



Commonwealth of Massachusetts
Title 5 Official Inspection Form
 Subsurface Sewage Disposal System Form - Not for Voluntary Assessments

Owner information is required for every page.

Wixon School, 901 MA-134
 Property Address
 Town of Dennis
 Owner's Name
 Dennis MA 02660 April 9, 2024
 City/Town State Zip Code Date of Inspection

Inspection results must be submitted on this form. Inspection forms may not be altered in any way. Please see completeness checklist at the end of the form.

Important: When filling out forms on the computer, use only the tab key to move your cursor - do not use the return key.



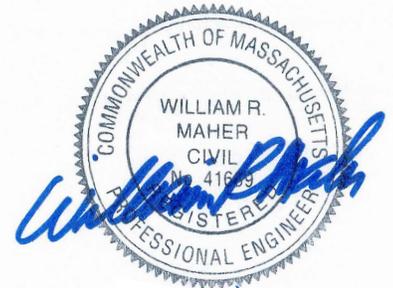
A. Inspector Information

William R. Maher, PE
 Name of Inspector
 Nitsch Engineering
 Company Name
 2 Center Plaza, Suite 430
 Company Address
 Boston MA 02108
 City/Town State Zip Code
 617-338-0063 SI851
 Telephone Number License Number

B. Certification

I certify that: I am a DEP approved system inspector in full compliance with Section 15.340 of Title 5 (310 CMR 15.000); I have personally inspected the sewage disposal system at the property address listed above; the information reported below is true, accurate and complete as of the time of my inspection; and the inspection was performed based on my training and experience in the proper function and maintenance of on-site sewage disposal systems. After conducting this inspection I have determined that the system:

- 1. Passes
- 2. Conditionally Passes
- 3. Needs Further Evaluation by the Local Approving Authority
- 4. Fails



William R. Maher
 Inspector's Signature
 July 24, 2024
 Date

The system inspector shall submit a copy of this inspection report to the Approving Authority (Board of Health or DEP) within 30 days of completing this inspection. If the system has a design flow of 10,000 gpd or greater, the inspector and the system owner shall submit the report to the appropriate regional office of the DEP. The original form should be sent to the system owner and copies sent to the buyer, if applicable, and the approving authority.

Please note: This report only describes conditions at the time of inspection and under the conditions of use at that time. This inspection does not address how the system will perform in the future under the same or different conditions of use.



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C. Inspection Summary

Inspection Summary: Complete 1, 2, 3, or 5 and all of 4 and 6.

1) System Passes:

I have not found any information which indicates that any of the failure criteria described in 310 CMR 15.303 or in 310 CMR 15.304 exist. Any failure criteria not evaluated are indicated below.

Comments:

2) System Conditionally Passes:

One or more system components as described in the "Conditional Pass" section need to be replaced or repaired. The system, upon completion of the replacement or repair, as approved by the Board of Health, will pass.

Check the box for "yes", "no" or "not determined" (Y, N, ND) for the following statements. If "not determined," please explain.

The septic tank is metal and over 20 years old* **or** the septic tank (whether metal or not) is structurally unsound, exhibits substantial infiltration or exfiltration or tank failure is imminent. System will pass inspection if the existing tank is replaced with a complying septic tank as approved by the Board of Health.

* A metal septic tank will pass inspection if it is structurally sound, not leaking and if a Certificate of Compliance indicating that the tank is less than 20 years old is available.

Y N ND (Explain below):



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C. Inspection Summary (cont.)

2) System Conditionally Passes (cont.):

- Checkboxes for pump chamber pumps, sewage backup, broken pipes, obstruction, and distribution box.

A video inspection was performed of a portion of the building's interior sanitary sewer lines as well as the exterior sewer lines servicing the septic system. A good portion of the building's interior sewer lines were found to be scaly, debris was found to be in the pipes and many sections of the sewer pipe were found to have rotted bottom sections.

- Checkboxes for pumping more than 4 times a year, broken pipes, and obstruction.

3) Further Evaluation is Required by the Board of Health:

- Conditions exist which require further evaluation by the Board of Health...

a. System will pass unless Board of Health determines in accordance with 310 CMR 15.303(1)(b) that the system is not functioning in a manner which will protect public health, safety and the environment:



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C. Inspection Summary (cont.)

- Cesspool or privy is within 50 feet of a surface water
Cesspool or privy is within 50 feet of a bordering vegetated wetland or a salt marsh

b. System will fail unless the Board of Health (and Public Water Supplier, if any) determines that the system is functioning in a manner that protects the public health, safety and environment:

- The system has a septic tank and soil absorption system (SAS) and the SAS is within 100 feet of a surface water supply or tributary to a surface water supply.
The system has a septic tank and SAS and the SAS is within a Zone 1 of a public water supply.
The system has a septic tank and SAS and the SAS is within 50 feet of a private water supply well.
The system has a septic tank and SAS and the SAS is less than 100 feet but 50 feet or more from a private water supply well**.

Method used to determine distance:

** This system passes if the well water analysis, performed at a DEP certified laboratory, for fecal coliform bacteria indicates absent and the presence of ammonia nitrogen and nitrate nitrogen is equal to or less than 5 ppm, provided that no other failure criteria are triggered. A copy of the analysis must be attached to this form.

c. Other:

Four horizontal lines for additional information.

4) System Failure Criteria Applicable to All Systems:

You must indicate "Yes" or "No" to each of the following for all inspections:

- Yes No Backup of sewage into facility or system component due to overloaded or clogged SAS or cesspool
Yes No Discharge or ponding of effluent to the surface of the ground or surface waters due to an overloaded or clogged SAS or cesspool



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C. Inspection Summary (cont.)

4) System Failure Criteria Applicable to All Systems: (cont.)

- Yes No
Static liquid level in the distribution box above outlet invert due to an overloaded or clogged SAS or cesspool
Liquid depth in cesspool is less than 6" below invert or available volume is less than 1/2 day flow
Required pumping more than 4 times in the last year NOT due to clogged or obstructed pipe(s). Number of times pumped: _____.
Any portion of the SAS, cesspool or privy is below high ground water elevation.
Any portion of cesspool or privy is within 100 feet of a surface water supply or tributary to a surface water supply.
Any portion of a cesspool or privy is within a Zone 1 of a public water supply well.
Any portion of a cesspool or privy is within 50 feet of a private water supply well.
Any portion of a cesspool or privy is less than 100 feet but greater than 50 feet from a private water supply well with no acceptable water quality analysis. [This system passes if the well water analysis, performed at a DEP certified laboratory, for fecal coliform bacteria indicates absent and the presence of ammonia nitrogen and nitrate nitrogen is equal to or less than 5 ppm, provided that no other failure criteria are triggered. A copy of the analysis and chain of custody must be attached to this form.]
The system is a cesspool serving a facility with a design flow of 2000 gpd-10,000 gpd.
The system fails. I have determined that one or more of the above failure criteria exist as described in 310 CMR 15.303, therefore the system fails. The system owner should contact the Board of Health to determine what will be necessary to correct the failure.

5) Large Systems: To be considered a large system the system must serve a facility with a design flow of 10,000 gpd to 15,000 gpd.

For large systems, you must indicate either "yes" or "no" to each of the following, in addition to the questions in Section C.4.

- Yes No
the system is within 400 feet of a surface drinking water supply
the system is within 200 feet of a tributary to a surface drinking water supply
the system is located in a nitrogen sensitive area (Interim Wellhead Protection Area - IWPA) or a mapped Zone II of a public water supply well



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C. Inspection Summary (cont.)

If you have answered "yes" to any question in Section C.5 the system is considered a significant threat, or answered "yes" to any question in Section C.4 above the large system has failed. The owner or operator of any large system considered a significant threat under Section C.5 or failed under Section C.4 shall upgrade the system in accordance with 310 CMR 15.304. The system owner should contact the appropriate regional office of the Department.

6. You must indicate "yes" or "no" for each of the following for all inspections:

Yes No

- Checkboxes and questions for inspection items: Pumping information was provided... Were any of the system components pumped out... Has the system received normal flows... Have large volumes of water been introduced... Were as built plans of the system obtained... Was the facility or dwelling inspected for signs of sewage back up? Was the site inspected for signs of break out? Were all system components, excluding the SAS, located on site? Were the septic tank manholes uncovered... Was the facility owner (and occupants if different from owner) provided with information on the proper maintenance of subsurface sewage disposal systems? Existing information. For example, a plan at the Board of Health. Determined in the field (if any of the failure criteria related to Part C is at issue approximation of distance is unacceptable) [310 CMR 15.302(5)]



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D. System Information

1. Residential Flow Conditions:

Number of bedrooms (design): _____ Number of bedrooms (actual): _____

DESIGN flow based on 310 CMR 15.203 (for example: 110 gpd x # of bedrooms): _____

Description:

Number of current residents: _____

Does residence have a garbage grinder? Yes No

Does residence have a water treatment unit? Yes No

If yes, discharges to: _____

Is laundry on a separate sewage system? (Include laundry system inspection information in this report.) Yes No

Laundry system inspected? Yes No

Seasonal use? Yes No

Water meter readings, if available (last 2 years usage (gpd)): _____

Detail:

Sump pump? Yes No

Last date of occupancy: _____
 Date



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D. System Information (cont.)

2. Commercial/Industrial Flow Conditions:

Type of Establishment: Elementary School

Design flow (based on 310 CMR 15.203): Gallons per day (gpd)

Basis of design flow (seats/persons/sq.ft., etc.): Persons

Grease trap present? Yes No

Water treatment unit present? Yes No

If yes, discharges to: _____

Industrial waste holding tank present? Yes No

Non-sanitary waste discharged to the Title 5 system? Yes No

Water meter readings, if available: _____

Last date of occupancy/use: 2022-2023 School Year
 Date

Other (describe below):

Refer to Sheet U1 for basis of design flows for each septic system.

3. Pumping Records:

Source of information: Robert B. Our (Pumping contractor)

Was system pumped as part of the inspection? Yes No

If yes, volume pumped: 13,500
 gallons

How was quantity pumped determined? By pumping contractor

Reason for pumping: Inspection of septic structures



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D. System Information (cont.)

4. **Type of System:**

- Septic tank, distribution box, soil absorption system
- Single cesspool
- Overflow cesspool
- Privy
- Shared system (yes or no) (if yes, attach previous inspection records, if any)
- Innovative/Alternative technology. Attach a copy of the current operation and maintenance contract (to be obtained from system owner) and a copy of latest inspection of the I/A system by system operator under contract
- Tight tank. Attach a copy of the DEP approval.
- Other (describe):
Siphon Chamber is part of system

Approximate age of all components, date installed (if known) and source of information:

Approximately 50 years for the system installed in 1974. Upgrades were performed in 2011.

Were sewage odors detected when arriving at the site? Yes No

5. **Building Sewer** (locate on site plan):

Depth below grade: 2.5-3
feet

Material of construction:
 cast iron 40 PVC other (explain): PVC Pipe

Distance from private water supply well or suction line: N/A
feet

Comments (on condition of joints, venting, evidence of leakage, etc.):

No evidence of leaking. Many areas of the PVC sewer lines to the septic system components are sagged and hold water. All areas of cast iron are compromised and deep scaling was observed.



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D. System Information (cont.)

6. Septic Tank (locate on site plan):

Depth below grade:

Nine inches (9")
feet

Material of construction:

concrete

metal

fiberglass

polyethylene

other (explain)

Concrete tank is approximately 50 years of age.

If tank is metal, list age:

years

Is age confirmed by a Certificate of Compliance? (attach a copy of certificate)

Yes

No

Dimensions:

Approximately 33'x10'x7'

Sludge depth:

Distance from top of sludge to bottom of outlet tee or baffle

Scum thickness

Distance from top of scum to top of outlet tee or baffle

Distance from bottom of scum to bottom of outlet tee or baffle

How were dimensions determined?

Field

Comments (on pumping recommendations, inlet and outlet tee or baffle condition, structural integrity, liquid levels as related to outlet invert, evidence of leakage, etc.):

No scum was observed and there was approximately 3-4 inches of sludge at the bottom of the tank.



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D. System Information (cont.)

7. **Grease Trap** (locate on site plan):

Depth below grade: _____ feet

Material of construction:

concrete metal fiberglass polyethylene other (explain):

Dimensions: _____

Scum thickness _____

Distance from top of scum to top of outlet tee or baffle _____

Distance from bottom of scum to bottom of outlet tee or baffle _____

Date of last pumping: _____ Date

Comments (on pumping recommendations, inlet and outlet tee or baffle condition, structural integrity, liquid levels as related to outlet invert, evidence of leakage, etc.):

8. **Tight or Holding Tank** (tank must be pumped at time of inspection) (locate on site plan):

Depth below grade: _____

Material of construction:

concrete metal fiberglass polyethylene other (explain):

Dimensions: _____

Capacity: _____ gallons

Design Flow: _____ gallons per day



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D. System Information (cont.)

8. Tight or Holding Tank (cont.)

Alarm present:

Yes No

Alarm level: _____

Alarm in working order: Yes No

Date of last pumping: _____

Date

Comments (condition of alarm and float switches, etc.):

* Attach copy of current pumping contract (required). Is copy attached?

Yes No

9. Distribution Box (if present must be opened) (locate on site plan):

Depth of liquid level above outlet invert

0"

Comments (note if box is level and distribution to outlets equal, any evidence of solids carryover, any evidence of leakage into or out of box, etc.):

D-Box appeared to be in good condition. Some organic matter was observed in D-Box.



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D. System Information (cont.)

10. Pump Chamber (locate on site plan):

Pumps in working order: Yes No*

Alarms in working order: Yes No*

Comments (note condition of pump chamber, condition of pumps and appurtenances, etc.):

Siphon pumps appear to be in good condition. There is no alarm for the Siphon Chamber.

* If pumps or alarms are not in working order, system is a conditional pass.

11. Soil Absorption System (SAS) (locate on site plan, excavation not required):

If SAS not located, explain why:

Type:

leaching pits number: _____

leaching chambers number: _____

leaching galleries number: _____

leaching trenches number, length: _____

leaching fields number, dimensions: Two (2)

overflow cesspool number: _____

innovative/alternative system

Type/name of technology: _____



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D. System Information (cont.)

11. Soil Absorption System (SAS) (cont.)

Comments (note condition of soil, signs of hydraulic failure, level of ponding, damp soil, condition of vegetation, etc.):

No signs of hydraulic failure, ponding, etc. were observed for the septic system.

12. Cesspools (cesspool must be pumped as part of inspection) (locate on site plan):

Number and configuration

Depth – top of liquid to inlet invert

Depth of solids layer

Depth of scum layer

Dimensions of cesspool

Materials of construction

Indication of groundwater inflow

Yes No

Comments (note condition of soil, signs of hydraulic failure, level of ponding, condition of vegetation, etc.):



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D. System Information (cont.)

13. Privy (locate on site plan):

Materials of construction:

Dimensions

Depth of solids

Comments (note condition of soil, signs of hydraulic failure, level of ponding, condition of vegetation, etc.):



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D. System Information (cont.)

14. Sketch Of Sewage Disposal System:

Provide a view of the sewage disposal system, including ties to at least two permanent reference landmarks or benchmarks. Locate all wells within 100 feet. Locate where public water supply enters the building. Check one of the boxes below:

- hand-sketch in the area below
- drawing attached separately

NOTE:

Please refer to the existing conditions survey plans (Sheet EX-2 of 8 sheets) attached to the end of this report indicating the location of the existing larger septic system on the site.



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D. System Information (cont.)

15. **Site Exam:**

- Check Slope
- Surface water
- Check cellar
- Shallow wells

Estimated depth to high ground water: >15 feet +/- (Systems on SW side of Building Only)

Please indicate all methods used to determine the high ground water elevation:

- Obtained from system design plans on record
 If checked, date of design plan reviewed: July 6, 1989
Date
- Observed site (abutting property/observation hole within 150 feet of SAS)
- Checked with local Board of Health - explain:

- Checked with local excavators, installers - (attach documentation)
- Accessed USGS database - explain:

You **must** describe how you established the high ground water elevation:

Reviewed the septic design plans for the two (2) septic systems located on the southwesterly side of the building only. Information was provided from a Plan Set entitled, "Addition and Alterations to the Wixon Middle School, Dennis, Massachusetts, C.A. Crowley Engineering Inc. dated July 6, 1989 (Sheets U1 and P1).

Before filing this Inspection Report, please see Report Completeness Checklist on next page.



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E. Report Completeness Checklist

Complete all applicable sections of this form inclusive of:

A. Inspector Information: Complete all fields in this section.

B. Certification: Signed & Dated and 1, 2, 3, or 4 checked

C. Inspection Summary:

1, 2, 3, or 5 completed as appropriate

4 (Failure Criteria) and 6 (Checklist) completed

D. System Information:

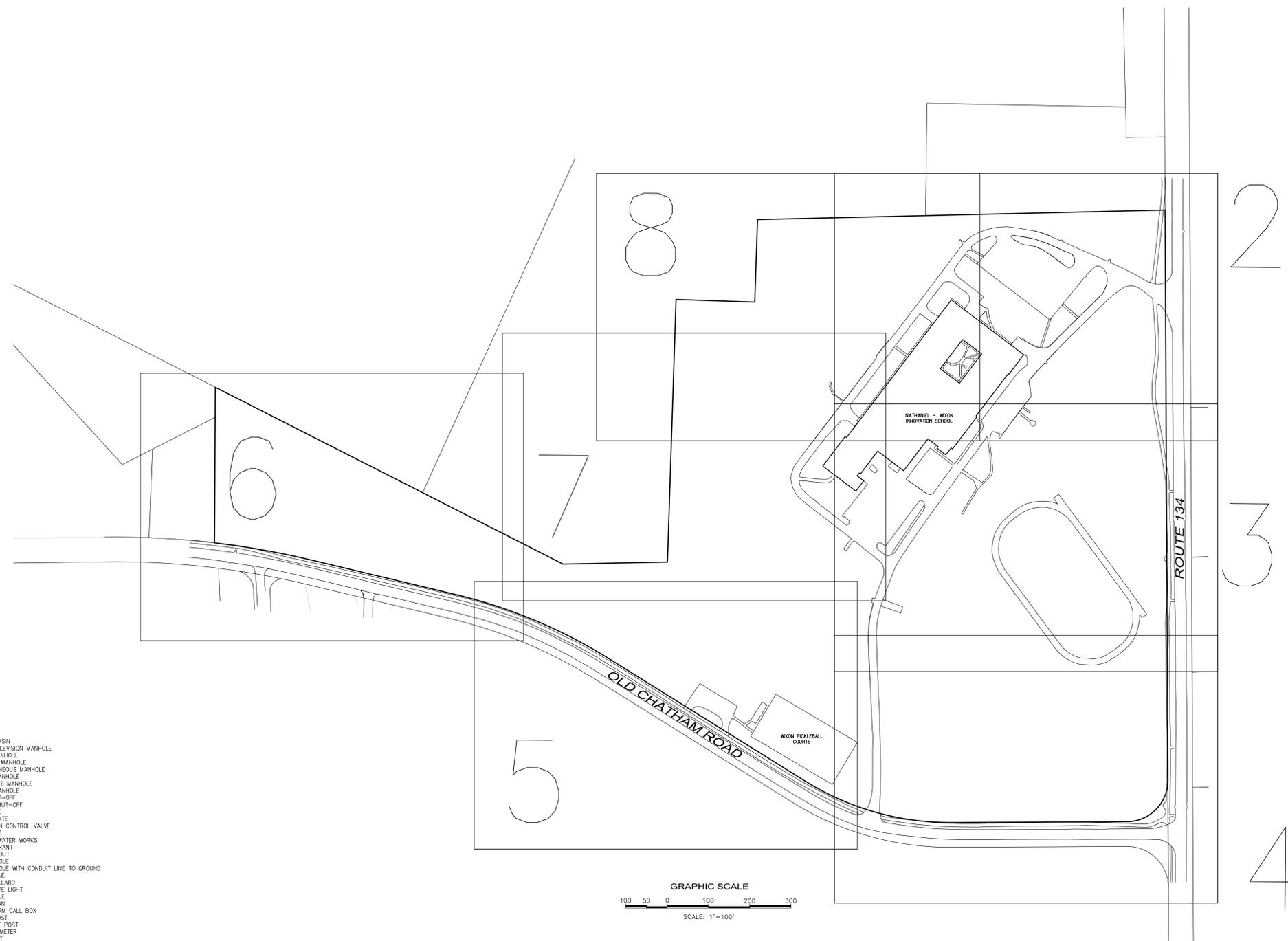
For 8: Tight/Holding Tank – Pumping contract attached

For 14: Sketch of Sewage Disposal System drawn on pg. 16 or attached

For 15: Explanation of estimated depth to high groundwater included

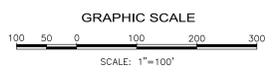
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MASSACHUSETTS STATE PLANE COORDINATE SYSTEM
NAD 83



LEGEND

⊙	CATCH BASIN
⊙	CABLE TELEVISION MANHOLE
⊙	DRAIN MANHOLE
⊙	ELECTRIC MANHOLE
⊙	MISCELLANEOUS MANHOLE
⊙	SEWER MANHOLE
⊙	TELEPHONE MANHOLE
⊙	WATER MANHOLE
⊙	GAS SHUT-OFF
WSO ⊙	WATER SHUT-OFF
GO ⊙	GAS GATE
WG ⊙	WATER GATE
ICV ⊙	IRRIGATION CONTROL VALVE
CLEANOUT ⊙	CLEANOUT
BWW ⊙	BOSTON WATER WORKS
FB ⊙	FIRE HYDRANT
DS ⊙	DOWN SPOUT
UP ⊙	UTILITY POLE
UP ⊙	UTILITY POLE WITH CONDUIT LINE TO GROUND
UP W/ ⊙	UTILITY POLE WITH CONDUIT LINE TO GROUND
⊙	LIGHT POLE
LB ⊙	LIGHT BOLLARD
LL ⊙	LANDSCAPE LIGHT
HL ⊙	HAND HOLE
TC ⊙	TRASH CAN
FAC ⊙	FIRE ALARM CALL BOX
MP ⊙	METAL POST
CP ⊙	CONCRETE POST
PM ⊙	PARKING METER
S ⊙	SIGN POST
⊙	TRAFFIC MAST ARM
⊙	TRAFFIC SIGNAL
⊙	PEDESTRIAN SIGNAL
12' ⊙	DECIDUOUS TREE WITH TRUNK DIAMETER
12' ⊙	CONIFEROUS TREE WITH TRUNK DIAMETER
⊙	HANDICAP PARKING
⊙	SPOT ELEVATION
⊙	CHAIN LINK FENCE
⊙	BITUMINOUS CONCRETE BERM
⊙	SLOPED GRANITE CURB
VCC ⊙	VERTICAL GRANITE CURB
VCC ⊙	VERTICAL CONCRETE CURB
WCR ⊙	WHEELIWAY RAMP
LST ⊙	LANDSCAPE TIMBER
R ⊙	RIM ELEVATION EQUALS
IB ⊙	INVERT ELEVATION EQUALS
⊙	TOP OF HOOD ELEVATION EQUALS
⊙	NO PIPES VISIBLE
⊙	TOP OF WATER
⊙	TRAFFIC CONTROL BOX
⊙	UNDERGROUND LOOP DETECTOR
⊙	DETECTABLE WARNING PANEL
⊙	TOP OF WALL ELEVATION
⊙	UNDERGROUND CABLE TELEVISION LINE
⊙	UNDERGROUND DRAIN LINE
⊙	UNDERGROUND ELECTRIC LINE
⊙	UNDERGROUND GAS LINE
⊙	UNDERGROUND SEWER LINE
⊙	UNDERGROUND TELEPHONE LINE
⊙	UNDERGROUND WATER LINE
⊙	OVERHEAD WIRES
⊙	MONITORING WELL
⊙	BENCH MARK



- NOTES**
1. THIS DOCUMENT IS AN INSTRUMENT OF SERVICE OF NITSCHE ENGINEERING. IT IS ISSUED TO THE TOWN OF DENNIS FOR PURPOSES RELATED DIRECTLY AND SOLELY TO NITSCHE ENGINEERING'S SCOPE OF SERVICES UNDER CONTRACT WITH THE TOWN OF DENNIS FOR WIXON SCHOOL. ANY USE OR REUSE OF THIS DOCUMENT FOR ANY REASON BY ANY PARTY FOR PURPOSES UNRELATED DIRECTLY AND SOLELY TO SAID CONTRACT AND PROJECT SHALL BE AT THE USER'S SOLE AND EXCLUSIVE RISK AND LIABILITY, INCLUDING LIABILITY FOR VIOLATION OF COPYRIGHT LAWS, UNLESS WRITTEN AUTHORIZATION IS GIVEN THEREFOR BY NITSCHE ENGINEERING.
 2. THE PURPOSE OF THIS PLAN IS TO SHOW EXISTING CONDITIONS AS THE RESULT OF AN ON-THE-GROUND INSTRUMENT SURVEY WHICH OCCURRED MARCH 2024.
 3. HORIZONTAL COORDINATES REFER TO MASSACHUSETTS STATE PLANE (NAD 83) BASED ON RTK GPS OBSERVATIONS.
 4. ELEVATION REFERS TO NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD 88) VERTICAL BASED ON RTK GPS OBSERVATIONS.
 5. THE INFORMATION CONTAINED ON THE DISK OR ELECTRONIC DRAWING FILE ACCOMPANYING THIS PLAN MUST BE COMPARED TO THE SEALED AND SIGNED HARD COPY OF THE PLAN TO ENSURE THE ACCURACY OF ALL INFORMATION AND TO ENSURE NO CHANGES, ALTERATIONS, OR MODIFICATIONS HAVE BEEN MADE. RELIANCE SHALL NOT BE MADE ON A DOCUMENT TRANSMITTED BY COMPUTER OR OTHER ELECTRONIC MEANS UNLESS FIRST COMPARED TO THE ORIGINAL SEALED DOCUMENT ISSUED AT THE TIME OF THE SURVEY. DUE TO THE CRITICAL NATURE OF SURVEYING DATA ACQUISITION, AND AUTOCAD PLAN DEVELOPMENT, IF CRITICAL DIMENSIONAL INFORMATION IS NEEDED AND IS NOT SPECIFICALLY SHOWN ON THE ELECTRONIC DRAWING FILE, PLEASE CONTACT NITSCHE ENGINEERING.

- UTILITY INFORMATION STATEMENT**
1. THE SUB-SURFACE UTILITY INFORMATION SHOWN HEREON IS COMPILED BASED ON FIELD SURVEY INFORMATION, RECORD INFORMATION AS SUPPLIED BY THE APPROPRIATE UTILITY COMPANIES, AND PLAN INFORMATION SUPPLIED BY THE CLIENT, IF ANY; THEREFORE, WE CANNOT GUARANTEE THE ACCURACY OF SAID COMPILED SUB-SURFACE INFORMATION TO ANY CERTAIN DEGREE OF STATED TOLERANCE. ONLY PHYSICALLY LOCATED SUB-SURFACE UTILITY FEATURES FALL WITHIN NORMAL STANDARD OF CARE ACCURACIES.
 2. THE LOCATIONS OF UNDERGROUND PIPES, CONDUITS, AND STRUCTURES HAVE BEEN DETERMINED FROM SAID INFORMATION, AND ARE APPROXIMATE ONLY. COMPILED LOCATIONS OF ANY UNDERGROUND STRUCTURES, NOT VISIBLY OBSERVED AND LOCATED, CAN VARY FROM THEIR ACTUAL LOCATIONS.
 3. ADDITIONAL BURIED UTILITIES/STRUCTURES MAY BE ENCOUNTERED.
 4. THE STATUS OF UTILITIES, WHETHER ACTIVE, ABANDONED, OR REMOVED, IS AN UNKNOWN CONDITION AS FAR AS OUR COMPILATION OF THIS INFORMATION.
 5. IT IS INCUMBENT UPON INDIVIDUALS USING THIS INFORMATION TO UNDERSTAND THAT COMPILED UTILITY INFORMATION IS NOT EXACT, AND IS SUBJECT TO CHANGE BASED UPON VARYING PLAN INFORMATION RECEIVED AND ACTUAL LOCATIONS.
 6. THE ACCURACY OF MEASURED UTILITY INVERTS AND PIPE SIZES IS SUBJECT TO FIELD CONDITIONS; THE ABILITY TO MAKE VISUAL OBSERVATIONS, DIRECT ACCESS TO THE VARIOUS ELEMENTS AND OTHER MATTERS.
 7. THE PROPER UTILITY ENGINEERING/COMPANY SHOULD BE CONSULTED AND THE ACTUAL LOCATIONS OF SUBSURFACE STRUCTURES SHOULD BE VERIFIED IN THE FIELD (V.I.F.) BEFORE PLANNING FUTURE CONNECTIONS. CONTACT THE DIG SAFE CALL CENTER AT 1-888-344-7233, SEVENTY-TWO HOURS PRIOR TO EXCAVATION, BLASTING, GRADING, AND/OR PAVING.
 8. AS OF THE DATE OF THIS PLAN RECORD INFORMATION HAS NOT BEEN RECEIVED BY NITSCHE ENGINEERING FOR THE FOLLOWING UTILITIES: COMCAST CABLE CORPORATION, EVERSOURCE FIBER, MASS COASTAL RAILROAD, DENNIS WASTEWATER, DENNIS WATER DISTRICT



DENIS R. SEGUIN, PLS DATE: _____
 MASSACHUSETTS REG. NO. 37058
 REGISTERED PROFESSIONAL LAND SURVEYOR

Nitsch Engineering

www.nitscheng.com

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 F: (617) 338-6472

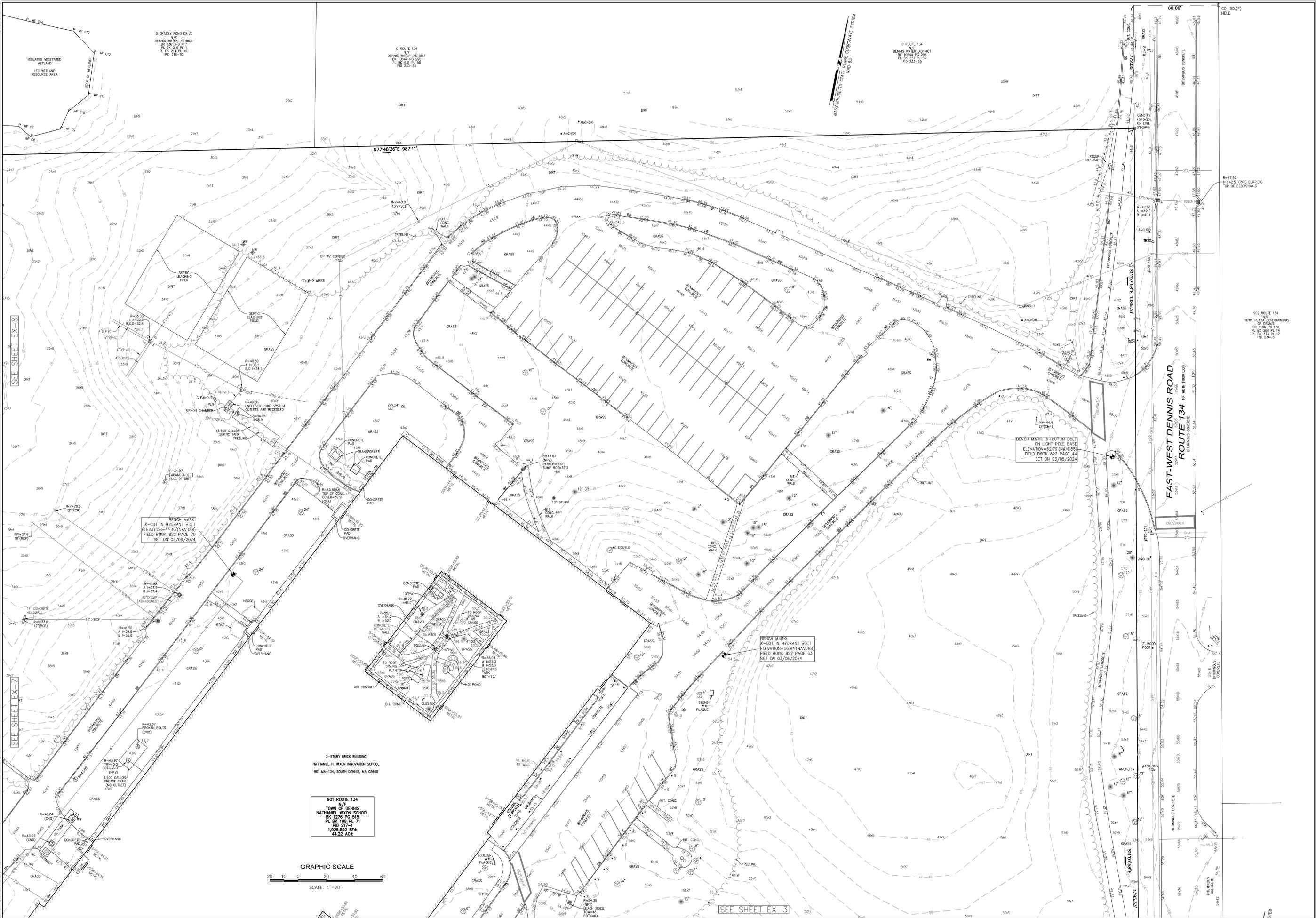
- Civil Engineering
- Land Surveying
- Transportation Engineering
- Structural Engineering
- Green Infrastructure
- Planning
- GIS

PROJECT #	15582.1
FILE	15582.1_TOPO.dwg
SCALE	1"=20'
DATE	MARCH 2024
PROJECT MANAGER	B
FIELD BOOK	822
DRAFTED BY	JTJ
CHECKED BY	
	SEPTIC TANK BY CONCESSION BUILDING
	ADDITIONAL UTILITY INFORMATION
	COMMENTS
	REVISIONS

EXISTING CONDITIONS PLAN
 NATHANIEL H. WIXON INNOVATION SCHOOL
 901 MA-134, SOUTH DENNIS, MA 02660

PREPARED FOR:
TOWN OF DENNIS
 685 ROUTE 134, SOUTH DENNIS, MA 02660

SHEET:
EX-1
 OF 6 REV. B



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PROJECT # 15582.1
 FILE: 15582.1_TOPO.dwg
 SCALE: 1"=20'
 DATE: MARCH 2024
 PROJECT MANAGER:
 FIELD BOOK: 822
 DRAFTED BY: J.T.J.
 CHECKED BY:

REV.	ADDITIONAL UTILITY INFORMATION	DATE
A		4/11/2024
REV.	COMMENTS	
	REVISIONS	

EXISTING CONDITIONS PLAN
 NATHANIAL H. WIXON INNOVATION SCHOOL
 901 MA-134, SOUTH DENNIS, MA 02660

PREPARED FOR:
TOWN OF DENNIS
 685 ROUTE 134, SOUTH DENNIS, MA 02660

SHEET:
EX-2
 OF 6 REV. B

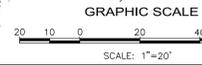
901 ROUTE 134
N/T
TOWN OF DENNIS
NATHANIEL H. WIXON SCHOOL
BK 1276 PG 515
PL BK 188 PG 71
PID 217-1
1,000,000 SCA
44.22 AC±

SEE SHEET EX-2



894 ROUTE 134
N/T
TOWN OF DENNIS
PIER 134 COMMON, LLC
BK 3178 PG 103
PL BK 280 PG 14
PID 218-1
1,000,000 SCA
10.11 AC±

860 ROUTE 134
N/T
TOWN OF DENNIS
MERIDIAN FAMILY
LIMITED PARTNERSHIP
BK 21719 PG 46
PID 218-2



SEE SHEET EX-4

SEE SHEET EX-5

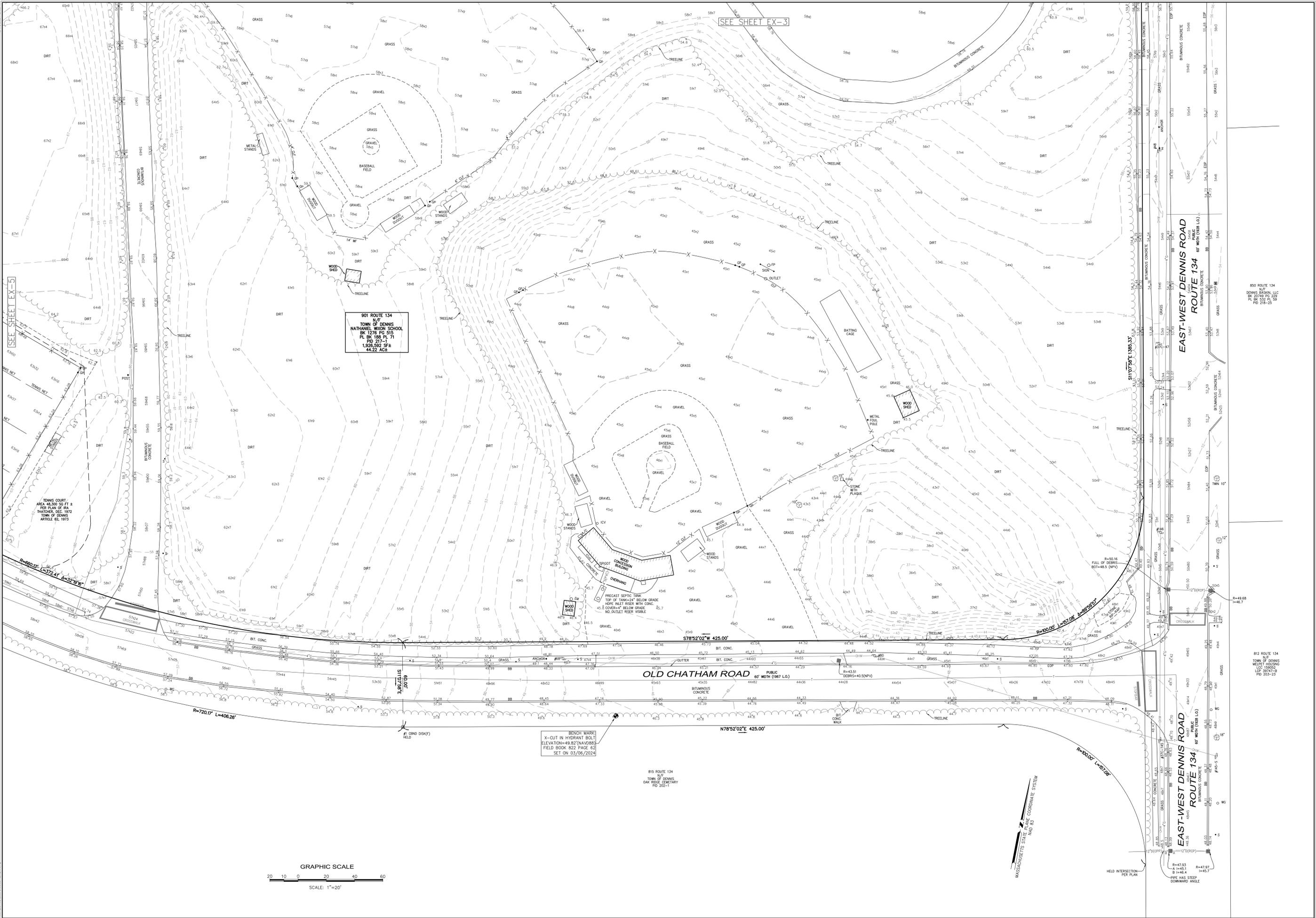
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- Planning
- GIS

PROJECT #	15582.1		
FILE	15582.1_TOPO.dwg		
SCALE	1"=20'		
DATE	MARCH 2024		
PROJECT MANAGER			
FIELD BOOK	822	A	ADDITIONAL UTILITY INFORMATION
DRAFTED BY	JTJ	REV.	COMMENTS
CHECKED BY			REVISIONS
			4/11/2024
			DATE

EXISTING CONDITIONS PLAN
NATHANIEL H. WIXON INNOVATION SCHOOL
901 MA-134, SOUTH DENNIS, MA 02660
PREPARED FOR:
TOWN OF DENNIS
685 ROUTE 134, SOUTH DENNIS, MA 02660

SHEET:
EX-3
OF 6 REV. B

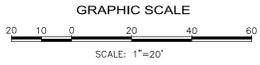


901 ROUTE 134
NATHANIEL WIXON SCHOOL
PL BK 188 PL 71
PD 217-1
1,926,592 SF±
44.22 AC±

TENNIS COURT
AREA 48,300 SQ FT ±
PER PLAN OF RE-
THATCHER, DEC. 1972
TOWN OF DENNIS
ARTICLE 62, 1973

BENCH MARK
X-CUT IN HYDRANT BOLT
ELEVATION=49.82 (NAVD83)
FIELD BOOK 822 PAGE 62
SET ON 03/06/2024

OLD CHATHAM ROAD
PUBLIC
60' WIDTH (1967 L.O.)



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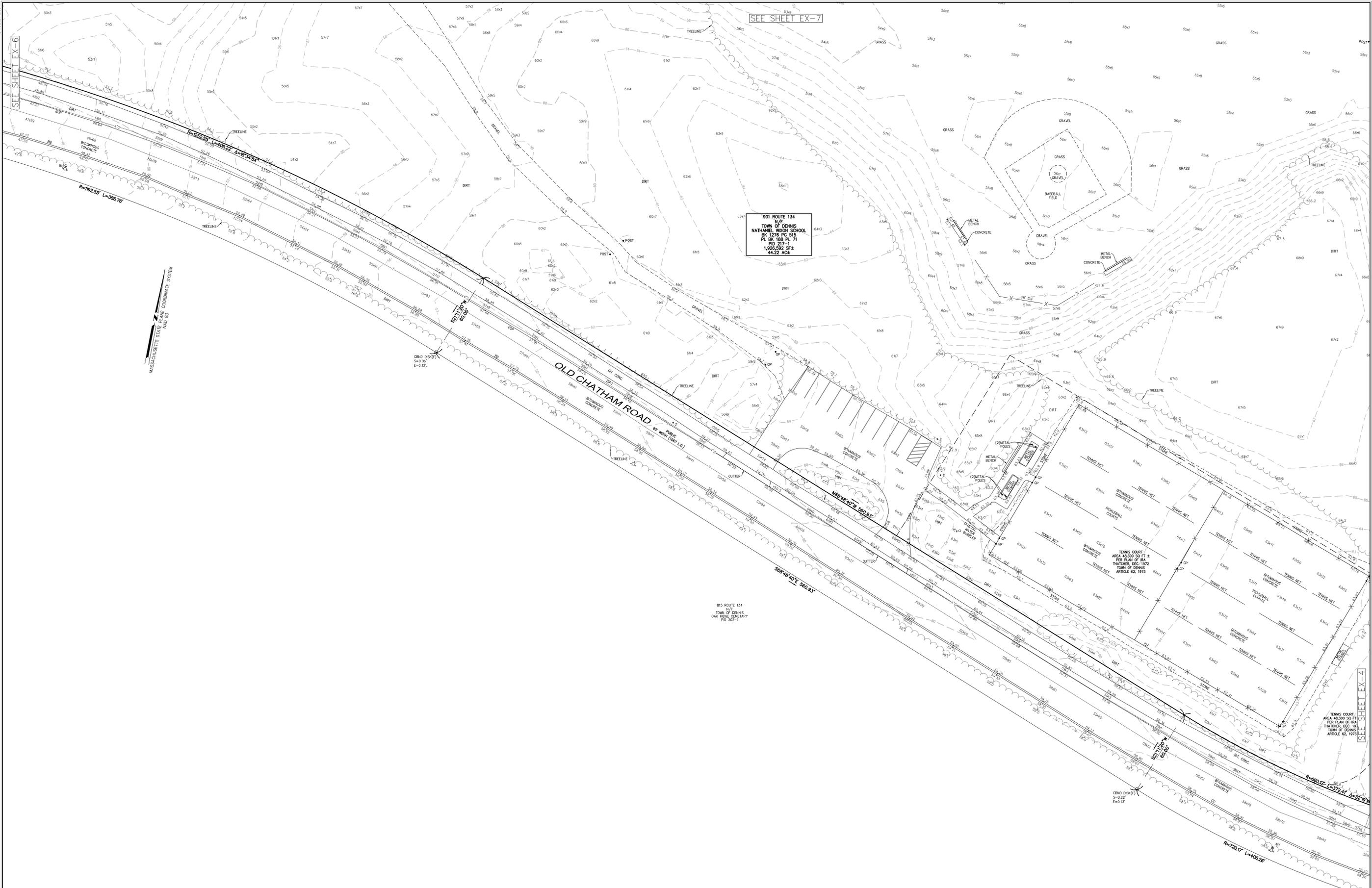
- Civil Engineering
- Land Surveying
- Transportation Engineering
- Structural Engineering
- Green Infrastructure
- Planning
- GIS

PROJECT #	15882.1		
FILE:	15882.1_TOPO.dwg		
SCALE:	1"=20'		
DATE:	MARCH 2024		
PROJECT MANAGER:			
FIELD BOOK:	822		
DRAFTED BY:	JTJ		
CHECKED BY:			
REV.		COMMENTS	DATE
B		SEPTIC TANK BY CONCESSION BUILDING	4/17/2024
A		ADDITIONAL UTILITY INFORMATION	4/11/2024
		REVISIONS	

EXISTING CONDITIONS PLAN
NATHANIEL H. WIXON INNOVATION SCHOOL
901 MA-134, SOUTH DENNIS, MA 02660

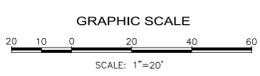
PREPARED FOR:
TOWN OF DENNIS
685 ROUTE 134, SOUTH DENNIS, MA 02660

SHEET:
EX-4
OF 6 REV. B



901 ROUTE 134
 N/F
 TOWN OF DENNIS
 NATHANIEL WIXON SCHOOL
 BK 1276 PG 515
 PL BK 188 PL 71
 PID 217-1
 1,926,594 SQ±
 44.22 ACS

815 ROUTE 134
 N/F
 TOWN OF DENNIS
 OW RISE CEMETERY
 PD 202-1



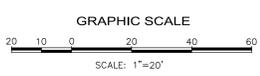
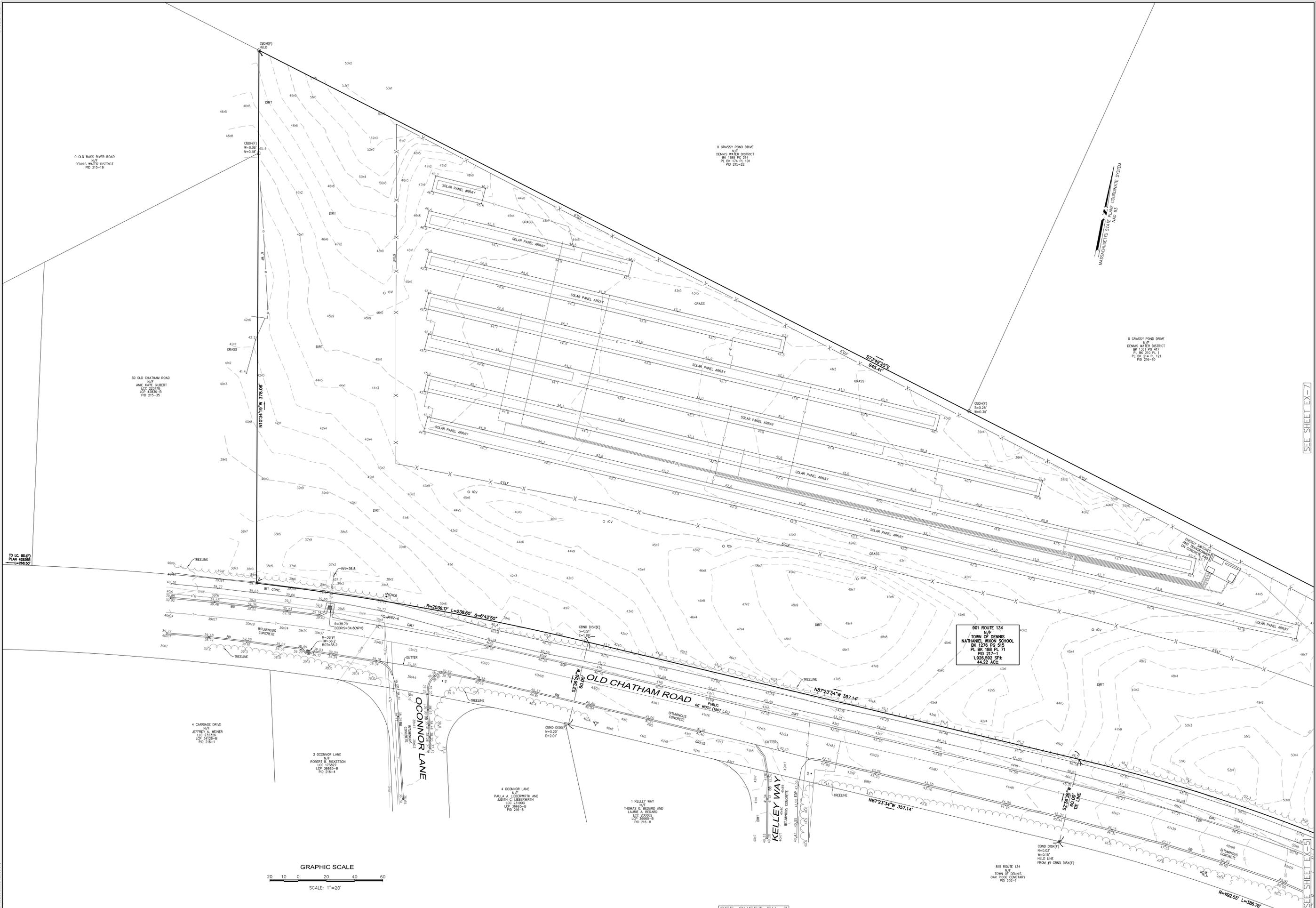
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- Structural Engineering
- Green Infrastructure
- Planning
- GIS

PROJECT # 15582.1	FILE 15582.1_TOPO.dwg	SCALE: 1"=20'	DATE: MARCH 2024
PROJECT MANAGER:	FIELD BOOK: 822	DRAFTED BY: JTJ	CHECKED BY:
A		ADDITIONAL UTILITY INFORMATION	4/11/2024
REV.		COMMENTS	DATE
		REVISIONS	

EXISTING CONDITIONS PLAN
 NATHANIEL H. WIXON INNOVATION SCHOOL
 901 MA-134, SOUTH DENNIS, MA 02660
 PREPARED FOR:
 TOWN OF DENNIS
 685 ROUTE 134, SOUTH DENNIS, MA 02660

SHEET:
EX-5
 OF 6 REV. B



SEE SHEET EX-3

SEE SHEET EX-7

SEE SHEET EX-10

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PROJECT #	15582.1		
FILE	15582.1_TOPO.dwg		
SCALE	1"=20'		
DATE	MARCH 2024		
PROJECT MANAGER			
FIELD BOOK	B22	A	4/11/2024
DRAFTED BY	JTJ	REV.	COMMENTS
CHECKED BY			REVISIONS

EXISTING CONDITIONS PLAN
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PREPARED FOR:
 TOWN OF DENNIS
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SHEET:
EX-6
 OF 6 REV. B



SEE SHEET EX-6

SEE SHEET EX-8

SEE SHEET EX-5

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PROJECT #	15582.1	ADDITIONAL UTILITY INFORMATION	4/11/2024
FILE	15582.1_TOPO.dwg	COMMENTS	
SCALE	1"=20'	REVISIONS	
DATE	MARCH 2024		
PROJECT MANAGER			
FIELD BOOK	822		
DRAFTED BY	JTJ		
CHECKED BY			

EXISTING CONDITIONS PLAN
 NATHANIAL H. WIXON INNOVATION SCHOOL
 901 MA-134, SOUTH DENNIS, MA 02660
 PREPARED FOR:
 TOWN OF DENNIS
 685 ROUTE 134, SOUTH DENNIS, MA 02660

SHEET:
EX-7
 OF 8 REV. B

1:17/2024 2:58



O GRASSY POND DRIVE
DENNIS WATER DISTRICT
BK 1361 PG 417
PL BK 214 PL 121
PD 216-10

O GRASSY POND DRIVE
DENNIS WATER DISTRICT
BK 1361 PG 417
PL BK 214 PL 121
PD 216-10

O ROUTE 134
DENNIS WATER DISTRICT
BK 10644 PG 298
PL BK 531 PL 53
PD 233-25

N81°03'56"E
190.78'

N77°48'36"E 987.11'

X-CUT IN HYDRANT BOLT
ELEVATION=44.43'(NAVD88)
FIELD BOOK 822 PAGE 70
SET ON 03/06/2024

901 ROUTE 134
N/T
TOWN OF DENNIS
NATHANIEL H. WIXON SCHOOL
BK 1276 PG 515
PL BK 186 PL 71
PD 217-1
1,926,592 SF±
44.22 AC±

2-STORY BRICK BUILDING
NATHANIEL H. WIXON INNOVATION SCHOOL
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GRAPHIC SCALE
SCALE: 1"=20'

SEE SHEET EX-7

SEE SHEET EX-3

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- Planning
- GIS

PROJECT #	15582.1	FILE:	15582.1_TOPO.dwg
SCALE:	1"=20'	DATE:	MARCH 2024
PROJECT MANAGER:		FIELD BOOK:	822
DRAFTED BY:	JTJ	REV:	A
CHECKED BY:		ADDITIONAL UTILITY INFORMATION:	4/11/2024
		COMMENTS:	DATE
		REVISIONS:	

EXISTING CONDITIONS PLAN
NATHANIEL H. WIXON INNOVATION SCHOOL
901 MA-134, SOUTH DENNIS, MA 02860
PREPARED FOR:
TOWN OF DENNIS
685 ROUTE 134, SOUTH DENNIS, MA 02660

SHEET:
EX-8
OF 8 REV. B