

**CITY OF ROCHESTER HILLS
HYDRANT FLOW TEST**

Date: 9/14/21 Time: 8:00AM

Test Performed By: W RYBAK, M GREENWOOD

Location: 3175 Rochester Rd S.

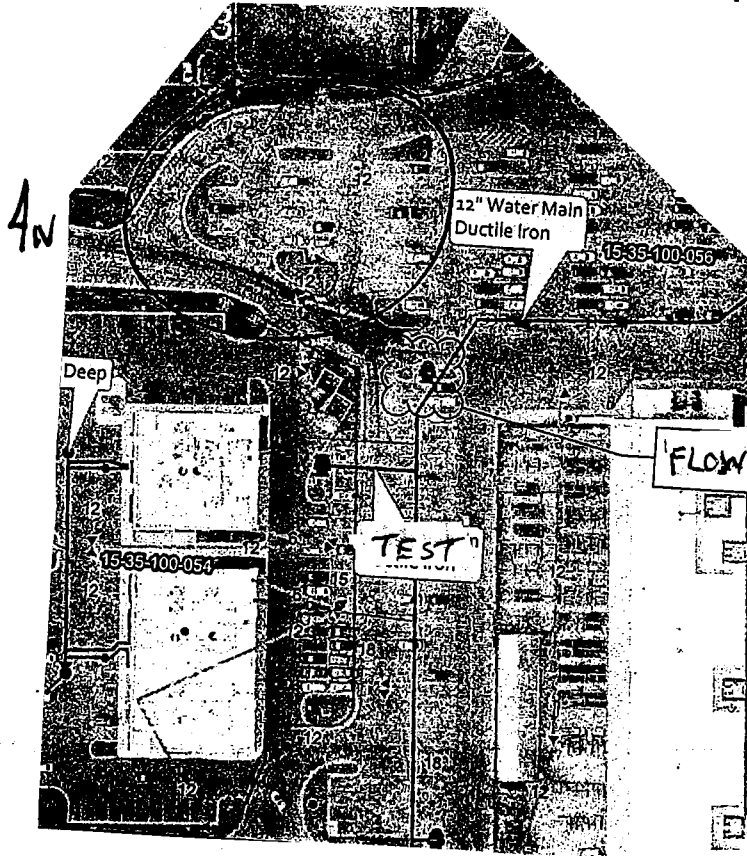
Calculations Performed By: WAYNE RYBAK

Number of Hydrants Flowing: 1
 Number of Outlets Open: 1
 Size of Outlet, D (Inches): 3 3/4
 Friction Loss Coefficient, C_d : 9
 Static Pressure, P_s (psi): 68
 Residual Pressure, P_r (psi): 58
 P10 Pressure, P_p (psi): 36
 Residual Flow, Q_r (GPM): 2266 / 1881*
 Fire Flow at 20 psi, Q_f (GPM): 5286 / 4383*
 Supply Main Size (p10 hydrant): 12"
 Supply Main Size (static hydrant): 6"

$$Q_r = 29.83 C_d D^2 (P_p)^{0.54} \# \text{Outlets}$$

$$Q_f = Q_r [(P_s - 20) / (P_s - P_r)]^{0.54}$$

* MULTIPLIED BY .83 PER NFPA 291
 Drawing of Flow Test Site (include location of flow & test hydrant):



Post-it® Fax Note	7671	Date	9/16/21	# of pages	1
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