I. Project Update   
   • Permitting  
II. Irrigation Options Review  
III. Updated Design Review  
IV. Project Budget Update  
V. Vote to Approve 60% Construction Document Submittal to MSBA
IRRIGATION OPTIONS REVIEW
Three New Fields

- (2) Combination Baseball/Soccer Fields
- Field Hockey
- Irrigated Area ~340,000 sf (~7.8 acres)

Peak Daily Demand
~55,000 gal/day

Peak Flow Requirement ~150 gpm

- Watering 6 to 7 gallons per night
IRRIGATION COVERAGE AREA
Viable Options for Water

Option 1

Public Water Supply

✓ High Quality
✓ Expensive
✓ Poor Optics
✓ Processed/Manufactured Clean Drinking Water

Option 2

Groundwater

✓ Existing Well at Brennan
  • Poor Water Quality – Fe and Mn
  • Fe: 15.5 mg/l – HIGH, Staining
  • Mn: 0.80 mg/l – HIGH, Staining
  • Shallow
✓ New Bedrock Well Development
• Water Flows in Fractures
• Well Needs to Intersect a Fracture (Vein)
• Fracture Trace Analysis, FTA
• Hydrogeologist – Geosphere Environmental
• Looking For Fault Lines Through Aerial Imagery
• Intersecting Faults Have High Concentrations of Fractures
• Locate Outside of Existing and Proposed Structures and Proposed Roadways
FRACTURE TRACE ANALYSIS

Location Coordinates
1) 41.939390 -71.306275
2) 41.938053 -71.304462
3) 41.938198 -71.299960
* ID numbers not necessarily in order of drilling preference.
✓ FTA Increases Chances of Finding Water But is NOT a Guarantee of Drilling Success

✓ Proposing Deep Wells (500 to 1,000 feet) Which are Isolated from Shallow Overburden that is Fe and Mn Rich.

✓ Will Consider Discreet Sampling While Drilling to Find Water with Suitable Quality.

✓ **150 gpm** is Unlikely Through Direct Pumping From Two Bedrock Wells
Storage Tank

- Pump Continuously From Wells to Tank to Accumulate Water.
- Two Wells Need to Produce 45 gpm in Aggregate
- 45 gpm \times 20 \text{ hours per day} = 54,000 \text{ gallons}
- 4 \text{ Hours of Rest per Day}
- If Wells Come up Less than 45 gpm, Supplement the Tank with Domestic Water.
- If Well Has High \text{ Fn or Mn}, Use Domestic Water to Dilute the Concentration
- Fiberglass or Concrete
<table>
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<tr>
<th>Aggregate Well Yield (gpm)</th>
<th>Approx. Tank Size Requirement</th>
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<tbody>
<tr>
<td>45</td>
<td>40,000 gal.</td>
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<tr>
<td>50</td>
<td>40,000 gal.</td>
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<tr>
<td>60</td>
<td>35,000 gal.</td>
</tr>
<tr>
<td>70</td>
<td>30,000 gal.</td>
</tr>
<tr>
<td>80</td>
<td>28,000 gal.</td>
</tr>
<tr>
<td>100</td>
<td>20,000 gal.</td>
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- Tank Sizes Assume 100% of Irrigation Demand is Met with Well Water
- Tank Sizes Assume Daily Operation Occurs in 6 Hours Per Night
- Tank Requirement Shall Reduce with the Addition of Domestic Water
- Tank Requirement Shall Reduce with Extended Daily Operation (up to 8 hours)
ENTRY DRIVE
PROCESSIONAL FROM PARKING
A Modern **TIMELESS** Design that focuses on simple, natural colors & clean design lines.

- **Engages** the students & faculty by drawing their attention to community areas by activating them with brighter colors & textures in furniture & accent colors.

- **Inspires** creativity & connection by designing spaces within spaces and adjusting scale for learning and socializing.

- Use subtle details throughout connecting the spaces as a cohesive design by using similar materials, colors & sculptural details.
One of the primary goals in architecture is to **INSPIRE** and **EVOKE** human emotions through design. As educational designers, we have a unique opportunity to predictably elicit specific behavior and emotional responses through thoughtful design theories manifested in the built environment.
Research has also highlighted the positive effects the use of natural materials has on human health and well-being. Many natural materials, specifically wood, is considered visually appealing and to have a calming effect on its occupants, resulting in reduced stress and anxiety. The use of natural materials and a color palette inspired by nature that reminds us of our connection to the natural environment.

We advocate a strategy of “functional” color selection in lieu of “aesthetic” color selection. This functional approach to color selection focuses on using color to achieve an end result such as reduced eye fatigue, increased attention span, and supporting desired behavioral responses in multiple educational settings.
COLOR PALETTE

Accent Colors in Offices

Blue Thread Accent

Door Frames

Office Carpet

Pilasters/Columns/Casework

Reveals

Academics Flooring (Thread)

Accent Colors in Academics

Neutral Field Colors

Super Graphic

Floor Grilles

Mat Tiles

Accent Tile

Lounge Flooring

Main Level Flooring

Corridor Tile
AUDITORIUM COLOR PALETTE

Chair Upholstery

Wall Protection

Solid Surface Low Wall Cap

Reflective Wood Panel

Wood Veneer (Low walls/Balcony’s/etc.)

Door Frame Paint

Ceiling/Wall Paint

Powerbond Carpet Flooring

Acoustical Wall Covering

Rubber Base
AUDITORIUM
COLOR WHEEL

Thread

Sapphire

Garnet

Amethyst

Aquamarine

Emerald

Blonde Wood
<table>
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<tr>
<th>Emerald</th>
<th>Aquamarine</th>
<th>Sapphire</th>
<th>Amethyst</th>
<th>Garnet</th>
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<td>2</td>
<td>3</td>
<td>4</td>
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</tbody>
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**NATURAL WAYFINDING**

**Vertical Organization of Accents in Jewel Tones at door alcove**

**Horizontal Super Graphic Identifying Floor #**
MEDIA CENTER COLOR PALETTE

- Chair Upholstery
- Acoustical panels
- Door Frame Paint
- Field Paint
-地毯地砖（长条）
- Casework/Columns/Pilasters
- LVT (Upper Level)
- Rubber Base
- Reveals
- 媒体中心色板
Gymnasium Mezzanine Landing

Mezzanine Detail
high-impact wall murals

Attleboro High School
Gymnasium Weight Training Area

Weight Training Detail
high-impact wall murals

Atteboro High School
Gymnasium Cardio Area

Cardio Suite Detail

High-impact wall murals

Attleboro High School
MAIN OFFICE DETAIL
sueded vinyl wall covering
iconic marble clock relocation
CAREER CENTER DETAIL
sueded vinyl wall covering
¼” blue acrylic cut silhouettes
cut ⅛” steel letters
WELCOME CENTER/DISTRICT ADMIN.

WELCOME CENTER DETAIL
sueded vinyl wall covering
3/8” acrylic logo
¼” dimensional letters
LED halo-lit shape
PROJECT BUDGET UPDATE
ON BUDGET & ON SCHEDULE
DISCUSSION & VOTE TO APPROVE 60% CONSTRUCTION DOCUMENTS SUBMISSION TO MSBA