

Department of Public Works

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**East Atlantic Avenue (C.R. 729)
over Nicholson Road (C.R. 635)
Bridge Replacement Project**

*Borough of Audubon
County of Camden, New Jersey
Weekly Progress Report
Monday 04/09/2018 thru Friday 04/13/2018*



Figure 1

*RE Pierson compacting I-9 Soil Aggregate adjacent to South face of South Abutment using
Wacker Neusen remote controlled roller*

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Figure 2

T-wall Sections Delivered to the site

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Figure 3

Craig Testing performing compaction testing on I-14 Soil Aggregate North of North Abutment



The following Construction Activities took place during the period stated above.

Backwall Construction

On Monday, April 9, 2018 RE Pierson installed bracing at at the North and South Abutment Backwalls. RE Pierson placed 7 CY of Concrete, Class B with Visocrete 1000 Super P to complete the North and South Abutment Backwalls. Craig Testing was on site performing concrete testing on the first load of concrete. In total, 9 cylinders were taken. Testing results are as follows:

- First Load - Air Entrainment = 7.0%; Slump = 7.0"; Temperature = 64° F

RE Pierson finished the top surface with hand trowels and covered the top of concrete and formwork with polyethylene sheeting and thermal blankets.

Abutment Construction

On Tuesday, April 10, 2018, RE Pierson started placing I-14 Soil Aggregate in 12" lifts behind the South Abutment. Additionally, I-9 Soil Aggregate was placed in 12" lifts adjacent to the South face of the South Abutment. Each lift of I-14 and I-9 was compacted with Wacker Neusen remote controlled roller. Craig Testing took three samples of the I-9 Soil Aggregate to the lab for testing.

On Wednesday, April 11, 2018, RE Pierson continued placing I-14 Soil Aggregate in 12" lifts in excavated area behind the South Abutment. Additionally, I-9 Soil Aggregate was placed in 12" lifts adjacent to the South face of the South Abutment. Each lift of I-14 and I-9 was compacted with jumping jack tamper or Wacker Neusen remote controlled roller to achieve desired compaction. Craig Testing performed nuclear gauge testing on Soil aggregate installed at South Abutment Wall and results are as follows:

- I-9: 98.8%
- I-14: 100% and 99.7%

Installation of I-9 and I-14 Soil Aggregate continued on Thursday, April 11, 2018. RE Pierson placed I-9 Soil Aggregate was placed in 12" lifts adjacent to the South face of the South Abutment. I-14 Soil Aggregate was placed in in 12" lifts in excavated area behind the North Abutment. Each lift of I-14 and I-9 was compacted with Wacker Neusen remote controlled roller to achieve desired compaction. Craig Testing performed nuclear gauge testing on Soil aggregate installed at North Abutment (I-14) and South Abutment (I-9) results are as follows:

- I-9: 102%
- I-14: 98%, 95.2%, 95.7%, and 95.7%

T-Walls

T-Walls were delivered on site on Wednesday, April 11, 2018 and Thursday, April 12, 2018. On Friday, April 13, 2018, RE Pierson installed T-wall section with 12-foot long stem adjacent to southeast wingwall, backfilled with I-9 material, and compacted with a plate tamper. Additionally,

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RE Pierson installed T-wall section with 10-foot long stem above previously installed T-wall section. Concrete interlocking blocks wrapped in Styrofoam padding were used between T-wall sections.

Anticipated Work for 4/16/18 thru 4/20/18

Work on the North Abutment and South Abutment includes backfilling the abutments, installation of the T-Walls, and removing the temporary sheeting.

Notice to Proceed: 09/28/17

Anticipated Completion Date: 11/20/18

Prepared By: Alfred Brenner, Resident Engineer