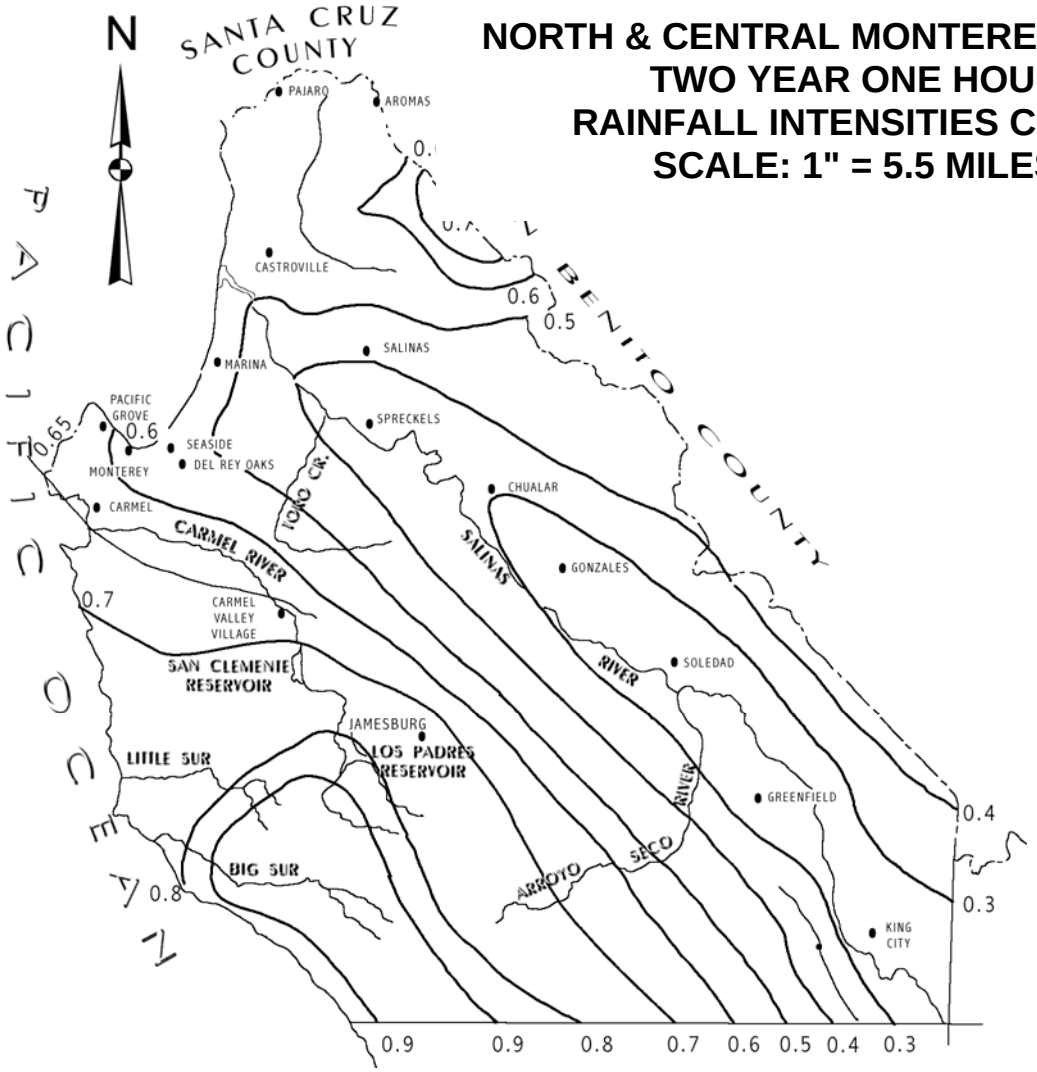
NORTH & CENTRAL MONTEREY COUNTY
TWO YEAR ONE HOUR
RAINFALL INTENSITIES CHART
SCALE: 1" = 5.5 MILES



NOTE:

1. Intensities for particular location in the Southern part of the County available from County Surveyors Office.
2. Conversion Factors:
   Intensity of a 10-year design storm equals 2-year design storm times 1.48
   Intensity of a 25-year design storm equals 2-year design storm times 1.73
   Intensity of a 50-year design storm equals 2-year design storm times 1.92
   Intensity of a 100-year design storm equals 2-year design storm times 2.22
3. The maximum intensity (I_t) for storms of various in duration is determined by the formula: $I_t = 7.75i / \sqrt{t}$ in which variables are as follows:
   I_t = maximum intensity of storm of t minutes duration
   i = one hour rainfall intensity from above chart and note 2
   t = time in minutes shortest time it takes storm runoff to flow from farthest point in the drainage area to the point in question
4. **Example:** Find maximum intensity of 20 minute storm in Chualar, expected to occur on the average of once in 25 years.
   Solution: From chart 0.3/hr intensity for 2-year design storm.
   From note 2, 0.3 times 1.73 equals 0.52"/hr the maximum intensity of a 25-year one hour design storm.
   From note 3, $I_t = 7.75i/\sqrt{t} = (7.75)(0.52)/\sqrt{20}$ = 0.90"/hr. Therefore, the maximum 20 minute intensity of a storm that on the average would occur once every 25 years would be 0.90"/hr.

MONTEREY COUNTY	DEPT. OF PUBLIC WORKS	
STANDARD DETAILS RAINFALL INTENSITIES CHART		
APPROVED [signature]	DATE 10-24-77	
REVISED	DATE	PLATE NO. 25