



JOHN H. ALLGAIR, PE, PP, LS (1983-2001)
DAVID J. SAMUEL, PE, PP, CME
JOHN J. STEFANI, PE, LS, PP, CME
JAY B. CORNELL, PE, PP, CME
MICHAEL J. McCLELLAND, PE, PP, CME
GREGORY R. VALES, PE, PP, CME

TIM W. GILLEN, PE, PP, CME (1991-2019)
BRUCE M. KOCH, PE, PP, CME
LOUIS J. PLOSKONKA, PE, CME
TREVOR J. TAYLOR, PE, PP, CME
BEHRAM TURAN, PE, LSRP
LAURA J. NEUMANN, PE, PP
DOUGLAS ROHMEYER, PE, CFM, CME
ROBERT J. RUSSO, PE, PP, CME
JOHN J. HESS, PE, PP, CME

April 8, 2022

Via Electronic (Joseph.Ettore@co.monmouth.nj.us) & 1st Class Mail

Joseph M. Ettore, PE, PP
County Engineer
Monmouth County
Halls of Record Annex, Third Floor
One Main Street
Freehold, NJ 07728

**Re: Henry Hudson Trail Drainage
Borough of Keyport
Monmouth County, New Jersey**

Dear Mr. Ettore:

On behalf of the Borough of Keyport and in response to ongoing flooding conditions along Third Street, the Borough is reviewing several items to mitigate the flooding events. Our office has investigated the drainage pipe that collects runoff from the Henry Hudson Trail and flows under the trail to Fifth Street adjacent to Manchester Avenue. This pipe collects runoff from the trail side ditches as well as a large upstream drainage area south of the trail. At Fifth Street, the pipe continues through the Haven off the Bay parking lot drainage system and to the existing drainage system on Third Street and ultimately discharges to the outfall at the end of East Third Street, on the south side of the trail. This condition results in the flow collected on the south side of the trail being piped to the north side of the trail, only to cross back under the trail further downstream to be discharged to the Chingarora Creek on the south side of the trail.

Further, we have cleaned and televised the pipe network on Third Street and have observed the inlet and manhole structures clogged with debris including leaves, branches and floatables. The 24"-30" (the existing pipe varies in size) pipe that crosses under the trail at Fifth Street does not include trash racks and debris from the trail ditches can enter these pipes and cause blockages downstream.

With this being said, the Borough is herein requesting the following:

1. The installation of trash racks on the two upstream open ends of the 24"-30" pipe that collects runoff from the Henry Hudson Trail adjacent to Manchester Avenue and Fifth Street. Photos of this pipe is enclosed for your review.
2. In order to reduce the amount of runoff that enters the Third Street storm sewer system, it is requested that the County reviews the feasibility of installing a new collection system along the south side of the Trail to collect the runoff that enters the 24"-30" pipe and direct

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CONSULTING AND MUNICIPAL ENGINEERS

1460 ROUTE 9 SOUTH • HOWELL, NEW JERSEY 07731 • (732) 462-7400 • FAX: (732) 409-0756



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this runoff to either a ditch or pipe on the south side of the trail to the existing outfall located at East Third Street. At Fulton Street, the existing undersized storm pipe and the trail side ditch will need to be cleaned and/or upgraded to handle the increased flow. Maintaining the runoff on the south side of the trail will reduce the amount of flow that is contributory to Third Street while maintaining the location of the ultimate outfall. Attached is a concept sketch of this plan.

Please review and should you have any questions or require additional information, please do not hesitate to contact our office.

Very Truly Yours
CME Associates

Trevor J. Taylor, PE, PP, CME
Office of the Borough Engineer

TT

cc: Raymond W. Bragg, PE, PP, CME, Assistant County Engineer
Andrew J. Spears, Monmouth County Parks Department
Jay Delaney, Keyport Borough Administrator
Michele Clark, Borough Clerk



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LOCATION OF PROPOSED TRAIL SIDE RELIEF SYSTEM ALONG HH TRAIL



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EXISTING PIPE UNDER HH TRAIL