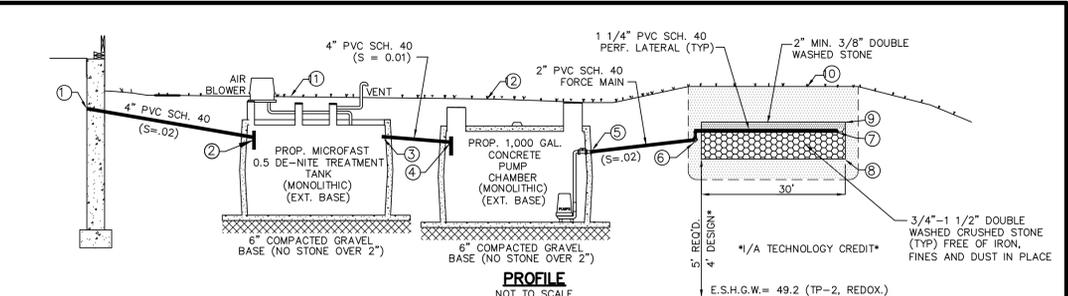
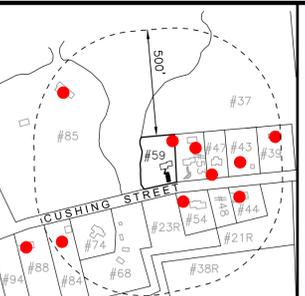
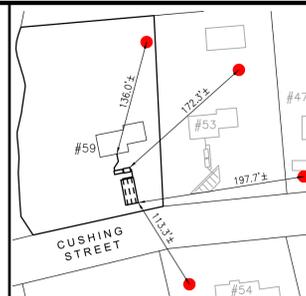


ZONING TABLE

RESIDENCE B ZONE & GROUNDWATER PROTECTION OVERLAY DISTRICT	REQUIRED	EXISTING	PROPOSED
MIN. LOT AREA	30,000 S.F.	38,492± S.F.	NO CHANGE
FRONTAGE	150'	157'	NO CHANGE
FRONT YARD SETBACK	35'	71.5'	66.6'
SIDE YARD SETBACK	20'	15.8'	NO CHANGE
REAR YARD SETBACK	20'	122.8'	95.5'
HEIGHT	35'	<35'	(SEE ARCHITECTURAL PLANS)
STORIES	2.5	2	(SEE ARCHITECTURAL PLANS)



ABUTTING SEPTIC SYSTEM & WELLS WITHIN 250'
SCALE: APPROX 1" = 100'

● = PRIVATE POTABLE WELL*

*WELL LOCATIONS WERE COMPILED USING AVAILABLE GIS DATA AND BOARD OF HEALTH RECORDS

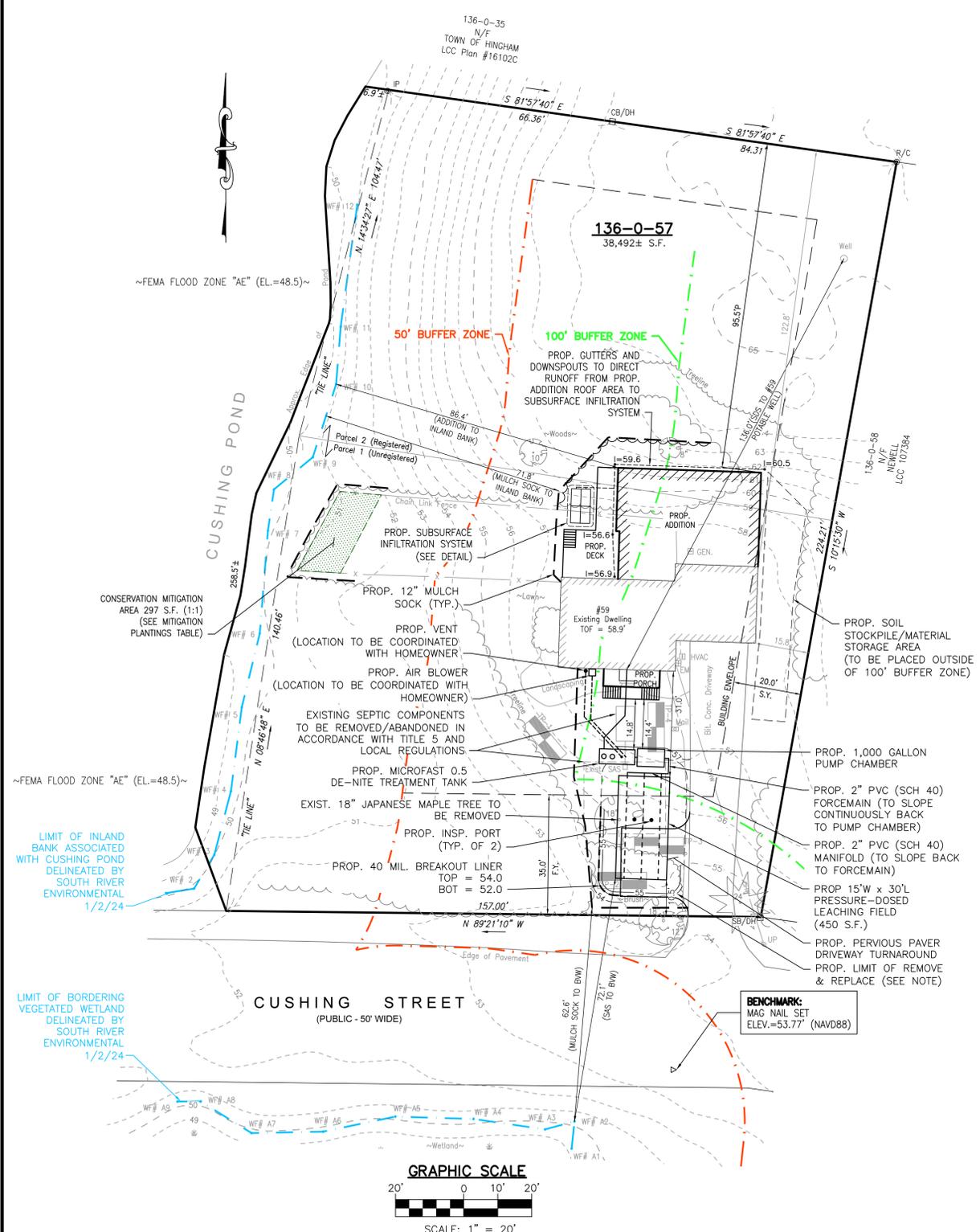
500' RADIUS WELL LOCATIONS
SCALE: APPROX 1" = 400'

● = PRIVATE POTABLE WELL*

*WELL LOCATIONS WERE COMPILED USING AVAILABLE GIS DATA AND BOARD OF HEALTH RECORDS

SCHEDULE OF ELEVATIONS

1. INV. OF PIPE AT HOUSE FOUNDATION = 54.4± (CONTRACTOR TO VERIFY PRIOR TO CONSTRUCTION)	7. INVERT OF 1 1/2" PVC LATERAL = 53.70 (LAID LEVEL)
2. INV. OF PIPE AT MICROFAST TANK INLET = 53.05	8. BOTTOM OF STONE = 53.20
3. INV. OF PIPE AT MICROFAST TANK OUTLET = 52.80	9. TOP OF PEASTONE (BREAKOUT) = 54.00
4. INV. OF PIPE AT PUMP CHAMBER INLET = 52.75	10. FINISHED GRADE OVER LEACHING FACILITY = 55.0 (MIN) - 57.0 (MAX)
5. INV. OF PIPE AT PUMP CHAMBER OUTLET = 53.00	11. FINISHED GRADE OVER TREATMENT TANK = 55.8 (MIN) - 57.1 (MAX)
6. INV. OF PIPE AT MANIFOLD = 53.20	12. FINISHED GRADE OVER PUMP CHAMBER = 54.8 (MIN) - 57.0 (MAX)



SOIL TEST DATA

SOIL TESTING AND EVALUATION BY: GREGORY J. MORSE, P.E., S.E.#2906
SOIL TESTING WITNESSED BY: PATRICK BRENNAN, P.E.
DATE: OCTOBER 8TH, 2024

TP-1 APPROX. GRADE EL. 55.5	TP-2 APPROX. GRADE EL. 54.5
EL. 55.2 A HORIZON SANDY LOAM 10YR 3/2 C1 HORIZON MEDIUM SAND 2.5Y 5/4 C2 HORIZON FINE SAND 2.5Y 5/3	EL. 53.5 A HORIZON SANDY LOAM 10YR 3/2 B HORIZON LOAMY SAND 10YR 5/6 C1 HORIZON MEDIUM SAND 2.5Y 5/4 C2 HORIZON FINE SAND 2.5Y 5/4
EL. 49.8 C1 HORIZON MEDIUM SAND 2.5Y 5/4 C2 HORIZON FINE SAND 2.5Y 5/3	EL. 52.0 C1 HORIZON MEDIUM SAND 2.5Y 5/4 C2 HORIZON FINE SAND 2.5Y 5/4
EL. 45.5 WEEPING OBSERVED: 102" MOTTLING OBSERVED: 68" PERC. RATE: <2 MPI @ 24-42" ESHGW: 68" (EL. 49.8)	EL. 49.8 C2 HORIZON FINE SAND 2.5Y 5/4 WEEPING OBSERVED: 84" MOTTLING OBSERVED: 64" PERC. RATE: <2 MPI @ 32-50" ESHGW: 64" (EL. 49.2)

TP-3 APPROX. GRADE EL. 55.3	TP-4 APPROX. GRADE EL. 57.8
EL. 54.6 FILL/LOAM C1 HORIZON MEDIUM SAND 2.5Y 5/4 C2 HORIZON FINE SAND 2.5Y 5/8	EL. 57.2 A HORIZON SANDY LOAM 10YR 3/2 C1 HORIZON MEDIUM SAND 2.5Y 5/6 C2 HORIZON FINE SAND 2.5Y 5/4
EL. 46.3 C1 HORIZON MEDIUM SAND 2.5Y 5/4 C2 HORIZON FINE SAND 2.5Y 5/8	EL. 50.8 C1 HORIZON MEDIUM SAND 2.5Y 5/6 C2 HORIZON FINE SAND 2.5Y 5/4
EL. 45.3 WEEPING OBSERVED: NONE MOTTLING OBSERVED: 100" PERC. RATE: 3 MPI @ 12-30" ESHGW: 100" (EL. 47.0)	EL. 48.8 WEEPING OBSERVED: NONE MOTTLING OBSERVED: 84" PERC. RATE: <2 MPI @ 26-44" ESHGW: 84" (EL. 50.8)

REQUIRED CONSERVATION MITIGATION TABLE:

INCREASE OF IMPERVIOUS ROOF	SIZE	MITIGATION
297 S.F.	297 S.F.	(1:1) IN 100' BUFFER

MITIGATION PLANTINGS TABLE:

SPECIES	SIZE	CONTAINER	NOTES	QUANTITY
SWEET PEPPERBUSH (CLETHRA ALNIFOLA)	3-4 FEET	2 GAL.	SHRUB	5
BLACK CHERRY (PRUNUS SEROTINA)	3-4 FEET	2 GAL.	SHRUB	5
BLACKBERRY (RUBUS LATENS)	3-4 FEET	2 GAL.	SHRUB	5
WHITE OAK (QUERCUS ALBA)	3-4 FEET	BALL & BURLAP	TREE	2
WHITE PINE (PINUS STROBUS)	3-4 FEET	BALL & BURLAP	TREE	2

MITIGATION NOTES:

- PLANTING TO BE OVERSEEN BY A LANDSCAPE ARCHITECT OR BOTANIST.
- PRIOR TO START OF WORK, EROSION CONTROL BARRIERS SHOULD BE INSTALLED ALONG THE DOWNGRADIENT EDGE OF THE MITIGATION AREA.
- PRIOR TO PLANTING, THE EXISTING LAWN AREA WITHIN THE MITIGATION AREA SHOULD BE TURFED-OFF TO EXPOSE THE NATIVE TOPSOIL.
- THE MITIGATION AREA SHOULD BE HAND PLANTED WITH A MIXTURE OF NATIVE SAPPLINGS AND SHRUBS.
- UPON COMPLETION OF PLANTING, THE ROOT ZONES OF THE SAPPLINGS AND SHRUBS SHOULD BE MULCHED WITH A LAYER OF NATURAL WOOD CHIPS. THE REMAINDER OF THE MITIGATION AREA SHALL BE TREATED WITH A NATIVE SEED MIX.
- THE EROSION CONTROL BARRIERS WILL BE DISASSEMBLED AND PROPERLY DISPOSED OF ONCE ALL SITE WORK HAS BEEN COMPLETED AND THE MITIGATION AREA HAS BEEN FULLY STABILIZED.
- IRRIGATION AND PRUNING (AS NECESSARY) WILL BE ESTABLISHED BY THE APPLICANT TO MAINTAIN HEALTHY VEGETATION.
- THE MITIGATION AREA WILL BE INSPECTED EACH FALL FOR NON-NATIVE INVASIVE OR UNWANTED PLANTS FOR A TWO-YEAR PERIOD. IF NON-NATIVE INVASIVE SPECIES ARE FOUND, THEY WILL BE UPROOTED AND REMOVED FROM THE AREA.

1/A TECHNOLOGY CREDIT

- TO ALLOW A 24.4% REDUCTION IN THE PROPOSED SAS SIZE (UP TO 50% REDUCTION ALLOWABLE WITH SECONDARY TREATMENT UNIT).
- TO ALLOW A REDUCTION FROM 5-FT. TO 4-FT. OF SEPARATION BETWEEN THE BOTTOM OF THE SAS AND THE SEASONAL HIGH GROUNDWATER TABLE (DOWN TO 3-FT. REDUCTION ALLOWABLE WITH SECONDARY TREATMENT UNIT)

HINGHAM BOARD OF HEALTH VARIANCE REQUEST

- SECTION VII.M(1):**
TO ALLOW A REDUCTION FROM 6' (REQ'D) TO 2.8' (PROP) OF NATURALLY OCCURRING PERVIOUS STRATA ABOVE MAXIMUM GROUNDWATER ELEVATION.
- SECTION VII.J:**
TO ALLOW A REDUCTION FROM 6' (REQ'D) TO 2.8' (PROP) BETWEEN THE BOTTOM OF THE SOIL ABSORPTION FIELD AND MAXIMUM GROUNDWATER ELEVATION.
- SECTION VII.E:**
TO ALLOW A REDUCTION FROM 100' (REQ'D) TO 72.1' (PROP) BETWEEN THE SEWAGE DISPOSAL SYSTEM AND BORDERING VEGETATED WETLANDS.
- SECTION VII.F(2):**
TO ALLOW A REDUCTION FROM 250' (REQ'D) TO 197.7' (PROP) BETWEEN THE SEWAGE DISPOSAL SYSTEM AND A PRIVATE POTABLE WELL (SERVICING 47 CUSHING STREET).
- SECTION VII.F(2):**
TO ALLOW A REDUCTION FROM 250' (REQ'D) TO 172.3' (PROP) BETWEEN THE SEWAGE DISPOSAL SYSTEM AND A PRIVATE POTABLE WELL (SERVICING 53 CUSHING STREET).
- SECTION VII.F(2):**
TO ALLOW A REDUCTION FROM 250' (REQ'D) TO 113.3' (PROP) BETWEEN THE SEWAGE DISPOSAL SYSTEM AND A PRIVATE POTABLE WELL (SERVICING 54 CUSHING STREET).
- SECTION VII.F(2):**
TO ALLOW A REDUCTION FROM 250' (REQ'D) TO 136.0' (PROP) BETWEEN THE SEWAGE DISPOSAL SYSTEM AND A PRIVATE POTABLE WELL (SERVICING 59 CUSHING STREET).

REMOVE & REPLACE NOTE

CONTRACTOR TO EXCAVATE ALL UNSUITABLE MATERIAL TO A DEPTH OF C1 HORIZON (30"±) DIRECTLY UNDER & WITHIN 5' OF PROPOSED LEACHING AREA AND REPLACE CLEAN TITLE 5 PERC SAND TO TOP OF PEASTONE ELEVATION.

VOL. OF PEASTONE = (15'W x 30'L x 0.17'D) / 27 = 3 C.Y.±

VOL. OF DOUBLE WASHED STONE = (15'W x 30'L x 0.60'D) / 27 = 10 C.Y.±

VOL. OF SAND = (25'W x 40'L x (54.0 - 52.0)D) / 27 = 89 C.Y. - 3 C.Y. - 10 C.Y. = 76 C.Y.±

*CONTRACTOR TO REMOVE ALL CONTAMINATED SOILS ASSOCIATED WITH EXIST. SAS WITHIN 5' OF PROPOSED LEACHING AREA AND REPLACE WITH CLEAN TITLE 5 SAND.

DESIGN DATA

- BUILDING TYPE: SINGLE FAMILY DWELLING
- NUMBER OF BEDROOMS: 4
- DESIGN FLOW: 4 x 110 GPD/BEDROOM = 440 GPD (GALLONS PER DAY)
- DESIGN PERCOLATION RATE: 3 MPI (TP-3, CLASS I)
- GARBAGE DISPOSAL: NO
- SEPTIC TANK DESIGN REQUIREMENT: 200% DESIGN FLOW
- 440 x 2 = 880 GAL. (PROVIDE NEW 1,500 GALLON SEPTIC TANK)
- LEACH AREA REQUIREMENTS (GALLONS PER DAY / SQUARE FOOT)
BOTTOM: 0.74 GPD/S.F. SIDE: 0.74 GPD/S.F.
- TOTAL LEACH AREA REQUIRED:
TITLE 5: 440 GPD / (0.74 GPD/S.F.) = 595 S.F.
PROVIDED: 15'W x 30' CONVENTIONAL LEACHING FIELD (450 S.F.) (24.4% SIZE REDUCTION, UP TO 50% ALLOWABLE PER 1/A CREDITS)

GENERAL NOTES

- SEPTIC SYSTEM INSTALLATION CONTRACTORS SHALL BE LICENSED BY THE BOARD OF HEALTH AND MUST COMPLY WITH ALL REQUIREMENTS OF THE BOARD OF HEALTH DISPOSAL WORKS CONSTRUCTION PERMIT AND ANY CONDITIONS, IF ISSUED BY THE CONSERVATION COMMISSION.
- ALL CONSTRUCTION MUST COMPLY WITH TITLE 5 OF THE STATE ENVIRONMENTAL CODE 310 CMR 15 & THE ANY LOCAL BOARD OF HEALTH SUPPLEMENTAL REGULATIONS.
- THERE SHALL BE NO CHANGES MADE IN THIS PLAN WITHOUT THE WRITTEN PERMISSION OF THE BOARD OF HEALTH AND DESIGN ENGINEER.
- ANY CHANGE IN SITE CONDITIONS, DISCREPANCIES, ERRORS OR OMISSIONS SHALL BE BROUGHT TO THE ATTENTION OF MORSE ENGINEERING PRIOR TO THE COMMENCEMENT OF WORK.
- THIS PLAN HAS BEEN PREPARED IN ACCORDANCE WITH TITLE 5 (310 CMR 15) AND THE LOCAL BOARD OF HEALTH REQUIREMENTS TO THE FULLEST EXTENT PRACTICABLE. NO GUARANTEE TO THE SYSTEMS PERFORMANCE IS EXPRESSED OR IMPLIED.
- SOIL TEST DATA SHOWN IS LIMITED TO THE CONDITIONS EXISTING AT THE SUBJECT TEST PIT LOCATION ONLY. IF DIFFERENT SOIL CONDITIONS ARE FOUND IN THE AREA OF THE PROPOSED SOIL ABSORPTION SYSTEM THEY SHALL BE BROUGHT TO THE ATTENTION OF MORSE ENGINEERING IMMEDIATELY.
- THE CONTRACTOR SHALL NOTIFY DIGSAFE PRIOR TO ANY EXCAVATION AT THE SUBJECT PROPERTY. IT IS SPECIFICALLY CAUTIONED THAT THE SUBSURFACE UTILITIES SHOWN ARE APPROXIMATE ONLY AND HAVE BEEN COMPILED FROM AVAILABLE RECORDS AND OBSERVABLE SITE FEATURES. UTILITIES OTHER THAN THOSE SHOWN MAY BE PRESENT AT THIS LOCATION.
- THIS PLAN HAS BEEN PREPARED SPECIFICALLY AS A SEPTIC SYSTEM DESIGN AND IS NOT TO BE USED TO ESTABLISH PROPERTY LINES OR BUILDING SETBACKS. PROPERTY LINES AND BUILDING LOCATIONS ARE GRAPHIC ONLY. PROPERTY LINES NOT HAVING BEEN VERIFIED, NO REPRESENTATION OR CERTIFICATION AS TO THE ACCURACY OF THOSE SHOWN IS IMPLIED.
- CONTRACTOR TO VERIFY AND ENSURE THAT ALL INTERIOR PLUMBING IS DIRECTED INTO PROPOSED SEPTIC SYSTEM. ANY VARIATIONS FROM THE DESIGN AS SHOWN SHALL BE BROUGHT TO THE ATTENTION OF THE DESIGN ENGINEER.

CONSTRUCTION NOTES

- CONTRACTOR SHALL COORDINATE INSPECTION TIMES WITH THE LOCAL BOARD OF HEALTH AND DESIGN ENGINEER 24-HOURS IN ADVANCE OF THE FOLLOWING INSPECTIONS:
 - AFTER EXCAVATION OF ALL UNSUITABLE MATERIAL FROM SOIL ABSORPTION AREA.
 - PRIOR TO COVERING THE CONSTRUCTED SYSTEM.
 - AFTER SYSTEM BACKFILL AND FINAL GRADING.
- ALL CONSTRUCTION MUST COMPLY WITH TITLE 5 OF THE STATE ENVIRONMENTAL CODE 310 CMR 15 & THE ANY LOCAL BOARD OF HEALTH SUPPLEMENTAL REGULATIONS.
- ALL TIGHT-JOINT PLUMBING SHALL BE CONSTRUCTED OF SCH. 40 PVC PIPE WITH CLEANED AND CEMENTED FITTINGS, UNLESS OTHERWISE NOTED.
- ALL PRECAST/PIPE CONSTRUCTION JOINTS AND FITTINGS SHALL BE MADE WATER TIGHT BY PARING WITH HYDRAULIC CEMENT.
- THE CONTRACTOR SHALL PROVIDE A SIEVE ANALYSIS OF THE TITLE 5 PERC SAND UTILIZED FOR FILL TO VERIFY THAT IT MEETS THE REQUIREMENTS OF 310 CMR 15.255(3). TITLE 5 SAND FILL SHALL COMPLY WITH THE FOLLOWING:

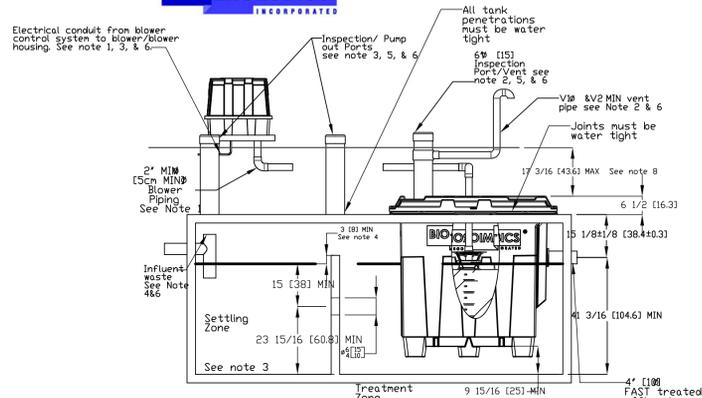
SIEVE SIZE	PARTICLE SIZE
#4	4.75 mm
#50	0.30 mm
#100	0.15 mm
#200	0.075 mm
- THE CONTRACTOR SHALL PREVENT ANY HEAVY CONSTRUCTION MACHINERY AND/OR TRUCKS FROM DRIVING OVER THE PROPOSED SOIL ABSORPTION SYSTEM LOCATION UNTIL FINISHED GRADE IS ESTABLISHED.
- THE CONTRACTOR SHALL INSTALL MAGNETIC TAPE OVER SYSTEM PIPING & COMPONENTS
- THE DESIGN ENGINEER SHALL CERTIFY AND PREPARE AN "AS-BUILT" PLAN FOR SUBMITTAL TO THE BOARD OF HEALTH UPON SEPTIC SYSTEM COMPLETION.
- ALL DISTURBED AREAS SHALL BE RESTORED WITH 4" LOAM & SEED POST CONSTRUCTION.
- ALL SEPTIC SYSTEM COMPONENTS TO BE STAKED OUT BY PROFESSIONAL LAND SURVEYOR PRIOR TO SYSTEM INSTALLATION.
- CONTRACTOR SHALL ABANDON EXISTING SEPTIC COMPONENTS IN ACCORDANCE WITH 310 CMR SEC. 15.354 OF TITLE 5 AND LOCAL REGULATIONS BY PUMPING DRY, CRUSHING AND ABANDONING.

SITE NOTES

- LOCUS LIES ENTIRELY WITHIN A DEP DESIGNATED ZONE II RESOURCE AREA.
- ALL KNOWN WETLANDS WITHIN 100 FEET OF THE PROPOSED SEWAGE SYSTEM ARE SHOWN.
- PROPERTY LINE DATA WAS OBTAINED FROM RECORDED DEED (BK. 57291 PG. 245) AND RECORDED PLANS ON FILE AT THE PLYMOUTH COUNTY REGISTRY OF DEEDS.
- ALL RECORDED WELLS OBSERVED WITHIN 500-FT. OF THE PROPOSED SYSTEM ARE SHOWN.
- LOCUS LIES IN FEMA ZONE "X" AS SHOWN ON FEMA COMMUNITY MAP PANEL 25023C 0084K DATED JULY 3, 2004. ZONE "X" IS NOT A SPECIAL FLOOD HAZARD AREA.
- ALL KNOWN ABUTTING SEPTIC SYSTEMS ARE SHOWN.

***INSTALLER TO BE MICROFAST CERTIFIED**

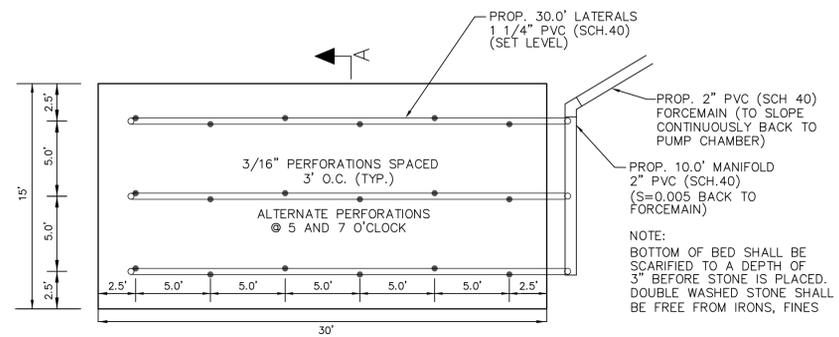
			PREPARED BY:
PROJECT: 59 CUSHING STREET (ASSESSOR'S PARCEL: 136-0-57) HINGHAM, MASSACHUSETTS			DESIGN: JDG
APPLICANT: PRITI LALCHANDANI & ANDREW DAVID WICKENHEISER 59 CUSHING STREET HINGHAM, MA 02043			CHECK: PGG
PLAN TITLE: SITE & SEPTIC DESIGN PLAN			JOB NO: 23-336
DATE: 1/8/2025 REV: 1/14/2025 1/28/2025			SHEET: 1 of 2



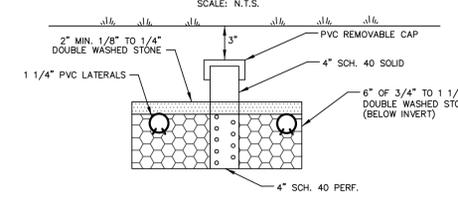
microFAST 0.5 DE-NITE TREATMENT TANK

- CONTRACTOR TO COORDINATE INSTALLATION WITH J&R SALES & SERVICES, INC.
- Blower piping to FAST may not exceed 100 FT [30.5m] total length and use 4 elbows maximum. For distances greater than 100 FT [30.5m] - consult factory. Blower must be located above flood/standing water levels on a concrete base.
- Vent to be located above finish grade or higher to avoid infiltration. Cap with vent grate with at least 7 sq in. of open surface area. Secure with stainless steel screws (see sheet 3 of 3 FAST Details).
- Run vent to desired location and cover opening with vent grate with at least 7 sq in. of open surface area. Secure with stainless steel screws. Vent piping must not allow excess moisture build up or back pressure.
- All apertures to FAST (e.g. tank pump outs, etc.) must conform to all country, state, province, and local plumbing and electrical codes. The blower control system is provided by Bio-Microbics, Inc.
- Either the influent pipe tee shall be fitted with a pipe cap or the baffle separating the two zones shall be extended to the top of the tank. If choosing to use the pipe cap, drill a 1/4" [0.6cm] vent hole in the cap and the baffle shall be at least 3/16" higher than the water level as shown on the drawing.

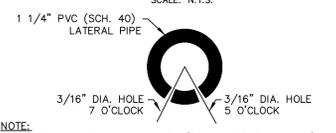
LEACH FIELD LAYOUT PLAN
NOT TO SCALE



INSPECTION PORT
SCALE: N.T.S.

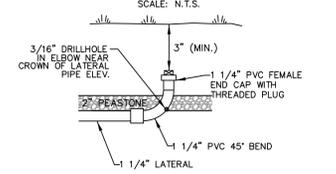


PERFORATION DETAIL
SCALE: N.T.S.

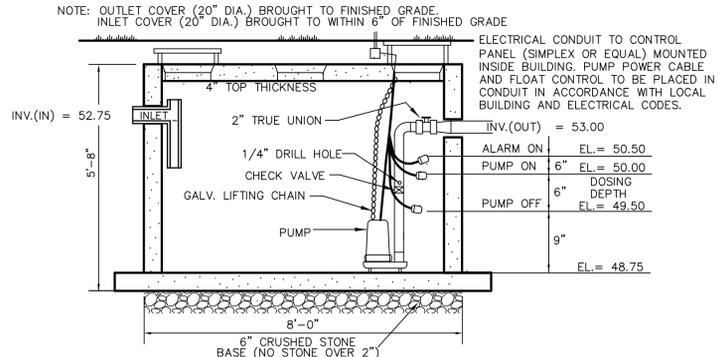


- NOTE:
1. ALL BURRS AND ROUGH EDGES (FROM ORIFICE DRILLING) SHALL BE REMOVED FROM THE LATERAL PRIOR TO ASSEMBLY.
2. PERFORATIONS SHALL ALTERNATE AT 5 & 7 O'CLOCK POSITIONS EVERY 5' OFF-CENTER LONG LATERAL PIPE.

PRESSURE LATERAL CLEANOUT
SCALE: N.T.S.

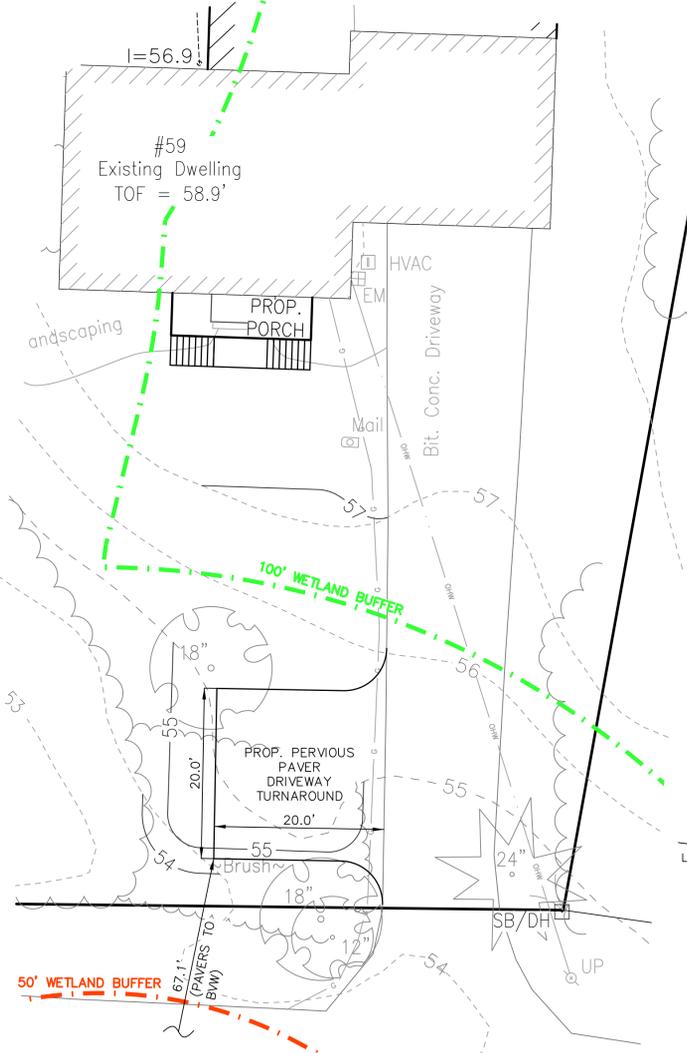
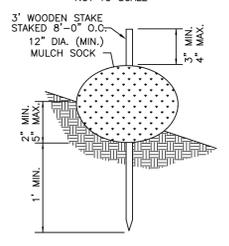


1,000 GAL. PUMP CHAMBER (MONOLITHIC, EXT. BASE) DETAIL



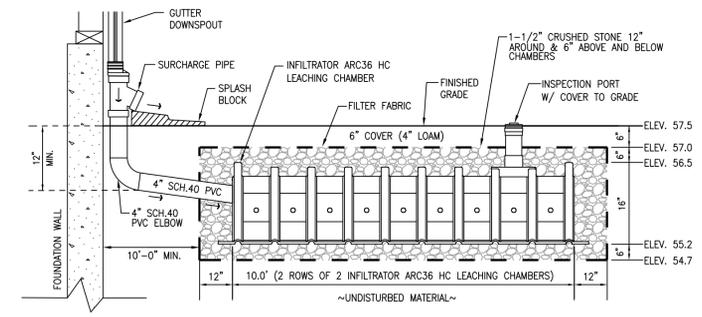
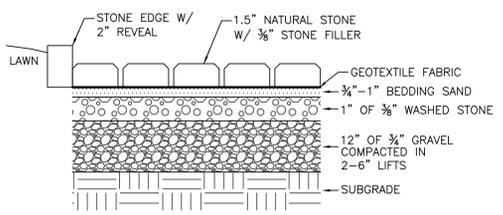
- PUMP DESIGN NOTES:**
- THE PUMP CONTROLS SHALL BE DESIGNED TO ALLOW THE FIELD TO BE DOSED 4 TIMES IN A 24-HOUR PERIOD UNDER NORMAL OPERATING CONDITIONS.
 - USE GOULDS SUBMERSIBLE EFFLUENT PUMP WS03B, 1/3 hp, 2" DISCHARGE, 2" SOLIDS CAPACITY T.D.H. = 8.4 FT. ± @ 12 GPM OR APPROVED EQUAL.
 - INSTALL HIGH WATER MERCURY FLOAT LEVEL CONTROL IN PUMP CHAMBER WITH VISIBLE FLASHING AND AUDIBLE ALARMS. CONTRACTOR TO COORDINATE LOCATIONS WITH HOMEOWNER. PUMP POWER SHALL BE LOCATED ON SEPARATE CIRCUIT FROM THE ALARM CIRCUIT. ALL ELECTRICAL WORK SHALL BE PERFORMED BY A LICENSED ELECTRICIAN WITH A VALID ELECTRICAL PERMIT AND TO BE INSPECTED BY THE TOWN WIRING INSPECTOR.
- 24-HOUR EMERGENCY STORAGE (440 GAL. MIN)
EL = 52.75 INVERT IN
EL = 50.50 ALARM ON
2.25' AVAILABLE STORAGE
x 250 GAL./VERT. FOOT = 562.5 GALLONS

STAKED MULCH SOCK DETAIL
NOT TO SCALE



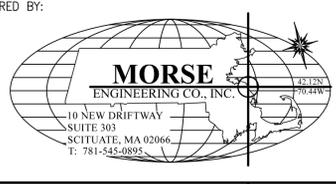
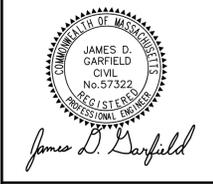
PERVIOUS PAVER DRIVEWAY FIGURE
SCALE: 1"=10'

PERVIOUS PAVER DRIVEWAY DETAIL
SCALE: N.T.S.



- NOTES**
- ALL ROOF LEADERS SHALL BE EQUIPPED WITH DOWNSPOUT STRAINERS AND OVERFLOW RELIEF TO SURFACE.
 - NO CONSTRUCTION ACTIVITY (TRAFFIC) SHALL BE ALLOWED OVER THE ROOF DRYWELL AREA.
 - ALL ROOF LEADERS FROM THE PROPOSED ADDITION ROOF AREA SHALL BE DIRECTED TO THE SUBSURFACE ROOF DRYWELL SYSTEM.
 - BACKFILL CHAMBERS WITH WASHED CRUSHED STONE FOR 12" AROUND AND 6" ABOVE AND BELOW.
 - CRUSHED STONE SHALL BE WRAPPED IN CULTEC GEOTEXTILE FABRIC NO.410 AND BOTTOM OF CHAMBERS SHALL BE LINED WITH CULTEC GEOTEXTILE FABRIC NO. 4800.
 - DESIGN CRITERIA TO PROVIDE ADEQUATE RECHARGE FOR INCREASED IMPERVIOUS AREA:
PROP. AREA OF ADDITION ROOF = 1,229 S.F.
0.60' OF RECHARGE REQUIRED (HSG A) = 1,229 S.F. X 0.60' (1/12") = 61.5 C.F.
PROVIDED: 2 ROWS OF 2 INFILTRATOR ARC36 HIGH CAPACITY LEACHING CHAMBERS EMBEDDED IN CRUSHED STONE
CHAMBER CAPACITY: 4 CHAMBERS X 10.5 C.F./CHAMBER = 42 C.F.
CRUSHED STONE CAPACITY: 12" X 7.66' W X 2.33' H = 214 C.F. - 42 C.F. = 172 C.F. X 40% VOIDS = 68.8 C.F.
TOTAL CAPACITY PROVIDED: 42 C.F. + 68.8 C.F. = 110.8 C.F.

SUBSURFACE ROOF RECHARGE SYSTEM DETAIL
SCALE: N.T.S.



PROJECT:	59 CUSHING STREET (ASSESSOR'S PARCEL: 136-0-57) HINGHAM, MASSACHUSETTS	DESIGN:	JDG
APPLICANT:	PRITI LALCHANDANI & ANDREW DAVID WICKENHEISER 59 CUSHING STREET HINGHAM, MA 02043	CHECK:	PGG
PLAN TITLE:	SITE & SEPTIC DESIGN PLAN	JOB NO:	23-336
		DATE:	1/8/2025
		REV:	1/14/2025 1/28/2025
		SHEET:	2 of 2