye	ar: 2023		
General Project	ct Narrative:	The design-build project, R-2829A,	is the extension of the Triangle	Expressway from I-40 to	south of SR 254	2 (Rock Quarry Road) in Wake (County. The project v	vill construct a 70		
(Description of Mini	mization of Water	mph six-lane facility with two new interchanges and completion of the Toll NC 540/I-40/I-42 interchange.								
Quality In	npacts)									
		Design Minimizations for wetlands and streams include:								
		1. Steepening of roadway till slopes within julisdictional areas.								
		2. Stormwater was designed to avoid direct discharge into jurisdictional features to the maximum extent practicable.								
		 Stormwater design velocities entering jurisdictional reatures have been reduced to be non-erosive (less than 2 tps). Open shoulder sections were maximized to promote sheet flow from the roadway. 								
		 Open shoulder sections were maximized to promote sheet now from the roadway. Diffuse flow provided at outlets that do not have a well defined outfall. 								
		 Diffuse now provided a collect that do normally a well defined outdall. RCBCs built offline. This provides faster construction in the dry, less time in / around the jurisdictional features, and a safer work area for the traveling public and construction. 								
		or notices out online. This provides tasket construction informedry, less time in / around the junisdictional realizes, and a safet work area for the traveling public and construction income day, less time in / around the junisdictional realizes, and a safet work area for the traveling public and construction income day, less time in / around the junisdiction area to the traveling public and construction income day, less time in / around the junisdiction area to the traveling public and construction in the traveling public and construction income day.								
		7. Buffer swales have been designed where practicable to provide filtration prior to water entering jurisdictional streams.								
1		8. Energy dissipator basin provided to reduce the risk of erosion where outfall analyses dictated.								
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Highway North Carolina Department of Transportation Image: Constraint of Transportation Highway Stormwater Program STORMWATER MANAGEMENT PLAN Image: Constraint of Transportation (Version 3.00; Released August 2021) FOR NCDOT PROJECTS Image: Constraint of Transportation											
WBS Element: 35517.3.TA1	TIP/Proj No.:	R-2829A	County(ies):	Wake		Page	2	of 2			
			General Project	Information							
	1		Waterbody Inf	ormation							
Surface Water Body (1):	White O	ak Creek	NCDWR Stream Index No.:		27-43-11						
NCDWR Surface Water Classification fo	r Water Body		Primary Classification:	Class C				_			
		Supplemental Classification:	Nutrient Sensitive Waters (NSW)							
Other Stream Classification:								_			
Impairments:						<u> </u>					
Aquatic T&E Species?	051/	Comments:									
NRTR Stream ID:	SEV			// 0	Buffer Rules in Effect:	·	1				
Project Includes Bridge Spanning Water	r Body?	Yes	Deck Drains Discharge Over Buffer? No		Dissipator Pads Provided in Buffer? No			NO			
Deck Drains Discharge Over Water Bod	NO			General Project Narrative)			, justily in the				
(if yes, provide justification in the	General Project Na	inalive)									
Surface Water Body (2):				NCDWR Stream Index No.:				_			
		Primary Classification:									
NCDWR Surface Water Classification for Water Body			Supplemental Classification:								
Other Stream Classification:											
Impairments:											
Aquatic T&E Species?		Comments:									
NRTR Stream ID:				Buffer Rules in Effect:							
Project Includes Bridge Spanning Water Body?			Deck Drains Discharge Over Buffer?		Dissipator Pads Provided in Buffer?						
Deck Drains Discharge Over Water Body?			(If yes, provide justification in	(If yes, describe in the General Project Narrative; if no, justify in the							
(If yes, provide justification in the	General Project Na	irrative)			Gen	eral Project Nar	rative)				
Surface Water Body (3):				NCDWR Stream Index No.:							
NCDWR Surface Water Classification for Water Body			Primary Classification:								
	-		Supplemental Classification:					_			
Other Streem Classification											
								-			
Aquatic T&E Species?		Commente									
		Conments:	s.		Buffer Bules in Effect:						
NR IR Stream ID: Drojoet Includes Bridge Spanning Water Body?			Deak Praine Discharge Over Buffer?		Dissinctor Rada Provided in Puffer?						
Dock Drains Discharge Over Water Body?			(If yes, provide justification in the General Project Narrative)		(If yes describe in the General Project Narrative: if no justify in the						
(If yes, provide justification in the	y : General Project Na	urrative)			Gen	eral Project Nar	rative)	s, jaoury in the			
	ocherar Project Na	inauve)				,	,				