

# *Glassboro Public Schools*



## **MEMO**

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To: Mark Silverstein

From: Michael Sloan

Date: January 30, 2024

Re: Recommendation – Glassboro HS Stormwater Basin

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Recommend Board approval of the Camden/Gloucester County Soil Conservation District to have staff evaluate the stormwater basin located at Glassboro High School to determine the feasibility of a retrofit plan, as described in the attachment.

**Proposal for the Glassboro Board of Education**

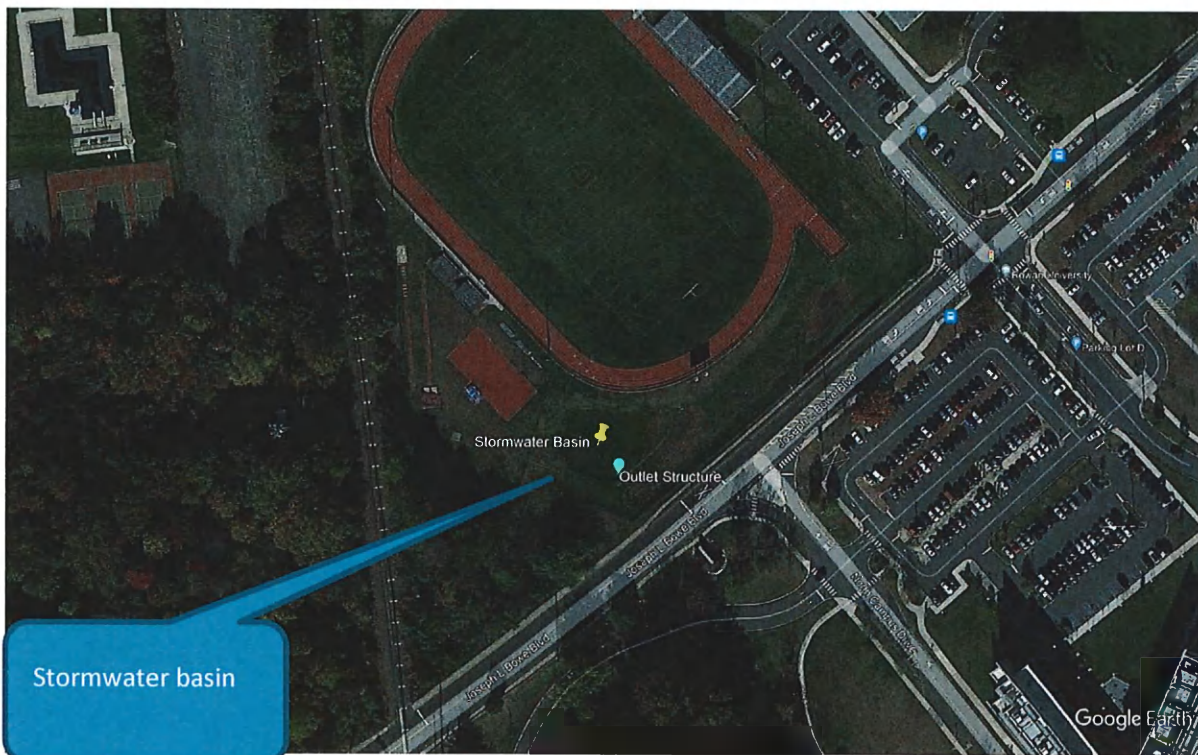
**Glassboro High School**

**Stormwater Basin Retrofit Concept Plan**

**Owner:**

**Glassboro Board of Education**  
**560 Joseph L Bove Blvd**  
**Glassboro NJ 08028**

**Location Map**



- **Existing Conditions:**  
A well maintained stormwater detention basin with concretete low-flow channel.
- **Drainage Area:** Unkown
- **Basin Description:** A stormwater detention basin constructed between 2002 and 2004, likely as part of track and field improvements at the Glassboro High School. Based on requirements at

the time of constructon, this basin likely met NJDEP water quaility standards by utilizing a small, at-grade orifice in the outlet structure. A concrete low-flow channel directs all runoff to the outlet. The basin appears to be regularly mown.

- **Discharge Point:** The basin discharges directly directly to the Chestnut Branch, Manuta Creek Watershed

### **Basin Retrofit Plan CONCEPT ONLY**

Retrofit the stomwater basin to create a native meadow on the basin bottom only. The basin embankments and top will remain as is. Disrupt the flow path through the low-flow channel to ensure stormwater must flow over and through the native meadow.

**Site Preperation:** Mow the proposed seeding area as short as possible

**Description of Retrofit:** Use a no-till seed drill to plant basin floor with a native meadow seed mix. If faculty and students are interested in participating, a variety of native landscape plugs will supplement the seeding.

The area immediately around the outlet structure and the basin inflows will not be planted to allow for maintenance.

#### **Seed Mixes:**

*To Be Determined, but will only be native herbaceous species and grasses – no woody species will be selected..*

#### **Maintenance:**

**Year 1:** no special maintenance is required.

**Long Term Maintenance:** Mow the basin floor at about 6 inches annually or biennially in early spring, using a mulchng or flail mower to chop the vegetation as fine as possible. If excess vegetative waste develops remove as necessary to avoid clogging outlet structure. Continue to mow basin embankments as normal. Inspect the basin regularly to ensure the outlet remains clear and the stormwwater basin continues to drain. Check for and remove invasive species and woody vegetation.

#### **Benefits:**

Converting the basin to native vegetation enhances pollutant removal from stormwater and promotes infiltration. A native meadow will be biologically diverse, providing habitat for pollinators and wildlife. The native meadow will require less frequently maintenance, reducing mowing and landscaping cost and will be aesthetically pleasing.

Plan prepared on behalf of South Jersey RC&D Council

January 29, 2024

**Next Steps:**

In order to move forward with the project, staff from the Camden/ Gloucester Soil Conservation Districts, along with students from Rowan University will need to inspect the basin. We will gather information regarding the size the basin, size and configuration of the basin inlet and outlet, collect soil information using a hand-held auger and evaluate the condition of the basin discharge point.

Ideally we'd like to meet with Glassboro HS facilities staff (and/or whoever maintains the basin) to ask about any known issues. Of concern are any incidents of over topping, saturated soil within the basin or excessive sediment collected in the low flow channel.

If all issues check out, a draft retrofit plan with schedule for completing the work will be submitted for final approval. The project will not alter the storage capacity of the basin and will not require an engineering design. However, we would be happy to discuss with the BOE engineer or other professionals.

Work is to be done by South Jersey RC&D contractors.. There is no cost to the BOE. Depending on the final design and on the availability of High School Facilities staff and any equipment on site (for example a front end loader on a tractor) we may request help from the facilities staff.

**NOTES:**

When working with other schools, we have always offered to provide an in-person education program. This can be as brief or detailed as desired. As part of this project Rowan University is already working with Science faculty at the High School.