

# FRIENDSVIEW RCF PHASE 1

## Exhibit I: Hydrant Flow Test

# HYDRANT FLOW TEST REPORT



Friendsview/3199/ 1301 Fulton

Project Name/#/Address:

Street

Client:

LRS Architects, Inc.

Date:

4/27/2020

Document Owner: John Christiansen

## SAFETY PLAN

N/A	Notify fire department
X	Identify discharge point
X	Verify downstream
N/A	Traffic Control
N/A	Signage/Cones
X	PPE

Date/time of test: 04/27/2020 - 8:00 AM

Tested by: Brent Whittaker / Waylon Knight

Witness: City of Newberg Public Works

Test duration: 5 Minutes

## FLOWED HYDRANT

1-F

Make: MH

Static: 88 PSI

Pitot: 22 PSI

Inside diameter of outlet: 2.5 Inch

Discharge coeff: N/A

Observed flow: 735 GPM

Flow method: LPD-250 Difuser, de-chlor

Ground elevation: 193 FT

Location description: Eastern intersection of East Cherry Street & Fulton Street

## GAUGE HYDRANT

1-G

Make: MH

Static: 85 PSI

Residual: 82 PSI

Ground Elevation: 198 FT

Location Description: 200 feet west on East Cherry Street from main entrance

## PROJECTED FIRE FLOW

Projected Flow at 20-PSI: 3869 GPM

## NOTES/OBSERVATIONS

$Q_{\text{Flowed}} = 29.84 * (P_{\text{pitot}}^{.5}) * (D_{\text{outlet}}^{.2}) * C$

$Q_{\text{Projected}} = QF * ((GS - P_{\text{design}})^{.54}) / ((GS - GR)^{.54})$

✓ JPC  
4/27/20

Photo Report by AKS Engineering & Forestry

Apr 27, 2020 | 5 Photos



## 3199 Friendsview

Hydrant Flow test





Static pressure on flowed hydrant at intersection of  
Fulton Street and East Cherry Street

Project: 3199 Friendsview  
Date: April 27th, 2020, 8:10 a.m.  
Creator: Waylon Knight



Static pressure on gauge hydrant located in front of 1013 N Center Street.

Project: 3199 Friendsview  
Date: April 27th, 2020, 8:13 a.m.  
Creator: Waylon Knight



Pitot reading with dechlor diffuser on flowed hydrant located on Fulton Street  
and East Cherry Street

Project: 3199 Friendsview  
Date: April 27th, 2020, 8:14 a.m.  
Creator: Brent Whittaker



Residual pressure on flowed hydrant at intersection of Fulton Street and East Cherry Street

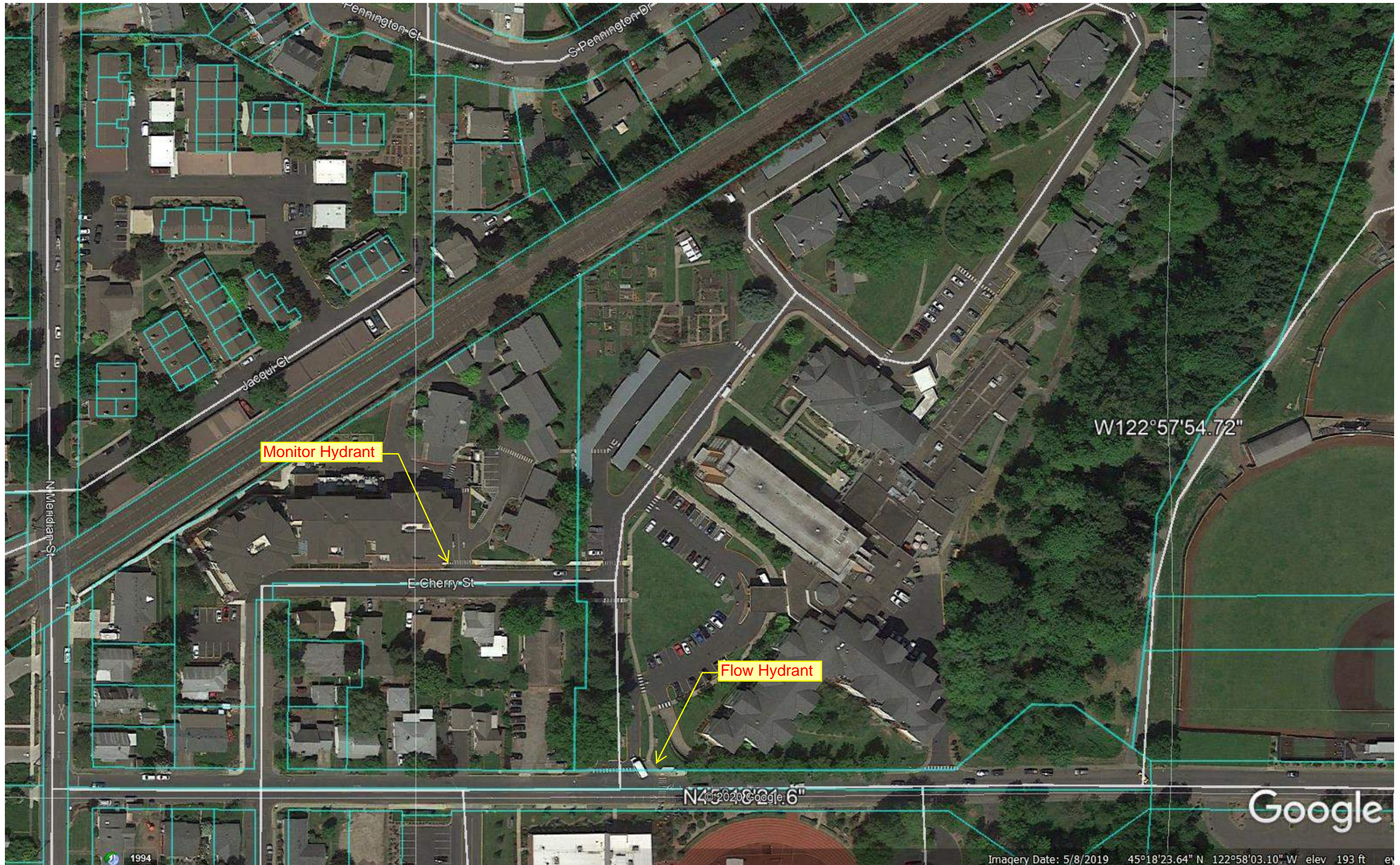
Project: 3199 Friendsview  
Date: April 27th, 2020, 8:14 a.m.  
Creator: Brent Whittaker



Residual Pressure on guage hydrant in front of 1013 N Center Street

Project: 3199 Friendsview  
Date: April 27th, 2020, 8:15 a.m.  
Creator: Waylon Knight





Monitor Hydrant

Flow Hydrant

W122°57'54.72"

N45°00'01.6"

Google

Imagery Date: 5/8/2019 45°18'23.64" N 122°58'03.10" W elev 193 ft

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