Highway North Carolina Department of Transportation Highway Stormwater Program STORMWATER MANAGEMENT PLAN STORMWATER MANAGEMENT PLAN (Version 3.00; Released August 2021) FOR NCDOT PROJECTS												
WBS Element:	50603.1.1	TIP/Proj No:	HB-0039	New Hanover				Page	1	of 2		
				G	General Project	Information						
WBS Element:		50603.1.1		TIP Number:		Project	Type:	Bridge Replacement		Date:	3/12/2024	
NCDOT Contact:		Charles R. Smith,	PE			Contractor / Desig	ner:	Kaitlin Helr	ms, El			
	Address:	1000 Birch Ridge				ŭ	Address:					
		Raleigh, 27610						555 Fayett	eville St. Suite 900			
								Raleigh, N	C 27601			
	Phone:	919-707-6754					Phone:	919-232-6	600			
	Email:	crsmith1@ncdot.g	<u>ov</u>				Email:	Kaitlin.Helr	ms@hdrinc.com			
City/Town:			Wiln	nington		County(ies):	New Ha	nover				
River Basin(s):		Cape	Fear			CAMA County?	Ye	s				
Wetlands within Pro	ject Limits?	Yes										
					Project Dese							
Project Length (lin. r	niles or feet):	0.66 n	niles	Surrounding	Land Use:	Flat grass, Woods,	high density re	sidential, in	ndustrial			
				Proposed Proje	ct				Existing Site	e		
Project Built-Upon A			22.2		ac.			14.7	ac.			
Typical Cross Section				parrier) with Curb &	Gutter, Sidewall	, and Sidepath, 35	4' Lane Divide	ed with Med	lian Guardrail. 54 ft brido	ge width.		
		mph. 135 ft bridge	e wiath.									
Annual Ann Daile Tr	ff: (,).					0050	= 1.0					ar: 2019
Annual Avg Daily Tra General Proje		Design/Future		94,900		2050	Existing: 60,900 Year:					
		HB-0039 proposed to replace the Cape Fear Memorial Bridge, built in 1969. The bridge carries US17/US76/US421 across the Cape Fear River between New Hanover and Brunswick Counties with terminations in the City of Wilmington on the east and Eagle Island (New Hanover and Brunswick Counties) on the west. The existing bridge is a 4-lar										
		Impact Minimizatio When feasible, ste	n Efforts: Avoid epened slopes	ance and minimiza will be utilized to m	ation measures w ninimize wetland	ill be implemented th	roughout the p on Eagle Island	roject deve I, grass-line	d ditches will be impleme			·

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WBS Element: 50603.1.1	TIP/Proj No.:	HB-0039	County(ies):	New Hanover			Page	2	of 2			
General Project Information												
Waterbody Information												
Surface Water Body (1):		Northeast Ca	pe Fear River	NCDWR Stream In	dex No.:	18-(71), 18-74-(61)						
NCDWP Surface Water Classification fo	r Water Body		Primary Classification:	Class S	SC							
NCDWR Surface Water Classification for Water Body			Supplemental Classification:	Swamp Wate	rs (Sw)							
Other Stream Classification:	ther Stream Classification:											
Impairments:	mercury		lead (Pb)	рН		dissolved oxygen (DO)	iron (Fe)				
Aquatic T&E Species?	Yes	Comments:										
NRTR Stream ID:	Cape Fear River	-	1			Buffer Rules in Effect:			N/A			
Project Includes Bridge Spanning Water	Body?	Yes	Deck Drains Discharge Over Bu		N/A	Dissipator Pads Provided						
Deck Drains Discharge Over Water Body		Yes	(If yes, provide justification in	the General Project I	Narrative)	(If yes, describe in the General Project Narrative; if no, justify in the						
(If yes, provide justification in the General Project Narrative) General Project Narrative)												
Surface Water Body (2):			1	NCDWR Stream In	dex No.:							
NCDWR Surface Water Classification fo	r Water Bodv		Primary Classification:									
			Supplemental Classification:	ition:								
Other Stream Classification:												
Impairments:		1										
Aquatic T&E Species?		Comments:										
NRTR Stream ID:						Buffer Rules in Effect:						
Project Includes Bridge Spanning Water			Deck Drains Discharge Over Bu		Dissipator Pads Provided in Buffer?							
Deck Drains Discharge Over Water Body			(If yes, provide justification in	Narrative)	(If yes, describe in the General Project Narrative; if no, justify in the General Project Narrative)							
(If yes, provide justification in the	General Project Na	rrative)										
				1		1						
Surface Water Body (3):			1	NCDWR Stream In	dex No.:							
NCDWR Surface Water Classification for	r Water Bodv		Primary Classification:									
			Supplemental Classification:						-			
Other Stream Classification:												
Impairments:												
Aquatic T&E Species? Comments:												
NRTR Stream ID:				Buffer Rules in Effect:								
Project Includes Bridge Spanning Water		Deck Drains Discharge Over Bu	Iffer?		Dissipator Pads Provided in Buffer?							
Deck 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 General Project Narrative) General Project Narrative)												

WBS Element: 50003.1.1 TIP Proj No: H0:003 County(ie): New Hanover Poge 1 Project Type: Bidge Replacement Desci VBS Element: 50003.1.1 TIP Number: H8:003 Project Type: Bidge Replacement Desci VCOT Contact: Address: 1000 Sinch Röge Drive Address: Fibre Contractor: / Designer: Address: Fibre SS Frayetowites B: Sale 900 Rasep, 72761 Prone:	PR	ater Rogram	st 2021)					Ν	н	lighway S RMWATE	tormwa	nt of Transporta ter Program AGEMENT PLAI OJECTS		I							of normal sectors	
WBS Element: 50603.1.1 TIP Number: HB-0039 Project Type: Bridge Replacement Date: NCDOT Contact: Charles R. Smith, PE Contractor / Designer: Kaltin Helms, El Address: Maddress: Maddress: <th>ent:</th> <th>506</th> <th>603.1.1</th> <th></th> <th>TIP/Proj N</th> <th>lo: H</th> <th>B-0039</th> <th></th> <th></th> <th>County</th> <th>/(ies):</th> <th>New Hanover</th> <th></th> <th></th> <th></th> <th></th> <th></th> <th>Page</th> <th>1</th> <th>of</th> <th>2</th>	ent:	506	603.1.1		TIP/Proj N	l o: H	B-0039			County	/(ies):	New Hanover						Page	1	of	2	
NCDOT Contact: Charles R. Smith, PE Contractor / Designer: Kaitlin Helms, El Address: 1000 Birch Ridge Drive Raleigh, 27610 Address: HDR Phone: 919-707-6754 Phone: 919-707-6754 Email: csmith1@incota.ov County(res): New Hanover Image: River Basin(s): River Basin(s): Cape Fear CAMA County? Yes Ves Project Length (lin. miles or feet): 0.66 miles Surrounding Land Use: Flat grass, Woods, high density residential, industrial Project Built-Upon Area (ac.) 44.0 ac. 32.8 ac. Typical Cross Section Description: 6 Lane Divided (22 median with barrier) with Curb & Guiter, Sidewalk, and Sidepath, 35 4' Lane Divided with Median Guardrail. 54 ft bridge width. Mb-039 proposed to replace the Cape Fear Rever between N HB-0039 proposed to replace the Cape Fear River between N General Project Narrative: HB-0039 proposed to replace the Cape Fear River between N 4' Lane Divided with Median Guardrail. 54 ft bridge width. General Project Narrative: HB-0039 proposed to replace the Cape Fear River between N HB-0039 proposed to replace the Cape Fear River between N General Project Narrative: HB-0039 proposed to replace the Cape Fear River odu consist of 6-lane median div				General Project Information																		
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Address: 1000 Birch Ridge Drive Rateigh, 27610 Address: HDR S55 Fayetteville St. Suite 900 Rateigh, NC 27601 Phone: 919-707-6754 Phone: 919-207-6754 Phone: 919-232-6600 Email: City/Town: River Basin(s): Cape Fear CAMA County? Yes Image: Cape Fear Imag				_		nith. PE					1	Contractor / De	siar									
Raleigh, 27610 555 Fayetteville St. Suite 900 Raleigh, 727610 Raleigh, NC 27601 Phone: 919-207-6754 Email: casmith 1@ncdot.gov City/Town: Cape Fear Niver Basin(s): Cape Fear Vetlands within Project Limits? Yes Project Length (lin. miles or feet): 0.66 miles Surving Construction Project March 2000 Project Length (lin. miles or feet): 0.66 miles Surving Construction Flat grass. Woods, high density residential, industrial Project Built-Upon Area (ac.) 44.0 Annual Avg Daily Traffic (veh/hriday): Design/Future: Obscription of Minimization of Water General Project Interminations in the City of Wilmington on the east and Eagle Island (New Hanover and Brunswick Counties on the west. The existing steel center span vertical lift bridge. built in 1969. The bridge carries US17/US76/US421 across the Coape Fear River New			Addre													,						
Phone: 919-707-6754 Raleigh, NC 27601 Email: cramith @ncdol.gov Email: Raleigh, NC 27601 City/Town: isrmith @ncdol.gov Email: Kaitin Helms@hdmics.com River Basin(s): Cape Fear CAMA County? Yes Wetlands within Project Limits? Yes Project Length (lin. miles or feet): 0.66 miles Surrounding Land Use: Flat grass, Woods, high density residential, industrial Project Built-Upon Area (ac.) 44.0 [ac.] 32.8 [ac.] Typical Cross Section Description: 6 Lane Divided (22 median with barrier) with Curb & Gutter, Sidewalk, and Sidepath, 35 4' Lane Divided with Median Guardrail. 54 ft bridge width. Annual Avg Daily Traffic (veh/hr/day): Design/Future: 94,900 Year: 2050 Existing: 60,900 Yeice is events and the divide of cost of 6-sen median divide divide facility with a barrier-separated multi-use path. The project accommoda to cost of 6-lane median divide facility with a barrier-separated multi-use path. The project spans from the US-74 interchange in Brunswick Counties will be findered. cost of 6'vertical clearance, and a fixed span with 65' vertical clearance. This pSMP is for the impact associated with the fixed span with 135' vertical clearance, and a fixed span with 65' vertical clearance. This pSMP is for the impact associated with							-									tteville St. Su	ite 900					
Phone: 919-707-6754 Phone: 919-232-6600 Email: crsmith 1@nodet.aov Email: Katlin, Helms@hdrinc.com River Basin(s): Cape Fear CAMA County? Yes Wetlands within Project Limits? Yes Project Description Project Length (lin. miles or feet): 0.66 miles Surrounding Land Use: Flat grass, Woods, high density residential, industrial Project Built-Upon Area (ac.) 44.0 ac. 32.8 ac. Typical Cross Section Description: 6 Lane Divided (22' median with barrier) with Curb & Gutter, Sidewalk, and Sidepath, 35 4' Lane Divided with Median Guardraii. 54 ft bridge width. Mph. 135 ft bridge width. Design/Future: 94,900 Year 2050 Existing: 60,900 Year General Project Narrative: Design/Future: 94,900 Year 2050 Existing: 60,900 Year Quality Impacts) Design/Future: 94,900 Year 2050 Existing: 60,900 Year Quality Impacts) Design/Future: 94,900 Year 2050 Existing: 60,900						-																
Email: cramith1@ncdoLoov Email: Kaitlin_Helms@hdninc.com City/Town: Wilmington County(ies): New Hanover Image: New Hanover			Pho	1e: 91	19-707-6754	1							F									
City/Town: Wilmington County(ies): New Hanover River Basin(s): Cape Fear CAMA County? Yes Wetlands within Project Limits? Yes Project Description Project Length (lin. miles or feet): 0.66 miles Surrounding Land Use: Flat grass, Woods, high density residential, industrial Project Built-Upon Area (ac.) 6 Lane Divided (22' median with barrier) with Curb & Gutter, Sidewalk, and Sidepath, 35 mph. 135 ft bridge width. 4' Lane Divided with Median Guardrail. 54 ft bridge width. Annual Avg Daily Traffic (veh/hr/day): Design/F-tuture: 94,900 Year: 2050 Existing: 60,900 Year: General Project Narrative: General Project Narrative: Brunswick Counties with terminations in the City of Wilmington on the east and Eagle Island (New Hanover and Brunswick Counties) on the west. The existing steel center span vertical lift bridge. The proposed bridge would consist of 6-lane median divided facility with a barrier-separated multi-use path. The project accommodate local population increases and truck traffic for the Port of Wilmington. 3 design options are being considered: movable span with 135' vertical clearance, and a fixed span with 65' vertical clearance. This pSMP is for the impacts associated with the fixed span with 135' vertical clearance. This pSMP is for the impacts associated with the fixed span with 135' vertical clearance. When feasible, steepened slopes will be utilized to minimize wetland and stream impact on Edge Island, grass-lined ditches will be implemented tor													F				om					
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Typical Cross Section Description: 6 Lane Divided (22' median with barrier) with Curb & Gutter, Sidewalk, and Sidepath, 35 mph. 135 ft bridge width. 4' Lane Divided with Median Guardrail. 54 ft bridge width. Annual Avg Daily Traffic (veh/hr/day): Design/Future: 94,900 Year: 2050 Existing: 60,900 Year: General Project Narrative: (Description of Minimization of Water Quality Impacts) HB-0039 proposed to replace the Cape Fear Memorial Bridge, built in 1969. The bridge carries US17/US76/US421 across the Cape Fear River between N/s teel center span vertical lift bridge. The proposed bridge would consist of 6-lane median divided facility with a barrier-separated multi-use path. The project accommodate local population increases and truck traffic for the Port of Wilmington. 3 design options are being considered: movable span with 65' vertical clearance, and a fixed span with 65' vertical clearance. This pSMP is for the impacts associated with the fixed span with 135' vertical clearance, and a fixed span with 65' vertical clearance. This pSMP is for the project development process. The project spans from the US-74 interchange in Brunswick County to the intersection of US-17 with S. 5th St. in New Hanover County, a distance of approx Impact Minimization Efforts: Avoidance and minimization measures will be implemented throughout the project development process. When feasible, steepened slopes will be utilized to minimize wetland and stream impacts on Eagle Island, grass-lined ditches will be implemented to provide		A	(00)				44.0	Propos	eu Proje						00.0			re.				
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Highway North Carolina Department of Transportation Stormwater Highway Stormwater Program STORMWATER MANAGEMENT PLAN (Version 3.00; Released August 2021) FOR NCDOT PROJECTS												
WBS Element: 50603.1.1	TIP/Proj No.:	HB-0039	County(ies):	New Hanover			Page	2	of 2			
General Project Information												
Waterbody Information												
Surface Water Body (1):		Northeast Ca	pe Fear River	NCDWR Stream In	dex No.:	1	8-(71), 18-74-(6	61)				
NCDWR Surface Water Classification fo	r Water Body		Primary Classification:	Class S	C							
	- Water Body		Supplemental Classification:	Swamp Wate	rs (Sw)							
Other Stream Classification:	Other Stream Classification:											
Impairments:	mercur		lead (Pb)	pH		dissolved oxygen (DO)	iron ((Fe)				
Aquatic T&E Species?	Yes	Comments:				-		1				
NRTR Stream ID:	Cape Fear River					Buffer Rules in Effect:			N/A			
Project Includes Bridge Spanning Water		Yes	Deck Drains Discharge Over Bu		N/A	Dissipator Pads Provided						
Deck Drains Discharge Over Water Bod		Yes	(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 General Project Narrative) General Project Narrative)												
Surface Water Body (2):			I	NCDWR Stream In	dex No.:							
NCDWR Surface Water Classification fo	Primary Classification:						_					
	Supplemental Classification:						_					
Other Stream Classification:												
Impairments:		-										
Aquatic T&E Species?		Comments:										
NRTR Stream ID:			1		1	Buffer Rules in Effect:						
Project Includes Bridge Spanning Water			Deck Drains Discharge Over Bu			Dissipator Pads Provided in Buffer?						
Deck Drains Discharge Over Water Bod			(If yes, provide justification in	the General Project	Narrative)	(If yes, describe in the General Project Narrative; if no, justify in the General Project Narrative)						
(If yes, provide justification in the	General Project Na	arrative)				Gene	eral Project Nar	rative)				
				1								
Surface Water Body (3):			1	NCDWR Stream In	dex No.:							
NCDWR Surface Water Classification fo	r Water Body		Primary Classification:									
			Supplemental Classification:									
her Stream Classification:									_			
Impairments:												
Aquatic T&E Species?												
NRTR Stream ID:	D 1 0					Buffer Rules in Effect:						
Project Includes Bridge Spanning Water		Deck Drains Discharge Over Bu (If yes, provide justification in	Norrotivo)	Dissipator Pads Provided in Buffer?								
Deck Drains Discharge Over Water Bod		<i>c</i> >	(ii yes, provide justilication in	the General Project	ivariauve)	(If yes, describe in the General Project Narrative; if no, justify in the General Project Narrative)						
(If yes, provide justification in the General Project Narrative) General Project Narrative)												