RYE NECK

UNION FREE SCHOOL DISTRICT

2026 BOND REFERENDUM

New Athletic Facility

Live Stream

May 20, 2026

LAN ASSOCIATES

The LA GROUP
Landscape Architecture & Engineering P.C.
People. Purpose. Place.

Athletic Field Lighting

Benefits of Athletic Field Lighting

Scheduling Flexibility

- **Extend the usability** of fields beyond daylight hours creating additional practice slots for modified, JV, and varsity sports.
- **Provide flexibility** during shorter daylight months in the fall and early spring.
- Can help **avoid heat index** situations by playing in the evening when the temperatures are cooler.

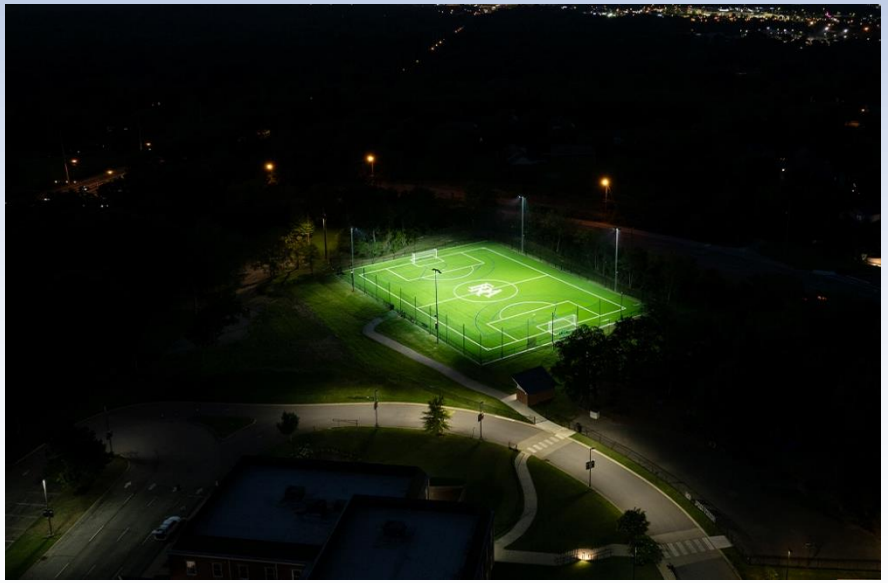
Increased Student and Community Engagement

- **Support beyond athletics** including; marching band, cheer, drama, and other extracurricular activities and events.
- Provide **increased opportunities** for youth and recreational programs due to greater availability of scheduling.
- Provide opportunities to hold **"Friday Night Lights"** competitions enhancing community engagement.
- RNUFSD could **generate supplemental revenue** through permitted outside use.

Athletic Field Lighting

How does modern lighting compare to older systems?

- Today's exterior athletic field lighting systems are significantly more advanced than older generations of sports lighting and are specifically engineered to **direct light only where it is needed**.
- Modern LED athletic field lighting technology allows schools to provide safe, effective illumination for athletic activities while substantially **reducing light spill, glare, and skyglow**.
- Modern LED athletic field lighting systems are also commonly designed to align with the principles established by **DarkSky International** and similar responsible-lighting standards.
  - Minimizing upward-directed light
  - Reducing glare
  - Limiting light trespass
  - Avoiding over-lighting
  - Utilizing warmer color temperatures
  - Incorporating lighting controls such as dimming and scheduling systems



Athletic Field Lighting

How will field lights impact the neighboring residents?

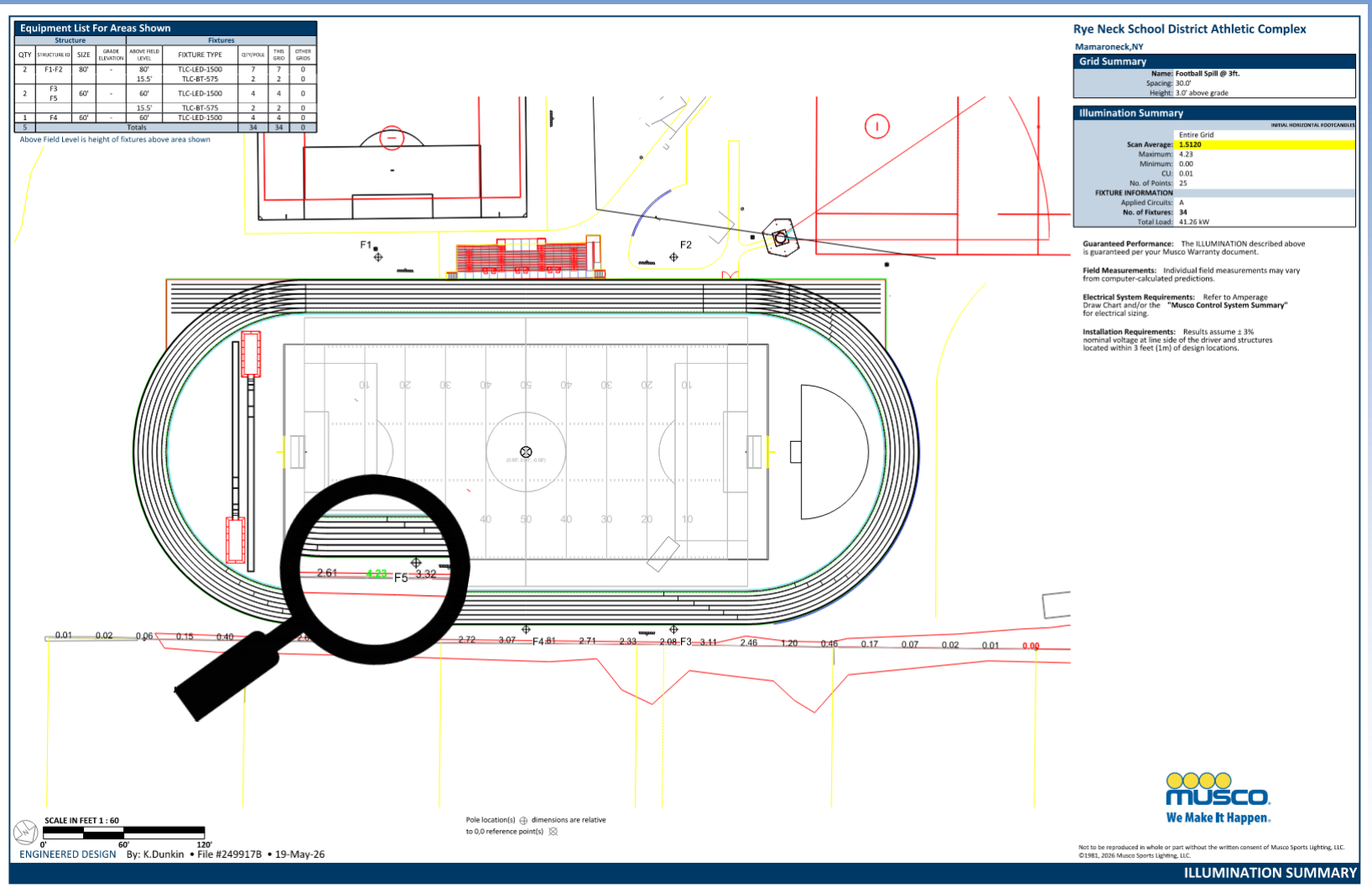
Original Schematic Site Rendering

Photometric Light Study:

- A lighting study is used to verify that lighting distribution across the field is uniform and minimizes dark spots, glare, and visibility issues for athletes, officials, and spectators.
- A lighting study also evaluates light spill and light trespass onto adjacent properties to help minimize impacts on neighboring homes and surrounding areas.

Athletic Field Lighting

Field Photometric Lighting Study – Original Design



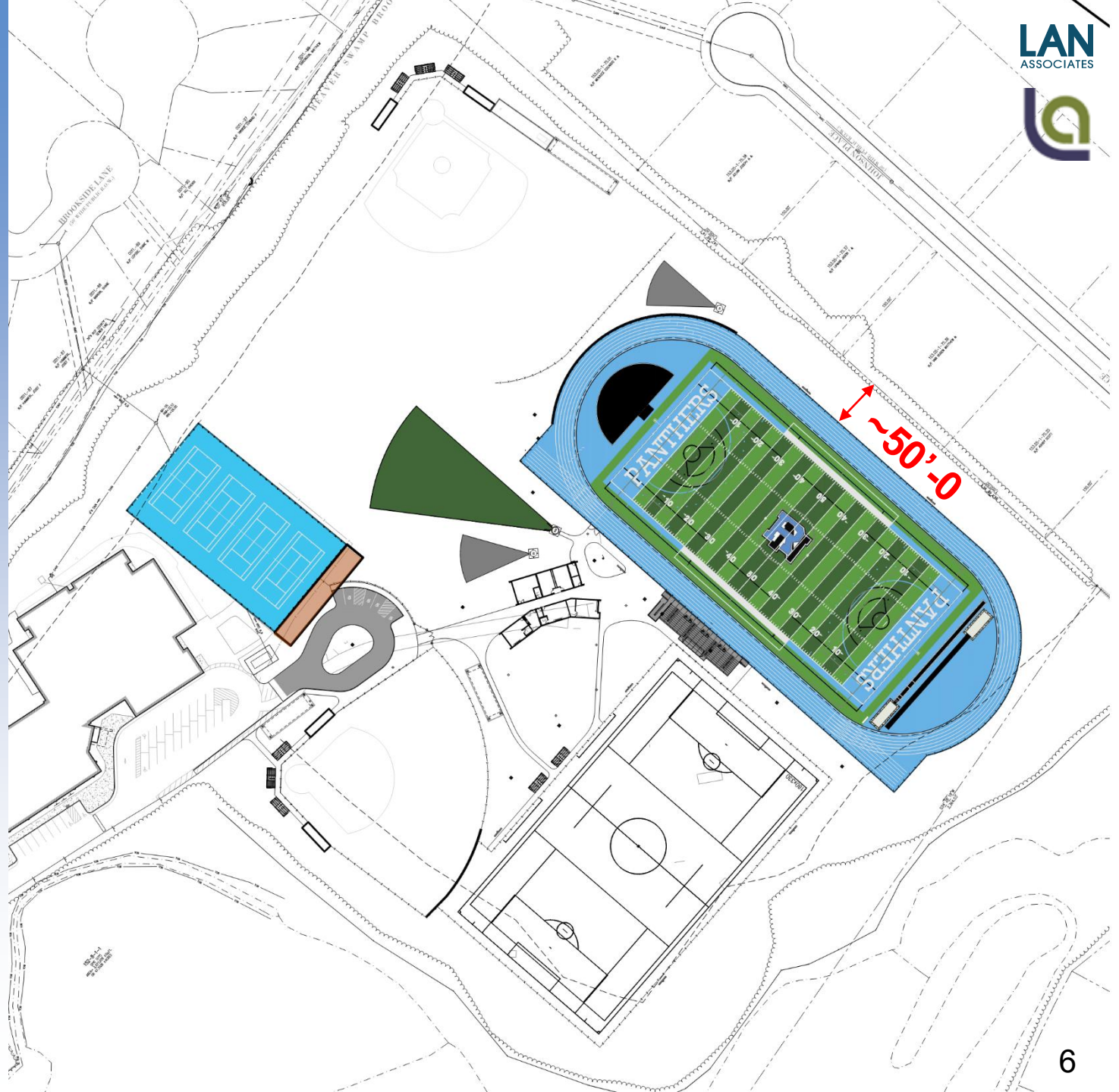
Preliminary Results:

- The original field design located the edge of the track ~10’ from the abutting neighbors property line.
- This resulted in a **Max Horizontal Spill of 4.34 footcandles** at the property line.
- The design goal for the Max Horizontal Spill at the property line is **0 footcandles**.
- The design professionals and the RNUFSD were not satisfied with the results, prompting a design change.

Field Lighting

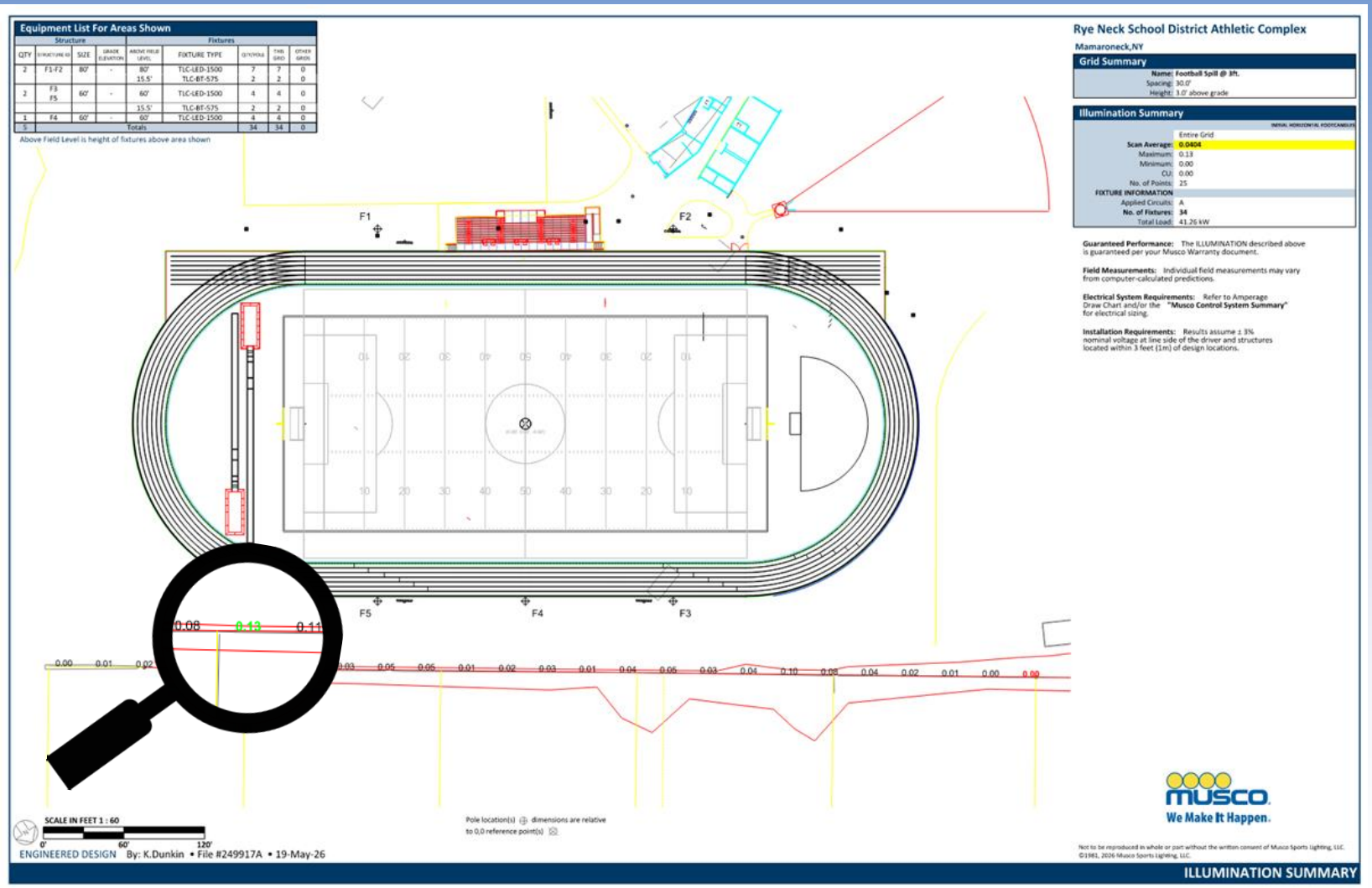
Revised Schematic Design

- The overall field layouts was redesigned to allow the track/football field to be shifted away from the property line.
- The revised design moved the track/field **+/50’-0” from the neighboring property line**.



Athletic Field Lighting

Field Photometric Lighting Study – Revised Design



Preliminary Results:

- Revised site plan resulted in a **Max Horizontal Spill of 0.13 footcandles** at the property line.
- These results do not account for any existing tree buffering, which will further reduce spill and glare in the revised design.
- Horizontal Spill is approximately **33x lower** than the original design.
- The 50 ft setback provides a significant improvement in minimizing impact to the neighboring properties, while maintaining comparable on-field performance.

Evening Events

How will RNUFSD manage evening events?

- **Hours of use** for the fields on weekdays and weekends will be established with the neighbors in mind.
- The District will limit the number of night games and special events scheduled throughout the year to **balance facility use with neighborhood considerations**.
- Sound systems, announcements, and amplified music will be monitored and limited in accordance with local **noise ordinance** and school district policies.
- **Advanced lighting controls** will allow for dimming or partial-field operation when full illumination is not required for practices or smaller events.
- For night events, security staff will be present for **crowd management** to help ensure orderly arrival and departure from the site and encourage teams and spectators to promptly vacate the site following events to minimize prolonged onsite evening activity.

Site Drainage

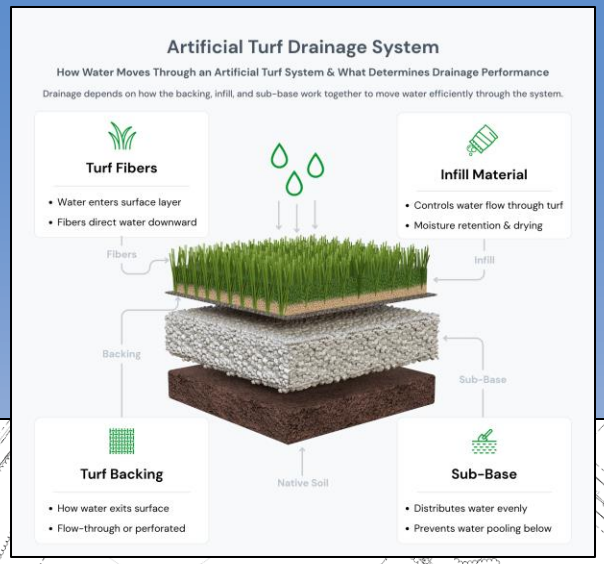
*How will stormwater be managed **during** construction?*

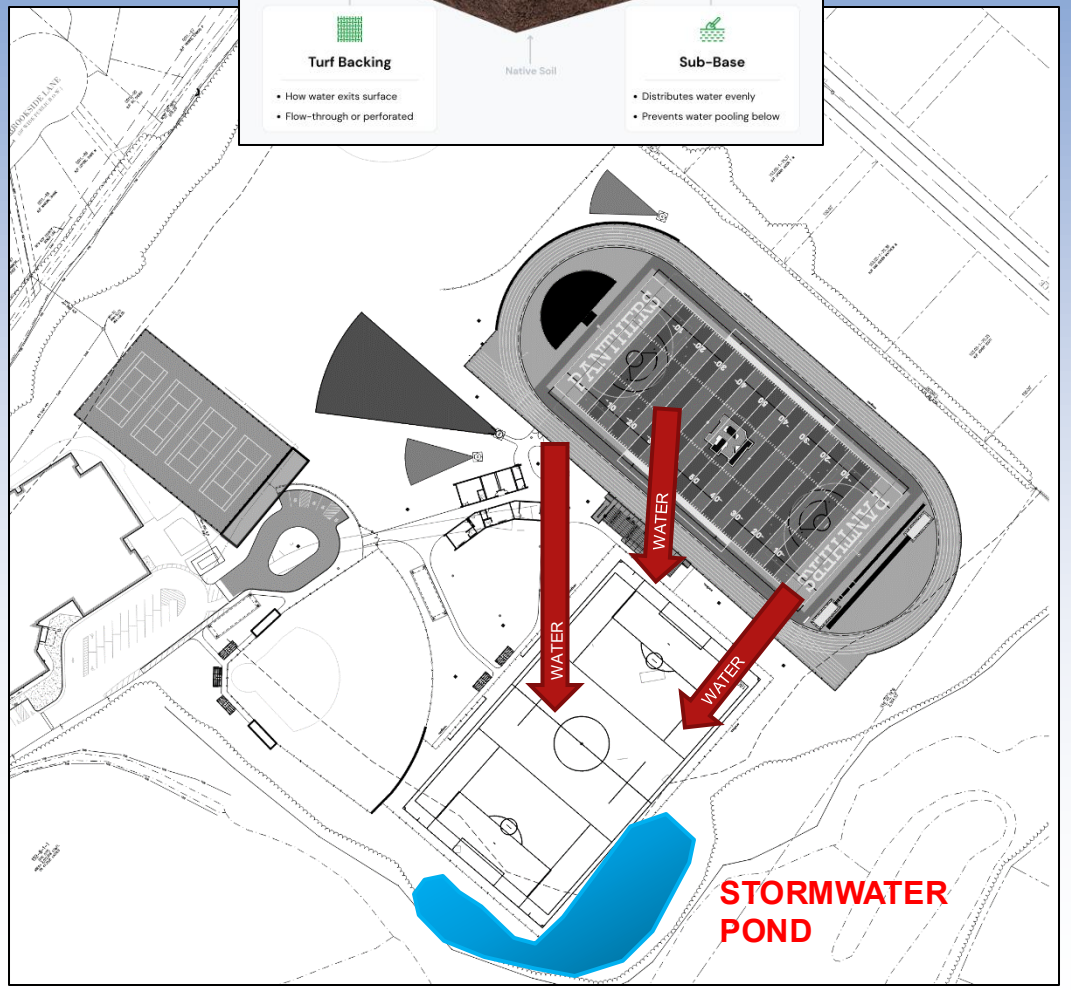
- A **Stormwater Pollution Prevention Plan (SWPPP)** will be prepared in accordance with applicable New York State Department of Environmental Conservation (NYSDEC) requirements and the NYS General Permit for Stormwater Discharges from Construction Activity.
- Temporary erosion and sediment control measures will be implemented prior to the start of construction activities and **maintained throughout construction**.
- Perimeter controls such as silt fencing, stabilized construction entrances, inlet protection, and sediment traps will be installed to **prevent sediment from leaving the site**.
- Stockpiled materials and construction equipment will be managed in accordance with SWPPP requirements to **prevent pollutant discharge**.
- **Weekly SWPPP inspections** will be conducted throughout construction.

Site Drainage

*How will stormwater be managed **after** construction?*

- The synthetic turf field system will be designed with an engineered stone drainage base to **promote rapid infiltration and controlled conveyance of stormwater**.
- Subsurface drainage piping beneath the field will collect and **direct stormwater runoff to the stormwater pond**.
- Stormwater quantity controls will be incorporated to manage post-construction runoff rates and **reduce impacts to downstream drainage systems**.
- Stormwater quality treatment practices will be incorporated to **remove sediment and pollutants** prior to discharge from the site.
- Disturbed areas outside of the synthetic turf limits as well as the natural grass fields will be stabilized with topsoil and seed, immediately following construction activities.





RYE NECK HS/MS ATHLETIC FIELD UPGRADES

INVEST IN OUR STUDENTS
INVEST IN OUR COMMUNITY

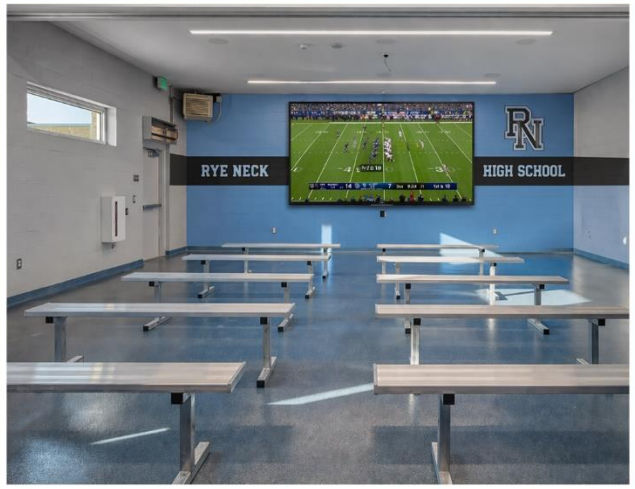
LAN ASSOCIATES

The LA GROUP
Landscape Architecture & Engineering P.C.
People. Purpose. Place.

FIELDHOUSE CONCESSION STAND

GRANDSTANDS AND PRESS BOX

PUBLIC RESTROOM



TEAMROOM

CONCESSION STAND

ALL IMAGES ARE CONCEPTUAL AND ARE SUBJECT TO CHANGE THROUGHOUT THE DESIGN PROCESS.

RYE NECK HS/MS ATHLETIC FIELD UPGRADES

LAN ASSOCIATES

The LA GROUP
Landscape Architecture & Engineering P.C.
People. Purpose. Place.

Questions

LAN ASSOCIATES