Fire Hydrant Flow Test Form

Required fields highlighted in blue.

Auto-populated Fields:

% Pressure Drop, Total Water Loss, Residual Flow, Fire Flow at 20PSI, and NFPA 291 Standard Color Code.

I. Project Information

Name: V.K. Knowlton Construction & Utilities, Inc.	**Phone:** (210) 651-6860
Company Address: 18225 FM 2252, San Antonio, Texas 78266	
Project Name: STEELWOOD TRAIL UNIT 4	
NBU Work Order Numbers: W-209398	

TEST # **10**

II. Flow Test Data

Click **Reset Fields** to recalculate auto-populated fields.

Test Hydrant	**NBU FH ID #:** 15180	**Plan Sheet/Hydrant #:** NBU Asset Map / 15180		**Private:** No
	Location Description: Wentz Hill Drive west of Tower Hill View			
	Size and Material of Main: 8" C900 (DR-18)			
	Manufacturer: CLOW		**OEM Year:** 2024	
	Static PSI: 66	**Residual PSI:** 48	**% Pressure Drop:** 27.27	**Date and Time:** 9/16/2025 9:48 am
Flow Hydrant 1	**NBU FH ID #:** ID #45	**Plan Sheet/Hydrant #:** C6.01 / ID #45		**Diameter:** 2.5
	Size and Material of Main: 12" C900 (DR-18)			
	Pitot PSI: 22	**Observed Flow:** 787	**Minutes Flowed:** 2	
	Total Water Loss: 1574			
Flow Hydrant 2 (OPTIONAL)	**NBU FH ID #:** ID #45	**Plan Sheet/Hydrant #:** C6.01 / ID #45		**Diameter:** 2.5
	Size and Material of Main: ***flowing both outlets of hydrant***			
	Pitot PSI: 22	**Observed Flow:** 787	**Minutes Flowed:** 2	
	Total Water Loss: 1574			

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 =** 1574
D = 2.5	**Ps =** 66
Pp = 22	**Pr =** 48
Hf = 2	**Qf = 2613**
Qr = 1574	**NFPA 291 Standard Color Code:** 1500 GPM & Above = Light Blue

IV. Tester/Company Information

Flow Test Conducted by: Protection Development, Incorporated	**Phone:** (210) 828-7533
Business License #: Texas Registered Engineering Firm (F-2816)	
Company Address: 8620 North New Braunfels Avenue, Suite 100, San Antonio, Texas 78217	
Print Name: Alex Akeroyd and Geoff Owens	**Date:** 09/16/2025

2025-0223

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

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

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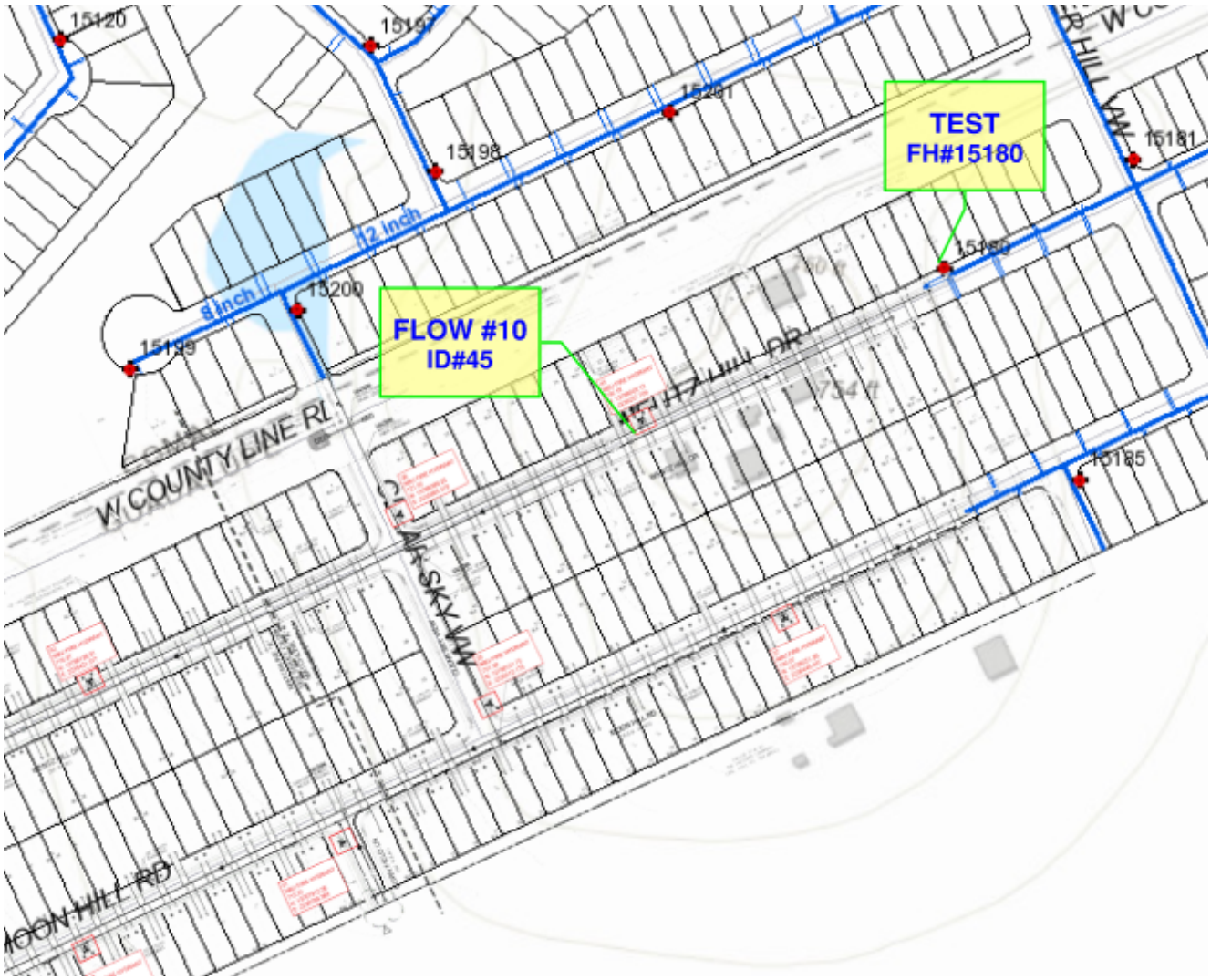
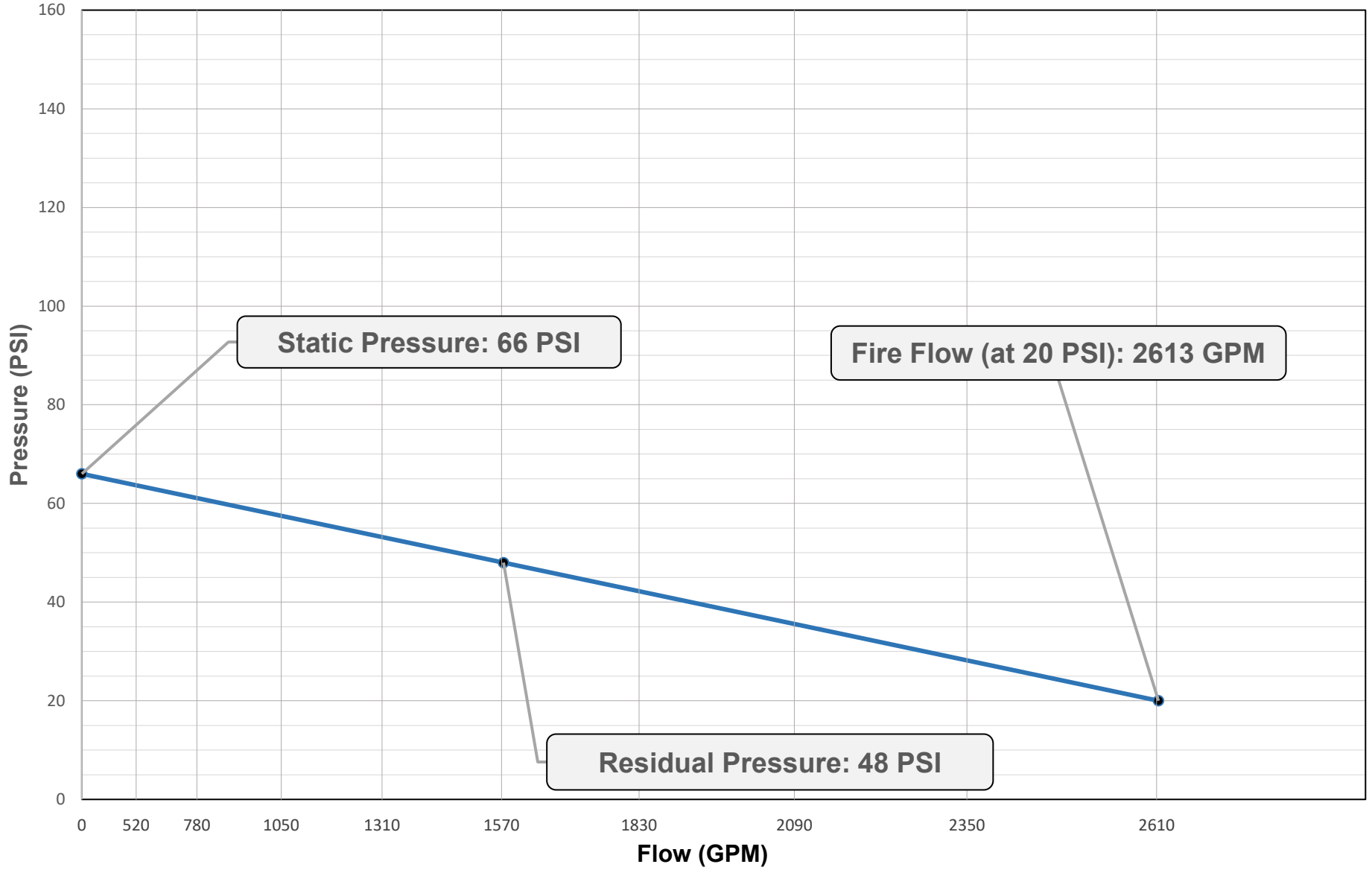
VI. Sketch (Attach any additional calculations and graphs made by testing company)

Label Hydrant Numbers and Street Names



Protection Development Incorporated
Fire Protection Engineering

Project Name:	Steelwood Trail Unit 4 - Test #10
Project Number:	25-0223
Test Date:	September 16, 2025
City:	New Braunfels



Static Pressure:	66 PSI	**Residual Pressure:**	48 PSI	**Flow Test @ Residual Pressure:**	1,574 GPM	**Fire Flow (at 20 PSI):**	2,613 GPM