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Synthetic Turf Improvement Projects

City Council Programs and Services Committee, City of Newton



Turf Field Needs for Both High Schools

NEWTON SOUTH HS TEAMS

FALL:

- 3 GIRLS SOCCER TEAMS (9TH, JV, VARSITY)
- 3 BOYS SOCCER TEAMS (9TH, JV, VARSITY)
- 3 FOOTBALL TEAMS (JV, VARSITY)
- 3 FIELD HOCKEY TEAMS (9TH, JV, VARSITY)
- 2 CROSS COUNTRY TEAMS ON TRACK

WINTER:

- 2 GIRLS TRACK TEAMS (WEATHER PERMITTING)
- 2 BOYS TRACK TEAMS (WEATHER PERMITTING)

SPRING:

- 3 GIRLS LACROSSE TEAMS (ALL LEVELS)
- 3 BOYS LACROSSE TEAMS (ALL LEVELS)
- 2 OUTDOOR TRACK (VARSITY, JV)
- 2 MIDDLE SCHOOL TRACK TEAMS
- 1 UNIFIED TRACK TEAM
- POTENTIAL RUGBY TEAMS

UP TO 11 PRACTICES/GAMES EACH WEEKDAY TO SCHEDULE

NEWTON NORTH HS TEAMS

FALL:

- 3 GIRLS SOCCER TEAMS (9TH, JV, VARSITY)
- 3 BOYS SOCCER TEAMS (9TH, JV, VARSITY)
- 3 FOOTBALL TEAMS (9TH, JV, VARSITY)
- 3 FIELD HOCKEY TEAMS (9TH, JV, VARSITY)
- 2 CROSS COUNTRY TEAMS ON TRACK

WINTER:

- 2 TRACK TEAMS, WEATHER PERMITTING

SPRING:

- 3 GIRLS LACROSSE TEAMS (ALL LEVELS)
- 3 BOYS LACROSSE TEAMS (ALL LEVELS)
- 2 OUTDOOR TRACK (VARSITY, JV)

UP TO 12 PRACTICES/GAMES EACH WEEKDAY TO SCHEDULE

Athletics at HS Fields & Albemarle Sports Complex

Winter:

- Oxford Rd. Neighborhood soccer
- Juventus Boston
- Newton Area Flag Football League Clinic
- Newton Girls Soccer
- Newton Youth Soccer
- Boston Villa Soccer club
- BOH & Day Middle Schools
- General Park and School Field Users

Spring:

- B.A.T. Training
- Buda Youth Frisbee
- J. Lowe Soccer Camps (BC clinic)
- Newton Boys Lacrosse league
- Boston FHC (field hockey clinic)
- Newton Area Flag Football League Clinic
- Eastern Mass Women's Soccer (Suburban Thunder games)
- USA Track and Field New England – outdoor track
- Newton Special Athletes – outdoor track
- Newton Girls Soccer
- Newton Youth Soccer
- Over the Hill Soccer League
- Newton Girls lacrosse League
- Prime – workouts
- Tanrikulu resident group
- Eastern mass Women's Soccer League
- Newton Little League
- Newton LL Seniors
- Senior Youth Baseball
- Newton Girls Softball
- F.A. Day Middle School Athletics;
- Prime Baseball League
- Babe Ruth Baseball Tryouts
- Adult Cricket
- Extra Innings Baseball Clinic
- BOH & Day Middle Schools
- General Park and School Field Users

Summer:

- Eastern Mass Women's Soccer (Suburban Thunder games)
- BUDA Youth Frisbee
- Boston FHC (field hockey clinic)
- Newton Community Ed summer sports clinics
- REV Lacrosse
- Newton Special Athletes – outdoor track
- Bertuzzi Soccer Training
- NN/NS Football Clinic
- North fall pre-season training and tryouts
- Newton Little League
- Babe Ruth Baseball
- Adult Cricket
- Newton Girls Softball
- Newton Community Ed – baseball
- Boys and Girls Club
- Extra Innings Baseball Clinic
- Mustang Youth Football
- American Legion Baseball
- Prime Baseball
- Juventus Youth Soccer
- BOH & Day Middle Schools
- General Park and School Field Users

Fall:

- Newton Mustangs (youth football)
- Endurance Youth Field Hockey
- Newton Boys Lacrosse League
- Newton Area Flag Football League Clinic
- Over the Hill Soccer league
- Eastern mass Women's Soccer League
- Newton Girls Soccer
- Newton Youth Soccer
- Newton Mustangs Football game
- Newton Little League
- Newton LL Seniors
- Adult Cricket
- Newton Girls Softball
- Mustang Youth Football
- F.A. Day Middle School Athletics
- Extra Innings Baseball Clinic
- Lasell Baseball
- NNHS Baseball captain's practice
- BUDA Youth Frisbee
- BUDA Adult Frisbee
- BOH & Day Middle Schools
- General Park and School Field Users

Synthetic Turf Replacements & Enhancement

- Synthetic turf field replacements at both NSHS Synthetic Fields
 - Winkler Stadium & Brandeis Rd Field
- Track Improvements
 - resurfacing at NSHS



Project History

- Newton South HS synthetic turf fields and track
 - constructed in 2009 (13 yrs. old)
- Synthetic turf typically needs to be replaced about 8 - 10 years after installation.
 - Repairs can be done to extend lifespan an additional 2-3 years
- Rubberized track surfacing typically needs to be resurfaced 8 - 10 years after installation
- Fields are currently at their “end of life cycle”
 - repairs to extend lifespan of carpet are no longer effective

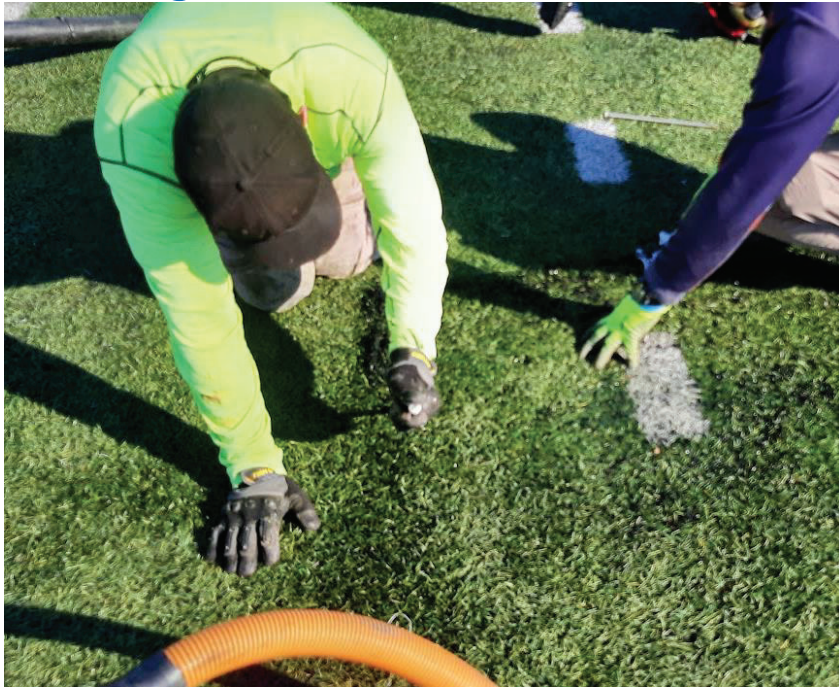
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Existing Turf Photos

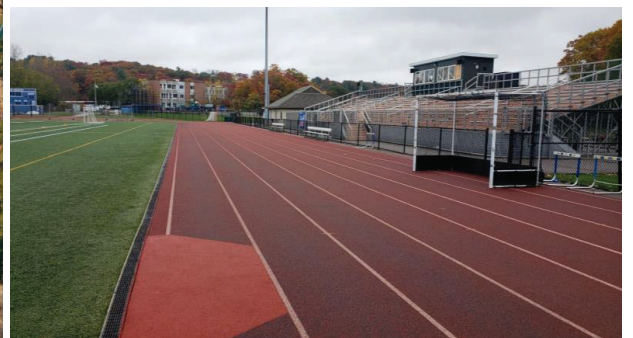


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Existing Turf Photos



Existing Track Photos



Newton South High School Turf Replacements Project Goals

- Winkler Stadium, Brandeis Road Field and Tiger Stadium synthetic turf field replacement
 - Remove and recycle existing turf carpets
 - Remove and dispose of existing Crumb Rubber infill from recycled tires
 - Replace with better and cleaner turf carpet and infill
- Field collector drains cleaned

Synthetic Turf Field Surfaces and Materials Selection Based on a Balanced Approach

 <p><u>Longevity</u></p> <ul style="list-style-type: none">• Life Span and Warranty• Quality of Carpet• Quality of Infill• Minimal Infill Replenishing	 <p><u>Maintenance</u></p> <ul style="list-style-type: none">• Annual Maintenance• Minimal Infill Displacement• Minimal Large-Scale Repairs• Reduced field marking labor	 <p><u>Player Safety in Turf</u></p> <ul style="list-style-type: none">• Consistency in GMAX Rating• Heat Index• Toxic Chemical Exposure• Freezing Conditions• Consistency in Head Injury Criterion (HIC) Rating	 <p><u>Environmental Impacts</u></p> <ul style="list-style-type: none">• Minimal Infill Displacement into waterways• Cleaner Materials• No need for Watering• Future End-of-Life Disposal• PFAS Exposure	 <p><u>Playability</u></p> <ul style="list-style-type: none">• Playability• Shock Absorption• Minimal Disruption to Use• Extended Seasonal Use• Retain Newton Athletic Competitive Edge
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Recommended Synthetic Turf Field Surfaces and Materials Selection Based on a Balanced Approach

- Turf Carpet:
 - Dual Fiber Turf: Slit Film + Monofilament
 - Fiber height: 2.25"-2.5" to ensure GMAX values
 - Appropriate for: Soccer, Football, Lacrosse, Field Hockey and more!
 - Infill Flyout and Displacement Control
- Infill Mix:
 - TPE + Sand
 - No material Migration
 - Retains consistent GMAX ratings
 - Reduced heat levels compared to Crumb Rubber
 - Minimal annual replenishing required at center field and goals
 - Less susceptible to freezing

Project Budget Funding Request

- Total Estimated construction cost Including track resurfacing: **\$967,000**
- Turf materials at Winkler Stadium: **\$1,146,354**
- Turf materials at Brandeis Road: **\$1,086,553**
- Total Construction Administration: **\$40,000**
- **TOTAL PROJECT COST \$3,240,000**

Project Timeline

- Construction bid: mid to late January 2023
 - Installation of carpet and infill, track resurfacing,
- Material Order (Infill and Carpet): mid-February 2023
- Ground-breaking: After spring 2023 athletic season
- Substantial Completion: End of summer, prior to the start of 2023-2024 athletic pre-season



Thank you for attending!