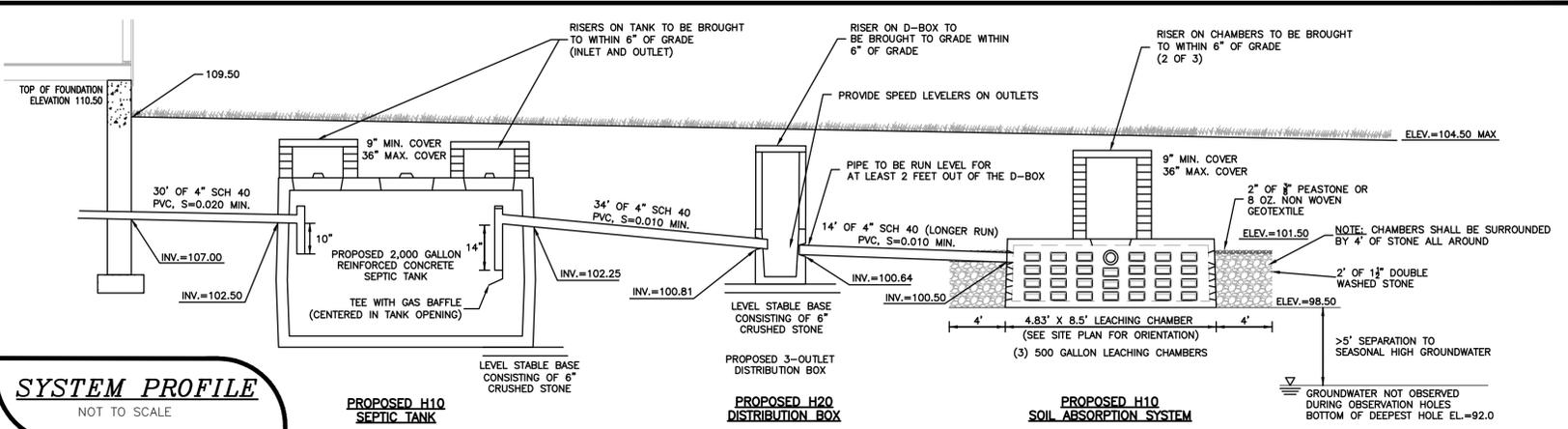


**LOCUS**  
SCALE 1"=1000'

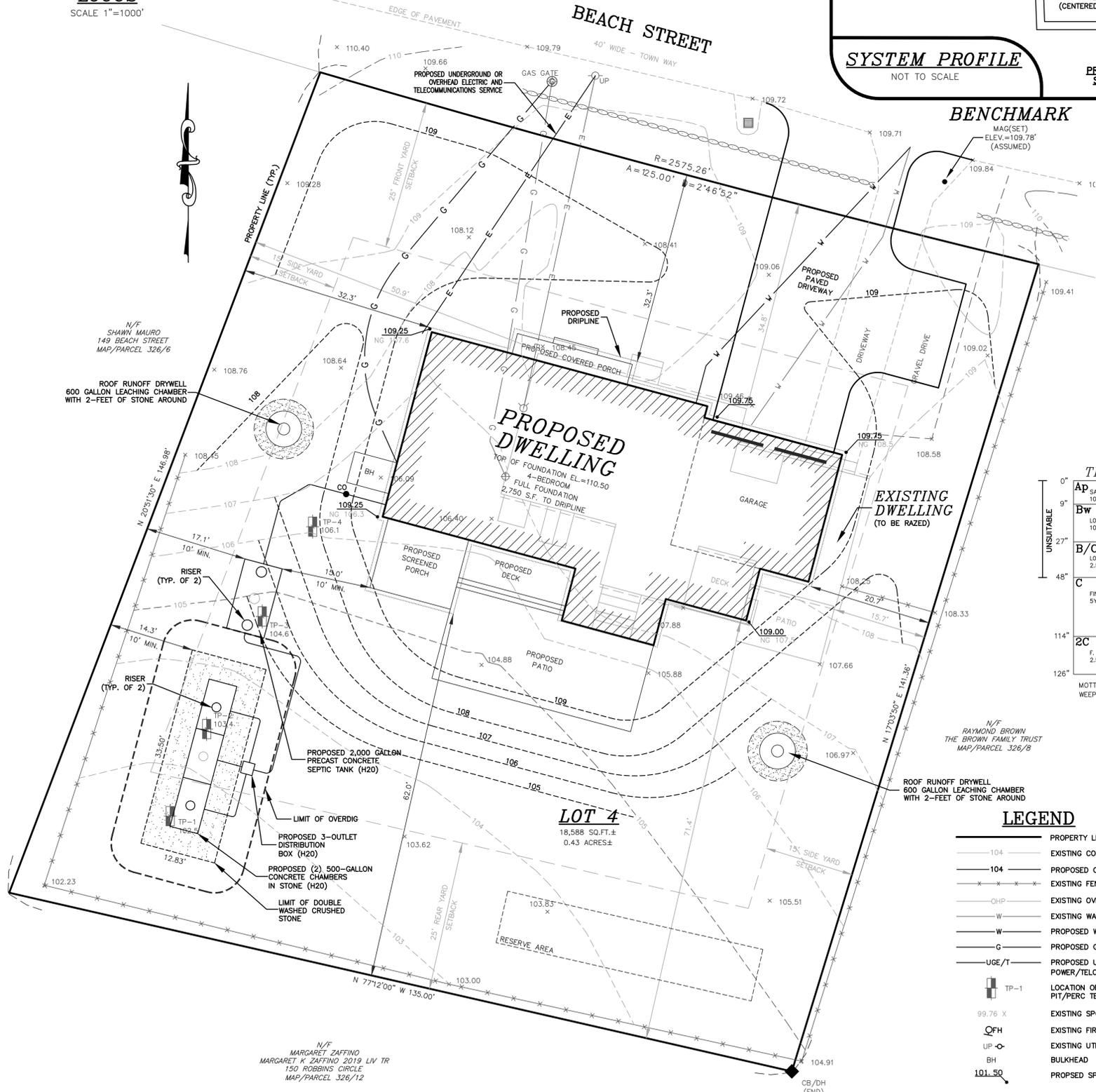


**SYSTEM PROFILE**  
NOT TO SCALE

**PROPOSED H10 SEPTIC TANK**

**PROPOSED H20 DISTRIBUTION BOX**

**PROPOSED H10 SOIL ABSORPTION SYSTEM**



**BENCHMARK**  
MAG(SET)  
ELEV.=109.78'  
(ASSUMED)

**SITE INFORMATION**

ADDRESS: 141 BEACH STREET, DENNIS MA 02638  
ASSESSORS MAP/PARCEL: 326/7  
DEED REF: 36254/267  
PLAN REF: 177/65, 212/105, 224/23

**DESIGN CALCULATIONS**

**DESIGN FLOW**  
110 GALLONS/DAY/BEDROOM X 4 BEDROOMS = 440 GALLONS/DAY  
**TANK CAPACITY**  
450% DAILY FLOW = 1,980 GALLONS; USE 2,000 GALLON TANK  
**REQUIRED LEACHING CAPACITY**  
DESIGN PERC RATE = < 2 MIN/INCH  
440 GPD / 0.74 GALLONS PER DAY PER SQ. FT. = 594.59 SQ. FT.  
**PROVIDED LEACHING CAPACITY**  
BOTTOM AREA = 12.83' X 33.50' = 429.80 SQ. FT.  
SIDE AREA = 92.66' X 2.00' = 185.32 SQ. FT.  
**PROVIDED FLOW CAPACITY** = 455.18 GPD



DATE: MARCH 11, 2025  
PERFORMED BY: RICK JUDD, SE, RS  
WITNESSED BY: GRACE MELLILO

TP-1	TP-2	TP-3	TP-4
0" Ap SANDY LOAM 10YR 3/2	0" Ap SANDY LOAM 10YR 3/2	0" Ap SANDY LOAM 10YR 3/2	0" Ap SANDY LOAM 10YR 2/2
9" Bw LOAMY F. SAND 10YR 4/3	9" Bw LOAMY F. SAND 10YR 4/3	9" Bw LOAMY F. SAND 10YR 4/3	9" Bw LOAMY F. SAND 10YR 5/4
27" B/C LOAMY F. SAND 2.5Y 5/3	27" B/C LOAMY F. SAND 2.5Y 5/3	27" B/C LOAMY F. SAND 2.5Y 5/3	27" B/C LOAMY F. SAND 2.5Y 5/4
48" C FINE SAND 5YR 5/6	48" C FINE SAND 7.5YR 6/6	48" C FINE SAND 7.5YR 6/4	48" C FINE SAND 2.5Y 5/4
114" 2C F. SANDY LOAM 2.5Y 6/2			
126" MOTTLING: NONE WEeping: NONE			

**SOIL PROFILES**  
NOT TO SCALE

**EXISTING GRADE PLANE CALCULATION**

107.5 + 108.5 + 107.6 + 106.3 = 107.5'  
4  
AVERAGE NATURAL GRADE (A.N.G.) = ELEV. 107.5'  
TOP OF PROPOSED DWELLING = ELEV. 138.17'  
HEIGHT OF BUILDING (T.O.F. TO RIDGE) = 27.67'  
HEIGHT OF PROPOSED BUILDING ABOVE A.N.G. = 30.67'

**REQUIRED TOWN OF DENNIS HEALTH DEPT INSPECTIONS**

INSPECTION OF UNSUITABLE MATERIAL REMOVAL
VERIFICATION OF SOIL CONDITIONS AND/OR GROUNDWATER ELEVATION
VERIFICATIONS OF CESSPOOL/LEACHPIT ABANDONMENT/REMOVAL
INSPECTION OF FLOW BARRIER INSTALLATION
INSPECTION OF 3" - 1 1/2" STONE PRIOR TO PLACEMENT
FINAL INSPECTION OF ALL COMPONENTS PRIOR TO BACKFILL
FINAL GRADING INSPECTION

**GENERAL NOTES:**

- NONE OF THE SUBJECT PROPERTY IS WITHIN THE LIMITS OF A FEMA FLOOD HAZARD ZONE AS SHOWN ON PANEL NO. 25001C0577J, EFFECTIVE DATE JULY 16, 2014.
- THERE ARE NO STREAMS OR WETLANDS WITHIN 100- FEET OF THE PROPOSED WORK.
- THE SITE IS NOT LOCATED WITHIN A ZONE II AREA.
- VERTICAL DATUM IS ASSUMED
- ALL WORK SHALL CONFORM TO THE TOWN OF DENNIS AND THE COMMONWEALTH OF MASSACHUSETTS CONSTRUCTION STANDARDS AND REGULATIONS.
- ALL JOINTS IN THE TANK AND DISTRIBUTION BOX SHALL BE MADE WATER TIGHT THROUGH THE USE OF ASPHALT OR SYNTHETIC POLYMER SEALERS OR HYDRAULIC CEMENT.
- ALL UTILITIES SHOWN ON THIS PLAN ARE APPROXIMATE ONLY AND SHALL BE FIELD VERIFIED. DIGSAFE AND LOCAL UTILITY COMPANIES SHALL BE CONTACTED PRIOR TO ANY EXCAVATION OCCURRING.
- THE SEPTIC SYSTEM INSTALLER SHALL NOTIFY THE DESIGN ENGINEER 2 DAYS PRIOR TO BEGINNING INSTALLATION OF THE SYSTEM TO ALLOW FOR SCHEDULING OF INSPECTIONS
- WHERE APPLICABLE, UNSUITABLE MATERIAL (A, B AND C HORIZONS OR FILL) ENCOUNTERED BELOW THE INVERT OF THE INLET TO THE SOIL ABSORPTION SYSTEM, SHALL BE REMOVED TO A DISTANCE 5' AROUND THE SYSTEM AND BROUGHT BACK TO THE APPROPRIATE ELEVATION WITH CLEAN SAND PER MASSACHUSETTS 310 CMR 15.00 REGULATIONS.
- NO PRIVATE WATER SUPPLY WELLS EXIST WITHIN 100' OF THE PROPOSED SYSTEM.
- NO GRAVEL PACKED PUBLIC WATER SUPPLY WELLS OR SURFACE WATER SUPPLY EXIST WITHIN 400' OF THE PROPOSED SUBSURFACE SEWAGE DISPOSAL SYSTEM.
- THIS DESIGN DOES NOT ALLOW FOR THE USE OF A GARBAGE GRINDER
- ELECTRIC SERVICE INSTALLATION SHALL BE COORDINATED WITH EVERSOURCE AND OWNER OR THE OWNER'S CONTRACTOR.
- TELEPHONE AND CABLE SERVICE LOCATION AND CONNECTION DETAILS SHALL BE COORDINATED WITH VERIZON, COMCAST AND THE OWNER OR OWNER'S CONTRACTOR.
- THE CONTRACTOR SHALL BE RESPONSIBLE TO ENSURE THAT ALL UTILITY SEPARATION MEET CODE AND THE REQUIREMENTS OF THOSE UTILITY COMPANIES HAVING JURISDICTION.
- WATER SERVICE CONNECTIONS SHALL BE COORDINATED BETWEEN THE TOWN OF DENNIS WATER DEPARTMENT AND THE OWNER OR CONTRACTOR.
- EXISTING CONDITIONS SURVEY PERFORMED BY PAUL E. SWEETSER, P.L.S., MARCH 2025

**ZONING REQUIREMENTS**

ZONING DISTRICT: R-40	REQUIRED	EXISTING	PROPOSED
MINIMUM LOT AREA	40,000 SF	18,588 SF	18,588 SF
MINIMUM FRONTAGE	100'	125.00'	125.00'
MINIMUM FRONT YARD SETBACK	25'	34.8'±	32.3'±
MINIMUM SIDE YARD SETBACK	15'	(R)50.9'±/(L)15.7'±	(R)32.3'±/(L)20.7'±
MINIMUM REAR YARD SETBACK	25'	71.4'±	62.0'±
MAXIMUM PERCENT TOTAL BLDG COVERAGE *	15%	8.4%±	14.8%±
MAXIMUM BUILDING HEIGHT ABOVE A.N.G. *	35'		30.67'±

\* BUILDING COVERAGE MEASURED TO THE DRIFLINE  
\* A.N.G. - AVERAGE NATURAL GRADE

**AM SITE DESIGN, LLC**  
4 CRESTVIEW DRIVE  
EAST SANDWICH, MA 02537  
PHONE: (508) 400-2365  
Residential Site Design and Permitting

**LOCATION:**  
141 BEACH STREET  
DENNIS, MA

**CLIENT:**  
PETER AND NANCY SALEM  
11 GRAY TERRACE  
BEDFORD, MA 01730

**DRAWING TITLE:**  
SUBSURFACE SEWAGE DISPOSAL SYSTEM  
SITE PLAN AND PROFILE

SCALE: 1"=10' DATE: 4/8/2025 DRAWING NO. 1 OF 1

REVISIONS		
NO.	DATE	DESCRIPTION

**LEGEND**

- 104 PROPERTY LINE
- 104 EXISTING CONTOUR
- 104 PROPOSED CONTOUR
- EXISTING FENCE
- OHP EXISTING OVERHEAD UTILITIES
- W EXISTING WATER LINE
- W PROPOSED WATER LINE
- G PROPOSED GAS LINE
- UGE/T PROPOSED UNDERGROUND POWER/TELCOMM
- TP-1 LOCATION OF TEST PIT/PERC TEST
- 99.76 X EXISTING SPOT ELEVATION
- OFH EXISTING FIRE HYDRANT
- UP EXISTING UTILITY POLE
- BH BULKHEAD
- 101.50 PROPOSED SPOT GRADE

N/F  
MARGARET ZAFFINO  
MARGARET K ZAFFINO 2019 LV TR  
150 ROBBINS CIRCLE  
MAP/PARCEL 326/12