Fire Hydrant Flow Test Form

Test form to be filled out and returned in PDF format.

Click to **Reset Fields** in II. Flow Test Data and III. Calculations.

Hover cursor over fields to display ToolTips.

I. Project Information (To be completed by Applicant)

Name:	V.K. Knowlton Construction & Utilities, Inc.	Phone: (210) 651-6860
Company Address:	18225 FM 2252, San Antonio, Texas 78266	
Project Name:	**VERAMENDI PRECINCT 18, UNIT 1**	
NBU Work Order Numbers:	W-226995 / WW-226996	

TEST #4

II. Flow Test Data (To be completed by Applicant)

Test Hydrant	NBU FH ID #: Existing FH	Plan Sheet/Hydrant #: Exhibit - Existing FH			Private: No
	Location Description: Alley 2 off Primaria and Hill Country Drive				
	Size and Material of Main: 16" main C-900 PVC (200)				
	Manufacturer: CLOW		OEM Year: 2025		
	Static PSI: 50	Residual PSI: 42	% Pressure Drop: **16.00**		Date and Time: 5/15/2026 9:18 am
Flow Hydrant	NBU FH ID #: 364 F/H	Plan Sheet/Hydrant #: Exhibit - 364 F/H			Diameter: 2.5
	Size and Material of Main: 8" main C-900 PVC (200)				
	Pitot PSI: 25	Observed Flow (GPM): 839	Mins Flowed: 1		Date and Time: 5/15/2026 9:18 am
	Total Water Loss: 839				
Flow Hydrant	NBU FH ID #: 364 F/H	Plan Sheet/Hydrant #: Exhibit - 364 F/H			Diameter: 2.5
	Size and Material of Main: 8" main C-900 PVC (200)				
	Pitot PSI: 25	Observed Flow (GPM): 839	Mins Flowed: 1		Date and Time: 5/15/2026 9:18 am
	Total Water Loss: 839				

III. Calculations (Auto-populated)

Residual Flow $Qr = 29.83 \times cd \times D^2 \sqrt{Pp} \times Hf$	**Fire Flow at 20 PSI** $Qf = Qr \times ((Ps-20 / (Ps - Pr))^{0.54}$
Cd = 0.9	**Qr =** 1678
D = 2.5	**Ps =** 50
Pp = 25	**Pr =** 42
Hf = 2	**Qf =** **3426**
Qr = **1678**	**NFPA 291 Standard Color Code :** **1500 GPM & Above = Light Blue**

IV. Tester/Company Information (To be completed by Applicant)

Flow Test Conducted by:	Protection Development, Incorporated	Phone: (210) 828-7533
Business License #:	Texas Registered Engineering Firm (F-2816)	
Company Address:	8620 N. New Braunfels Avenue, Suite 100, San Antonio, Texas 78217	
Signature:	Geoff Owens & Alex Akeroyd	Date: 05/15/2026

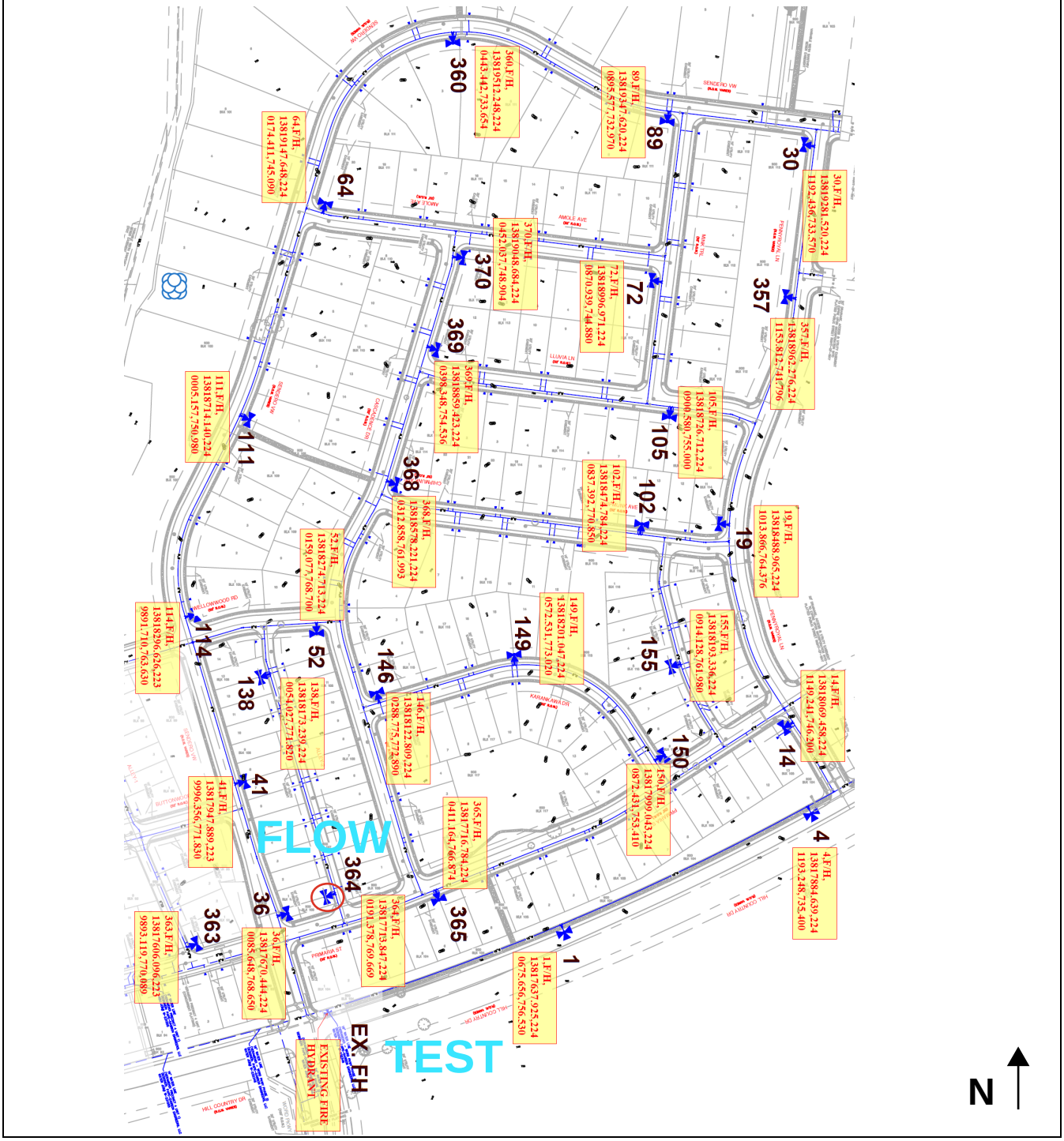
V. NBFD Fire Hydrant Flow Requirements (To be completed by Fire Department)

Print Name:	Title:	Accepted:
Signature:		Date and Time:

Fire Hydrant Flow Test Form

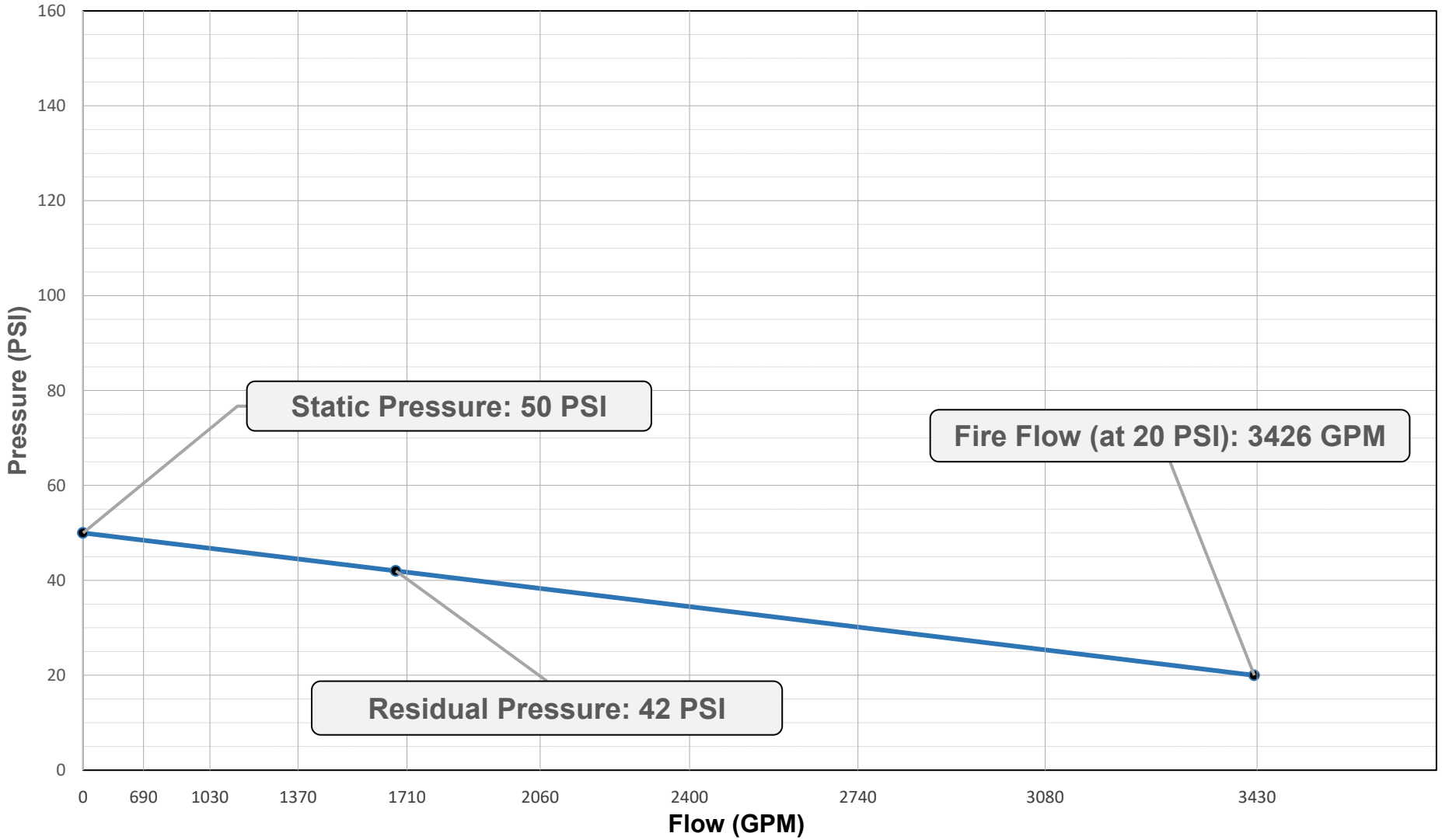
VI. Sketch (Attach any additional calculations and graphs made by testing company)

Label Hydrant Numbers and Street Names



Protection Development Incorporated
Fire Protection Engineering

Project Name:	Veramendi Pct 18, Unit 1 - Test #4
Project Number:	26-0064
Test Date:	May 15, 2026
City:	New Braunfels



Static Pressure:	50 PSI	**Residual Pressure:**	42 PSI	**Flow Test @ Residual Pressure:**	1,678 GPM	**Fire Flow (at 20 PSI):**	3,426 GPM