

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#	Test #:
89	13813566.9900	2272850.0380	660.052	F/H	17	17

II. Flow Test Data							
Click Reset Fields to recalculate auto-populated fields.							
Test Hydrant	NBU FH ID #:		Plan Sheet/Hydrant #: Sheet C6.0 16			Private: No	
	Location Description: Old Kruesche Lane						
	Size and Material of Main: 12 inch main C-900 (200)						
	Manufacturer: CLOW			OEM Year: 2023			
	Static PSI: 94	Residual PSI: 53	% Pressure Drop: 43.62	Date and Time: 2/13/2025 11:15 am			
Flow Hydrant 1	NBU FH ID #:		Plan Sheet/Hydrant #: Sheet C6.0 17			Diameter: 2.5	
	Size and Material of Main: 12 inch main C-900 (200)						
	Pitot PSI: 36	Observed Flow:	1007	Minutes Flowed: 2			
	Total Water Loss: 2014						
Flow Hydrant 2 (OPTIONAL)	NBU FH ID #:		Plan Sheet/Hydrant #: Sheet C6.0 17			Diameter: 2.5	
	Size and Material of Main: ~~FLOWING BOTH OUTLETS OF HYDRANT 1~~						
	Pitot PSI: 36	Observed Flow:	1007	Minutes Flowed: 2			
	Total Water Loss: 2014						

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 $Q_f = Q_r \times ((P_s - 20) / (P_s - P_r))^{0.54}$
Cd = 0.9	Qr = 2014
D = 2.5	Ps = 94
Pp = 36	Pr = 53
Hf = 2	Qf = 2770
Qr = 2014	NFPA 291 Standard Color Code : 1500 GPM & Above = Light Blue

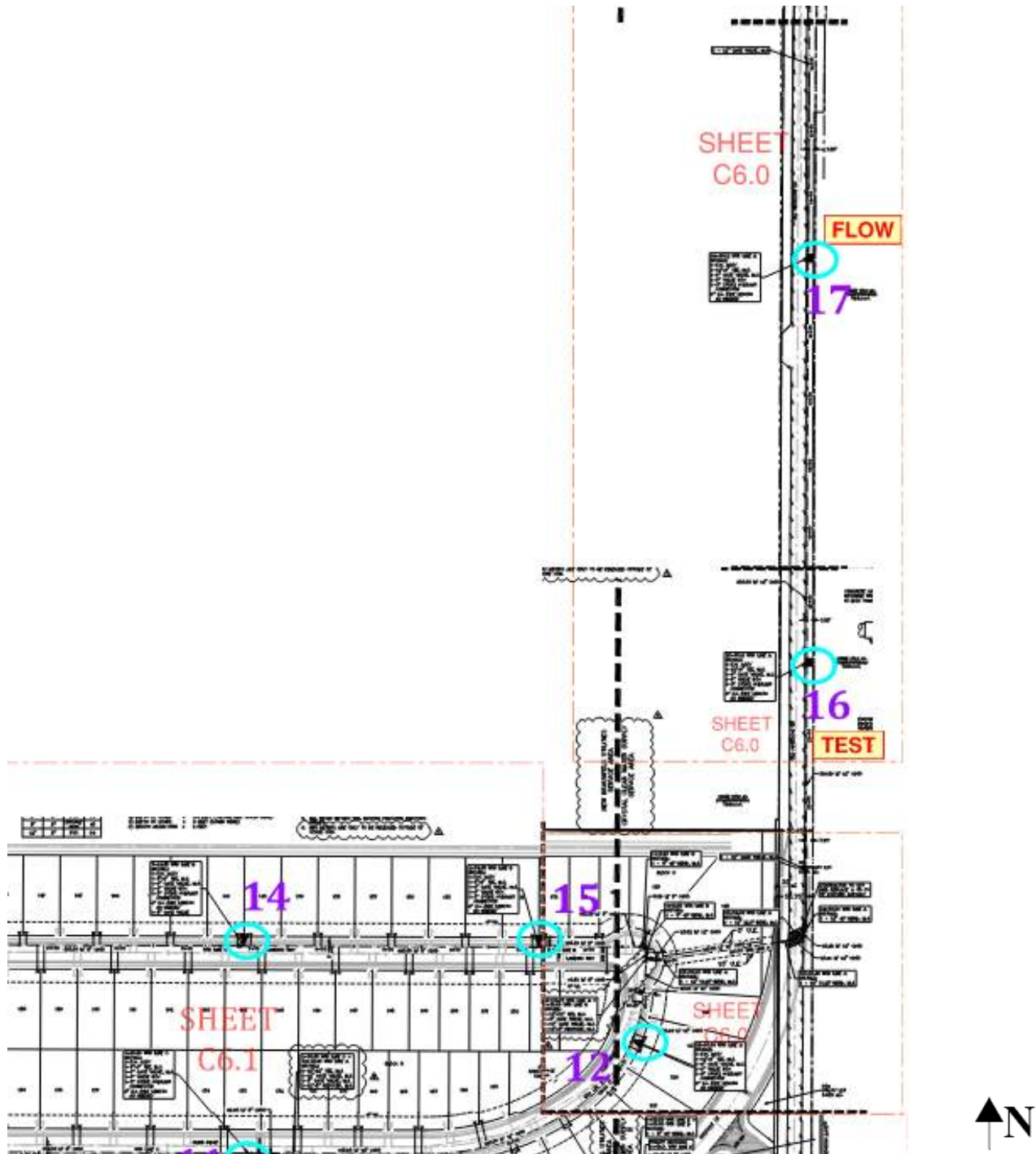
IV. Tester/Company Information	
Flow Test Conducted by: PROTECTION DEVELOPMENT, INCORPORATED	Phone: (210) 828-7533
Business License #: Texas Registered Engineering Firm (F-2816)	
Company Address: 8620 North New Braunfels Avenue, Suite 100, San Antonio, Texas 78217	
Print Name: Alex Akeroyd and Nicholas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

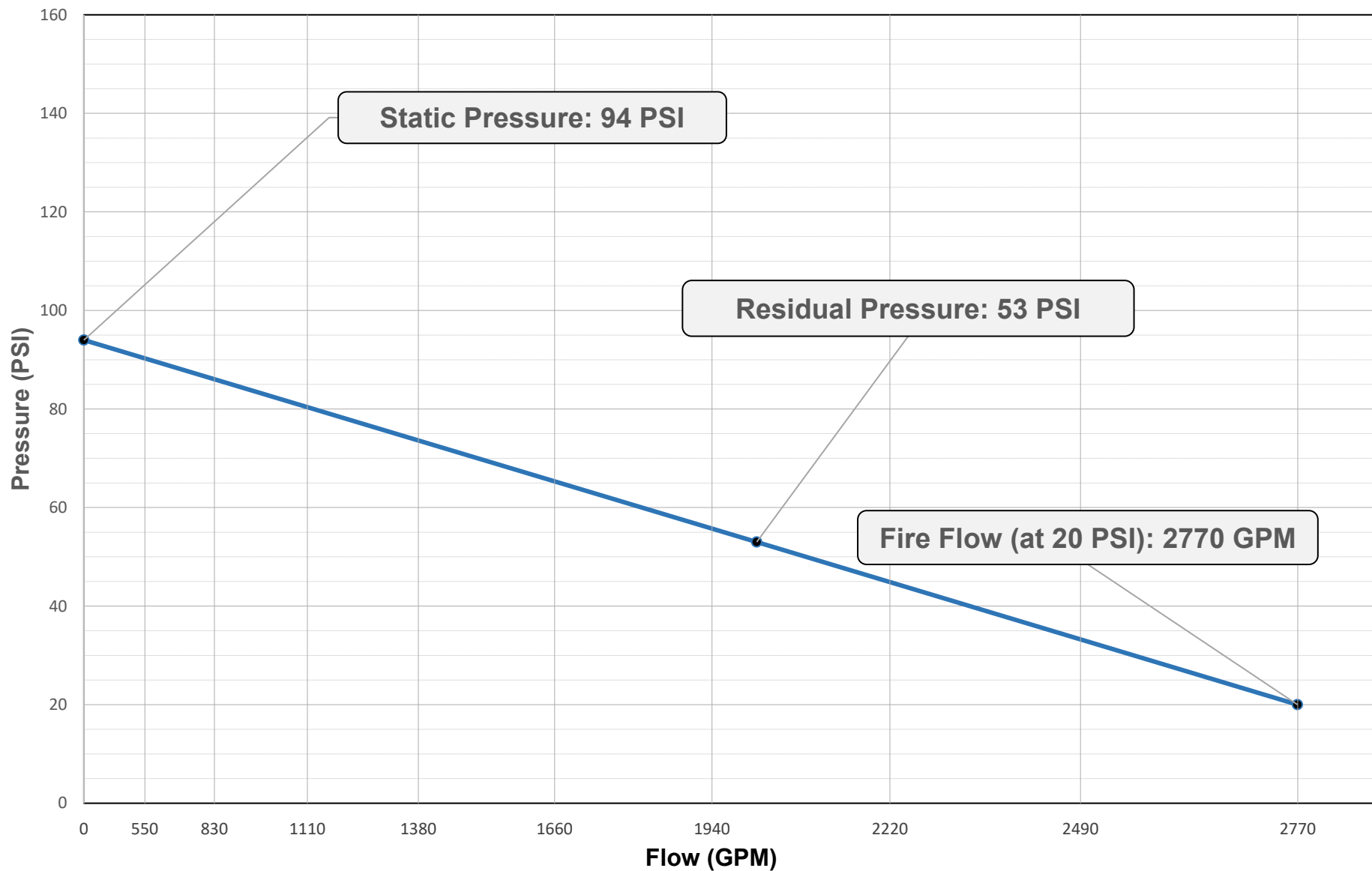
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VI. Sketch (Attach any additional calculations and graphs made by testing company)

Label Hydrant Numbers and Street Names



Project Name:	The Landing Unit 1 - Test #17
Project Number:	25-0033
Test Date:	February 13, 2025
City:	New Braunfels



Static Pressure: 94 PSI	Residual Pressure: 53 PSI	Flow Test @ Residual Pressure: 2,014 GPM	Fire Flow (at 20 PSI): 2,770 GPM
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