

Existing Contours _	99						
Proposed Contours99							
Property Line –							
Water Service —	W						
Test Pit	TP1						
Existing Spot Grades	x97.1						

rvation Port. Screw type — within 3" of finish grade	15'min			
le 97.5 to 96.3 minimum	2% slope min — topsoil			
er Perforated 40 PVC pipe	Clean Backfill Top of System (94.50) 3			
Pipe Slope=0.005 ft/ft —				
	Med Sand- <u>5' minimum</u> 5' minimum 5' minimum 5' minimum 5' minimum 5' minimum 5' minimum 5' minimum			
39' Total Length				
Table Elevation 88.3 (se	e TP1)			
ICAL FIELD CROSS SEC NTS	CTION SEWAGE DISPOSAL SYSTEM NOTES			
	1. Contractor must construct sewage disposal system as designed and in accordance with the State Environmental Code — Title 5 and the rules and regulations of the Hanover Board of Health, as applicable to system upgrades.			
	2. This sewage disposal system is <u>NOT designed for a garbage grinder</u> .			
	3. Contractor to install a new 1500 gallon capacity tank. Tank to be manufactured and installed pursuant to all Title 5 Regulations.			
	4. Estimated design flow equals 330 gpd based on 3 bedrooms times two persons per bedroom times 55 gpd per person (system sized for 5 bedrooms — 819SF)			
	5. Required leaching area is equal to 445.9 (330/0.74) square feet. Use Hanover minimum Design Leaching Area of 800 square feet (bottom area only). Contractor is to install one Leaching Field measuring 21' wide by 39' long (819 square feet).			
	6. Distribution box shall be a 5-outlet concrete box. Box shall have risers to within 6-inches of finish grade			
	7. All piping shall be 4" Diameter Sch. 40 PVC pipe with watertight joints.			
	8. The grade above and adjacent to the leaching facility shall be sloped to prevent the accumulation of surface drainage (2% minimum slope).			
	9. Design Calculations: Using 1— 21' x 39' Leaching Field Percolation Rate = <2 mpi (Class Soil: LTAR=0.74 gpd/sf)			
	Leaching Area Required: 800 sfLeaching Area Provided: 819 sf(Town Minimum)21' x 39' leaching Field			
06.4)	Design Flow Required: 330 gpd Design Flow Provided: 606 gpd			
<u>22</u> " 0" <u>22</u> " 22"	10. Per manufacturer's recommendations the Zabel Filter should be inspected and cleaned as required. A licensed septage hauler should be consulted to determine pumping frequency necessary to maintain system.			
30"	SURVEY NOTES:			
42"(92.9)	DEED REF: Book 14113 / Page 0127			
70"	2. Town of Hanover Parcel ID: Mblu 70/44 3. No Property Line survey was conducted in preparation of this plan. Property line information obtained from plan entitled "Plan of Lots, South Hanover, Mass" owned by William E. Smith. Plan is dated July 1, 1949 and was prepared by Lawrence C. House, Abington, Mass. Plan is drawn at a scale of 1"=80'. Plan is recorded at the Plymouth Registry of Deeds. Plan can be found in Plan Book 7 Page 933			
112"	4. This plan is intended solely for the installation of the proposed on—site sewage disposal system. Use of this plan for any other purpose is expressly prohibited. Frank Nichols P.E. Consulting assumes no responsibility if this plan is used for any other purpose.			
	FRANCIS A. HICHOLS CIVIL NO. 41554 CONTERENT CONTER			

GRAPHIC SCALE		PHIC SCALE			
	0'	0' 20' FEET 40' 60'	APPLICANT: MICHELE BERNARD 128 CROSS STREET HANOVER, MASSACHUSETTS 02339		
	Date	Ch'ck	Revisions	PROPOSED PORCH 128 CROSS STREET HANOVER, MASSACHUSETTS 02339	
	Designed by Drawn by:	/: <u>F.A.</u> F.A.N	$\frac{N.}{N.}$ Scale: <u>1" = 20'</u>	FRANK A. NICHOLS, P.E.SHEETCONSULTING CIVIL ENGINEER1 of 1	
	Checked by Approved by	:F.A.1 y:F.A.1	N. Date: <u>March 1, 2024</u> N.	4 Prospect Court128 Cross StKingston, MA 02364617-201-6258	