

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 2282 San Antonio, TX 78266	
Project Name: THE LANDING - UNIT 1	
NBU Work Order Numbers:	

Point #	Grid Easting	Grid Northing	Elevation	Code	FH#
18	13811870.4000	2272565.6800	661.816	F/H	13

II. Flow Test Data		Click Reset Fields to recalculate auto-populated fields.	
Test Hydrant	NBU FH ID #:	Plan Sheet/Hydrant #: Sheet C6.1	Private: No
	Location Description: Landing Way		
	Size and Material of Main: 8 inch main C-900 (200)		
	Manufacturer: CLOW OEM Year: 2023		
	Static PSI: 94	Residual PSI: 54	% Pressure Drop: 42.55 Date and Time: 2/13/2025 10:45 am
Flow Hydrant 1	NBU FH ID #:	Plan Sheet/Hydrant #: Sheet C6.1	Diameter: 2.5
	Size and Material of Main: 8 inch main C-900 (200)		
	Pitot PSI: 32	Observed Flow: 949	Minutes Flowed: 2
	Total Water Loss: 1898		
Flow Hydrant 2 (OPTIONAL)	NBU FH ID #:	Plan Sheet/Hydrant #: Sheet C6.1	Diameter: 2.5
	Size and Material of Main: ~~FLOWING BOTH OUTLETS OF HYDRANT 1~~		
	Pitot PSI: 32	Observed Flow: 949	Minutes Flowed: 2
	Total Water Loss: 1898		

III. Calculations (Auto-populated)	
Residual Flow $Q_r = 29.83 \times c_d \times D^2 \sqrt{P_p \times H_f}$	Fire Flow at 20 PSI $Q_f = Q_r \times \left(\frac{P_s - 20}{P_s - P_r} \right)^{0.54}$
Cd = 0.9	Qr = 1898
D = 2.5	Ps = 94
Pp = 32	Pr = 54
Hf = 2	Qf = 2646
Qr = 1898	NFPA 291 Standard Color Code : 1500 GPM & Above = Light Blue

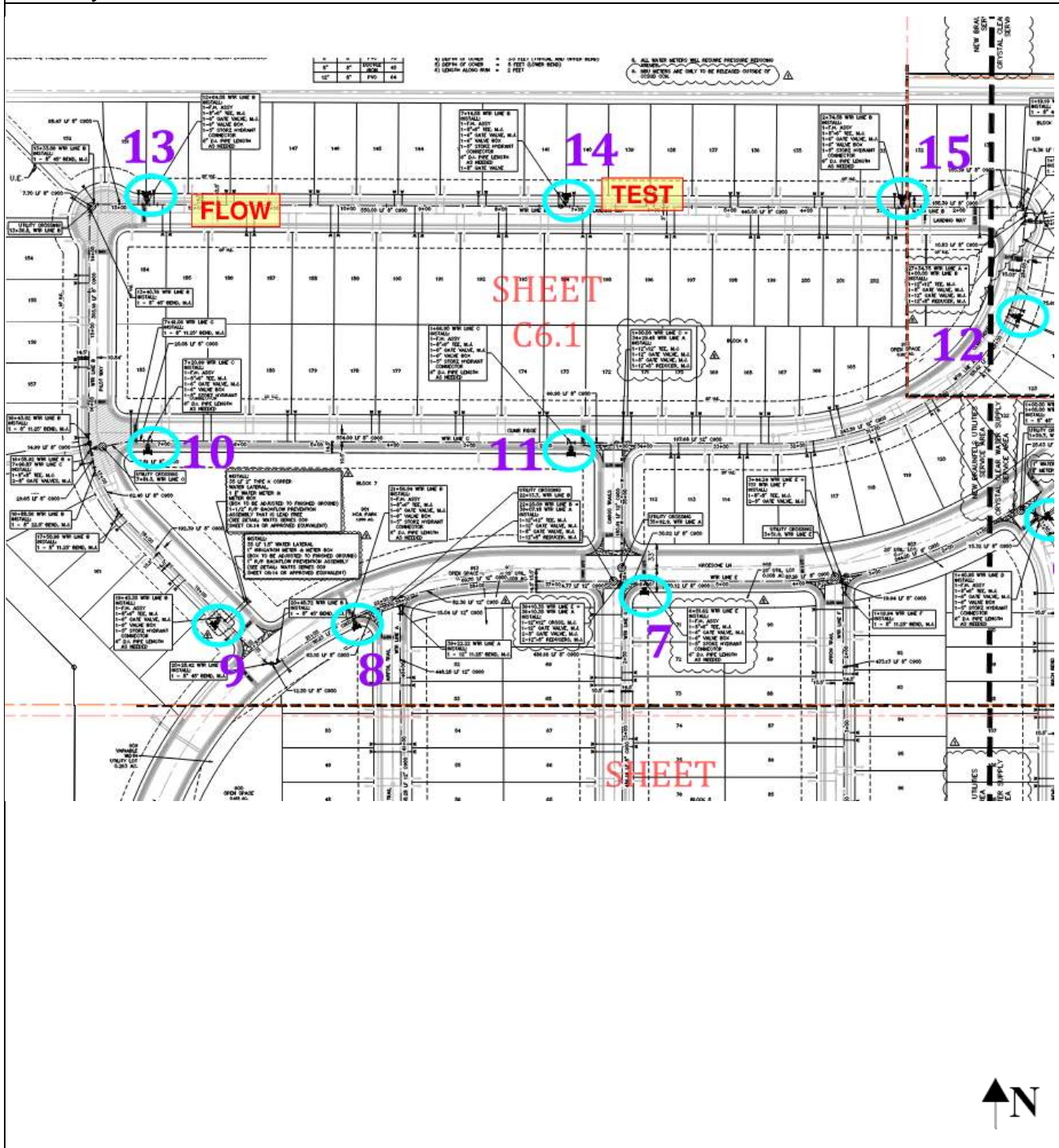
IV. Tester/Company Information	
Flow Test Conducted by: PROTECTION DEVELOPMENT, INCORPORATED	Phone: (210) 828-7533
Business License #: Texas Registered Engineering Firm (F-2816)	
Company Address: 8620 North New Braunfels Avenue, Suite 100, San Antonio, Texas 78217	
Print Name: Alex Akeroyd and Nicholas Balanciere	Date: 02/13/2025

V. NBFD Fire Hydrant Flow Requirements (To be completed by Fire Department)		
Print Name:	Title:	Accepted: <input type="checkbox"/>
Signature:	Date and Time:	

Fire Hydrant Flow Test Form

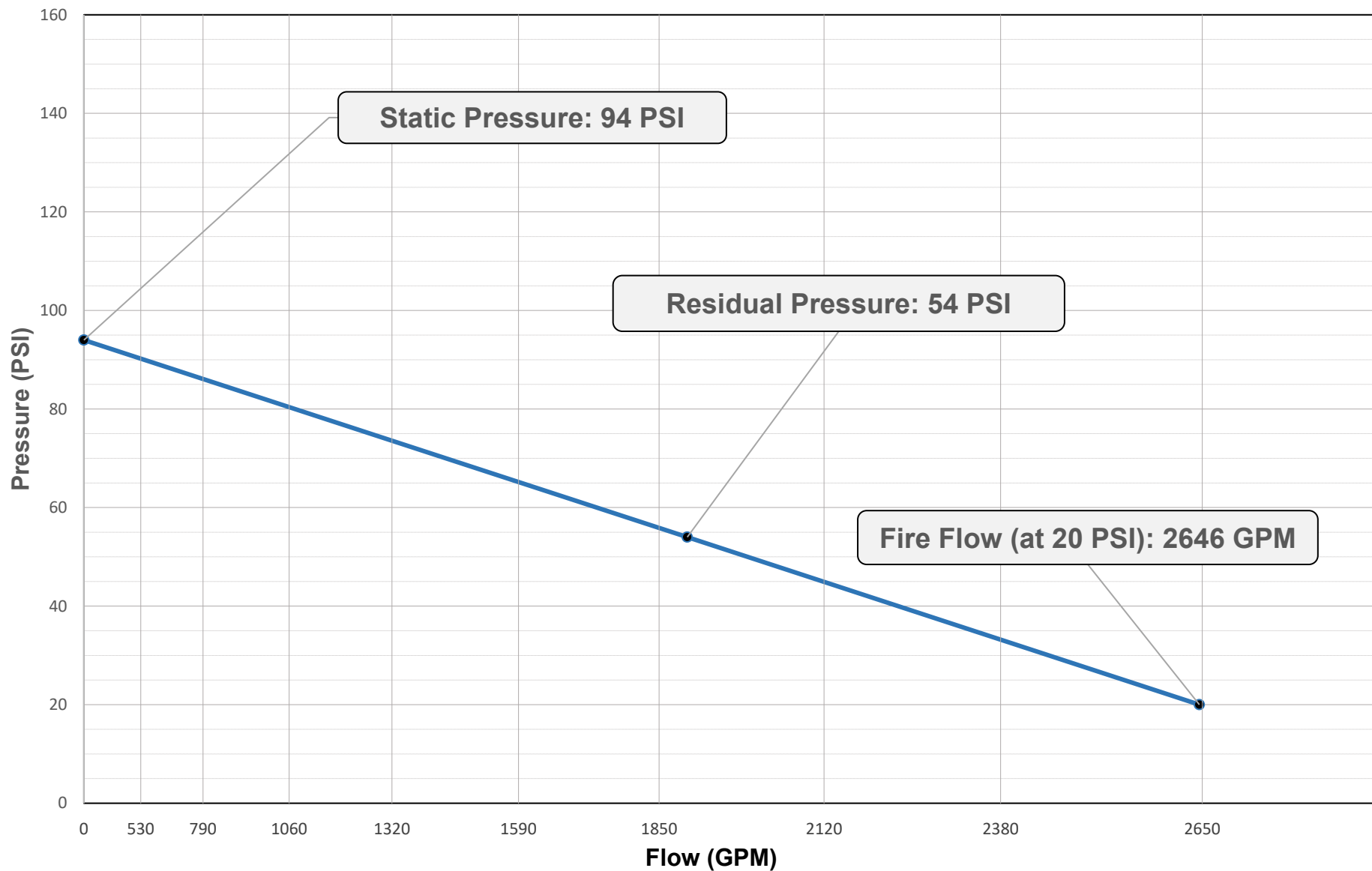
VI. Sketch (Attach any additional calculations and graphs made by testing company)

Label Hydrant Numbers and Street Names





Project Name:	The Landing Unit 1 - Test #13
Project Number:	25-0033
Test Date:	February 13, 2025
City:	New Braunfels



Static Pressure: 94 PSI	Residual Pressure: 54 PSI	Flow Test @ Residual Pressure: 1,898 GPM	Fire Flow (at 20 PSI): 2,646 GPM
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