RFI/FIELD DESIGN CHANGE/DESIGN DIRECTIVE

RFI Number (from Walsh): 00025 **Date:** 4/28/2011

Part I: Identify Request

Requested by: Joel Halterman Phone: (216) 452-5907

Drawing Package Title: Unit 2 Foundations

RFC Date of Drawings:

Stationing: (show nearest 500')

Description of Change: Reference the attached High Strain Dynamic Load Testing Report, Pile Driving Logs, and Dynamic Testing Results performed on the foundation piles at Pier 9 of the main viaduct.

In summary of the test report, GRL suggests that "the Pier 9 piles be driven to at least 2 consecutive inches of 20 blows/inch with a corresponding minimum average hammer stroke of 11.5 feet with the D80-23 diesel hammer."

Please provide concurrence that this driving criterion meets the design requirement of piles driven to refusal on bedrock and is acceptable to use for all Unit 2 foundations.

Requested Change: For pier 5 through 10 of Unit 2, drive piling to refusal on bedrock for 2 consecutive inches of 20 blows per inch with an average stroke of 11.5 feet.

Attachments Sent to Design:

No ☐

Yes ☒ List: Dynamic_Test_Report_-_ODOT_3000(10)_Pier_9_Dynamic_Testing.pdf

Dynamic_Test_Summary_-_I-90_Central_Viaduct_Unit_2_Pier_9.pdf

Pier_9_Test_Pile_Drive_Logs.pdf

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Part II: Response

Response: We have reviewed the provided attachments including the GRL dynamic test report dated April 25, 2011. We concur with the recommended driving criteria provided in the GRL dynamic test report of "at least 2 consecutive inches of 20 blows/inch with a corresponding minimum average hammer stroke of 11.5 ft with the D80-23 diesel hammer"(page 8 of attached report) and its applicability for Unit 2 piers 5 through 10.

Revised Plans needed before this change can be Implemented:
- No ☒
- Yes ☐ List:

Plans to be as-built:
- No ☒
- Yes ☐ List:

Responded by: Gerard J. Buechel Date: 5-25-2011

Checked by: William J. Perkins

Attachments for Response:
- No ☐
- Yes ☒ List: High Strain Dynamic Load Testing Report by GRL Engineers, Inc., dated April 25, 2011 (PDF file "Dynamic_Test_Report_-_ODOT_3000(10)_Pier_9_Dynamic_Testing.pdf")

HNTB Job String:
- DS 001 ☐
- DS 004 ☒

STATE OF OHIO
GERARD J. BUECHEL
72022
REGISTERED
PROFESSIONAL ENGINEER

5/25/2011