

LYME-OLD LYME SCHOOLS

Regional School District #18

A Private School Experience



in a Public School Setting

Regular Board of Education Meeting

December 4, 2019

Board Present: Diane Linderman, Chairwoman; Martha Shoemaker, Vice Chair; Jean Wilczynski, Treasurer; Steven Wilson, Secretary; Rick Goulding; Stacey Leonardo; Jennifer Miller; Mary Powell St. Louis; Suzanne Thompson

Administration Present: Ian Neviaser, Superintendent of Schools; Mark Ambruso, Principal of Lyme-Old Lyme Middle School; Michelle Dean, Director of Curriculum; Melissa Dougherty, Director of Special Services; Kelly Enoch, Principal of Mile Creek School; Holly McCalla, Business Manager; Jeanne Manfredi, Assistant Principal of Lyme-Old Lyme High School; John Rhodes, Director of Facilities & Technology; Noah Ventola, Assistant Principal of Lyme-Old Lyme Middle School; James Wygonik, Principal of Lyme-Old Lyme High School

Others Present: Mary Roth, RETA Co-President; Kevin Fuselier of Milone and MacBroom Engineering Firm; Julia Werth from *Connecticut Examiner* and Mary Biekert from *The Day*; 10 community members

The meeting was called to order at 6:30 p.m. by Superintendent Neviaser. The Pledge of Allegiance was recited.

1. Election of Board Officers

Dr. Powell St. Louis made a motion to nominate Diane Linderman as the Chair of the Board of Education. A paper ballot vote reflected all Board members voting for Diane Linderman as the Chair of the Board.

Mrs. Leonardo made a motion to nominate Martha Shoemaker as the Vice Chair of the Board of Education. A paper ballot vote reflected all Board members voting for Martha Shoemaker as the Vice Chair of the Board.

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Mrs. Miller made a motion to nominate Steven Wilson as the Secretary of the Board of Education. A paper ballot vote reflected all Board members voting for Steven Wilson as the Secretary of the Board.

Dr. Goulding made a motion to nominate Jean Wilczynski as the Treasurer of the Board of Education. A paper ballot vote reflected all Board members voting for Jean Wilczynski as the Treasurer of the Board.

I. Approval of Minutes

MOTION: Dr. Powell St. Louis made a motion, which was seconded by Mrs. Leonardo, to approve the minutes of Special Meeting of November 6, 2019 and Regular Meeting of November 6, 2019.

VOTE: the Board voted unanimously in favor of the motion.

II. Visitors

1. CAPSS Student Recognition – this agenda item was postponed until January as the students to be honored had previous engagements.

2. Public Comment

There was no public comment.

3. Report from Student Representatives

Isabella Hine and Ellery Zrenda were not present at the meeting as they had a prior commitment. The followings are the reports from the schools presented by Mr. Neviasser:

At LOLHS: Newsweek has ranked LOLHS in the top 10% of STEM schools in the country. The annual winter band concert will take place on December 12, and on December 17, the choirs will perform their holiday concert. This year the Winter Ball will be held on December 14 at Bill Miller's Castle in Guilford. Even though the girls soccer team lost a hard-fought 1-0 game, they played in their fifth straight state championship game on November 16.

At LOLMS: The middle school celebrated Veterans Day with a community breakfast and humbling ceremony with over 50 veterans being honored. The student body and veterans had the opportunity to hear Commander Ben Karpinski, Executive Officer of the U.S. Coast Guard Leadership Development Center, share an inspirational, informative and meaningful presentation about the value of the military forces, both past and present. The middle school sponsored a sock drive collecting 411 socks for neighbors at the New London Community Meal Center. The PTO sponsored its annual adult dodge ball tournament, which was fun and entertaining, raising more than \$700 for the students. The school community was able to experience Thanksgiving themselves with each student receiving a complimentary LOLMS hoodie sweatshirt that was generously donated by an anonymous individual.

At Lyme Consolidated School: On November 22, over 70 students participated in the Lyme School Talent Show. The students were amazing. A special thanks to Mrs. Pitman, Mrs. Sullivan and Mrs. Price for organizing this spectacular event. Storyteller Eshu Bumpus conducted two workshops for all of the

students on December 4. The PTO will be sponsoring the Artic Book Fair during the week of December 9. The next PTO meeting will be held on December 11 at 6:00 p.m. The 2nd and 4th graders will be going to the Garde Arts Theater in New London to see *The Nutcracker* on December 13. Also on December 13, students will be asked to donate \$1.00 or more in exchange for the privilege of wearing their PJ's to school for the day. All money collected will go directly to benefit the Center of Cancer and Blood Disorders at Connecticut Children's Hospital. On the morning of December 19, the LOLHS jazz/chorus group will be sharing their talents for all of the students and staff. All of the students and staff at Lyme Consolidated School would like to wish everyone a happy and healthy holiday season.

At Mile Creek School: During the month of November, Mile Creek held a Veterans Day assembly during which all grade levels presented what they had learned about this very special holiday and visiting veterans were honored. Parent-teacher conferences were held, and this year's Giving Tree was set up in order for members of the Mile Creek community to contribute gifts for children in need in our local community. This month, 5th grade students completed a unit of study about Native Americans. A grade five Native American Walking Museum was set up in the Media Center to showcase what students learned. Each student had three items on display: a craft reflecting what they had learned about a Native American tribe, a webpage utilizing "Thinglink" to reflect facts they learned while conducting research about Native Americans, and a myth written by each student and published utilizing a program called "Book Creator." Students walked around to look at the work of their peers and to collect new information. They then met in a large group to share some of their findings. The unit was completed when Bushy Hill came to the school, and students engaged in a variety of hands-on activities to help them to better understand the lives of Native Americans including archery, building shelters, and the history of hunting tools. Kindergarten students celebrated "Friendsgiving" with the kindergarten classes from Lyme Consolidated. They enjoyed a healthy meal and sang songs together. Many parents worked very hard to make this event a successful one. In December, the social emotional learning theme of the month will be focusing on helping students to understand how small acts of kindness can make a big difference. Our school-wide assembly will be held on December 13, which is also PJ Day. All staff and students are invited to wear their PJs to school in honor of kids battling cancer at Connecticut Children's Hospital. Everyone is invited to make an optional donation of \$1 or more, and the proceeds will benefit the Center for Cancer and Blood Disorders. During the assembly, students will see how small contributions made by many people are able to make a big impact for the benefit of others.

In the Preschool Program: the preschool will continue with December traditions this month. On December 18, the classrooms will host a gingerbread cookies decorating event for parents. This is always a fun day. Additionally, students are again collecting donations for the Humane Society in Quaker Hill. This year the preschool is supporting a former Lyme-Old Lyme student, Chelsea Evankow, by collecting donations for her work in the Peace Corp in Zambia. The collections align with the monthly theme of "Helping Our Community." The preschool will also be learning about the color green, the shape of a rectangle and experimenting with the five senses. In mathematics instruction, the students will be studying snowflake patterns, problem solving and graphing. The letters of the month are G, H and I. Students will be listening to books such as *The Gingerbread Baby* and reading about the winter

months. Since the students themselves are the artists of the month, please take a stroll down the hallways and view their latest artwork. The preschool wishes everyone a joyful winter season.

III. Administrative Reports

1. Superintendent's Report

Mr. Neviasher reviewed the December personnel report, which reflected several vacancies still to be filled and the hiring of a secretary at the high school.

Mr. Neviasher reviewed the December enrollment report, which reflected a total of 1,288 students, two less students than last month. Mr. Neviasher noted that he received the enrollment projections from both NESDEC and Peter Prowda and are incorporating that data into the budget process.

Mr. Neviasher reported on the success of the recent Veterans Day programs at each school, which were very well attended by local veterans and greatly appreciated by them as well. Mr. Neviasher noted that this annual event is by far one of the most moving events the district holds every year as it allows the students to understand the real sacrifices the veterans have made for this country. Mr. Neviasher shared a letter from David H.W. Griswold, Post Commander of the VFW Post 1467, thanking the district for the events held on November 11.

Mr. Neviasher reminded the Board members of the budget development process referring to the various budget-related meetings that begin in January.

Mr. Neviasher gave an update on the progress towards the district goals.

Curriculum. Provide professional development and feedback to support Common Core Math Practices PreK-12: Michelle Dean worked with LOLHS Mathematics Teacher Barbara Leen on embedding ongoing agenda items during common planning time that include a progression of math practice awareness to classroom visits among the department driven by personally identified math practice goals.

Human Resources. Continue to implement processes that support the recruitment and retention of high quality staff: Interviews for the Director of Facilities and Technology position begin next week. Committee has reviewed applications.

Community. Educate the community on the various means of communication to ensure efficient and effective outreach and promotion of our schools: Focus on Education newsletter went out to entire community inviting all to attend the December 4 Board of Education meeting.

Facilities. Monitor and evaluate the five-year facility, safety and technology plans to ensure appropriate improvements and maintenance of buildings, grounds and infrastructure: Facilities Committee met earlier in the evening and reviewed five-year facilities plan and discussed the high school facility and needed improvements.

Board of Education. *Develop expectations and goals for professional development for Board of Education members:* Recently had the highest attendance of Board membership at CABA/CAPSS Convention and new Board of Education workshop.

2. Business Manager's Report

Mrs. McCalla reviewed the Executive Budget Summary as of November 30, 2019. Fluctuations of note: Special Education: encumbrances entered as student needs are determined.

Admin Services: Greater purchasing in Admin Tech Equipment and purchased services last year to date vs. this year to date. Errors in account coding were identified and corrected by year end. Spending this year is reflected in Instructional Programs.

Year To Date Revenue Report

	2018-2019 Received	2019-2020 Received YTD
Town of Old Lyme	\$26,343,259	\$9,668,441
Town of Lyme	\$6,748,520	\$2,308,433

Mrs. McCalla reviewed the Contingency Maintenance Report, which reflected \$8,243 in new expenditures: \$3,000 for boiler repairs at Lyme Consolidated School and the balance, \$5,243, for upgraded radio systems at each school. The balance of this account is now at \$134,212.

IV. Educational Presentation

1. Presentation by Milone and MacBroom on Artificial Playing Surfaces

Kevin Fuselier from Milone and MacBroom, the engineering firm who is assisting with the multipurpose playing surface project, gave a presentation on this proposal. A copy of the presentation is attached to these minutes for informational purposes.

Discussion/questions from the Board and community followed the presentation and included the following subjects: irrigation needs of site; potential for recycling of material after end of use; quality of turf fields as compared to older versions; surrounding towns that have multipurpose fields; issues with installation; effect on geothermal system located under the proposed site; drainage of water; loss of infill over time; composition of multipurpose field and effect on wells and environment; cleaning of field; concussions on turf field vs. grass field; safety studies; improper uses of a multipurpose field that would void the warranty; initial installation cost vs. replacement cost; aromas emanating from fields during hot weather; benefits of padding; and expected annual maintenance costs.

Dr. Goulding addressed budgeting for facilities projects, i.e., usage of undesignated fund to fund larger projects so that there are not big increases in the operating budget and to avoid bonding projects.

V. Chairman & Board Report

Mrs. Linderman asked the Board members to contact her on their preference for committee assignments.

VI. New Business

1. 2020-2021 School Calendar

Mr. Neviaser reviewed a draft of the 2020-2021 school calendar. The Board reviewed and made comments. Board action on the calendar will take place at the January 8, 2020 Board meeting.

2. Policy Review

Policy 5141.214 Student Sunscreen Use – this was a second reading of this policy.

MOTION: Mrs. Shoemaker made a motion, which was seconded by Dr. Powell St. Louis, to approve Policy 5141.214 Student Sunscreen Use as presented.

VOTE: the Board voted unanimously in favor of the motion.

Policy 5123.1 Promotion/Acceleration/Retention

Mr. Neviaser explained that the Policy Committee combined several policies into one, thus creating this newly worded policy, which was recommended by CABA during their review of the district's policy book. The Board reviewed and Mr. Neviaser made one change to the statewide assessment section.

Policy 6146.11 Class Rank and Weighted Grades

Mr. Neviaser explained that the Policy Committee combined two policies into one, thus creating this newly worded policy, which was recommended by CABA during their review of the district's policy book. Changes were recommended in the section on calculating grade point average so that the wording was the same as what appears in the parent-student handbook.

3. Participation in Sports Research Project

Mr. Neviaser reported that the district received a request from a community member who has developed a sports app (described below) and is seeking approval to beta test it on LOLHS students.

Stride is a Sport Supervision Platform. It's designed to increase performance by mitigating the different types of risk that can occur in high school and college sports. Coaches create and log practices. Athletes set and evaluate personal goals. A sport supervisor (the AD, someone overseeing coaches) monitors coach-athlete interaction. The platform mitigates risk by aligning expectations: what users expect from themselves and each other. It provides a data trail that the school will be able to use not only to improve on-field performance, but also resolve disputes. The platform will even produce an Athlete Transcript, similar to a Student Transcript.

As a tester, LOLHS will directly influence any necessary design changes. Other organizations currently testing the platform include Hotchkiss School, Dublin School, Dartmouth College and Bryant University. We're also working with sports clubs in New York City and Vermont.

We've built our database according to FERPA guidelines. We're stilling developing the marketing website and drafting our privacy policy, which we expect feedback from testing to influence. User information belongs to the account holding organizations (identical to PowerSchool and other EdTech solutions). I haven't actually come across another athletic platform that meets FERPA guideline in how it stores and secures data.

The Board discussed this request. There was Board concern over this request due to many factors, most importantly of which was the time commitment for coaches. The Board also cited other concerns, i.e., that this beta test did not entail research but rather was a development of a product; it did not solve a problem such as previous in-district research done on dyslexia; the possibility of setting a standard and then opening up doors for similar requests; and the lack of a benefit to the district.

It was clarified that the coaches could still utilize this product should they have an interest (if it met the district criteria and the coaches were given administrative approval) even if the Board of Ed did not approve this request.

MOTION: Dr. Goulding made a motion, which was seconded by Mr. Wilson, to approve the request for beta testing a sports app utilizing Lyme-Old Lyme High School students.

VOTE: the Board voted unanimously against the motion. Motion failed 9-0.

4. Refunding of Bonds

Mrs. McCalla reported that Hilltop Securities, Inc. (formerly Southwest Financial), the company who handles the district's bonds, has been following potential refundings. At this time, the 2009 and 2012 bonds could be refunded. Potential budgetary savings are estimated at \$210,000.00. In order to maximize savings, this transaction would need to close before the next (2/15/2020) debt service payment date. Approval of a resolution by the board is required to move forward with this.

MOTION: Dr. Goulding made a motion, which was seconded by Mrs. Shoemaker, to approve the following resolution:

**RESOLUTION WITH RESPECT TO THE AUTHORIZATION, ISSUANCE AND
SALE OF NOT EXCEEDING \$8,000,000 REGIONAL SCHOOL DISTRICT NO. 18
GENERAL OBLIGATION REFUNDING BONDS**

RESOLVED:

Section 1. Not exceeding \$8,000,000 General Obligation Refunding Bonds (the "Refunding Bonds") of Regional School District No. 18, Connecticut (the "District") may be issued in one or more series and in such principal amounts as the District Chairman and District Treasurer shall determine to be in the best interests of the District for the purposes of achieving net present value savings and/or to restructure debt service payments. The Refunding Bonds are hereby authorized to refund all or any portion of any one or more series of the District's outstanding General Obligation Refunding Bonds, Issue

of 2009, General Obligation Bonds, Issue of 2011, General Obligation Bonds, Issue of 2012, or any other series of the District's outstanding General Obligation Bonds (the "Refunded Bonds"). The Refunding Bonds shall be issued and sold either in a negotiated underwriting or a competitive offering, and at such time or times as the District Chairman and District Treasurer shall determine to be most opportune for the District. If the Refunding Bonds are sold in a negotiated underwriting, the District Chairman and District Treasurer shall appoint the managing underwriter. Each series of Refunding Bonds shall mature in such amounts and on such date or dates as shall be determined by the District Chairman and District Treasurer provided that the Refunding Bonds shall mature in compliance with the provisions of the General Statutes of Connecticut, as amended. The Refunding Bonds shall bear interest payable at such rate or rates as shall be determined by the District Chairman and District Treasurer. The Refunding Bonds shall be executed in the name and on behalf of the District by the manual or facsimile signatures of the District Chairman and District Treasurer, bear the District seal or a facsimile thereof, and be approved as to their legality by Robinson & Cole LLP, Bond Counsel. The Refunding Bonds shall be general obligations of the District and its member towns of Lyme and Old Lyme, Connecticut ("Member Towns") and each of the Refunding Bonds shall recite that every requirement of law relating to its issue has been duly complied with, that such bond is within every debt and other limit prescribed by law, and that the full faith and credit of the District and the Member Towns are pledged to the payment of the principal thereof and the interest thereon. The aggregate denominations, form, details, and other particulars thereof, including the terms of any rights of redemption and redemption prices, the designation of the certifying, paying, registrar and transfer agent, shall be subject to the approval of the District Chairman and District Treasurer. The net proceeds of the sale of the Refunding Bonds, after payment of underwriter's discount and other costs of issuance, shall be deposited in an irrevocable escrow account in an amount sufficient to pay the principal of, interest and redemption premium, if any, due on the Refunded Bonds to maturity or earlier redemption pursuant to the plan of refunding. The District Chairman and District Treasurer are authorized to appoint an escrow agent and other professionals and to execute and deliver any and all escrow, investment and related agreements necessary to provide for such payments on the Refunded Bonds and to provide for the transactions contemplated hereby. The District Chairman and District Treasurer, are authorized to prepare and distribute preliminary and final Official Statements of the District for use in connection with the offering and sale of the Refunding Bonds, and they are hereby authorized to execute and deliver on behalf of the District a Bond Purchase Agreement, a Continuing Disclosure Agreement, a Tax Regulatory Agreement and such other agreements and documents necessary or desirable for the issuance of the Refunding Bonds and the payment of the Refunded Bonds.

Section 2. This Resolution shall be effective until June 30, 2020.

VOTE: the Board voted unanimously in favor of the motion.

VII. Old Business

1. Closing of LOLHS Project

The district is still waiting for the final change order from the State so there is no action required on this agenda item.

2. Report of Committees:

- a. *Facilities*. Dr. Goulding reported that this committee met earlier in the evening where discussion centered on the tennis court replacement project and high school upgrades. A review of the five-year facilities plan also took place.
- b. *Finance*. No report.
- c. *Communications*. No report.
- d. *Policy*. No report.
- e. *LEARN*. Mrs. Leonardo reported that she can no longer serve as the Board rep to LEARN. Mrs. Linderman asked for a volunteer to serve.
- f. *LOL Prevention Coalition*. Mrs. Shoemaker reported that she and Jean Wilczynski recently took part in a grant renewal process at the Lymes Youth Service Bureau. Dr. Powell St. Louis reported on a presentation on alcohol that took place but was not well attended. Follow-up discussion centered on ways to get the community more involved with important issues taking place in the towns.

VIII. Correspondence

Dr. Goulding reported on an email from a community member requesting a change to the policy for charging townspeople for using the facilities when they are not causing additional costs to the district (building already open and custodian on duty).

IX. Executive Session

There was no need for an executive session.

X. Adjournment

The regular meeting adjourned at 9:21 p.m. upon a motion by Dr. Goulding and a second by Mrs. Shoemaker.

Respectfully submitted,

Steven Wilson, Secretary

Regional School District No. 18

Lyme Street Campus

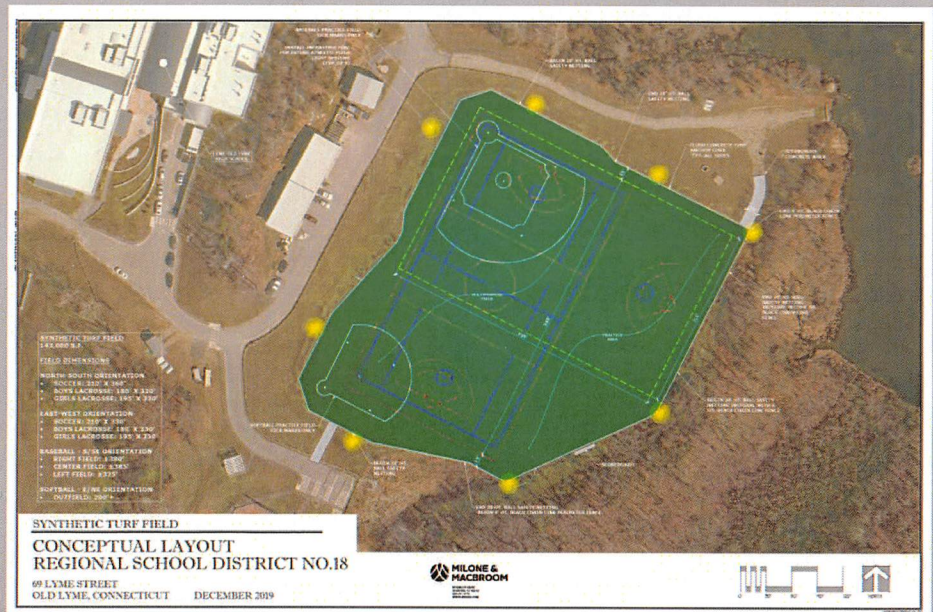
Multipurpose Field

BOARD OF EDUCATION MEETING

DECEMBER 4, 2019



MILONE & MACBROOM



AGENDA

- Athletic Fields Ad Hoc Committee
- Existing Multipurpose Fields
 - Investigation and Analysis
- Athletic Fields Ad Hoc Committee Recommendation
- Project Considerations
- Synthetic Turf
- Project Budget
- Next Steps & Schedule

ATHLETIC FIELDS AD HOC COMMITTEE CHARTER

Evaluate the three multi-purpose athletic fields and develop a Board of Education recommendation for facility improvements which best serves the long-term needs of the school district and community.



AD HOC ATHLETIC FIELD COMMITTEE MEMBERS

- David Brown Lyme BOF
- Donald Bugbee OL P&R Director
- Rick Caulkins Facilities Committee
- Glenn Fergione Asst. Dir. of Fac.
- Kevin Fuselier MMI Lead Designer
- Brian Greenho Lacrosse Club
- David Kelsey OL BOF
- Rich Goulding BOE
- Hilda Heck Athletic Director
- Nancy Lucas BOE
- Phil Neaton Facilities Committee
- Ian Neviasser Superintendent
- Patrick Pryor Parent
- John Rhodes Dir. Of Fac. & Tech.
- Tom Risom OL Zoning & Fire Chief
- Michelle Roche BOE
- Tom Sherer Facilities Committee
- Jason Thornton Lyme P&R Director
- Marc Vendetti HS Boys Soccer Coach
- Jean Wilczynski BOE
- Stacy Winchell BOE

EXISTING MULTIPURPOSE FIELDS



Track Field

- Soccer and Lacrosse
- Irrigated
- Under Field Drainage
- HS/MS Physical Education

Soccer/Lacrosse Field

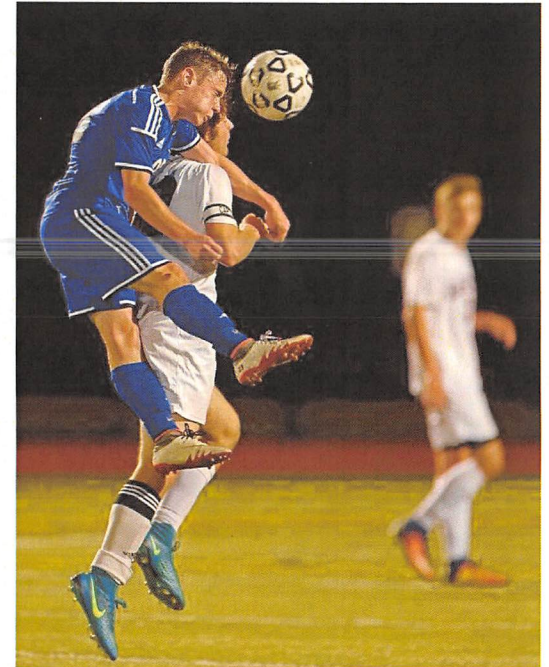
- Soccer and Lacrosse
- Irrigated
- HS/MS Physical Education

Practice Field

- Practice field for Soccer, Lacrosse and Baseball
- Not Irrigated
- HS Physical Education

CURRENT ATHLETIC FIELD CHALLENGES

- Insufficient irrigation water supply
- Pesticide ban
- Usable field space during early spring
- Repair of field damage following lacrosse season
- Summer month shut down
- 'Regrow' of practice field following each summer season
- Baseball and softball practice areas
- Facilities staff workload and field maintenance costs
- Maintenance interruptions in physical education programs
- Weather dependent use

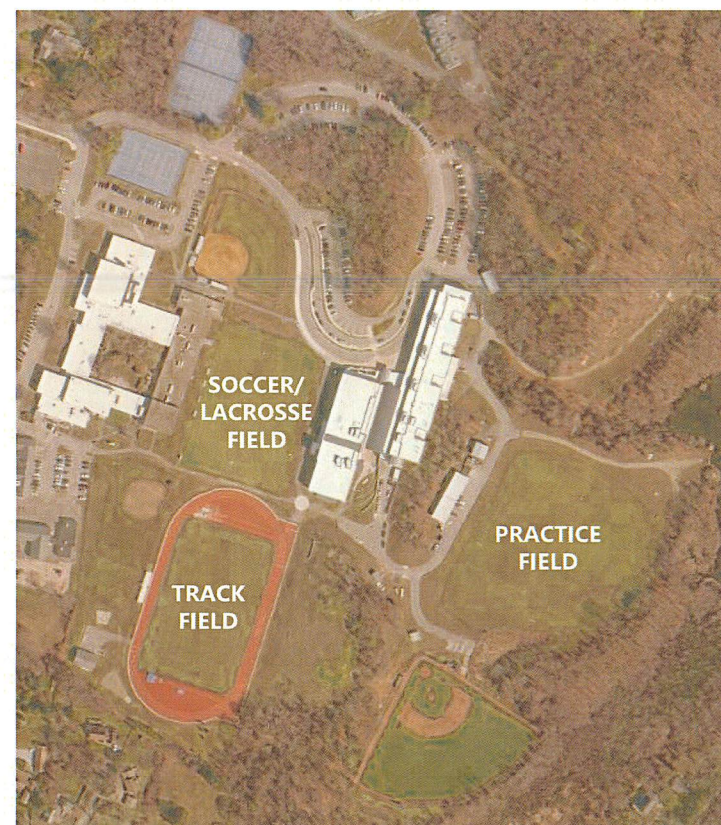


ATHLETIC PROGRAM CONFLICTS REMEDIED WITH ALL-WEATHER MULTIPURPOSE FIELD

- Spring Sports
 - Starts 3rd weekend of March
 - Fields too wet and muddy for practices 1-2 weeks beginning of Spring season
 - Rain closes fields
 - Varsity, JV and MS baseball – one baseball field
 - Varsity and MS softball – one softball field (CS field used by track team)
 - Varsity & JV on practice field – minimize damage to track field & track team usage
- Summer all fields shut down due to lack of water
- Semi finals and finals played on artificial turf
- Soccer/lacrosse - School district must have a backup game field if our fields are too wet
- Fall Sports
 - Practice field grass is dead due to lack of water

MULTIPURPOSE FIELD USAGE

	Track Field	Soccer/Lacrosse Field	Practice Field
FALL SPORTS (Aug 25-Nov 18)			
High School Boys Soccer	12	2	12
High School Girls Soccer	8	12	0
Middle School Boys Soccer	0	2	8
Middle School Girls Soccer	0	2	8
High School PE	0	30	15
Middle School PE	5	20	0
AVG PER WEEK	25	68	43
High School PE			60
Football* (only used once per season)	4		
TOTAL AVG HRS PER SEASON	304	816	576
SPRING SPORTS (Mar 18 - June 10)			
High School Boys Lacrosse	10	0	12
High School Girls Lacrosse	0	20	0
HS Baseball	0	0	15
Track & Field	0	0	5
Middle School Baseball	0	0	10
High School PE	0	30	15
Middle School PE	15	15	0
AVG PER WEEK	25	65	57
TOTAL AVG HRS PER SEASON	300	780	684
TOTAL AVG HRS PER YEAR	604	1596	1260



LIMITATIONS OF NATURAL GRASS

- Susceptible to Weather Conditions
 - Increase in Cancellation/Rescheduling Practices & Games
- Irrigation required to maintain healthy grass
- Limited Usage
 - For Good Quality Grass Fields – Max Usage is 15-20 Hours/Week
 - Synthetic Turf Used ± 50 Hours/Week (with lighting)
 - Rule of Thumb: 3 Grass Field = 1 Turf Fields



ANNUAL FIELD MAINTENANCE COSTS EXISTING FIELDS

	Baseball Field	Softball Field	Practice Field	Track Field	Soccer/ Lacrosse Field	Total
Total	\$3,208	\$1,319	\$11,228	\$30,585	\$27,283	\$73,624

*Total includes: Soil testing, liquid fertilizing, granular fertilizing, seeding/top dressing, slit seeding, deep tine aeration

Item	Baseball Field	Softball Field	Practice Field	Track Field	Soccer/ Lacrosse Field	Total
Mowing Hours (Maintenance Staff)	132	88	220	132	132	
Field Lining Set Up Hours	2	2	48	32	32	
Field Lining Maintenance/Year	8	8	40	40	40	
Infield Preps/Year	66	66				
Maintenance Hours Total	208	164	308	204	204	1088

FIELD MAINTENANCE

SYNTHETIC TURF MULTIPURPOSE FIELD

- Periodic grooming and sweeping
 - Towing vehicle required
- Weekly inspection by staff
- Annual inspection by synthetic turf vendor
- Depending on synthetic turf system, annual performance testing
- **Lower maintenance costs offset by replacement cost in 10 to 12 years**
- Not required: mowing, fertilization, line striping



Field Groomer



Field Sweeper & Magnet

ATHLETIC FIELDS ANALYSIS

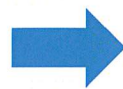
- Site examination by hydrologist
- Irrigation needs versus irrigation supply
- Field usage
- Ad Hoc Committee survey
- Athletic field test pits
- Existing maintenance costs and staffing requirements
- Soccer and Lacrosse layouts on each existing multi purpose field

IRRIGATION DEMAND VERSUS WATER SUPPLY

- Track and soccer/lacrosse fields irrigated using Lyme Street campus potable water system
- Lyme Street Campus water system supplies:
 - High School, Middle School, Center School, Town Hall, Fire House, LYSB & OL Historic Society
- Added new well Winter 2017 due to diminishing well field yield
- Lyme Street campus water system output = 100,296 gallons/week
- Existing irrigation system demand (1" water/week)
 - Track + soccer/lacrosse fields = 106,072 gallons/week
- Estimated irrigation system demand (1" water/week)
 - Track + soccer/lacrosse + practice fields = 195,208 gallons/week
- Water purchases Summer 2015 & 2016 to keep up with irrigation demands

AD HOC COMMITTEE RECOMMENDATION

- Install a dedicated irrigation system water supply – **Completed 2019**
- Install artificial turf on practice field
 - Configuration to accommodate Soccer, Lacrosse, Baseball, & Softball



WHY ARTIFICIAL TURF ON PRACTICE FIELD

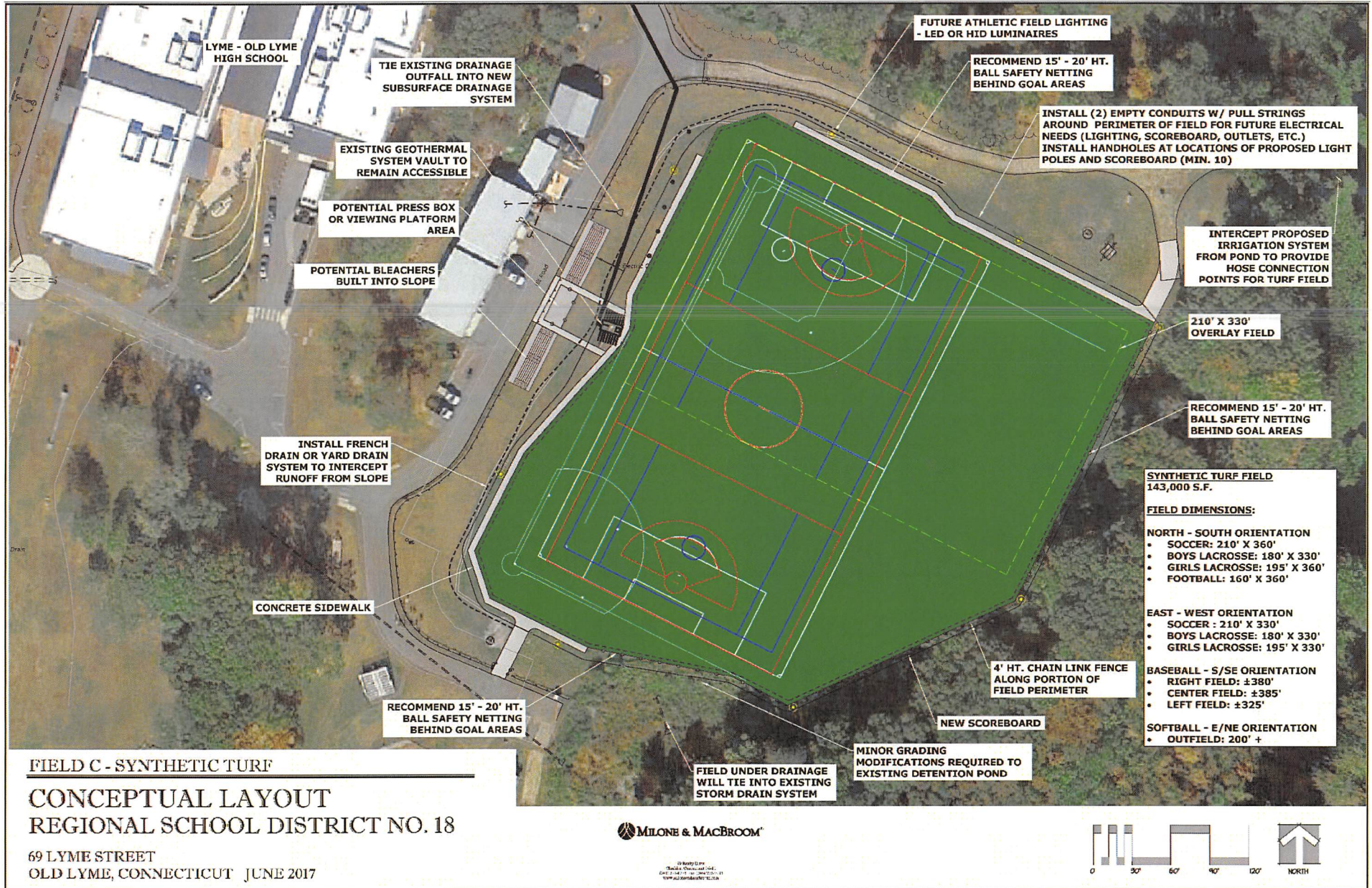
- Minimizes irrigation demands providing long term Lyme Street Campus water supply protection
- Addresses all athletic program field challenges:
 1. Simultaneous athletic program usage
 2. Weather independent
 3. Early spring season use
 4. Baseball and softball practice areas
 5. Reduces field maintenance impact on physical education program
 6. Preserves community investment in track and soccer/lacrosse fields
 7. Preserves track and soccer/lacrosse field grass
 8. Size limitations of the soccer/lacrosse field
- Athletic field available during winter and summer seasons
- Expands athletic field usage to outside groups
- Reduces overall maintenance burden
 - Eliminates need to 'regrow' practice field grass at the end of each Summer
 - Protects grass fields during early spring usage



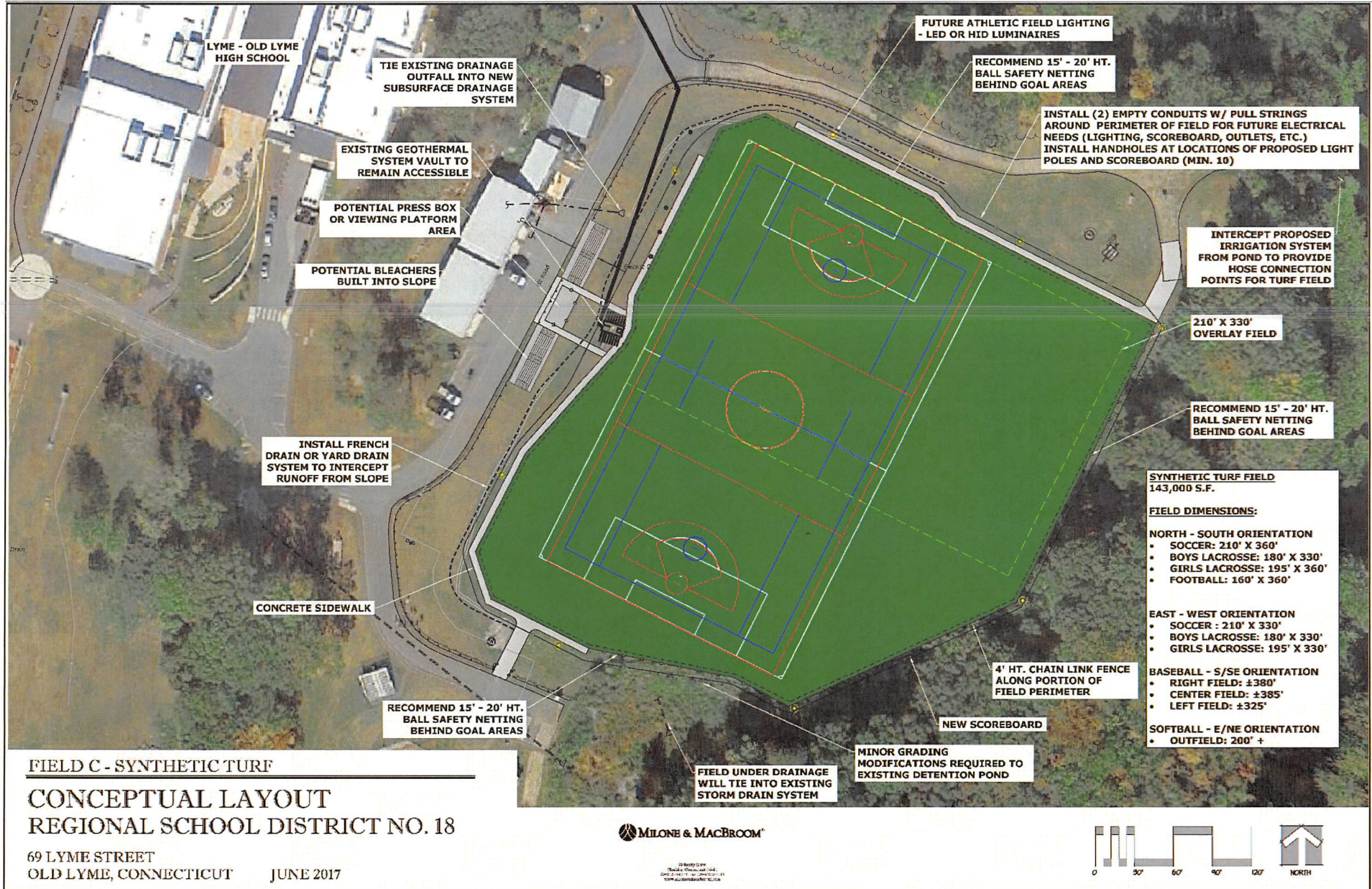
EXISTING CONDITIONS



CONCEPT PLAN



CONCEPT PLAN



CONCEPT PLAN



FIELD C - SYNTHETIC TURF

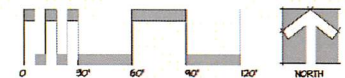
CONCEPTUAL LAYOUT REGIONAL SCHOOL DISTRICT NO. 18

69 LYME STREET
OLD LYME, CONNECTICUT

JUNE 2017

MILONE & MACBROOM

10 Route 1
Milton, Massachusetts 02146
Tel: 617.452.1100
Fax: 617.452.1101
www.miloneandmacbroom.com



PROJECT CONSIDERATIONS

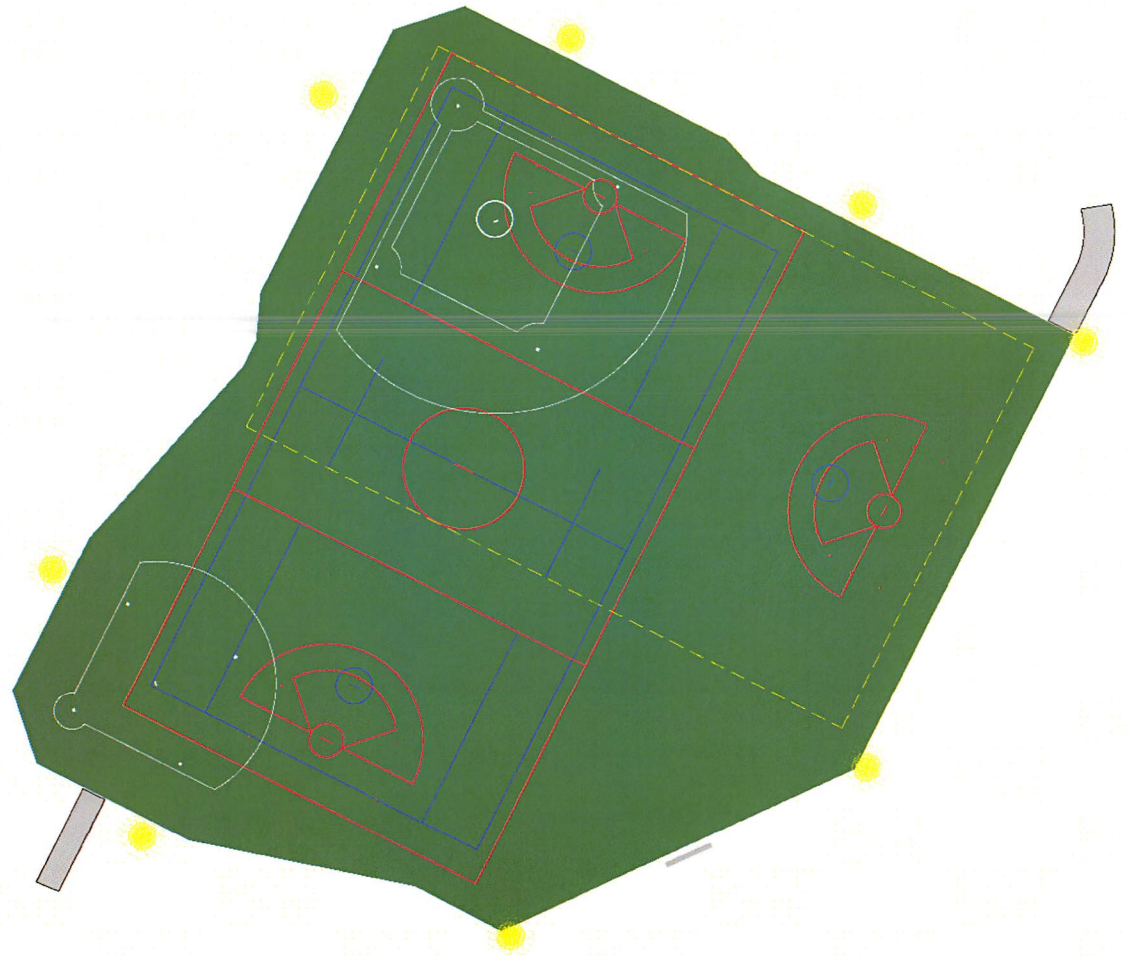
Project Scope

- Synthetic Turf Multipurpose Athletic Field
 - Lacrosse
 - Soccer
 - Baseball
 - Softball
 - Physical Education
- Perimeter Treatments
 - Chain Link Fencing
 - Ball Safety Netting
- Field Access
 - Walkway and Driveway Improvements

Project Considerations

Not in Current Scope

- Scoreboard
- Spectator Improvements
- Lighting (Infrastructure only)



SCHEMATIC DESIGN

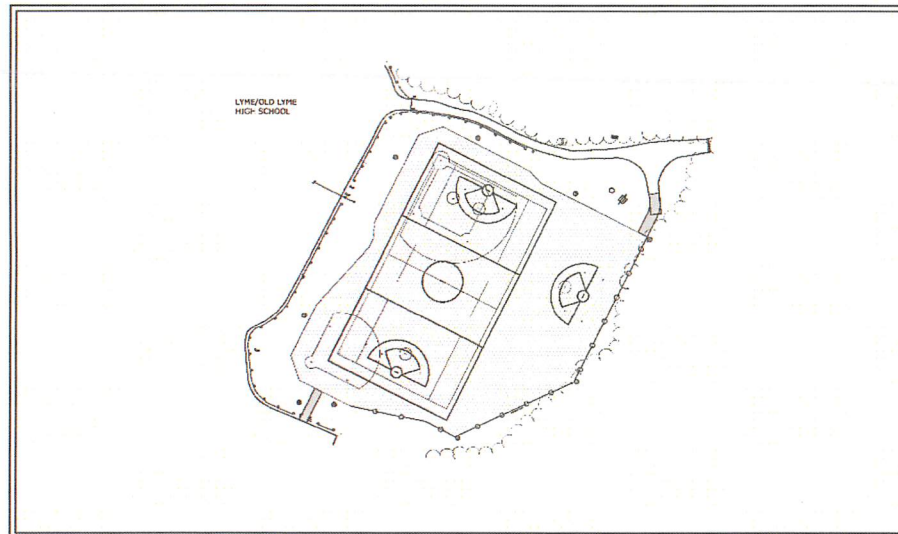
SYNTHETIC TURF FIELD LYME - OLD LYME HIGH SCHOOL

69 LYME STREET
OLD LYME, CONNECTICUT

SCHEMATIC DESIGN
JULY 26, 2017

GENERAL NOTES

1. TOPOGRAPHIC INFORMATION IS BASED ON A SURVEY CONFORMING TO TOPOGRAPHIC ACCURACY 1:2 BY MILONE & MACBROOM, INC., TAKEN FROM A MAP ENTITLED "TOPOGRAPHIC SURVEY OF LYME HIGH SCHOOL PLAT 1 FOR USE OF A SYNTHETIC TURF FIELD 69 LYME STREET OLD LYME, CONNECTICUT", DATED FEBRUARY 24, 2017.
2. INFORMATION REGARDING THE LOCATION OF EXISTING UTILITIES HAS BEEN BASED UPON AVAILABLE INFORMATION AND MAY BE INCOMPLETE. THE LOCATION OF ALL EXISTING UTILITIES SHOULD BE CONFIRMED PRIOR TO BEGINNING CONSTRUCTION. CALL "CALL BEFORE YOU DIG", 1-800-485-4443, AT THE TIME OF LOCATIONS THAT DO NOT MATCH THE OFFICIAL OR HORIZONTAL CONTROL SHOWN ON THE PLANS SHALL IMMEDIATELY BE BROUGHT TO THE ATTENTION OF THE ENGINEER FOR RESOLUTION.
3. MILONE & MACBROOM, INC. ACCEPTS NO RESPONSIBILITY FOR THE ACCURACY OF MAPS AND DATA WHICH MAY BE SUPPLIED BY OTHERS.
4. ALL DIMENSIONS AND ELEVATIONS SHALL BE VERIFIED IN THE FIELD PRIOR TO CONSTRUCTION. ANY DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER.
5. ALL STORM DRAIN PIPE SHALL BE HIGH DENSITY POLYETHYLENE PIPE (HDPE) UNLESS OTHERWISE INDICATED.
6. ALL PROPOSED CONTIGUOUS AND SHOT TYPIFICATIONS INDICATE "TYPICAL" GRASS.
7. ALL CONSTRUCTION METHODS AND METHODS SHALL CONFORM TO THE TOWN OF LYME/OLD LYME REQUIREMENTS AND TO THE APPLICABLE SECTIONS OF THE STATE OF CONNECTICUT DEPARTMENT OF TRANSPORTATION'S STANDARD SPECIFICATIONS FOR BRIDGES, EROSION, AND FACTORY CONSTRUCTION, EIGHTH EDITION AND ADDENDUMS.
8. THE PLANS REQUIRE A CONTRACTOR'S WORKING KNOWLEDGE OF LOCAL, MUNICIPAL, WATER COMPANY, AND STATE CODES FOR UTILITY SYSTEMS. ANY CONFLICTS BETWEEN FEDERAL, STATE, AND LOCAL REQUIREMENTS SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER PRIOR TO THE COMMENCEMENT OF WORK. THE ENGINEER WILL NOT BE HELD LIABLE FOR COSTS INCURRED TO THE PROJECT OR CORRECT WORK WHICH DOES NOT CONFORM TO LOCAL CODE.
9. ALL FUEL, OIL, PAINT, OR OTHER HAZARDOUS MATERIALS SHOULD BE STORED IN A SECONDARY CONTAINER AND REMOVED TO A LOCATED STORAGE AREA WITH AN IMPROVED FLOOR DURING NON-WORK HOURS.



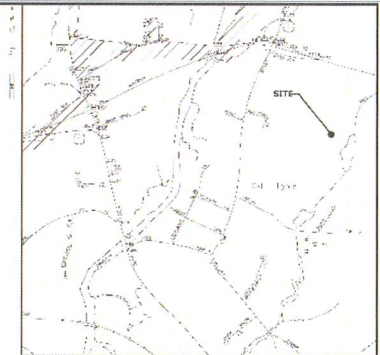
PROJECT SITE VICINITY MAP:



PREPARED BY:

MILONE & MACBROOM

99 Rte 17 West
Cheshire, Connecticut 06019
(203) 273-8777 Fax (203) 273-9733
www.miloneandmacbroom.com



LOCATION MAP:



PREPARED FOR:

REGION 13
LYME - OLD LYME PUBLIC SCHOOLS
49 LYME STREET
OLD LYME, CONNECTICUT 06371

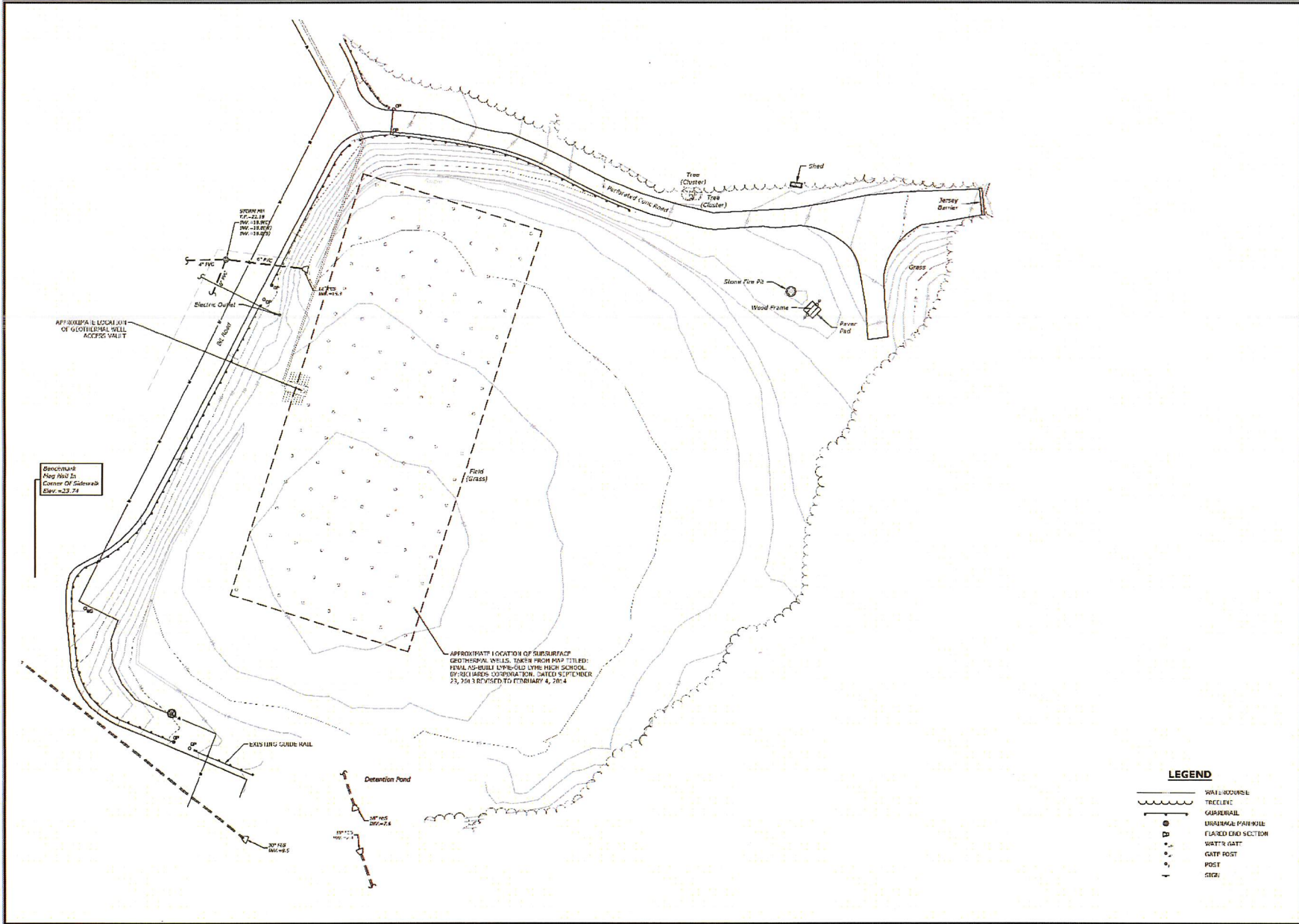
LIST OF DRAWINGS


NO.	NAME	TITLE
00	--	TITLE SHEET
01	EX	EXISTING CONDITIONS
02	LA	SITE PLAN- LAYOUT
03	GU	SITE PLAN- GRADING AND UTILITIES
04	SD	TYPICAL SITE DETAILS



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SCHEMATIC DESIGN





MILONE & MACBROOM®
Civil & Mechanical Design
80 Lyme Street
Old Lyme, Connecticut 06377
www.milone-macbroom.com

DESCRIPTION	DATE	BY

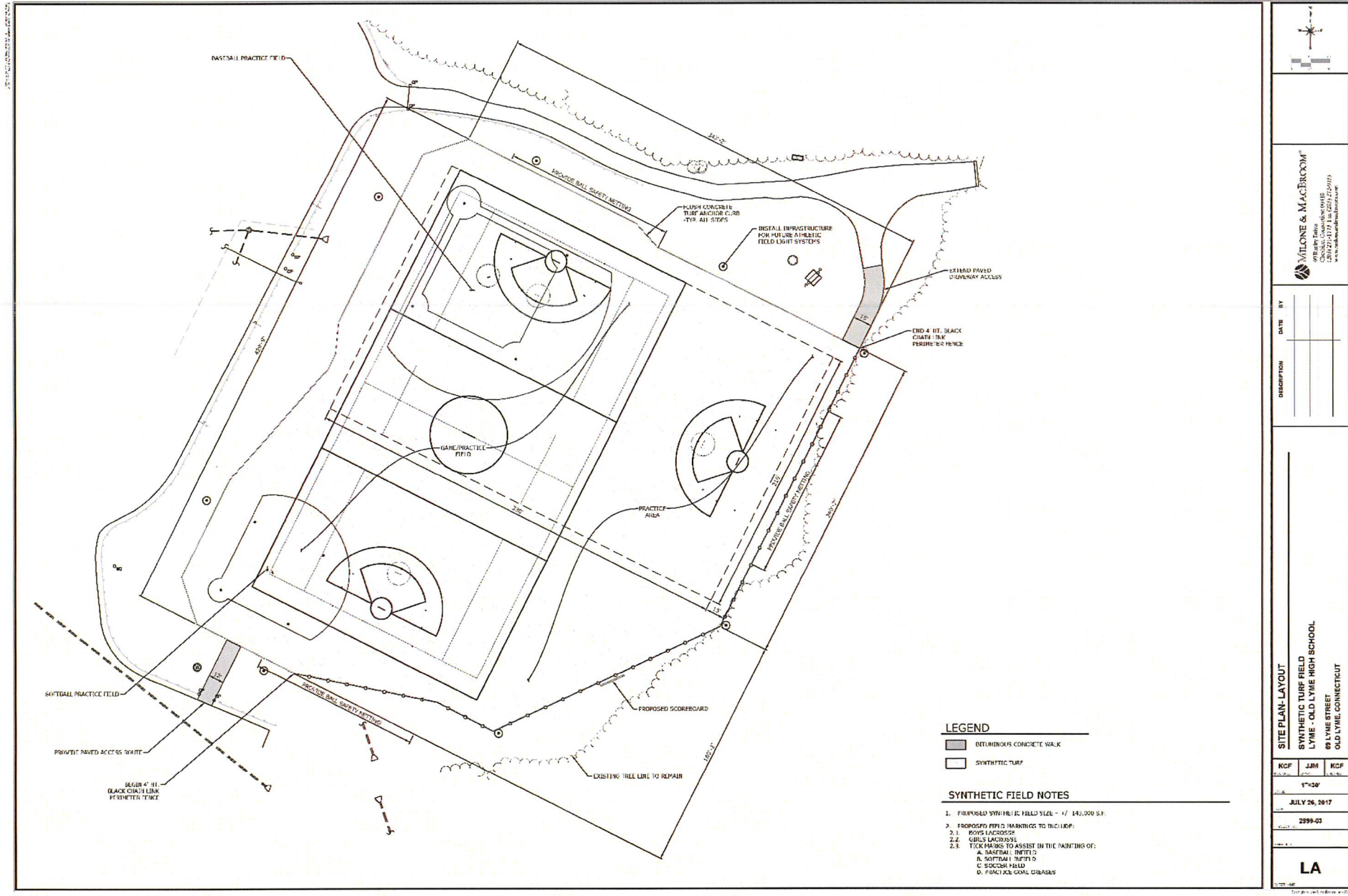
EXISTING CONDITIONS

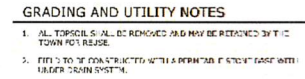
SYNTHETIC TURF FIELD
LYME - OLD LYME HIGH SCHOOL
80 LYME STREET
OLD LYME, CONNECTICUT

KCF	JM	KCF
2014-01-01	2014-01-01	2014-01-01
1"=30'		
JULY 26, 2017		
2999-03		

EX

SCHEMATIC DESIGN





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Cazadero, California 94622
(805) 271-1775 Fax (805) 271-0115
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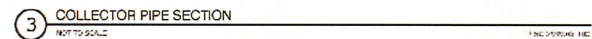
[illegible]

SITE PLAN - GRADING AND UTILITIES
SYNTHETIC TURF FIELD
LYME - OLD LYME HIGH SCHOOL
69 LYME STREET
OLD LYME, CONNECTICUT

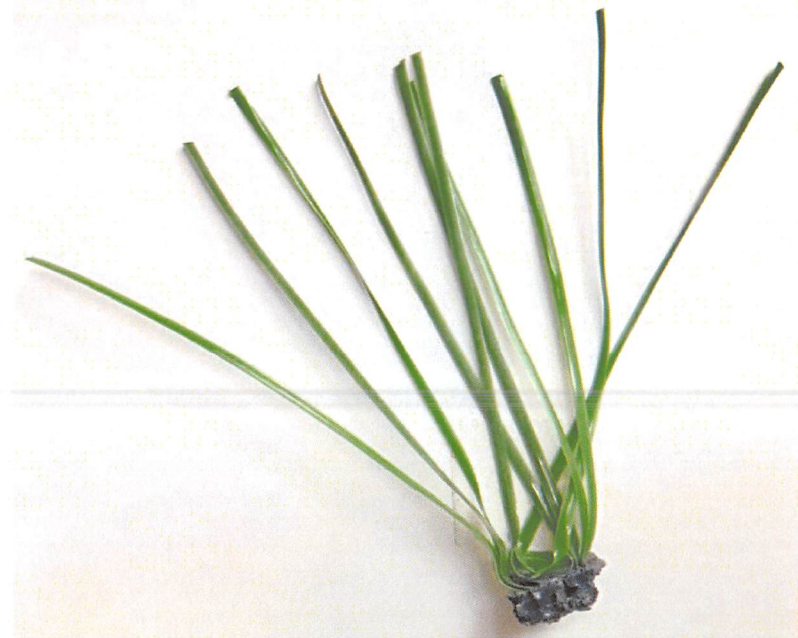
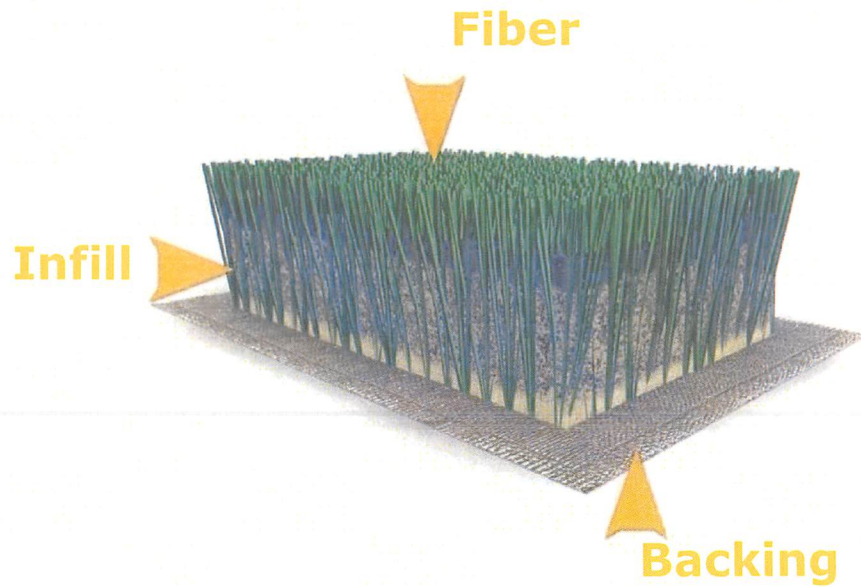
KCF	JJM	KCF
1-10-1998	1-10-1998	1-10-1998
1 st 30'		
JULY 28, 2017		
2999-03		

GU

Journal of Management Education 36(7) 809-824



MATERIALS – SYNTHETIC TURF “CARPET”



MATERIALS - INFILL



INFILL MATERIAL OPTIONS

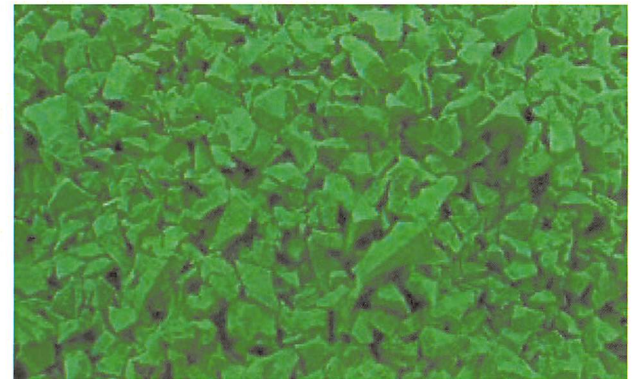
Crumb (SBR) Rubber

- Pros:
 - Proven infill
 - Resilient (Does not require a shock pad)
 - Low cost
 - Can be color coated green for additional cost
- Cons:
 - Public perception
 - Post-consumer product
 - Contributes to elevated temperatures



EPDM Rubber

- Pros:
 - Resilient (Does not require a shock pad)
 - Non-recycled
 - Can come in a variety of colors
- Cons:
 - Similar composition to Crumb Rubber
 - High quality and/or special colors = high cost



TPE Plastic

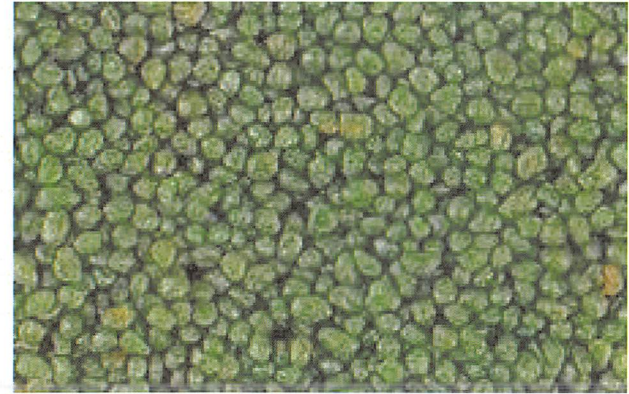
- Pros:
 - Non-abrasive
 - Closely resembles playability of rubber Infill
 - Non-recycled
- Cons:
 - High quality = high cost



INFILL MATERIAL OPTIONS

Coated Sand

- Pros:
 - 16-year warranty
 - Fast surface
- Cons:
 - Very firm and abrasive feel
 - High cost



Sand (Silica)

- Pros:
 - Infill can be repurposed at time of future replacement
 - Low cost
- Cons:
 - High cost for dense-fiber carpet
 - Firm



Cork & Coconut Husk Blends

- Pros:
 - Cooler temperature
 - Natural material
- Cons:
 - Prone to freezing
 - Irrigation required to maintain moisture content
 - Requires periodic replenishment
 - Increased maintenance cost



INFILL MATERIAL OPTIONS

Walnut Shells

- Pros:
 - Natural material
 - Fast surface
- Cons:
 - Allergy concerns
 - Very firm and abrasive feel
 - High cost
 - Limited local installations

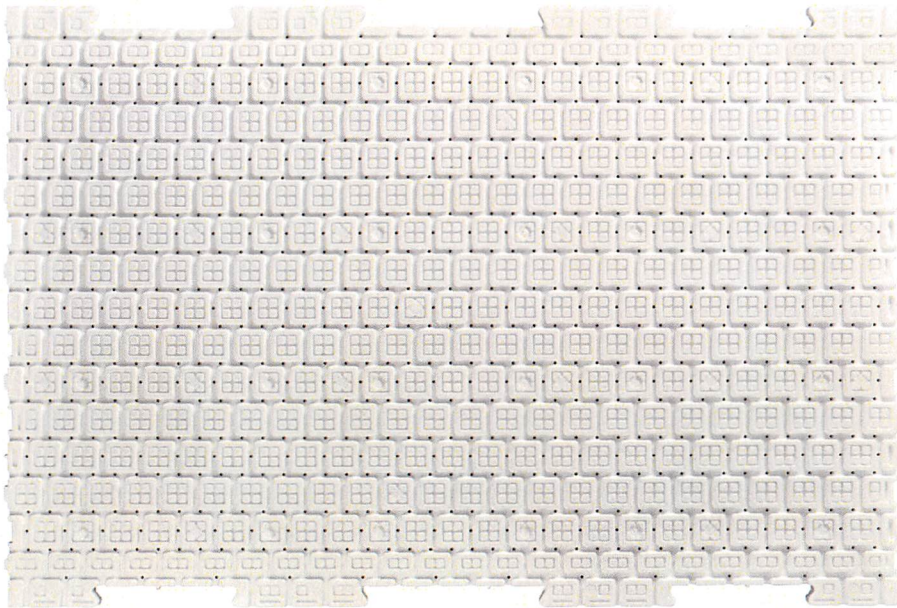
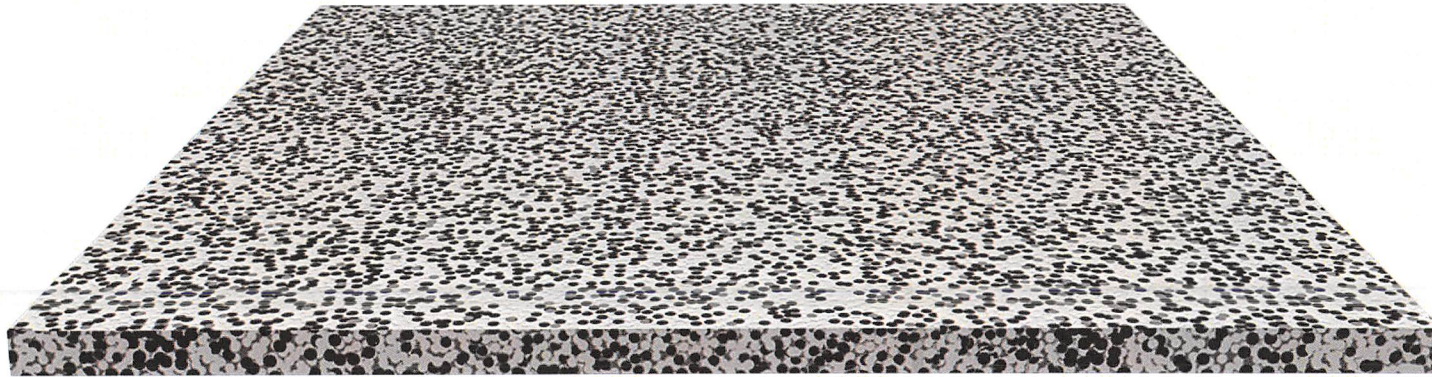


Wood Derivative

- Pros:
 - Natural material
 - Low cost
- Cons:
 - Limited local installations
 - Proprietary

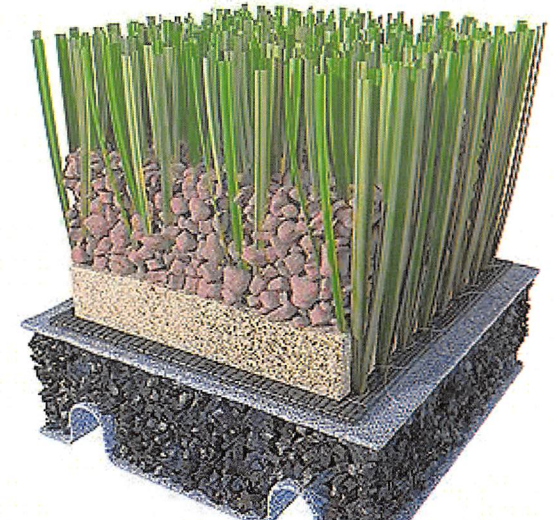
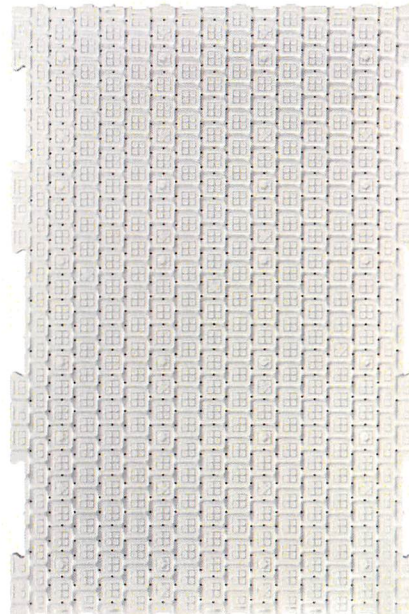


MATERIALS – SHOCK/DRAINAGE PAD



MATERIALS - SHOCK/DRAINAGE PAD

- Improved Drainage
- Resilient Shock Absorption
- Added Player Safety
- Ease of Installation



PROPOSED BUDGET

- Artificial turf practice field
 - Town of Old Lyme commission approvals and associated design details \$23,800 – BOE approved and contracted
 - Design, bidding and construction administration \$64,500
 - Turf field installation with crumb rubber infill and no options \$2,280,000.

***Alternate infill material additional cost range \$350,000 - \$500,000.**

PROJECT FUNDING PLAN

- Utilize School District's Undesignated Fund
- Current balance: **\$1,773,157**
- School district can reserve up to 1%/fiscal year
- Projected balance 2021: **\$2,500,000**

NEXT STEPS

- Ad Hoc Committee Meeting(s) to
Discuss Turf and Infill Options December 2019
- Multipurpose Field Community Forum(s) Winter 2019/2020
- Inlands Wetlands Commission Application Spring 2020
- Planning and Zoning Commission Application Spring 2020
- Final Design Fall 2020
- Bidding Winter 2021
- Award and Construction (Earliest) Summer 2021

QUESTIONS



MILONE & MACBROOM