

Appendix F

Response to Pennoni Associates, Inc. Comments Dated December 4, 2008

Response to FHWA Comments Dated December 5, 2008



SR1/I-95 Interchange

Preliminary Foundation Report - Retaining Walls

CONTRACT NO. 28-090-03

REVIEWER: Ahmad W. Faqiri, P.E.

REVIEW COMMENTS

Sheet No.	Comment	Made By	Date	Action	By	Date
14	First sentence is referencing Figure A-2f for the location of Retaining Wall 9. The correct Figure is A-2e.	AWF	12/4/08	Will Comply.	RK&K	12/29/08
36-57	Data presentation for Retaining Wall 1, 2 and 3 is inconsistent with that of Retaining Wall 4 to 16. Soil parameters are tabulated for Retaining Walls 4 to 16.	AWF	12/4/08	Location specific soil parameters were developed based on laboratory testing in the vicinity of a specific structure. The generalized soil parameters provided in Table 4.1 are conservative and generalized for the entire project site. In many cases the site specific soil parameters are greater than the conservative generalized soil parameters.	RK&K	12/29/08
43-57	Tables numbers containing Summary of Retaining Wall Soil Parameters are referenced incorrectly.	AWF	12/4/08	Table numbers have been updated in the FFR - Retaining Walls.	RK&K	12/29/08
59	For the retaining wall foundation alternatives, is it possible to consider other systems such as: post and plank walls, sheet piles with concrete cap, T-walls, Conspan anchored walls, etc.	AWF	12/4/08	A section has been added to the report to address the wall alternatives indicated in the comment.	RK&K	12/29/08
72	For Retaining Wall 10, since the estimated differential settlement is two times more than the allowable ratio for differential settlement, would it make sense to explore options such as post and plank walls or sheet pile walls?	AWF	12/4/08	The design of this wall has been significantly revised since the PFR. This section of the report has been updated.	RK&K	12/29/08
App-A	There are no Soil Profile Sheets or Summary of Boring Data for Retaining walls 1, 2 and 3.	AWF	12/4/08	Will Comply.	URS	12/30/08
App-A	Provide Soil Profile, depicting different soil stratus, for all Retaining Walls.	AWF	12/4/08	Will Comply.	RK&K	12/29/08
TS&L PLANS	TS&L Submission Plan Sheets No. 77 and 78 - Retaining Wall Elevation View object lines are missing.	AWF	12/4/08	Will Comply.	RK&K	12/29/08

Abbreviations:



SR1/I-95 Interchange

Preliminary Foundation Report - Retaining Walls

CONTRACT NO. 28-090-03

REVIEWER: Justice Maswoswe

REVIEW COMMENTS

Sheet No.	Comment	Made By	Date	Action	By	Date
General	Since the format, information and recommendations in this report are very similar to the Bridge and Wing Walls Report, most of the comments for that report also apply to this report. Essentially this report also lacks references to figures and supporting calculations; and a basis/source for key recommendations and/or assumptions. Therefore, please review the other comments and address those that also apply to this report. The comments that follow have not been raised for the other report:	JM	12/5/08	We have incorporated the comments provided by both Pennoni and FHWA for their review of the PFR - Bridges and Wingwalls. A copy of our response to comments for the Bridge and Wingwalls is provided in Appenix X of the FFR - Retaining Walls	RK&K	12/29/08
Section 5.1.1	There is no mention of the type of foundation that would be appropriate for the CIP wall.	JM	12/5/08	Will Comply	RK&K	12/29/09
Section 5.1.2	4 th paragraph: Clarify which structure's costs would increase due to the use of a pile foundation. As currently written, it seems to suggest that the MSE wall would be on piles.	JM	12/5/08	Will Comply	RK&K	12/29/09
Section 5.1.3	2 nd sentence: Clarify that you are comparing costs with a CIP wall on spread footings and an MSE wall.	JM	12/5/08	Will Comply	RK&K	12/29/09
Section 5.4.5	last paragraph: In that case, provide the appropriate design parameters for excavations in the Potomac Formation.	JM	12/5/08	Will Comply	RK&K	12/29/09
Appendix E	URS calculations were not provided.	JM	12/5/08	Design calculations will be included in the FFR - Retaining Walls.	URS	1/5/09

Abbreviations:	
MSE	Mechanically Stabilized Earth
CIP	Cast In Place
PFR	Preliminary Foundation Report
FFR	Final Foundation Report