(d) Easements are recorded and have adequate width for egress and ingress for maintenance of drainage systems serving two or more lots; and

(e) Maintenance of the drainage system is made a condition of any permit issued for the use or operation of a sanitary sewage system.

Drainage may be used in other types of soil when the requirements of Rule .1942, .1970 or .1948(d) in this Section are met.

(3) MODIFIED TRENCHES: Modified nitrification trenches or lines, including large diameter pipe (greater than four inches I.D.), and specially designed porous block systems may be permitted by the local health department as follows:

(a) GRAVELLESS TRENCHES: Gravelless nitrification trench systems may be substituted for conventional trench systems on any site found to be SUITABLE or PROVISIONALLY SUITABLE in accordance with Rules .1940 to .1948 of this Section to eliminate the need for gravel, minimize site disturbance, or for other site planning considerations. Gravelless nitrification trench systems shall not be used, however, where wastes contain high amounts of grease and oil, such as restaurants. Large diameter pipe systems and porous block systems may be permitted by the local health department as follows:

(i) Large diameter pipe systems shall consist of eight-inch or 10-inch (inside diameter), corrugated, polythylene tubing encased in a nylon, polyester, or nylon/polyester blend filter wrap installed in a nitrification trench, 12 or more inches wide and backfilled with soil classified as soil group I, II, or III. Nitrification area requirement shall be determined in accordance with Rules .1955(b) and .1955(c), or in Rule .1956(6)(b), Table III(a) of this Section, when applicable, with eight-inch tubing considered equivalent to a two-foot-wide conventional trench and 10-inch tubing considered equivalent to a two and one-half-foot-wide conventional trench. The long-term acceptance rate shall not exceed 0.8 gallons per day per square foot. Tubing and fittings shall comply with the requirements of ASTM F-667, "Standard Specification for Large Diameter Corrugated Polyethylene Pipe and Fittings, "which is hereby incorporated by reference including any subsequent amendments and editions. Copies of the standards may be inspected at the Division of Environmental Health Central Office, located at 2728 Capital Blvd., Raleigh, NC, and copies may be downloaded from the Internet at http://www.astm.org, or obtained from ASTM International, 100 Barr Harbor Drive, P.O. Box C700, West Conshohocken, PA 19438-2959, at a cost of thirty dollars ($30.00). The corrugated tubing shall have two rows of holes, each hole between three-eighths and one-half-inch in diameter, located 120 degrees apart along the bottom half of the pipe (each 60 degrees from the bottom center line) and staggered so that one hole is present in the valley of each corrugation. The tubing shall be marked with a visible top location indicator, 120 degrees away from each row of holes. Filter wrap shall be spun, bonded, or spunlaced nylon, polyester, or nylon/polyester blend nylon filter wrap meeting the minimum requirements in Table III(a):

Table III(a): Minimum Filter Wrap Requirements for Large Diameter Pipe Systems	
PROPERTY	VALUE
Unit Weight	1.0 ounce per square yard
Sheet Grab Tensile Strength	Machine Direction: 23 pounds
Trapezoid Tear Strength	Machine Direction: 6.2 pounds Cross Direction: 5.1 pounds
Mullen Burst Strength	40 pounds per square inch or 276 kilopascals
Frazier Air Permeability	500 cubic feet per minute per square foot at pressure differential of 0.5 inches of water

Corrugated tubing shall be covered with filter wrap at the factory and each joint shall be immediately encased in a black polyethylene sleeve which shall continue to encase the large diameter pipe and wrap until just prior to installation in the trench to prevent physical damage and ultraviolet radiation deterioration of the filter wrap.

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15' TSS100 30Fw

1 Food Stand
· 50 gal/100 ft² of floor space
25 gal/employee
2' Apartment Flow
240 gal minimum
3 Store
· 120 gal/1000 ft² of retail sales area
1+2+3 = total flow