

City of Rancho Cucamonga
Building and Safety Services Department
10500 Civic Center Dr., Rancho Cucamonga, CA 91730 909/477-2710

INFORMATION FOR PRIVATE SEWAGE DISPOSAL SYSTEMS

Rancho Cucamonga is located within the SANTA ANA REGION OF THE CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD. This board controls the installation of private sewage disposal systems in our area and regulates the minimum lot size requirements for these systems.

Board Resolution 93-40 states that a minimum lot size of one-half acre per dwelling unit is required for new developments.

A NEW DEVELOPMENT IS DEFINED AS ANY NEW TRACT OF HOUSES OR ANY NEW FREESTANDING STRUCTURES ADJACENT TO AN EXISTING RESIDENCE THAT WILL ADD A LOAD TO THE WASTE DISCHARGE OF THAT LOT

For more information contact the Board at: (951) 782-4130

For this reason, the following are requirements necessary for the design, plan check and inspection of private sewage disposal systems:



SUBJECT: REQUIREMENTS FOR PRIVATE SEWAGE SYSTEM (SEPTIC SYSTEM)

PURPOSE: To establish a consistent approach to determining the sewage disposal rates for private sewage disposal systems.

POLICY: Private sewage systems may be used for new construction when the public sewer system is not available (greater than 200-feet away) and when the proposed site is 1/2 acre or larger. Existing private systems may be replaced only when the public sewer is not available to the site.

REQUIREMENT OF A PERCOLATION REPORT

When a percolation report is required (or provided):

A percolation report is required for all proposed tracts and multi-family housing units or commercial sites.

- i. The contractor or developer shall submit a copy of the percolation test, along with a private sewage disposal system plan which will indicate the proposed locations of the private system to the RC Building and Safety Department.
- ii. A percolation report must be submitted for plan review to Building & Safety for any new or modifications to existing, private sewage systems when rates differ from those shown on the attached table developed by the City.

When a percolation report is NOT required:

- i. Additions to existing private sewage disposal systems. Credit will be given up to a maximum of 250-square feet of leaching surface area with the balance of the area calculated using 60-square feet / 100 gallons of septic tank capacity (see attached table)
- ii. Individual single family homes. Shall be sized based on location. (see attached map)

BACKGROUND: This policy establishes a standard for the determination of percolation rates when a private sewage disposal system is proposed. Such system may be installed in new construction when the lot size equals or exceeds 1/2 acre and the public sewer system is not available.

PROCEDURE: After the permits have been issued, the contractor is to schedule a preliminary field meeting with the Building Inspector.

APPROVED: _____

Trang Huynh, P.E.
Building and Safety Services Director

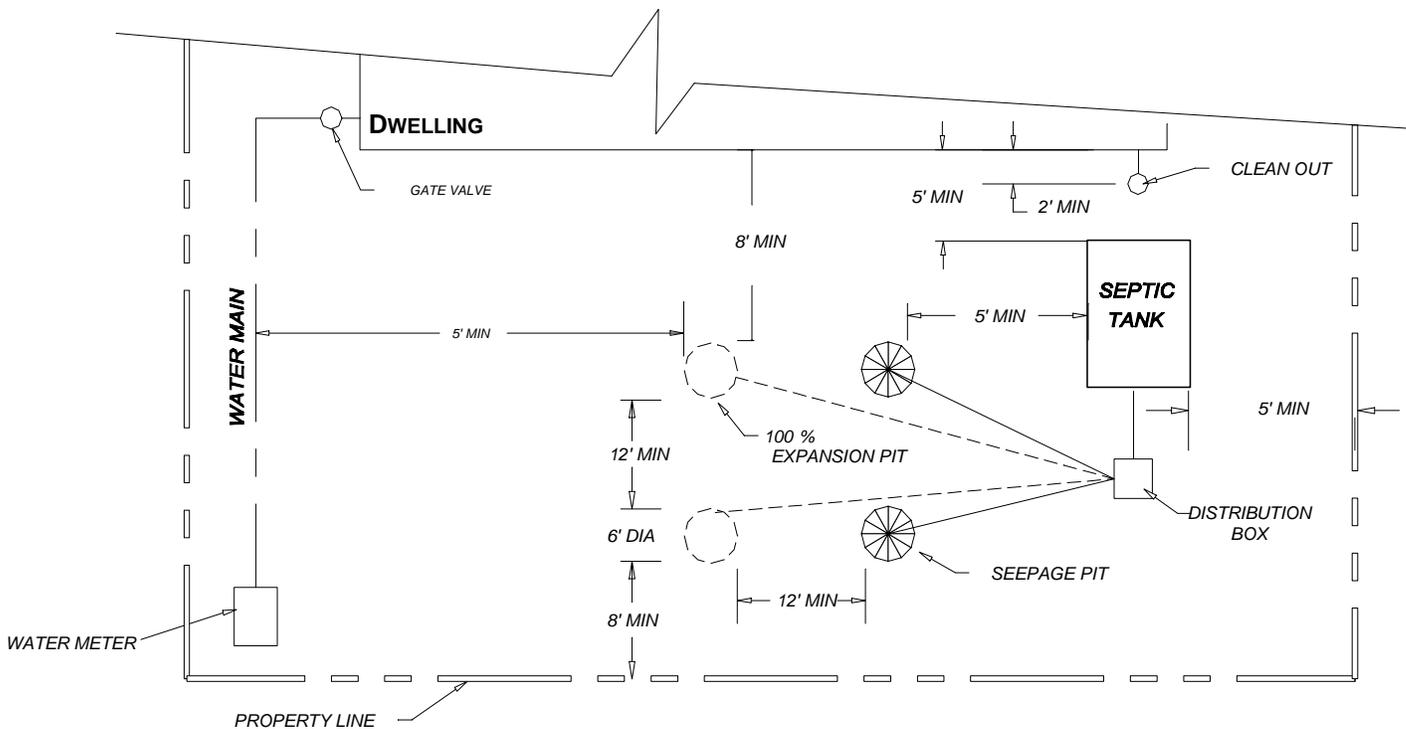
Design Criteria for Private Sewage Disposal Systems

Check Sewage Rate Map for Minimum Depth of Pits

Septic Tank Capacity (Gallons)	Disposal Field Leach Area Required	3 Ft A.P.* @ 12"	5 Ft A.P.* @ 24"	7 Ft A.P.* @ 36"	Size of Seepage Pit Required (Diameter x Depth) (See notes: 3, 4 & 5)		
		<u>Below Line</u> Width x Length	<u>Below Line</u> Width x Length	<u>Below Line</u> Width x Length			
Field Design at 60 Square Feet / 100 gallons (See notes: 1, 2, 3, & 4)					Pit design at 60 Square Feet / 100 gallons		
1,000	600	(2) 3' x 100'	(2) 5' x 55'	7' x 86'	5' x 39'	6' x 32'	7' x 28'
1,200	720	(1) 3' x 100' & (2) 3' x 70'	(2) 5' x 66'	(2) 7' x 52'	5' x 46'	6' x 38'	7' x 33'
1,500	900	(3) 3' x 100'	(2) 5' x 82'	(2) 7' x 65'	5' x 58'	6' x 48'	7' x 41'
Field Design at 90 Square Feet / 100 gallons					Pit design at 90 Square Feet / 100 gallons		
1,000	900	(3) 3' x 100'	(2) 5' x 90'	(2) 7' x 64'	5' x 58'	6' x 48'	7' x 41'
1,200	1,080	(4) 3' x 90'	(3) 5' x 72'	(2) 7' x 78'	5' x 69'	6' x 58'	7' x 50'
1,500	1,350	(5) 3' x 90'	(3) 5' x 90'	(2) 7' x 97'	5' x 86'	6' x 72'	7' x 62'

Notes: *Absorption Perimeter

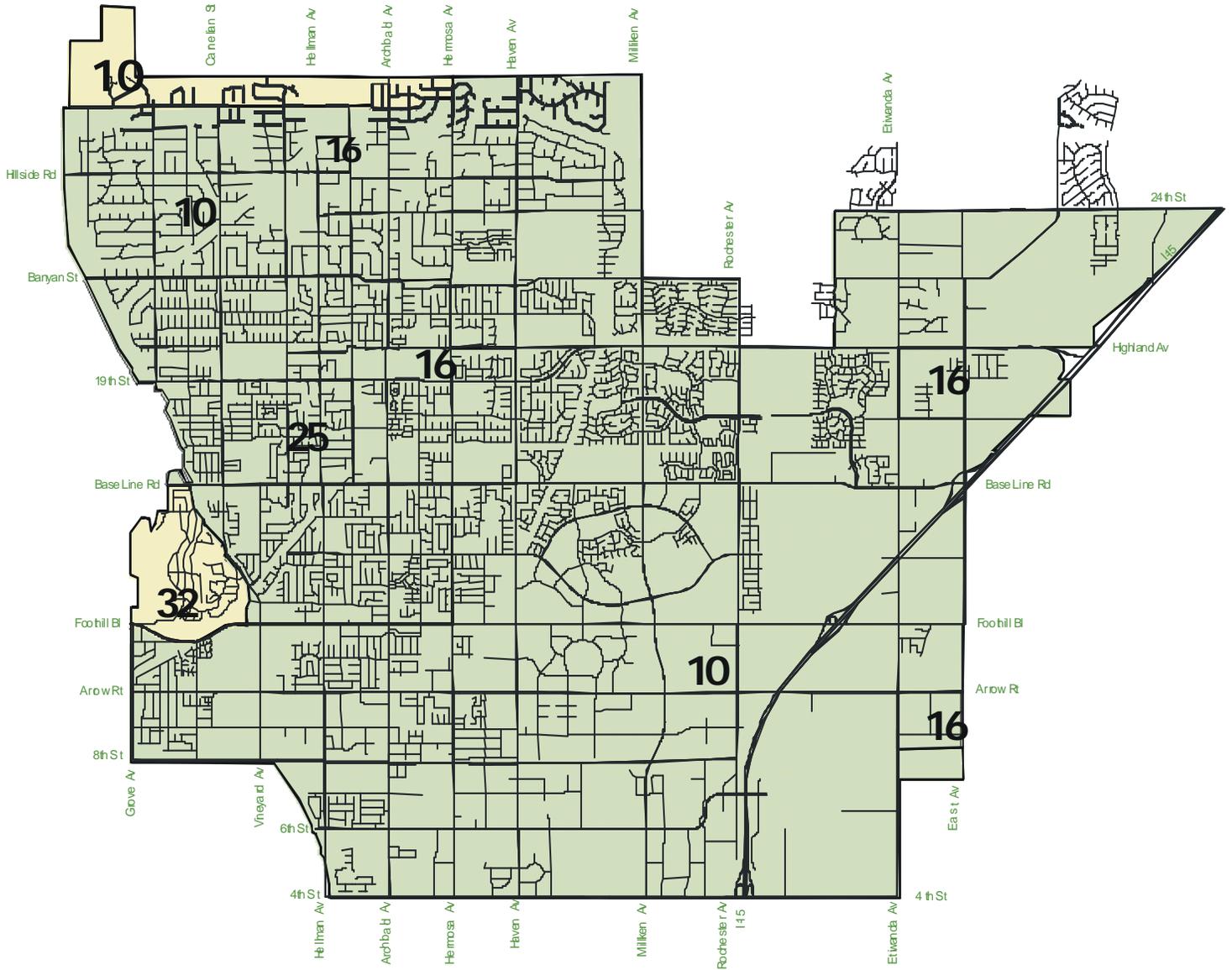
- 1) Other variations may be allowed to width and depth so as to achieve the required leach area.
- 2) Trenches shall not have less than 150 sq. ft of trench bottom area or be longer than 100 feet.
- 3) All deviations from this handout will require a percolation test with a designed septic system by a licensed Civil Engineer.
- 4) Depth of the seepage pit shall be measured from the bottom of the pit to the invert of the distribution pipe.
- 5) Multiple seepage pits may be used. If this is the case, the required depth from the table above can be divided equally among the numbers of seepage pits. In no cases the depth of seepage pits can be less than the "minimum depth" map attached



TYPICAL SEEPAGE PIT LAYOUT

NOT-TO-SCALE

CITY OF RANCHO CUCAMONGA



90 sq. ft./100 gal
 60 sq. ft./100 gal

Table K-1
(From 2001 California Plumbing Code)
Location of Sewage Disposal Systems

Minimum Horizontal Distance In Clear From:	Building Sewer	Septic Tank	Disposal Field	Seepage Pit
Buildings or structures ¹	2'	5'	8'	8'
Property line	Clear ²	5'	5'	8'
Water supply wells	50' ³	50'	100'	150'
Streams	50'	50'	50'	100'
Trees	-	10'	-	10'
Seepage Pits / Cesspools	-	5'	5'	12'
Disposal Field	-	5'	4' ⁴	5'
On site domestic water service line	1' ⁵	5'	5'	5'
Distribution box	-	-	5'	5'
Pressure public water main	10' ⁶	10'	10'	10'

Notes:

When Disposal fields and/or seepage pits are installed in sloping ground, the minimum horizontal distance between any part of the leaching system and ground surface shall be 15'.

1. Including porches and steps, whether covered or uncovered, breezeways, roofed porte-cocheres, roofed patios, carports, covered walks, covered driveways and similar structures or appurtenances.
2. All trenches deeper than and parallel to the footing of any structure shall be 45° therefrom.
3. All drainage piping shall clear domestic water supply wells by at least 50'. This distance may be reduced to not less than 25' when the drainage piping is constructed of materials approved for use within a building.
4. Plus 2' for each additional 1' of depth in excess of 1' below the bottom of the drain line.
5. Building sewers constructed of materials not approved for use within a building shall not be run or laid within the same trench as water pipes unless the water pipe is 12" above the top of the sewer pipe and is placed on a solid shelf excavated at one side of the common trench with a minimum of 12" horizontally from the sewer pipe.
6. For parallel construction only –For perpendicular crossings, Health Dept. approval is required.