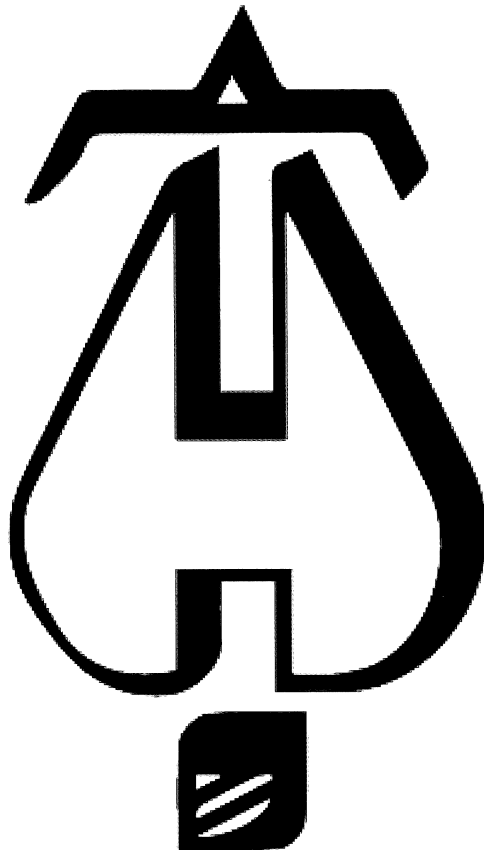




Hydraulic Calculations by HydraCALC

Carolina Fire Protection, Inc.
4055 Hodges Chapel Road
Dunn, NC 28334
910-892-1700

Job Name	: Good Hope remote area 1
Drawing	: Remote area 1 single line
Location	: Erwin, NC
Remote Area	: 1
Contract	: 25G031
Data File	: Good Hope area 1 single line.WXF

Hydraulic Design Information Sheet

Name - Good Hope remote area 1 Date - 9/11/25
Location - Erwin, NC
Building - Remote area 1 single line System No. - 1
Contractor - Carolina Fire Protection, Inc. Contract No. - 25G031
Calculated By - Mark Ford Drawing No. -
Construction: (X) Combustible () Non-Combustible Ceiling Height - 8'-6"
Occupancy - Offices

S (X) NFPA 13 (X) Lt. Haz. Ord.Haz.Gp. () 1 () 2 () 3 () Ex.Haz.
Y () NFPA 231 () NFPA 231C () Figure Curve
S Other

T Specific Ruling Made By Date

E
M Area of Sprinkler Operation - 330 System Type Sprinkler/Nozzle
Density - .10 (X) Wet Make Victaulic
D Area Per Sprinkler - 225 () Dry Model Pendent
E Elevation at Highest Outlet - 8'-6" () Deluge Size 1/2"
S Hose Allowance - Inside - n/a () Preaction K-Factor 5.6
I Rack Sprinkler Allowance - n/a () Other Temp.Rat.155
G Hose Allowance - Outside - 100

N
Note

Calculation Flow Required - 179.718 Press Required - 36.152 BASR
Summary C-Factor Used: 120 Overhead 140 Underground

W Water Flow Test: Pump Data: Tank or Reservoir:
A Date of Test - 9/10/25 Cap. -
T Time of Test - Rated Cap.-
E Static Press - 47 @ Press - Elev.-
R Residual Press - 42 Elev. - Well
Flow - 729 Proof Flow
S Elevation - 0

U
P Location - Denim Drive

P
L Source of Information - Carolina Fire Protection, Inc.

Y

C Commodity Class Location
O Storage Ht. Area Aisle W.
M Storage Method: Solid Piled % Palletized % Rack
M
() Single Row () Conven. Pallet () Auto. Storage () Encap.
S R () Double Row () Slave Pallet () Solid Shelf () Non
T A () Mult. Row () Open Shelf

O C
R K Flue Spacing Clearance:Storage to Ceiling
A Longitudinal Transverse

G
E Horizontal Barriers Provided:

Water Supply Curve

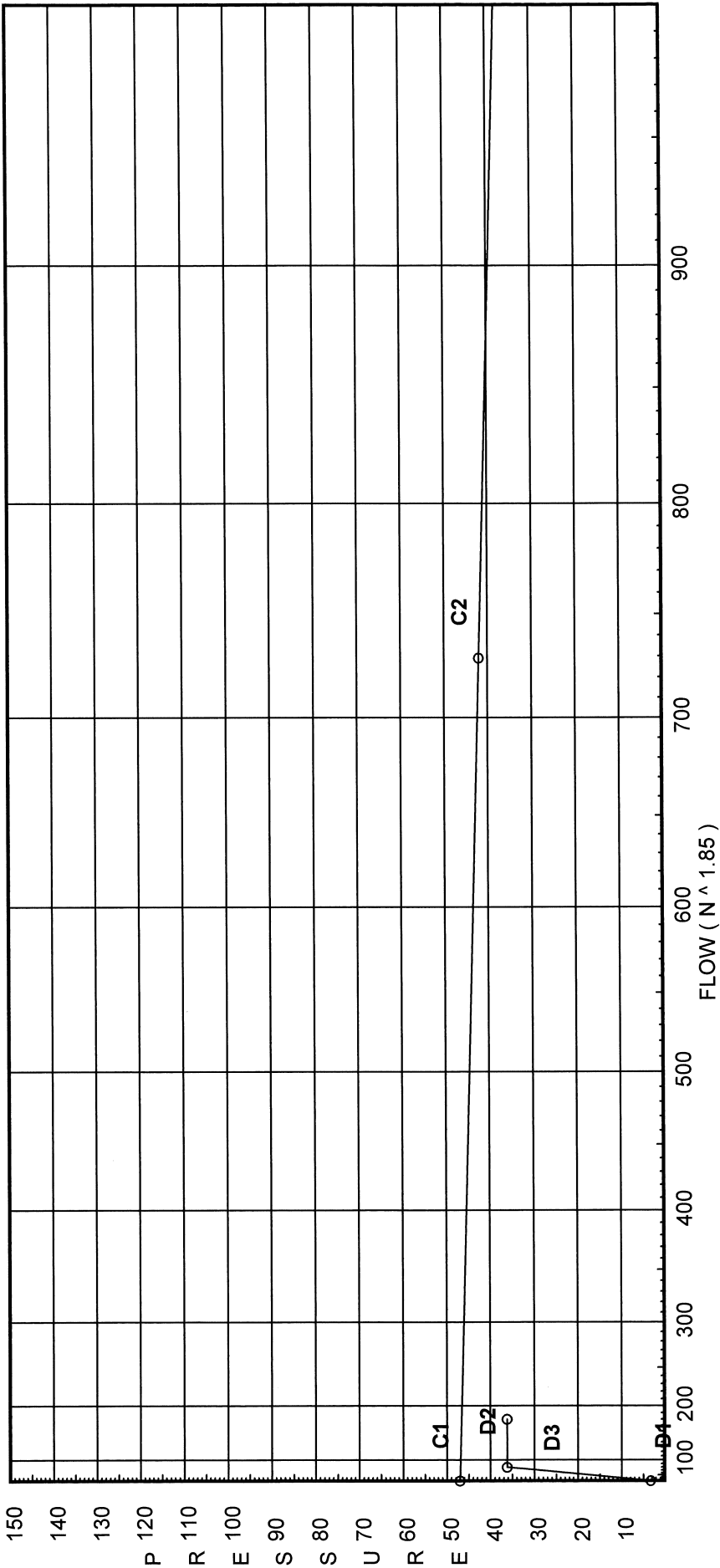
Carolina Fire Protection, Inc.
Good Hope remote area 1

City Water Supply:

C1 - Static Pressure : 47
C2 - Residual Pressure: 42
C2 - Residual Flow : 729

Demand:

D1 - Elevation : 3.248
D2 - System Flow : 79.718
D2 - System Pressure : 36.152
Hose (Demand) : 100
D3 - System Demand : 179.718
Safety Margin : 10.473



Fittings Used Summary

Carolina Fire Protection, Inc.
Good Hope remote area 1

Fitting Legend Abbrev. Name	1/2	3/4	1	1 1/4	1 1/2	2	2 1/2	3	3 1/2	4	5	6	8	10	12	14	16	18	20	24
	Fitting generates a Fixed Loss Based on Flow																			
B NFPA 13 Butterfly Valve	0	0	0	0	0	6	7	10	0	12	9	10	12	19	21	0	0	0	0	0
E NFPA 13 90' Standard Elbow	1	2	2	3	5.5	5	6	5	8	6.8	12	14	18	22	27	35	40	45	50	61
G NFPA 13 Gate Valve	0	0	0	0	0	1	1	1	1	2	2	3	4	5	6	7	8	10	11	13
T NFPA 13 90' Flow thru Tee	3	4	5	6	6.1	10	12	15	17	20	25	30	35	50	60	71	81	91	101	121
Zcj Colt C500 Horiz OSY																				

Units Summary

- Diameter Units Inches
- Length Units Feet
- Flow Units US Gallons per Minute
- Pressure Units Pounds per Square Inch

Note: Fitting Legend provides equivalent pipe lengths for fittings types of various diameters. Equivalent lengths shown are standard for actual diameters of Sched 40 pipe and CFactors of 120 except as noted with *. The fittings marked with a * show equivalent lengths values supplied by manufacturers based on specific pipe diameters and CFactors and they require no adjustment. All values for fittings not marked with a * will be adjusted in the calculation for CFactors of other than 120 and diameters other than Sched 40 per NFPA.

Flow Summary - NFPA

Carolina Fire Protection, Inc.
Good Hope remote area 1

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SUPPLY ANALYSIS

<i>Node at Source</i>	<i>Static Pressure</i>	<i>Residual Pressure</i>	<i>Flow</i>	<i>Available Pressure</i>	<i>Total Demand</i>	<i>Required Pressure</i>
TEST	47.0	42	729.0	46.625	179.72	36.152

NODE ANALYSIS

<i>Node Tag</i>	<i>Elevation</i>	<i>Node Type</i>	<i>Pressure at Node</i>	<i>Discharge at Node</i>	<i>Notes</i>	
1A	8.5	5.6	12.6	19.88	0.1	144
2A	8.5	5.6	12.61	19.89	0.1	100
3A	8.5	5.6	12.69	19.95	0.1	100
4A	8.5	5.6	12.76	20.0	0.1	200
11A	8.5		21.66			
12A	8.5		21.68			
13A	8.5		21.68			
14A	8.5		21.69			
15A	8.5		21.7			
16A	8.5		21.71			
17A	8.5		21.73			
18A	8.5		21.74			
25A	8.5		21.64			
26A	8.5		21.66			
27A	8.5		21.69			
28A	8.5		21.72			
29A	20.5		16.5			
30A	20.5		16.51			
1	9.667		18.4			
2	9.667		18.42			
3	9.667		18.53			
4	9.667		18.63			
L1	9.667		18.65			
F1	11.5		20.34			
5	15.667		18.57			
6	15.667		18.58			
7	15.667		18.59			
8	15.667		18.6			
9	15.667		18.61			
10	15.667		18.62			
F2	11.5		20.34			
11	11.5		20.36			
12	11.5		20.38			
13	11.5		20.39			
14	11.5		20.39			
15	11.5		20.4			
16	11.5		20.41			
17	11.5		20.43			
18	11.5		20.44			
F3	11.5		20.32			
19	23.167		15.32			
20	23.167		15.33			

Flow Summary - NFPA

Carolina Fire Protection, Inc.
Good Hope remote area 1

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NODE ANALYSIS (cont.)

<i>Node Tag</i>	<i>Elevation</i>	<i>Node Type</i>	<i>Pressure at Node</i>	<i>Discharge at Node</i>	<i>Notes</i>
21	23.167		15.34		
22	23.167		15.35		
23	23.167		15.37		
24	23.167		15.38		
F4	11.5		20.3		
25	23.167		15.28		
26	23.167		15.31		
27	23.167		15.34		
28	23.167		15.36		
F5	11.5		20.31		
29	11.5		20.4		
30	11.5		20.4		
31	11.5		20.41		
F6	11.5		20.31		
L2	11.5		20.28		
N1	11.5		20.57		
N2	11.5		20.57		
N7	11.5		20.58		
N3	11.5		20.57		
N4	11.5		20.57		
N5	11.5		20.56		
N8	9.5		21.56		
TASR	9.5		21.96		
BASR	1.0		35.83	100.0	
TEST	1.0		36.15		

Final Calculations : Hazen-Williams

Carolina Fire Protection, Inc.
Good Hope remote area 1

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Node1 to Node2	Elev1 Elev2	K Fact	Qa Qt	Nom Act	Fitting or Equiv Len	Pipe Ftngs Total	CFact Pf/Ft	Pt Pe Pf	*****	Notes	*****
1A to 1	8.500 9.667	5.60	19.88 19.88	1 1.049	T EqL 43.0	1.000 48.000 49.000	120 0.1287	12.603 -0.505 6.306		Vel = 7.38	
1			0.0 19.88					18.404		K Factor = 4.63	
2A to 2	8.500 9.667	5.60	19.89 19.89	1 1.049	T EqL 43.0	1.000 48.000 49.000	120 0.1288	12.614 -0.505 6.311		Vel = 7.38	
2			0.0 19.89					18.420		K Factor = 4.63	
3A to 3	8.500 9.667	5.60	19.95 19.95	1 1.049	T EqL 43.0	1.000 48.000 49.000	120 0.1295	12.690 -0.505 6.345		Vel = 7.41	
3			0.0 19.95					18.530		K Factor = 4.63	
4A to 4	8.500 9.667	5.60	20.00 20.0	1 1.049	T EqL 43.0	1.000 48.000 49.000	120 0.1301	12.755 -0.505 6.376		Vel = 7.42	
4			0.0 20.00					18.626		K Factor = 4.63	
11A to 11	8.500 11.500		0.0 0.0	1 1.049	E T EqL 43.0	2.000 50.000 52.000	120 0	21.663 -1.299 -0.001		Vel = 0	
11			0.0 0.0					20.363		K Factor = 0	
12A to 12	8.500 11.500		0.0 0.0	1 1.049	E T EqL 43.0	8.000 50.000 58.000	120 0	21.677 -1.299 0.0		Vel = 0	
12			0.0 0.0					20.378		K Factor = 0	
13A to 13	8.500 11.500		0.0 0.0	1 1.049	E T EqL 43.0	2.000 50.000 52.000	120 0	21.685 -1.299 0.0		Vel = 0	
13			0.0 0.0					20.386		K Factor = 0	
14A to 14	8.500 11.500		0.0 0.0	1 1.049	E T EqL 43.0	2.000 50.000 52.000	120 0	21.692 -1.299 -0.001		Vel = 0	
14			0.0 0.0					20.392		K Factor = 0	
15A to 15	8.500 11.500		0.0 0.0	1 1.049	E T EqL 43.0	2.000 50.000 52.000	120 0	21.696 -1.299 0.0		Vel = 0	
15			0.0 0.0					20.397		K Factor = 0	
16A to 16	8.500 11.500		0.0 0.0	1 1.049	E T EqL 43.0	2.000 50.000 52.000	120 0	21.712 -1.299 0.0		Vel = 0	

Final Calculations : Hazen-Williams

Carolina Fire Protection, Inc.
Good Hope remote area 1

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Node1 to Node2	Elev1 Elev2	K Fact	Qa Qt	Nom Act	Fitting or Equiv	Len	Pipe Ftngs Total	CFact Pf/Ft	Pt Pe Pf	*****	Notes	*****
16			0.0 0.0						20.413		K Factor = 0	
17A to 17	8.500 11.500		0.0 0.0	1 1.049	E T Eql	2.0 5.0 43.0	8.000 50.000 58.000	120 0	21.732 -1.299 0.0		Vel = 0	
17			0.0 0.0						20.433		K Factor = 0	
18A to 18	8.500 11.500		0.0 0.0	1 1.049	E T Eql	2.0 5.0 43.0	2.000 50.000 52.000	120 0	21.736 -1.299 0.0		Vel = 0	
18			0.0 0.0						20.437		K Factor = 0	
25A to 25	8.500 23.167		0.0 0.0	1 1.049	E T Eql	2.0 5.0 43.0	2.000 50.000 52.000	120 0	21.635 -6.352 0.0		Vel = 0	
25			0.0 0.0						15.283		K Factor = 0	
26A to 26	8.500 23.167		0.0 0.0	1 1.049	E T Eql	2.0 5.0 43.0	2.000 50.000 52.000	120 0	21.661 -6.352 0.0		Vel = 0	
26			0.0 0.0						15.309		K Factor = 0	
27A to 27	8.500 23.167		0.0 0.0	1 1.049	E T Eql	2.0 5.0 43.0	2.000 50.000 52.000	120 0	21.691 -6.352 0.0		Vel = 0	
27			0.0 0.0						15.339		K Factor = 0	
28A to 28	8.500 23.167		0.0 0.0	1 1.049	E T Eql	2.0 5.0 43.0	2.000 50.000 52.000	120 0	21.717 -6.352 0.0		Vel = 0	
28			0.0 0.0						15.365		K Factor = 0	
29A to 29	20.500 11.500		0.0 0.0	1 1.049	2E T	4.0 5.0	24.000 9.000 33.000	120 0	16.504 3.898 0.0		Vel = 0	
29			0.0 0.0						20.402		K Factor = 0	
30A to 30	20.500 11.500		0.0 0.0	1 1.049	T	5.0	9.000 5.000 14.000	120 0	16.506 3.898 0.0		Vel = 0	
30			0.0 0.0						20.404		K Factor = 0	
1 to 2	9.667 9.667		19.88 19.88	2 2.157			4.000 4.000	120 0.0040	18.404 0.0 0.016		Vel = 1.75	
2 to 3	9.667 9.667		19.89 39.77	2 2.157			8.000 8.000	120 0.0138	18.420 0.0 0.110		Vel = 3.49	

Final Calculations : Hazen-Williams

Carolina Fire Protection, Inc.
Good Hope remote area 1

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Node1 to Node2	Elev1 Elev2	K Fact	Qa Qt	Nom Act	Fitting or Equiv Len	Pipe Ftngs Total	CFact Pf/Ft	Pt Pe Pf	*****	Notes	*****
3 to L1	9.667 9.667		19.95 59.72	2 2.157		4.000 4.000	120 0.0295	18.530 0.0 0.118		Vel = 5.24	
L1			0.0 59.72					18.648		K Factor = 13.83	
4 to L1	9.667 9.667		20.00 20.0	2 2.157		5.667 5.667	120 0.0039	18.626 0.0 0.022		Vel = 1.76	
L1 to L2	9.667 11.500		59.72 79.72	2 2.157	2T 2E 24.613 12.307	11.500 36.920 48.420	120 0.0502	18.648 -0.794 2.431		Vel = 7.00	
L2			0.0 79.72					20.285		K Factor = 17.70	
F1 to 5	11.500 15.667		11.37 11.37	2 2.157	E T 6.153 12.307	5.000 18.460 23.460	120 0.0014	20.338 -1.805 0.033		Vel = 1.00	
5 to 6	15.667 15.667		0.0 11.37	2 2.157		7.667 7.667	120 0.0013	18.566 0.0 0.010		Vel = 1.00	
6 to 7	15.667 15.667		0.0 11.37	2 2.157		7.667 7.667	120 0.0014	18.576 0.0 0.011		Vel = 1.00	
7 to 8	15.667 15.667		0.0 11.37	2 2.157		7.667 7.667	120 0.0013	18.587 0.0 0.010		Vel = 1.00	
8 to 9	15.667 15.667		0.0 11.37	2 2.157		7.667 7.667	120 0.0014	18.597 0.0 0.011		Vel = 1.00	
9 to 10	15.667 15.667		0.0 11.37	2 2.157		7.667 7.667	120 0.0013	18.608 0.0 0.010		Vel = 1.00	
10 to N1	15.667 11.500		0.0 11.37	2 2.157	5E T 30.767 12.307	65.833 43.074 108.907	120 0.0014	18.618 1.805 0.149		Vel = 1.00	
N1			0.0 11.37					20.572		K Factor = 2.51	
F2 to 11	11.500 11.500		13.83 13.83	2 2.157	T 12.307	1.917 12.307 14.224	120 0.0020	20.335 0.0 0.028		Vel = 1.21	
11 to 12	11.500 11.500		0.0 13.83	2 2.157		7.250 7.250	120 0.0021	20.363 0.0 0.015		Vel = 1.21	
12 to 13	11.500 11.500		0.0 13.83	2 2.157		4.000 4.000	120 0.0020	20.378 0.0 0.008		Vel = 1.21	
13 to 14	11.500 11.500		0.0 13.83	2 2.157		3.583 3.583	120 0.0017	20.386 0.0 0.006		Vel = 1.21	

Final Calculations : Hazen-Williams

Carolina Fire Protection, Inc.
Good Hope remote area 1

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Node1 to Node2	Elev1 Elev2	K Fact	Qa Qt	Nom Act	Fitting or Equiv	Len	Pipe Ftngs Total	CFact Pf/Ft	Pt Pe Pf	*****	Notes	*****
14 to 15	11.500 11.500		0.0 13.83	2 2.157			2.333 2.333	120 0.0021	20.392 0.0 0.005		Vel = 1.21	
15 to 16	11.500 11.500		0.0 13.83	2 2.157			8.000 8.000	120 0.0020	20.397 0.0 0.016		Vel = 1.21	
16 to 17	11.500 11.500		0.0 13.83	2 2.157			10.250 10.250	120 0.0020	20.413 0.0 0.020		Vel = 1.21	
17 to 18	11.500 11.500		0.0 13.83	2 2.157			1.917 1.917	120 0.0021	20.433 0.0 0.004		Vel = 1.21	
18 to N2	11.500 11.500		0.0 13.83	2 2.157	T	12.307	57.083 12.307 69.390	120 0.0020	20.437 0.0 0.136		Vel = 1.21	
N2			0.0 13.83						20.573		K Factor = 3.05	
F3 to 19	11.500 23.167		12.48 12.48	2 2.157	E T	6.153 12.307	12.500 18.460 30.960	120 0.0016	20.319 -5.053 0.050		Vel = 1.10	
19 to 20	23.167 23.167		0.0 12.48	2 2.157			7.667 7.667	120 0.0017	15.316 0.0 0.013		Vel = 1.10	
20 to 21	23.167 23.167		0.0 12.48	2 2.157			7.667 7.667	120 0.0016	15.329 0.0 0.012		Vel = 1.10	
21 to 22	23.167 23.167		0.0 12.48	2 2.157			7.667 7.667	120 0.0017	15.341 0.0 0.013		Vel = 1.10	
22 to 23	23.167 23.167		0.0 12.48	2 2.157			7.667 7.667	120 0.0016	15.354 0.0 0.012		Vel = 1.10	
23 to 24	23.167 23.167		0.0 12.48	2 2.157			7.667 7.667	120 0.0017	15.366 0.0 0.013		Vel = 1.10	
24 to N3	23.167 11.500		0.0 12.48	2 2.157	E T	6.153 12.307	68.833 18.460 87.293	120 0.0016	15.379 5.053 0.141		Vel = 1.10	
N3			0.0 12.48						20.573		K Factor = 2.75	
F4 to 25	11.500 23.167		14.54 14.54	2 2.157	T	12.307	2.250 12.307 14.557	120 0.0022	20.304 -5.053 0.032		Vel = 1.28	
25 to 26	23.167 23.167		0.0 14.54	2 2.157			12.000 12.000	120 0.0022	15.283 0.0 0.026		Vel = 1.28	
26 to 27	23.167 23.167		0.0 14.54	2 2.157			14.083 14.083	120 0.0021	15.309 0.0 0.030		Vel = 1.28	

Final Calculations : Hazen-Williams

Carolina Fire Protection, Inc.
Good Hope remote area 1

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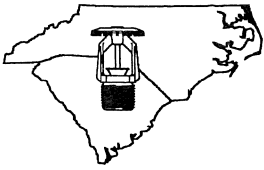
Node1 to Node2	Elev1 Elev2	K Fact	Qa Qt	Nom Act	Fitting or Equiv Len	Pipe Ftngs Total	CFact Pf/Ft	Pt Pe Pf	*****	Notes	*****
27 to 28	23.167 23.167		0.0 14.54	2 2.157		11.917 11.917	120 0.0022	15.339 0.0 0.026		Vel = 1.28	
28 to N4	23.167 11.500		0.0 14.54	2 2.157	T 12.307	57.000 12.307 69.307	120 0.0021	15.365 5.053 0.149		Vel = 1.28	
N4			0.0 14.54					20.567		K Factor = 3.21	
F5 to 29	11.500 11.500		13.40 13.4	2 2.157	E T 12.307	32.000 18.460 50.460	120 0.0018	20.309 0.0 0.093		Vel = 1.18	
29 to 30	11.500 11.500		0.0 13.4	2 2.157		0.750 0.750	120 0.0027	20.402 0.0 0.002		Vel = 1.18	
30 to 31	11.500 11.500		0.0 13.4	2 2.157		3.000 3.000	120 0.0017	20.404 0.0 0.005		Vel = 1.18	
31 to N5	11.500 11.500		0.0 13.4	2 2.157	E T 12.307	61.000 18.460 79.460	120 0.0018	20.409 0.0 0.147		Vel = 1.18	
N5			0.0 13.40					20.556		K Factor = 2.96	
F6 to N6	11.500 0		14.09 14.09	2 2.157	2T 24.613	96.333 24.613 120.946	120 0.0020	20.310 4.981 0.246		Vel = 1.24	
N6			0.0 14.09					25.537		K Factor = 2.79	
F1 to F2	11.500 11.500		-11.37 -11.37	2.5 2.635		5.750 5.750	120 -0.0005	20.338 0.0 -0.003		Vel = 0.67	
F2 to F3	11.500 11.500		-13.83 -25.2	2.5 2.635		7.333 7.333	120 -0.0022	20.335 0.0 -0.016		Vel = 1.48	
F3 to F4	11.500 11.500		-12.49 -37.69	2.5 2.635		3.083 3.083	120 -0.0049	20.319 0.0 -0.015		Vel = 2.22	
F4 to L2	11.500 11.500		-14.54 -52.23	2.5 2.635		2.250 2.250	120 -0.0084	20.304 0.0 -0.019		Vel = 3.07	
L2 to F5	11.500 11.500		79.72 27.49	2.5 2.635		9.083 9.083	120 0.0026	20.285 0.0 0.024		Vel = 1.62	
F5 to F6	11.500 11.500		-13.40 14.09	2.5 2.635		1.500 1.500	120 0.0007	20.309 0.0 0.001		Vel = 0.83	
F6			0.0 14.09					20.310		K Factor = 3.13	

Final Calculations : Hazen-Williams

Carolina Fire Protection, Inc.
Good Hope remote area 1

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Node1 to Node2	Elev1 Elev2	K Fact	Qa Qt	Nom Act	Fitting or Equiv	Len	Pipe Ftngs Total	CFact Pf/Ft	Pt Pe Pf	*****	Notes	*****
N1 to N2	11.500 11.500		11.37 11.37	3 3.26			5.750 5.750	120 0.0002	20.572 0.0 0.001		Vel = 0.44	
N2 to N7	11.500 11.500		13.83 25.2	3 3.26			6.000 6.000	120 0.0008	20.573 0.0 0.005		Vel = 0.97	
N7 to N3	11.500 11.500		-79.71 -54.51	3 3.26			1.333 1.333	120 -0.0038	20.578 0.0 -0.005		Vel = 2.10	
N3 to N4	11.500 11.500		12.48 -42.03	3 3.26			3.083 3.083	120 -0.0019	20.573 0.0 -0.006		Vel = 1.62	
N4 to N5	11.500 11.500		14.54 -27.49	3 3.26			11.333 11.333	120 -0.0010	20.567 0.0 -0.011		Vel = 1.06	
N5 to N6	11.500 0		13.40 -14.09	3 3.26			1.500 1.500	120 0	20.556 4.981 0.0		Vel = 0.54	
N6			0.0 -14.09						25.537		K Factor = -2.79	
N7 to N8	11.500 9.500		79.72 79.72	4 4.26	2E T	17.907 26.334	21.750 44.241 65.991	120 0.0018	20.578 0.866 0.120		Vel = 1.79	
N8 to TASR	9.500 9.500		0.0 79.72	4 4.26	5E	44.768	171.000 44.768 215.768	120 0.0018	21.564 0.0 0.394		Vel = 1.79	
TASR to BASR	9.500 1		0.0 79.72	4 4.26	B 2E Zcj	15.8 17.907 0.0	15.000 33.707 48.707	120 0.0018	21.958 13.786 0.089		* * Fixed Loss = 10.104 Vel = 1.79	
BASR to TEST	1 1	H100	100.00 179.72	6 6.16	3E T 2G	60.252 43.037 8.607	200.000 111.896 311.896	140 0.0010	35.833 0.0 0.319		Vel = 1.93	
TEST			0.0 179.72						36.152		K Factor = 29.89	



Carolina Fire Protection, Inc.

P.O. Box 250
Dunn, NC 28335

Phone: (910) 892-1700
Fax: (910) 892-7322

Hydrant Flow Test

SERVICE LOCATION:

Address: _____ 410 Denim Drive Erwin, NC 28339 _____

Proposed Tap Location: _____ N/A _____

Requested Flow Location: _____ See marked-up Map _____

TESTING AGENT:

Firm Name: _____ Carolina Fire Protection, Inc. _____

Address: _____ 4055 Hodges Chapel Rd Dunn, NC _____

Phone: _____ (910) 892-1700 _____ Fax: _____ (910) 892-7322 _____

RESULTS:

Static Pressure: _____ 47 _____ psi Flowing Pressure: _____ 19 _____ psi

Residual Pressure: _____ 42 _____ psi Volume: _____ 729 _____ gpm

Comments: _____

Completed By: _____ Andrew Dorman _____ Date: _____ 9/09/2025 _____

Signature: _____ Time of Test: _____ 10:30am _____

FIRE FLOW LOCATION SKETCH: (See Map on Page 2)



