




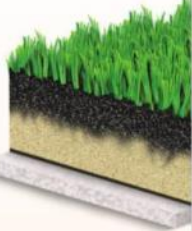
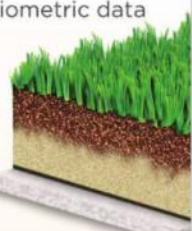
# The Bow Community Turf Field: Built By Our Community – For Our Community



# What is Artificial Turf?

- Artificial turf is a surface of synthetic fibers that look like natural grass
- Artificial turf is most often used in outdoor recreational arenas because it stands up to heavy use

## The evolution of synthetic turf


GEN 1: 1960s	GEN 2: 1970s	GEN 3: 2000s	GEN 3.5: 2010s	GEN 4: present
<ul style="list-style-type: none"><li>- Nylon fibers (abrasive)</li><li>- Short pile heights</li><li>- Glued over concrete or asphalt</li><li>- Soft cushion used beneath the turf</li></ul>	<ul style="list-style-type: none"><li>- Polypropylene fibers (less abrasive)</li><li>- Short pile heights</li><li>- Sand infill</li><li>- Soft cushion used beneath the turf</li></ul>	<ul style="list-style-type: none"><li>- Introduction of soft, grass-like polyethylene fibers</li><li>- Sand &amp; rubber infill used to improve traction, impact safety and softness underfoot</li><li>- Tall pile height: 2.0" - 2.5"</li></ul>	<ul style="list-style-type: none"><li>- Continued use of polyethylene fibers</li><li>- Sand &amp; rubber infill</li><li>- Tall pile heights: 2.0" 2.5"</li><li>- Introduction of shock pads for improved impact safety</li></ul>	<ul style="list-style-type: none"><li>- Continued use of polyethylene fibers</li><li>- Sand &amp; natural infill</li><li>- Tall pile heights: 1.75" 2.0"</li><li>- Use of a performance pad for safety &amp; fine tune systems based on field &amp; biometric data</li></ul>
				

# Potential Misconceptions Associated with a Community Turf Field Project

## Common Misconceptions:

- Artificial turf is bad for the environment. Actually, artificial turf is quite environmentally friendly and doesn't require toxic pesticides, herbicides, or fertilizers like natural grass.
- Artificial turf is unsafe for kids and pets. Top-quality artificial turf products are now manufactured using only non-toxic ingredients.
- Participating in sports on artificial turf greatly increases the chance for injuries to players. While older studies on this issue have reached varying conclusions, none support the concept that it greatly increases the chance for injuries.
- The light pollution at night will disturb the tranquility of Bow. Technological advancements in lighting have come a long ways and its possible that a person could be within 50 feet of the field and still be in the dark.



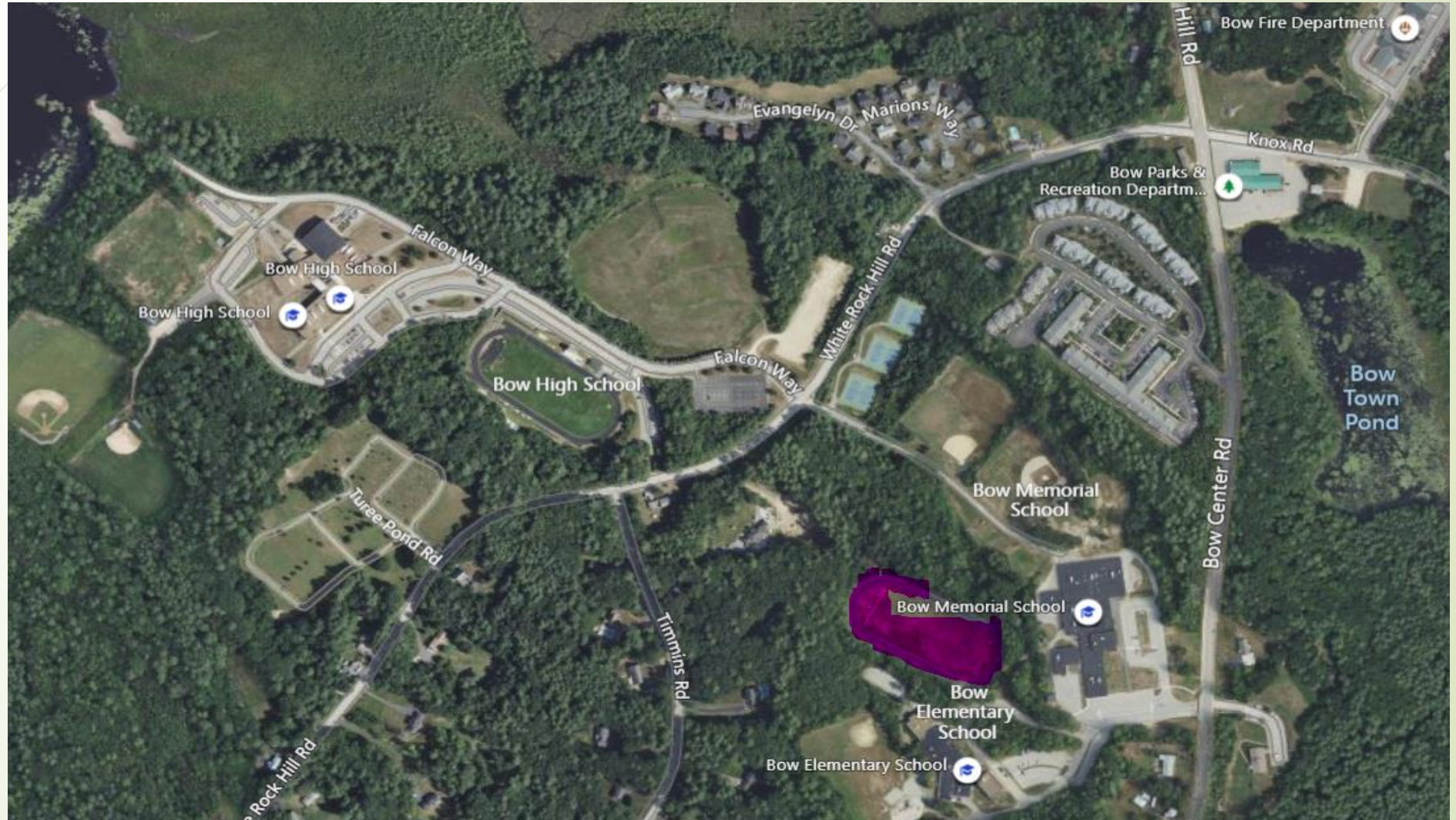


# Location, Location, Location - Ideally located between BES and BMS:

There are many reasons to build the community turf field in this location:

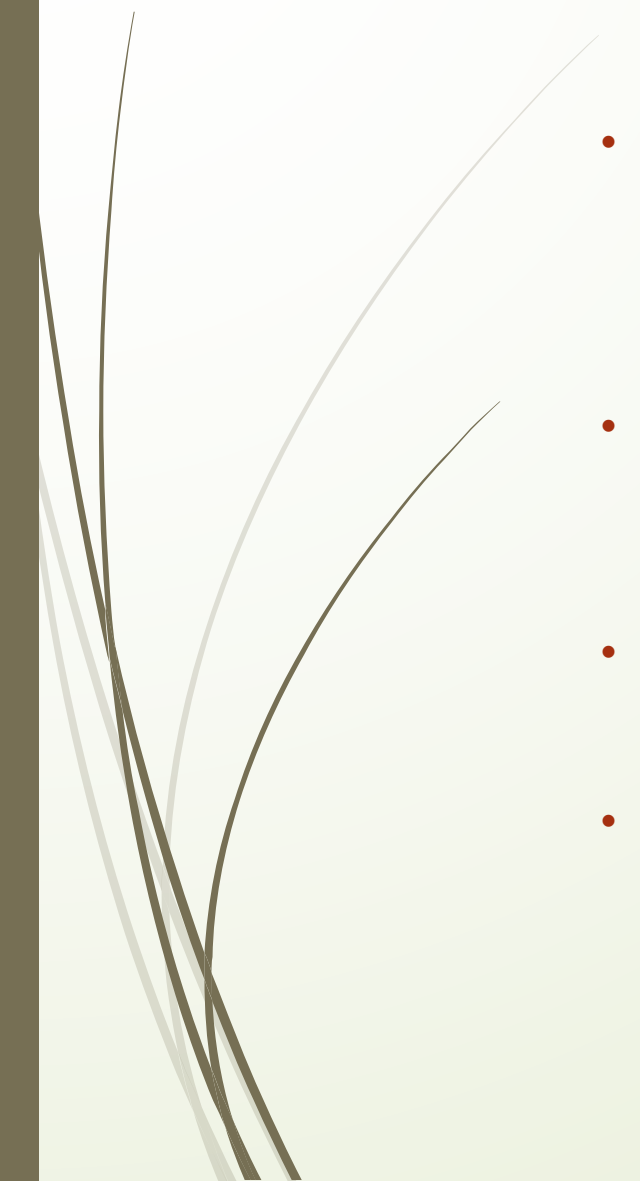
- The ability to use this field by the students at BES and BMS for educational purposes and recreation is an important consideration in this project.
- This is a Community Field, not a Bow High School field, per se. The presence of the field at this location will make it more accessible to all.
- The current condition of the BMS track field is considered by all to be the worst field in town. By building the field in this location it will make the field the best field, while not changing the conditions of any other fields.
- The location has better access for more people, as folks attending this location can park at BES, BMS or park at BHS and walk 100 yards through a new path from the Bow tennis courts to the Community Turf Field.

## Bringing together BHS, BMS, BES & Community Center





# Timing is Everything

- 
- Covid has made it clear that we need to do everything in our power to educate outdoors and a turf field extends our ability to teach outside by at least three months.
  - Recent negotiations with Dunbarton have resulted in a current (and future) sizeable funds – available for this project.
  - Receipt of a sizeable donation from a local construction company.
  - Receipt of sizeable donations from numerous local organizations and commitments to fund additional annual payments as well.



# Community Benefits of Building a Turf Field

Need	How?
<b>Increased educational opportunities</b> for BES & BMS students	Enclosed area with high capacity seating, audio system, electricity and WIFI access make it ideal for whole-school assemblies, PE classes, special events, and a variety of outdoor learning experiences.
<b>Expanded athletic facilities</b> to benefit variety of teams	Multi-use field and track accommodate Football, Soccer, Lacrosse, Field Hockey, Baseball and Softball games, and Track use.
Eliminates the need to consider <b>renting athletic space</b> in October/November and March/April for outdoor sports teams	Eliminates necessity for rented athletic space (estimated savings of at least \$30,000 (March-April) for 43 teams (12 school + 31 Youth).

## Additional Considerations

- Bow has doubled in size in the past four decades, yet community field space has remained static since the 1970's.
- Comparable New Hampshire communities all have turf fields (e.g. Amherst, Hollis-Brookline, Hanover, Windham, Portsmouth, Exeter, Bedford, etc.) (Hopkinton does not, but their school system is 1/3 the size of Bow).



# Educational Needs





# Positive Educational Impact of the Project

## **Whole School & Grade Level Impact:**

- Return to Whole School Assemblies
- Terrific Space for Grade Level "Community Meetings"
- Extended Season Recess for outdoor activity

## **Class and Academic Impact:**


- Physical Education Classes - extensive potential virtually all day weather and daily plan permitting
- Special Classroom Events - Reservable for classes (Rocket day and other science activities)
- Extended Season Recess - a huge help for the entire building during mud season

## **Special Events and Theme Days:**

- Dunbarton Transition Events / SALC Day
- Greek Day including the Olympics
- 5th and 6th grade Social sponsored by the PTO
- Other Community events



## **This Space is Beneficial for Educational Learning**

- It is a contained space where supervision and whole field visibility is excellent.
  - It will have effective seating for large groups.
  - It will have an effective and clear audio system.
  - It will have power and Wi-Fi which is critical for many of these events (include BES circle for waiting parents).
  - Its location is truly shared equally between the Memorial and Elementary Schools.
- 

# Athletic Needs





# Community Turf Field ~ Typical Seasonal Usage

## SPRING & FALL

- School use weekdays (7am-3pm)
- School Team Practices (3-6pm)
- Youth Team Practices (6-9pm)
- Weekends primarily for youth teams (occasional school games)
- Potential site for Graduation or Moving Up ceremonies

## SUMMER

- Weekdays usage by various organizations in town (youth, off-season school, Adult leagues)
- Weekend facility rental to outside organizations (revenue potential)

## By the Numbers: Basic (large field, bleachers and lights)

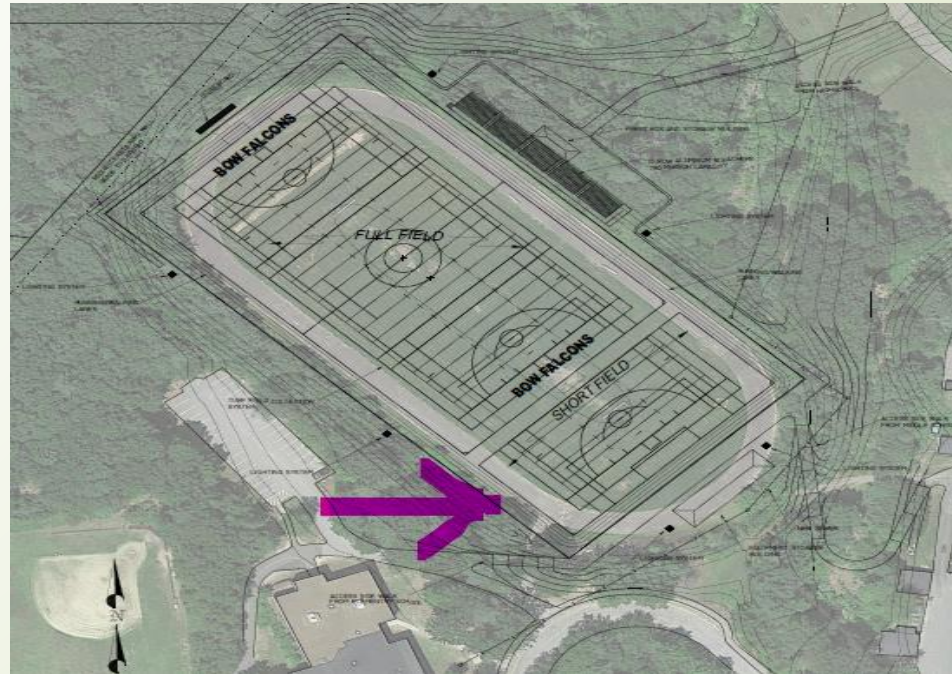
### The Cost:

The demolition of the current track and prep work:	Free (Audley Construction)
Subsurface Turf Work:	\$500,000
Turf:	\$560,000
Lights:	\$350,000
Bleachers:	\$330,000
Everything else (sports equipment, scoreboard, electrical work, storage shed)	\$760,000
<b>TOTAL</b>	<b>\$2.5 Million</b>

## By the Numbers: Preferred (Basic + short field (1/2 a field) & restrooms)

The Additional Preferred Cost:

\$500,000



Basic + Preferred Total Cost:

\$3 Million

# Funding for a Bow Community Turf Field





# Donation Received

**Upfront donations have already been committed from:**

- Bow Athletic Club (\$40,000 - \$60,000)
  - Bow Soccer Club (\$5,000)
  - Bow Youth Football (\$5,000)
  - Bow PTO (\$5,000)
  - Bow Schools Foundation (\$1,000)
  - Private donors already exceed \$10,000
- 
- Audley Construction field prep work (est. in kind value \$250,000-\$500,000)



# Specific Up Front Proposed Offsets:



• Donations from BAC/BYF/BSC/BSF/PTO and others:	\$ 56,000
• Donations from individuals:	\$ 10,000
• BES Outdoor Learning Space Grant:	\$ 50,000
• Dunbarton Capital Reserve Fund*:	\$292,000
• Dunbarton past services rendered payment*:	\$146,802
• <u>Bow High School Sports Fee Account*:</u>	<u>\$ 30,000</u>
<b>TOTAL:</b>	<b>\$534,802</b>

**\* - potential offsets of Dunbarton and High School sports fees is a proposed way to reduce bond amount – proposal has not been officially approved by Bow School Board at this time.**

## Bonding the Remainder of the Basic Plan (\$2 million)

### **\$2 million bond needed:**

- Annual payments of apprx \$215,000 for next ten years (bond payment vary by year)
- Proposed offsets reduce annual payments by c. \$142,000 (see right for explanation)
- Actual amount to be raised annually (beginning in 4 years: c. \$70,000)

### **Payments Offset by:**

- Increased BHS Sports Activity Fees\* (from \$50 to \$100)= c. \$60,000/year
- Dunbarton Area Agreement CIF Fund\* = c. \$60,000/year
- BAC Registration Surcharge (\$15) = c. \$18,000/year
- Bow Soccer Club Registration Surcharge (\$15) = c. \$3,000/year
- Bow Youth Football Registration Surcharge (\$15) = c. \$1,000/year

	BOND EXPENSES				REVENUES					
	Principal Payment	Interest Payment	Interest Payment	Total Debt	Dunbarton	CRF Withdrawal	BHS Athletic	BAC/BYF	Dunbarton	Taxation
Fiscal Year	15-Aug	15-Aug	15-Feb	Payment	Aide Payment	BHS Athletics	Fees	BSC	CIF-U	
2022-23	\$ -	\$ -	\$ 50,000	\$ 50,000	\$ 50,000	\$ -				
2023-24	\$ 200,000	\$ 15,000	\$ 13,500	\$ 228,500	\$ 196,802	\$ -		\$ 31,698		\$ -
2024-25	\$ 200,000	\$ 13,500	\$ 12,000	\$ 225,500	\$ -	\$ 225,500				\$ -
2025-26	\$ 200,000	\$ 12,000	\$ 10,500	\$ 222,500	\$ -	\$ -	\$ 56,000	\$ 24,000	\$ 60,000	\$ 82,500
2026-27	\$ 200,000	\$ 10,500	\$ 9,000	\$ 219,500	\$ -	\$ -	\$ 56,000	\$ 24,000	\$ 60,000	\$ 79,500
2027-28	\$ 200,000	\$ 9,000	\$ 7,500	\$ 216,500	\$ -	\$ -	\$ 56,000	\$ 24,000	\$ 60,000	\$ 76,500
2028-29	\$ 200,000	\$ 7,500	\$ 6,000	\$ 213,500	\$ -	\$ -	\$ 56,000	\$ 24,000	\$ 60,000	\$ 73,500
2029-30	\$ 200,000	\$ 6,000	\$ 4,500	\$ 210,500	\$ -	\$ -	\$ 56,000	\$ 24,000	\$ 60,000	\$ 70,500
2030-31	\$ 200,000	\$ 4,500	\$ 3,000	\$ 207,500	\$ -	\$ -	\$ 56,000	\$ 24,000	\$ 60,000	\$ 67,500
2031-32	\$ 200,000	\$ 3,000	\$ 1,500	\$ 204,500	\$ -	\$ -	\$ 56,000	\$ 24,000	\$ 60,000	\$ 64,500
2032-33	\$ 200,000	\$ 1,500	\$ -	\$ 201,500	\$ -	\$ -	\$ 56,000	\$ 24,000	\$ 60,000	\$ 61,500
	\$ 2,000,000	\$ 82,500	\$ 117,500	\$ 2,200,000	\$ 246,802	\$ 225,500	\$ 448,000	\$ 192,000	\$ 480,000	\$ 576,000
Athletic Fields Capital Reserve Fund	Balance as of 6/30/21	\$49,421	\$	Fiscal year collection in	Years 2021-225	Equals	\$245,421 (\$56,000/year)			

## Proposed Actual Bow Tax Impact

Bond Year	Payment Source	Tax Impact
1	Dunbarton payment for past services	\$0
2	Dunbarton payment for past services + BAC/BSC/BYF Registration Surcharge Fees	\$0
3	Accumulated BHS Sports Activity Fees	\$0
4 – 11	\$56,000 from BHS Sports Activity Fees \$24,000 from BAC/BSC/BYF Registration Surcharge Fees \$60,000 from Dunbarton CIF Fund	Ranges from \$62,000 to \$82,000 per year
	Preferred + Basic Plan would increase annual Tax Impact By Additional	\$55,000 per year

***Basic Total Taxpayer contribution to the  
Bow Community Turf Field = \$576,000 (\$1.126 million Preferred)***



# The Conservative Estimates: More Potential Offsets

Potential additional offsets include:

- Sponsorship of the field or stadium (e.g. Bank of New Hampshire Stadium @ Laconia High School - \$100,000+).
- Revenue from renting the facilities to third parties (e.g. travel baseball programs), particularly during the summer (summer weekend potential annually \$20,000).
- Additional “in kind” donations to offset any particular building costs associated with the project such as lumber, electrical, plumbing or other goods or services that a local Bow taxpayer is willing to offer/volunteer.\*\*\*
- Revenue from hosting various events like State Championships or others.




## **Bow Elementary School Renovation Considerations (Minimal Impact)**

- The primary funds being used to offset the costs of a turf field are Dunbarton funds –which are expected to be used only in projects that impact Dunbarton students (i.e. not BES).
- BHS sports fees have historically only been used to improve BHS athletic facilities (i.e. not BES).
- The other fees from non-school entities such as BAC/BSC/BYF have historically only been used to improve athletic facilities in town (not BES educational facilities).
- Significant portions of this project will make the BES Renovation easier with power/electrical and WIFI issues being included in this project (reducing the cost of any potential future BES renovation/addition and BMS upgrades).

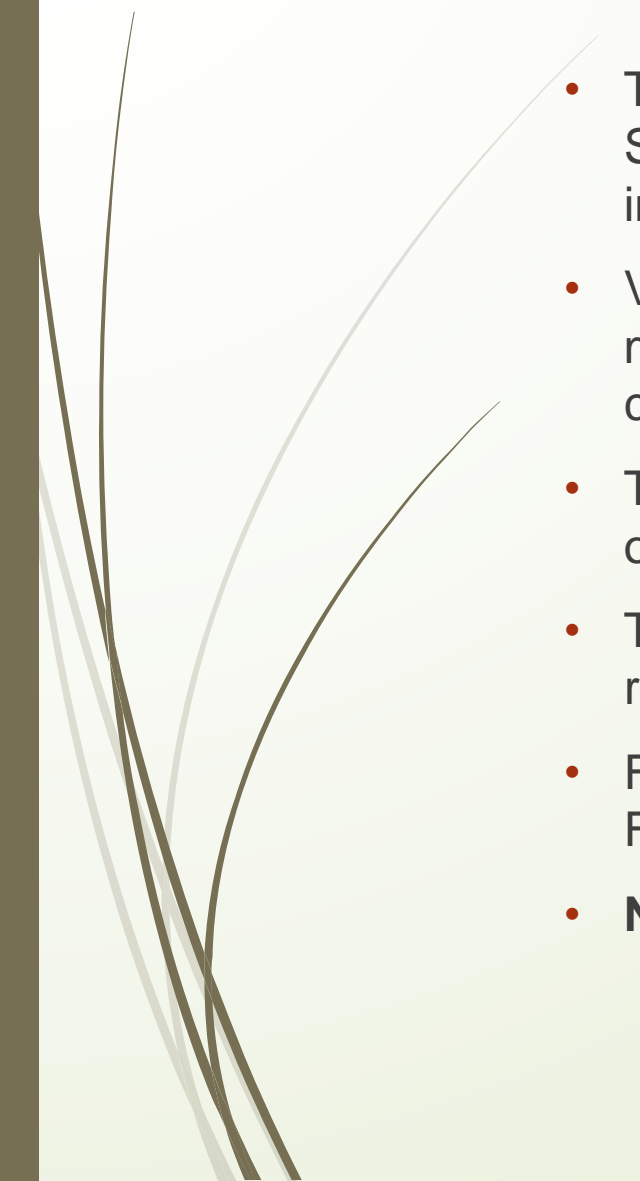


# Additional Impact of a Community Turf Field

- While minimal, under the proposal, it will nevertheless increase taxes for certain individuals that will likely never use the field (e.g. a cumulative \$55,000/year to Bow would cost a typical taxpayer \$17/year).
  - It could increase traffic in the area if used for large events such as State Championships.
  - While minimal, there will be an increase noise and light disruption.
  - The turf, itself, will need to be replaced every 10 - 15 years (estimated replacement cost - \$400,000).
  - A new Community Turf Field will help to give Bow additional recreational facilities, but it is still not nearly enough to truly satisfy all the recreational needs of the youth in Bow.
- 



# In Conclusion

- The Bow School Board and SAU 67 Administration, the Bow Athletic Club, Bow Soccer Club, Bow Youth Football, Bow School Foundation, Bow PTO and various individuals support this project.
  - Various funding streams available for a limited time, allow this project to have minimal impact on Bow Taxpayers while yielding the greatest benefit for our children.
  - The benefit of this turf field extends beyond the athletic use and providing an outdoor learning space made necessary by the Covid pandemic.
  - This turf field will reduce the strain on existing grass athletic fields and community recreation spaces
  - For a typical taxpayer with a \$400,000 home, at most the Basic Community Turf Field will annually cost them \$22 and, if Preferred, an additional \$17 per year.
  - **Now is the time to build a Community Turf Field**
- 

# The Bow Turf Field:

*Built by our Community,*

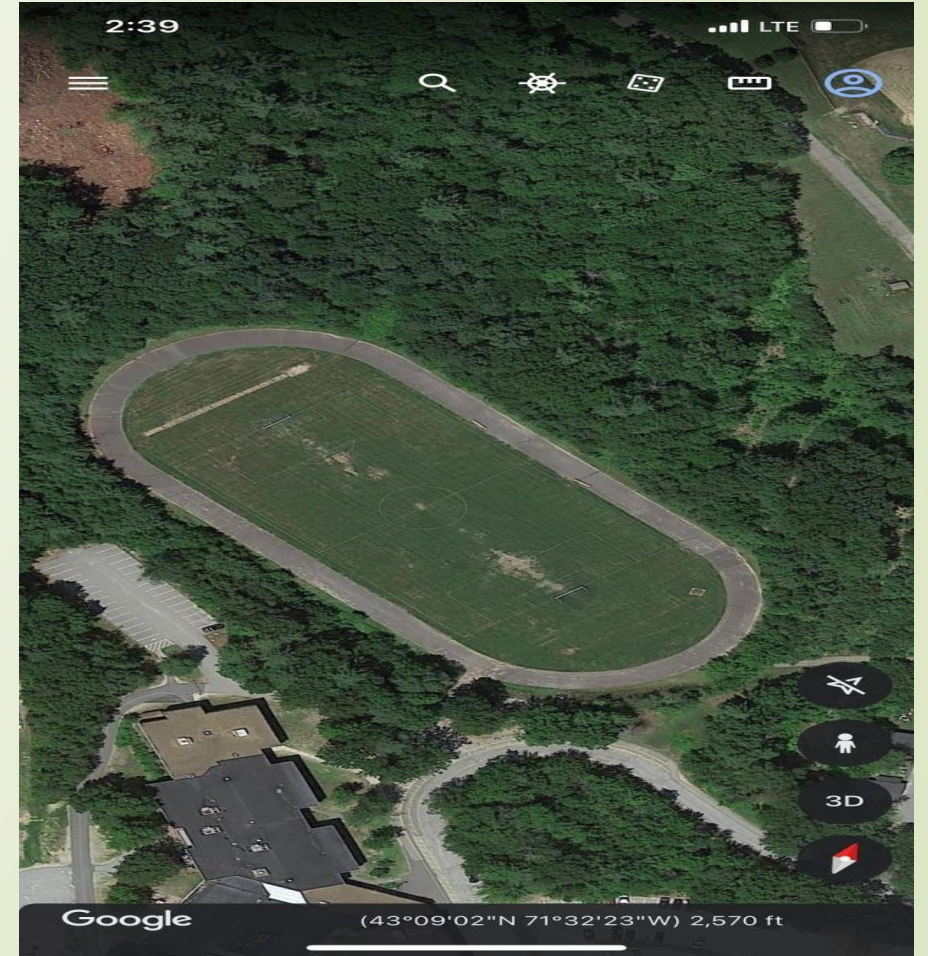
*for our Community*



Hanson Park

and

BMS Field



# Hollis Brookline's New Turf Field Photos



# Hollis Brookline's Turf Field Photos Continued

