Geotechnical Summary Report

(Roadway Information) over (Crossing Information) Bridge Replacement Project in (County), SC

Project ID:

Date:

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Summary (anticipated 6 pages max)

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B-3) Interior Bents Foundation Analysis Calculations (if applicable)

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Appendix C: Geotechnical Plan Notes

 C-1) Plan Notes

 C-2) Bid Items/Quantities

**Summary**

*Project Information and Subsurface Conditions*:

* Purpose of project, location, GDM version
* Proposed bridge configuration
* Proposed construction limits and grade changes
* Subsurface exploration work order details (firm, dates, etc.)
	+ Use 2022 GDM Table 21-3
* Include groundwater information table, and design groundwater
* Include scour elevation statement and table
	+ Statement – where scour elevation came from (RPGHDS or Consultant)

*Recommendations*:

* End Bent foundation type and generalized design requirements
	+ Pile type and governing condition, use 2022 GDM Table 21-8
	+ Table with loading, resistance factor, minimum tip, estimated tip, use 2022 GDM Table 21-6 for Driven Piles and Table 21-7 for Drilled Shafts
		- For Drilled Piles follow the requirements provided in 2022 GDM Chapter 16 and use the appropriate table
	+ Table with all driving parameters, and hammer energy for driven pile, use 2022 GDM Table 21-9
	+ Any settlement or lateral movement issue
* Interior Bent foundation type and generalized design requirements (if applicable)
	+ Pile type and governing condition, use 2022 GDM Table 21-8
	+ Table with loading, resistance factor, minimum tip, estimated tip, use 2022 GDM Table 21-6 for Driven Piles and Table 21-7 for Drilled Shafts
		- For Drilled Piles follow the requirements provided in 2022 GDM Chapter 16 and use the appropriate table
	+ Table with all driving parameters, and hammer energy for driven pile, use 2022 GDM Table 21-9
	+ Any settlement or lateral movement issue
* ERS information/analysis (if applicable)
	+ Include permanent and temporary shoring design parameters, use 2022 GDM Table 21-12
* Any general construction considerations for the project (if applicable)