

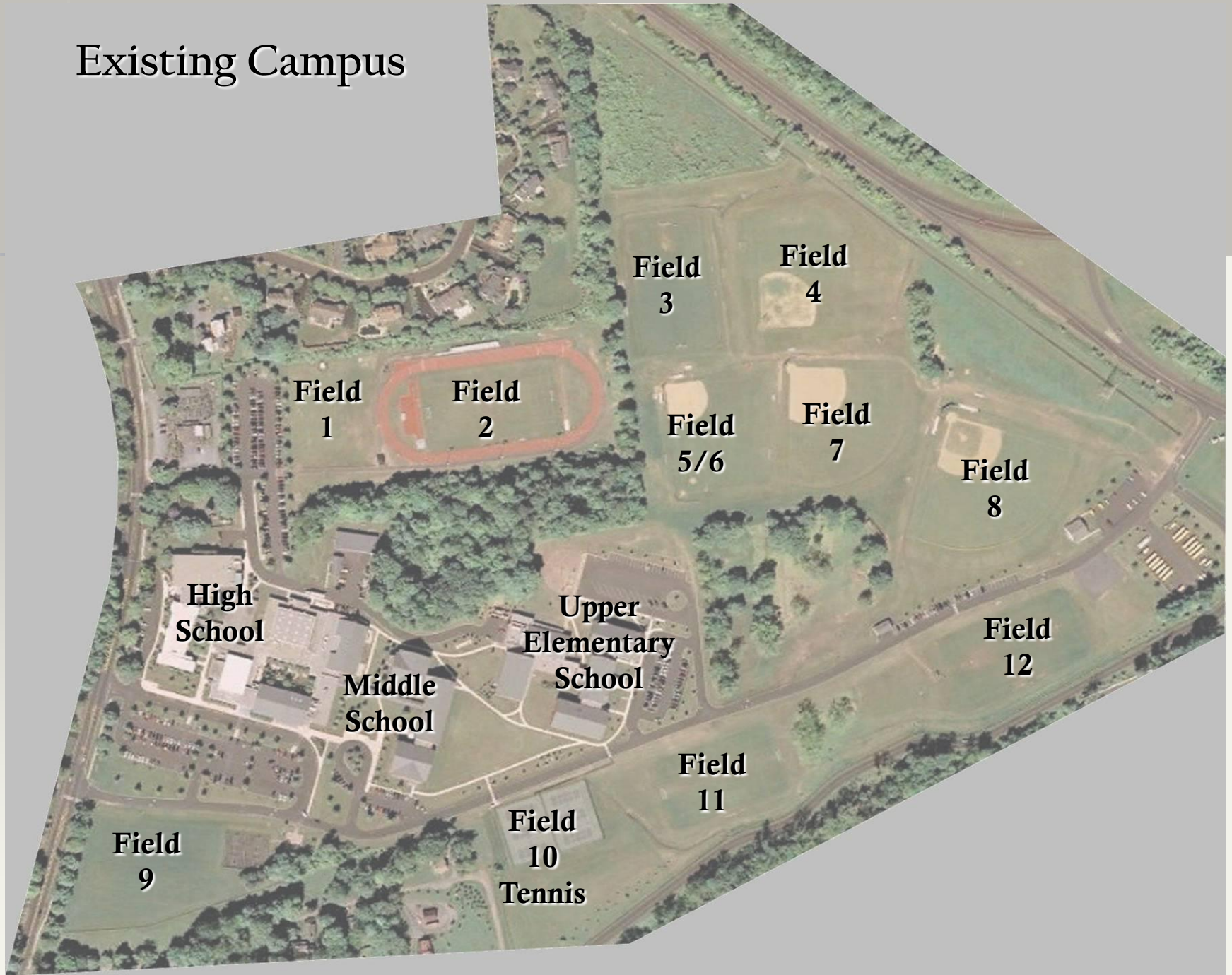
Discussion on Athletic Facilities Study & Campus Master Plan



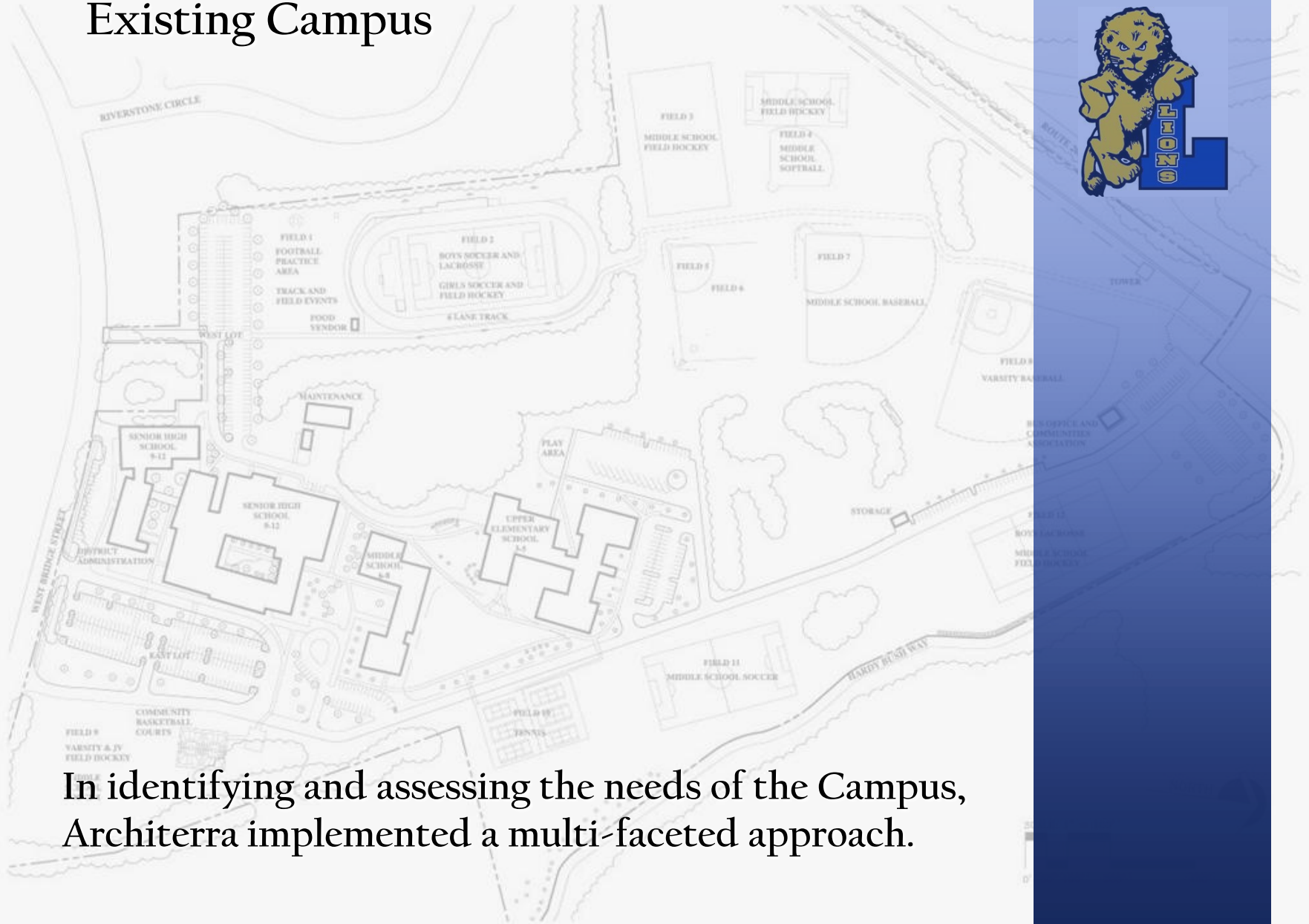
**NEW HOPE - SOLEBURY
SCHOOL DISTRICT**

Winter 2010

Existing Campus



Existing Campus



In identifying and assessing the needs of the Campus, Architerra implemented a multi-faceted approach.

Existing Campus

SITE ANALYSIS

KEY PERSON INTERVIEWS

School Board Members

School Administration

Faculty

Athletic Coaches

Facilities Committee

Borough of New Hope

Township of Solebury

Students

Neighbors

Student Activity Committee

ELECTRONIC QUESTIONNAIRE

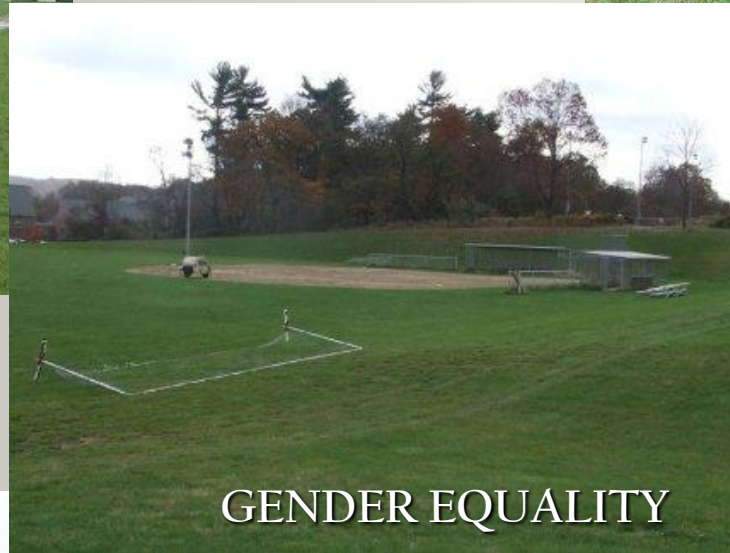
SOIL TESTING

REVIEW OF LOCAL MUNICIPAL REGULATIONS

REVIEW OF MAINTENANCE PRACTICES



Our Physical Analysis of the Campus Disclosed the Following Issues:



SUPPORT AMENITIES

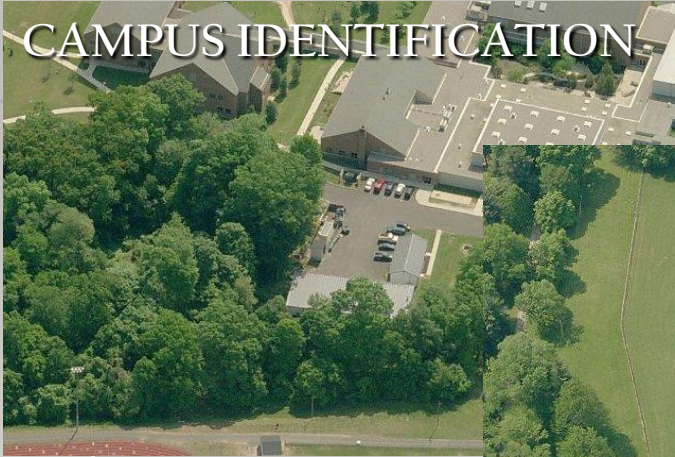


Discussions With the School Community

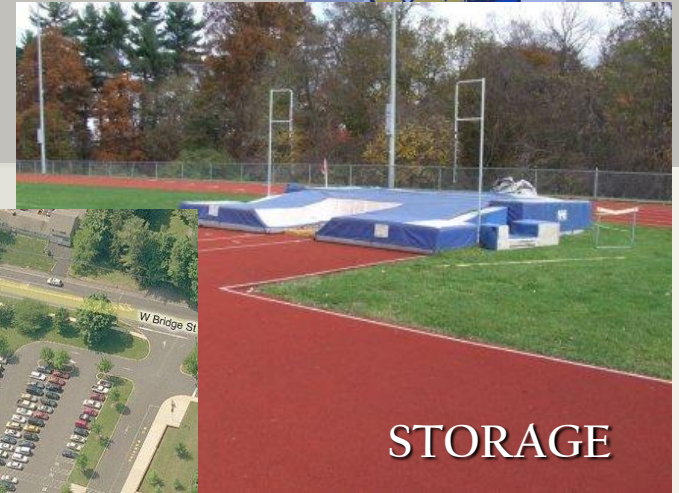
Unveiled Additional Concerns:



CAMPUS IDENTIFICATION



STORAGE



CIRCULATION



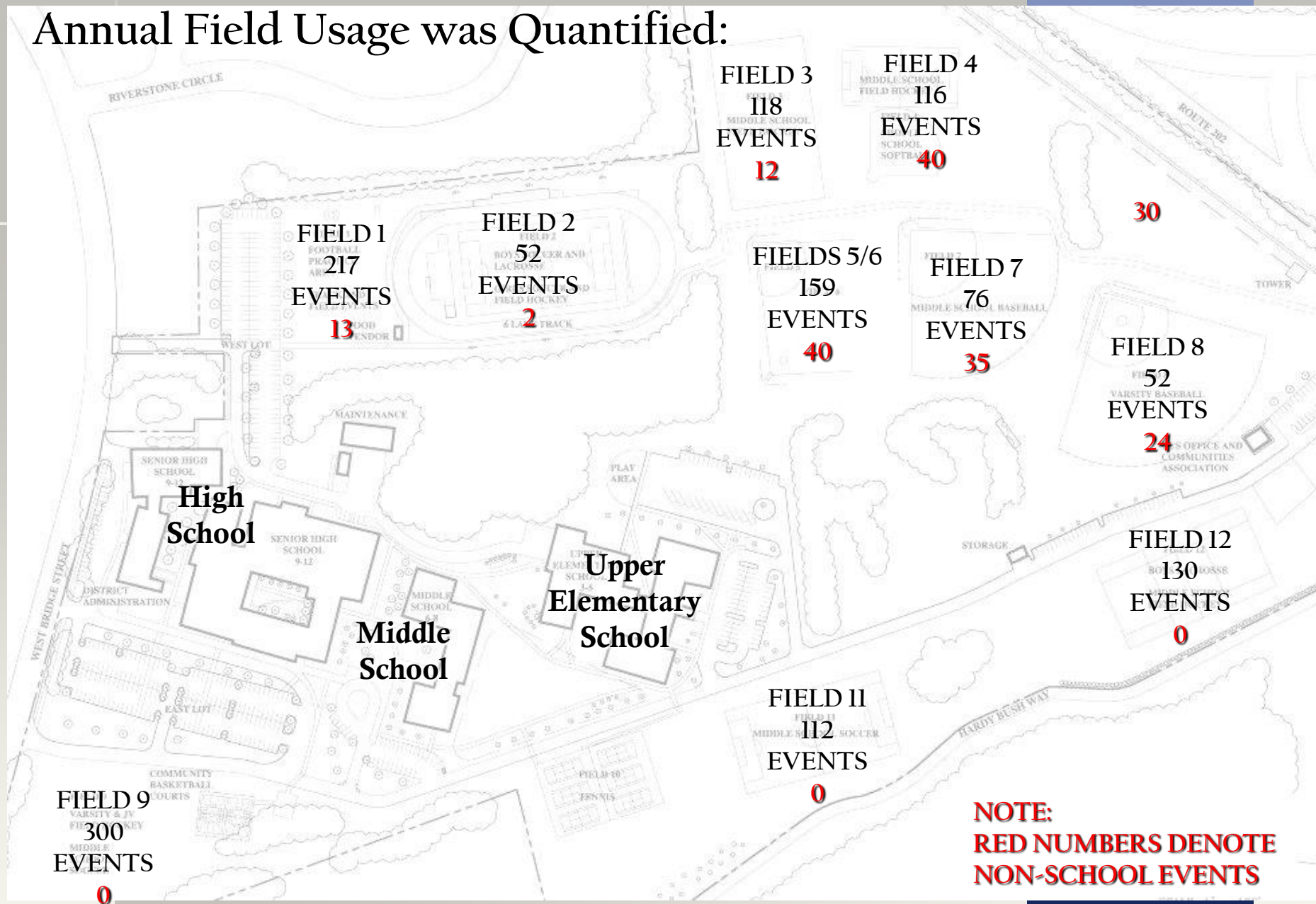
NEIGHBORHOOD INTERFACE



SAFETY



Annual Field Usage was Quantified:



Field Overuse



The average natural grass field can experience 55 events per year before significant deterioration of the athletic surface occurs.

Not counting the softball and baseball infields on the athletic campus, the remaining ten athletic fields experience a total of approximately 1,215 events a year.

This results in a campus average of 122 events per field, more than double the number of events regarded as the maximum number allowed for maintaining the natural turf.

Based on the field usage experienced on the non-softball or baseball infields, the New Hope-Solebury School District campus is approximately 12 fields deficient in being able to adequately accommodate the use experienced on the fields today.

Summary of Needs



Improve safety on campus

More fields

More athletic support facilities

Gender equality in facilities

Accommodation of football on campus

Additional gymnasium

Storage space for extra curricular activities and maintenance

A strategy or plan for moving forward



Potential Immediate Solutions

Safety and Security



More outdoor lighting on campus:
vehicular and pedestrian ways

Potential Immediate Solutions

Safety and Security

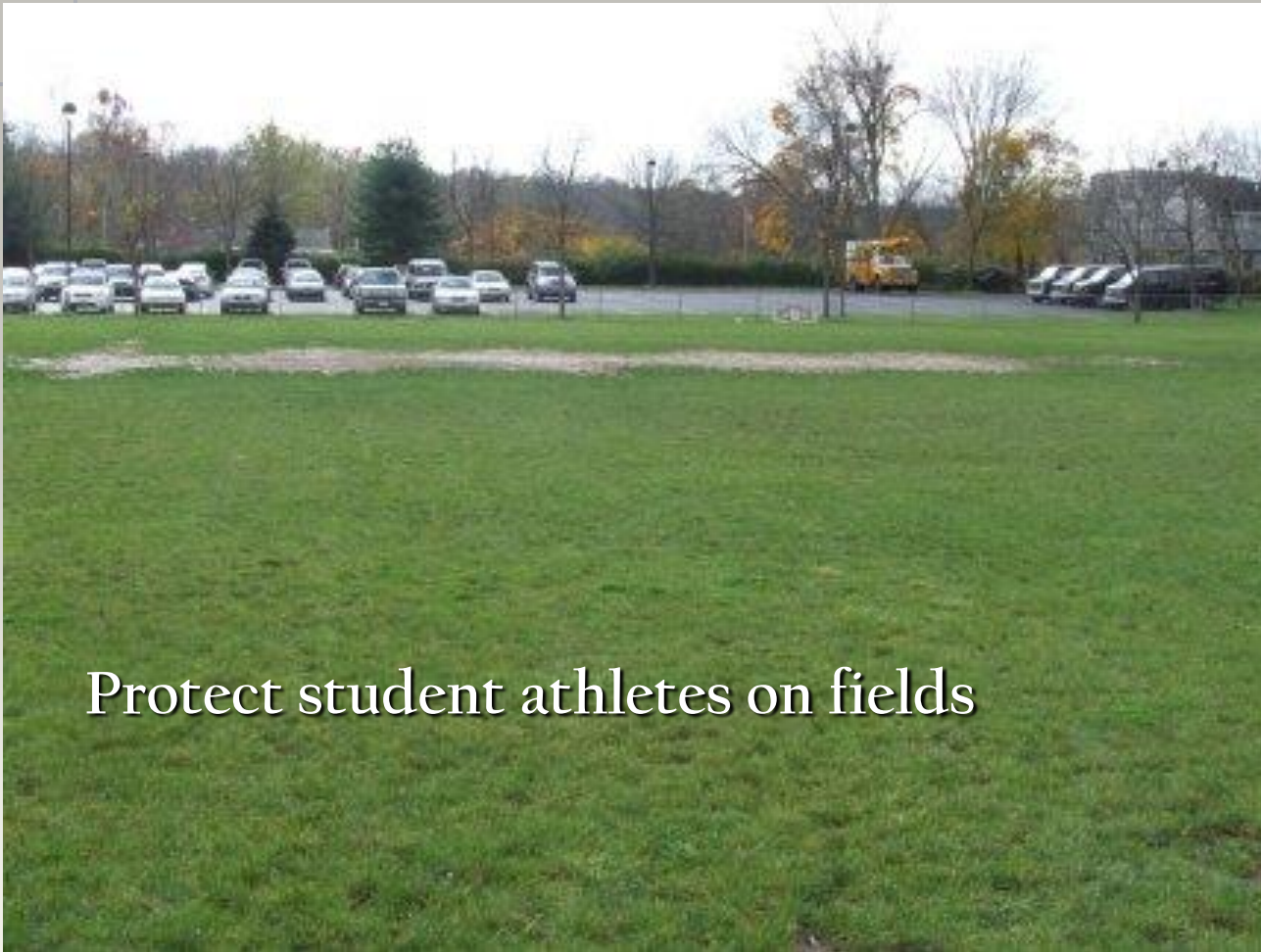


Enhance pedestrian access to fields

stormwater management

Potential Immediate Solutions

Safety and Security



Protect student athletes on fields

enhanced maintenance

Potential Immediate Solutions

Safety and Security



Protect public adjacent to fields

ball control

Potential Immediate Solutions

Safety and Security



Community usage

new tennis surface

Potential Immediate Solutions

Safety and Security

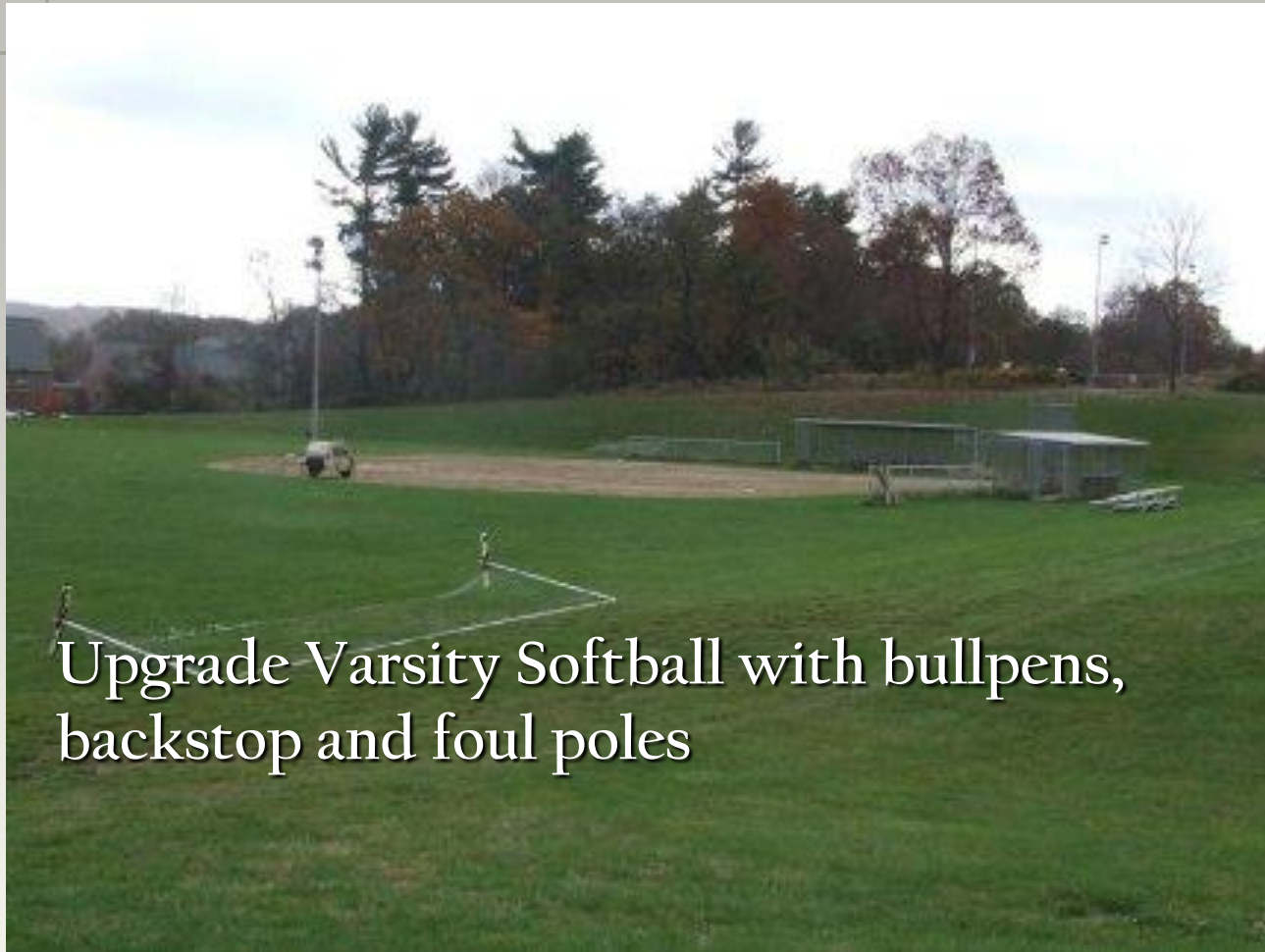


Upgrade field quality

multiple sports/multiple users

Potential Immediate Solutions

Gender Equality



Potential Immediate Solutions

Gender Equality



Upgrade Field Hockey with extension of water service, new scoreboard, and additional spectator seating

Potential Immediate Solutions

Accommodation of Football on Campus



Field 12 offers insufficient space for athletic field and event support facilities

Potential Immediate Solutions

Accommodation of Football on Campus



Field 2 presents a cost effective, short-term solution with north end modifications, goal posts, and existing support facilities



Potential Long Term Solutions

More athletic support facilities

More athletic fields

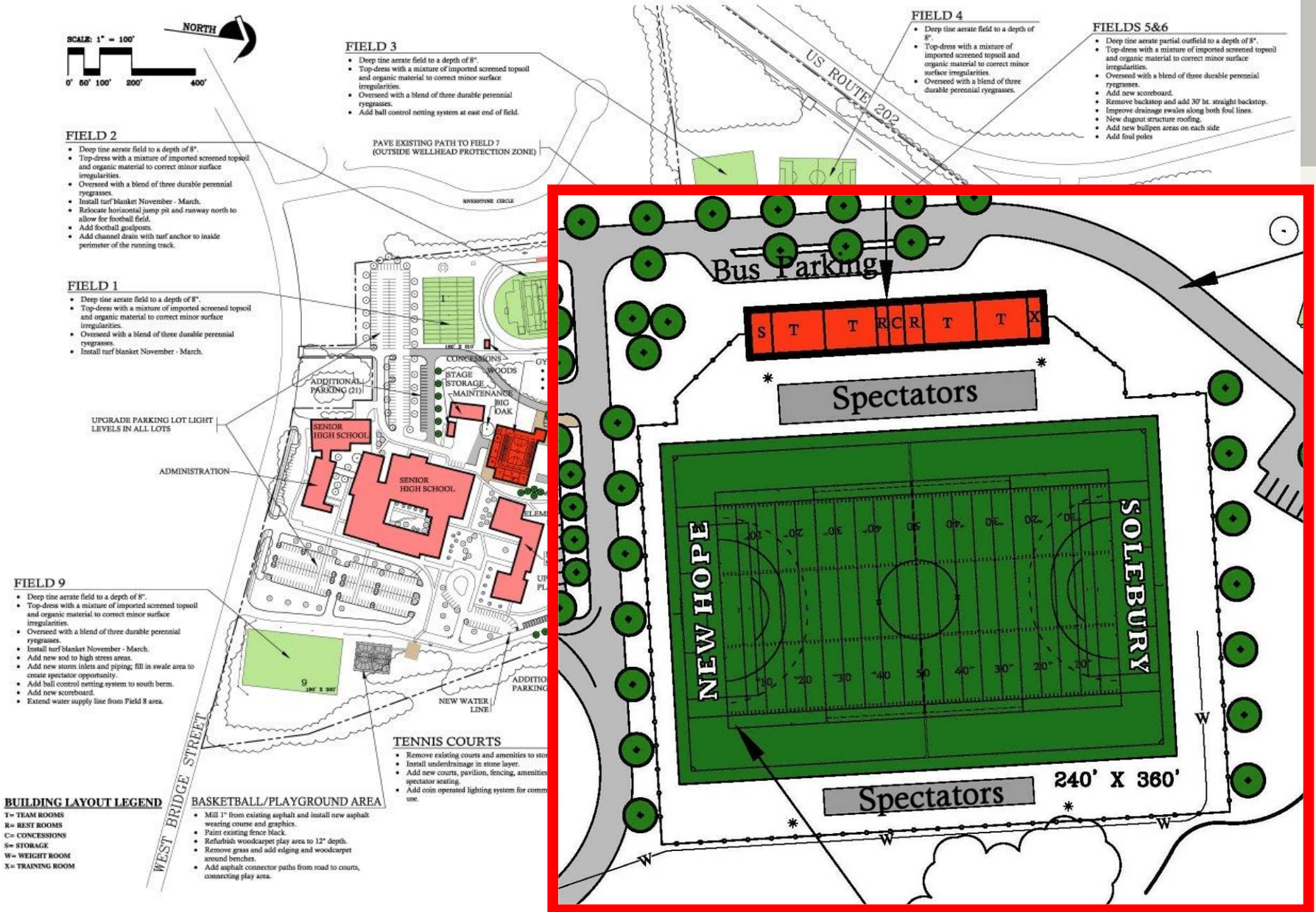
Improve campus circulation

Additional gymnasium

Additional storage space



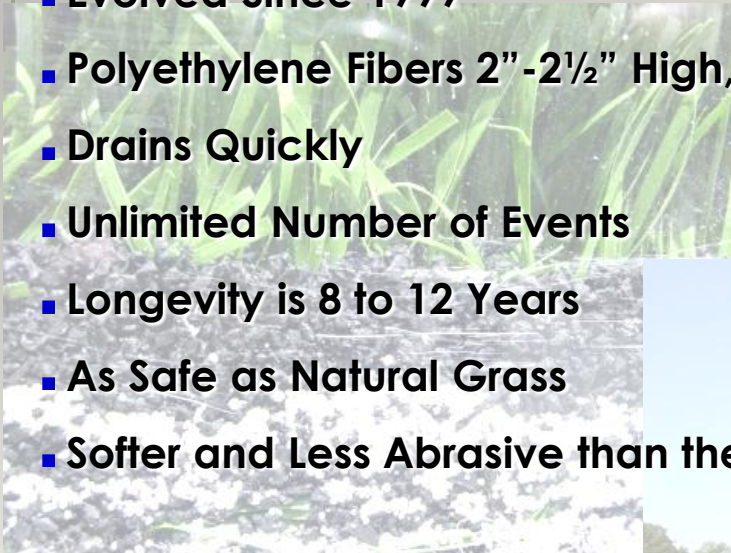
Potential Long Term Solutions



What is Synthetic Infill Turf?



- Evolved Since 1999
 - Polyethylene Fibers 2"-2½" High, Filled With Granular Rubber and Sand
 - Drains Quickly
 - Unlimited Number of Events
 - Longevity is 8 to 12 Years
 - As Safe as Natural Grass
 - Softer and Less Abrasive than the Old "Astroturf" of the 1960's – 1990's
-
- One Synthetic Turf Field Equals Two Natural Grass Fields
 - One Synthetic Turf Field with Lights Equals Three Natural Grass Fields
 - A Synthetic Turf Field is Worn Not by Use, but by Time



Construction Sequence



Establish Subgrade

Install Underdrainage

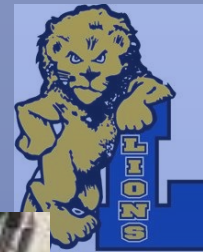


Lay Stone Base



Install Turf and Graphics

Safety Concerns?



Severe injury (22+ days time loss) incidence rate is almost doubled on the natural grass surface (1.9) when compared to synthetic infill turf surface (1.1).

Synthetic Infill Turf seemed to indicate more:

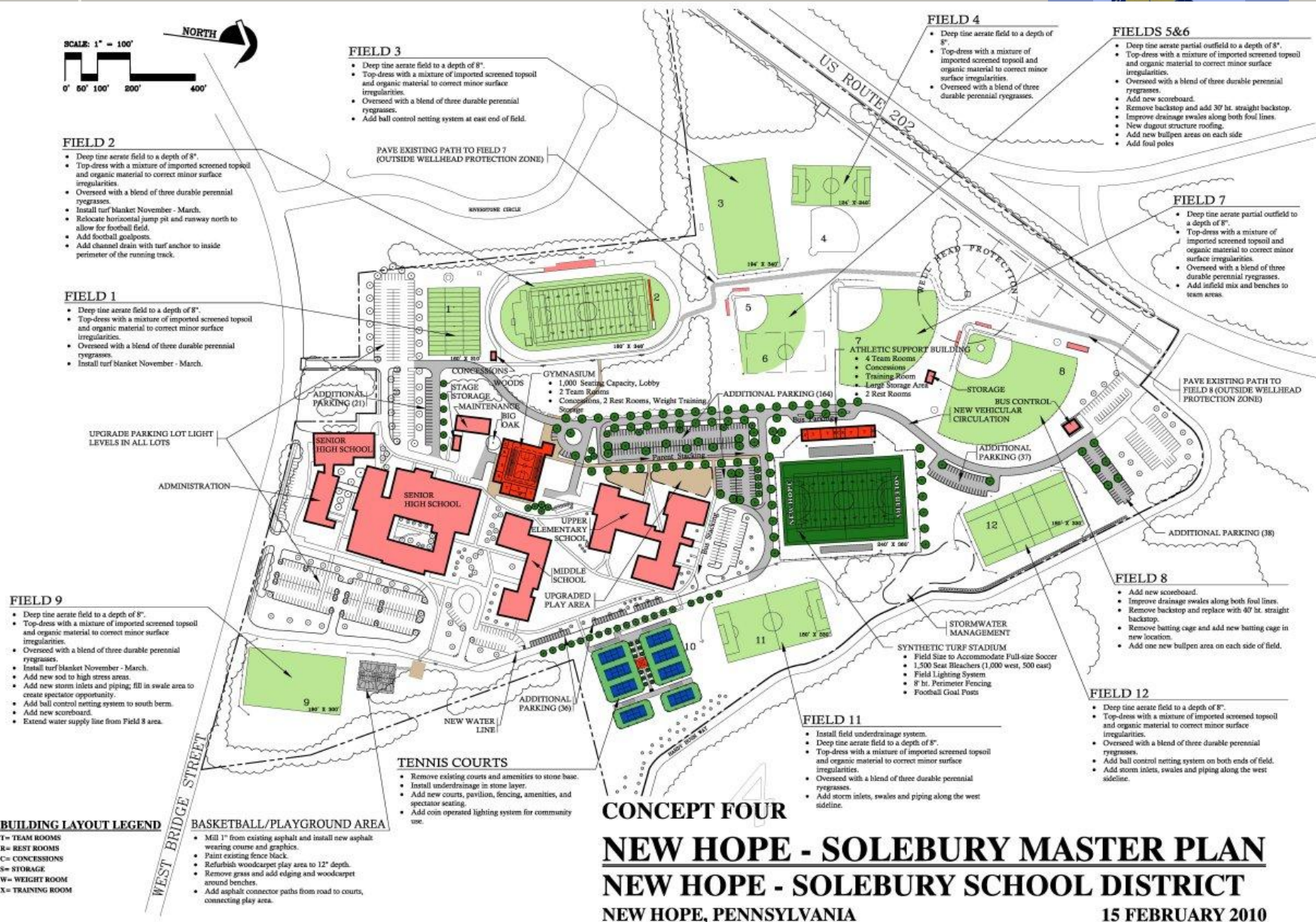
- Surface/ Epidermal Injuries (abrasions, lacerations)
- Muscle Related Trauma (sprains, tears)
- Injuries Due to High Temperatures (heat stroke)
- High Ankle Injuries (sprains)

Natural Grass fields seemed to indicate more:

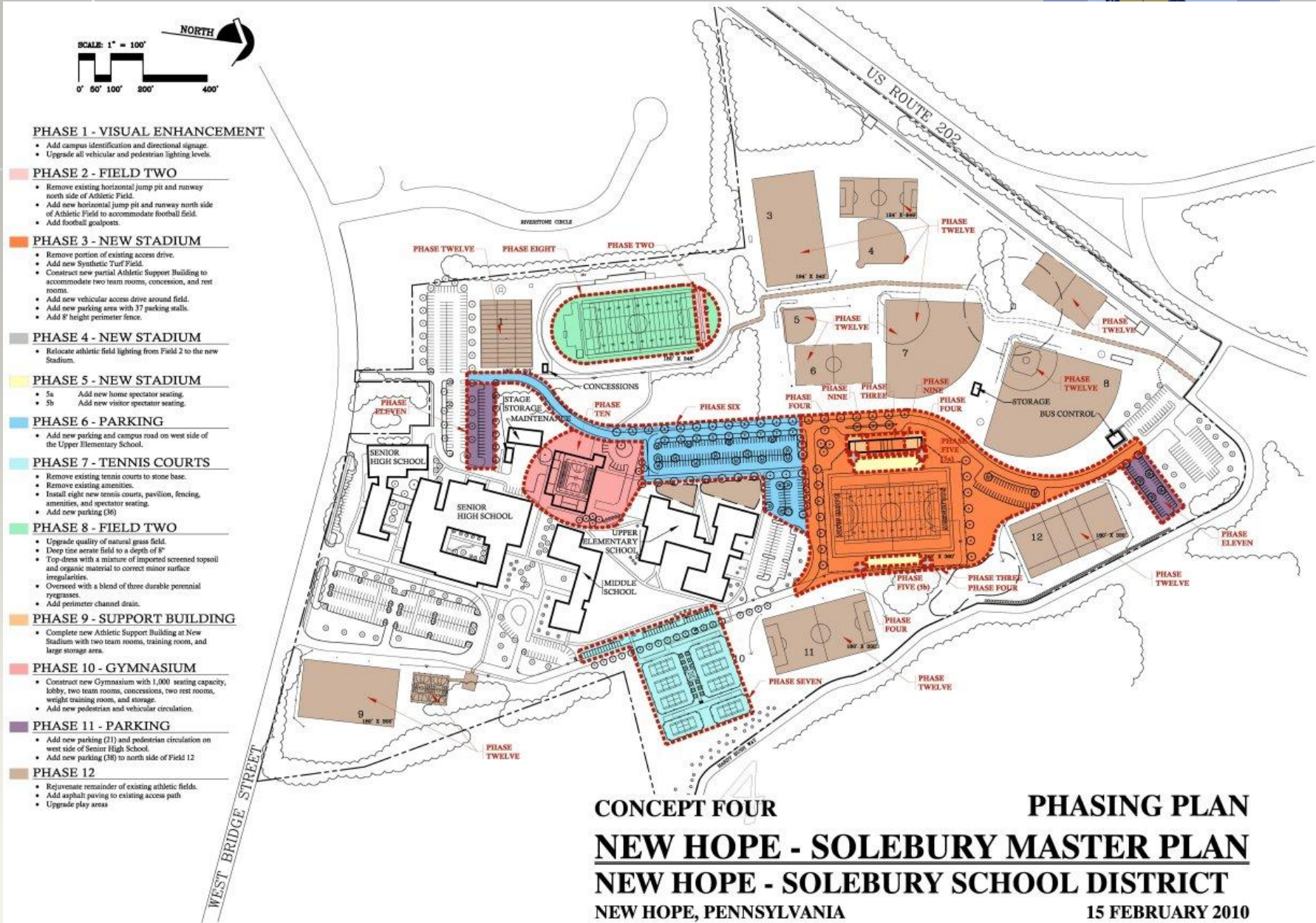
- One to Two Day Time Loss Injuries
- Twenty-two Day Time Loss Injuries
- Head and Neural Trauma (concussions, stingers)
- Ligament and Knee Injuries (torn ligaments, hyperextension)



Potential Long Term Solutions



Potential Long Term Solutions



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