

Septic System Repair

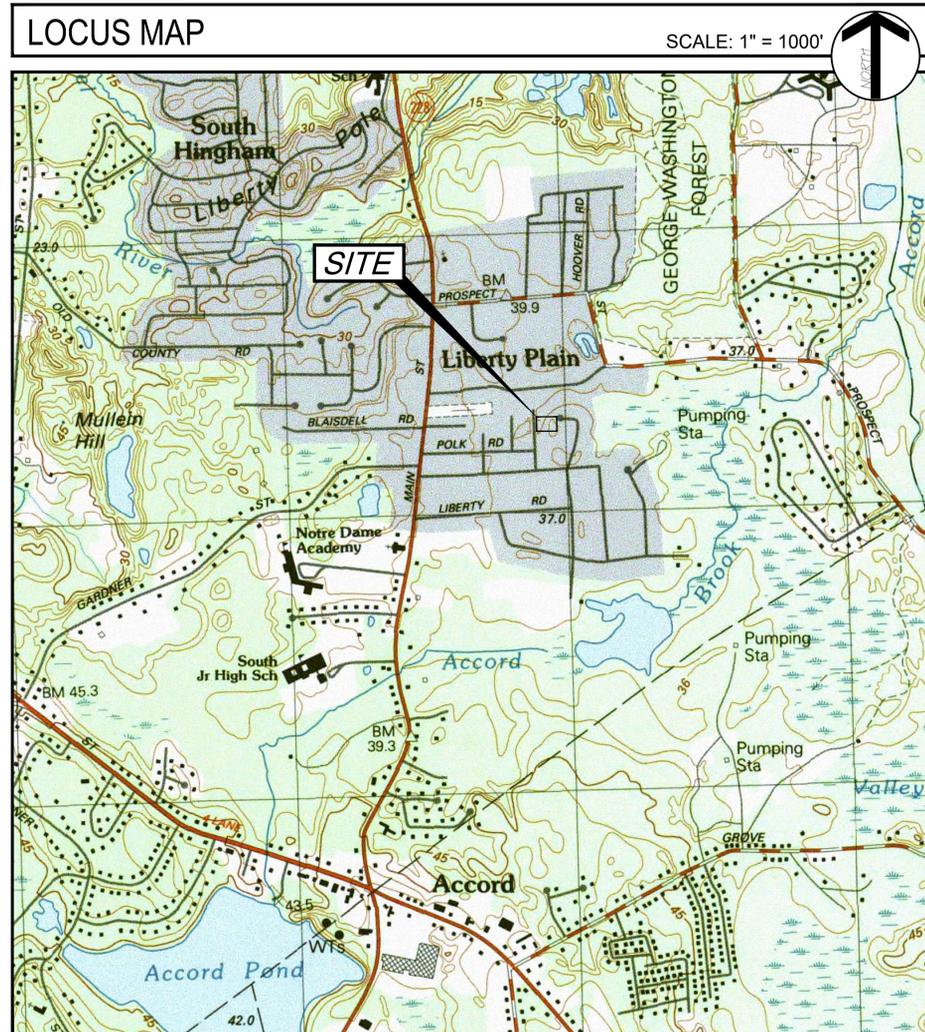
for

Single-Family Home

#9 Palmers Lane, Hingham, MA

APPLICANT:
NEAL J & COLLEEN N ODRISCOLL
 9 PALMERS LANE
 HINGHAM, MA 02043

CIVIL ENGINEER:
CHA CONSULTING, INC.
 141 LONGWATER DRIVE, SUITE 104
 NORWELL, MA 02061



Sheet No.	Sheet Title
C-001	TITLE SHEET
C-002	EXISTING CONDITIONS PLAN
C-100	SEPTIC REPAIR PLAN
C-101	OVERALL LAYOUT PLAN
C-200	SITE DETAILS



SEPTIC REPAIR PLAN
 FOR
 9 Palmers Lane,
 Hingham
 Massachusetts

PARCEL ID:
 180-0-121



IT IS A VIOLATION OF LAW FOR ANY PERSON UNLESS THEY ARE ACTIVE UNDER THE SUPERVISION OF A LICENSED PROFESSIONAL ENGINEER, ARCHITECT, LANDSCAPE ARCHITECT, OR LAND SURVEYOR TO ALTER AN ITEM IN ANY MANNER. IF AN ITEM BEARING THE STAMP OF A LICENSED PROFESSIONAL IS ALTERED, THE ALTERING ENGINEER, ARCHITECT, LANDSCAPE ARCHITECT, OR LAND SURVEYOR SHALL STAMP THE DOCUMENT AND INCLUDE THE NOTATION 'ALTERED BY FOLLOWED BY THEIR SIGNATURE, THE DATE OF SUCH ALTERATION, AND A SPECIFIC DESCRIPTION OF THE ALTERATION.'

OWNER: Neal & Colleen O'Driscoll
 SEPTIC SYSTEM REPAIR FOR EXISTING 3-BEDROOM SINGLE-FAMILY HOME

No.	Submittal / Revision	App'd. By	Date

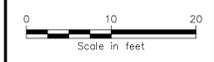
BOARD OF HEALTH SUBMISSION KK HD 02/25/23

TITLE SHEET

Designed By:	Drawn By:	Checked By:
Issue Date:	Project No.:	Scale:
10/09/2023	-	AS SHOWN

Drawing No.:
C-001

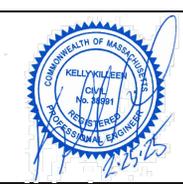
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SEPTIC REPAIR PLAN

FOR
9 Palmers Lane,
Hingham
Massachusetts

PARCEL ID:
180-0-121



IT IS A VIOLATION OF LAW FOR ANY PERSON UNLESS THEY ARE REGISTERED UNDER THE SUPERVISION OF A LICENSED PROFESSIONAL ENGINEER, ARCHITECT, LANDSCAPE ARCHITECT OR LAND SURVEYOR TO ALTER AN ITEM BY ANY MEANS. IF AN ITEM BEARING THE STAMP OF A LICENSED PROFESSIONAL IS ALTERED, THE ALTERING ENGINEER, ARCHITECT, LANDSCAPE ARCHITECT OR LAND SURVEYOR SHALL STAMP THE DOCUMENT AND INCLUDE THE NOTATION "ALTERED BY FOLLOWING BY THEIR SIGNATURE, THE DATE OF SUCH ALTERATION, AND A SPECIFIC DESCRIPTION OF THE ALTERATION."

OWNER: Neal & Colleen
O'Driscoll
SEPTIC SYSTEM REPAIR
FOR
EXISTING
3-BEDROOM
SINGLE-FAMILY HOME

No.	Submittal / Revision	App'd. By	Date

BOARD OF HEALTH SUBMISSION KK HD 02/25/25

EXISTING CONDITIONS PLAN

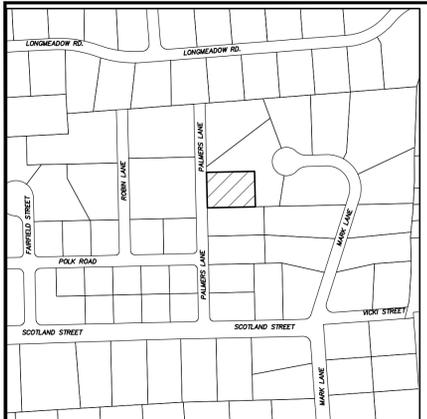
Designed By:	Drawn By:	Checked By:
HD	HD	KK
Issue Date:	Project No.:	Scale:
10/09/2023	-	As Shown

Drawing No.:
C-100

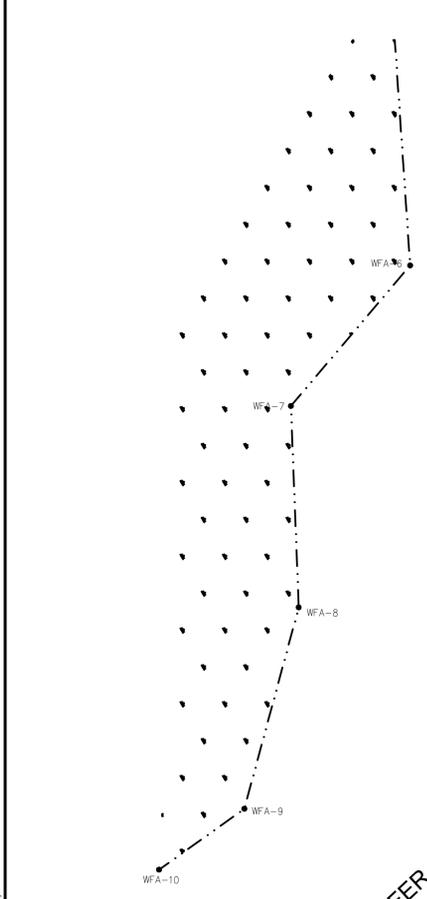
- GENERAL NOTES:**
- THE EXISTING CONDITIONS INFORMATION SHOWN HEREON IS THE RESULT OF AN ON-THE-GROUND SURVEY PERFORMED BY CHA CONSULTING, INC. IN JULY OF 2024.
 - ALL DEED REFERENCES ARE TO PLYMOUTH COUNTY REGISTRY OF DEEDS UNLESS OTHERWISE NOTED.
 - LOCUS OWNER OF RECORD:
NEAL J. & COLLEEN N. O'DRISCOLL
DEED BOOK 34694 PAGE 290
MAP 180 LOT 121
 - TOPOGRAPHY, CONTOURS AND BENCHMARKS ARE BASED ON AN ASSUMED DATUM. TEMPORARY BENCHMARKS, REFERENCED TO THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88), IN THE EVENT THAT BENCHMARKS (TBM'S), ESTABLISHED FOR THIS PROJECT AND PUBLISHED ON THIS SURVEY ARE DESTROYED, NOT RECOVERABLE OR A DISCREPANCY IS FOUND, THE USER SHOULD NOTIFY THIS FIRM IN WRITING PRIOR TO COMMENCING OR CONTINUING ANY WORK.
 - THE PROJECT AREA IS LOCATED IN FLOOD ZONE "X" AREAS OF MINIMAL FLOODING AS SHOWN ON FLOOD INSURANCE RATE MAP FOR PLYMOUTH COUNTY, COMMUNITY PANEL NUMBER 25023C0084K, EFFECTIVE DATE JULY 03, 2024.
 - LOCATION OF SUBSURFACE UTILITIES SHOWN HEREON ARE APPROXIMATE AND ADDITIONAL UTILITIES MAY EXIST THAT ARE NOT SHOWN ON THIS PLAN. LOCATIONS ARE COMPILED FROM UTILITY PLANS OF RECORD AND DIG-SAFE FIELD MARKINGS. RIM AND INVERT INFORMATION HAS BEEN COMPILED AND FIELD VERIFIED WHERE POSSIBLE. THIS INFORMATION IS NOT TO BE USED FOR CONSTRUCTION PRIOR TO ANY CONSTRUCTION. CONTACT DIG-SAFE (811) TO FIELD VERIFY LOCATION OF ALL UTILITIES.

- LEGEND:**
- BUILDING LINE
 - PARCEL BOUNDARY LINE
 - ADJOINING PARCEL LINE
 - STREET/HIGHWAY LINE
 - EDGE OF ASPHALT
 - EDGE OF CONCRETE
 - WIRE FENCE LINE
 - TREE LINE

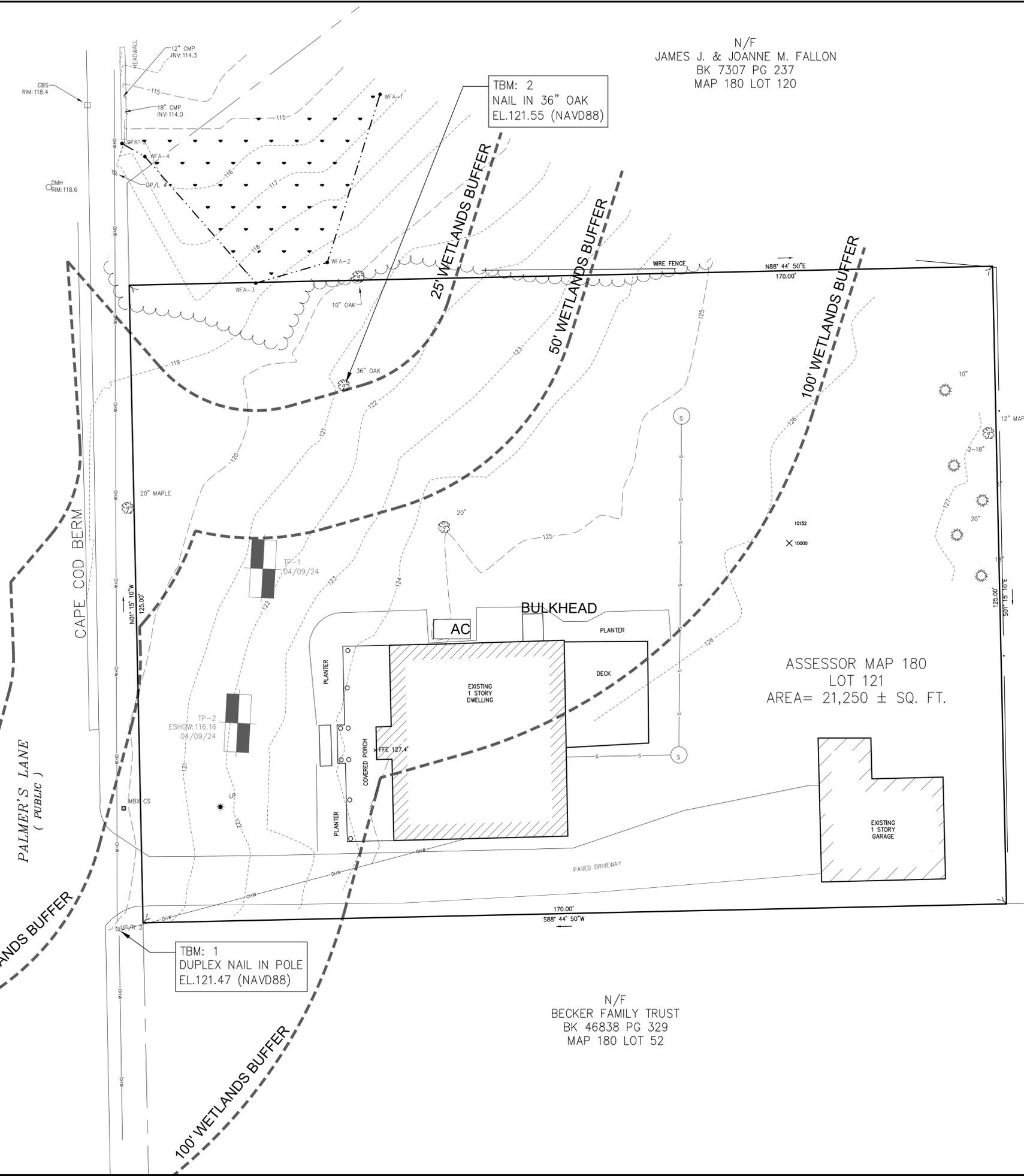
- WFA-8 WETLAND FLAG
- LIGHT POLE
- UTILITY POLE
- MAILBOX
- AC UNIT
- TREE
- DECIDUOUS TREE
- SQUARE CATCH BASIN
- STORM MANHOLE
- SEWER MANHOLE



LOCUS MAP
SCALE: 1"=300'



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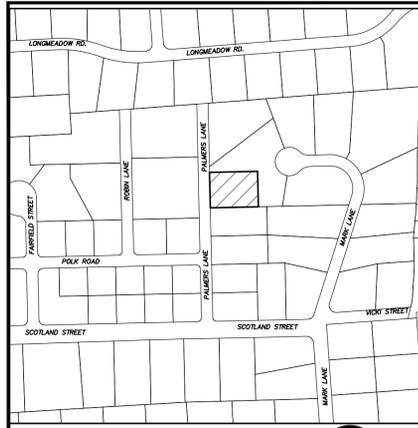
N/F
JAMES J. & JOANNE M. FALLON
BK 7307 PG 237
MAP 180 LOT 120

TBM: 2
NAIL IN 36" OAK
EL.121.55 (NAVD88)

TBM: 1
DUPLIX NAIL IN POLE
EL.121.47 (NAVD88)

ASSESSOR MAP 180
LOT 121
AREA= 21,250 ± SQ. FT.

N/F
BECKER FAMILY TRUST
BK 46838 PG 329
MAP 180 LOT 52



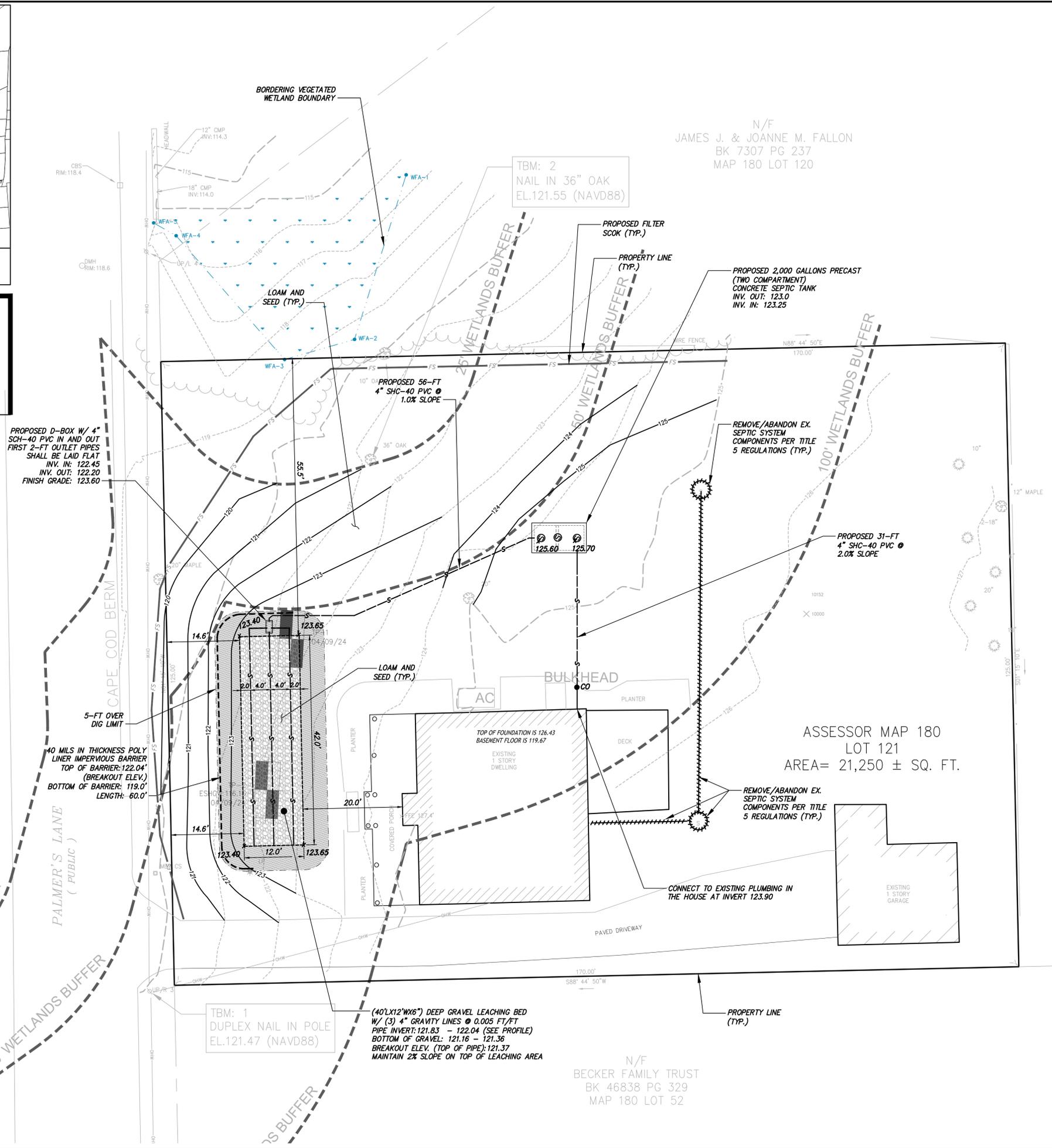
LOCUS MAP

SCALE: 1"=300'



SEPTIC ABANDONMENT NOTES PER TITLE 5:

1. WITHIN 14 DAYS PRIOR TO DISCONTINUANCE OF USE OF A SYSTEM, THE FACILITY OWNER SHALL APPLY TO THE APPROVING AUTHORITY TO ABANDON THE EXISTING SYSTEM;
2. UPON RECEIPT OF THE APPROVING AUTHORITY'S WRITTEN APPROVAL TO ABANDON THE SYSTEM, THE SEPTIC TANK SHALL BE PUMPED OF ITS ENTIRE CONTENTS BY A LICENSED SEPTAGE HAULER.
3. THE TANK SHALL BE EXCAVATED AND REMOVED FROM THE SITE, OR THE BOTTOM OF THE TANK SHALL BE OPENED OR RUPTURED AFTER BEING PUMPED OF ITS CONTENTS SO AS TO PREVENT RETAINAGE OF WATER AND THE TANK SHALL BE COMPLETELY FILLED WITH CLEAN SAND OR OTHER SUITABLE MATERIAL APPROVED IN WRITING BY THE APPROVING AUTHORITY.



GENERAL NOTES:

1. THE EXISTING CONDITIONS INFORMATION SHOWN HEREON IS THE RESULT OF AN ON-THE-GROUND SURVEY PERFORMED BY CHA CONSULTING, INC. IN JULY OF 2024.
2. ALL DEED REFERENCES ARE TO PLYMOUTH COUNTY REGISTRY OF DEEDS UNLESS OTHERWISE NOTED.
3. LOCUS OWNER OF RECORD:
NEAL J. & COLLEEN N. O'DRISCOLL
DEED BOOK 34694 PAGE 290
MAP 180 LOT 121
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IN THE EVENT THAT BENCHMARKS (TBM'S), ESTABLISHED FOR THIS PROJECT AND PUBLISHED ON THIS SURVEY ARE DESTROYED, NOT RECOVERABLE OR A DISCREPANCY IS FOUND, THE USER SHOULD NOTIFY THIS FIRM IN WRITING PRIOR TO COMMENCING OR CONTINUING ANY WORK.
5. THE PROJECT AREA IS LOCATED IN FLOOD ZONE "X" AREAS OF MINIMAL FLOODING AS SHOWN ON FLOOD INSURANCE RATE MAP FOR PLYMOUTH COUNTY, COMMUNITY PANEL NUMBER 25023C0084K, EFFECTIVE DATE JULY 03, 2024.
6. LOCATION OF SUBSURFACE UTILITIES SHOWN HEREON ARE APPROXIMATE AND ADDITIONAL UTILITIES MAY EXIST THAT ARE NOT SHOWN ON THIS PLAN. LOCATIONS ARE COMPILED FROM UTILITY PLANS OF RECORD AND DIG-SAFE FIELD MARKINGS. RIM AND INVERT INFORMATION HAS BEEN COMPILED AND FIELD VERIFIED WHERE POSSIBLE. THIS INFORMATION IS NOT TO BE USED FOR CONSTRUCTION. PRIOR TO ANY CONSTRUCTION, CONTACT DIG-SAFE (811) TO FIELD VERIFY LOCATION OF ALL UTILITIES.

SEPTIC SYSTEM GENERAL NOTES:

1. NO KNOWN DRINKING WATER WELLS (PUBLIC OR PRIVATE) WITHIN 500 FEET OF THE PROPOSED SEWAGE DISPOSAL SYSTEM.
2. THE SITE IS NOT LOCATED IN ZONE II WELLHEAD PROTECTION AREA IN ACCORDANCE WITH MASSGIS'S ONLINE MAPPING TOOL.
3. UPON COMPLETION OF THE SEPTIC SYSTEM INSTALLATION, THE DESIGN ENGINEER SHALL CERTIFY TO THE BOARD OF HEALTH THAT THE SEPTIC SYSTEM HAS BEEN CONSTRUCTED IN ACCORDANCE WITH THE APPROVED PLANS.
4. A SEPTIC AS-BUILT PLAN SHOWN ALL UTILITY SERVICES AND A CERTIFICATE OF COMPLIANCE REQUEST SHALL BE SUBMITTED TO THE BOARD OF HEALTH PRIOR TO OCCUPANCY OF THE BUILDING.

SOIL TEST DATA:

DATE: 04/09/2024
PERFORMED BY HAZEM DANI, SE#13902
WITNESSED BY BETTY NEE, SE#14026

TP-1	EL=121.80
"AP" DEPTH: 0"-14" SANDY LOAM (10YR3) REDOX: NONE GRANULAR FRIABLE	STANDING WATER @ 90"
"BW" DEPTH: 14"-46" SANDY LOAM (10YR3) REDOX: NONE MASSIVE FRIABLE 10% GRAVEL	
"C" DEPTH: 46"-108" SAND AND GRAVEL (10YR3) REDOX: NONE SINGLE GRAIN LOOSE	

TP-2	EL=122.50
FILL DEPTH: 0"-18" SANDY LOAM	WEeping @ 98"
"AP" DEPTH: 18"-30" SANDY LOAM (10YR3) REDOX: NONE GRANULAR FRIABLE	
"BW" DEPTH: 30"-48" SANDY LOAM (10YR3) REDOX: NONE MASSIVE FRIABLE 10% GRAVEL	
"C1" DEPTH: 48"-72" GRAVELY SAND AND GRAVEL (10YR6/4) REDOX: NONE SINGLE GRAIN LOOSE	
"C2" DEPTH: 72"-120" FINE-MEDIUM SAND (10YR3) REDOX: 76% 7.5YR % SINGLE GRAIN LOOSE	
E.S.H.G.W. DEPTH: 72"-120" FINE-MEDIUM SAND (10YR3) REDOX: 76% 7.5YR % SINGLE GRAIN LOOSE	

PERCOLATION TESTS SUMMARY (TP-2)

LOCATION #	DATE	DEPTH	STABILIZED RATE	PASS / FAIL
TP-2	4/9/2024	40"-58"	LESS THAN 2 MIN/INCH	PASS



SEPTIC REPAIR PLAN

FOR
9 Palmers Lane,
Hingham
Massachusetts

PARCEL ID:
180-0-121



OWNER: Neal & Colleen
O'Driscoll

SEPTIC SYSTEM REPAIR
FOR
EXISTING
3-BEDROOM
SINGLE-FAMILY HOME

No.	Submittal / Revision	App'd. By	Date

SEPTIC REPAIR PLAN

Designed By:	Drawn By:	Checked By:
HD	HD	KK

Issue Date: 10/09/2023
Project No: -
Scale: As Shown

Drawing No.:
C-100

File: V:\OH_DATA\OFFICES\MM78\00\HINGHAM\9 PALMERS LANE\0-100 SITE PLAN.DWG
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 Saved: 2/25/2025 2:04:32 PM Plotted: 2/25/2025 3:12:44 PM Current User: Dmi, Hozem, Lusa(SavedBy: 5400)



NOTES:

1. NO KNOWN DRINKING WATER WELLS (PUBLIC OR PRIVATE) WITHIN 500 FEET OF THE PROPOSED SEWAGE DISPOSAL SYSTEM.
2. THE SITE IS LOCATED IN ZONE II WELLHEAD PROTECTION AREA IN ACCORDANCE WITH MASSGIS'S ONLINE MAPPING TOOL, NORWELL WATER DEPARTMENT AND WEIR RIVER WATER SYSTEM.
3. THE SITE IS LOCATED IN THE ACCORD BROOK WEIR RIVER WATER SYSTEM SURFACE WATER PROTECTION (ZONE A).
4. MAP AND PARCEL INFORMATION AS SHOWN TAKEN FROM THE TOWN OF HINGHAM ASSESSORS OFFICE.
5. LOCATION OF NEAR WELLS AND SEPTIC SYSTEMS IS APPROXIMATE ONLY, AND BASED ON AVAILABLE INFORMATION FROM THE BOARD OF HEALTH OFFICE AND MASSDEP DATABASE.
6. THE CONTRACTOR SHALL COORDINATE WITH THE DESIGN ENGINEER/BOARD OF HEALTH FOR SYSTEM INSTALLATION AND INSPECTIONS. THE SYSTEM INSTALLATION INSPECTIONS SHALL INCLUDE THE FOLLOWING:
 - a. BOTTOM OF BED INSPECTION, VERIFICATION OF SOIL MATERIAL AND GROUNDWATER AND REMOVAL OF UNSUITABLE MATERIAL IF ANY.
 - b. INSPECTION OF TITLE-5 PERC SAND USED FOR FILL.
 - c. INSPECTION(S) OF LEACHING AREAS, SEPTIC TANK AND D-BOX PRIOR TO BACKFILL.
 - d. FINAL GRADING AND STABILIZATION INSPECTION.
7. UPON COMPLETION OF THE SEPTIC SYSTEM INSTALLATION, THE DESIGN ENGINEER SHALL CERTIFY TO THE BOARD OF HEALTH THAT THE SEPTIC SYSTEM HAS BEEN CONSTRUCTED IN ACCORDANCE WITH THE APPROVED PLANS.
7. A SEPTIC AS-BUILT PLAN SHOWN ALL UTILITY SERVICES AND A CERTIFICATE OF COMPLIANCE REQUEST SHALL BE SUBMITTED TO THE BOARD OF HEALTH PRIOR TO OCCUPANCY OF THE BUILDING.

LEGEND

-  INDICATES A WELLHEAD PROTECTION AREA (ZONE II)
-  INDICATES A WELLHEAD PROTECTION AREA (ZONE I)
-  INDICATES SURFACE WATER SUPPLY PROTECTION AREA (ZONE A)

CHA
 141 Longmeadow Drive, Suite 104
 Norwell, MA 02061-1620
 781-982-5400 www.chacompanies.com



0 60 120
 Scale in feet

SEPTIC REPAIR PLAN
 FOR
 9 Palmers Lane,
 Hingham
 Massachusetts

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 180-0-121



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 O'Driscoll
 SEPTIC SYSTEM REPAIR
 FOR
 EXISTING
 3-BEDROOM
 SINGLE-FAMILY HOME

No.	Submittal / Revision	App'd. By	Date

BOARD OF HEALTH SUBMISSION KK HD 02/25/25

OVERALL LAYOUT PLAN

Designed By: Drawn By: Checked By:
 Issue Date: 10/09/2023 Project No: - Scale: 1"=50'

Drawing No.:
C-101

