

ENVIRONMENTAL RE-EVALUATION FORM

FHWA South Carolina

100	STATES OF AMERICA										
Sta	ite File #		Fed Project #	P027662	Project ID	P027662	Route	-20/I-26/I-126	County	_exingt	on and Richl
Pro	ject Name	e/Description									
Cc th	The FHWA and SCDOT propose to upgrade the I-20/26/126 corridor and reconstruct associated interchanges in Richland and Lexington Counties, South Carolina. The primary purpose of the proposed Carolina Crossroads project is to implement a transportation solution(s) that would improve mobility and enhance traffic operations by reducing existing traffic congestion within the I-20/26/126 corridor while accommodating future traffic needs.										
1.	DOCU	MENT TYPE	: ⊠ EIS	☐ EA	CE (non	Programma	atic)	PCE (No FHW	/A Approv	al Requ	ired)
	A. Other	Actions Assoc	iated with the I	Project:							
	☐ Se	ction 4(f) Evalu	uation								
	⊠ Se	ction 106 Com	pliance								
	× We	etland Finding	/Section 404 Co	ompliance							
		& E Species Bio	logical Assessn	nent							
	☐ No	one									
2.	DOCUM	ЛENT APPR	OVAL DATE	:	Лау 2, 2019						
3.	DATE(S	S) OF PRIOR	RE-EVALUA	ATIONS:							
4.			PMENT STA	GE:							
	_	Design									
	⊠ ROW										
	Cons	truction									
	_										
	_	er, Specify									
5.	Othe	er, Specify		ED SINCE TH	E LAST AP	PROVAL?):		⊠ YES	5	□ NO
	HAS DI	er, Specify ESIGN OR R then Go To	Item 7)	ED SINCE TH			<u>'</u> :		⊠ YES	5	□ NO

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Environmental Re-evaluation Form:

7.	HAVE THERE BEEN SIGNIFICANT ENVIRONMENT OR HAVE THE EI UPDATED SINCE THE LAST PRO- Items 5 and 7, Go To Item 10)	NVIRONMENTAL S	STUDIES BEEN	⊠ YES □ NO
8.	APPROVED DOCUMENT(S) RE-E	VALUATION:		
	A. REVIEW OF EFFECTS: (Complete this	section if "YES" to eith	er Item 5 or Item 7)	
	SOCIAL ENVIRONMENT	CHA	ANGE	REMARKS
	1. Land Use	☐ YES	⊠ NO	
	2. Community	☐ YES	⊠ NO	
	3. Relocations	☐ YES	⊠ NO	
	4. Churches/Institutions	☐ YES	⊠ NO	
	5. Title VI/E.O. 12898	☐ YES	⊠ NO	
	6. Economic	☐ YES	⊠ NO	
	7. Controversy	☐ YES	⊠ NO	
	8. Other; Specify	☐ YES	⊠ NO	
	NATURAL ENVIRONMENT	CH/	ANGE	REMARKS
	1. Wetlands		☐ NO	See Support documentation attached
	 Wetlands Water Quality 		□ NO ⊠ NO	See Support documentation attached
		_		See Support documentation attached
	2. Water Quality	☐ YES	∑ NO	See Support documentation attached
	 Water Quality Wild/Scenic Rivers 	☐ YES	⊠ NO ⊠ NO	See Support documentation attached
	 Water Quality Wild/Scenic Rivers Farmland 	☐ YES☐ YES☐ YES	⊠ NO ⊠ NO ⊠ NO	See Support documentation attached
	 Water Quality Wild/Scenic Rivers Farmland T & E Species 	☐ YES ☐ YES ☐ YES ☐ YES	NONONONONO	See Support documentation attached
	 Water Quality Wild/Scenic Rivers Farmland T & E Species Floodplains 	YES YES YES YES YES YES YES	NO NO NO NO NO NO	See Support documentation attached REMARKS
	 Water Quality Wild/Scenic Rivers Farmland T & E Species Floodplains Other; Specify 	YES YES YES YES YES YES YES	NONONONONONONONONONO	
	 Water Quality Wild/Scenic Rivers Farmland T & E Species Floodplains Other; Specify PHYSICAL ENVIRONMENT	YES YES YES YES YES YES YES CHA	NO	REMARKS
	 Water Quality Wild/Scenic Rivers Farmland T & E Species Floodplains Other; Specify PHYSICAL ENVIRONMENT Noise 	☐ YES	NO	REMARKS
	 Water Quality Wild/Scenic Rivers Farmland T & E Species Floodplains Other; Specify PHYSICAL ENVIRONMENT Noise Air Quality 	— YES	NO N	REMARKS
	 Water Quality Wild/Scenic Rivers Farmland T & E Species Floodplains Other; Specify PHYSICAL ENVIRONMENT Noise Air Quality Energy/Mineral Resources 		NO N	REMARKS
	 Water Quality Wild/Scenic Rivers Farmland T & E Species Floodplains Other; Specify PHYSICAL ENVIRONMENT Noise Air Quality Energy/Mineral Resources Construction/Utilities 	☐ YES	NO N	REMARKS

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Environmental Re-evaluation Form:

CULTURAL ENVIRONM	IENT	CHA	NGE	REMARKS		
1. Historic Sites		☐ YES	⊠ NO			7
2. Archaeological Resou	ırces	✓ YES	NO	Saluda Canal - se	e Appendix B	
7. Other; Specify		☐ YES	⊠ NO			1
PERMITS		CHA	NGE	REMARKS		
1. U.S. Coast Guard		☐ YES	⊠ NO			
2. Forest Service/USACI	E/USFWS Land	☐ YES	⊠ NO			
3. Section 404		YES YES	⊠ NO			
4. Other; Specify		YES YES	⊠ NO			
Have the required per	mits been obtained?	☐ YES	⊠ NO			
If "YES" what is the exp	oiration date?					
*16	. d	444 b d a 44b				
^if permits nave expire	ed, permits will need up	aated and att	acned to re-evalu	lation.		
9. NEED FOR PUBLIC I	NVOLVMENT:					
⊠ A public hearing/pu	blic information meeting	was held for th	ne project on:	August 23, 201	8	
There have been no	changes in project desigr has already been held] o	n or environme or public inforn	ental effects which nation meeting.	would require a pu	ıblic hearing [or addition	ıal
,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,			J.			
	ject design and/or effects					
☐ public hearing/publ	ic information meeting. T	he meeting is	scheduled for:			
10. FINDINGS/CONCL	USIONS:					
Based on the analys	is contained in this re-eva	luation, it has	been determined t	hat the change in p	oroject design and/or	
environmental effect	ts would not significantly	alter the conc	lusions reached in	the approved envir	ronmental document an	d/or
previous re-evaluati	OH(S).					
There have been no	changes in the design/RC	DW of this proj	ect nor have there	been changes in pr	oject effects or the affec	ted
environment. There re-evaluation(s) rem	fore, the conclusions read	ched in the ap	proved environme	ental document and	l/or previous	
re-evaluation(s) rem	aiii vaiiu.					
Prepared By:	Will McGoldrick	Digitally signed by		Date	8-3-20	
repared by.	Will Medolariek	Date: 2020.08.03 09	1:43:51 -04'00'	Date	0-3-20	
For Non Programmati	c CEs:					
		Digitally signed by	FMILY OLDHAM LAWTON	5.		
Concurred (FHWA):	EMILY OLDHAM LAWT	ON Date: 2020.08.03 1	7:14:23 -04'00'	Date		

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Special Provision

Date: 07/21/2020		NEPA ENVIACION	IEM AL CONTINUE	NI 3 FORIVI		Com vie		
roject ID : P027662	County:	Richland/Lexingt D	Pistrict : District 1	Doc Type:	RE-Eval	Total # of Commitments:	30	
roject Name: 1-20, 1-26, 1-126	Carolina Cr	ossroads Corridor Im	provements					
e Environmental Commitment Contractor Responsible measures listed below are to be included in the contract and must be implemented. It is eresponsibility of the Program Manager to make sure the Environmental Commitment SCDOT Responsible measures are adhered to. If there are estions regarding the commitments listed please contact: CONTACT NAME: Brian Klauk, PE PHONE #: (803)-737-5051								
CONTACT NAME: Brian Klauk,	, PE			PHONE #	(803)-737-50	31		
	EN'	VIRONMENTAL CO	OMMITMENTS FOR	R THE PROJ	ECT			
Non-Standard Commitme	ent	NEPA Doc R	ef: Chapter 2, Section	on 2.2.2.2 Re	esponsibility:	SCDOT		
Mass Transit								
SCDOT will work with CMRT, congestion resulting from the Engineering feasibility, timin CMCOG prior to the start of CMCOG to identify and prove	ne project. I ng and con constructio	SCDOT would constr tinued maintenance on. In the event a per	uct the two sites and of the sites would be manent site cannot k	maintain the determined be developed	em during con in coordinatic I, SCDOT woul	estruction of the on with CMRTA d work with CM during constru	e project. and the MRTA and	
Non-Standard Commitme	ent	NEPA Doc R	ef: Chapter 2, Section	on 2.2.9 Re	esponsibility:	SCDOT		
Mass Transit								
SCDOT will implement a conmitigate congestion by infororiented options.	-	•				ls and other trai	I .	
							Clair Tovisipii	
Non-Standard Commitme	ent	NEPA Doc R	ef: Chapter 2	Re	esponsibility:	SCDOT		
Mass Transit								
SCDOT will assist COMET/CN locations, which may include construction and in the ever during construction based u	e bus turno nt that capa	outs. In addition, SCD acity is reached, SCD	OT will work with CM OT will provide supp	ARTA to mon	itor bus opera [.]	tions and capac	city during	

P027662



Non-Standard Commitment	NEPA Doc Ref:	Chapter 2, Section 2.2.2.2	Responsibility:	Contractor/SCDOT		
Bicycle/Pedestrian						
Prior to final design, SCDOT will coordinate of pedestrian facilities identified in the local an accommodated where located within the line feasible.	d regional plans a	nd existing and proposed c	onnections to suc	h facilities are		
During construction, SCDOT will accommod or trail groups to post information on temporal closures will be communicated to the agence	orary sidewalk or b	icycle facility closures or de	tours. Sidewalk ar	nd/or bicycle lane/path		
Non-Standard Commitment	NEPA Doc Ref:	Chapter 3, Section 3.3	Responsibility:	SCDOT		
Displacements						
Property Acquisition Policies Act of 1970, as regulations is to ensure that owners of real properties to encourage and expedite acquin the courts, and to promote public confide Temporary construction easements may be construction and would provide compensat	SCDOT will acquire all new right-of-way and process any relocations in compliance with the Uniform Relocation Assistance and Real Property Acquisition Policies Act of 1970, as amended (42 U.S. C. 4601 et seq.) and the SCDOT ROW Manual. The purpose of these regulations is to ensure that owners of real property to be acquired for federal and federally-assisted projects are treated fairly and consistently, to encourage and expedite acquisition by agreements with such owner, to minimize litigation and relieve congestion in the courts, and to promote public confidence in federal and federally-assisted land acquisition programs. Temporary construction easements may be needed for some properties. SCDOT will temporarily use these properties during construction and would provide compensation to the landowner for the temporary use. The property will be fully returned to the owner when the use of the property is no longer required, typically when construction is complete.					
Non-Standard Commitment	NEPA Doc Ref:	Chapter 3, Section 3.3	Responsibility:	Contractor/SCDOT		
Public Involvement						
Changes in access for school bus routes will that the school systems can adjust routes in construction. SCDOT and the contractor will program.	a timely manner. (Coordination with local sch	ool districts will al	so occur during		
				Special Provision		

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Non-Standard Commitment	NEPA Doc Ref:	Chapter 3, Section 3.3	Responsibility:	Contractor/SCDOT
Public Involvement During Construction				
Written translations of public involvement dother measures determined by SCDOT to en made to ensure meaningful opportunities for warranted to address community concerns.	sure meaningful a	ccess to project information	n during construct	tion. Efforts will be
				Special Provision
Non-Standard Commitment	NEPA Doc Ref:	Chapter 3, Section 3.13	Responsibility:	Contractor/SCDOT
Public Involvement During Construction				
The contractor(s), through a community out temporary, long-term), when to expect then			what types of clos	ures to expect (i.e.
SCDOT and the contractor(s) will coordinate services before construction to ensure that a				n and ambulance
				Special Provision
Non-Standard Commitment	NEPA Doc Ref:	Chapter 3, Section 3.5	Responsibility:	Contractor/SCDOT
Noise				
Based on the studies thus far accomplished, barrier at Noise Sensitive Area (NSA) O and Sapproximately 2,300 feet west (Barrier O), ar 4,380 feet east towards the Broad River (Barrier Impreliminary design for a barrier cost of \$35.0 subsequently develops during final design to be provided. A final decision of the installati Since there are residences located on the opwill be added to the barriers to minimize no	5. These barriers are not on the south sid rier S). These prelin to per square foot that these condition on of the abateme	e located on the south side e of I-20 from the Broad Riv ninary indications of likely a hat will reduce the noise le ns have substantially chang nt measure(s) will be made	of I-20 from the Saver Road exit exter abatement measured by at least 5dB ged, the abatement upon completion	aluda River extending nding approximately res are based upon (A) for residences. If it measures might not of the project's design.

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Non-Standard Commitment	NEPA Doc Ref:	Chapter 3, Section 3.5	Responsibility:	SCDOT
Noise				
In order to help local officials and developer inform them of the predicted future noise le remain below the NAC for each type of land Record of Decision (ROD) publication. This o	evels and the requir use per 23 CFR 772	ed distance from the road 2.17. The information will b	ways needed to er	nsure that noise levels
				Consciel Provision
				Special Provision
Non-Standard Commitment	NEPA Doc Ref:	Chapter 3, Section 3.5	Responsibility:	CONTRACTOR
Noise				
During construction, powered construction within 150 feet of a noise sensitive site, to be				
Non-Standard Commitment	NEPA Doc Ref:	Chapter 3, Section 3.6	Responsibility:	CONTRACTOR
Water Quality				
The contractor(s) will be required to minimize contained in 23 CFR 650B and the Departme Supplemental Technical Specifications on Seetc. as appropriate will be implemented dur	ent's Supplemental eeding (latest edition	Specification on Erosion Con). Other measures includ	ontrol Measures (I ling seeding, silt fe	atest edition) and
				Special Provision



Non-Standard Commitment	NEPA Doc Ref:	Chapter 3, Section 3.6	Responsibility:	CONTRACTOR
Water Quality				
Stormwater modeling will be completed for stormwater into appropriately designed BM will identify and avoid all point sources of fe	IP's before being re	leased into receiving wate	rs. During constru	
				Crosial Provision
L				Special Provision
Non-Standard Commitment	NEPA Doc Ref:	Chapter 3, Section 3.6	Responsibility:	CONTRACTOR
Permits				
A Section 401 State Water Quality Certificati obtaining the certification as part of the Joir			e contractor(s) is re	
				Special Provision
Non-Standard Commitment	NEPA Doc Ref:	Chapter 3, Section 3.6	Responsibility:	CONTRACTOR
Permits				
The contractor(s) is responsible for developed project prior to initiating land disturbing act		oecific SWPPP and for obta	ining a Section 40	2 NPDES permit for the Special Provision



Non-Standard Commitment	NEPA Doc Ref:	Chapter 3, Section 3.7	Responsibility:	CONTRACTOR
Permits				
A State Navigable Waters permit will be requ contractor will be responsible for obtaining t		on over any navigable wat	erways (i.e., the Sa	Iluda River). The
				Special Provision
Non-Standard Commitment	NEPA Doc Ref:	Chapter 3, Sec 3.7/3.18	Responsibility:	SCDOT
Individual Permit-Permits				
Impacts to jurisdictional waters will be perm of Engineers (USACE). Based on preliminary of Individual Army Corps of Engineers Permit (I during the Section 404 permitting process. Of this project will be determined through cons	design, it is anticip. P). SCDOT will prov One permit would I	ated that the proposed pro vide the USACE with inforn be obtained for the overall	pject will be permi nation regarding a project. The requi	tted under an iny proposed activities
				Special Provision
Non-Standard Commitment	NEPA Doc Ref:	Chapter 3, Section 3.8	Responsibility:	CONTRACTOR
Floodplains				
Detailed hydraulic and hydrologic studies fo culverts. The project will be designed to be carea, coordination with Dominion Energy an River floodway crossings due to its function	consistent with loca d Federal Energy F	al floodplain development Regulatory Commission (FE	plans. Prior to cor	nstruction activity in the
				Special Provision

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Non-Standard Commitment	NEPA Doc Ref:	Chapter 3, Section 3.8	Responsibility:	CONTRACTOR
Floodplains				
The project will be designed in an effort to coordination with FEMA will require the pr Revision) package for the encroachment. V accommodate a 100-year (1% annual chan designed to accommodate a 50-year or gre be coordinated with resource and regulators.	eparation of a CLON Vhere regulatory flo ce) flood. Where no eater magnitude flo	MR (Conditional Letter of Modplains are defined, hydrogen regulatory floodplains are devent. Ongoing design	Map Revision) / LON raulic structures wi e defined, culverts a	MR (Letter of Map II be designed to and bridges will be
				Special Provision
Non-Standard Commitment	NEPA Doc Ref:	Chapter 3, Section 3.8	Responsibility:	CONTRACTOR
Floodplains				
Prior to construction, the selected contract the local County Floodplain Administrator.		or imai pians and request	ior noodpiain man	Special Provision
Non-Standard Commitment	NEPA Doc Ref:	Chapter 3, Section 3.8	Responsibility:	CONTRACTOR
Floodplains				
No substantial impacts to floodplain values additional measures will be evaluated to re			conditions change	e based on final design,
				Special Provision

Project ID: P027662

SCDOT NEPA ENVIRONMENTAL COMMITMENTS FORM



Non-Standard Commitment	NEPA Doc Ref:	Chapter 3, Section 3.9	Responsibility:	Contractor/SCDOT
Natural Resources				
To mitigate for natural upland forested habi the final design plans, within the rights-of-w safety zones.				
Impacts to areas providing significant wildling the extent practicable through avoidance are				
Construction activities will be conducted wimaximum extent practicable.	thin the disturbed	footprint of the existing roa	adway and utility	right-of-way to the Special Provision
Non-Standard Commitment	NEPA Doc Ref:	Chapter 3, Section 3.11	Responsibility:	CONTRACTOR
Section 4(f)				
To mitigate the temporary impacts to the Sa Department at least 48 hours in advance as and Recreation Department to communicat condition of the trail will be equal to existing	to when the trail w e the closing to tra	rith be temporarily closed. S	SCDOT will also w	ork closely with the Parks
				Special Provision
Non-Standard Commitment	NEPA Doc Ref:	Chapter 3, Section 3.12	Responsibility:	CONTRACTOR
Hazardous Materials				
Prior to construction, the project contractor the subject properties, and/or on the adjoin sample collection (e.g. soil, soil gas, and groundwater exists. Asbestos Containing Masbestos and lead-based paints will be manduring the construction and cleanup. Activit disposal of lead-based paint and/or asbesto	ing properties or th undwater), specific aterial and/or Lead aged and disposed ties will be monitor	ne ROW. Ultimately, the Pha cally, in areas where a poter Based Paint testing will be of properly at an appropria red by a professional that is	ase II ESAs will inc ntial for disturban assessed separat ate permitted faci	lude environmental ce of soil and/or ely. Materials containing lity to minimize impacts emoval, handling and
				Special Provision

Project ID :	P027662
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Non-Standard Commitment	NEPA Doc Ref:	Chapter 3, Section 3.12	Responsibility:	CONTRACTOR
Hazardous Materials				
A spill prevention, control, and countermeas oils or oil-based products during construction				12, for the handling of
				Special Provision
Non-Standard Commitment	NEPA Doc Ref:	Chapter 3, Section 3.12	Responsibility:	CONTRACTOR
Hazardous Materials				
A hazardous waste management plan will be health and safety plan will be developed for trespassers) and the environment within proof. The hazardous waste management plan will	construction active eximate to the site.	ities to protect human hea	Ith (i.e. workers, re	esidents, recreation and
				Special Provision
Non-Standard Commitment	NEPA Doc Ref:	Chapter 3, Section 3.12	Responsibility:	CONTRACTOR
Hazardous Materials				
If avoidance of hazardous materials is not a vector construction, the South Carolina Department Hazardous materials will be tested and removed Agency and the SCDHEC requirements, if ne can be contacted at 803-898-0290.	it of Health and En oved and/or treated	vironmental Control (SCDF d in accordance with the U	IEC) will be inform nited States Enviro	ned immediately. Onmental Protection
				Special Provision

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Non-Standar	d Commitment	NEPA Doc Ref:	Chapter 3, Section 3.13	Responsibility:	CONTRACTOR
Cultural Reso	urces				
presence of a gravestones, Construction	onstruction phase of the project ny prehistoric or historic remai or brick concentrations. If any s Manager would be immediate e SCDOT Chief Archaeologist o	ns, including but r such remains are e ly notified and all v	not limited to arrowheads, p ncountered, the Resident C work in the vicinity of the d	pottery, ceramics, Construction Engir iscovered materia	flakes, bones, graves, neer (RCE) and SCDOT's Is and site work shall
Non-Standar	d Commitment	NEPA Doc Ref:	Chapter 3, Section 3.13	Responsibility:	SCDOT
Cultural Reso	urces				
Additionally,	gical professional will be prese sites 38RD140, 38RD1175, and will be clearly marked in the fi resources.	38RD1176 will be	protected from indirect eff	ects, including bor	row sites and equipment
					Special Provision
					,
Non-Standar	d Commitment	NEPA Doc Ref:	Chapter 3, Section 3.13	Responsibility:	CONTRACTOR
Cultural Reso	urces - Part 1				
vicinity of th A 25-foot bu the field usin conducted o commitmen temporary c	Canal (Site 38RD59) would be e canal to avoid impacts to t ffer will be maintained aroung orange fencing during con utside of this buffer in order tof a 25-foot buffer for a disconstruction access & equipmall be added to the contract as	he canal during c nd the canal for t struction, and all to avoid all possi tance of approxinent near I-26 Rai	onstruction & any future he majority of the resour ground disturbance and ble impacts to the resour ately 700 feet along the mp C. To protect the bour	maintenance act ce. This zone wo construction stage rce. SCDOT proposed ramp ndary of the cana	civities along the ROW. uld be clearly marked in ging activities would be oses to revise the to allow room for

Date: 07/21/2020





Special Provision

Date: 07/21/2020							
Project ID: P027662	County:	Richland/Lexingt	District :	District 1	Doc Type	: RE-Eval	Total # of Commitments:
Project Name: I-20, I-26, I-126 C	Carolina Cr	ossroads Corridor I	mproven	nents			
he Environmental Commitment Co he responsibility of the Program M juestions regarding the commitme	lanager to n	nake sure the Enviror					
CONTACT NAME: Brian Klauk,	PE				PHONE	#: (803)-737-50	51
	EN	VIRONMENTAL (СОММІТ	MENTS FOR	R THE PRO	JECT	
Non-Standard Commitme	nt	NEPA Doc	Ref: Cha	pter 3, Sectio	n 3.13	Responsibility:	CONTRACTOR
Cultural Resources - Part 2							
a. Prior to construction activi District in areas that will mair between the two drainages a b. Prior to construction activi c. For areas along the identifi 5419+50 clearing will be alloway. Grubbing activities with d. During land clearing activitundertaken close to the fence	ntain the o and for a le ities silt fer ied Saluda wable to tl nin the 5-fo ities prior t	original buffer as we ength to the south on noing will be installed Canal located alon he right of way but noot buffer will requited construction, and	ell as thos of the sou ed along g the I-26 grubbind ire appro archaeolo	e areas where uthernmost di the edge of S 5 Ramp C beg g will be limite val from SCDC	e the buffer rainage. CDOT right inning Stati ed to withir DT prior to c	of way to prevention 5412+50 and a distance of 5 occurring.	ested to be reduced ent runoff. d ending Station i-feet inside of the right of
Non-Standard Commitme	nt	NEPA Doc	Ref: Cha	pter 3, Sectio	n 3.13	Responsibility:	CONTRACTOR
Cultural Resources - Part 3							
e. During construction, an arc the protective fencing. Any of SHPO. f. As soon as an inadvertent in artifact, construction in that a determine the best strategies	observation mpact is d area will st	ns during these visi liscovered, such as a cop immediately un	ts will be a previou til an ons	recorded in a sly unidentific ite consultati	n inspectio ed cultural on with SCI	n log that will b resource, archae DOT archaeolog	e made available to the eological feature, or
							Special Provision
Non-Standard Commitme	nt	NEPA Doc	Ref: Cha	pter 3, Sectio	n 3.13	Responsibility:	CONTRACTOR
Air Quality							
The contractor(s) will ensure	that all co	nstruction equipm	ent is pro	perly tuned a	nd maintaiı	ned.	
Idling time will be minimized	d to save fu	uel and reduce emis	ssions.				
Water will be applied to cont vegetation. Vegetation will b					There will b	e no open burr	ning of removed

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SCDOT NEPA ENVIRONMENTAL COMMITMENTS FORM



INIVIEW I AL COIVI	INITIMIENTS FOR THE PR	OJECI	
NEPA Doc Ref:	Chapter 3, Section 3.13	Responsibility:	CONTRACTOR
oarter, purchase, do nest, egg or prod ce of taking of inc truction Enginee The RCE will coo	eliver or cause to be shippe uct, manufactured or not. I dividual migratory birds an (RCE) at least four (4) ordinate with Environmen	d, exported, impo SCDOT will comp d the destruction weeks prior to tal Services Office	orted, transported, ly with the Migratory Bird of their active nests. The construction/demolition/ e ComplianceDivision, to
NEPA Doc Ref:	Chapter 3, Section 3.13	Responsibility:	CONTRACTOR
NEPA Doc Ref:	Chapter 3, Section 3.13	Responsibility:	CONTRACTOR
ed for off-peak tr	raffic hours when reason	able/feasible.	
	NEPA Doc Ref: S 703-711, states parter, purchase, do nest, egg or prodice of taking of incitruction Engineer The RCE will cook the structure. SCE NEPA Doc Ref: NEPA Doc Ref: NEPA Doc Ref:	NEPA Doc Ref: Chapter 3, Section 3.13 C § 703-711, states that it is unlawful to pursular parter, purchase, deliver or cause to be shipped nest, egg or product, manufactured or not. Section Engineer (RCE) at least four (4) The RCE will coordinate with Environment the structure. SCDOT will be responsible for the structure of the project will be field reviewed and assolited prior to disturbance to avoid and/or minimal prio	C § 703-711, states that it is unlawful to pursue, hunt, take, capitarter, purchase, deliver or cause to be shipped, exported, imporest, egg or product, manufactured or not. SCDOT will compose of taking of individual migratory birds and the destruction truction Engineer (RCE) at least four (4) weeks prior to The RCE will coordinate with Environmental Services Officithe structure. SCDOT will be responsible for the removal/manufacture. SCDOT will be responsible for the removal/manufacture. SCDOT will be responsible for the removal/manufacture. SCDOT will be field reviewed and assessed for the presponsibility:

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ENVIRONMENTAL COMMITMENTS FOR THE PROJECT							
Non-Standard Commitment	NEPA Doc Ref:	Chapter 3, Section 3.13	Responsibility:	CONTRACTOR			
Construction							
A traffic maintenance plan will be develor construction equipment and activities.	oped prior to cor	nstruction initiation to m	inimize interfere	nce to traffic flow from			
				Special Provision			
Non-Standard Commitment	NEPA Doc Ref:	Re-evaluation Page 3-4	Responsibility:	CONTRACTOR			
Cultural Resources and Wetland Survey on Additional ROW tracts							
After SCDOT acquisition, wetland delineations will be 316.	performed on Parcels	270, 187 and 316; archaeological	investigations will be	conducted on Parcels 187 and Special Provision			
	NEPA Doc Ref:	Page: XX Paragraph: XX	Responsibility:				
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NEPA Re-evaluation

SUPPORTING DOCUMENTATION JULY 22, 2020

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	Right of way changes based on Design Refinements	
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	PPENDIX B: SHPO Coordination	





Introduction

FHWA approved a Final Environmental Impact Statement (FEIS) and Record of Decisions (ROD) for the Carolina Crossroads Project on May 2, 2019. Since that time the project has progressed towards construction that will occur in five (5) phases. The phases of construction are proposed to overlap or be performed consecutively with little or no time between phases and the overall construction time of all phases of work is anticipated to be less than 10 years. The 5 proposed phases are shown in Figure 1.

Proposed Design Changes

During detailed design and constructability reviews, the development of right of way plans, and right of way acquisition for construction of Phases 1 and 2 of the Carolina Crossroads Project, several design changes have been proposed to the Refined Recommended Preferred Alternative (RPA) described in the FEIS/ROD. These changes are described below.

As a result of these changes, SCDOT has re-evaluated the social, environmental and economic impacts documented in the FEIS/ROD.

I-26 Westbound Ramp onto I-126 Eastbound and Colonial Life Blvd.

The proposed ramp alignment at the above location proposed in the RPA created a physical overlap between the ramp bridge and the existing I-26 Mainline Bridge over the Saluda River. Since the project is now being constructed in phases through multiple construction contracts and this ramp is constructed as part of the first phase, this physical conflict between the bridges must be resolved to allow the existing bridge to remain in service during construction and in the interim period between construction phases. To resolve this conflict, the ramp has been shifted away from the mainline approximately 20 feet. This change is just to the ramp geometry and does not change the operational function of the proposed exit from I-26 Westbound. The change occurs within the right of way proposed for the Refined RPA. See Figure 2.

As a result of this design change, the traffic noise analysis was updated to account for the ramp shifting closer to the Rivers Edge neighborhood by approximately 22 feet. The noise analysis concluded that the overall number of impacted receivers in the area did not change. The noise barrier analysis still found that a noise barrier at this location was not reasonable. See the Noise Analysis Update memo in Appendix A.

No other studies documented in the FEIS/ROD required updating as a result of this design change. No change of impacts presented in the FEIS/ROD are anticipated at this location.



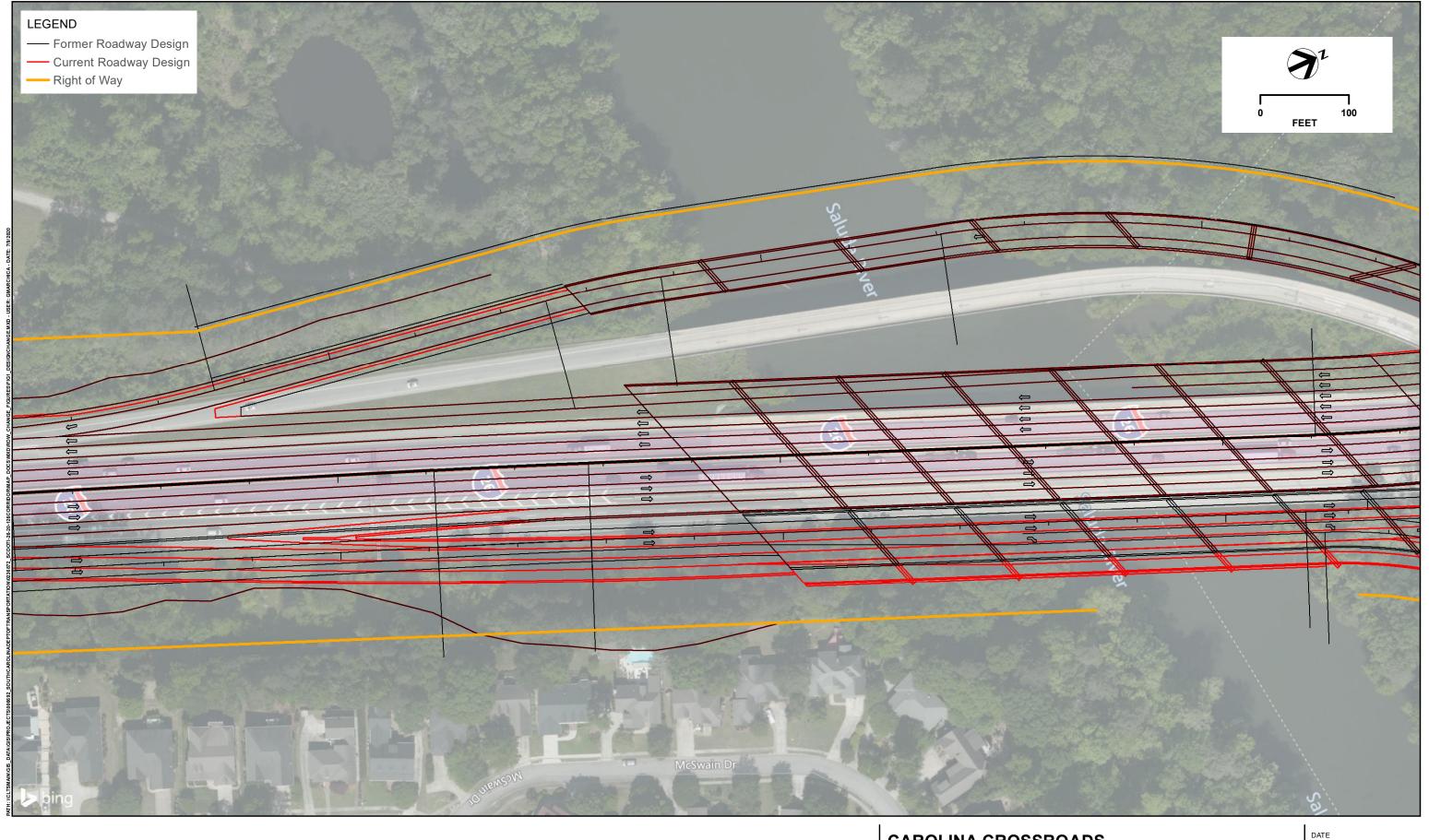


Phased Construction Map

July 23, 2020







CAROLINA CROSSROADS I-26 WESTBOUND RAMP ONTO I-126 EASTBOUND AND COLONIAL LIFE BLVD

CAROLINA CROSSROADS RE-EVALUATION

JULY 2020

FIGURE 2

FIGURE

I-126 WB Exits to Colonial Life Blvd. and I-26 EB

The Refined RPA included a five-lane approach along I-126 Westbound to the Colonial Life Blvd. exit with the exit to Colonial Life Blvd. being a tapered exit and all five through lanes extending through the exit. Beyond the Colonial Life Blvd. exit, the outside lane would become an "Exit Only" lane for the exit to I-26 Eastbound. During the design development, it was discovered that undesirable roadway design exceptions for lane and/or shoulder width would be required to allow for the five through lanes beyond the tapered exit to Colonial Life Blvd. The design was subsequently modified to retain the existing approach to the Colonial Life Blvd. parallel exit with four through lanes and immediately following the exit to Colonial Life Blvd., a deceleration lane for the exit to I-26 Eastbound is developed. This change was incorporated into the project traffic models and it was determined that this change will not adversely impact the I-126 westbound mainline operations during both the morning and afternoon peak hours. The change occurs within the originally proposed footprint of the roadway and within the right of way proposed for the Refined RPA. See Figure 3.

No environmental studies were updated based on this design change. No change of impacts documented in the FEIS/ROD are anticipated at this location.

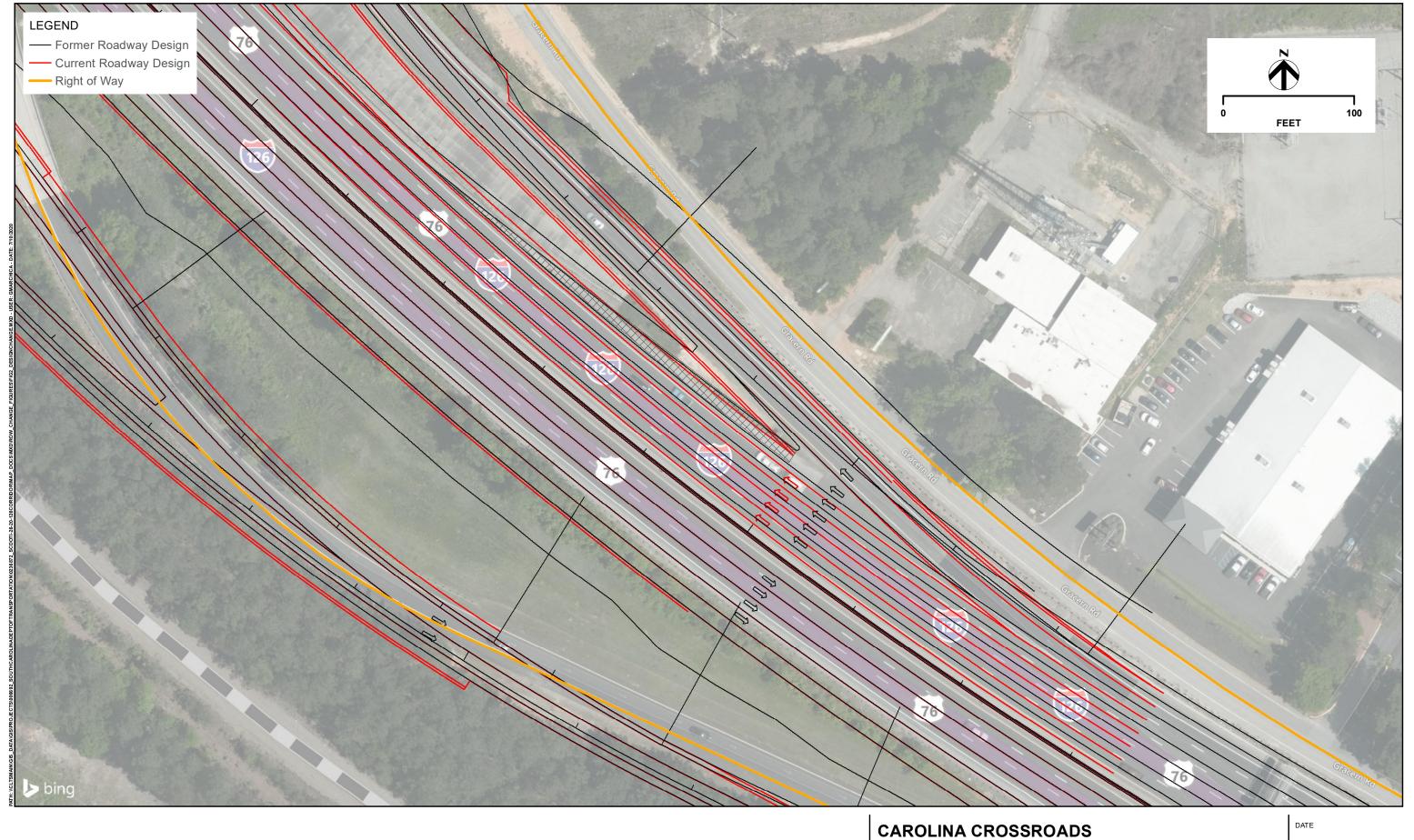
Saluda River Access Road relocation

SCDOT is currently in the process of purchasing right of way for the project. During the negotiation process with Dominion Energy for the purchase of right-of-way along I-126 near the I-126/I-26 interchange, adjacent to the Saluda River, Dominion Energy identified an existing access/service road along the Saluda River that they currently used for maintenance of transmission lines and access for both the Saluda Riverwalk and Saluda River boat ramp. Emergency services also use the access road for emergency response to the trail and the boat ramp, which provides access for river rescues. The current design would require the elimination of the existing access road. SCDOT will be required to re-establish this access road within the proposed right of way acquired for the Carolina Crossroads project. The relocated roadway is expected to be reconstructed along the right of way line, adjacent to I-126 and the interchange ramps. The road was designed to avoid impacts to the Saluda Canal, which is an historic resource. See Figure 4. The proposed relocation of the access would increase impacts for Wetlands 25 and 26 by a total of 0.24 acres of fill and 0.19 acres of clearing and Tributaries 45 and 46 by a total of 53 linear feet. However, the overall wetland and stream impacts included in the USACE Individual Permit (IP) are lower than the impacts documented in the FEIS/ROD, as noted in Table 1.

Table 1: W	Table 1: Wetland and Stream Impact Comparison							
		FEIS	Permit	Reduction				
Wetlands	Fill (acres)	6.88	Fill: 2.76	2.35				
			Clearing: 1.77					
	Ponds (acres)	0.01	0.0	0.1				
Streams	ams Linear feet 16,251 8,136		8,136	3,282				
			Morphologic change: 2,538					
			Stream relocation: 2,295					





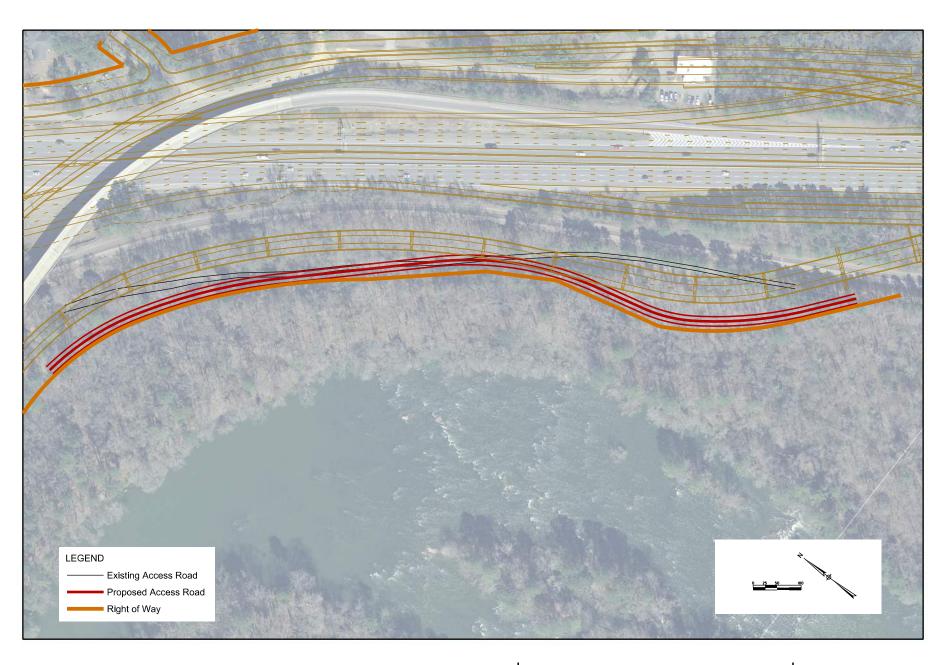


I-126 WB EXITS TO COLONIAL LIFE BLVD. AND I-26 EB

CAROLINA CROSSROADS RE-EVALUATION

JULY 2020

FIGURE 3



CAROLINA CROSSROADS SALUDA RIVER ACCESS ROAD

CAROLINA CROSSROADS RE-EVALUATION

DATE

JULY 2020

FIGURE

FIGURE 4

Right of way changes based on Design Refinements

The changes to right-of-way are based on design refinements during development of right of way plans including, but not limited to:

- minor changes to roadway design/alignments
- allowance for adequate drainage ditches along the roadway
- allowance for detention basins
- allowance for outfall and inlet improvements/protection at pipe crossings

These design refinements caused additional right of way requirements in construction Phases 1 and 2 for the Refined RPA. See Figures 5.1 - 5.7.

These areas of additional right of way were reviewed to determine if they were within the previously surveyed project study area (PSA) for the FEIS/ROD. In three (3) locations encompassing five (5) parcels, the additional right of way extended beyond the PSA, on Parcels 404, 187/316 and 269/270, as shown in the above-referenced figures. These locations were field reviewed for jurisdiction features (streams, wetlands) and cultural resources.

Initial Archaeological and Wetlands Survey: Parcels 269, 404, 187, 270, and 316

On July 7, 2020, investigators conducted archaeological and wetland surveys of Parcels 269 and 404. Due to ongoing right of way negotiations, shovel testing and delineation was not conducted at this time on Parcels 187, 270, and 316; these parcels were visually inspected during the current investigations. Once SCDOT acquires the properties and/or provides property owner notification, additional surveys will be completed based on recommendations below. The locations of Parcels 269, 270, 404, 187, and 316 are presented in Figures 5.1-5.7. The investigations are summarized below.

Parcel 269 is located in a paved and partially wooded area between two abandoned nightclubs adjacent to Longcreek Drive, approximately 630 feet northeast of the intersection of Longcreek Drive and US 176. The portion of the parcel that is outside of the original archaeological study area is approximately 0.2 acres. The area is largely paved and the only wooded area is a heavily disturbed strip between the two parking lots of the nightclubs. No shovel tests were excavated at Parcel 269 and no further survey is recommended at this location. No wetlands were observed within this parcel.

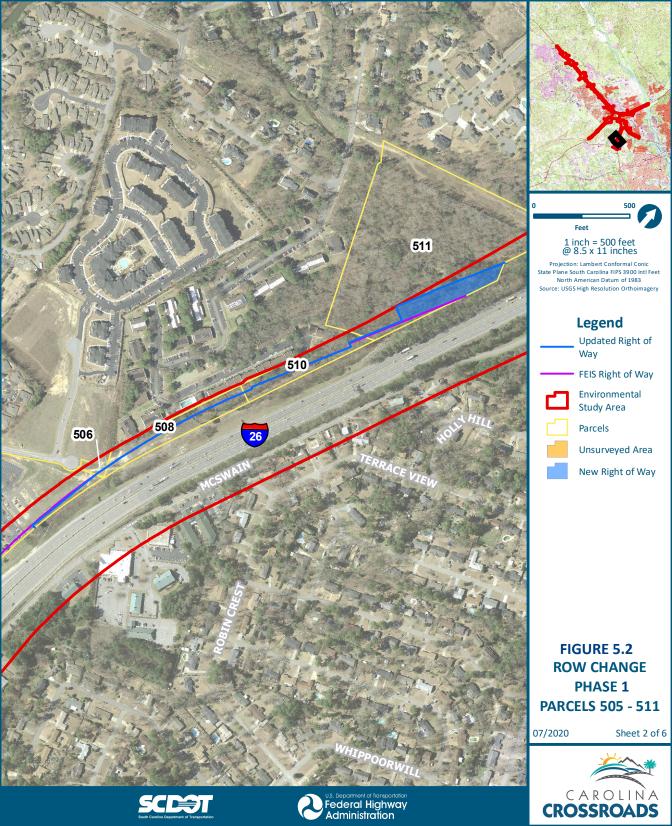


View of Parcel 269, facing northwest.

















1 inch = 500 feet @ 8.5 x 11 inches

State Plane South Carolina FIPS 3900 Intl Feet North American Datum of 1983 Source: USGS High Resolution Orthoimagery

Legend

Updated Right of Way

FEIS Right of Way

Environmental Study Area

Parcels

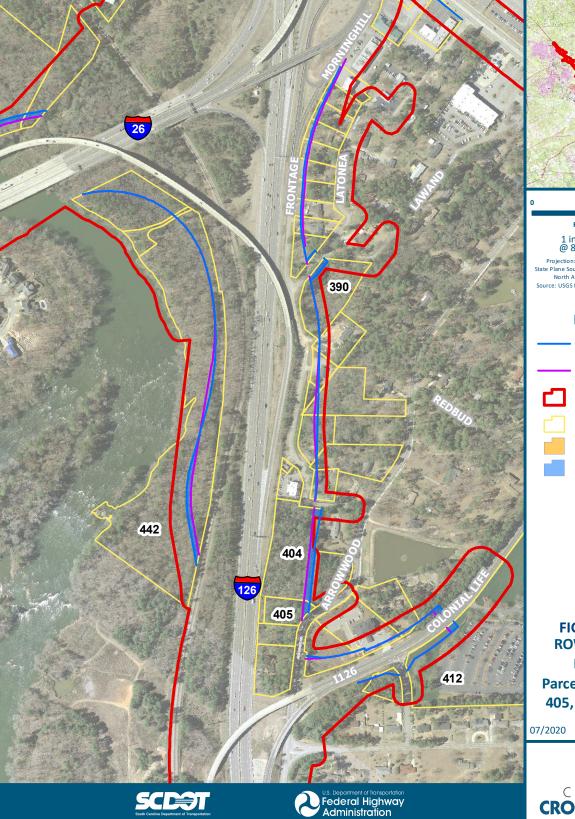
Unsurveyed Area

New Right of Way

FIGURE 5.3 **ROW Change** Phase 1 Parcels 442, 445,

Sheet 3 of 6







Feet

1 inch = 500 feet
@ 8.5 x 11 inches

Projection: Lambert Conformal Conic State Plane South Carolina FIPS 3900 Intl Feet North American Datum of 1983 Source: USGS High Resolution Orthoimagery

Legend

Updated Right of Way

FEIS Right of Way

Environmental Study Area

Parcels

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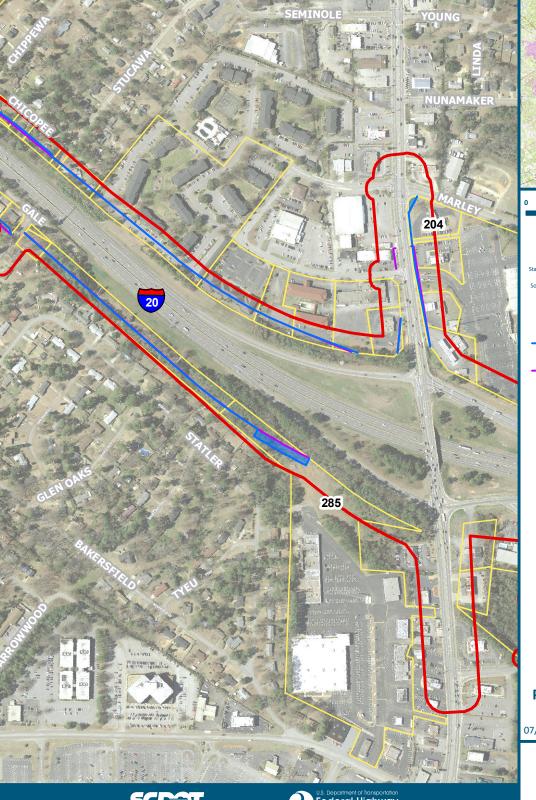
Unsurveyed Area

New Right of Way

FIGURE 5.4 ROW Change Phase 1 Parcels 390, 404, 405, 412, & 442

Sheet 4 of 6









Projection: Lambert Conformal Conic State Plane South Carolina FIPS 3900 Intl Feet North American Datum of 1983 Source: USGS High Resolution Orthoimagery

Legend

Updated Right of Way

FEIS Right of Way

Environmental Study Area

Parcels

Unsurveyed Area

Olisal veyea Area

New Right of Way

FIGURE 5.5 ROW Change Phase 2 Parcels 204 & 285

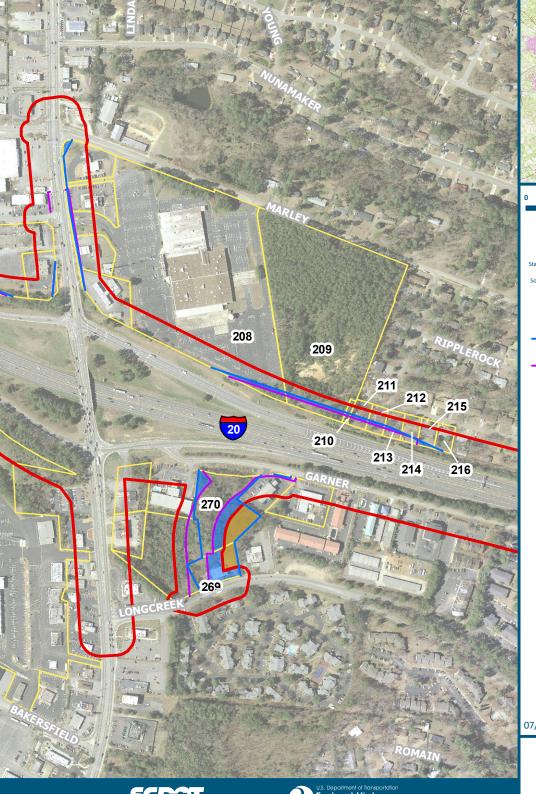
07/2020

Sheet 5 of 6











Feet

1 inch = 500 feet
@ 8.5 x 11 inches

Projection: Lambert Conformal Conic State Plane South Carolina FIPS 3900 Intl Feet North American Datum of 1983 Source: USGS High Resolution Orthoimagery

Legend

Updated Right of Way

FEIS Right of Way

Environmental Study Area

Parcels

Unsurveyed Area

New Right of Way

FIGURE 5.6 ROW Change Phase 2 Parcels 269, 270, and 208-216

07/2020

Sheet 6 of 6







Parcel 270 is located in a wooded area behind an abandoned nightclub adjacent to Longcreek Drive, approximately 630 feet northeast of the intersection of Longcreek Drive and US 176. The portion of the parcel that is outside of the original archaeological study area is approximately 0.43 acres. The area is wooded and is generally very low and wet. It appears to be an area where people dispose of used tires and other debris. Due to ongoing right of way negotiations, no shovel tests were excavated at Parcel 270. Due to heavy ground disturbance and the preponderance of wetlands, it is recommended that no archaeological investigations are necessary on this portion of Parcel 270.

The area has numerous depressional areas and braided channels that appear to accept runoff from the hotel parking lot on Garner Drive as well as from a channel that emanates from underneath a concrete block wall. The area is highly disturbed with numerous manmade features such as a concrete block wall, and buried pipes. It is recommended that a delineation be performed after acquisition. As currently proposed, the design would not impact wetlands on this parcel; however, if the design-build contractor proposed an alternate design that did impact wetlands at this location, those impacts would be documented in a re-evaluation and USACE Individual Permit (IP) modification.



View of Parcel 270, facing south.







View of Parcel 270, facing west



View of Parcel 270, facing north





Parcel 404 is located in a wooded area behind a residence on Arrowwood Road, approximately 860 feet northwest of the intersection of Arrowwood Road and Colonial Life Boulevard. The portion of the parcel that is outside of the original archaeological study area is approximately 0.06 acres. The area is covered in dense undergrowth. Investigators excavated two shovel tests spaced 30 meters (100 feet) apart to cover the area. The two shovel tests generally exposed a 10YR4/2 dark grayish brown sandy loam from 0-20 cm below surface (bs), over a 10YR5/6 yellowish brown loamy sand from 20-50 cm bs, underlain by a compact 10YR7/6 yellow sand subsoil at 50-70+ cm bs. The fill from these tests was sifted through ¼-inch mesh hardware cloth. We recovered no cultural materials from the investigations at Parcel 404. No further archaeological survey is recommended at this location. No wetlands were observed within this parcel.



View of Parcel 404, facing northwest.

Parcels 187 and 316 are adjacent to each other and are located in a wooded area in a residential neighborhood, to the west of the intersection of Chippewa Drive and Chicopee Drive. The portion of the parcels that is outside of the original archaeological study area is approximately 0.3 acres. Due to ongoing ROW negotiations, no shovel tests were excavated at Parcels 187 and 316. It is recommended that archaeological investigations be conducted in the uplands portions of Parcels 187 and 316. The area is heavily wooded and includes a stream and associated wetlands in the central portion, with uplands to the east and west. This system appears to be part of Wetland 15. It is recommended that a delineation be performed after acquisition.





As currently proposed, the design would not impact wetlands on this parcel; however, if the design-build contractor proposed an alternate design that did impact wetlands at this location, those impacts would be documented in a re-evaluation and USACE Individual Permit (IP) modification.



View of Parcels 187 and 316, facing west.



View of Parcels 187 and 316, facing north.





Revision to FEIS Environmental Commitments

The proposed I-26 Westbound Ramp onto I-126 Eastbound and Colonial Life Blvd. is located between and immediately adjacent to both CSX railroad right of way and the Saluda Canal Historic District. The Environmental Commitment in the FEIS/ROD proposed a 25-foot buffer along the canal during construction activities.

During detailed design and constructability reviews and right of way acquisition for construction Phase 1 of the Carolina Crossroads Project, issues were identified in the vicinity of the Saluda Canal Historic District. The proposed ramp is at the northern end of the Saluda Canal and will not overlap the mapped limits of the canal. However, the currently proposed 25-foot buffer extends underneath the proposed I-26 Ramp C and presents constructability issues for equipment access during the construction of the project. Generally, the condition of the canal is very poor in this area adjacent to the proposed ramp due to erosion and siltation from two drainages in this area.

SCDOT has reduced right of way widths in the vicinity of the canal at this location to avoid impacts to the canal during construction and any future maintenance activities along the right of way.

SCDOT proposes to revise the commitment of a 25-foot buffer for a distance of approximately 700 feet along the proposed ramp to allow room for temporary construction access and equipment. The following mitigation will be implemented instead:

- Prior to construction activities orange protective fencing will be installed along the edge of boundary
 of the Saluda Canal Historic District in areas that will maintain the original buffer as well as those
 areas where the buffer has been requested to be reduced between the two drainages and for a
 length to the south of the southernmost drainage.
- Prior to construction activities silt fencing will be installed along the edge of SCDOT right of way to prevent runoff.
- For areas along the identified Saluda Canal located along the I-26 Ramp C beginning Station 5412+50 and ending Station 5419+50 clearing will be allowable to the right of way but grubbing will be limited to within a distance of 5-feet inside of the right of way. Grubbing activities within the 5-foot buffer will require approval from SCDOT prior to occurring.
- During land clearing activities prior to construction, an archaeologist will be present at all times to ensure that these activities undertaken close to the fencing do not damage the canal.
- During construction, an archaeologist will visit the construction site twice a week to ensure that no
 activities have crossed over the protective fencing. Any observations during these visits will be
 recorded in an inspection log that will be made available to the SHPO.
- As soon as an inadvertent impact is discovered, such as a previously unidentified cultural resource, archaeological feature, or artifact, construction in that area will stop immediately until an onsite consultation with SCDOT archaeologists and SHPO can determine the best strategies for avoiding, minimizing, or mitigating adverse effects upon the resource.

See SHPO coordination memo, figure, SHPO concurrence letter and tribal notification in Appendix B.



APPENDIX ANoise Analysis Update Memo





Memo

Date: Monday, June 08, 2020

Project: Carolina Crossroads

To: Chad Long, SCDOT David Kelly, SCDOT Shane Belcher, FHWA

From: Ben Copenhaver

Subject: Noise Analysis Updates due to bridge shift

Introduction

Updates to the design of the Recommended Preferred Alternative (RPA) involved shifting a bridge approximately 22' closer to residences in NSA X. The design updates also involved shifts to connecting collector/distributor ramps, as well as refinements of grading in the area. The grading refinements include adding a vertical wall where the proposed roadway grade is either above or below the existing ground elevation.

Build-case and barrier noise models for the area were updated, rerun, and reanalyzed.

Updated Impact Results

A comparison between build case results in the original and updated model is shown in the table below. Impacts are highlighted in red (levels in excess of the impact threshold of 66 dBA). Only receptors in the northern portion of NSA X (the area nearest the design updates) are included.

Receptor	Original Build Level (dBA)	Updated Build Level (dBA)	Change
X40	71.1	69.7	-1.4
X41	65.6	65.4	-0.2
X42	67.6	65.9	-1.7
X43	67.3	66.4	-0.9
X44	67.4	67.4	0
X45	65.8	66.6	0.8
X46	61.1	59.7	-1.4
X47	66.8	68.6	1.8
X48	67.5	69.3	1.8
X49	60.7	59.8	-0.9
X50	69.3	70.3	1.0
X51	69.6	70.1	0.5
X52	59.7	58.8	-0.9



	Original Build	Updated Build	
Receptor	Level (dBA)	Level (dBA)	Change
X53	69.2	69.7	0.5
X54	69.3	69.7	0.4
X55	73.6	74.1	0.5
X56	68.2	68.5	0.3
X57	60.0	59.4	-0.6
X58	60.6	59.5	-1.1
X59	69.2	69.6	0.4
X60	71.9	72.5	0.6
X61	60.0	60.1	0.1
X62	70.9	71.4	0.5
X63	60.9	60.7	-0.2
X64	59.9	59.9	0
X65	70.7	71.6	0.9
X66	59.4	59.3	-0.1
X67	62.2	62.3	0.1
X68	61.0	60.9	-0.1
X69	68.6	69.6	1.0
X70	62.8	62.8	0
X71	63.6	63.6	0
X72	58.6	58.5	-0.1
X73	66.5	66.9	0.4
X74	61.5	61.6	0.1
X75	60.5	60.5	0
X76	61.6	61.6	0
X77	65.0	65.3	0.3
X78	62.7	62.8	0.1
X79	63.7	63.7	0
X80	56.0	56.0	0

The largest increase in build noise levels was 1.8 dB, and the largest decrease was 1.7 dB. Two receptors changed impact status: X42 changed from impacted to non-impacted, and X45 changed from non-impacted to impacted. Therefore, the overall number of noise impacts in the project remains the same. The updated impact information is shown in Figure 1 below.





LEGEND Barrier X (not reasonable) Receptor impact status Impacted Not Impacted New Impact No Longer Impacted 370 **FDR NSA X - UPDATED RESULTS**

Figure 1. Updated Impacts in northern half of NSA X





CAROLINA CROSSROADS

Updated Barrier Analysis

Previously, the barrier investigated to shield impacted receptors in NSA X was found to be not reasonable, as it could not meet the SCDOT reasonableness criteria of providing at least 8 dB of noise reduction to at least 80% of benefited receptors. The barrier model was updated to account for the design changes in this area. Updated results of the barrier analysis are below.

Barrier X – Impacted Receivers X1, X8, X11-X12, X14, X17, X21, X23, X27-X28, X31-X32, X35, X39-X40, X43-X45, X47-X48, X50-X51, X53-X56, X59-X60, X62, X65, X69, X73¹

Barrier X is a 5,697 foot long noise wall whose height is 25 feet.

Feasibility:

Acoustic Feasibility: SCDOT noise policy states that a noise reduction of at least 5 dBA must be achieved for 75 percent of the impacted receivers. This was achieved for 28 of the 33 impacted receivers (85%). This meets the SCDOT allowable percentage (75%) per impacted receiver. A total of 32 receivers (including impacted and non-impacted) achieved 5 dBA of noise reduction.

Engineering Feasibility: No known issues at this time.

Reasonableness:

Noise Reduction Design Goal: SCDOT noise policy states that a noise reduction of at least 8 dBA must be achieved for 80 percent of the benefited receivers in the first two building rows. Of the 32 benefited receivers in the first two rows, there were 16 that achieved the 8 dBA reduction (50%). This does not meet the SCDOT allowable percentage (80%) of the benefited receivers.

Cost Effectiveness: The cost effectiveness analysis is not applicable since the noise reduction design goal was not met.

<u>Conclusion:</u> Based on the above results of the detailed analysis, this abatement feature is feasible but not reasonable, and is not proposed as part of this project.

Conclusions

Due to design changes in the vicinity of NSA X, the noise analysis in that area was updated, including the build model and the barrier analysis. No change greater than 2 dB was observed. One receptor changed impact status from non-impacted to impacted, and one receptor changed impact status from impacted to non-impacted. The barrier status remains not reasonable.

¹ Receiver X1 represents a retirement home patio with 2 equivalent dwelling units.





APPENDIX B SHPO Coordination





MEMORANDUM

July 8, 2020

To: Elizabeth Johnson, SCDAH

Keely Lewis, SCDAH

From: Tracy Martin, SCDOT

Will McGoldrick, SCDOT Josh Fletcher, HDR

Re: Carolina Crossroads Project: SAC 2015-01080

Justification for reduction of construction buffer at the northern end of the Saluda Canal

SCDOT PIN P027662

The South Carolina Department of Transportation (SCDOT) is currently in the process of purchasing right of way (ROW) parcels for the proposed Carolina Crossroads project. During a review of ROW and project design, it was identified that the proximity of the proposed ramp near the northern end of the Saluda Canal would create constructability issues for SCDOT's design/build contractor.

The proposed ramp is at the northern end of the Saluda Canal Historic District and will not overlap the mapped limits of the canal. While the ROW for the proposed ramp is approximately 60 feet wide (to the west of the proposed ramp), in areas where the proposed ramp is closer to the canal, the ROW has been reduced in order to not overlap the canal; at one location along eastern edge of the canal, the ROW is approximately 14 feet from the edge of the ramp.

In this northern end of the Saluda Canal, two drainages enter the canal from the east. These drainages are approximately 350 feet apart. Generally, the condition of the canal is very poor in the area between these two drainages. The banks of the canal are difficult to discern and were largely mapped using the georeferenced route from an historic map of the Saluda Canal, LiDAR imagery, and mid-20th century aerial photographs. In this area, the width of the canal ranges from approximately 40-50 feet with either no depth or only mild, uneven depressions of a couple of feet, whereas in more intact and deeply incised portions of the canal to the south of the southern drainage, the canal is a fairly uniform 30 feet wide with well-defined banks, with a depth of up to approximately six feet and three noted occurrences of intact stonework sections.

As noted in the cultural resources survey report, "No sign of the canal head or entrance from the Saluda River was discovered, nor was any trace of the dam described as being near the head of the canal found, and it is probable that these entities were the victim of floods and erosion, or, in the case of the dam, possible dismantlement." (Sipe et al. 2018: 54). In addition to periodic flooding of the Saluda River in this section of the canal that is closest to the river, it is believed that the two drainages that empty into the canal have caused a great deal of erosion and silting in of the canal. There is an approximately 45-foot long section of aligned stones on the western bank of the canal in the area between the two drainages. There are no intact features on the eastern bank of the canal in this area. An intact alignment of stones is present on the eastern bank of the canal just south of the southern drainage that cuts into the canal but this alignment will not be impacted by the proposed construction.

Prior to any construction activities, protective fencing will be installed along the edge of the previously proposed 25-foot buffer along the majority of the canal. It is requested that the buffer for the Saluda





Canal Historic District be reduced in the area between the two drainages, and for a length to the south of the southern drainage, to allow room for temporary construction access and equipment. In those areas, the protective fencing will be installed along the proposed ROW along the edge of the canal. During timbering/landclearing activities prior to construction, an archaeologist will be present to ensure that these activities undertaken close to the fencing do not damage the canal. During construction, an archaeologist will visit the construction site twice a week to ensure that no activities have crossed over the protective fencing. Any observations during these visits will be recorded in an inspection log that will be made available to the SHPO.

ec: Brian Klauk, Program Manager, Carolina Crossroads Project

Reference Cited

Sipe, Ryan, David Adair, Michael Miller, Bill Jurgelski, and Tracy Martin. 2018. *A Cultural Resource Survey of the Proposed Improvements to the Carolina Crossroads Corridor. Carolina Crossroads. I-20/26/126 Corridor Improvements. Lexington and Richland Counties, South Carolina*. Prepared for SCDOT and FHWA. Prepared by Edwards-Pitman Environmental, Inc.







Figure 1. Example of the canal, south of southern drainage.







Figure 2. Northern drainage.







Figure 3. Southern drainage.







Figure 4. Portion of the canal between the two drainages.







Figure 5. Portion of the canal between the two drainages.







Figure 6. Alignment of stones on the western edge of canal, in the portion between the two drainages.

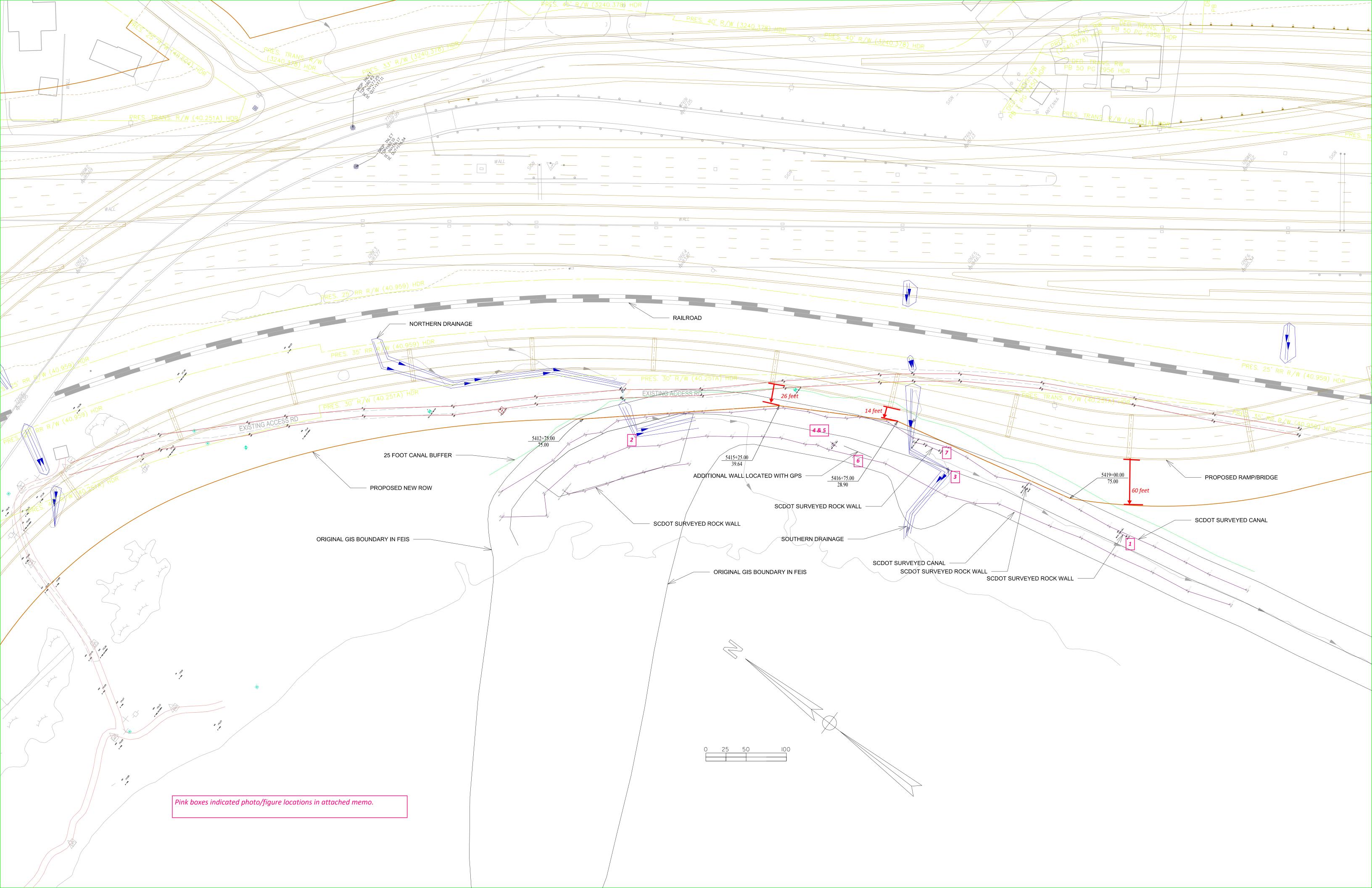




Figure 7. Stacked stone feature near right of way, to the south of the southern drainage.











Ms. Elizabeth Johnson Director, Historical Services, D-SHPO State Historic Preservation Office SC Department of Archives & History 8301 Parklane Road Columbia, SC 29223

RE: Carolina Crossroads Project: SAC 2015-01080 Justification for reduction of construction buffer at the northern end of the Saluda Canal, Lexington and Richland Counties, South Carolina.

Dear Ms. Johnson:

The South Carolina Department of Transportation (SCDOT) is currently in the process of purchasing right-of-way (ROW) parcels for the proposed Carolina Crossroads project. During a review of ROW and project design, it was identified that the proximity of the proposed I-26 Ramp C near the northern end of the Saluda Canal Historic District would create constructability issues for SCDOT's design/build contractor.

Proposed Ramp C is at the northern end of the Saluda Canal Historic District and will not overlap the mapped limits of the actual canal. However, the ROW will overlap the buffer created as the boundary for the Saluda Canal Historic District. The ROW for the proposed ramp is approximately 60 feet wide (to the west of the proposed ramp). In areas where the proposed ramp is closer to the canal, the ROW has been reduced in order to not overlap the canal. At one location along eastern edge of the canal, the ROW is approximately 14 feet from the edge of the ramp.

The northern end of the Saluda Canal has been impacted by two drainages that enter the canal from the east and are approximately 350 feet apart. In addition to periodic flooding of the Saluda River in this section of the canal that is closest to the river, it is also believed that the two drainages that empty into the canal have caused a great deal of erosion and silting in of the canal itself. This has left the banks of the canal in this area somewhat difficult to discern. This portion was largely mapped using the georeferenced route from an historic map of the Saluda Canal, LiDAR imagery, and mid-twentieth century aerial photographs. In this area, the width of the canal ranges from approximately 40- to 50-feet and features very little to no depth, whereas in more intact and deeply incised portions of the canal to the south of the southern drainage, the canal is a fairly uniform 30-feet wide with well-defined banks, with a depth of up to approximately 6-feet and three noted occurrences of intact stonework sections.

There is an approximately 45-foot long section of aligned stones on the western bank of the canal in the area between the two drainages. There are no intact features on the eastern bank of the canal in this area. An intact alignment of stones is present on the eastern bank of the canal just south of the southern drainage that cuts into the canal but this alignment will not be impacted by the proposed construction.



It is requested that the proposed ROW be allowed to cross over the buffer for the Saluda Canal Historic District for a distance of approximately 60-feet north of the northern drainage, the 350-feet between the northern and southern drainages, and approximately 260-feet south of the southern drainage.

In order to protect the boundary of the canal and the features associated with it, the following will be added to the contract as commitments:

- a. Prior to construction activities orange protective fencing will be installed along the edge of boundary of the Saluda Canal Historic District in areas that will maintain the original buffer as well as those areas where the buffer has been requested to be reduced between the two drainages and for a length to the south of the southernmost drainage.
- b. Prior to construction activities silt fencing will be installed along the edge of SCDOT ROW to prevent runoff.
- c. For areas along the identified Saluda Canal located along the I-26 Ramp C beginning Station 5412+50 and ending Station 5419+50 clearing will be allowable to the ROW but grubbing will be limited to within a distance of 5-feet inside of the ROW. Grubbing activities within the 5-foot buffer will require approval from SCDOT prior to occurring.
- d. During land clearing activities prior to construction, an archaeologist will be present to ensure that these activities undertaken close to the fencing do not damage the canal.
- e. During construction, an archaeologist will visit the construction site twice a week to ensure that no activities have crossed over the protective fencing. Any observations during these visits will be recorded in an inspection log that will be made available to the SHPO.
- f. As soon as an inadvertent impact is discovered, such as a previously unidentified cultural resource, archaeological feature, or artifact, construction in that area will stop immediately until an onsite consultation with SCDOT archaeologists and SHPO can determine the best strategies for avoiding, minimizing, or mitigating adverse effects upon the resource.

Based on the results of the background research and field investigations, SCDOT therefore recommends that the proposed project would have **no adverse effect** upon the Saluda Canal or the Saluda Canal Historic District.

Per the terms of the Section 106 Programmatic Agreement executed on October 6, 2017, the Department is providing this information on behalf of the Federal Highway Administration. It is requested that you review the enclosed material, and, if appropriate, indicate your concurrence in the Department's findings. Please respond within 30 days if you have any objections or if you have need of additional information.

Sincerely,

Tracy Martin Chief Archaeologist

Many Man

TAM:tam

I (do not) concur in the above determination.

Signed: 26/11/2020

Pearson, Jennifer

From: Martin, Tracy < MartinT@scdot.org>
Sent: Wednesday, July 22, 2020 10:25 AM

To: Pearson, Jennifer

Subject: Fwd: P027662 Carolina Crossroads Change Notification/update

Attachments: 27662-Concurrence letter and attachments - SHPO signed July-9-2020.pdf;

ATT00001.htm

CAUTION: [EXTERNAL] This email originated from outside of the organization. Do not click links or open attachments unless you recognize the sender and know the content is safe.

Sent from my iPhone

Begin forwarded message:

From: "Martin, Tracy" <MartinT@scdot.org>
Date: July 10, 2020 at 3:39:00 PM EDT

To: "Section106@mcn-nsn.gov" <Section106@mcn-nsn.gov>, "elizabeth-toombs@cherokee.org"

<elizabeth-toombs@cherokee.org>

Cc: "Belcher, Jeffery - FHWA" < Jeffrey.Belcher@dot.gov>, "McGoldrick, Will" < McGoldriWR@scdot.org>

Subject: P027662 Carolina Crossroads Change Notification/update

All,

Per the original concurrence letters for the Carolina Crossroads I-20, I-26, and I-126 Corridor Improvements Project a stipulation was made for notification upon changes or updates to the project. Please see the attached letter for the proposed effects inside the Saluda Canal Historic District boundary. We've coordinated with SHPO on these revisions and received their concurrence. Please let me know if you have any questions.

Thanks,

Tracy Martin

Chief Archaeologist SC Department of Transportation 955 Park Street, Columbia SC, 29201 Office 803-737-6371 / Cell 803-206-1223

