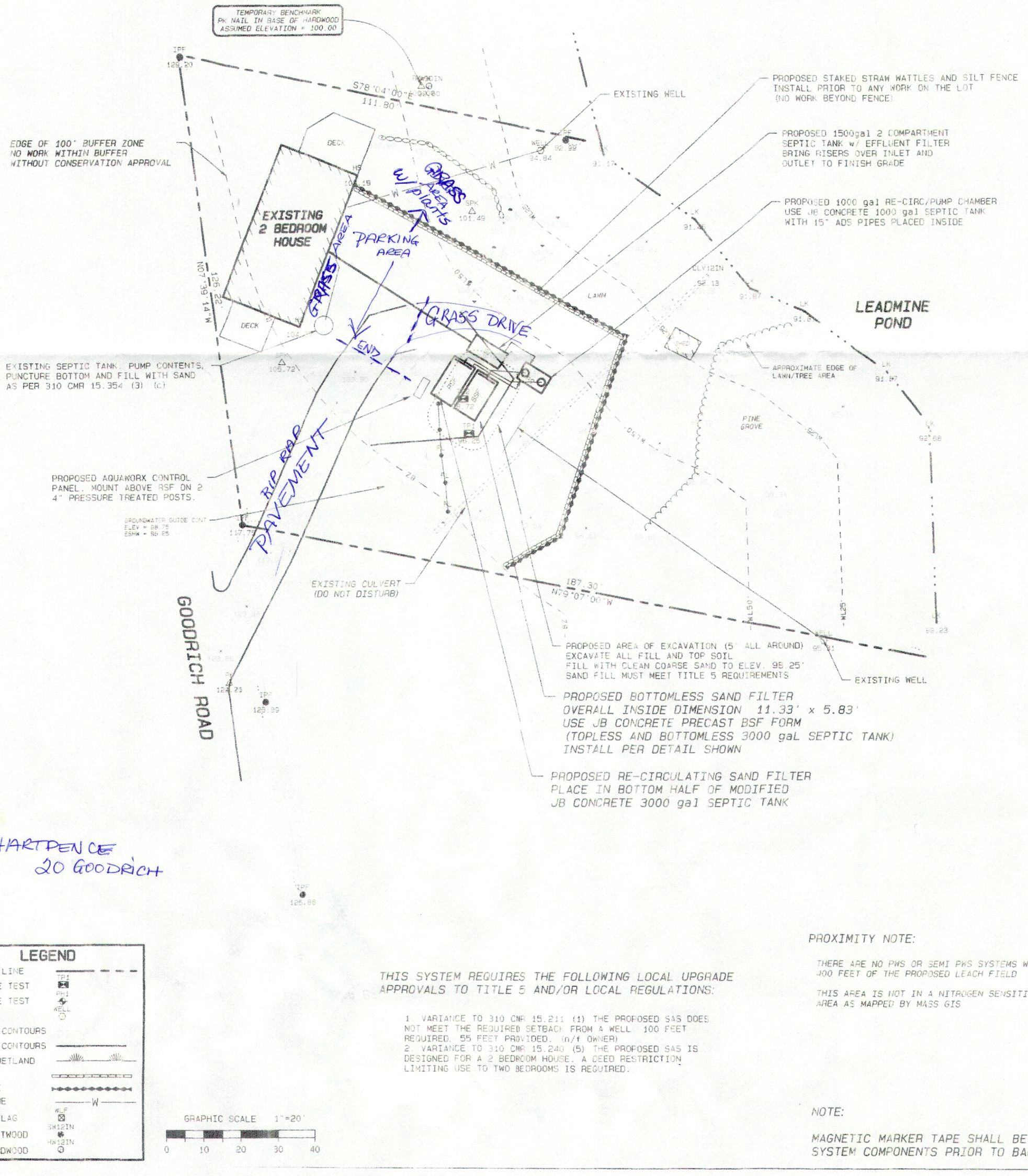
THIS SYSTEM UTILIZES A RECIRCULATING SAND FILTER (RSF) AND A BOTTOMLESS SAND FILTER (BSF).

THE BSF DESIGN IS BASED ON THE MA DEP BSF APPROVAL LETTER AND THE RHODE ISLAND DESIGN STANDARDS.

THE RSF DESIGN IS BASED ON THE MA DEP RSF GUIDANCE DOCUMENT.

THE USE OF THIS SYSTEM EXCEEDS THE ENVIRONMENTAL PROTECTION OFFERED BY A CONVENTIONAL TITLE 5 SYSTEM.

THIS SYSTEM REQUIRES AN OPERATION AND MAINTENANCE CONTRACT FOR BOTH THE RSF SYSTEM AND THE BOTTOMLESS SAND FILTER LEACH FIELD. BOTH SYSTEMS NEED TO BE MAINTAINED FOR THE LIFE OF THE SYSTEM TO INSURE PROPER OPERATION.



HARTPENCE
20 GOODRICH

LEGEND

- PROPERTY LINE
- DEEP HOLE TEST (TP1)
- PERC HOLE TEST (PH1)
- WELL
- EXISTING CONTOURS
- PROPOSED CONTOURS
- EDGE OF WETLAND
- HAYBALES
- SILTFENCE
- WATER LINE (W)
- WETLAND FLAG (WLF)
- TREE, SOFTWOOD (SW12IN)
- TREE, HARDWOOD (HW12IN)

GRAPHIC SCALE 1"=20'

0 10 20 30 40

THIS SYSTEM REQUIRES THE FOLLOWING LOCAL UPGRADE APPROVALS TO TITLE 5 AND/OR LOCAL REGULATIONS:

1. VARIANCE TO 310 CMR 15.211 (1) THE PROPOSED SAS DOES NOT MEET THE REQUIRED SETBACK FROM A WELL. 100 FEET REQUIRED. 55 FEET PROVIDED. (n/f OWNER)
2. VARIANCE TO 310 CMR 15.240 (5) THE PROPOSED SAS IS DESIGNED FOR A 2 BEDROOM HOUSE. A DEED RESTRICTION LIMITING USE TO TWO BEDROOMS IS REQUIRED.

PROXIMITY NOTE:

THERE ARE NO PWS OR SEMI PWS SYSTEMS WITHIN 400 FEET OF THE PROPOSED LEACH FIELD

THIS AREA IS NOT IN A NITROGEN SENSITIVE AREA AS MAPPED BY MASS GIS

NOTE:

MAGNETIC MARKER TAPE SHALL BE PLACED ON ALL SYSTEM COMPONENTS PRIOR TO BACK FILLING

DESIGN CALC

DESIGN CRITERI
2 BEDROOMS

LOADING RAT

DESIGN FLOW:
(2 BR) (110

SEPTIC TANK:
REQUIRED: 15

SOIL ABSORPTI
REQUIRED:
(220 gpd

SOIL TESTI

PERCOLATION TI
DATE OF TES
SOIL EVALUA
PERC RATE

SOIL LOGS:

TP1 ELEVATIO

DEPTH
0 - 30 in
30 - 37 in
37 - 50 in
50 - 96 in

TP2 ELEVATIO

DEPTH
0 - 30 in
30 - 52 in
52 - 102 in