

Bridge Package 15 - Contract ID 8862230 - Anderson, Chester, Chesterfield, and Lancaster Counties

FINAL RFP - ROUND 3

D	ate Received:	1/19/2023				0000
Question No.	Category	Section	Page / Doc No.	Question/Comment	Response	SCDO Exi
1	Attach_B	Environmental		We understand that the Department previously answered that, information on "formal" was needed for the bat studies. However, according to each of the BAs "'Tricolored bat habitat was surveyed and identified within the forested areas on site as well as under the S-XYZ bridge; however, there were no signs of bat usage. A formal survey for tricolored bat was not conducted." Is there, or will there be a bat-related tree-clearing or demolition restrictions, or additional surveys required for any of the bridges if a proposer's design does not increase the clearing area from the Department's findings in NEPA? If a proposer's design does not increase the tree clearing, do additional bat surveys need to be done now or after NLEB changes status or Tri-color is listed? If there is habitat, will all bridges need to be surveyed if these cannot occur after tricolor is listed? If so, please elaborate on what needs to be done, who is responsible, and if you foresee any affects on the project schedule. Is the programmatic BO still applicable once NLEB the is E? If the BA is not sufficient for either, describe what needs to be accomplished to reach an updated effect determination.	No_Revision	Per the USFWS, the decision to issu to be extended. Existing determinar formalized. Per a recent email from bridges are located are not conside Currenlty the tricolor bat is not offi- species under Section 7 regulations would be expected that the project promulgated regulations as publish speculate on what the specific requ current direction regarding NLEB co structure (culvert) inspections may Clearing moratoriums may be part no published guidance to date rega
2	Attach_A	Exhibit 6	323/324	Can the SCDOT please state the time frame teams should anticipate waiting for the USACE to turn around a GP or NWP approval? For example, would SCDOT consider providing a USACE permitting chart similar to the SCDHEC chart located in the information package.	No_Revision	No chart. General estimated timefr on complete submittals and coordi
3	Attach_A	Exhibit 6	323/324	If a proposer uses the GP, would SCDOT please define the stream impact length which, if exceeded, the agencies will require stream mitigation?	No_Revision	Each submittal would be considered on NWP Regional conditions, the lo will require mitigaiton and a PCN su
4	RFP	4	Exhibit 4b Section 2.1.16	In the RFP Exhibit 4b Section 2.1.16 Pile Sizes and Types, it states where the geotechnical report indicates corrosion is a concern, use the entire perimeter of steel in contact with soil/water when determining sacrificial thickness for the design life of the member The Geotechnical Baseline Reports indicates that three bridge sites are "non-aggressive" while the soil conditions at S-108 over Brown Creek is "aggressive". Can SCDOT provide an expected corrosion rate for all proposers to use in their design for this site?	Revision	For S-108 over Brown Creek, use a c for steel piles exposed to in-situ soi

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١T planation sue the final rule on NLEB is being evaluated nations will stand as is until such rule is m FWS, the counties in which all Package 15 lered within the range of the NLEB. ficially listed as a threatened or endangered ns. If the status of tricolor bats changes, it cts would need to comply with shed by USFWS. The SCDOT cannot uirements will be but can deduce based on counties, that acoustic surveys and y be required for each uncleared site. t of the USFWS's requirements but there is garding tricolor bats. frames for GP/NWPs are 90-180 days based lination effort level.

ed on its own merit by the USACE. Based loss of more than 0.005 acres of stream bed submission to the USACE.

corrosion rate of 0.0005 inches per year il



tmei	5	Attach_B			Hydro Section, Package 15 Min Span Length: Can SCDOT confirm the required minimum channel span length for S-53 over Little Rocky Creek. Hydraulics requirements in Attachment B show 100' however, the Concept Plans show 90' channel span. Please confirm for all teams.	No Revision	Concept Bridge plans and min. cha 100' minimum channel span. 100' i
	6	RFP	4	15/41	In Section 4.1 Technical Proposal, #2 Proposer's Innovation and Added Value, can the proposers put the quality matrix within our appendices?	No_Revision	Yes. This is stated in Section 4.1 (6)
	7				Fairfield Electric Coop has stated that they are waiting for the completion of Project ID P038282 (SC 901 Mountain Gap Road Bridge Over Rocky Creek) to be completed before they can relocate their lines over S-53 (Ross Dye Road). Can a timeline be provided as to the expected completion date of Project ID P038282 so we can work this date into the critical path of our schedule?	No_Revision	Current contract completion date i

channel length in Attachment B both show 0' is the minimum channel span length.

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te is 9/30/23.



Bridge Package 15 - Contract ID 8862230 - Anderson, Chester, Chesterfield, and Lancaster Counties

FINAL RFP - ROUND 2

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Question No.	Category	Section	Page / Doc No.	Question/Comment	Response	Ex
1	Attach_A	Exhibit 4e	Page 3 / 2.2.1.4	 *FIGURES 1-6 ARE INCLUDED IN THE SUBMITTAL IN ADDTION TO THIS SPREADSHEET* As recommended in the RFP, RK&K ran the HEC-RAS Model provided by SCDOT for S-294 bridge replacement over Wilson Creek. In our review of the provided model, RK&K found several technical inconsistencies in the model that do not meet SCDOT criteria. 1. The RFP Conceptual Proposed Bridge Model used a 100' single span bridge, however, the Conceptual Bridge Plans showed a 130' multi-span bridge. 2. The existing bridge structure depth, pier widths, pier locations, bridge length, and ineffective flow locations and elevations. 3. The ground line provided in the model shows a significant increase in grade elevation at the bridge that is unrealistic of a natural stream grade line (See Figure 1). 4. Eneffective flows for the Corrected model were showing the bridge overtopping at the 50-year event. However, all storm events were blocked downstream of the bridge. 5. Contraction and Expansion Coefficients do not follow the guidance provided in the HECRAS Hydraulic Reference Manual for both the corrected, and proposed models. These bank stations should match across all three models (Figures 4-6) Once the provided models were corrected, the Existing Conditions backwater increased from 1.52 ft. to 2.69 ft. 	Revision	 1. The RFP Conceptual Proposed Bridg however, the Conceptual Bridge Plan model provided with correct bridge left 2. The existing bridge structure depth, and ineffective flow locations and eleft 3. The ground line provided in the mo- elevation at the bridge that is unreali 1). Ground line reflects survey data in had an approximate channel "burned data. A more consistent stream line in downstream as opposed to assumed 4. Theffective flows for the Corrected in at the 50-year event. However, all stop bridge. Updated model provided cor 5. Contraction and Expansion Coefficient the HECRAS Hydraulic Reference Mar bridge models (Figure 3). Updated mic coefficients. 6. Bank Stations vary from the unrestric These bank stations should match action model provided with corrected bank

Phone: (803) 737-2314 TTY: (803) 737-3870

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Explanation

idge Model used a 100' single span bridge, ans showed a 130' multi-span bridge. Updated e length.

th, pier widths, pier locations, bridge length, elevations. Updated model provided.

nodel shows a significant increase in grade alistic of a natural stream grade line (See Figure a in the vicinity of the bridge. Effective model ed" into the data. Survey reflects actual field are may require additional survey upstream and ed data.

d model were showing the bridge overtopping storm events were blocked downstream of the correcting this issue.

icients do not follow the guidance provided in Ianual for both the corrected and proposed model provided with conraction/expansion

stricted, corrected, and proposed models. across all three models (Figures 4-6). Updated nk stations.



Bridge Package 15 - Contract ID 8862230 - Anderson, Chester, Chesterfield, and Lancaster Counties

FINAL RFP - ROUND 1

D	ate Received:	12/9/2022	,	FINAL REF - ROUND	•		
		12/0/2022					
Question No.	Category	Section	Page / Doc No.	Question/Comment	Discipline	Response	
1	Attach_A	Exhibit 4e	P3 / 2.2.1.3	Please clarify whether Freeboard is based upon our proposed bridge 25-year event water surface elevation, or natural (unconstructed) 25-year event water surface elevation.	Hydrology	Revision	Freeboard is based on the will be revised to clarify.
2	Attach_B	Hydraulics	3	In Exhibit 4e Section 2.2.1.1, the RFP states "Hydraulic Models and Memos are provided in Project Information Package. These models provide natural, existing, and conceptual designs. Teams will create new geometry files and project runs for proposed designs so that provided models are not changed." The design team believes there are issues that need corrected in the unrestricted (natural) run and possibly some changes that should be made to the existing models, including updating the models to reflect the effects of the downstream dam and adding S-766 into the natural model per standard industry practice and the RFP backwater requirements. Please confirm that it is acceptable to update the natural and existing runs which will result in changing the provided models.	Hydrology	Revision	It is acceptable to update a intent is for Teams to rena model files provided by SC clarify.
3	Attach_A	Exhibit_4a	Page 3	Section 2.12 lists requirements for superelevation rates and addresses criteria for correcting superelevation in curves however it does not dictate requirements for where construction ends. If construction ends within a curve and the profile ties down, does SCDOT desire teams to correct the full curve and transition limits or will it be suitable to tie into the existing superelevation rate at the tie location?	Roadway	Revision	With the exception of S-53 superelevation rate at the to tie into said superelevat
4	Attach_A	Exhibit_4a	Page 3	Section 2.14 references the RDM Chapter 18 3R criteria for roadside safety. RDM Section 18.2.12 states"Achieving a roadside clear zone on a 3R project may be impractical. The roadside environmentthe designer cannot ignore the consequences for a run-off-the-road vehicle. Therefore, the designer should exercise considerable judgment when determining the appropriate clear zone on the 3R project. The most desirable objective for 3R projects will be to provide a clear zone equal to the criteria for new construction and reconstruction projects." Does the department desire to correct roaside slopes in causeway/wetland areas with deficient slopes or provide guardrail to an acceptable termination point where existing roadside slopes meet design criteria, or will the SCDOT only require guardrail for bridge end protection to minimze R/W from traversable fill slopes.	Roadway	No_Revision	As stated "the designer sho bridge site will require eng design. The designer will n affect each site, such as en

SCDOT
Explanation
e design event with the proposed structure. The RFP
e any model runs as the EOR deems necessary. The name them so that they can be identified from the SCDOT in submittals. The RFP will be revised to
53, it is acceptable to tie into the existing le profile end. Ensure proper transitions are utilized ration rate.
should exercise consideral judgement". Each 3R ngineering judgement for the appropriate roadside need to balance clearzone with other elements that enviornmental/wetlands, etc.



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RFP FOR INDUSTRY REVIEW

D	ate Received:	11/18/2022				Meeting Date	: 11/30/2022
Question No.	Category	Section	Page / Doc No.	Question/Comment	Discipline	Response	
1	Attach_A	Agreement	13	Section states contractor shall provide sufficient number of SCDOT certified personnel. Can more explanation be given for "sufficient number"?	Construction	No_Revision	It is up to the Contractor personnel to complete t
2	Attach_A	Agreement	26	The construction windows for each of the bridges appear relatively short. Based on these schedules, the work would likely require accelerated construction methods and extended work hours that come at an increased cost. Will the department consider extending all or any of the construction schedules to eliminate these additional expenditures?	Construction	Revision	Construction timeframe
3	Attach_B	Environmental	PCEs	Will the Design-Build team be responsible for formal bat surveys due to the potential uplisting of the northern long-earred bat and/or the proposed listing of tri-colored bat?	Environmental	No_Revision	Need info on "formal". N Programmatic BO and th coordination between F determining effects to th appropriate level field a
4	Attach_A	Exhibit 4f	P5 / 2.0	Paragraph 3 states "Where required by design and construction, all temporary and permanent shoring submittals shall be reviewed and approved by the Lead Design Engineer and Geotechnical Engineer of Record (GEOR) for the Project prior to submitting to SCDOT's Resident Construction Engineer (RCE)". Please define situations that are required versus those that are not required.	Geotechnical	Revision	All temporary and perm approved by the EOR an construction," has been
5	Attach_A	Exhibit 4f	P3 / 4th Paragraph	Please define " <i>structural element</i> " in this paragraph. Is an As-Installed Driven Pile Foundation Package required for each individual substructure element? For example for each bent vs. each footing.	Geotechnical	No_Revision	Generally speaking, this different driving criteria per column footing if dr elements have the same single package. The lang sending PDA reports and haven't been reviewed l
6	RFP	6	82 of 323 of PDF	Page 35 of 92 of the Agreement (page 82 of 323 of the PDF); paragraph 6, Hazardous Materials Insurance Requirement. Limits of pollution liability is missing the annual aggregate dollar amount.	HazMat	Revision	Dollar amount added.

SCDOT

Explanation

or to determine the sufficient number of certified the project.

nes will be revised.

. NLEB analysis was done in accordance with the therefore the effect determination stands per FHWA and FWS. Teams will be responsible for tri-color as part of their final design through assessment.

manent shoring submittals shall be reviewed and and GEOR. "Where required by design and n removed from the RFP for clarity.

is would apply to each structural element that has ia, which would typically be per bent, though could be driving conditions differ that drastically. If structural ne driving critieria, then they could be grouped into a nguage is included to prevent the Contractor from nd/or production pile driving logs to the RCE that by the EOR and GEOR.



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7	Attach_A	Exhibit 4e	4	 For S-765 it states backwater modeling will be based on future replacement of the S-766 bridge that produces less than 1 foot of backwater. Is there any design information avaialable of the S-766 bridge site. Without any proposed design for S-766, achieving backwater requirements may not be possible. 	Hydrology	No_Revision	A conceptual downstrea use this downstream con intent is for S-766 to pro the upstream S-765 brid
8	Attach_A	Exhibit 4e	4	 RFQ Section 2.3 states "The Project Information Package, which is posted on the SCDOT Design-Build website, is for information only and is not part of the Contract. SCDOT makes no representations or warranties regarding the reliability or accuracy of the information contained therein and Proposers assume the risk in using this information." Does this include modeling assumptions made during preliminary modeling efforts for the S-765 bridge and in reference to assumptions made regarding the geometry of the S-766 proposed future bridge? What assumptions should be utilized for the future S-766 bridge during the pursuit phase since a 2D model cannot be prepared within the pursuit time frame as the preliminary data acquired, including survey, is insufficient to produce a 2D model? 	Hydrology	No_Revision	Memos and Models will final documents. Assum foot of backwater for de bridge model is included conceptual model or dev produce 1 foot (maximu bridge.
9	Attach_A	Exhibit 4e	P4 / 2.2.1.4	Are the plans and hydraulic models avalable for the future S-766 bridge replacement? If so, will they be provided?	Hydrology	No_Revision	A conceptual downstrea use this downstream con intent is for S-766 to pro the upstream S-765 brid
10	Attach_A	Exhibit 4e	P4 / 2.2.1.4	If there are no plans/hydraulic models for S-766, should the preliminary study assumption of 0.4' of backwater be used in the S-765 Study?	Hydrology	No_Revision	Hydro model will contain this model or develop th foot or less of backwater
11	Attach_A	Exhibit 4e	P4 / 2.2.1.4 - 4th Bullet	Why is a 2D study required? Is it to verify the ineffective flow information? Please provide more information as to what the objective is for the 2D study.	Hydrology	No_Revision	2D required for significathe bridge.
12	Attach_A	Exhibit 4e	P4 / 2.2.1.4	Will requiring a Level 3 (2D) Analysis violate PCDM-11 removing the project from Low Volume status?	Hydrology	No_Revision	No.
13	Attach_A	Exhibit 4e	P4 / 2.2.1.7	Requirements stipulate 5-foot setback from top of channel bank, however conceptual plans for S-04-294 show drilled shaft only 2-feet from the top channel bank and in the channel bank slope. Is placement of drilled shaft allowable as shown in conceptual plans?	Hydrology	No_Revision	Yes, setback is achieved
14	Attach_A	Exhibit 4e	P4 / 2.2.1.7 & 2.2.1.8	In the case of a meandering stream, are the required setbacks to be applied at the centerline or at the closest point upstream or downstream?	Hydrology	Revision	See Figure 4 in HDB 2019 allow for design as show

eam bridge model is included in the PIP. Teams may conceptual model or develop their own for S-766. The roduce 1 foot(maximum) of backwater for design of idge.

ill remain in PIP because they are not complete and mption of downstream S-766 bridge producing max 1 design of S-765 bridge. A conceptual downstream ed in the PIP. Teams can use this downstream levelop their own for S-766. The intent is for S-766 to num) of backbater for the design of the upstream S-765

eam bridge model is included in the PIP. Teams may conceptual model or develop their own for S-766. The roduce 1 foot(maximum) of backwater for design of ridge. No future plans are available.

ain a conceprtual S-766 bridge model. Teams may use their own downstream S-766 model to produce one ter to design the upstream S-765 bridge.

cant improvement in calculating hydraulic variables at

ed from surveyed top of bank line.

019-4. For S-108 a revision will be made to Exhibit 4e to own in conceptual plans.



<i>is not required"</i> , however DOT design criteria". excecpt S-53.	Revision	Will Clarify that 500 yea bridges but is required f
covided by drey lie		criteria.
rovided hydraulic ent B and included as lesign team can use as he R1_Hydro Models Hydrology ation Package. Would B and part of the design	No Revision	Memos and Models will final documents.
ted to one phase (ex. For Construction (RFC)) of e all design deliverables roadway segment AND/OR plans to be submitted	Revision	Language will be change package to be submittee
idge site downstream from Roadway	No Revision	Survey data for the S-76 survey files have been p
of 323 of the PDF); DBE ervices, 17% for I for this type of work. had a 10% goal & CLRB Other der a reducing the goal hese aforementioned	No_Revision	No. The DBE goal will no
n Attachment B/Hydrology criteria are met?	No_Revision	In most cases, no. In sel reduction through the A modelling that all criteri backwater values provid
mmary reports are not 2.0 requires Preliminary, Structures . Please clarify.	Revision	Exhibit 4z Section 2.0 wi
<i>use the detour routes</i> outes are provided in Traffic vailable.	Revision	Will be provided.
76 of 323 of the PDF); achment B. These Traffic 3. Please provide.	Revision	Will be provided.
lehae to en più piel luk no no no vi 7 a	esign team can use as he R1_Hydro Models htion Package. Would a and part of the design ed to one phase (ex. or Construction (RFC)) of all design deliverables oadway segment AND/OR blans to be submitted dge site downstream from for this type of work. had a 10% goal & CLRB er a reducing the goal hese aforementioned Attachment B/Hydrology criteria are met? Mmary reports are not 2.0 requires Preliminary, Please clarify. se the detour routes putes are provided in railable. Traffic	esign team can use as he R1_Hydro Models stion Package. Would B and part of the designHydrologyNo_Revisioned to one phase (ex. or Construction (RFC)) of all design deliverables oadway segment AND/OR olans to be submittedDMRevisiondge site downstream from f 323 of the PDF); DBE rvices, 17% for for this type of work. had a 10% goal & CLRB er a reducing the goal nese aforementionedRoadwayNo_RevisionAttachment B/Hydrology rriteria are met?StructuresNo_Revisionmmary reports are not 2.0 requires Preliminary, Please clarify.StructuresRevisionse the detour routes putes are provided in ailable.TrafficRevision6 of 323 of the PDF); achment B. TheseTrafficRevision

ear is not required for quallifing low volume criteria d for S-53 because of its need to meet full design vill remain in PIP because they are not complete and nged as requested to allow for a road and a bridge ted simultaneously. -765 downstream bridge is not available. All available provided in Attachment B. not be revised.

select cases, we will evaluate total bridge length e ATC process, if the team demonstrates with hydraulic eria is met, including maintaining or reducing the vided in the conceptual designs.

will be revised for consistency.



Bridge Package 15 - Contract ID 8862230 - Anderson, Chester, Chesterfield, and Lancaster Counties

REQUEST FOR QUALIFICATIONS

Da	ate Received:	10/6/2022				
						SCDO
Question No.	Category	Section	Page / Doc No.	Question/Comment	Response	Ex
1		3	3.5.2,	The sixth question at the top of the page, "Has an owner, a Lead Contractor, or any member of a joint venture pursued compensation from the Lead Designer due to errors and omissions?" Owner and joint venture are not capitalized (assumed to be a general reference), Lead Contractor and Lead Designer are capitalized. Please clarify if "Lead Contractor" and "Lead Designer" are specific references to these entities for this project and are therefore capitalized, or if they are used in general reference and should be lower case.	No_Revision	"Lead Contractor" and "Lead Desig for this project.
2		3	page 15 of 27	The seventh question at the top of the page, "Has the Lead Designer filed legal proceedings against the Lead Contractor, or vice versa, on a design- build contract?" Since "Lead Designer" and "Lead Contractor" are capitalized, please confirm that these are specific references to these entities for this project.	No_Revision	"Lead Contractor" and "Lead Desig for this project.
3			3	We have reviewed the opportunities for DBE subcontractors on the project and feel the DBE goal of 17.1% is high for the scope of work. Would SCDOT consider revising the DBE goal?	No_Revision	No. The DBE goal will not be revise



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gner" are specific references to the entities
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