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 #5

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: Sendero View and Hill Country Drive			
	Size and Material of Main: 16" main C-900 PVC (200)			
	Manufacturer: CLOW	OEM Year: 2025		
	Static PSI: 52	Residual PSI: 42	% Pressure Drop: **19.23**	Date and Time: 5/15/2026 9:26 am
Flow Hydrant	NBU FH ID #: 36 F/H	Plan Sheet/Hydrant #: Exhibit - 36 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 9:26 am
	Total Water Loss: 839			
Flow Hydrant	NBU FH ID #: 36 F/H	Plan Sheet/Hydrant #: Exhibit - 36 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 9:26 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 =** 52
Pp = 25	**Pr =** 42
Hf = 2	**Qf = 3145**
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:

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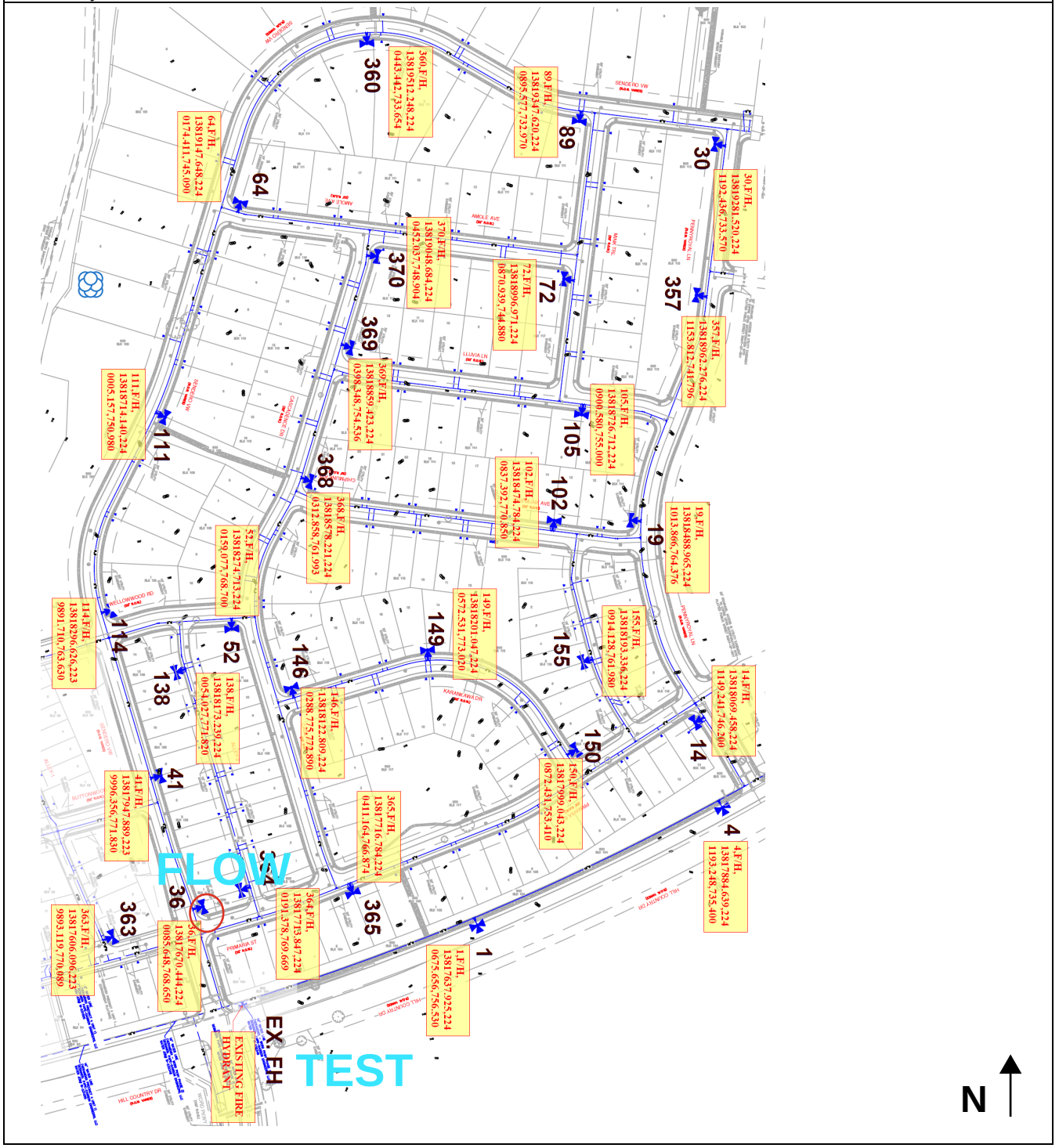
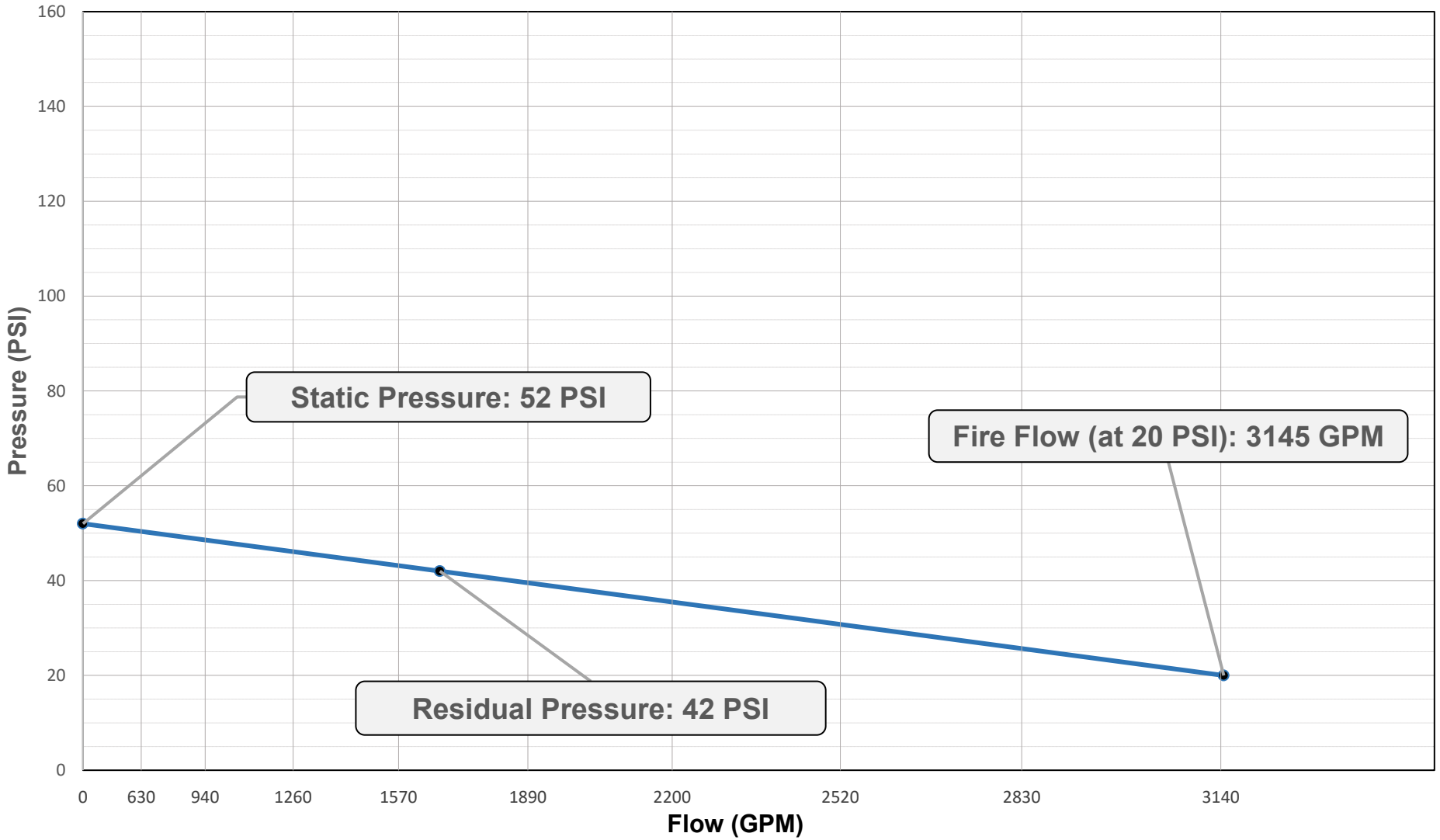
VI. Sketch (Attach any additional calculations and graphs made by testing company)

Label Hydrant Numbers and Street Names



Protection Development Incorporated
Fire Protection Engineering

Project Name:	Veramendi Pct 18, Unit 1 - Test #5
Project Number:	26-0064
Test Date:	May 15, 2026
City:	New Braunfels



Static Pressure:	52 PSI	**Residual Pressure:**	42 PSI	**Flow Test @ Residual Pressure:**	1,678 GPM	**Fire Flow (at 20 PSI):**	3,145 GPM