



Water System Analysis

CITY OF BELLEVIEW

Prepared for:

City of Belleview

Prepared by:

Kimley-Horn and Associates, Inc.

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January 2106
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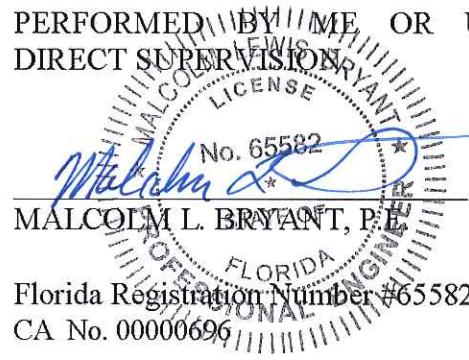
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EXECUTIVE SUMMARY

The primary objective of this report is to document the methodology used to create the City of Belleview potable water distribution system hydraulic model and the results of the existing system analysis.

Currently, the City operates and maintains the following water system infrastructure:

- Water distribution system comprised of approximately 90 miles of water pipelines ranging from 2" – 12" in diameter
- Two active production wells (Well #5 and Well #6)
- Two Water Treatment Plants (WTP-1 and WTP-2)
- 0.5 Million Gallon (MG) elevated storage tank (E-1)
- Two 10,000 Gallon hydropneumatic tanks
- 465 Fire Hydrants (Includes service fire hydrants and blow-off hydrants)
- 3,750 Service Connections (2,056 are manually read; 1,694 are radio read) serving approximately 8,483 customers.

A hydraulic water model was developed and calibrated for the City's existing water system. Calibration of the model was conducted using current operating conditions of the wells, monthly operating reports, consumption data, and fire flow data recorded in the field. The existing system was modeled under four separate demand scenarios – average day, max day, max day plus fire flow, and peak hour. The results of the model show that the City's system does not demonstrate significant pressure problems. However, the model is showing deficiencies and weaknesses in meeting the fire flow requirement of 1,000 gpm in specific areas of the system (See Table E-1 below). The fire hydrants connected to water lines less than 6" were assumed to be blow-off hydrants, and were not included in the analysis for minimum and average available fire flow.

<i>Table E-1: Fire Hydrant Analysis</i>			
Actual Fire Hydrant	Model Hydrant Node	WTP-1 – Lead Available Fire Flow	WTP-2 – Lead Available Fire Flow
FH-6	H-407	937.75	950.07
FH-411	H-454	970.35	984.20
FH-97	H-397	994.65	999.51
FH-68	H-260	1,012.50	964.45

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INTRODUCTION

Background

The City of Belleview (City) is located on the southern side of Marion County, Florida just southeast of Ocala, FL. In accordance with State Statute Chapter 180, the City has established a water service territory that generally extends 5 miles beyond the City limits. The City owns and operates the potable water and sanitary sewer systems located within the City limits and parts beyond. This master hydraulic model was assembled to assist the City in identifying areas of deficiency within the water and sanitary force main systems.

Scope and Objectives

The primary objective of this report is to assess the performance of the existing potable water system currently owned and operated by the City of Belleview.

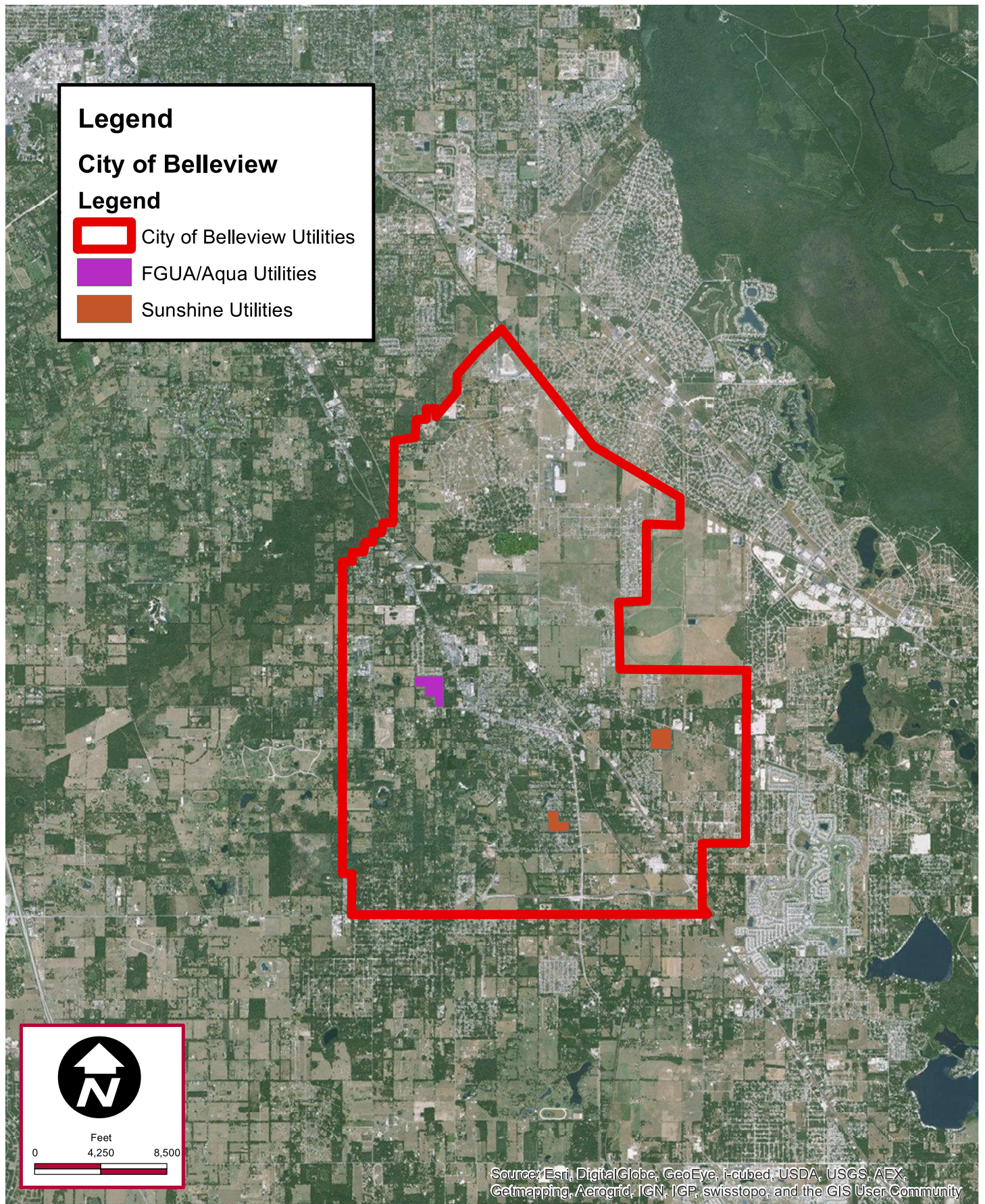
Water System objectives:

- Gather existing system information and develop a master computer model of the City's potable water system using WaterCAD.
- Calibrate the model using actual fire hydrant flow test results.
- Develop a report that summarizes the water system model development and calibration
- Identify areas of deficiency

SERVICE AREA DESCRIPTION

The City is located in the southern half of Marion County, Florida. In accordance with State Statute Chapter 180, the City established a water and wastewater service territory (by City Ordinance 96-10) that generally extends 5 miles beyond the City limits. The City limits comprise approximately 3.3 square miles. The City's service area comprises approximately 27 square miles. From north to south, the service area extends from the Baseline Landfill to SE 135th Street. From east to west the service area extends from the Belleview Library to the Green Meadows subdivision. See **Figure 1** for a map of the present City of Belleview Service Territory.

\\locap01\Data\Project\OCA_Civil\042232003 - Belleview Water Modeling\GIS\Figures\Working Map.mxd - 7/23/2015 12:56:38 PM - shelby.hughes



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SERVICE TERRITORY MAP

**WATER AND SEWER SYSTEM EVALUATION
CITY OF BELLEVIEW, FLORIDA**

Scale: As Noted

Project No.: 042232003

JULY 2015

Figure 1

EXISTING WATER SYSTEM

Introduction

This section discusses the existing potable water systems owned and operated by the City of Belleview.

The potable water supply wells are permitted by the Saint Johns River Water Management District (SJRWMD). The SJRWMD issues consumptive use permits (CUP) that allocate an allowable groundwater withdrawal quantity for the system. The City of Belleview currently operates under CUP No. 3137. Construction, operation, and modifications of the water treatment facilities are controlled by the Florida Department of Environmental Protection (FDEP). The existing water treatment plants (WTP's) were all constructed under FDEP permit PWS-ID No. 3420074. As a condition of the FDEP construction permits, the City must submit MORs that document the daily quantity of finished water produced. Operation of these facilities is monitored by the FDEP through annual sanitary survey compliance inspections and review of reports submitted by the City.

Water Supply Permits

The FDEP is responsible for permitting the design and construction of new potable water supply systems that provide water to 25 or more people for at least 60 days each year or serves 15 or more service connections. Very small water systems that do not fit the above description are regulated by the Florida Department of Health and the county health departments. The construction of potable water supply wells, both public and private, and the quantities of water that may be extracted, are regulated by SJRWMD. Construction of individual private water wells are regulated by the County health departments.

SJRWMD is responsible for permitting and monitoring the quantities of groundwater pumped to potable water supply systems in the City. **Table 1**, below summarizes the permitted groundwater withdrawals under CUP No. 3137.

<i>Table 1: Consumptive Use Permitted Groundwater Withdrawal</i>		
Year	Allowable Withdrawals (Million Gallons per Year)	Allowable Withdrawals (Million Gallons per Day ADF)
2009	349.305	0.957
2010	357.700	0.980
2011	375.220	1.028
2012	392.740	1.076
2013	409.895	1.123
2014	427.415	1.171
2015	444.935	1.219
2016	462.455	1.267

City of Belleview Water System

The City's system serves primarily residential customers within the City limits. The City's system is identified by the FDEP as PWS-ID No. 3420074. The system serves a total population of 8,453 City residents with approximately 3,750 connections. The design capacity of the system is 2.232 MGD (2,232,000 GPD) (max day demand). According to the FDEP Sanitary Survey Report dated January 18,

2013, the only deficiency reported was failure to obtain written approval and/or a construction permit from FDEP prior to modifying a WTP.

Existing Distribution System

The distribution network has approximately 90 miles of water main varying from 2" to 12" in diameter. The water main pipe material is variable but generally consists of PVC, ductile iron, cast iron, asbestos cement, or galvanized. See the *City of Belleview Water Atlas* for a map of the City water distribution system. See **Table 2** below for existing pipe lengths by diameter.

Table 2: Existing Pipe Lengths	
Pipe Size (diameter)	Total Length of Pipe (feet)
12 –inch	94,771
10 – inch	3,922
8 – inch	105,438
6 - inch	216,374
4 – inch	28,375
3 – inch	9,854
2 - inch	9,188

Existing Water Treatment and Storage Facilities

The City's water system consists of two active public supply wells, two WTPs, two hydropneumatic tanks, and one elevated storage tank. The wells are permitted to withdraw an average flow of 1.219 MGD for 2015. The CUP allows for a maximum withdrawal of 3.74 MGD for fire protection. The City's water supply and treatment system consists of the components shown in **Table 3** below.

Table 3: City of Belleview Water Treatment Components			
Component	Size/Capacity	Operating Conditions	Status
Water Supply Well #5/WTP-1	8" diameter/940gpm*	Lead On/Off: 62.0 PSI/66.0 PSI Lag On/Off: 58.0 PSI/66.0 PSI	Active
Water Supply Well #6/WTP-2	16" diameter/950gpm*	Lead On/Off: 62.0 PSI/66.0 PSI Lag On/Off: 58.0 PSI/66.0 PSI	Active
Water Supply Well #4	10" diameter/N/A	Lead On/Off: N/A Lag On/Off: N/A	Inactive
Elevated Storage Tank (E-1)	500,000 gallons	Maximum: 70.5 PSI Initial: 66.0 PSI Minimum: 56.0 PSI	Active
Hydropneumatic Tanks (H-1 and H-2)	10,000 gallons (each)	Maximum: 70.0 PSI Minimum: 84.0 PSI	Active
Consumptive Use Permit	1.219 MGD**		Expires 11/07/2016

*gpm = gallons per minute; **MGD = million gallons per day

WTP-1 (Well #5)

WTP-1 is located at 12164 SE 53rd Terrace, Belleview. According to 2014-2015 MOR's, the plant produces an average of 0.449 MGD. The maximum daily production for this plant was 1.066 MGD. The FDEP permitted MDD capacity is 1.220 MGD. The firm pumping capacity of the WTP (largest installed pump out of service) is 0 MGD.

The plant is directly connected to the water distribution system and has one ground water well that pumps from the Floridan aquifer. See **Table 4** for a summary of the well and well pump.

<i>Table 4: WTP-1 (Well #5)</i>							
Well Number	Dia. (in.)	Total Depth (ft.)	Well Yield (gpm)	Pump Type	Pump Horse-power	Pump Capacity (gpm)	Maximum Chlorine Demand
#5	16	250	940	Vertical Turbine	100	940	3.16 mg/L

Disinfection for this plant is provided by a flow proportional sodium hypochlorite liquid injection. On-site storage for this plant is provided by a 500,000 elevated storage tank (E-1). E-1 "floats" on the system (i.e. Well #5 does not pump directly into E-1) and is served by both the wells, depending on which is acting as the lead WTP.

WTP-2 (Well #6)

WTP-2 is located at 4505 SE 100th Street, Belleview. According to 2014-2015 MOR's, the plant produces an average of 0.319 MGD. The maximum daily production for this plant was 1.007 MGD. The FDEP permitted MDD capacity is 0.864 MGD. The firm pumping capacity of the WTP (largest installed pump out of service) is 0 MGD.

The plant is equipped with two hydropneumatic tanks and one ground water well that pumps from the upper Floridan aquifer. See **Table 5** for a summary of the well and well pump.

<i>Table 5: WTP-2 (Well #6)</i>							
Well Number	Dia. (in.)	Total Depth (ft.)	Well Yield (gpm)	Pump Type	Pump Horse-power	Pump Capacity (gpm)	Maximum Chlorine Demand
#6	16	300	950	Vertical Turbine	100	950	1.64 mg/L

Disinfection for this plant is provided by a flow proportional sodium hypochlorite liquid injection. On-site storage for this plant is provided by two 10,000 gallon hydropneumatic tanks.

Flow Data

The City water demands were determined from the monthly billing data for the period of June 2014 to May 2015. The billing data was separated into low and high users. The total water used by low flow users was averaged and divided by the number of nodes in the model. All high users used a cumulative amount of 40,000 gallons of water or more per month, or greater, for at least one month within the 12 month billing

cycle. Each high user's water demand was averaged over 12 months and applied to the corresponding node in the model. This method was used to improve accuracy and to model more realistic conditions throughout the City. The billing data was compared to the average use shown in the MORs to check for consistency and possible water loss.

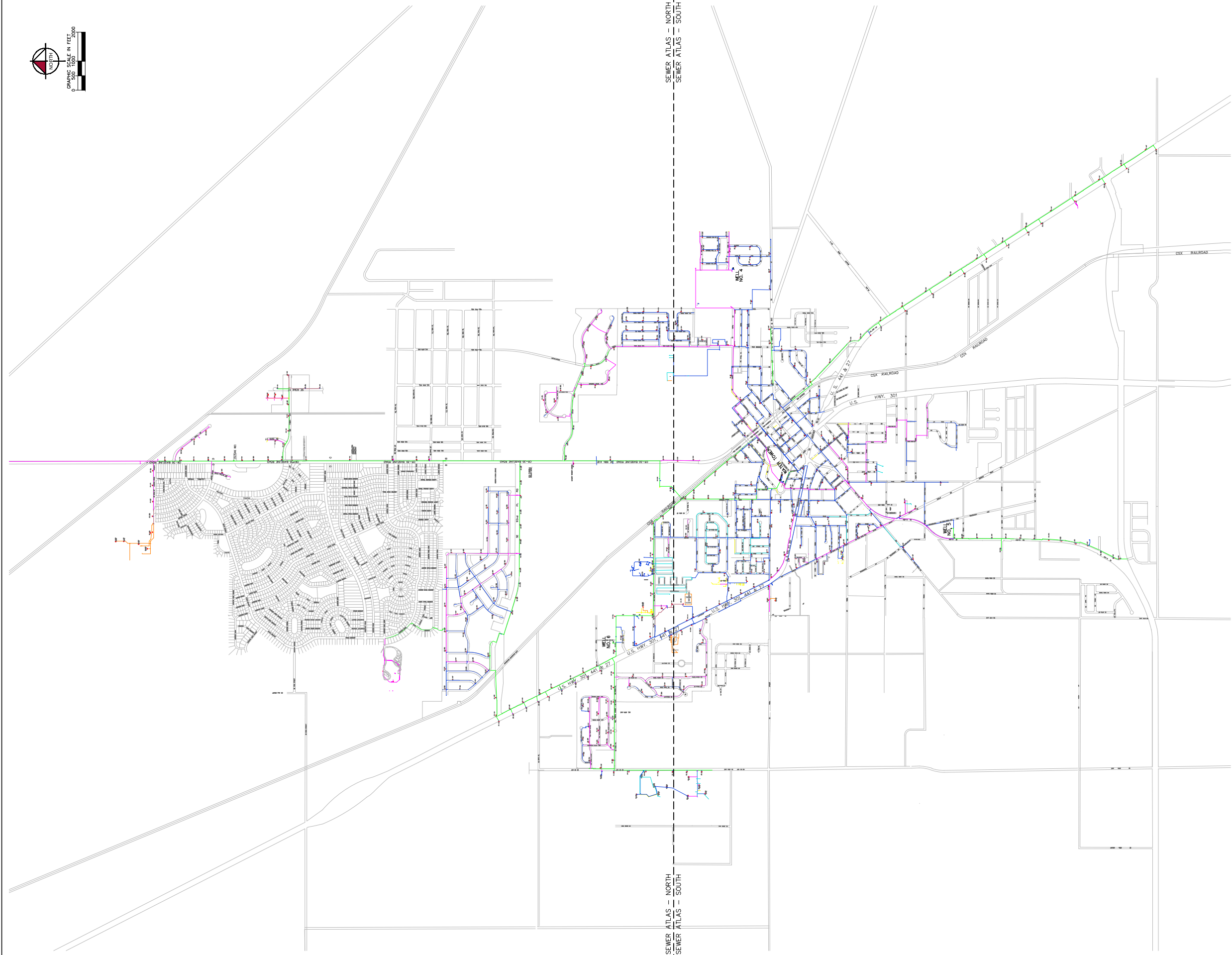
Based on the 2014/2015 MOR data, the City produced 0.762 MGD (annual average). The combined permitted capacity of both WTP's is 2.232 MGD (max day). The following is a summary of the City's water demands based on the 2014/2015 MOR data.

Average Day Demand:	0.762 MGD (529 gpm)
Maximum Day Demand*:	2.000 MGD (1,389 gpm)
Peak Hour Water Demand*:	3.048 MGD (2,117) gpm

*The max day demand peaking factor used to evaluate the system is 1.77 and was developed using MOR Data from May 2014 – April 2015. The outlier data points were eliminated from the max day peaking factor calculation. The Peak Hour Factor was calculated using the ten-state standards calculation and the surrounding population. The peaking factor was determined to be 3.3. A peaking factor of 4 was used in the model and corresponding analysis to be conservative.

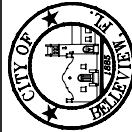
System Capacity Analysis

Typically, where multiple treatment facilities are connected to a single water system, the FDEP assumes the total system capacity is the sum of the individual treatment facility capacities. However, unless firm capacity is provided by uninstalled backup pumps, this method for determining the combined system capacity is very conservative because it assumes all connected treatment facilities have the largest pump out of service at the same time (firm capacity requirement). As an alternative, the FDEP allows combined system capacity to be determined under the premise that only the largest component of the consolidated system is out of service (as required by 62-555.320(15)(c)) provided hydraulic modeling confirms the system hydraulic standards are met. Since the sum of the City's individual WTP firm capacity is 0 MGD, the alternate combined system capacity method was used to determine the City's system capacity. Using this capacity determination method, the City's pumping capacity is limiting the combined system firm capacity to 1.234 MGD. See **Appendix F** for the system capacity calculations.



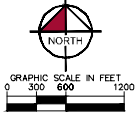
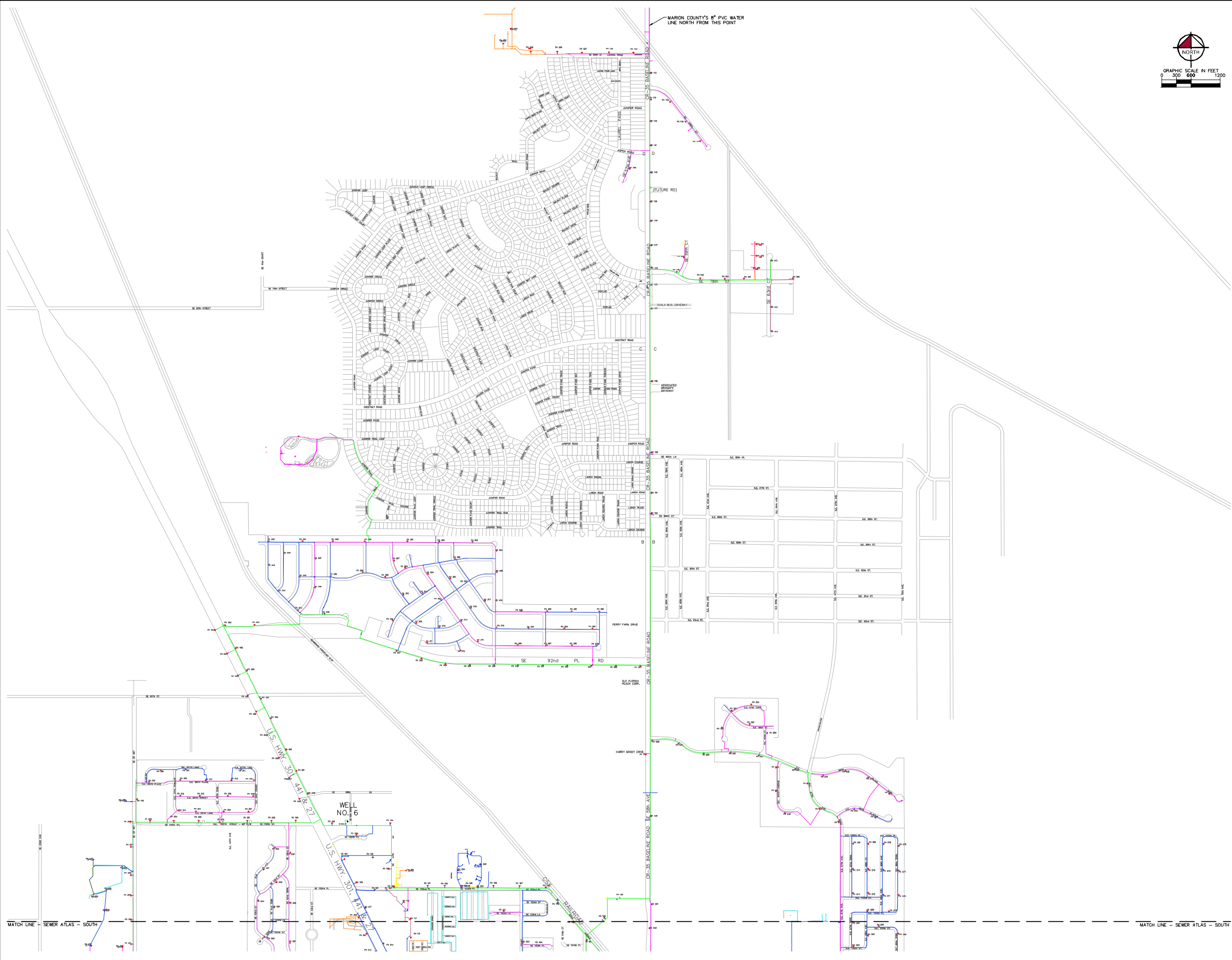
LEGEND

- 2" WATER MAIN
- 3" WATER MAIN
- 4" WATER MAIN
- 6" WATER MAIN
- 8" WATER MAIN
- 10" WATER MAIN
- 12" WATER MAIN
- FIRE HYDRANT



CITY OF BELLEVIEW
WATER ATLAS

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LEGEND

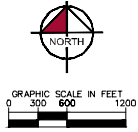
- 2" WATER MAIN (pink line)
- 3" WATER MAIN (green line)
- 4" WATER MAIN (blue line)
- 6" WATER MAIN (dark blue line)
- 8" WATER MAIN (light pink line)
- 10" WATER MAIN (light green line)
- 12" WATER MAIN (light blue line)
- FIRE HYDRANT (red dot)



CITY OF BELLEVUE
WATER ATLAS - NORTH

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LEGEND

- 2" WATER MAIN
- 3" WATER MAIN
- 4" WATER MAIN
- 6" WATER MAIN
- 8" WATER MAIN
- 10" WATER MAIN
- 12" WATER MAIN
- FIRE HYDRANT

CITY OF BELLEVIEW
WATER ATLAS - SOUTH



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WATER SYSTEM ANALYSIS AND METHODOLOGY

Introduction

This section provides an overview of the methodologies that were used to develop the hydraulic model and to evaluate the existing water distribution system.

Hydraulic Model Development

The software used for model development was Bentley WaterCAD V8i (SELECTseries 5). The existing model was developed in the following steps:

- The existing pipe network of the public water supply systems was determined by examining AutoCAD files provided by the City. Specific areas were confirmed with City staff and as-built information. The following assumptions were used in model development:
 - Hazen Williams Roughness Coefficient (C-Factor): 130
 - Pipe Elevations (Grade Elevation from WMD Contour Data):
 - All Pipes 3' Below Grade
 - All Hydrants 2' Above Grade
- The existing WTP capacity for the public water supply system was determined from FDEP permits, sanitary surveys, and MORs.
- The existing demand was determined using the billing data provided by the City and flow data provided from May 2014 – March 2015 MOR data.
- The existing demand distribution was determined using the billing data provided by the City.
 - The existing billing data provided the demands per active water service.
 - The demand for average water users (<40,000 Gallons per Month) was distributed evenly among the nodes in the model. High users were identified in the system and demand data was applied specifically to these corresponding nodes.
- The operating pressures were obtained by field visits and conversations with Public Works Staff. The following operating pressures were used in the model:
 - WTP-1 has a set operating range of 62-66 PSI at the plant. For the analysis, an operating pressure of 66 PSI was assumed. In addition, the flow control valve at the plant was set to the rated pumping capacity of the well, 940 GPM.
 - WTP-2 has a set operating range of 62-66 PSI at the plant. For the analysis, an operating pressure of 66 PSI was assumed. In addition, the flow control valve at the plant was set to the rated pumping capacity of the well, 950 GPM.
 - Both wells have the ability to supply the elevated storage tank (E-1) during low demand conditions, but operate in lead/lag methodology. The lead WTP is set to operate at a pressure of 62.0 PSI with a lag set to operate at 58.0 PSI. Both wells have a set “off” point of 66 PSI. City staff has indicated it is very rare for both wells to operate simultaneously.
 - E-1 was set to have the minimum operating pressure of 56.0 PSI (239.36 FT) and a maximum operating pressure of 70.5 PSI (272.86 FT). The initial operating elevation of the tank was set to 60.6 PSI (250 FT) to model the average operating conditions as shown in the fire flow

calibration analysis. The ground elevation of the tank is 110' and is included in the elevations provided.

Model Calibration

Before proposed improvements could be evaluated for the system, the hydraulic model was calibrated to ensure that it accurately reflected the conditions of the system in the field. The following steps were taken to calibrate the model:

- City staff conducted fire hydrant flow/pressure tests at 9 locations in the City and provided the flow data to Kimley-Horn. Each test performed consisted of three readings. First, the flow hydrant was completely closed and a static pressure reading was taken at the pressure hydrant. Second, the flow hydrant was opened fully. A flow reading was recorded at the flow hydrant and the residual pressure measurement was recorded at the pressure hydrant. Finally, the hydrant flow rate was reduced to approximately 50% full flow and the corresponding flow rate and residual pressure were recorded. See **Appendix A** for the hydrant flow/pressure results.
- The fire hydrant flow data was entered into the model and the elevated storage tank initial elevation values were adjusted to accurately reflect the pressure readings that were observed in the field. Model predictions that were within 10% of the actual collected data were considered acceptable. The data that fell out of that acceptable range was analyzed to determine the cause of the variation and supplemental data collection was performed to truth the model. Corrections to pipe diameters and/or hydrant flow test results (from repeated tests) were made to the locations falling outside of 10% actual values and the new model results were compared to actual values. This process was repeated until the model was calibrated to within 10% of measured field data.

Fire Flow Test and Calibration Results

The following tables show the model calibration results. Separate scenarios were modeled with the City's potable water system as it currently exists. The fire flow tests completed by City staff were assumed to be completed during average day demand conditions. The flow measured in the field was assigned to the corresponding hydrant in the model. The residual pressure from the test hydrant in the field was compared to that in the model. The elevated storage tank operating elevation was adjusted to simulate field test conditions. Each scenario was run twice, showing the results with either Well 5 or 6 serving the system. **Table 10** and **Table 11** below show the summary of the performance as currently configured.

Table 10: Fire Flow Calibration – WTP 1 (Well 5) Lead

Fire Flow Test No.	Field Verified Flow (GPM)	Field Verified Residual Pressure (PSI)	Elevated Storage Tank (E-1) Operating Elevation (FT)	Model Residual Pressure (PSI)	Pressure % Difference
1	1240	64	270	57.4	10.3%
2	1355	72	250	71.4	0.8%
3	1325	69	250	69	0.0%
4	1290	70	250	69.1	1.3%
5	1380	76	250	75.1	1.2%
6	1010	42	250	43.1	-2.6%
7	1300	65	250	59.9	7.8%
8	1280	58	250	60.4	-4.1%
9	952	24	250	48.7	-102.9%

Table 11: Fire Flow Calibration – WTP 2 (Well 6) Lead

Fire Flow Test No.	Field Verified Flow (GPM)	Field Verified Residual Pressure (PSI)	Elevated Storage Tank (E-1) Operating Elevation (FT)	Model Residual Pressure (PSI)	Pressure % Difference
1	1240	64	270	57.4	10.3%
2	1355	72	250	71.4	0.8%
3	1325	69	250	69	0.0%
4	1290	70	250	69.1	1.3%
5	1380	76	250	75.1	1.2%
6	1010	42	250	44.6	-6.2%
7	1300	65	250	58.8	9.5%
8	1280	58	250	43.9	24.3%
9	952	24	250	49.8	-107.5%

The results show that the existing system has the capability to match the field conditions with the Elevated Storage Tank operating at 250'. All scenarios within 10% accuracy were considered acceptable. See the analysis of the Scenarios exceeding the 10% threshold below.

Fire Flow Test 1:

The fire flow test completed in Scenario 1 was located at the north end of the City's service area, and was taken from two fire hydrants connected to the 12" water main along Baseline Road. The analysis is showing a difference of 10.3% most likely due to elevation differences between the model and field conditions. To compensate for this discrepancy, the elevated storage tank was set to its maximum operating condition.

Fire Flow Test 9:

The fire flow test completed in Scenario 9 was located at the southeast corner of the City's service area, and was taken from two fire hydrants connected to the 12" water main along N US Hwy 27. The analysis is showing a difference of approximately 110%. The model shows the area has adequate fire flow coverage and available fire flow. Further evaluation needs to be completed in this portion of the system. It is possible a valve along the 12" water main is partially closed, creating excessive headloss. This issue is also indicative of piping problems resulting in air in the water main.

Model Results

With the model properly calibrated, the system deficiencies could be analyzed for suitability and effectiveness. The approach for analyzing the overall potable system was to determine any system deficiencies under current operating conditions. Various scenarios were set up in the model to include average day demand, max day demand, max day plus fire flow, and peak hour demand.

Before identifying system deficiencies, system hydraulic standards were established. The following hydraulic standards were used to evaluate the hydraulic model for deficiencies:

- Minimum System Pressure with Fire Flow Demand: 20 PSI
- Minimum System Pressure with Peak Hour Demand: 35 PSI
- Maximum System Pressure: 80 PSI
- Typical Network Operating Pressure Range: 45-70 PSI
- Fire Flow Demand: 1,000 gpm (minimum)

Scenario 1: Average Day Demand

This scenario models the City's potable water system as it currently exists with present average day demand, 479.67 gpm. The results from this scenario are the base for which all other scenarios were compared. **Table 12** below is a summary of the performance as currently configured (under average day demands). The maximum pipe velocity shown in the model under average day conditions is 2.30 feet per second (fps).

<i>Table 12: Average Day Demand Water System Pressures</i>					
System	Operating Parameters	Operating Pressure (E-1)	Minimum Pressure	Maximum Pressure	Average Pressure
WTP-1 as Lead	64.0 PSI/244.84'	60.6 PSI/ 250.0'	52.4 PSI	86.2 PSI	73.1 PSI
WTP-2 as Lead	64.0 PSI/253.84'	60.6 PSI/ 250.0'	52.6 PSI	87.1 PSI	73.7 PSI

Scenario 2: Max Day Demand

This scenario models the City's potable water system as it currently exists with present max day demands of 1,256.74 gpm, based on the data in the most recent MOR's. The peaking factor applied to the average day demand is 1.77. **Table 13** below is a summary of the performance as currently configured (under max day demands). The maximum pipe velocity shown in the model under max day conditions is 2.63 fps.

<i>Table 13: Max Day Demand Water System Pressures</i>					
System	Operating Parameters	Operating Pressure (E-1)	Minimum Pressure	Maximum Pressure	Average Pressure
WTP-1 as Lead	64.0 PSI/244.84'	60.6 PSI/ 250.0'	52.0 PSI	85.7 PSI	72.7 PSI
WTP-2 as Lead	64.0 PSI/253.84'	60.6 PSI/ 250.0'	52.5 PSI	86.9 PSI	73.6 PSI

Scenario 3: Max Day Demand + Fire Flow

This scenario models the City's potable water system as it currently exists with present max day demands plus a required fire flow of 1,000 gpm at each hydrant. **Table 14** below is a summary of the performance as currently configured.

<i>Table 14: Max Day Demand Water System Pressures and Fire Flows</i>					
System	Operating Parameters	Operating Pressure (E-1)	Minimum System Pressure	Maximum System Pressure	Minimum Fire Flow
WTP-1 as Lead	64.0 PSI/244.84'	60.6 PSI/ 250.0'	52.0 PSI	85.7 PSI	937.75 GPM
WTP-2 as Lead	64.0 PSI/253.84'	60.6 PSI/ 250.0'	52.5 PSI	86.9 PSI	950.07 GPM

Scenario 4: Peak Hour Demand

This scenario models the City's potable water system as it currently exists with current peak hour demand of 1,918.66 gpm (PHF: 4). **Table 15** below is a summary of the performance as currently configured (under peak hour demands). The maximum pipe velocity shown in the model under average day conditions is 5.69 fps.

<i>Table 15: Peak Hour Demand Water System Pressures</i>					
System	Operating Parameters	Operating Pressure (E-1)	Minimum Pressure	Maximum Pressure	Average Pressure
WTP-1 as Lead	64.0 PSI/244.84'	60.6 PSI/ 250.0'	50.3 PSI	83.0 PSI	70.4 PSI
WTP-2 as Lead	64.0 PSI/253.84'	60.6 PSI/ 250.0'	51.5 PSI	85.7 PSI	72.5PSI

WATER SYSTEM DISCUSSION

Introduction

This section provides a discussion of the analysis results performed for the current operating conditions. There are two main criteria used to determine the improvements to the system: 1) Available System Flow and Pressure, 2) Average Available Fire Flow. The following includes a brief discussion of both of these elements as well as the specific areas of deficiency in need of improvements.

Analysis

The analysis of the system shown above shows that the available water system flow and pressure is adequate to serve the system under average day, max day, max day plus fire flow, and peak hour operating conditions. In addition, the maximum velocity does not exceed 5.69 fps under average day, max day, or peak hour operating conditions.

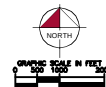
Average Available Fire Flow

The model results show the City's current available fire flow ranges from a low of 935 gpm to high of approximately 3,500 gpm. Areas with fire flow coverage less than 1,000 gpm were analyzed to determine system deficiencies. There are four (4) remaining hydrants that do not appear to produce the required fire flow of 1,000 gpm shown in **Table 16** below. The fire hydrants connected to water lines less than 6" were assumed to be blow-off hydrants, and were not included in the analysis above for minimum and average available fire flow. The blow-off hydrants identified within the system are shown in **Appendix E**.

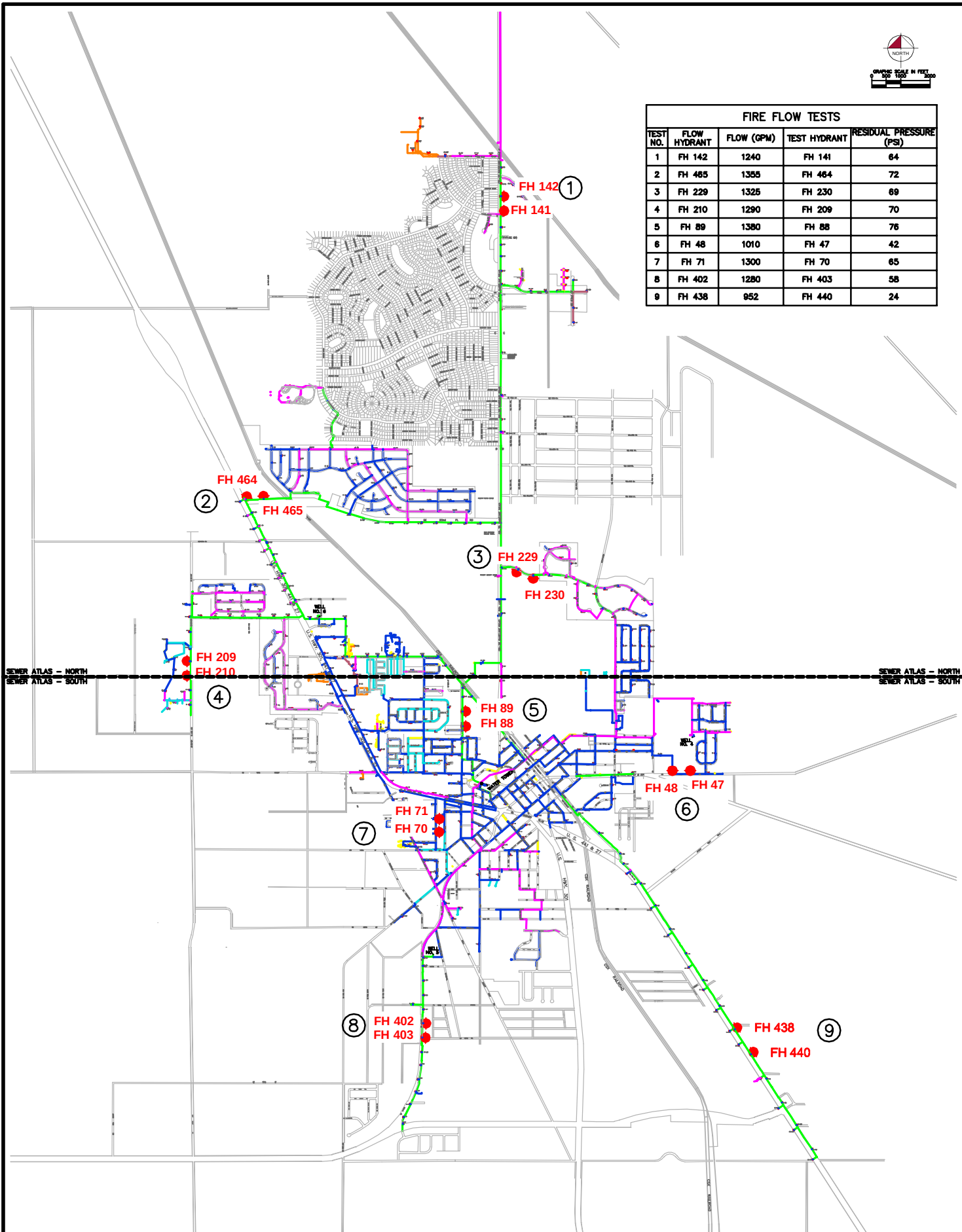
<i>Table E-1: Fire Hydrant Analysis</i>			
Actual Fire Hydrant	Model Hydrant Node	WTP-1 – Lead Available Fire Flow	WTP-2 – Lead Available Fire Flow
FH-6	H-407	937.75	950.07
FH-411	H-454	970.35	984.20
FH-97	H-397	994.65	999.51
FH-68	H-260	1,012.50	964.45

APPENDICES

APPENDIX A: Fire Hydrant Testing Map



FIRE FLOW TESTS				
TEST NO.	FLOW HYDRANT	FLOW (GPM)	TEST HYDRANT	RESIDUAL PRESSURE (PSI)
1	FH 142	1240	FH 141	64
2	FH 465	1355	FH 464	72
3	FH 229	1325	FH 230	69
4	FH 210	1290	FH 209	70
5	FH 89	1380	FH 88	76
6	FH 48	1010	FH 47	42
7	FH 71	1300	FH 70	65
8	FH 402	1280	FH 403	58
9	FH 438	952	FH 440	24



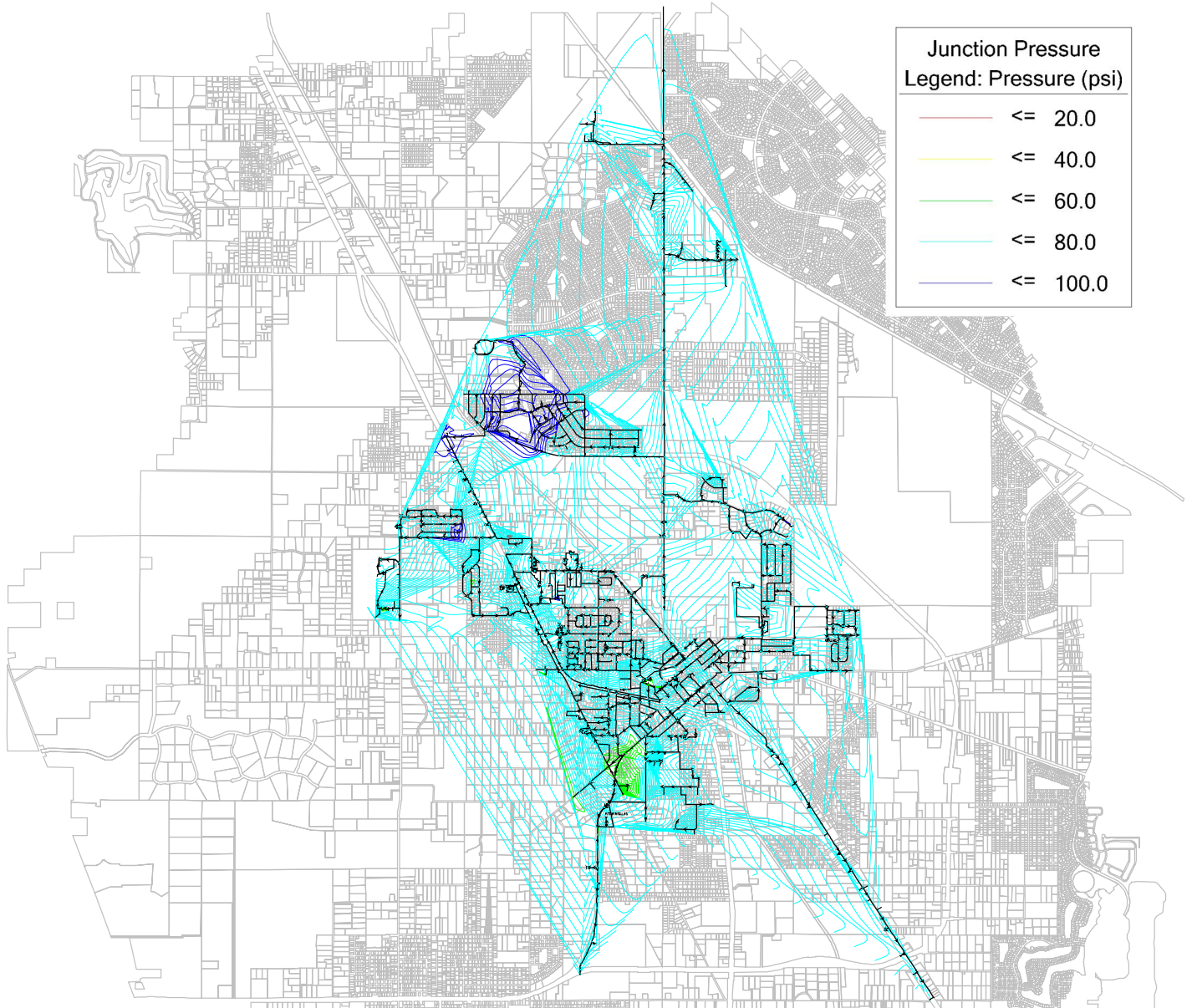
LEGEND

2" WATER MAIN	Orange	8" WATER MAIN	Pink
3" WATER MAIN	Yellow	10" WATER MAIN	Light Green
4" WATER MAIN	Light Green	12" WATER MAIN	Dark Green
6" WATER MAIN	Blue	FIRE HYDRANT	Red Dot

APPENDIX B: Hydraulic Model Summary and Results

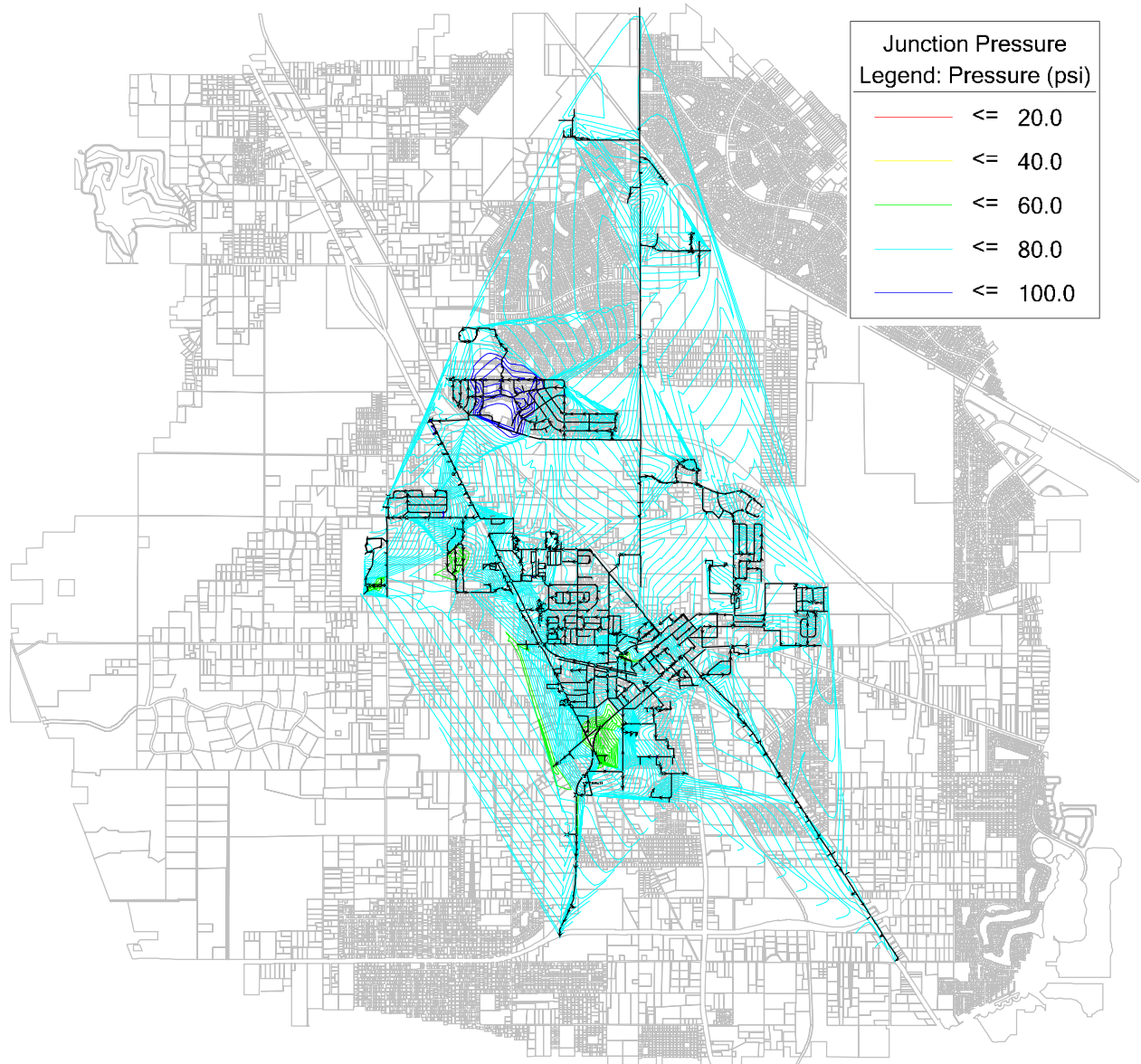
Well 5 – Lead Average Day Demand

Scenario: Average Daily Flow



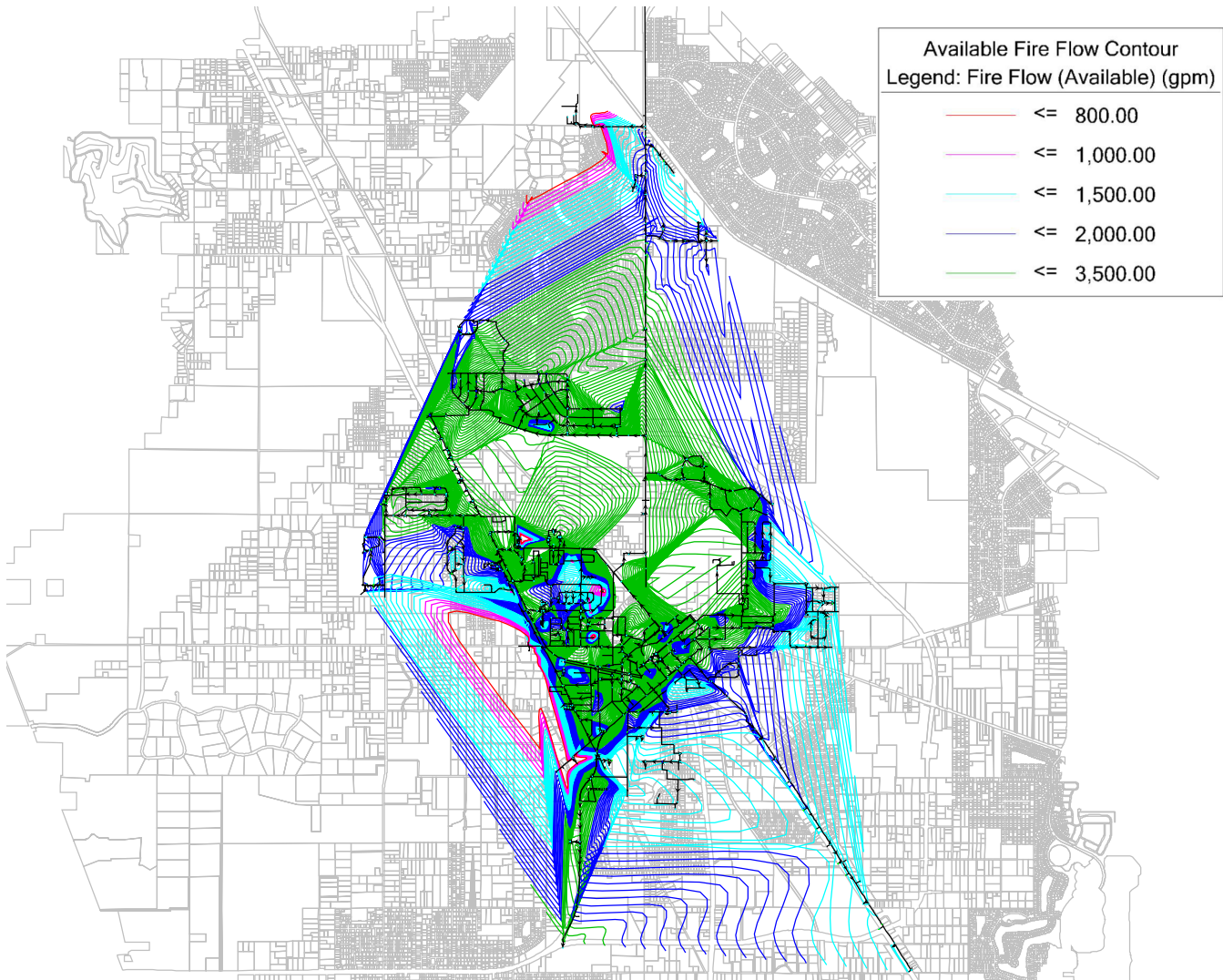
Well 5 – Lead Max Day Demand

Scenario: Max Daily Flow



Well 5 – Lead Max Day Demand + Fire Flow

Scenario: Max Daily Flow



Scenario: Max Daily Flow
Current Time Step: 0.000Hr
Fire Flow Node FlexTable: Fire Flow Report

Label	Zone	Fire Flow Iterations	Satisfies Fire Flow Constraints?	Fire Flow (Needed) (gpm)	Fire Flow (Available) (gpm)	Flow (Total Needed) (gpm)	Flow (Total Available) (gpm)	Pressure (Residual Lower Limit) (psi)	Pressure (Calculated Residual) (psi)	Pressure (Zone Lower Limit) (psi)	Pressure (Calculated Zone Lower Limit) (psi)	Junction w/ Minimum Pressure (Zone)	Pressure (System Lower Limit) (psi)	Pressure (Calculated System Lower Limit) (psi)	Junction w/ Minimum Pressure (System)	Is Fire Flow Run Balanced?
H-3	<None>	3	False	1,000.00	56.32	1,000.00	56.32	20.0	20.3	20.0	30.5	H-108	20.0	30.5	H-108	True
H-108	<None>	3	False	1,000.00	63.04	1,000.00	63.04	20.0	20.4	20.0	21.1	H-3	20.0	21.1	H-3	True
H-109	<None>	3	False	1,000.00	89.70	1,000.00	89.70	20.0	20.3	20.0	22.2	H-3	20.0	22.2	H-3	True
H-110	<None>	3	False	1,000.00	100.08	1,000.00	100.08	20.0	20.1	20.0	31.1	J-8715	20.0	31.1	J-8715	True
H-298	<None>	14	False	1,000.00	104.61	1,000.00	104.61	20.0	20.6	20.0	51.9	J-8855	20.0	51.9	J-8855	True
H-390	<None>	15	False	1,000.00	115.28	1,000.00	115.28	20.0	20.1	20.0	51.8	J-8855	20.0	51.8	J-8855	True
H-111	<None>	3	False	1,000.00	166.00	1,000.00	166.00	20.0	20.0	20.0	31.0	J-8476	20.0	31.0	J-8476	True
H-240	<None>	18	False	1,000.00	343.01	1,000.00	343.01	20.0	22.7	20.0	20.1	J-8979	20.0	20.1	J-8979	True
H-239	<None>	5	False	1,000.00	355.47	1,000.00	355.47	20.0	30.0	20.0	20.0	J-8979	20.0	20.0	J-8979	True
H-55	<None>	3	False	1,000.00	401.44	1,000.00	401.44	20.0	20.0	20.0	47.9	J-7208	20.0	47.9	J-7208	True
H-413	<None>	3	False	1,000.00	734.92	1,000.00	734.92	20.0	20.0	20.0	23.0	J-7887	20.0	23.0	J-7887	True
H-407	<None>	3	False	1,000.00	937.75	1,000.00	937.75	20.0	20.0	20.0	23.4	J-7323	20.0	23.4	J-7323	True
H-454	<None>	3	False	1,000.00	970.35	1,000.00	970.35	20.0	20.0	20.0	21.6	J-8221	20.0	21.6	J-8221	True
H-397	<None>	18	False	1,000.00	994.65	1,000.00	994.65	20.0	20.0	20.0	21.3	J-8670	20.0	21.3	J-8670	True
H-260	<None>	3	True	1,000.00	1,012.50	1,000.00	1,012.50	20.0	20.0	20.0	21.4	J-7966	20.0	21.4	J-7966	True
H-51	<None>	3	True	1,000.00	1,032.35	1,000.00	1,032.35	20.0	20.0	20.0	21.0	J-7228	20.0	21.0	J-7228	True
H-372	<None>	5	True	1,000.00	1,033.95	1,000.00	1,033.95	20.0	21.2	20.0	20.0	J-8799	20.0	20.0	J-8799	True
H-351	<None>	3	True	1,000.00	1,042.91	1,000.00	1,042.91	20.0	20.0	20.0	21.5	J-7757	20.0	21.5	J-7757	True
H-210	<None>	3	True	1,000.00	1,110.53	1,000.00	1,110.53	20.0	20.0	20.0	21.3	J-7739	20.0	21.3	J-7739	True
H-258	<None>	3	True	1,000.00	1,111.74	1,000.00	1,111.74	20.0	20.0	20.0	20.1	J-9021	20.0	20.1	J-9021	True
H-373	<None>	3	True	1,000.00	1,114.94	1,000.00	1,114.94	20.0	20.0	20.0	20.1	J-8975	20.0	20.1	J-8975	True
H-355	<None>	3	True	1,000.00	1,128.06	1,000.00	1,128.06	20.0	20.0	20.0	20.6	J-8909	20.0	20.6	J-8909	True
H-209	<None>	3	True	1,000.00	1,145.57	1,000.00	1,145.57	20.0	20.0	20.0	21.7	J-7713	20.0	21.7	J-7713	True
H-168	<None>	3	True	1,000.00	1,146.92	1,000.00	1,146.92	20.0	20.0	20.0	27.9	J-8823	20.0	27.9	J-8823	True
H-211	<None>	3	True	1,000.00	1,148.80	1,000.00	1,148.80	20.0	20.0	20.0	21.5	J-7598	20.0	21.5	J-7598	True
H-31	<None>	5	True	1,000.00	1,157.85	1,000.00	1,157.85	20.0	24.4	20.0	20.0	J-8799	20.0	20.0	J-8799	True
H-195	<None>	20	True	1,000.00	1,183.41	1,000.00	1,183.41	20.0	20.3	20.0	20.0	J-9023	20.0	20.0	J-9023	True
FH - 47	<None>	3	True	1,000.00	1,184.80	1,000.00	1,184.80	20.0	20.0	20.0	25.4	J-7875	20.0	25.4	J-7875	True
H-257	<None>	5	True	1,000.00	1,188.62	1,000.00	1,188.62	20.0	21.2	20.0	20.0	J-8855	20.0	20.0	J-8855	True
FH - 48	<None>	3	True	1,000.00	1,213.40	1,000.00	1,213.40	20.0	20.0	20.0	25.6	J-7837	20.0	25.6	J-7837	True
H-360	<None>	3	True	1,000.00	1,221.44	1,000.00	1,221.44	20.0	20.0	20.0	21.5	J-7862	20.0	21.5	J-7862	True
H-112	<None>	20	True	1,000.00	1,223.78	1,000.00	1,223.78	20.0	20.3	20.0	20.0	H-111	20.0	20.0	H-111	True
H-213	<None>	3	True	1,000.00	1,235.54	1,000.00	1,235.54	20.0	20.0	20.0	21.7	J-7849	20.0	21.7	J-7849	True
H-259	<None>	5	True	1,000.00	1,245.39	1,000.00	1,245.39	20.0	26.2	20.0	20.0	J-8855	20.0	20.0	J-8855	True
H-391	<None>	3	True	1,000.00	1,252.07	1,000.00	1,252.07	20.0	20.0	20.0	23.9	H-390	20.0	23.9	H-390	True
H-38	<None>	3	True	1,000.00	1,255.61	1,000.00	1,255.61	20.0	20.0	20.0	25.4	J-8669	20.0	25.4	J-8669	True
H-400	<None>	3	True	1,000.00	1,264.77	1,000.00	1,264.77	20.0	20.0	20.0	21.4	J-8182	20.0	21.4	J-8182	True
FH - 440	<None>	3	True	1,000.00	1,265.97	1,000.00	1,265.97	20.0	20.0	20.0	29.9	H-314	20.0	29.9	H-314	True
H-113	<None>	3	True	1,000.00	1,270.20	1,000.00	1,270.20	20.0	20.0	20.0	21.0	H-111	20.0	21.0	H-111	True
H-265	<None>	3	True	1,000.00	1,297.68	1,000.00	1,297.68	20.0	20.0	20.0	22.2	J-7201	20.0	22.2	J-7201	True
H-122	<None>	3	True	1,000.00	1,306.29	1,000.00	1,306.29	20.0	20.0	20.0	22.4	J-9035	20.0	22.4	J-9035	True
H-23	<None>	3	True	1,000.00	1,311.78	1,000.00	1,311.78	20.0	20.0	20.0	21.9	J-7986	20.0	21.9	J-7986	True
H-212	<None>	3	True	1,000.00	1,318.53	1,000.00	1,318.53	20.0	20.0	20.0	21.7	J-7675	20.0	21.7	J-7675	True
H-69	<None>	3	True	1,000.00	1,320.51	1,000.00	1,320.51	20.0	20.0	20.0	21.0	J-8524	20.0	21.0	J-8524	True
H-306	<None>	3	True	1,000.00	1,323.39	1,000.00	1,323.39	20.0	20.0	20.0	21.1	H-314	20.0	21.1	H-314	True
H-314	<None>	3	True	1,000.00	1,324.19	1,000.00	1,324.19	20.0	20.0	20.0	21.2	H-475	20.0	21.2	H-475	True
H-52	<None>	3	True	1,000.00	1,329.40	1,000.00	1,329.40	20.0	20.0	20.0	21.9	J-8036	20.0	21.9	J-8036	True
H-8	<None>	3	True	1,000.00	1,330.32	1,000.00	1,330.32	20.0	20.0	20.0	21.8	J-7703	20.0	21.8	J-7703	True
H-475	<None>	3	True	1,000.00	1,331.89	1,000.00	1,331.89	20.0	20.0	20.0	20.7	H-314	20.0	20.7	H-314	True
FH - 438	<None>	3	True	1,000.00	1,332.31	1,000.00	1,332.31	20.0	20.0	20.0	28.0	H-314	20.0	28.0	H-314	True
H-453	<None>	3	True	1,000.00	1,334.12	1,000.00	1,334.12	20.0	20.0	20.0	21.2	H-454	20.0	21.2	H-454	True
H-316	<None>	20	True	1,000.00	1,339.70	1,000.00	1,339.70	20.0	20.2	20.0	20.0	H-314	20.0	20.0	H-314	True
H-459	<None>	3	True	1,000.00	1,349.18	1,000.00	1,349.18	20.0	20.0	20.0	21.2	H-314	20.0	21.2	H-314	True
H-474	<None>	3	True	1,000.00	1,361.54	1,000.00	1,361.54	20.0	20.0	20.0	20.6	H-314	20.0	20.6	H-314	True
H-460	<None>	3	True	1,000.00	1,385.53	1,000.00	1,385.53	20.0	20.0	20.0	21.3	H-314	20.0	21.3	H-314	True
H-114	<None>	3	True	1,000.00	1,388.94	1,000.00	1,388.94	20.0	20.0	20.0	20.8	H-111	20.0	20.8	H-111	True
H-473	<None>	5	True	1,000.00	1,401.26	1,000.00	1,401.26	20.0	21.4	20.0	20.0	H-314	20.0	20.0	H-314	True
H-221	<None>	3	True	1,000.00	1,408.53	1,000.00	1,408.53	20.0	20.0	20.0	21.7	J-8255	20.0	21.7	J-8255	True
H-359	<None>	3	True	1,000.00	1,428.90	1,000.00	1,428.90	20.0	20.0	20.0	21.9	J-7931	20.0	21.9	J-7931	True
H-368	<None>	4	True	1,000.00	1,431.73	1,000.00	1,431.73	20.0	20.0	20.0	20.7	J-8975	20.0	20.7	J-8975	True
H-121	<None>	20	True	1,000.00	1,437.30	1,000.00	1,437.30	20.0	20.5	20.0	20.0	H-122	20.0	20.0	H-122	True
H-424	<None>	3	True	1,000.00	1,437.68	1,000.00	1,437.68	20.0	20.0	20.0	21.8	J-8002	20.0	21.8	J-8002	True
H-307	<None>	5	True	1,000.00	1,452.74	1,000.00	1,452.74	20.0	20.9	20.0	20.0	H-314	20.0	20.0	H-314	True

H-27	<None>	4	True	1,000.00	1,453.37	1,000.00	1,453.37	20.0	20.0	20.0	21.7	J-7658	20.0	21.7	J-7658	True
H-421	<None>	3	True	1,000.00	1,455.63	1,000.00	1,455.63	20.0	20.0	20.0	22.0	J-8004	20.0	22.0	J-8004	True
H-40	<None>	5	True	1,000.00	1,461.33	1,000.00	1,461.33	20.0	26.3	20.0	20.0	H-390	20.0	20.0	H-390	True
H-205	<None>	3	True	1,000.00	1,467.96	1,000.00	1,467.96	20.0	20.0	20.0	22.2	J-8041	20.0	22.2	J-8041	True
H-208	<None>	3	True	1,000.00	1,473.03	1,000.00	1,473.03	20.0	20.0	20.0	21.1	H-212	20.0	21.1	H-212	True
H-308	<None>	5	True	1,000.00	1,473.54	1,000.00	1,473.54	20.0	22.6	20.0	20.0	H-314	20.0	20.0	H-314	True
H-204	<None>	3	True	1,000.00	1,474.88	1,000.00	1,474.88	20.0	20.0	20.0	21.9	J-7520	20.0	21.9	J-7520	True
H-95	<None>	3	True	1,000.00	1,492.11	1,000.00	1,492.11	20.0	20.0	20.0	22.2	J-8010	20.0	22.2	J-8010	True
H-118	<None>	3	True	1,000.00	1,497.80	1,000.00	1,497.80	20.0	20.0	20.0	23.1	J-8360	20.0	23.1	J-8360	True
H-1	<None>	3	True	1,000.00	1,505.81	1,000.00	1,505.81	20.0	20.0	20.0	21.9	J-7841	20.0	21.9	J-7841	True
H-461	<None>	5	True	1,000.00	1,506.03	1,000.00	1,506.03	20.0	23.0	20.0	20.0	H-314	20.0	20.0	H-314	True
H-150	<None>	3	True	1,000.00	1,506.32	1,000.00	1,506.32	20.0	20.0	20.0	29.3	J-8823	20.0	29.3	J-8823	True
H-313	<None>	5	True	1,000.00	1,509.37	1,000.00	1,509.37	20.0	25.5	20.0	20.0	H-314	20.0	20.0	H-314	True
H-133	<None>	3	True	1,000.00	1,512.54	1,000.00	1,512.54	20.0	20.0	20.0	26.1	J-8646	20.0	26.1	J-8646	True
H-201	<None>	3	True	1,000.00	1,527.59	1,000.00	1,527.59	20.0	20.0	20.0	22.1	J-8048	20.0	22.1	J-8048	True
H-369	<None>	4	True	1,000.00	1,528.94	1,000.00	1,528.94	20.0	20.0	20.0	21.9	J-7721	20.0	21.9	J-7721	True
H-203	<None>	3	True	1,000.00	1,534.32	1,000.00	1,534.32	20.0	20.0	20.0	21.0	H-204	20.0	21.0	H-204	True
H-202	<None>	3	True	1,000.00	1,538.30	1,000.00	1,538.30	20.0	20.0	20.0	21.9	J-7798	20.0	21.9	J-7798	True
H-115	<None>	20	True	1,000.00	1,539.20	1,000.00	1,539.20	20.0	20.4	20.0	20.0	H-111	20.0	20.0	H-111	True
H-462	<None>	5	True	1,000.00	1,541.25	1,000.00	1,541.25	20.0	22.9	20.0	20.0	H-314	20.0	20.0	H-314	True
H-206	<None>	3	True	1,000.00	1,541.35	1,000.00	1,541.35	20.0	20.0	20.0	21.4	H-204	20.0	21.4	H-204	True
H-486	<None>	3	True	1,000.00	1,541.71	1,000.00	1,541.71	20.0	20.0	20.0	31.8	H-314	20.0	31.8	H-314	True
H-207	<None>	3	True	1,000.00	1,550.45	1,000.00	1,550.45	20.0	20.0	20.0	21.7	J-7431	20.0	21.7	J-7431	True
H-235	<None>	3	True	1,000.00	1,553.17	1,000.00	1,553.17	20.0	20.0	20.0	22.6	J-8077	20.0	22.6	J-8077	True
H-471	<None>	5	True	1,000.00	1,553.81	1,000.00	1,553.81	20.0	23.0	20.0	20.0	H-314	20.0	20.0	H-314	True
259	<None>	20	True	1,000.00	1,559.14	1,000.00	1,559.14	20.0	20.4	20.0	20.0	J-9116	20.0	20.0	J-9116	True
H-323	<None>	3	True	1,000.00	1,567.32	1,000.00	1,567.32	20.0	20.0	20.0	29.9	J-8084	20.0	29.9	J-8084	True
H-90	<None>	3	True	1,000.00	1,568.22	1,000.00	1,568.22	20.0	20.0	20.0	22.4	J-8027	20.0	22.4	J-8027	True
H-367	<None>	4	True	1,000.00	1,570.70	1,000.00	1,570.70	20.0	20.0	20.0	22.1	J-7946	20.0	22.1	J-7946	True
H-194	<None>	20	True	1,000.00	1,571.50	1,000.00	1,571.50	20.0	20.6	20.0	20.0	J-9023	20.0	20.0	J-9023	True
H-21	<None>	3	True	1,000.00	1,575.63	1,000.00	1,575.63	20.0	20.0	20.0	40.7	J-9126	20.0	40.7	J-9126	True
H-485	<None>	4	True	1,000.00	1,578.99	1,000.00	1,578.99	20.0	20.0	20.0	24.1	J-8708	20.0	24.1	J-8708	True
H-309	<None>	5	True	1,000.00	1,582.78	1,000.00	1,582.78	20.0	20.7	20.0	20.0	H-314	20.0	20.0	H-314	True
H-18	<None>	3	True	1,000.00	1,583.51	1,000.00	1,583.51	20.0	20.0	20.0	21.8	J-7515	20.0	21.8	J-7515	True
H-366	<None>	4	True	1,000.00	1,584.30	1,000.00	1,584.30	20.0	20.0	20.0	21.5	J-8975	20.0	21.5	J-8975	True
H-84	<None>	3	True	1,000.00	1,594.07	1,000.00	1,594.07	20.0	20.0	20.0	22.2	J-8000	20.0	22.2	J-8000	True
H-124	<None>	3	True	1,000.00	1,598.51	1,000.00	1,598.51	20.0	20.0	20.0	22.8	J-8306	20.0	22.8	J-8306	True
H-26	<None>	4	True	1,000.00	1,599.13	1,000.00	1,599.13	20.0	20.0	20.0	22.3	J-8100	20.0	22.3	J-8100	True
H-469	<None>	5	True	1,000.00	1,604.20	1,000.00	1,604.20	20.0	23.3	20.0	20.0	H-314	20.0	20.0	H-314	True
H-337	<None>	3	True	1,000.00	1,607.28	1,000.00	1,607.28	20.0	20.0	20.0	22.0	J-7729	20.0	22.0	J-7729	True
H-229	<None>	3	True	1,000.00	1,609.96	1,000.00	1,609.96	20.0	20.0	20.0	22.1	J-7378	20.0	22.1	J-7378	True
H-117	<None>	4	True	1,000.00	1,614.83	1,000.00	1,614.83	20.0	20.0	20.0	26.2	H-118	20.0	26.2	H-118	True
H-137	<None>	4	True	1,000.00	1,636.28	1,000.00	1,636.28	20.0	20.0	20.0	22.7	J-8194	20.0	22.7	J-8194	True
H-483	<None>	4	True	1,000.00	1,638.09	1,000.00	1,638.09	20.0	20.0	20.0	23.4	J-8335	20.0	23.4	J-8335	True
H-215	<None>	3	True	1,000.00	1,638.82	1,000.00	1,638.82	20.0	20.0	20.0	22.0	J-7682	20.0	22.0	J-7682	True
FH - 142	<None>	4	True	1,000.00	1,641.65	1,000.00	1,641.65	20.0	20.0	20.0	25.5	H-117	20.0	25.5	H-117	True
H-131	<None>	4	True	1,000.00	1,646.61	1,000.00	1,646.61	20.0	20.0	20.0	21.5	J-8644	20.0	21.5	J-8644	True
H-463	<None>	5	True	1,000.00	1,647.01	1,000.00	1,647.01	20.0	20.6	20.0	20.0	H-314	20.0	20.0	H-314	True
H-468	<None>	5	True	1,000.00	1,654.78	1,000.00	1,654.78	20.0	20.8	20.0	20.0	H-314	20.0	20.0	H-314	True
H-20	<None>	3	True	1,000.00	1,656.57	1,000.00	1,656.57	20.0	20.0	20.0	23.0	J-8264	20.0	23.0	J-8264	True
H-28	<None>	4	True	1,000.00	1,657.89	1,000.00	1,657.89	20.0	20.0	20.0	21.3	H-27	20.0	21.3	H-27	True
H-74	<None>	3	True	1,000.00	1,658.45	1,000.00	1,658.45	20.0	20.0	20.0	21.5	J-8989	20.0	21.5	J-8989	True
H-324	<None>	4	True	1,000.00	1,664.39	1,000.00	1,664.39	20.0	20.0	20.0	25.3	H-325	20.0	25.3	H-325	True
H-50	<None>	3	True	1,000.00	1,672.80	1,000.00	1,672.80	20.0	20.0	20.0	22.1	J-7845	20.0	22.1	J-7845	True
H-464	<None>	3	True	1,000.00	1,675.06	1,000.00	1,675.06	20.0	20.0	20.0	21.6	H-314	20.0	21.6	H-314	True
H-325	<None>	4	True	1,000.00	1,685.08	1,000.00	1,685.08	20.0	20.0	20.0	21.9	J-8708	20.0	21.9	J-8708	True
H-136	<None>	4	True	1,000.00	1,687.14	1,000.00	1,687.14	20.0	20.0	20.0	22.5	H-137	20.0	22.5	H-137	True
H-329	<None>	3	True	1,000.00	1,696.28	1,000.00	1,696.28	20.0	20.0	20.0	22.1	J-7551	20.0	22.1	J-7551	True
H-361	<None>	4	True	1,000.00	1,696.64	1,000.00	1,696.64	20.0	20.0	20.0	22.4	J-7646	20.0	22.4	J-7646	True
H-11	<None>	3	True	1,000.00	1,699.91	1,000.00	1,699.91	20.0	20.0	20.0	24.9	J-7161	20.0	24.9	J-7161	True
H-320	<None>	4	True	1,000.00	1,700.44	1,000.00	1,700.44	20.0	20.0	20.0	22.0	J-7615	20.0	22.0	J-7615	True
H-116	<None>	4	True	1,000.00	1,704.08	1,000.00	1,704.08	20.0	20.0	20.0	20.7	H-111	20.0	20.7	H-111	True
H-426	<None>	3	True	1,000.00	1,705.58	1,000.00	1,705.58	20.0	20.0	20.0	21.3	H-52	20.0	21.3	H-52	True
H-470	<None>	5	True	1,000.00	1,707.62	1,000.00	1,707.62	20.0	21.3	20.0	20.0	H-314	20.0	20.0	H-314	True
H-365	<None>	6	True	1,000.00	1,711.07	1,000.00	1,711.07	20.0	20.4	20.0	20.0	H-27	20.0	20.0	H-27	True
H-321	<None>	6	True	1,000.00	1,717.14	1,000.00	1,717.14	20.0	21.8	20.0	20.0	J-8708	20.0	20.0	J-8708	True
H-135	<None>	4	True	1,000.00	1,720.90	1,000.00	1,720.90	20.0	20.0	20.0	22.4	J-9026	20.0	22.4	J-9026	True
H-336	<None>	3	True	1,000.00	1,723.44	1,000.00	1,723.44	20.0	20.0	20.0	22.3	J-7892	20.0	22.3	J-7892	True
H-219	<None>	3	True	1,000.00	1,723.81	1,000.00	1,723.81	20.0	20.0	20.0	21.9	J-8144	20.0	21.9	J-8144	True
H-326	<None>	3	True	1,000.00	1,725.23	1,000.00	1,725.23	20.0	20.0	20.0	22.2	J-7697	20.0	22.2	J-7697	True
H-132	<None>	4	True	1,000.00	1,726.90	1,000.00	1,726.90	20.0	20.0	20.0	22.1	J-8644	20.0	22.1	J-8644	True
H-382	<None>	3	True	1,000.00	1,729.44	1,000.00	1,729.44	20.0	20.0	20.0	22.8	J-7829	20.0	22.8	J-7829	True
H-312	<None>	4	True	1,000.00	1,737.72	1,000.00	1,737.72	20.0	20.0	20.0	21.2	H-314	20.0	21.2	H-314	True
H-465	<None>	4	True	1,000.00	1,737.88	1,000.00	1,737.88	20.0	20.0	20.0	21.5	H-314	20.0	21.5	H-314	True
FH - 141	<None>	4	True													

	<None>	3	True	1,000.00	1,780.54	1,000.00	1,780.54	20.0	20.0	20.0	23.1	J-9155	20.0	23.1	J-9155	True
H-127	<None>	21	True	1,000.00	1,796.66	1,000.00	1,796.66	20.0	20.4	20.0	20.0	J-8879	20.0	20.0	J-8879	True
H-349	<None>	3	True	1,000.00	1,807.21	1,000.00	1,807.21	20.0	20.0	20.0	50.2	J-8855	20.0	50.2	J-8855	True
H-134	<None>	6	True	1,000.00	1,812.23	1,000.00	1,812.23	20.0	23.2	20.0	20.0	H-136	20.0	20.0	H-136	True
H-187	<None>	3	True	1,000.00	1,816.56	1,000.00	1,816.56	20.0	20.0	20.0	21.7	J-7166	20.0	21.7	J-7166	True
H-466	<None>	4	True	1,000.00	1,816.77	1,000.00	1,816.77	20.0	20.0	20.0	21.5	H-311	20.0	21.5	H-311	True
H-19	<None>	3	True	1,000.00	1,818.94	1,000.00	1,818.94	20.0	20.0	20.0	21.0	J-8852	20.0	21.0	J-8852	True
H-467	<None>	4	True	1,000.00	1,820.01	1,000.00	1,820.01	20.0	20.0	20.0	20.1	H-314	20.0	20.1	H-314	True
H-311	<None>	4	True	1,000.00	1,821.91	1,000.00	1,821.91	20.0	20.0	20.0	22.2	J-7483	20.0	22.2	J-7483	True
H-104	<None>	6	True	1,000.00	1,832.20	1,000.00	1,832.20	20.0	24.7	20.0	20.0	H-117	20.0	20.0	H-117	True
H-267	<None>	4	True	1,000.00	1,840.60	1,000.00	1,840.60	20.0	20.0	20.0	21.1	J-7436	20.0	21.1	J-7436	True
H-41	<None>	5	True	1,000.00	1,859.71	1,000.00	1,859.71	20.0	20.9	20.0	20.0	J-8921	20.0	20.0	J-8921	True
H-130	<None>	4	True	1,000.00	1,863.91	1,000.00	1,863.91	20.0	20.0	20.0	20.0	H-136	20.0	20.0	H-136	True
H-482	<None>	4	True	1,000.00	1,874.35	1,000.00	1,874.35	20.0	20.0	20.0	22.5	J-7600	20.0	22.5	J-7600	True
H-106	<None>	6	True	1,000.00	1,878.06	1,000.00	1,878.06	20.0	29.1	20.0	20.0	H-117	20.0	20.0	H-117	True
H-129	<None>	4	True	1,000.00	1,881.74	1,000.00	1,881.74	20.0	20.0	20.0	20.5	H-136	20.0	20.5	H-136	True
H-338	<None>	4	True	1,000.00	1,897.48	1,000.00	1,897.48	20.0	20.0	20.0	22.8	J-7971	20.0	22.8	J-7971	True
H-420	<None>	4	True	1,000.00	1,902.08	1,000.00	1,902.08	20.0	20.0	20.0	23.9	J-9125	20.0	23.9	J-9125	True
H-310	<None>	4	True	1,000.00	1,905.21	1,000.00	1,905.21	20.0	20.0	20.0	21.0	H-311	20.0	21.0	H-311	True
H-105	<None>	6	True	1,000.00	1,910.38	1,000.00	1,910.38	20.0	27.9	20.0	20.0	H-117	20.0	20.0	H-117	True
H-268	<None>	22	True	1,000.00	1,911.91	1,000.00	1,911.91	20.0	20.1	20.0	20.0	H-267	20.0	20.0	H-267	True
H-91	<None>	4	True	1,000.00	1,914.84	1,000.00	1,914.84	20.0	20.0	20.0	22.5	J-7864	20.0	22.5	J-7864	True
H-25	<None>	4	True	1,000.00	1,925.42	1,000.00	1,925.42	20.0	20.0	20.0	20.9	H-325	20.0	20.9	H-325	True
H-57	<None>	13	True	1,000.00	1,926.21	1,000.00	1,926.21	20.0	20.0	20.0	22.6	J-8896	20.0	22.6	J-8896	True
H-364	<None>	22	True	1,000.00	1,926.66	1,000.00	1,926.66	20.0	20.1	20.0	20.0	H-325	20.0	20.0	H-325	True
H-45	<None>	3	True	1,000.00	1,926.92	1,000.00	1,926.92	20.0	20.0	20.0	22.2	J-7917	20.0	22.2	J-7917	True
H-42	<None>	3	True	1,000.00	1,931.41	1,000.00	1,931.41	20.0	20.0	20.0	22.4	J-7711	20.0	22.4	J-7711	True
H-393	<None>	3	True	1,000.00	1,932.96	1,000.00	1,932.96	20.0	20.0	20.0	22.4	J-7751	20.0	22.4	J-7751	True
H-128	<None>	6	True	1,000.00	1,933.51	1,000.00	1,933.51	20.0	21.6	20.0	20.0	H-136	20.0	20.0	H-136	True
H-437	<None>	4	True	1,000.00	1,936.91	1,000.00	1,936.91	20.0	20.0	20.0	29.2	J-7928	20.0	29.2	J-7928	True
H-266	<None>	6	True	1,000.00	1,937.71	1,000.00	1,937.71	20.0	21.0	20.0	20.0	H-267	20.0	20.0	H-267	True
H-126	<None>	4	True	1,000.00	1,945.77	1,000.00	1,945.77	20.0	20.0	20.0	22.1	H-117	20.0	22.1	H-117	True
H-35	<None>	6	True	1,000.00	1,950.97	1,000.00	1,950.97	20.0	20.5	20.0	20.0	H-27	20.0	20.0	H-27	True
H-191	<None>	4	True	1,000.00	1,952.50	1,000.00	1,952.50	20.0	20.0	20.0	22.7	J-8018	20.0	22.7	J-8018	True
H-193	<None>	4	True	1,000.00	1,953.45	1,000.00	1,953.45	20.0	20.0	20.0	22.8	J-8014	20.0	22.8	J-8014	True
H-125	<None>	6	True	1,000.00	1,953.52	1,000.00	1,953.52	20.0	24.6	20.0	20.0	H-117	20.0	20.0	H-117	True
H-273	<None>	4	True	1,000.00	1,957.02	1,000.00	1,957.02	20.0	20.0	20.0	22.4	J-7686	20.0	22.4	J-7686	True
H-162	<None>	4	True	1,000.00	1,958.60	1,000.00	1,958.60	20.0	20.0	20.0	22.4	J-7213	20.0	22.4	J-7213	True
H-82	<None>	4	True	1,000.00	1,961.68	1,000.00	1,961.68	20.0	20.0	20.0	22.2	H-420	20.0	22.2	H-420	True
H-217	<None>	4	True	1,000.00	1,973.14	1,000.00	1,973.14	20.0	20.0	20.0	22.4	J-7904	20.0	22.4	J-7904	True
H-101	<None>	6	True	1,000.00	1,975.18	1,000.00	1,975.18	20.0	22.5	20.0	20.0	H-136	20.0	20.0	H-136	True
H-88	<None>	4	True	1,000.00	1,983.30	1,000.00	1,983.30	20.0	20.0	20.0	22.9	J-8020	20.0	22.9	J-8020	True
H-22	<None>	3	True	1,000.00	1,984.55	1,000.00	1,984.55	20.0	20.0	20.0	25.7	J-8488	20.0	25.7	J-8488	True
H-378	<None>	6	True	1,000.00	1,991.39	1,000.00	1,991.39	20.0	28.0	20.0	20.0	H-27	20.0	20.0	H-27	True
H-287	<None>	4	True	1,000.00	1,994.24	1,000.00	1,994.24	20.0	20.0	20.0	22.4	J-7481	20.0	22.4	J-7481	True
FH 210	<None>	4	True	1,000.00	1,995.08	1,000.00	1,995.08	20.0	20.0	20.0	20.1	H-325	20.0	20.1	H-325	True
H-43	<None>	3	True	1,000.00	2,004.56	1,000.00	2,004.56	20.0	20.0	20.0	22.5	J-7764	20.0	22.5	J-7764	True
H-272	<None>	4	True	1,000.00	2,005.12	1,000.00	2,005.12	20.0	20.0	20.0	21.7	J-7207	20.0	21.7	J-7207	True
H-171	<None>	4	True	1,000.00	2,015.67	1,000.00	2,015.67	20.0	20.0	20.0	22.5	J-7801	20.0	22.5	J-7801	True
H-452	<None>	4	True	1,000.00	2,028.45	1,000.00	2,028.45	20.0	20.0	20.0	23.2	J-7997	20.0	23.2	J-7997	True
H-61	<None>	14	True	1,000.00	2,029.77	1,000.00	2,029.77	20.0	20.0	20.0	24.5	J-8857	20.0	24.5	J-8857	True
H-102	<None>	22	True	1,000.00	2,029.78	1,000.00	2,029.78	20.0	20.3	20.0	20.0	H-117	20.0	20.0	H-117	True
H-322	<None>	4	True	1,000.00	2,034.52	1,000.00	2,034.52	20.0	20.0	20.0	21.3	H-325	20.0	21.3	H-325	True
H-86	<None>	4	True	1,000.00	2,039.10	1,000.00	2,039.10	20.0	20.0	20.0	23.0	J-8016	20.0	23.0	J-8016	True
H-262	<None>	4	True	1,000.00	2,040.56	1,000.00	2,040.56	20.0	20.0	20.0	24.1	J-8262	20.0	24.1	J-8262	True
H-234	<None>	5	True	1,000.00	2,042.98	1,000.00	2,042.98	20.0	21.1	20.0	20.0	H-235	20.0	20.0	H-235	True
FH 209	<None>	6	True	1,000.00	2,045.99	1,000.00	2,045.99	20.0	23.7	20.0	20.0	H-325	20.0	20.0	H-325	True
H-352	<None>	3	True	1,000.00	2,054.09	1,000.00	2,054.09	20.0	20.0	20.0	22.6	J-7784	20.0	22.6	J-7784	True
H-305	<None>	4	True	1,000.00	2,056.36	1,000.00	2,056.36	20.0	20.0	20.0	25.6	J-8332	20.0	25.6	J-8332	True
H-186	<None>	4	True	1,000.00	2,060.19	1,000.00	2,060.19	20.0	20.0	20.0	22.0	J-9065	20.0	22.0	J-9065	True
H-85	<None>	4	True	1,000.00	2,075.33	1,000.00	2,075.33	20.0	20.0	20.0	21.9	H-84	20.0	21.9	H-84	True
H-103	<None>	6	True	1,000.00	2,081.21	1,000.00	2,081.21	20.0	20.8	20.0	20.0	H-117	20.0	20.0	H-117	True
H-484	<None>	6	True	1,000.00	2,093.58	1,000.00	2,093.58	20.0	33.5	20.0	20.0	H-325	20.0	20.0	H-325	True
H-161	<None>	4	True	1,000.00	2,099.32	1,000.00	2,099.32	20.0	20.0	20.0	22.7	J-7666	20.0	22.7	J-7666	True
H-12	<None>	3	True	1,000.00	2,100.31	1,000.00	2,100.31	20.0	20.0	20.0	24.1	J-8284	20.0	24.1	J-8284	True
H-236	<None>	3	True	1,000.00	2,102.18	1,000.00	2,102.18	20.0	20.0	20.0	24.3	J-8280	20.0	24.3	J-8280	True
H-78	<None>	4	True	1,000.00	2,103.55	1,000.00	2,103.55	20.0	20.0	20.0	20.5	H-420	20.0	20.5	H-420	True
H-384	<None>	3	True	1,000.00	2,108.76	1,000.00	2,108.76	20.0	20.0	20.0	21.2	J-8216	20.0	21.2	J-8216	True
H-152	<None>	4	True	1,000.00	2,112.33	1,000.00	2,112.33	20.0	20.0	20.0	22.8	J-7652	20.0	22.8	J-7652	True
H-97	<None>	4	True	1,000.00	2,123.27	1,000.00	2,123.27	20.0	20.0	20.0	23.1	J-8029	20.0	23.1	J-8029	True
H-297	<None>	6	True	1,000.00	2,126.48	1,000.00	2,126.48	20.0	23.0	20.0	20.0	J-8244	20.0	20.0	J-8244	True
H-216	<None>	4	True	1,000.00	2,130.31	1,000.00	2,130.31	20.0	20.0	20.0	22.8	J-7733	20.0	22.8	J-7733	True
H-441	<None>	4	True	1,000.00	2,138.06	1,000.00	2,138.06	20.0	20.0	20.0	22.6	J-7498	20.0	22.6	J-7498	True
H-89	<None>	4	True	1,000.00	2,139.86	1,000.00	2,139.86	20.0	20.0	20.0	23.0	J-7332	20.0	23.0	J-7332	True
H-333	<None>	4	True	1,000.00</												

FH - 402	<None>	4	True	1,000.00	2,155.68	1,000.00	2,155.68	20.0	20.0	20.0	22.9	J-7869	20.0	22.9	J-7869	True
H-449	<None>	5	True	1,000.00	2,161.69	1,000.00	2,161.69	20.0	20.0	20.0	31.6	J-8158	20.0	31.6	J-8158	True
H-374	<None>	4	True	1,000.00	2,171.12	1,000.00	2,171.12	20.0	20.0	20.0	22.8	J-7668	20.0	22.8	J-7668	True
H-253	<None>	5	True	1,000.00	2,182.71	1,000.00	2,182.71	20.0	20.0	20.0	23.4	J-8166	20.0	23.4	J-8166	True
H-255	<None>	5	True	1,000.00	2,183.36	1,000.00	2,183.36	20.0	20.0	20.0	22.8	H-253	20.0	22.8	H-253	True
H-164	<None>	4	True	1,000.00	2,189.87	1,000.00	2,189.87	20.0	20.0	20.0	22.5	J-7677	20.0	22.5	J-7677	True
H-49	<None>	4	True	1,000.00	2,191.59	1,000.00	2,191.59	20.0	20.0	20.0	22.4	J-7813	20.0	22.4	J-7813	True
H-430	<None>	4	True	1,000.00	2,194.85	1,000.00	2,194.85	20.0	20.0	20.0	21.8	J-8519	20.0	21.8	J-8519	True
H-254	<None>	5	True	1,000.00	2,197.34	1,000.00	2,197.34	20.0	20.0	20.0	22.2	H-253	20.0	22.2	H-253	True
H-163	<None>	4	True	1,000.00	2,216.05	1,000.00	2,216.05	20.0	20.0	20.0	23.3	J-7650	20.0	23.3	J-7650	True
H-44	<None>	3	True	1,000.00	2,216.15	1,000.00	2,216.15	20.0	20.0	20.0	22.1	J-8721	20.0	22.1	J-8721	True
H-157	<None>	4	True	1,000.00	2,221.39	1,000.00	2,221.39	20.0	20.0	20.0	22.8	J-7723	20.0	22.8	J-7723	True
H-389	<None>	4	True	1,000.00	2,222.62	1,000.00	2,222.62	20.0	20.0	20.0	23.0	J-7811	20.0	23.0	J-7811	True
FH - 403	<None>	5	True	1,000.00	2,235.35	1,000.00	2,235.35	20.0	20.0	20.0	28.1	FH - 402	20.0	28.1	FH - 402	True
H-252	<None>	5	True	1,000.00	2,241.47	1,000.00	2,241.47	20.0	20.0	20.0	22.3	H-253	20.0	22.3	H-253	True
FH - 70	<None>	3	True	1,000.00	2,242.78	1,000.00	2,242.78	20.0	20.0	20.0	38.5	J-7847	20.0	38.5	J-7847	True
H-251	<None>	5	True	1,000.00	2,246.19	1,000.00	2,246.19	20.0	20.0	20.0	24.2	H-253	20.0	24.2	H-253	True
H-17	<None>	6	True	1,000.00	2,247.59	1,000.00	2,247.59	20.0	20.7	20.0	20.0	H-262	20.0	20.0	H-262	True
H-425	<None>	3	True	1,000.00	2,260.64	1,000.00	2,260.64	20.0	20.0	20.0	22.5	J-7385	20.0	22.5	J-7385	True
H-4	<None>	3	True	1,000.00	2,263.56	1,000.00	2,263.56	20.0	20.0	20.0	23.5	H-45	20.0	23.5	H-45	True
H-445	<None>	4	True	1,000.00	2,265.04	1,000.00	2,265.04	20.0	20.0	20.0	22.3	H-325	20.0	22.3	H-325	True
H-288	<None>	4	True	1,000.00	2,265.73	1,000.00	2,265.73	20.0	20.0	20.0	22.2	H-325	20.0	22.2	H-325	True
H-188	<None>	4	True	1,000.00	2,266.65	1,000.00	2,266.65	20.0	20.0	20.0	23.4	J-8961	20.0	23.4	J-8961	True
H-375	<None>	6	True	1,000.00	2,268.20	1,000.00	2,268.20	20.0	30.8	20.0	20.0	H-325	20.0	20.0	H-325	True
H-66	<None>	4	True	1,000.00	2,273.06	1,000.00	2,273.06	20.0	20.0	20.0	23.0	J-9119	20.0	23.0	J-9119	True
H-223	<None>	4	True	1,000.00	2,275.36	1,000.00	2,275.36	20.0	20.0	20.0	22.9	J-7817	20.0	22.9	J-7817	True
H-387	<None>	4	True	1,000.00	2,290.63	1,000.00	2,290.63	20.0	20.0	20.0	22.8	J-7888	20.0	22.8	J-7888	True
H-458	<None>	6	True	1,000.00	2,293.43	1,000.00	2,293.43	20.0	29.5	20.0	20.0	H-325	20.0	20.0	H-325	True
H-87	<None>	4	True	1,000.00	2,296.21	1,000.00	2,296.21	20.0	20.0	20.0	23.5	J-8034	20.0	23.5	J-8034	True
H-343	<None>	4	True	1,000.00	2,297.29	1,000.00	2,297.29	20.0	20.0	20.0	23.3	J-7753	20.0	23.3	J-7753	True
H-197	<None>	4	True	1,000.00	2,304.47	1,000.00	2,304.47	20.0	20.0	20.0	22.8	J-7541	20.0	22.8	J-7541	True
H-263	<None>	4	True	1,000.00	2,313.64	1,000.00	2,313.64	20.0	20.0	20.0	20.3	H-262	20.0	20.3	H-262	True
H-33	<None>	6	True	1,000.00	2,313.74	1,000.00	2,313.74	20.0	28.5	20.0	20.0	H-325	20.0	20.0	H-325	True
H-440	<None>	6	True	1,000.00	2,324.77	1,000.00	2,324.77	20.0	27.3	20.0	20.0	H-325	20.0	20.0	H-325	True
H-370	<None>	4	True	1,000.00	2,336.65	1,000.00	2,336.65	20.0	20.0	20.0	22.6	J-7662	20.0	22.6	J-7662	True
H-264	<None>	4	True	1,000.00	2,342.62	1,000.00	2,342.62	20.0	20.0	20.0	21.6	H-21	20.0	21.6	H-21	True
H-350	<None>	6	True	1,000.00	2,344.55	1,000.00	2,344.55	20.0	22.7	20.0	20.0	H-325	20.0	20.0	H-325	True
H-487	<None>	4	True	1,000.00	2,344.97	1,000.00	2,344.97	20.0	20.0	20.0	40.7	H-27	20.0	40.7	H-27	True
H-190	<None>	4	True	1,000.00	2,347.89	1,000.00	2,347.89	20.0	20.0	20.0	23.6	J-8006	20.0	23.6	J-8006	True
H-439	<None>	6	True	1,000.00	2,349.63	1,000.00	2,349.63	20.0	22.6	20.0	20.0	H-325	20.0	20.0	H-325	True
H-444	<None>	4	True	1,000.00	2,350.88	1,000.00	2,350.88	20.0	20.0	20.0	20.1	H-325	20.0	20.1	H-325	True
H-442	<None>	22	True	1,000.00	2,352.87	1,000.00	2,352.87	20.0	20.1	20.0	20.0	H-325	20.0	20.0	H-325	True
FH - 71	<None>	3	True	1,000.00	2,354.65	1,000.00	2,354.65	20.0	20.0	20.0	38.6	J-8828	20.0	38.6	J-8828	True
H-224	<None>	4	True	1,000.00	2,355.82	1,000.00	2,355.82	20.0	20.0	20.0	23.1	J-7803	20.0	23.1	J-7803	True
H-438	<None>	6	True	1,000.00	2,356.93	1,000.00	2,356.93	20.0	22.6	20.0	20.0	H-325	20.0	20.0	H-325	True
H-139	<None>	4	True	1,000.00	2,357.68	1,000.00	2,357.68	20.0	20.0	20.0	24.3	H-138	20.0	24.3	H-138	True
H-443	<None>	6	True	1,000.00	2,363.87	1,000.00	2,363.87	20.0	28.0	20.0	20.0	H-325	20.0	20.0	H-325	True
H-107	<None>	14	True	1,000.00	2,364.13	1,000.00	2,364.13	20.0	20.0	20.0	23.2	J-7794	20.0	23.2	J-7794	True
H-32	<None>	6	True	1,000.00	2,370.92	1,000.00	2,370.92	20.0	30.0	20.0	20.0	H-325	20.0	20.0	H-325	True
H-383	<None>	4	True	1,000.00	2,374.27	1,000.00	2,374.27	20.0	20.0	20.0	21.7	J-7218	20.0	21.7	J-7218	True
H-39	<None>	4	True	1,000.00	2,375.07	1,000.00	2,375.07	20.0	20.0	20.0	23.3	J-7665	20.0	23.3	J-7665	True
H-77	<None>	4	True	1,000.00	2,378.60	1,000.00	2,378.60	20.0	20.0	20.0	23.3	J-7748	20.0	23.3	J-7748	True
H-250	<None>	9	True	1,000.00	2,379.58	1,000.00	2,379.58	20.0	20.0	20.0	20.5	H-253	20.0	20.5	H-253	True
H-285	<None>	6	True	1,000.00	2,386.98	1,000.00	2,386.98	20.0	31.2	20.0	20.0	H-325	20.0	20.0	H-325	True
H-232	<None>	3	True	1,000.00	2,389.79	1,000.00	2,389.79	20.0	20.0	20.0	22.6	J-8024	20.0	22.6	J-8024	True
H-286	<None>	6	True	1,000.00	2,390.55	1,000.00	2,390.55	20.0	26.0	20.0	20.0	H-325	20.0	20.0	H-325	True
H-274	<None>	4	True	1,000.00	2,393.75	1,000.00	2,393.75	20.0	20.0	20.0	23.3	J-7440	20.0	23.3	J-7440	True
H-447	<None>	6	True	1,000.00	2,401.03	1,000.00	2,401.03	20.0	29.0	20.0	20.0	H-325	20.0	20.0	H-325	True
H-71	<None>	4	True	1,000.00	2,405.21	1,000.00	2,405.21	20.0	20.0	20.0	22.7	J-7411	20.0	22.7	J-7411	True
H-246	<None>	10	True	1,000.00	2,405.63	1,000.00	2,405.63	20.0	20.0	20.0	23.9	FH - 402	20.0	23.9	FH - 402	True
H-196	<None>	4	True	1,000.00	2,410.74	1,000.00	2,410.74	20.0	20.0	20.0	23.8	J-8022	20.0	23.8	J-8022	True
H-256	<None>	10	True	1,000.00	2,418.04	1,000.00	2,418.04	20.0	20.0	20.0	23.9	H-246	20.0	23.9	H-246	True
H-34	<None>	6	True	1,000.00	2,421.50	1,000.00	2,421.50	20.0	34.1	20.0	20.0	H-325	20.0	20.0	H-325	True
H-72	<None>	4	True	1,000.00	2,424.06	1,000.00	2,424.06	20.0	20.0	20.0	23.7	J-7984	20.0	23.7	J-7984	True
H-446	<None>	6	True	1,000.00	2,424.78	1,000.00	2,424.78	20.0	32.7	20.0	20.0	H-325	20.0	20.0	H-325	True
H-296	<None>	4	True	1,000.00	2,426.64	1,000.00	2,426.64	20.0	20.0	20.0	32.8	J-7831	20.0	32.8	J-7831	True
H-58	<None>	3	True	1,000.00	2,434.33	1,000.00	2,434.33	20.0	20.0	20.0	24.3	J-8091	20.0	24.3	J-8091	True
H-249	<None>	11	True	1,000.00	2,434.44	1,000.00	2,434.44	20.0	21.2	20.0	20.0	FH - 402	20.0	20.0	FH - 402	True
H-192	<None>	4	True	1,000.00	2,435.56	1,000.00	2,435.56	20.0	20.0	20.0	23.9	J-8031	20.0	23.9	J-8031	True
H-245	<None>	11	True	1,000.00	2,449.35	1,000.00	2,449.35	20.0	20.0	20.0	24.6	H-246	20.0	24.6	H-246	True
H-169	<None>	4	True	1,000.00	2,452.10	1,000.00	2,452.10	20.0	20.0	20.0	23.2	J-7630	20.0	23.2	J-7630	True
H-218	<None>	4	True	1,000.00	2,452.18	1,000.00	2,452.18	20.0	20.0	20.0	23.3	J-7735	20.0	23.3	J-7735	True
H-185	<None>	4	True	1,000.00	2,458.53	1,000.00	2,458.53	20.0	20.0	20.0	23.4	J-9065	20.0	23.4	J-9065	True
H-376	<None>	6	True	1,000.00	2,468.11	1,000.00	2,468.11	20.0	36.2	20.0	20.0	H-325	20.0	20.0	H-325	True
H-99	<None>	4	True													

	<None>	4	True	1,000.00	2,480.26	1,000.00	2,480.26	20.0	20.0	20.0	21.2	J-7078	20.0	21.2	J-7078	True
H-172	<None>	4	True	1,000.00	2,485.78	1,000.00	2,485.78	20.0	20.0	20.0	23.2	J-7638	20.0	23.2	J-7638	True
H-451	<None>	4	True	1,000.00	2,489.06	1,000.00	2,489.06	20.0	20.0	20.0	23.7	J-7881	20.0	23.7	J-7881	True
H-396	<None>	4	True	1,000.00	2,489.27	1,000.00	2,489.27	20.0	20.0	20.0	23.0	J-7416	20.0	23.0	J-7416	True
H-371	<None>	4	True	1,000.00	2,508.03	1,000.00	2,508.03	20.0	20.0	20.0	20.3	J-8244	20.0	20.3	J-8244	True
H-200	<None>	4	True	1,000.00	2,510.05	1,000.00	2,510.05	20.0	20.0	20.0	22.1	FH - 48	20.0	22.1	FH - 48	True
H-244	<None>	11	True	1,000.00	2,531.07	1,000.00	2,531.07	20.0	20.0	20.0	23.4	H-245	20.0	23.4	H-245	True
H-418	<None>	4	True	1,000.00	2,532.02	1,000.00	2,532.02	20.0	20.0	20.0	23.6	J-7707	20.0	23.6	J-7707	True
H-356	<None>	4	True	1,000.00	2,537.72	1,000.00	2,537.72	20.0	20.0	20.0	23.7	J-7410	20.0	23.7	J-7410	True
H-388	<None>	4	True	1,000.00	2,540.14	1,000.00	2,540.14	20.0	20.0	20.0	23.6	J-7672	20.0	23.6	J-7672	True
H-79	<None>	4	True	1,000.00	2,562.75	1,000.00	2,562.75	20.0	20.0	20.0	23.6	J-7835	20.0	23.6	J-7835	True
H-179	<None>	4	True	1,000.00	2,573.15	1,000.00	2,573.15	20.0	20.0	20.0	25.2	J-8188	20.0	25.2	J-8188	True
H-294	<None>	4	True	1,000.00	2,576.05	1,000.00	2,576.05	20.0	20.0	20.0	34.4	J-8751	20.0	34.4	J-8751	True
H-73	<None>	4	True	1,000.00	2,576.18	1,000.00	2,576.18	20.0	20.0	20.0	23.7	J-7782	20.0	23.7	J-7782	True
H-80	<None>	4	True	1,000.00	2,587.59	1,000.00	2,587.59	20.0	20.0	20.0	20.4	H-221	20.0	20.4	H-221	True
H-100	<None>	4	True	1,000.00	2,587.73	1,000.00	2,587.73	20.0	20.0	20.0	23.9	H-99	20.0	23.9	H-99	True
H-243	<None>	11	True	1,000.00	2,594.48	1,000.00	2,594.48	20.0	20.0	20.0	24.2	H-245	20.0	24.2	H-245	True
H-348	<None>	4	True	1,000.00	2,595.48	1,000.00	2,595.48	20.0	20.0	20.0	22.9	J-7063	20.0	22.9	J-7063	True
H-94	<None>	4	True	1,000.00	2,607.79	1,000.00	2,607.79	20.0	20.0	20.0	34.2	J-7112	20.0	34.2	J-7112	True
H-153	<None>	4	True	1,000.00	2,609.10	1,000.00	2,609.10	20.0	20.0	20.0	23.5	J-7625	20.0	23.5	J-7625	True
H-222	<None>	4	True	1,000.00	2,627.59	1,000.00	2,627.59	20.0	20.0	20.0	23.8	J-7799	20.0	23.8	J-7799	True
H-5	<None>	8	True	1,000.00	2,628.07	1,000.00	2,628.07	20.0	20.0	20.0	25.3	J-8225	20.0	25.3	J-8225	True
H-377	<None>	6	True	1,000.00	2,632.16	1,000.00	2,632.16	20.0	36.2	20.0	20.0	H-325	20.0	20.0	H-325	True
H-242	<None>	11	True	1,000.00	2,637.18	1,000.00	2,637.18	20.0	20.0	20.0	24.3	H-243	20.0	24.3	H-243	True
H-284	<None>	4	True	1,000.00	2,680.55	1,000.00	2,680.55	20.0	20.0	20.0	24.2	J-7934	20.0	24.2	J-7934	True
FH - 464	<None>	4	True	1,000.00	2,692.43	1,000.00	2,692.43	20.0	20.0	20.0	34.9	H-27	20.0	34.9	H-27	True
H-275	<None>	4	True	1,000.00	2,697.50	1,000.00	2,697.50	20.0	20.0	20.0	23.7	J-7393	20.0	23.7	J-7393	True
H-167	<None>	4	True	1,000.00	2,700.53	1,000.00	2,700.53	20.0	20.0	20.0	23.9	J-7709	20.0	23.9	J-7709	True
H-160	<None>	4	True	1,000.00	2,710.15	1,000.00	2,710.15	20.0	20.0	20.0	23.7	J-7632	20.0	23.7	J-7632	True
H-96	<None>	4	True	1,000.00	2,715.97	1,000.00	2,715.97	20.0	20.0	20.0	25.2	J-8129	20.0	25.2	J-8129	True
H-76	<None>	4	True	1,000.00	2,721.55	1,000.00	2,721.55	20.0	20.0	20.0	24.2	J-7867	20.0	24.2	J-7867	True
H-341	<None>	3	True	1,000.00	2,733.04	1,000.00	2,733.04	20.0	20.0	20.0	23.4	J-7420	20.0	23.4	J-7420	True
H-289	<None>	4	True	1,000.00	2,747.77	1,000.00	2,747.77	20.0	20.0	20.0	24.8	J-7809	20.0	24.8	J-7809	True
H-237	<None>	4	True	1,000.00	2,757.56	1,000.00	2,757.56	20.0	20.0	20.0	26.6	J-8315	20.0	26.6	J-8315	True
H-16	<None>	4	True	1,000.00	2,764.28	1,000.00	2,764.28	20.0	20.0	20.0	24.9	J-8922	20.0	24.9	J-8922	True
H-75	<None>	4	True	1,000.00	2,781.13	1,000.00	2,781.13	20.0	20.0	20.0	23.9	J-7731	20.0	23.9	J-7731	True
H-448	<None>	4	True	1,000.00	2,785.66	1,000.00	2,785.66	20.0	20.0	20.0	24.2	J-7900	20.0	24.2	J-7900	True
H-379	<None>	6	True	1,000.00	2,786.55	1,000.00	2,786.55	20.0	31.5	20.0	20.0	H-325	20.0	20.0	H-325	True
H-261	<None>	4	True	1,000.00	2,796.29	1,000.00	2,796.29	20.0	20.0	20.0	27.3	J-8348	20.0	27.3	J-8348	True
H-334	<None>	4	True	1,000.00	2,798.40	1,000.00	2,798.40	20.0	20.0	20.0	24.1	J-7693	20.0	24.1	J-7693	True
H-277	<None>	4	True	1,000.00	2,811.18	1,000.00	2,811.18	20.0	20.0	20.0	24.1	J-7617	20.0	24.1	J-7617	True
H-170	<None>	4	True	1,000.00	2,846.24	1,000.00	2,846.24	20.0	20.0	20.0	25.0	J-7998	20.0	25.0	J-7998	True
H-10	<None>	4	True	1,000.00	2,849.33	1,000.00	2,849.33	20.0	20.0	20.0	23.7	J-7446	20.0	23.7	J-7446	True
H-166	<None>	4	True	1,000.00	2,850.62	1,000.00	2,850.62	20.0	20.0	20.0	24.5	J-7557	20.0	24.5	J-7557	True
H-238	<None>	4	True	1,000.00	2,850.80	1,000.00	2,850.80	20.0	20.0	20.0	26.8	J-8290	20.0	26.8	J-8290	True
H-271	<None>	4	True	1,000.00	2,862.30	1,000.00	2,862.30	20.0	20.0	20.0	24.4	J-7792	20.0	24.4	J-7792	True
FH - 465	<None>	4	True	1,000.00	2,872.02	1,000.00	2,872.02	20.0	20.0	20.0	33.3	H-27	20.0	33.3	H-27	True
H-409	<None>	4	True	1,000.00	2,875.98	1,000.00	2,875.98	20.0	20.0	20.0	38.4	J-7095	20.0	38.4	J-7095	True
H-278	<None>	4	True	1,000.00	2,878.85	1,000.00	2,878.85	20.0	20.0	20.0	24.8	J-7990	20.0	24.8	J-7990	True
H-56	<None>	4	True	1,000.00	2,879.80	1,000.00	2,879.80	20.0	20.0	20.0	34.8	J-8531	20.0	34.8	J-8531	True
H-220	<None>	4	True	1,000.00	2,885.23	1,000.00	2,885.23	20.0	20.0	20.0	23.4	J-7395	20.0	23.4	J-7395	True
H-198	<None>	4	True	1,000.00	2,889.71	1,000.00	2,889.71	20.0	20.0	20.0	23.0	J-7358	20.0	23.0	J-7358	True
H-241	<None>	8	True	1,000.00	2,891.70	1,000.00	2,891.70	20.0	30.2	20.0	20.0	J-8855	20.0	20.0	J-8855	True
H-173	<None>	4	True	1,000.00	2,893.96	1,000.00	2,893.96	20.0	20.0	20.0	24.7	J-7968	20.0	24.7	J-7968	True
H-180	<None>	4	True	1,000.00	2,907.01	1,000.00	2,907.01	20.0	20.0	20.0	22.4	H-179	20.0	22.4	H-179	True
H-385	<None>	4	True	1,000.00	2,912.62	1,000.00	2,912.62	20.0	20.0	20.0	23.7	J-7452	20.0	23.7	J-7452	True
H-335	<None>	4	True	1,000.00	2,915.29	1,000.00	2,915.29	20.0	20.0	20.0	24.1	J-7604	20.0	24.1	J-7604	True
H-36	<None>	6	True	1,000.00	2,950.97	1,000.00	2,950.97	20.0	25.3	20.0	20.0	H-27	20.0	20.0	H-27	True
H-415	<None>	4	True	1,000.00	2,951.68	1,000.00	2,951.68	20.0	20.0	20.0	22.1	H-66	20.0	22.1	H-66	True
H-165	<None>	4	True	1,000.00	2,952.15	1,000.00	2,952.15	20.0	20.0	20.0	24.6	J-7699	20.0	24.6	J-7699	True
H-178	<None>	6	True	1,000.00	2,956.25	1,000.00	2,956.25	20.0	21.1	20.0	20.0	H-179	20.0	20.0	H-179	True
H-227	<None>	4	True	1,000.00	2,957.81	1,000.00	2,957.81	20.0	20.0	20.0	23.1	J-7345	20.0	23.1	J-7345	True
H-394	<None>	4	True	1,000.00	2,979.74	1,000.00	2,979.74	20.0	20.0	20.0	27.4	J-8328	20.0	27.4	J-8328	True
H-423	<None>	4	True	1,000.00	2,980.87	1,000.00	2,980.87	20.0	20.0	20.0	26.0	J-8115	20.0	26.0	J-8115	True
422	<None>	4	True	1,000.00	2,987.25	1,000.00	2,987.25	20.0	20.0	20.0	22.2	J-9153	20.0	22.2	J-9153	True
H-184	<None>	4	True	1,000.00	2,991.88	1,000.00	2,991.88	20.0	20.0	20.0	25.9	J-8111	20.0	25.9	J-8111	True
H-158	<None>	4	True	1,000.00	2,997.22	1,000.00	2,997.22	20.0	20.0	20.0	23.8	H-162	20.0	23.8	H-162	True
H-291	<None>	4	True	1,000.00	3,003.49	1,000.00	3,003.49	20.0	20.0	20.0	30.8	J-7075	20.0	30.8	J-7075	True
H-228	<None>	4	True	1,000.00	3,011.42	1,000.00	3,011.42	20.0	20.0	20.0	24.4	J-7654	20.0	24.4	J-7654	True
H-7	<None>	4	True	1,000.00	3,024.74	1,000.00	3,024.74	20.0	20.0	20.0	25.1	H-237	20.0	25.1	H-237	True
H-226	<None>	4	True	1,000.00	3,036.83	1,000.00	3,036.83	20.0	20.0	20.0	22.5	J-7264	20.0	22.5	J-7264	True
FH - 229	<None>	4	True	1,000.00	3,039.83	1,000.00	3,039.83	20.0	20.0	20.0	38.5	H-179	20.0	38.5	H-179	True
H-181	<None>	4	True	1,000.00	3,043.20	1,000.00	3,043.20	20.0	20.0	20.0	22.0	H-179	20.0	22.0	H-179	True
H-395	<None>	4	True	1,000.00	3,049.20	1,000.00	3,049.20	20.0	20.0	20.0	24.3	J-7602	20.0	24.3	J-7602	True
H-59	<None>															

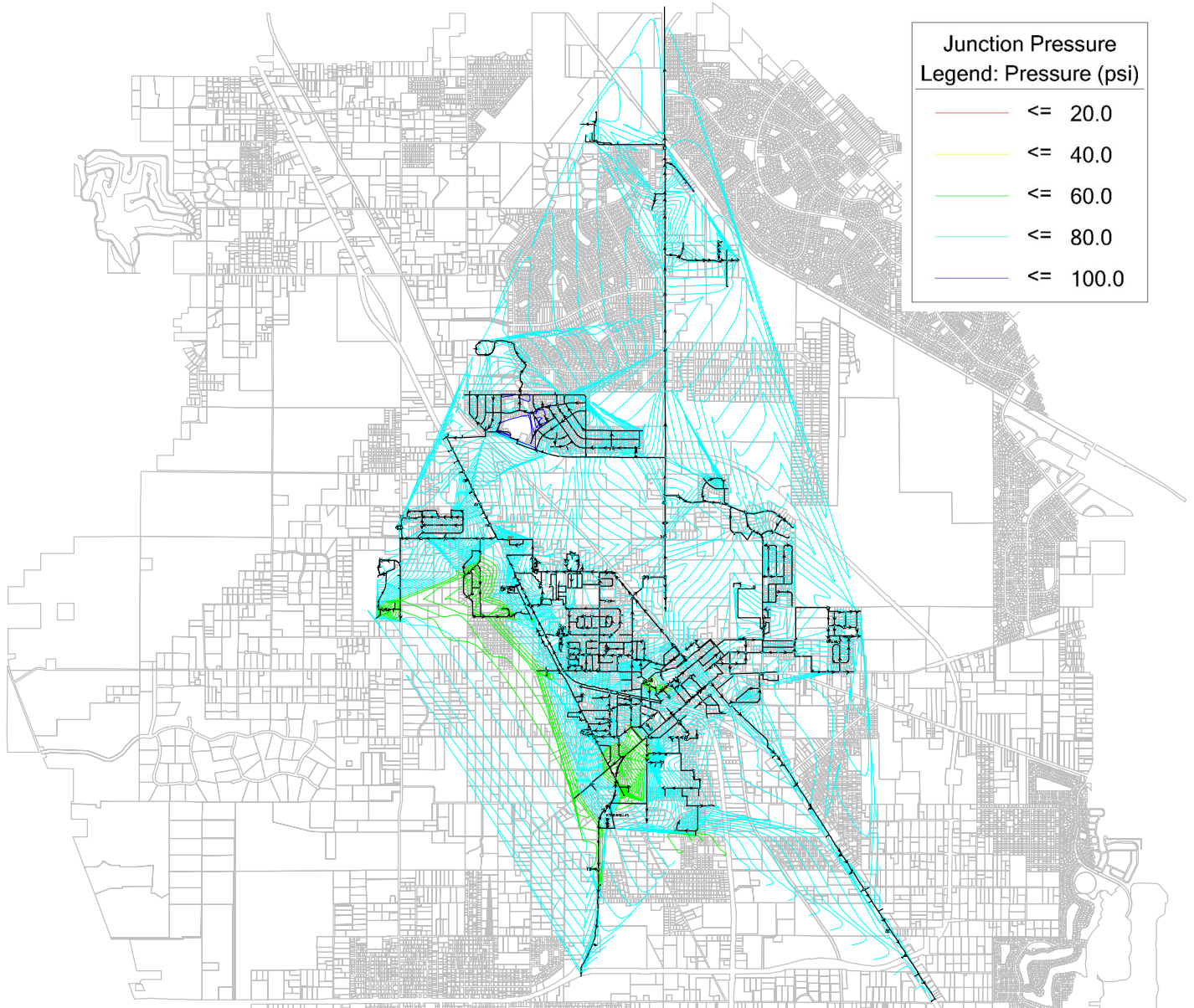
	<None>	4	True	1,000.00	3,074.25	1,000.00	3,074.25	20.0	20.0	20.0	23.0	H-179	20.0	23.0	H-179	True
H-428	<None>	4	True	1,000.00	3,092.28	1,000.00	3,092.28	20.0	20.0	20.0	24.6	J-7623	20.0	24.6	J-7623	True
H-154	<None>	4	True	1,000.00	3,097.94	1,000.00	3,097.94	20.0	20.0	20.0	24.7	J-7715	20.0	24.7	J-7715	True
H-175	<None>	4	True	1,000.00	3,104.93	1,000.00	3,104.93	20.0	20.0	20.0	24.9	H-334	20.0	24.9	H-334	True
H-381	<None>	4	True	1,000.00	3,125.00	1,000.00	3,125.00	20.0	20.0	20.0	22.6	H-27	20.0	22.6	H-27	True
H-276	<None>	4	True	1,000.00	3,126.86	1,000.00	3,126.86	20.0	20.0	20.0	24.7	J-7434	20.0	24.7	J-7434	True
H-353	<None>	4	True	1,000.00	3,131.09	1,000.00	3,131.09	20.0	20.0	20.0	26.2	H-341	20.0	26.2	H-341	True
H-81	<None>	4	True	1,000.00	3,143.74	1,000.00	3,143.74	20.0	20.0	20.0	21.6	FH - 48	20.0	21.6	FH - 48	True
H-339	<None>	4	True	1,000.00	3,147.81	1,000.00	3,147.81	20.0	20.0	20.0	29.6	J-8383	20.0	29.6	J-8383	True
H-156	<None>	4	True	1,000.00	3,153.54	1,000.00	3,153.54	20.0	20.0	20.0	24.8	J-7691	20.0	24.8	J-7691	True
H-46	<None>	4	True	1,000.00	3,160.06	1,000.00	3,160.06	20.0	20.0	20.0	31.0	J-8244	20.0	31.0	J-8244	True
H-332	<None>	4	True	1,000.00	3,161.30	1,000.00	3,161.30	20.0	20.0	20.0	26.6	J-8107	20.0	26.6	J-8107	True
H-174	<None>	22	True	1,000.00	3,162.59	1,000.00	3,162.59	20.0	20.1	20.0	20.0	H-334	20.0	20.0	H-334	True
H-199	<None>	4	True	1,000.00	3,189.73	1,000.00	3,189.73	20.0	20.0	20.0	21.0	J-7338	20.0	21.0	J-7338	True
H-151	<None>	4	True	1,000.00	3,189.78	1,000.00	3,189.78	20.0	20.0	20.0	25.5	J-7958	20.0	25.5	J-7958	True
H-290	<None>	4	True	1,000.00	3,190.76	1,000.00	3,190.76	20.0	20.0	20.0	24.8	J-7660	20.0	24.8	J-7660	True
H-9	<None>	4	True	1,000.00	3,216.17	1,000.00	3,216.17	20.0	20.0	20.0	32.7	J-7882	20.0	32.7	J-7882	True
H-159	<None>	4	True	1,000.00	3,228.35	1,000.00	3,228.35	20.0	20.0	20.0	23.1	H-162	20.0	23.1	H-162	True
H-476	<None>	6	True	1,000.00	3,257.54	1,000.00	3,257.54	20.0	26.0	20.0	20.0	H-27	20.0	20.0	H-27	True
H-281	<None>	4	True	1,000.00	3,260.30	1,000.00	3,260.30	20.0	20.0	20.0	25.1	J-7737	20.0	25.1	J-7737	True
H-300	<None>	5	True	1,000.00	3,264.91	1,000.00	3,264.91	20.0	27.0	20.0	20.0	H-27	20.0	20.0	H-27	True
H-269	<None>	6	True	1,000.00	3,267.45	1,000.00	3,267.45	20.0	23.6	20.0	20.0	H-267	20.0	20.0	H-267	True
H-283	<None>	4	True	1,000.00	3,269.30	1,000.00	3,269.30	20.0	20.0	20.0	25.2	H-162	20.0	25.2	H-162	True
H-30	<None>	4	True	1,000.00	3,271.31	1,000.00	3,271.31	20.0	20.0	20.0	25.1	J-8993	20.0	25.1	J-8993	True
H-282	<None>	4	True	1,000.00	3,275.91	1,000.00	3,275.91	20.0	20.0	20.0	21.7	H-334	20.0	21.7	H-334	True
H-155	<None>	4	True	1,000.00	3,293.07	1,000.00	3,293.07	20.0	20.0	20.0	22.5	H-162	20.0	22.5	H-162	True
H-318	<None>	4	True	1,000.00	3,293.37	1,000.00	3,293.37	20.0	20.0	20.0	21.3	H-27	20.0	21.3	H-27	True
H-405	<None>	4	True	1,000.00	3,296.59	1,000.00	3,296.59	20.0	20.0	20.0	23.8	J-7372	20.0	23.8	J-7372	True
H-477	<None>	4	True	1,000.00	3,305.01	1,000.00	3,305.01	20.0	20.0	20.0	21.3	J-7041	20.0	21.3	J-7041	True
H-317	<None>	6	True	1,000.00	3,316.22	1,000.00	3,316.22	20.0	22.0	20.0	20.0	H-27	20.0	20.0	H-27	True
H-280	<None>	4	True	1,000.00	3,316.89	1,000.00	3,316.89	20.0	20.0	20.0	24.7	H-162	20.0	24.7	H-162	True
H-386	<None>	6	True	1,000.00	3,319.83	1,000.00	3,319.83	20.0	24.2	20.0	20.0	H-27	20.0	20.0	H-27	True
H-279	<None>	4	True	1,000.00	3,319.86	1,000.00	3,319.86	20.0	20.0	20.0	24.4	H-162	20.0	24.4	H-162	True
H-93	<None>	4	True	1,000.00	3,332.16	1,000.00	3,332.16	20.0	20.0	20.0	27.0	J-8117	20.0	27.0	J-8117	True
H-392	<None>	4	True	1,000.00	3,335.18	1,000.00	3,335.18	20.0	20.0	20.0	25.4	J-7827	20.0	25.4	J-7827	True
FH - 230	<None>	4	True	1,000.00	3,335.33	1,000.00	3,335.33	20.0	20.0	20.0	31.0	H-179	20.0	31.0	H-179	True
H-6	<None>	4	True	1,000.00	3,337.34	1,000.00	3,337.34	20.0	20.0	20.0	24.7	H-235	20.0	24.7	H-235	True
H-301	<None>	4	True	1,000.00	3,337.64	1,000.00	3,337.64	20.0	20.0	20.0	20.6	H-27	20.0	20.6	H-27	True
H-230	<None>	4	True	1,000.00	3,344.70	1,000.00	3,344.70	20.0	20.0	20.0	22.7	J-7268	20.0	22.7	J-7268	True
H-189	<None>	4	True	1,000.00	3,347.02	1,000.00	3,347.02	20.0	20.0	20.0	27.2	J-8127	20.0	27.2	J-8127	True
H-354	<None>	4	True	1,000.00	3,352.15	1,000.00	3,352.15	20.0	20.0	20.0	26.7	H-425	20.0	26.7	H-425	True
H-479	<None>	4	True	1,000.00	3,354.61	1,000.00	3,354.61	20.0	20.0	20.0	23.6	H-27	20.0	23.6	H-27	True
H-403	<None>	4	True	1,000.00	3,363.15	1,000.00	3,363.15	20.0	20.0	20.0	26.9	J-8059	20.0	26.9	J-8059	True
487	<None>	4	True	1,000.00	3,363.67	1,000.00	3,363.67	20.0	20.0	20.0	23.5	J-9152	20.0	23.5	J-9152	True
H-427	<None>	4	True	1,000.00	3,367.33	1,000.00	3,367.33	20.0	20.0	20.0	26.7	J-8820	20.0	26.7	J-8820	True
H-327	<None>	4	True	1,000.00	3,369.94	1,000.00	3,369.94	20.0	20.0	20.0	25.6	J-7894	20.0	25.6	J-7894	True
H-270	<None>	4	True	1,000.00	3,376.60	1,000.00	3,376.60	20.0	20.0	20.0	24.6	H-267	20.0	24.6	H-267	True
H-457	<None>	4	True	1,000.00	3,396.03	1,000.00	3,396.03	20.0	20.0	20.0	21.4	H-27	20.0	21.4	H-27	True
H-406	<None>	4	True	1,000.00	3,399.76	1,000.00	3,399.76	20.0	20.0	20.0	26.1	J-7972	20.0	26.1	J-7972	True
H-98	<None>	4	True	1,000.00	3,421.10	1,000.00	3,421.10	20.0	20.0	20.0	27.2	J-9115	20.0	27.2	J-9115	True
H-29	<None>	4	True	1,000.00	3,425.05	1,000.00	3,425.05	20.0	20.0	20.0	22.9	H-30	20.0	22.9	H-30	True
H-419	<None>	4	True	1,000.00	3,425.21	1,000.00	3,425.21	20.0	20.0	20.0	28.4	J-8239	20.0	28.4	J-8239	True
H-478	<None>	4	True	1,000.00	3,432.40	1,000.00	3,432.40	20.0	20.0	20.0	21.4	H-27	20.0	21.4	H-27	True
H-302	<None>	4	True	1,000.00	3,444.25	1,000.00	3,444.25	20.0	20.0	20.0	20.1	H-27	20.0	20.1	H-27	True
H-358	<None>	4	True	1,000.00	3,445.17	1,000.00	3,445.17	20.0	20.0	20.0	23.6	J-7329	20.0	23.6	J-7329	True
H-144	<None>	4	True	1,000.00	3,491.48	1,000.00	3,491.48	20.0	20.0	20.0	23.2	H-162	20.0	23.2	H-162	True
H-399	<None>	4	True	1,000.00	3,494.50	1,000.00	3,494.50	20.0	20.0	20.0	23.9	J-8244	20.0	23.9	J-8244	True
H-455	<None>	21	True	1,000.00	3,497.58	1,000.00	3,497.58	20.0	23.2	20.0	20.0	H-27	20.0	20.0	H-27	True
187	<None>	3	True	1,000.00	3,500.00	1,000.00	3,500.00	20.0	23.5	20.0	22.4	H-162	20.0	22.4	H-162	True
H-24	<None>	2	True	1,000.00	3,500.00	1,000.00	3,500.00	20.0	39.2	20.0	25.8	H-27	20.0	25.8	H-27	True
H-37	<None>	3	True	1,000.00	3,500.00	1,000.00	3,500.00	20.0	28.7	20.0	24.1	H-27	20.0	24.1	H-27	True
H-53	<None>	3	True	1,000.00	3,500.00	1,000.00	3,500.00	20.0	23.9	20.0	30.3	J-7045	20.0	30.3	J-7045	True
H-54	<None>	2	True	1,000.00	3,500.00	1,000.00	3,500.00	20.0	44.2	20.0	47.7	J-8855	20.0	47.7	J-8855	True
H-62	<None>	2	True	1,000.00	3,500.00	1,000.00	3,500.00	20.0	50.4	20.0	42.2	H-27	20.0	42.2	H-27	True
H-63	<None>	2	True	1,000.00	3,500.00	1,000.00	3,500.00	20.0	45.6	20.0	35.8	H-27	20.0	35.8	H-27	True
FH - 89	<None>	3	True	1,000.00	3,500.00	1,000.00	3,500.00	20.0	29.6	20.0	43.8	H-27	20.0	43.8	H-27	True
H-65	<None>	2	True	1,000.00	3,500.00	1,000.00	3,500.00	20.0	52.6	20.0	42.4	H-27	20.0	42.4	H-27	True
H-67	<None>	2	True	1,000.00	3,500.00	1,000.00	3,500.00	20.0	51.3	20.0	43.0	H-27	20.0	43.0	H-27	True
H-68	<None>	2	True	1,000.00	3,500.00	1,000.00	3,500.00	20.0	37.7	20.0	37.3	H-27	20.0	37.3	H-27	True
H-70	<None>	2	True	1,000.00	3,500.00	1,000.00	3,500.00	20.0	35.8	20.0	41.5	J-7852	20.0	41.5	J-7852	True
H-140	<None>	3	True	1,000.00	3,500.00	1,000.00	3,500.00	20.0	27.5	20.0	27.2	H-162	20.0	27.2	H-162	True
H-141	<None>	3	True	1,000.00	3,500.00	1,000.00	3,500.00	20.0	23.6	20.0	25.2	H-162	20.0	25.2	H-162	True
H-142	<None>	3	True	1,000.00	3,500.00	1,000.00	3,500.00	20.0	24.8	20.0	23.3	H-162	20.0	23.3	H-162	True
H-143	<None>	3	True	1,000.00	3,500.00	1,000.00	3,500.00	20.0	23.1	20.0	23.0	H-162	20.0	23.0	H-162	True
H-145	<None>	3	True	1,000.00	3,500.00	1,000.00	3,500.00	20.0	23.4	20.0						

H-148	<None>	3	True	1,000.00	3,500.00	1,000.00	3,500.00	20.0	24.7	20.0	22.8	H-162	20.0	22.8	H-162	True
H-149	<None>	3	True	1,000.00	3,500.00	1,000.00	3,500.00	20.0	24.8	20.0	22.9	H-162	20.0	22.9	H-162	True
H-176	<None>	3	True	1,000.00	3,500.00	1,000.00	3,500.00	20.0	29.9	20.0	23.1	H-162	20.0	23.1	H-162	True
H-182	<None>	3	True	1,000.00	3,500.00	1,000.00	3,500.00	20.0	26.0	20.0	25.3	H-179	20.0	25.3	H-179	True
H-183	<None>	3	True	1,000.00	3,500.00	1,000.00	3,500.00	20.0	24.1	20.0	24.5	H-179	20.0	24.5	H-179	True
H-231	<None>	3	True	1,000.00	3,500.00	1,000.00	3,500.00	20.0	21.3	20.0	24.8	H-179	20.0	24.8	H-179	True
H-293	<None>	2	True	1,000.00	3,500.00	1,000.00	3,500.00	20.0	44.2	20.0	43.6	H-261	20.0	43.6	H-261	True
H-295	<None>	2	True	1,000.00	3,500.00	1,000.00	3,500.00	20.0	36.5	20.0	31.1	H-27	20.0	31.1	H-27	True
H-303	<None>	2	True	1,000.00	3,500.00	1,000.00	3,500.00	20.0	37.0	20.0	30.3	H-27	20.0	30.3	H-27	True
H-304	<None>	3	True	1,000.00	3,500.00	1,000.00	3,500.00	20.0	26.3	20.0	21.2	H-27	20.0	21.2	H-27	True
H-319	<None>	3	True	1,000.00	3,500.00	1,000.00	3,500.00	20.0	28.5	20.0	22.1	H-27	20.0	22.1	H-27	True
H-328	<None>	3	True	1,000.00	3,500.00	1,000.00	3,500.00	20.0	22.1	20.0	22.1	H-27	20.0	22.1	H-27	True
H-330	<None>	2	True	1,000.00	3,500.00	1,000.00	3,500.00	20.0	28.6	20.0	34.7	J-7347	20.0	34.7	J-7347	True
H-342	<None>	2	True	1,000.00	3,500.00	1,000.00	3,500.00	20.0	59.0	20.0	46.9	H-27	20.0	46.9	H-27	True
H-344	<None>	3	True	1,000.00	3,500.00	1,000.00	3,500.00	20.0	24.5	20.0	30.2	J-7780	20.0	30.2	J-7780	True
H-346	<None>	2	True	1,000.00	3,500.00	1,000.00	3,500.00	20.0	51.8	20.0	41.6	H-27	20.0	41.6	H-27	True
H-347	<None>	2	True	1,000.00	3,500.00	1,000.00	3,500.00	20.0	33.0	20.0	41.0	J-8105	20.0	41.0	J-8105	True
H-357	<None>	2	True	1,000.00	3,500.00	1,000.00	3,500.00	20.0	53.0	20.0	44.3	H-27	20.0	44.3	H-27	True
H-380	<None>	3	True	1,000.00	3,500.00	1,000.00	3,500.00	20.0	22.5	20.0	27.6	J-7458	20.0	27.6	J-7458	True
H-398	<None>	3	True	1,000.00	3,500.00	1,000.00	3,500.00	20.0	21.4	20.0	20.2	H-27	20.0	20.2	H-27	True
FH - 88	<None>	3	True	1,000.00	3,500.00	1,000.00	3,500.00	20.0	31.9	20.0	28.1	H-27	20.0	28.1	H-27	True
H-402	<None>	2	True	1,000.00	3,500.00	1,000.00	3,500.00	20.0	38.6	20.0	45.3	H-27	20.0	45.3	H-27	True
H-404	<None>	2	True	1,000.00	3,500.00	1,000.00	3,500.00	20.0	48.2	20.0	49.5	J-8855	20.0	49.5	J-8855	True
H-408	<None>	2	True	1,000.00	3,500.00	1,000.00	3,500.00	20.0	36.8	20.0	42.5	J-7719	20.0	42.5	J-7719	True
H-410	<None>	2	True	1,000.00	3,500.00	1,000.00	3,500.00	20.0	52.5	20.0	44.7	H-27	20.0	44.7	H-27	True
H-411	<None>	2	True	1,000.00	3,500.00	1,000.00	3,500.00	20.0	43.7	20.0	40.5	H-27	20.0	40.5	H-27	True
H-412	<None>	2	True	1,000.00	3,500.00	1,000.00	3,500.00	20.0	45.3	20.0	37.4	H-27	20.0	37.4	H-27	True
H-414	<None>	2	True	1,000.00	3,500.00	1,000.00	3,500.00	20.0	39.9	20.0	39.3	H-27	20.0	39.3	H-27	True
H-416	<None>	2	True	1,000.00	3,500.00	1,000.00	3,500.00	20.0	37.4	20.0	39.0	H-27	20.0	39.0	H-27	True
H-417	<None>	3	True	1,000.00	3,500.00	1,000.00	3,500.00	20.0	28.1	20.0	34.4	H-179	20.0	34.4	H-179	True
H-422	<None>	3	True	1,000.00	3,500.00	1,000.00	3,500.00	20.0	28.3	20.0	31.6	J-7318	20.0	31.6	J-7318	True
H-429	<None>	3	True	1,000.00	3,500.00	1,000.00	3,500.00	20.0	24.8	20.0	25.4	H-179	20.0	25.4	H-179	True
H-431	<None>	3	True	1,000.00	3,500.00	1,000.00	3,500.00	20.0	21.7	20.0	27.6	J-7840	20.0	27.6	J-7840	True
H-432	<None>	2	True	1,000.00	3,500.00	1,000.00	3,500.00	20.0	34.9	20.0	33.9	H-27	20.0	33.9	H-27	True
H-433	<None>	3	True	1,000.00	3,500.00	1,000.00	3,500.00	20.0	32.7	20.0	32.2	H-27	20.0	32.2	H-27	True
H-434	<None>	3	True	1,000.00	3,500.00	1,000.00	3,500.00	20.0	34.6	20.0	29.2	H-27	20.0	29.2	H-27	True
H-435	<None>	2	True	1,000.00	3,500.00	1,000.00	3,500.00	20.0	50.6	20.0	48.8	H-27	20.0	48.8	H-27	True
H-436	<None>	2	True	1,000.00	3,500.00	1,000.00	3,500.00	20.0	60.0	20.0	49.4	J-8855	20.0	49.4	J-8855	True
H-450	<None>	2	True	1,000.00	3,500.00	1,000.00	3,500.00	20.0	51.1	20.0	43.7	H-27	20.0	43.7	H-27	True
H-481	<None>	3	True	1,000.00	3,500.00	1,000.00	3,500.00	20.0	30.3	20.0	24.7	H-162	20.0	24.7	H-162	True
	<None>	3	True	1,000.00	3,500.00	1,000.00	3,500.00	20.0	23.7	20.0	23.1	H-27	20.0	23.1	H-27	True

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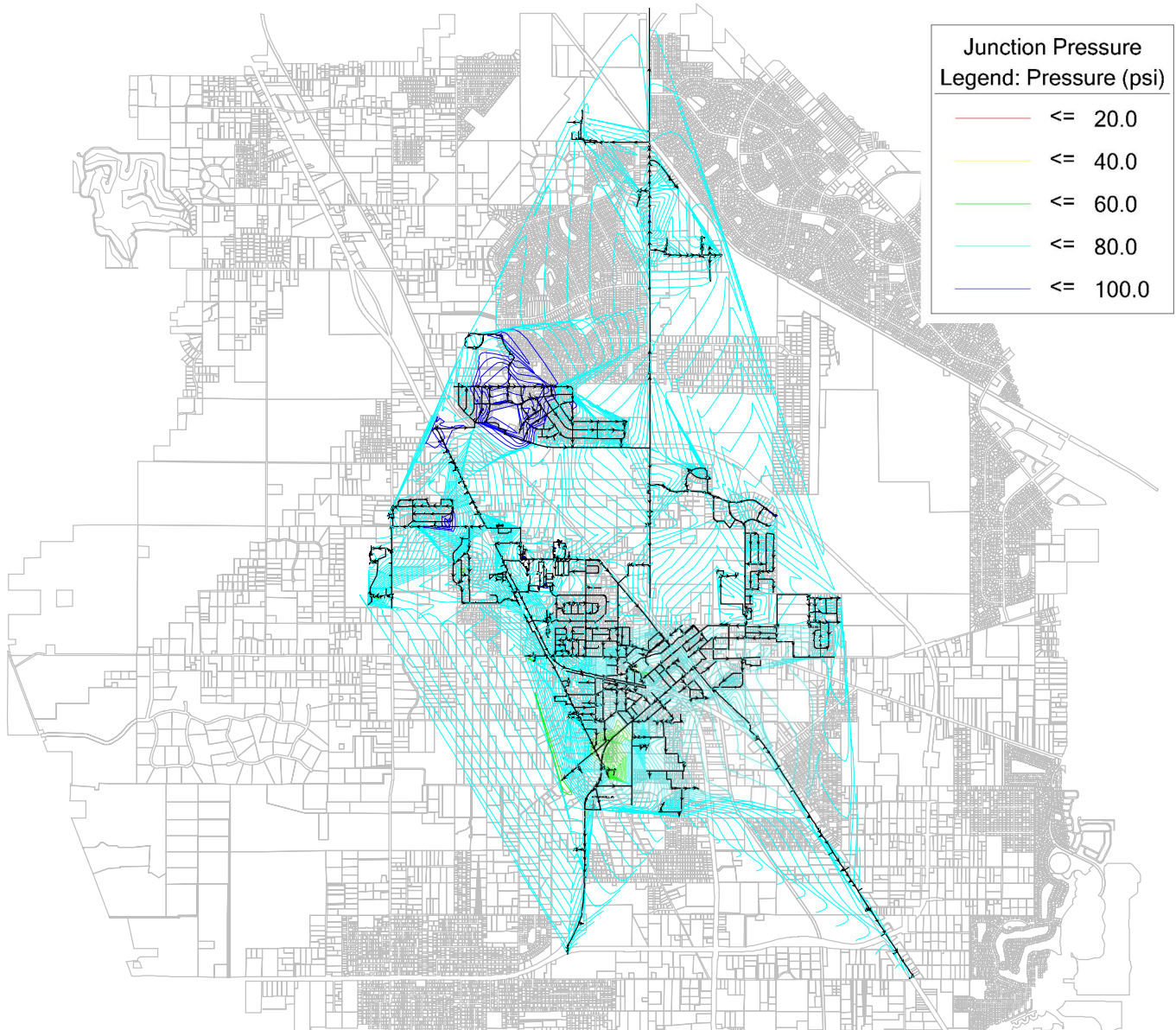
Well 5 – Lead Peak Hour Demand

Scenario: Peak Hour Flow



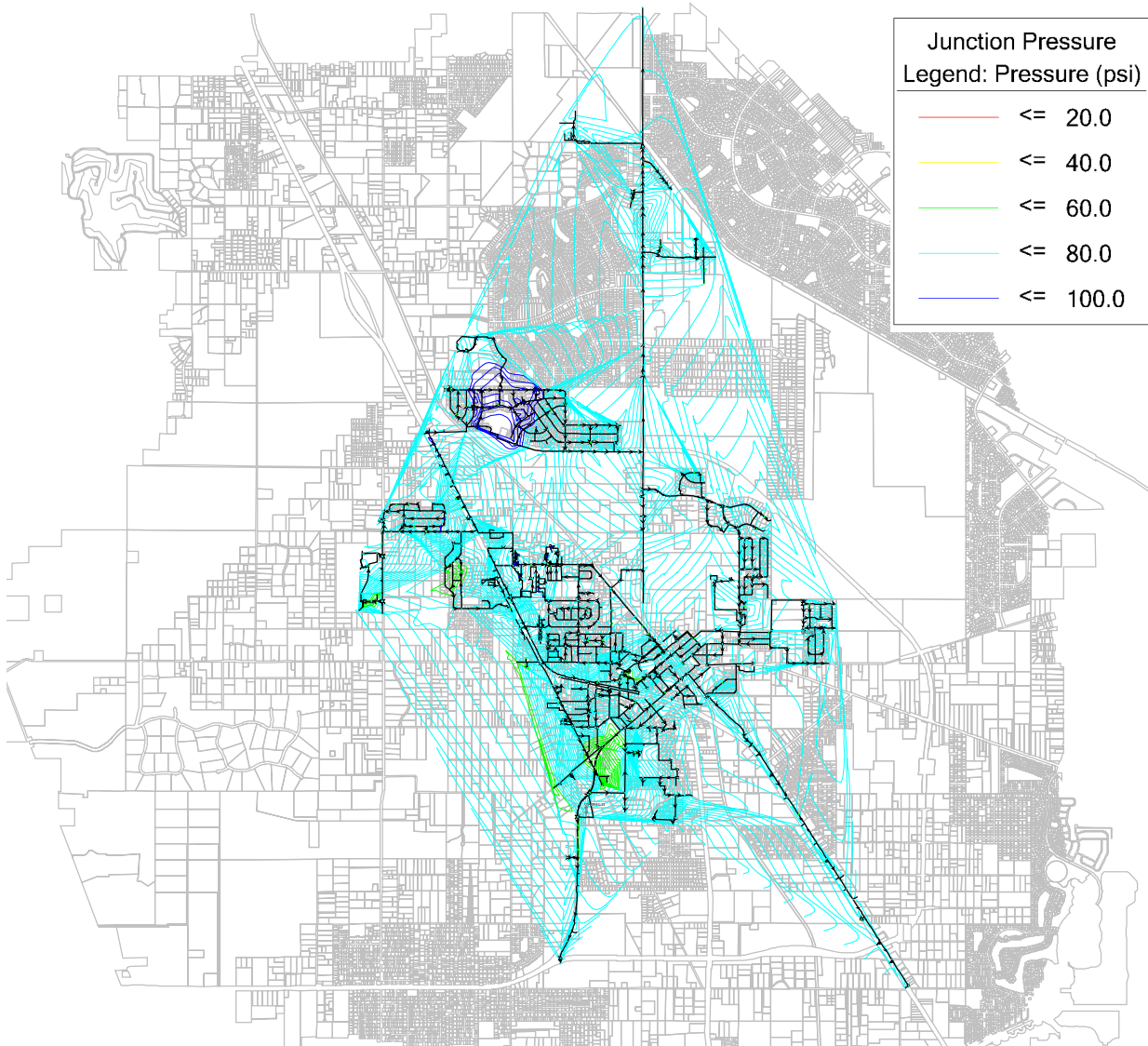
Well 6 – Lead Average Day Demand

Scenario: Average Daily Flow



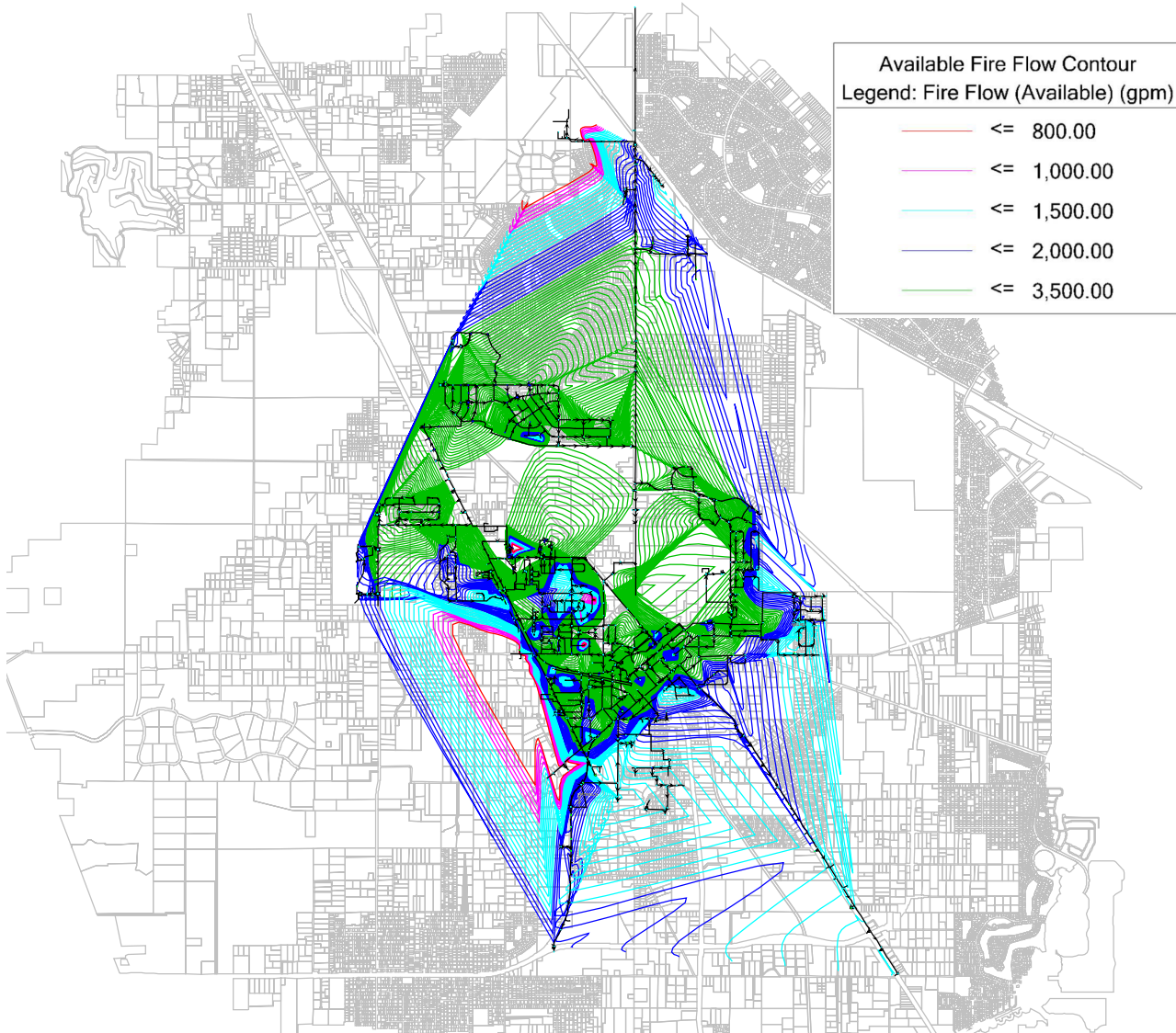
Well 6 – Lead Max Day Demand

Scenario: Max Daily Flow



Well 6 – Lead Max Day Demand + Fire Flow

Scenario: Max Daily Flow



Scenario: Max Daily Flow
Current Time Step: 0.000Hr
Fire Flow Node FlexTable: Fire Flow Report

Label	Zone	Fire Flow Iterations	Satisfies Fire Flow Constraints?	Fire Flow (Needed) (gpm)	Fire Flow (Available) (gpm)	Flow (Total Needed) (gpm)	Flow (Total Available) (gpm)	Pressure (Residual Lower Limit) (psi)	Pressure (Calculated Residual) (psi)	Pressure (Zone Lower Limit) (psi)	Pressure (Calculated Zone Lower Limit) (psi)	Junction w/ Minimum Pressure (Zone)	Pressure (System Lower Limit) (psi)	Pressure (Calculated System Lower Limit) (psi)	Junction w/ Minimum Pressure (System)	Is Fire Flow Run Balanced?
H-3	<None>	3	False	1,000.00	57.00	1,000.00	57.00	20.0	20.3	20.0	30.7	H-108	20.0	30.7	H-108	True
H-108	<None>	3	False	1,000.00	63.81	1,000.00	63.81	20.0	20.4	20.0	21.1	H-3	20.0	21.1	H-3	True
H-109	<None>	3	False	1,000.00	90.82	1,000.00	90.82	20.0	20.2	20.0	22.3	H-3	20.0	22.3	H-3	True
H-110	<None>	3	False	1,000.00	101.36	1,000.00	101.36	20.0	20.1	20.0	31.3	J-8715	20.0	31.3	J-8715	True
H-298	<None>	14	False	1,000.00	106.09	1,000.00	106.09	20.0	20.7	20.0	52.5	J-8855	20.0	52.5	J-8855	True
H-390	<None>	15	False	1,000.00	116.15	1,000.00	116.15	20.0	20.2	20.0	52.3	J-8855	20.0	52.3	J-8855	True
H-111	<None>	3	False	1,000.00	168.42	1,000.00	168.42	20.0	20.0	20.0	31.3	J-8476	20.0	31.3	J-8476	True
H-240	<None>	18	False	1,000.00	346.36	1,000.00	346.36	20.0	22.7	20.0	20.1	J-8979	20.0	20.1	J-8979	True
H-239	<None>	5	False	1,000.00	359.04	1,000.00	359.04	20.0	30.0	20.0	20.0	J-8979	20.0	20.0	J-8979	True
H-55	<None>	3	False	1,000.00	404.55	1,000.00	404.55	20.0	20.0	20.0	48.3	J-7208	20.0	48.3	J-7208	True
H-413	<None>	3	False	1,000.00	743.86	1,000.00	743.86	20.0	20.0	20.0	23.1	J-7887	20.0	23.1	J-7887	True
H-407	<None>	18	False	1,000.00	950.07	1,000.00	950.07	20.0	20.0	20.0	23.5	J-7323	20.0	23.5	J-7323	True
H-260	<None>	3	False	1,000.00	964.45	1,000.00	964.45	20.0	20.0	20.0	21.4	J-7966	20.0	21.4	J-7966	True
H-454	<None>	18	False	1,000.00	984.20	1,000.00	984.20	20.0	20.0	20.0	21.6	J-8221	20.0	21.6	J-8221	True
H-397	<None>	18	False	1,000.00	999.51	1,000.00	999.51	20.0	20.0	20.0	21.2	J-8670	20.0	21.2	J-8670	True
H-258	<None>	2	True	1,000.00	1,019.88	1,000.00	1,019.88	20.0	20.0	20.0	20.0	J-9021	20.0	20.0	J-9021	True
H-351	<None>	2	True	1,000.00	1,037.11	1,000.00	1,037.11	20.0	20.0	20.0	21.5	J-7757	20.0	21.5	J-7757	True
H-51	<None>	2	True	1,000.00	1,047.06	1,000.00	1,047.06	20.0	20.0	20.0	21.1	J-7228	20.0	21.1	J-7228	True
H-257	<None>	5	True	1,000.00	1,074.86	1,000.00	1,074.86	20.0	22.0	20.0	20.0	J-8855	20.0	20.0	J-8855	True
H-355	<None>	3	True	1,000.00	1,088.85	1,000.00	1,088.85	20.0	20.0	20.0	20.6	J-8909	20.0	20.6	J-8909	True
H-372	<None>	12	True	1,000.00	1,114.85	1,000.00	1,114.85	20.0	21.1	20.0	20.0	J-8799	20.0	20.0	J-8799	True
H-259	<None>	5	True	1,000.00	1,115.37	1,000.00	1,115.37	20.0	26.4	20.0	20.0	J-8855	20.0	20.0	J-8855	True
H-210	<None>	3	True	1,000.00	1,136.51	1,000.00	1,136.51	20.0	20.0	20.0	21.3	J-7739	20.0	21.3	J-7739	True
H-209	<None>	3	True	1,000.00	1,170.77	1,000.00	1,170.77	20.0	20.0	20.0	21.7	J-7713	20.0	21.7	J-7713	True
H-211	<None>	3	True	1,000.00	1,175.82	1,000.00	1,175.82	20.0	20.0	20.0	21.5	J-7598	20.0	21.5	J-7598	True
H-168	<None>	3	True	1,000.00	1,191.81	1,000.00	1,191.81	20.0	20.0	20.0	28.5	J-8823	20.0	28.5	J-8823	True
H-373	<None>	11	True	1,000.00	1,213.06	1,000.00	1,213.06	20.0	20.0	20.0	20.2	J-8975	20.0	20.2	J-8975	True
FH - 47	<None>	3	True	1,000.00	1,213.77	1,000.00	1,213.77	20.0	20.0	20.0	25.6	J-7875	20.0	25.6	J-7875	True
H-195	<None>	20	True	1,000.00	1,215.82	1,000.00	1,215.82	20.0	20.2	20.0	20.0	J-9023	20.0	20.0	J-9023	True
H-360	<None>	3	True	1,000.00	1,239.20	1,000.00	1,239.20	20.0	20.0	20.0	21.5	J-7862	20.0	21.5	J-7862	True
FH - 48	<None>	3	True	1,000.00	1,244.35	1,000.00	1,244.35	20.0	20.0	20.0	25.8	J-7837	20.0	25.8	J-7837	True
H-391	<None>	3	True	1,000.00	1,257.85	1,000.00	1,257.85	20.0	20.0	20.0	24.0	H-390	20.0	24.0	H-390	True
H-31	<None>	14	True	1,000.00	1,260.00	1,000.00	1,260.00	20.0	24.3	20.0	20.0	J-8799	20.0	20.0	J-8799	True
H-213	<None>	3	True	1,000.00	1,263.33	1,000.00	1,263.33	20.0	20.0	20.0	21.8	J-7849	20.0	21.8	J-7849	True
H-112	<None>	20	True	1,000.00	1,273.92	1,000.00	1,273.92	20.0	20.1	20.0	20.0	H-111	20.0	20.0	H-111	True
H-38	<None>	3	True	1,000.00	1,274.62	1,000.00	1,274.62	20.0	20.0	20.0	25.6	J-8669	20.0	25.6	J-8669	True
H-400	<None>	3	True	1,000.00	1,283.10	1,000.00	1,283.10	20.0	20.0	20.0	21.4	J-8182	20.0	21.4	J-8182	True
FH - 440	<None>	3	True	1,000.00	1,289.10	1,000.00	1,289.10	20.0	20.0	20.0	30.2	H-314	20.0	30.2	H-314	True
H-265	<None>	3	True	1,000.00	1,291.00	1,000.00	1,291.00	20.0	20.0	20.0	22.2	J-7201	20.0	22.2	J-7201	True
H-8	<None>	3	True	1,000.00	1,309.90	1,000.00	1,309.90	20.0	20.0	20.0	21.8	J-7703	20.0	21.8	J-7703	True
H-113	<None>	3	True	1,000.00	1,323.60	1,000.00	1,323.60	20.0	20.0	20.0	21.0	H-111	20.0	21.0	H-111	True
H-23	<None>	3	True	1,000.00	1,330.40	1,000.00	1,330.40	20.0	20.0	20.0	22.0	J-7986	20.0	22.0	J-7986	True
H-306	<None>	3	True	1,000.00	1,346.96	1,000.00	1,346.96	20.0	20.0	20.0	21.2	H-314	20.0	21.2	H-314	True
H-52	<None>	3	True	1,000.00	1,348.34	1,000.00	1,348.34	20.0	20.0	20.0	21.9	J-8036	20.0	21.9	J-8036	True
H-314	<None>	3	True	1,000.00	1,348.84	1,000.00	1,348.84	20.0	20.0	20.0	21.3	H-475	20.0	21.3	H-475	True
H-69	<None>	3	True	1,000.00	1,349.96	1,000.00	1,349.96	20.0	20.0	20.0	21.1	J-8524	20.0	21.1	J-8524	True
H-212	<None>	3	True	1,000.00	1,350.17	1,000.00	1,350.17	20.0	20.0	20.0	21.7	J-7675	20.0	21.7	J-7675	True
H-453	<None>	3	True	1,000.00	1,353.94	1,000.00	1,353.94	20.0	20.0	20.0	21.3	H-454	20.0	21.3	H-454	True
FH - 438	<None>	3	True	1,000.00	1,355.39	1,000.00	1,355.39	20.0	20.0	20.0	28.4	H-314	20.0	28.4	H-314	True
H-475	<None>	3	True	1,000.00	1,356.69	1,000.00	1,356.69	20.0	20.0	20.0	20.7	H-314	20.0	20.7	H-314	True
H-122	<None>	3	True	1,000.00	1,359.55	1,000.00	1,359.55	20.0	20.0	20.0	22.5	J-9035	20.0	22.5	J-9035	True
H-316	<None>	20	True	1,000.00	1,364.49	1,000.00	1,364.49	20.0	20.1	20.0	20.0	H-314	20.0	20.0	H-314	True
H-459	<None>	3	True	1,000.00	1,374.32	1,000.00	1,374.32	20.0	20.0	20.0	21.2	H-314	20.0	21.2	H-314	True
H-474	<None>	3	True	1,000.00	1,386.82	1,000.00	1,386.82	20.0	20.0	20.0	20.6	H-314	20.0	20.6	H-314	True
H-460	<None>	3	True	1,000.00	1,411.39	1,000.00	1,411.39	20.0	20.0	20.0	21.3	H-314	20.0	21.3	H-314	True
H-473	<None>	20	True	1,000.00	1,427.06	1,000.00	1,427.06	20.0	21.4	20.0	20.0	H-314	20.0	20.0	H-314	True
H-221	<None>	3	True	1,000.00	1,437.06	1,000.00	1,437.06	20.0	20.0	20.0	21.7	J-8255	20.0	21.7	J-8255	True
H-359	<None>	3	True	1,000.00	1,449.23	1,000.00	1,449.23	20.0	20.0	20.0	22.0	J-7931	20.0	22.0	J-7931	True
H-114	<None>	3	True	1,000.00	1,449.63	1,000.00	1,449.63	20.0	20.0	20.0	20.9	H-111	20.0	20.9	H-111	True
H-40	<None>	5	True	1,000.00	1,462.55	1,000.00	1,462.55	20.0	26.3	20.0	20.0	H-390	20.0	20.0	H-390	True
H-424	<None>	3	True	1,000.00	1,479.26	1,000.00	1,479.26	20.0	20.0	20.0	21.9	J-8002	20.0	21.9	J-8002	True
H-307	<None>	20	True	1,000.00	1,479.38	1,000.00	1,479.38	20.0	20.9	20.0	20.0	H-314	20.0	20.0	H-314	True
H-421	<None>	3	True	1,000.00	1,498.84	1,000.00	1,498.84	20.0	20.0	20.0	22.0	J-8004	20.0	22.0	J-8004	True

H-121	<None>	20	True	1,000.00	1,499.08	1,000.00	1,499.08	20.0	20.3	20.0	20.0	H-122	20.0	20.0	H-122	True
H-308	<None>	5	True	1,000.00	1,501.01	1,000.00	1,501.01	20.0	22.6	20.0	20.0	H-314	20.0	20.0	H-314	True
H-235	<None>	3	True	1,000.00	1,502.12	1,000.00	1,502.12	20.0	20.0	20.0	22.5	J-8077	20.0	22.5	J-8077	True
H-205	<None>	3	True	1,000.00	1,502.38	1,000.00	1,502.38	20.0	20.0	20.0	22.2	J-8041	20.0	22.2	J-8041	True
H-208	<None>	3	True	1,000.00	1,506.69	1,000.00	1,506.69	20.0	20.0	20.0	21.3	H-212	20.0	21.3	H-212	True
H-204	<None>	3	True	1,000.00	1,510.99	1,000.00	1,510.99	20.0	20.0	20.0	21.9	J-7520	20.0	21.9	J-7520	True
H-461	<None>	5	True	1,000.00	1,534.13	1,000.00	1,534.13	20.0	22.9	20.0	20.0	H-314	20.0	20.0	H-314	True
H-95	<None>	3	True	1,000.00	1,535.41	1,000.00	1,535.41	20.0	20.0	20.0	22.3	J-8010	20.0	22.3	J-8010	True
H-313	<None>	5	True	1,000.00	1,537.54	1,000.00	1,537.54	20.0	25.5	20.0	20.0	H-314	20.0	20.0	H-314	True
H-1	<None>	3	True	1,000.00	1,540.89	1,000.00	1,540.89	20.0	20.0	20.0	21.9	J-7841	20.0	21.9	J-7841	True
H-18	<None>	3	True	1,000.00	1,554.45	1,000.00	1,554.45	20.0	20.0	20.0	21.8	J-7515	20.0	21.8	J-7515	True
H-21	<None>	3	True	1,000.00	1,560.62	1,000.00	1,560.62	20.0	20.0	20.0	39.9	J-9126	20.0	39.9	J-9126	True
H-201	<None>	3	True	1,000.00	1,564.48	1,000.00	1,564.48	20.0	20.0	20.0	22.2	J-8048	20.0	22.2	J-8048	True
H-118	<None>	3	True	1,000.00	1,568.41	1,000.00	1,568.41	20.0	20.0	20.0	23.2	J-8360	20.0	23.2	J-8360	True
H-203	<None>	3	True	1,000.00	1,569.30	1,000.00	1,569.30	20.0	20.0	20.0	21.2	H-204	20.0	21.2	H-204	True
H-462	<None>	5	True	1,000.00	1,570.04	1,000.00	1,570.04	20.0	22.9	20.0	20.0	H-314	20.0	20.0	H-314	True
H-486	<None>	3	True	1,000.00	1,570.31	1,000.00	1,570.31	20.0	20.0	20.0	32.2	H-314	20.0	32.2	H-314	True
H-133	<None>	3	True	1,000.00	1,574.62	1,000.00	1,574.62	20.0	20.0	20.0	26.7	J-8646	20.0	26.7	J-8646	True
H-202	<None>	3	True	1,000.00	1,575.63	1,000.00	1,575.63	20.0	20.0	20.0	22.0	J-7798	20.0	22.0	J-7798	True
H-206	<None>	3	True	1,000.00	1,575.71	1,000.00	1,575.71	20.0	20.0	20.0	21.6	H-204	20.0	21.6	H-204	True
H-150	<None>	3	True	1,000.00	1,576.36	1,000.00	1,576.36	20.0	20.0	20.0	30.4	J-8823	20.0	30.4	J-8823	True
FH - 402	<None>	3	True	1,000.00	1,576.56	1,000.00	1,576.56	20.0	20.0	20.0	26.8	J-8158	20.0	26.8	J-8158	True
H-471	<None>	5	True	1,000.00	1,582.85	1,000.00	1,582.85	20.0	22.9	20.0	20.0	H-314	20.0	20.0	H-314	True
H-207	<None>	3	True	1,000.00	1,585.09	1,000.00	1,585.09	20.0	20.0	20.0	21.8	J-7431	20.0	21.8	J-7431	True
H-368	<None>	13	True	1,000.00	1,593.53	1,000.00	1,593.53	20.0	20.0	20.0	20.9	J-8975	20.0	20.9	J-8975	True
259	<None>	20	True	1,000.00	1,595.51	1,000.00	1,595.51	20.0	20.3	20.0	20.0	J-9116	20.0	20.0	J-9116	True
H-20	<None>	3	True	1,000.00	1,605.04	1,000.00	1,605.04	20.0	20.0	20.0	22.8	J-8264	20.0	22.8	J-8264	True
H-309	<None>	20	True	1,000.00	1,611.86	1,000.00	1,611.86	20.0	20.7	20.0	20.0	H-314	20.0	20.0	H-314	True
H-115	<None>	20	True	1,000.00	1,611.87	1,000.00	1,611.87	20.0	20.3	20.0	20.0	H-111	20.0	20.0	H-111	True
H-90	<None>	3	True	1,000.00	1,616.68	1,000.00	1,616.68	20.0	20.0	20.0	22.4	J-8027	20.0	22.4	J-8027	True
H-194	<None>	20	True	1,000.00	1,619.55	1,000.00	1,619.55	20.0	20.6	20.0	20.0	J-9023	20.0	20.0	J-9023	True
H-229	<None>	3	True	1,000.00	1,628.77	1,000.00	1,628.77	20.0	20.0	20.0	22.1	J-7378	20.0	22.1	J-7378	True
H-469	<None>	5	True	1,000.00	1,634.24	1,000.00	1,634.24	20.0	23.3	20.0	20.0	H-314	20.0	20.0	H-314	True
H-27	<None>	13	True	1,000.00	1,636.51	1,000.00	1,636.51	20.0	20.0	20.0	22.0	J-7658	20.0	22.0	J-7658	True
H-337	<None>	3	True	1,000.00	1,639.57	1,000.00	1,639.57	20.0	20.0	20.0	22.0	J-7729	20.0	22.0	J-7729	True
H-253	<None>	3	True	1,000.00	1,640.34	1,000.00	1,640.34	20.0	20.0	20.0	22.2	J-8166	20.0	22.2	J-8166	True
H-84	<None>	3	True	1,000.00	1,644.65	1,000.00	1,644.65	20.0	20.0	20.0	22.2	J-8000	20.0	22.2	J-8000	True
H-11	<None>	3	True	1,000.00	1,652.07	1,000.00	1,652.07	20.0	20.0	20.0	24.6	J-7161	20.0	24.6	J-7161	True
H-255	<None>	3	True	1,000.00	1,667.55	1,000.00	1,667.55	20.0	20.0	20.0	20.3	H-253	20.0	20.3	H-253	True
FH - 403	<None>	3	True	1,000.00	1,668.20	1,000.00	1,668.20	20.0	20.0	20.0	22.3	FH - 402	20.0	22.3	FH - 402	True
H-124	<None>	3	True	1,000.00	1,669.34	1,000.00	1,669.34	20.0	20.0	20.0	23.0	J-8306	20.0	23.0	J-8306	True
H-254	<None>	3	True	1,000.00	1,672.02	1,000.00	1,672.02	20.0	20.0	20.0	20.1	H-253	20.0	20.1	H-253	True
H-463	<None>	20	True	1,000.00	1,677.31	1,000.00	1,677.31	20.0	20.6	20.0	20.0	H-314	20.0	20.0	H-314	True
H-252	<None>	3	True	1,000.00	1,679.53	1,000.00	1,679.53	20.0	20.0	20.0	21.1	H-253	20.0	21.1	H-253	True
H-215	<None>	3	True	1,000.00	1,682.98	1,000.00	1,682.98	20.0	20.0	20.0	22.1	J-7682	20.0	22.1	J-7682	True
H-468	<None>	20	True	1,000.00	1,685.32	1,000.00	1,685.32	20.0	20.8	20.0	20.0	H-314	20.0	20.0	H-314	True
H-251	<None>	3	True	1,000.00	1,691.30	1,000.00	1,691.30	20.0	20.0	20.0	21.3	FH - 402	20.0	21.3	FH - 402	True
H-117	<None>	3	True	1,000.00	1,695.64	1,000.00	1,695.64	20.0	20.0	20.0	26.7	H-118	20.0	26.7	H-118	True
H-50	<None>	3	True	1,000.00	1,696.53	1,000.00	1,696.53	20.0	20.0	20.0	22.2	J-7845	20.0	22.2	J-7845	True
H-246	<None>	3	True	1,000.00	1,701.54	1,000.00	1,701.54	20.0	20.0	20.0	22.3	FH - 402	20.0	22.3	FH - 402	True
H-323	<None>	12	True	1,000.00	1,702.35	1,000.00	1,702.35	20.0	20.0	20.0	31.4	J-8084	20.0	31.4	J-8084	True
H-74	<None>	3	True	1,000.00	1,705.17	1,000.00	1,705.17	20.0	20.0	20.0	21.6	J-8989	20.0	21.6	J-8989	True
H-464	<None>	3	True	1,000.00	1,706.76	1,000.00	1,706.76	20.0	20.0	20.0	21.7	H-314	20.0	21.7	H-314	True
H-245	<None>	3	True	1,000.00	1,712.99	1,000.00	1,712.99	20.0	20.0	20.0	22.8	H-246	20.0	22.8	H-246	True
H-369	<None>	4	True	1,000.00	1,714.09	1,000.00	1,714.09	20.0	20.0	20.0	22.1	J-7721	20.0	22.1	J-7721	True
H-137	<None>	3	True	1,000.00	1,715.59	1,000.00	1,715.59	20.0	20.0	20.0	22.8	J-8194	20.0	22.8	J-8194	True
H-249	<None>	5	True	1,000.00	1,720.65	1,000.00	1,720.65	20.0	25.6	20.0	20.0	FH - 402	20.0	20.0	FH - 402	True
H-250	<None>	5	True	1,000.00	1,720.65	1,000.00	1,720.65	20.0	22.8	20.0	20.0	FH - 402	20.0	20.0	FH - 402	True
H-329	<None>	3	True	1,000.00	1,721.21	1,000.00	1,721.21	20.0	20.0	20.0	22.1	J-7551	20.0	22.1	J-7551	True
H-131	<None>	3	True	1,000.00	1,722.74	1,000.00	1,722.74	20.0	20.0	20.0	21.7	J-8644	20.0	21.7	J-8644	True
H-256	<None>	3	True	1,000.00	1,723.95	1,000.00	1,723.95	20.0	20.0	20.0	21.4	H-246	20.0	21.4	H-246	True
FH - 142	<None>	3	True	1,000.00	1,724.58	1,000.00	1,724.58	20.0	20.0	20.0	26.1	H-117	20.0	26.1	H-117	True
H-426	<None>	3	True	1,000.00	1,728.76	1,000.00	1,728.76	20.0	20.0	20.0	21.4	H-52	20.0	21.4	H-52	True
H-470	<None>	5	True	1,000.00	1,739.72	1,000.00	1,739.72	20.0	21.3	20.0	20.0	H-314	20.0	20.0	H-314	True
H-382	<None>	3	True	1,000.00	1,745.85	1,000.00	1,745.85	20.0	20.0	20.0	22.8	J-7829	20.0	22.8	J-7829	True
H-326	<None>	3	True	1,000.00	1,749.81	1,000.00	1,749.81	20.0	20.0	20.0	22.2	J-7697	20.0	22.2	J-7697	True
104	<None>	3	True	1,000.00	1,750.13	1,000.00	1,750.13	20.0	20.0	20.0	23.0	J-9155	20.0	23.0	J-9155	True
H-336	<None>	3	True	1,000.00	1,756.35	1,000.00	1,756.35	20.0	20.0	20.0	22.3	J-7892	20.0	22.3	J-7892	True
H-244	<None>	3	True	1,000.00	1,758.37	1,000.00	1,758.37	20.0	20.0	20.0	21.6	H-245	20.0	21.6	H-245	True
H-19	<None>	3	True	1,000.00	1,765.23	1,000.00	1,765.23	20.0	20.0	20.0	20.8	J-8852	20.0	20.8	J-8852	True
H-219	<None>	3	True	1,000.00	1,767.05	1,000.00	1,767.05	20.0	20.0	20.0	21.9	J-8144	20.0	21.9	J-8144	True
H-312	<None>	3	True	1,000.00	1,770.26	1,000.00	1,770.26	20.0	20.0	20.0	21.3	H-314	20.0	21.3	H-314	True
H-465	<None>	3	True	1,000.00	1,770.42	1,000.00	1,770.42	20.0	20.0	20.0	21.5	H-314	20.0	21.5	H-314	True
H-485	<None>	12	True	1,000.00	1,771.08	1,000.00	1,771.08	20.0	20.0	20.0	25.6	J-8708	20.0	25.6	J-8708	True
H-136</																

	<None>	4	True	1,000.00	1,774.97	1,000.00	1,774.97	20.0	20.0	20.0	22.0	J-7545	20.0	22.0	J-7545	True
H-243	<None>	3	True	1,000.00	1,782.64	1,000.00	1,782.64	20.0	20.0	20.0	22.2	H-245	20.0	22.2	H-245	True
H-483	<None>	12	True	1,000.00	1,782.84	1,000.00	1,782.84	20.0	20.0	20.0	23.8	J-8335	20.0	23.8	J-8335	True
H-116	<None>	3	True	1,000.00	1,788.15	1,000.00	1,788.15	20.0	20.0	20.0	20.9	H-111	20.0	20.9	H-111	True
H-242	<None>	3	True	1,000.00	1,801.72	1,000.00	1,801.72	20.0	20.0	20.0	22.2	H-243	20.0	22.2	H-243	True
H-135	<None>	3	True	1,000.00	1,807.16	1,000.00	1,807.16	20.0	20.0	20.0	22.6	J-9026	20.0	22.6	J-9026	True
H-26	<None>	4	True	1,000.00	1,808.65	1,000.00	1,808.65	20.0	20.0	20.0	22.7	J-8100	20.0	22.7	J-8100	True
H-132	<None>	3	True	1,000.00	1,810.69	1,000.00	1,810.69	20.0	20.0	20.0	22.3	J-7874	20.0	22.3	J-7874	True
H-466	<None>	3	True	1,000.00	1,851.07	1,000.00	1,851.07	20.0	20.0	20.0	21.7	H-314	20.0	21.7	H-314	True
H-349	<None>	3	True	1,000.00	1,851.29	1,000.00	1,851.29	20.0	20.0	20.0	51.1	J-8855	20.0	51.1	J-8855	True
H-320	<None>	12	True	1,000.00	1,851.76	1,000.00	1,851.76	20.0	20.0	20.0	22.3	J-7615	20.0	22.3	J-7615	True
H-467	<None>	3	True	1,000.00	1,853.27	1,000.00	1,853.27	20.0	20.0	20.0	20.1	H-314	20.0	20.1	H-314	True
FH - 141	<None>	3	True	1,000.00	1,856.47	1,000.00	1,856.47	20.0	20.0	20.0	21.6	H-117	20.0	21.6	H-117	True
H-311	<None>	3	True	1,000.00	1,858.73	1,000.00	1,858.73	20.0	20.0	20.0	22.3	J-7483	20.0	22.3	J-7483	True
H-45	<None>	3	True	1,000.00	1,873.95	1,000.00	1,873.95	20.0	20.0	20.0	22.1	J-7917	20.0	22.1	J-7917	True
H-28	<None>	4	True	1,000.00	1,875.53	1,000.00	1,875.53	20.0	20.0	20.0	22.4	H-27	20.0	22.4	H-27	True
H-187	<None>	3	True	1,000.00	1,880.45	1,000.00	1,880.45	20.0	20.0	20.0	21.8	J-7166	20.0	21.8	J-7166	True
H-41	<None>	21	True	1,000.00	1,885.49	1,000.00	1,885.49	20.0	20.9	20.0	20.0	J-8921	20.0	20.0	J-8921	True
H-12	<None>	3	True	1,000.00	1,888.06	1,000.00	1,888.06	20.0	20.0	20.0	23.5	J-8284	20.0	23.5	J-8284	True
H-324	<None>	4	True	1,000.00	1,888.94	1,000.00	1,888.94	20.0	20.0	20.0	26.9	H-325	20.0	26.9	H-325	True
H-127	<None>	21	True	1,000.00	1,889.27	1,000.00	1,889.27	20.0	20.3	20.0	20.0	J-8879	20.0	20.0	J-8879	True
H-361	<None>	4	True	1,000.00	1,890.13	1,000.00	1,890.13	20.0	20.0	20.0	22.7	J-7646	20.0	22.7	J-7646	True
H-236	<None>	3	True	1,000.00	1,900.21	1,000.00	1,900.21	20.0	20.0	20.0	23.8	J-8280	20.0	23.8	J-8280	True
H-482	<None>	3	True	1,000.00	1,908.43	1,000.00	1,908.43	20.0	20.0	20.0	22.6	J-7600	20.0	22.6	J-7600	True
H-134	<None>	5	True	1,000.00	1,908.77	1,000.00	1,908.77	20.0	22.9	20.0	20.0	H-136	20.0	20.0	H-136	True
H-325	<None>	4	True	1,000.00	1,918.92	1,000.00	1,918.92	20.0	20.0	20.0	22.2	J-8708	20.0	22.2	J-8708	True
H-234	<None>	21	True	1,000.00	1,922.04	1,000.00	1,922.04	20.0	21.3	20.0	20.0	H-235	20.0	20.0	H-235	True
H-104	<None>	5	True	1,000.00	1,933.27	1,000.00	1,933.27	20.0	24.4	20.0	20.0	H-117	20.0	20.0	H-117	True
H-338	<None>	3	True	1,000.00	1,934.89	1,000.00	1,934.89	20.0	20.0	20.0	22.9	J-7971	20.0	22.9	J-7971	True
H-310	<None>	3	True	1,000.00	1,939.86	1,000.00	1,939.86	20.0	20.0	20.0	21.2	H-311	20.0	21.2	H-311	True
H-488	<None>	12	True	1,000.00	1,941.26	1,000.00	1,941.26	20.0	20.0	20.0	21.0	J-9066	20.0	21.0	J-9066	True
H-57	<None>	3	True	1,000.00	1,942.13	1,000.00	1,942.13	20.0	20.0	20.0	22.6	J-8896	20.0	22.6	J-8896	True
H-420	<None>	3	True	1,000.00	1,942.69	1,000.00	1,942.69	20.0	20.0	20.0	24.0	J-9125	20.0	24.0	J-9125	True
H-22	<None>	3	True	1,000.00	1,942.85	1,000.00	1,942.85	20.0	20.0	20.0	25.5	J-8488	20.0	25.5	J-8488	True
H-42	<None>	3	True	1,000.00	1,947.10	1,000.00	1,947.10	20.0	20.0	20.0	22.4	J-7711	20.0	22.4	J-7711	True
H-393	<None>	3	True	1,000.00	1,949.01	1,000.00	1,949.01	20.0	20.0	20.0	22.4	J-7751	20.0	22.4	J-7751	True
H-267	<None>	12	True	1,000.00	1,950.76	1,000.00	1,950.76	20.0	20.0	20.0	21.1	J-7436	20.0	21.1	J-7436	True
H-321	<None>	4	True	1,000.00	1,951.74	1,000.00	1,951.74	20.0	20.0	20.0	20.1	J-8708	20.0	20.1	J-8708	True
H-365	<None>	4	True	1,000.00	1,955.49	1,000.00	1,955.49	20.0	20.0	20.0	20.2	H-27	20.0	20.2	H-27	True
H-130	<None>	3	True	1,000.00	1,960.63	1,000.00	1,960.63	20.0	20.0	20.0	20.2	H-136	20.0	20.2	H-136	True
H-262	<None>	3	True	1,000.00	1,978.65	1,000.00	1,978.65	20.0	20.0	20.0	23.9	J-8262	20.0	23.9	J-8262	True
H-91	<None>	3	True	1,000.00	1,978.91	1,000.00	1,978.91	20.0	20.0	20.0	22.6	J-7864	20.0	22.6	J-7864	True
H-129	<None>	3	True	1,000.00	1,981.06	1,000.00	1,981.06	20.0	20.0	20.0	20.7	H-136	20.0	20.7	H-136	True
H-106	<None>	5	True	1,000.00	1,983.75	1,000.00	1,983.75	20.0	28.9	20.0	20.0	H-117	20.0	20.0	H-117	True
H-352	<None>	3	True	1,000.00	1,995.20	1,000.00	1,995.20	20.0	20.0	20.0	22.5	J-7784	20.0	22.5	J-7784	True
H-82	<None>	3	True	1,000.00	2,002.90	1,000.00	2,002.90	20.0	20.0	20.0	22.3	H-420	20.0	22.3	H-420	True
H-241	<None>	6	True	1,000.00	2,013.94	1,000.00	2,013.94	20.0	31.8	20.0	20.0	J-8855	20.0	20.0	J-8855	True
H-105	<None>	5	True	1,000.00	2,019.38	1,000.00	2,019.38	20.0	27.7	20.0	20.0	H-117	20.0	20.0	H-117	True
H-193	<None>	3	True	1,000.00	2,019.91	1,000.00	2,019.91	20.0	20.0	20.0	22.9	J-8014	20.0	22.9	J-8014	True
H-43	<None>	3	True	1,000.00	2,020.05	1,000.00	2,020.05	20.0	20.0	20.0	22.6	J-7764	20.0	22.6	J-7764	True
H-191	<None>	3	True	1,000.00	2,025.04	1,000.00	2,025.04	20.0	20.0	20.0	22.9	J-8018	20.0	22.9	J-8018	True
H-268	<None>	12	True	1,000.00	2,026.41	1,000.00	2,026.41	20.0	20.0	20.0	20.2	H-267	20.0	20.2	H-267	True
H-217	<None>	3	True	1,000.00	2,027.82	1,000.00	2,027.82	20.0	20.0	20.0	22.5	J-7904	20.0	22.5	J-7904	True
H-128	<None>	21	True	1,000.00	2,042.03	1,000.00	2,042.03	20.0	21.3	20.0	20.0	H-136	20.0	20.0	H-136	True
H-61	<None>	3	True	1,000.00	2,043.96	1,000.00	2,043.96	20.0	20.0	20.0	24.5	J-8857	20.0	24.5	J-8857	True
H-88	<None>	3	True	1,000.00	2,049.37	1,000.00	2,049.37	20.0	20.0	20.0	23.0	J-8020	20.0	23.0	J-8020	True
H-126	<None>	3	True	1,000.00	2,050.52	1,000.00	2,050.52	20.0	20.0	20.0	22.6	H-117	20.0	22.6	H-117	True
H-266	<None>	30	True	1,000.00	2,058.99	1,000.00	2,058.99	20.0	20.8	20.0	20.0	H-267	20.0	20.0	H-267	True
H-437	<None>	12	True	1,000.00	2,061.57	1,000.00	2,061.57	20.0	20.0	20.0	30.2	J-7928	20.0	30.2	J-7928	True
H-125	<None>	5	True	1,000.00	2,067.01	1,000.00	2,067.01	20.0	24.3	20.0	20.0	H-117	20.0	20.0	H-117	True
H-273	<None>	12	True	1,000.00	2,078.21	1,000.00	2,078.21	20.0	20.0	20.0	22.7	J-7686	20.0	22.7	J-7686	True
H-101	<None>	5	True	1,000.00	2,088.07	1,000.00	2,088.07	20.0	22.3	20.0	20.0	H-136	20.0	20.0	H-136	True
FH - 70	<None>	3	True	1,000.00	2,098.10	1,000.00	2,098.10	20.0	20.0	20.0	36.5	J-7847	20.0	36.5	J-7847	True
H-162	<None>	12	True	1,000.00	2,102.22	1,000.00	2,102.22	20.0	20.0	20.0	22.7	J-7213	20.0	22.7	J-7213	True
H-86	<None>	3	True	1,000.00	2,119.38	1,000.00	2,119.38	20.0	20.0	20.0	23.2	J-8016	20.0	23.2	J-8016	True
H-171	<None>	12	True	1,000.00	2,123.82	1,000.00	2,123.82	20.0	20.0	20.0	22.7	J-7801	20.0	22.7	J-7801	True
H-384	<None>	3	True	1,000.00	2,124.00	1,000.00	2,124.00	20.0	20.0	20.0	21.3	J-8216	20.0	21.3	J-8216	True
H-425	<None>	3	True	1,000.00	2,133.59	1,000.00	2,133.59	20.0	20.0	20.0	22.3	J-7385	20.0	22.3	J-7385	True
H-272	<None>	12	True	1,000.00	2,137.28	1,000.00	2,137.28	20.0	20.0	20.0	21.9	J-7207	20.0	21.9	J-7207	True
H-186	<None>	3	True	1,000.00	2,139.95	1,000.00	2,139.95	20.0	20.0	20.0	22.2	J-9065	20.0	22.2	J-9065	True
H-78	<None>	3	True	1,000.00	2,146.27	1,000.00	2,146.27	20.0	20.0	20.0	20.6	H-420	20.0	20.6	H-420	True
H-85	<None>	3	True	1,000.00	2,148.05	1,000.00	2,148.05	20.0	20.0	20.0	22.1	H-84	20.0	22.1	H-84	True
H-102	<None>	3	True	1,000.00	2,149.80	1,000.00	2,149.80	20.0	20.0	20.0	20.1	H-117	20.0	20.1	H-117	True
H-452	<None>	12	True	1,000.00	2,154.79	1,000.00	2,154.79	20.0	20.0	20.0	23.5	J-7997	20.0	23.5	J-7997	True
H-17	<None>	5														

	<None>	3	True	1,000.00	2,184.72	1,000.00	2,184.72	20.0	20.0	20.0	23.0	J-7869	20.0	23.0	J-7869	True
H-364	<None>	4	True	1,000.00	2,192.02	1,000.00	2,192.02	20.0	20.0	20.0	21.2	H-325	20.0	21.2	H-325	True
H-216	<None>	3	True	1,000.00	2,192.17	1,000.00	2,192.17	20.0	20.0	20.0	22.9	J-7733	20.0	22.9	J-7733	True
H-25	<None>	4	True	1,000.00	2,197.54	1,000.00	2,197.54	20.0	20.0	20.0	22.2	H-325	20.0	22.2	H-325	True
H-97	<None>	3	True	1,000.00	2,199.86	1,000.00	2,199.86	20.0	20.0	20.0	23.2	J-8029	20.0	23.2	J-8029	True
H-287	<None>	4	True	1,000.00	2,203.51	1,000.00	2,203.51	20.0	20.0	20.0	22.7	J-7481	20.0	22.7	J-7481	True
H-103	<None>	21	True	1,000.00	2,207.97	1,000.00	2,207.97	20.0	20.4	20.0	20.0	H-117	20.0	20.0	H-117	True
FH - 71	<None>	3	True	1,000.00	2,208.17	1,000.00	2,208.17	20.0	20.0	20.0	36.3	J-8828	20.0	36.3	J-8828	True
H-89	<None>	3	True	1,000.00	2,217.31	1,000.00	2,217.31	20.0	20.0	20.0	23.2	J-7332	20.0	23.2	J-7332	True
H-430	<None>	3	True	1,000.00	2,225.88	1,000.00	2,225.88	20.0	20.0	20.0	21.8	J-8519	20.0	21.8	J-8519	True
H-263	<None>	21	True	1,000.00	2,227.13	1,000.00	2,227.13	20.0	20.4	20.0	20.0	H-262	20.0	20.0	H-262	True
H-35	<None>	4	True	1,000.00	2,228.77	1,000.00	2,228.77	20.0	20.0	20.0	21.3	H-27	20.0	21.3	H-27	True
H-44	<None>	3	True	1,000.00	2,229.21	1,000.00	2,229.21	20.0	20.0	20.0	22.1	J-8721	20.0	22.1	J-8721	True
FH 210	<None>	4	True	1,000.00	2,233.26	1,000.00	2,233.26	20.0	20.0	20.0	22.8	H-325	20.0	22.8	H-325	True
H-161	<None>	12	True	1,000.00	2,237.74	1,000.00	2,237.74	20.0	20.0	20.0	23.0	J-7666	20.0	23.0	J-7666	True
H-152	<None>	12	True	1,000.00	2,246.35	1,000.00	2,246.35	20.0	20.0	20.0	23.0	J-7652	20.0	23.0	J-7652	True
H-389	<None>	3	True	1,000.00	2,246.52	1,000.00	2,246.52	20.0	20.0	20.0	23.0	J-7811	20.0	23.0	J-7811	True
H-322	<None>	4	True	1,000.00	2,248.61	1,000.00	2,248.61	20.0	20.0	20.0	22.9	J-7962	20.0	22.9	J-7962	True
H-264	<None>	3	True	1,000.00	2,270.97	1,000.00	2,270.97	20.0	20.0	20.0	20.6	J-8852	20.0	20.6	J-8852	True
H-138	<None>	3	True	1,000.00	2,279.81	1,000.00	2,279.81	20.0	20.0	20.0	24.8	H-117	20.0	24.8	H-117	True
H-49	<None>	3	True	1,000.00	2,284.93	1,000.00	2,284.93	20.0	20.0	20.0	22.6	J-7813	20.0	22.6	J-7813	True
H-297	<None>	13	True	1,000.00	2,286.12	1,000.00	2,286.12	20.0	22.5	20.0	20.0	J-8244	20.0	20.0	J-8244	True
H-232	<None>	3	True	1,000.00	2,290.30	1,000.00	2,290.30	20.0	20.0	20.0	22.5	J-8024	20.0	22.5	J-8024	True
H-305	<None>	4	True	1,000.00	2,292.21	1,000.00	2,292.21	20.0	20.0	20.0	26.6	J-8332	20.0	26.6	J-8332	True
H-387	<None>	3	True	1,000.00	2,305.37	1,000.00	2,305.37	20.0	20.0	20.0	22.8	J-7888	20.0	22.8	J-7888	True
H-449	<None>	13	True	1,000.00	2,315.72	1,000.00	2,315.72	20.0	20.0	20.0	23.0	J-7668	20.0	23.0	J-7668	True
H-356	<None>	3	True	1,000.00	2,316.14	1,000.00	2,316.14	20.0	20.0	20.0	23.3	J-7410	20.0	23.3	J-7410	True
H-223	<None>	3	True	1,000.00	2,318.36	1,000.00	2,318.36	20.0	20.0	20.0	23.0	J-7817	20.0	23.0	J-7817	True
H-378	<None>	6	True	1,000.00	2,326.01	1,000.00	2,326.01	20.0	25.5	20.0	20.0	H-27	20.0	20.0	H-27	True
H-343	<None>	3	True	1,000.00	2,327.02	1,000.00	2,327.02	20.0	20.0	20.0	23.4	J-7753	20.0	23.4	J-7753	True
H-164	<None>	12	True	1,000.00	2,348.65	1,000.00	2,348.65	20.0	20.0	20.0	22.8	J-7677	20.0	22.8	J-7677	True
H-188	<None>	3	True	1,000.00	2,357.40	1,000.00	2,357.40	20.0	20.0	20.0	23.6	J-8961	20.0	23.6	J-8961	True
H-237	<None>	4	True	1,000.00	2,364.63	1,000.00	2,364.63	20.0	20.0	20.0	25.2	J-8315	20.0	25.2	J-8315	True
H-107	<None>	3	True	1,000.00	2,365.47	1,000.00	2,365.47	20.0	20.0	20.0	23.2	J-7794	20.0	23.2	J-7794	True
H-157	<None>	12	True	1,000.00	2,366.57	1,000.00	2,366.57	20.0	20.0	20.0	23.1	J-7723	20.0	23.1	J-7723	True
H-66	<None>	3	True	1,000.00	2,370.16	1,000.00	2,370.16	20.0	20.0	20.0	23.2	J-9119	20.0	23.2	J-9119	True
FH 209	<None>	4	True	1,000.00	2,373.13	1,000.00	2,373.13	20.0	20.0	20.0	20.4	H-325	20.0	20.4	H-325	True
H-441	<None>	4	True	1,000.00	2,376.17	1,000.00	2,376.17	20.0	20.0	20.0	23.0	J-7498	20.0	23.0	J-7498	True
H-333	<None>	4	True	1,000.00	2,379.61	1,000.00	2,379.61	20.0	20.0	20.0	23.1	J-7502	20.0	23.1	J-7502	True
H-224	<None>	3	True	1,000.00	2,381.56	1,000.00	2,381.56	20.0	20.0	20.0	23.1	J-7803	20.0	23.1	J-7803	True
H-87	<None>	3	True	1,000.00	2,384.69	1,000.00	2,384.69	20.0	20.0	20.0	23.7	J-8034	20.0	23.7	J-8034	True
H-238	<None>	4	True	1,000.00	2,385.24	1,000.00	2,385.24	20.0	20.0	20.0	25.1	J-8290	20.0	25.1	J-8290	True
H-163	<None>	13	True	1,000.00	2,386.41	1,000.00	2,386.41	20.0	20.0	20.0	23.6	J-7650	20.0	23.6	J-7650	True
H-39	<None>	3	True	1,000.00	2,388.02	1,000.00	2,388.02	20.0	20.0	20.0	23.3	J-7665	20.0	23.3	J-7665	True
H-197	<None>	3	True	1,000.00	2,389.23	1,000.00	2,389.23	20.0	20.0	20.0	22.9	J-7541	20.0	22.9	J-7541	True
H-5	<None>	3	True	1,000.00	2,401.80	1,000.00	2,401.80	20.0	20.0	20.0	24.6	J-8225	20.0	24.6	J-8225	True
H-383	<None>	3	True	1,000.00	2,408.31	1,000.00	2,408.31	20.0	20.0	20.0	21.7	J-7218	20.0	21.7	J-7218	True
H-261	<None>	4	True	1,000.00	2,422.14	1,000.00	2,422.14	20.0	20.0	20.0	25.8	J-8348	20.0	25.8	J-8348	True
H-77	<None>	3	True	1,000.00	2,434.06	1,000.00	2,434.06	20.0	20.0	20.0	23.4	J-7748	20.0	23.4	J-7748	True
H-190	<None>	3	True	1,000.00	2,442.06	1,000.00	2,442.06	20.0	20.0	20.0	23.8	J-8006	20.0	23.8	J-8006	True
H-484	<None>	6	True	1,000.00	2,448.60	1,000.00	2,448.60	20.0	31.8	20.0	20.0	H-325	20.0	20.0	H-325	True
H-71	<None>	3	True	1,000.00	2,458.03	1,000.00	2,458.03	20.0	20.0	20.0	22.8	J-7411	20.0	22.8	J-7411	True
H-58	<None>	3	True	1,000.00	2,458.25	1,000.00	2,458.25	20.0	20.0	20.0	24.4	J-8091	20.0	24.4	J-8091	True
H-72	<None>	3	True	1,000.00	2,465.90	1,000.00	2,465.90	20.0	20.0	20.0	23.9	J-7984	20.0	23.9	J-7984	True
H-370	<None>	12	True	1,000.00	2,494.15	1,000.00	2,494.15	20.0	20.0	20.0	22.9	J-7662	20.0	22.9	J-7662	True
H-396	<None>	3	True	1,000.00	2,500.16	1,000.00	2,500.16	20.0	20.0	20.0	23.1	J-7416	20.0	23.1	J-7416	True
H-196	<None>	3	True	1,000.00	2,502.13	1,000.00	2,502.13	20.0	20.0	20.0	24.0	J-8022	20.0	24.0	J-8022	True
H-487	<None>	13	True	1,000.00	2,514.24	1,000.00	2,514.24	20.0	20.0	20.0	48.7	H-162	20.0	48.7	H-162	True
H-139	<None>	13	True	1,000.00	2,515.42	1,000.00	2,515.42	20.0	20.0	20.0	24.9	H-138	20.0	24.9	H-138	True
H-341	<None>	3	True	1,000.00	2,520.30	1,000.00	2,520.30	20.0	20.0	20.0	23.0	J-7420	20.0	23.0	J-7420	True
H-218	<None>	3	True	1,000.00	2,524.27	1,000.00	2,524.27	20.0	20.0	20.0	23.4	J-7735	20.0	23.4	J-7735	True
H-445	<None>	4	True	1,000.00	2,535.88	1,000.00	2,535.88	20.0	20.0	20.0	23.2	J-7512	20.0	23.2	J-7512	True
H-192	<None>	3	True	1,000.00	2,536.08	1,000.00	2,536.08	20.0	20.0	20.0	24.2	J-8031	20.0	24.2	J-8031	True
H-48	<None>	3	True	1,000.00	2,542.92	1,000.00	2,542.92	20.0	20.0	20.0	21.2	J-7078	20.0	21.2	J-7078	True
H-288	<None>	4	True	1,000.00	2,549.79	1,000.00	2,549.79	20.0	20.0	20.0	23.1	J-7455	20.0	23.1	J-7455	True
H-185	<None>	3	True	1,000.00	2,566.48	1,000.00	2,566.48	20.0	20.0	20.0	23.7	J-9065	20.0	23.7	J-9065	True
H-374	<None>	6	True	1,000.00	2,566.62	1,000.00	2,566.62	20.0	29.3	20.0	20.0	H-325	20.0	20.0	H-325	True
H-388	<None>	3	True	1,000.00	2,570.15	1,000.00	2,570.15	20.0	20.0	20.0	23.6	J-7672	20.0	23.6	J-7672	True
H-274	<None>	4	True	1,000.00	2,572.26	1,000.00	2,572.26	20.0	20.0	20.0	23.6	J-7440	20.0	23.6	J-7440	True
H-200	<None>	3	True	1,000.00	2,583.04	1,000.00	2,583.04	20.0	20.0	20.0	22.6	FH - 48	20.0	22.6	FH - 48	True
H-418	<None>	3	True	1,000.00	2,593.52	1,000.00	2,593.52	20.0	20.0	20.0	23.7	J-7707	20.0	23.7	J-7707	True
H-296	<None>	3	True	1,000.00	2,594.04	1,000.00	2,594.04	20.0	20.0	20.0	34.4	J-7831	20.0	34.4	J-7831	True
H-73	<None>	3	True	1,000.00	2,605.75	1,000.00	2,605.75	20.0	20.0	20.0	23.7	J-7782	20.0	23.7	J-7782	True
H-169	<None>	13	True	1,000.00	2,624.51	1,000.00	2,624.51	20.0	20.0	20.0	23.6	J-7630	20.0	23.6	J-7630	True

	<None>	4	True	1,000.00	2,627.81	1,000.00	2,627.81	20.0	20.0	20.0	22.0	H-237	20.0	22.0	H-237	True
H-442	<None>	4	True	1,000.00	2,638.50	1,000.00	2,638.50	20.0	20.0	20.0	23.6	J-7493	20.0	23.6	J-7493	True
H-80	<None>	3	True	1,000.00	2,640.52	1,000.00	2,640.52	20.0	20.0	20.0	20.6	H-221	20.0	20.6	H-221	True
H-10	<None>	3	True	1,000.00	2,645.89	1,000.00	2,645.89	20.0	20.0	20.0	23.4	J-7446	20.0	23.4	J-7446	True
H-99	<None>	13	True	1,000.00	2,648.48	1,000.00	2,648.48	20.0	20.0	20.0	26.1	J-8316	20.0	26.1	J-8316	True
H-172	<None>	13	True	1,000.00	2,655.53	1,000.00	2,655.53	20.0	20.0	20.0	23.5	J-7638	20.0	23.5	J-7638	True
H-451	<None>	3	True	1,000.00	2,667.27	1,000.00	2,667.27	20.0	20.0	20.0	24.1	J-7881	20.0	24.1	J-7881	True
H-16	<None>	4	True	1,000.00	2,674.61	1,000.00	2,674.61	20.0	20.0	20.0	23.8	J-9126	20.0	23.8	J-9126	True
H-222	<None>	3	True	1,000.00	2,681.82	1,000.00	2,681.82	20.0	20.0	20.0	23.9	J-7799	20.0	23.9	J-7799	True
H-375	<None>	6	True	1,000.00	2,682.05	1,000.00	2,682.05	20.0	28.6	20.0	20.0	H-325	20.0	20.0	H-325	True
H-371	<None>	12	True	1,000.00	2,693.55	1,000.00	2,693.55	20.0	20.0	20.0	21.4	J-8244	20.0	21.4	J-8244	True
H-439	<None>	4	True	1,000.00	2,707.11	1,000.00	2,707.11	20.0	20.0	20.0	22.3	H-325	20.0	22.3	H-325	True
H-438	<None>	4	True	1,000.00	2,711.55	1,000.00	2,711.55	20.0	20.0	20.0	22.2	H-287	20.0	22.2	H-287	True
H-458	<None>	6	True	1,000.00	2,716.17	1,000.00	2,716.17	20.0	27.6	20.0	20.0	H-325	20.0	20.0	H-325	True
H-350	<None>	4	True	1,000.00	2,722.58	1,000.00	2,722.58	20.0	20.0	20.0	21.7	H-325	20.0	21.7	H-325	True
H-179	<None>	3	True	1,000.00	2,727.78	1,000.00	2,727.78	20.0	20.0	20.0	25.6	J-8188	20.0	25.6	J-8188	True
H-94	<None>	3	True	1,000.00	2,736.61	1,000.00	2,736.61	20.0	20.0	20.0	35.5	J-7112	20.0	35.5	J-7112	True
H-76	<None>	3	True	1,000.00	2,739.93	1,000.00	2,739.93	20.0	20.0	20.0	24.2	J-7867	20.0	24.2	J-7867	True
H-33	<None>	6	True	1,000.00	2,743.63	1,000.00	2,743.63	20.0	26.2	20.0	20.0	H-325	20.0	20.0	H-325	True
H-440	<None>	6	True	1,000.00	2,758.71	1,000.00	2,758.71	20.0	23.9	20.0	20.0	H-325	20.0	20.0	H-325	True
H-294	<None>	3	True	1,000.00	2,771.91	1,000.00	2,771.91	20.0	20.0	20.0	36.4	J-8751	20.0	36.4	J-8751	True
H-348	<None>	13	True	1,000.00	2,775.22	1,000.00	2,775.22	20.0	20.0	20.0	23.2	J-7063	20.0	23.2	J-7063	True
H-100	<None>	13	True	1,000.00	2,775.29	1,000.00	2,775.29	20.0	20.0	20.0	24.6	H-99	20.0	24.6	H-99	True
H-153	<None>	13	True	1,000.00	2,798.97	1,000.00	2,798.97	20.0	20.0	20.0	23.8	J-7625	20.0	23.8	J-7625	True
H-443	<None>	6	True	1,000.00	2,812.01	1,000.00	2,812.01	20.0	22.8	20.0	20.0	H-325	20.0	20.0	H-325	True
H-75	<None>	3	True	1,000.00	2,812.10	1,000.00	2,812.10	20.0	20.0	20.0	24.0	J-7731	20.0	24.0	J-7731	True
H-32	<None>	6	True	1,000.00	2,821.41	1,000.00	2,821.41	20.0	27.8	20.0	20.0	H-325	20.0	20.0	H-325	True
H-285	<None>	6	True	1,000.00	2,843.64	1,000.00	2,843.64	20.0	26.6	20.0	20.0	H-325	20.0	20.0	H-325	True
H-96	<None>	3	True	1,000.00	2,843.74	1,000.00	2,843.74	20.0	20.0	20.0	25.5	J-8129	20.0	25.5	J-8129	True
H-286	<None>	6	True	1,000.00	2,848.13	1,000.00	2,848.13	20.0	22.9	20.0	20.0	H-325	20.0	20.0	H-325	True
H-353	<None>	4	True	1,000.00	2,854.44	1,000.00	2,854.44	20.0	20.0	20.0	25.2	H-341	20.0	25.2	H-341	True
H-447	<None>	6	True	1,000.00	2,862.60	1,000.00	2,862.60	20.0	25.4	20.0	20.0	H-325	20.0	20.0	H-325	True
H-284	<None>	4	True	1,000.00	2,878.01	1,000.00	2,878.01	20.0	20.0	20.0	24.7	J-7934	20.0	24.7	J-7934	True
H-34	<None>	13	True	1,000.00	2,890.64	1,000.00	2,890.64	20.0	31.4	20.0	20.0	H-325	20.0	20.0	H-325	True
H-385	<None>	4	True	1,000.00	2,894.32	1,000.00	2,894.32	20.0	20.0	20.0	23.6	J-7452	20.0	23.6	J-7452	True
H-446	<None>	6	True	1,000.00	2,895.40	1,000.00	2,895.40	20.0	30.3	20.0	20.0	H-325	20.0	20.0	H-325	True
H-394	<None>	4	True	1,000.00	2,904.48	1,000.00	2,904.48	20.0	20.0	20.0	27.1	J-8328	20.0	27.1	J-8328	True
H-275	<None>	4	True	1,000.00	2,913.53	1,000.00	2,913.53	20.0	20.0	20.0	24.2	J-7393	20.0	24.2	J-7393	True
H-9	<None>	4	True	1,000.00	2,920.24	1,000.00	2,920.24	20.0	20.0	20.0	30.7	H-261	20.0	30.7	H-261	True
H-56	<None>	3	True	1,000.00	2,922.56	1,000.00	2,922.56	20.0	20.0	20.0	35.2	J-8531	20.0	35.2	J-8531	True
H-160	<None>	4	True	1,000.00	2,929.34	1,000.00	2,929.34	20.0	20.0	20.0	24.1	J-7632	20.0	24.1	J-7632	True
H-409	<None>	3	True	1,000.00	2,932.88	1,000.00	2,932.88	20.0	20.0	20.0	39.0	J-7095	20.0	39.0	J-7095	True
FH - 464	<None>	4	True	1,000.00	2,937.61	1,000.00	2,937.61	20.0	20.0	20.0	44.3	H-27	20.0	44.3	H-27	True
H-289	<None>	4	True	1,000.00	2,941.48	1,000.00	2,941.48	20.0	20.0	20.0	25.4	J-7809	20.0	25.4	J-7809	True
H-167	<None>	4	True	1,000.00	2,949.01	1,000.00	2,949.01	20.0	20.0	20.0	24.4	J-7709	20.0	24.4	J-7709	True
H-220	<None>	4	True	1,000.00	2,951.85	1,000.00	2,951.85	20.0	20.0	20.0	23.6	J-7395	20.0	23.6	J-7395	True
H-376	<None>	10	True	1,000.00	2,954.77	1,000.00	2,954.77	20.0	35.1	20.0	20.0	H-325	20.0	20.0	H-325	True
422	<None>	4	True	1,000.00	2,958.10	1,000.00	2,958.10	20.0	20.0	20.0	22.2	J-9153	20.0	22.2	J-9153	True
H-6	<None>	4	True	1,000.00	2,965.69	1,000.00	2,965.69	20.0	20.0	20.0	20.4	H-237	20.0	20.4	H-237	True
H-227	<None>	4	True	1,000.00	2,970.76	1,000.00	2,970.76	20.0	20.0	20.0	23.1	J-7345	20.0	23.1	J-7345	True
H-448	<None>	4	True	1,000.00	2,977.56	1,000.00	2,977.56	20.0	20.0	20.0	24.6	J-7900	20.0	24.6	J-7900	True
H-198	<None>	3	True	1,000.00	2,997.45	1,000.00	2,997.45	20.0	20.0	20.0	23.1	J-7358	20.0	23.1	J-7358	True
H-395	<None>	4	True	1,000.00	3,001.92	1,000.00	3,001.92	20.0	20.0	20.0	24.2	J-7602	20.0	24.2	J-7602	True
H-228	<None>	3	True	1,000.00	3,018.33	1,000.00	3,018.33	20.0	20.0	20.0	24.5	J-7654	20.0	24.5	J-7654	True
H-277	<None>	4	True	1,000.00	3,023.11	1,000.00	3,023.11	20.0	20.0	20.0	24.5	J-7617	20.0	24.5	J-7617	True
H-354	<None>	4	True	1,000.00	3,027.11	1,000.00	3,027.11	20.0	20.0	20.0	24.1	H-237	20.0	24.1	H-237	True
H-226	<None>	4	True	1,000.00	3,029.39	1,000.00	3,029.39	20.0	20.0	20.0	22.4	J-7264	20.0	22.4	J-7264	True
H-334	<None>	4	True	1,000.00	3,047.89	1,000.00	3,047.89	20.0	20.0	20.0	24.6	J-7693	20.0	24.6	J-7693	True
H-170	<None>	4	True	1,000.00	3,062.23	1,000.00	3,062.23	20.0	20.0	20.0	25.5	J-7998	20.0	25.5	J-7998	True
H-180	<None>	4	True	1,000.00	3,073.70	1,000.00	3,073.70	20.0	20.0	20.0	23.3	H-179	20.0	23.3	H-179	True
H-59	<None>	3	True	1,000.00	3,086.40	1,000.00	3,086.40	20.0	20.0	20.0	25.9	J-8065	20.0	25.9	J-8065	True
487	<None>	4	True	1,000.00	3,090.56	1,000.00	3,090.56	20.0	20.0	20.0	23.2	J-9152	20.0	23.2	J-9152	True
H-278	<None>	4	True	1,000.00	3,092.42	1,000.00	3,092.42	20.0	20.0	20.0	25.4	J-7990	20.0	25.4	J-7990	True
H-271	<None>	4	True	1,000.00	3,093.29	1,000.00	3,093.29	20.0	20.0	20.0	24.9	J-7792	20.0	24.9	J-7792	True
H-415	<None>	3	True	1,000.00	3,095.61	1,000.00	3,095.61	20.0	20.0	20.0	22.4	H-66	20.0	22.4	H-66	True
H-166	<None>	4	True	1,000.00	3,122.56	1,000.00	3,122.56	20.0	20.0	20.0	25.1	J-7557	20.0	25.1	J-7557	True
H-173	<None>	4	True	1,000.00	3,134.10	1,000.00	3,134.10	20.0	20.0	20.0	25.3	J-7968	20.0	25.3	J-7968	True
H-428	<None>	3	True	1,000.00	3,140.96	1,000.00	3,140.96	20.0	20.0	20.0	24.7	J-7623	20.0	24.7	J-7623	True
FH - 465	<None>	4	True	1,000.00	3,141.04	1,000.00	3,141.04	20.0	20.0	20.0	41.9	H-162	20.0	41.9	H-162	True
H-423	<None>	3	True	1,000.00	3,144.88	1,000.00	3,144.88	20.0	20.0	20.0	26.5	J-8115	20.0	26.5	J-8115	True
H-178	<None>	14	True	1,000.00	3,153.23	1,000.00	3,153.23	20.0	20.5	20.0	20.0	H-179	20.0	20.0	H-179	True
H-184	<None>	3	True	1,000.00	3,154.51	1,000.00	3,154.51	20.0	20.0	20.0	26.4	J-8111	20.0	26.4	J-8111	True
H-335	<None>	4	True	1,000.00	3,158.58	1,000.00	3,158.58	20.0	20.0	20.0	24.7	J-7604	20.0	24.7	J-7604	True
H-405	<None>	4	True	1,000.00	3,168.22	1,000.00	3,168.22	20.0	20.0	20.0	23.6	J-7372	20.0	23.6	J-7372	True
H-358	<None>	4	True													

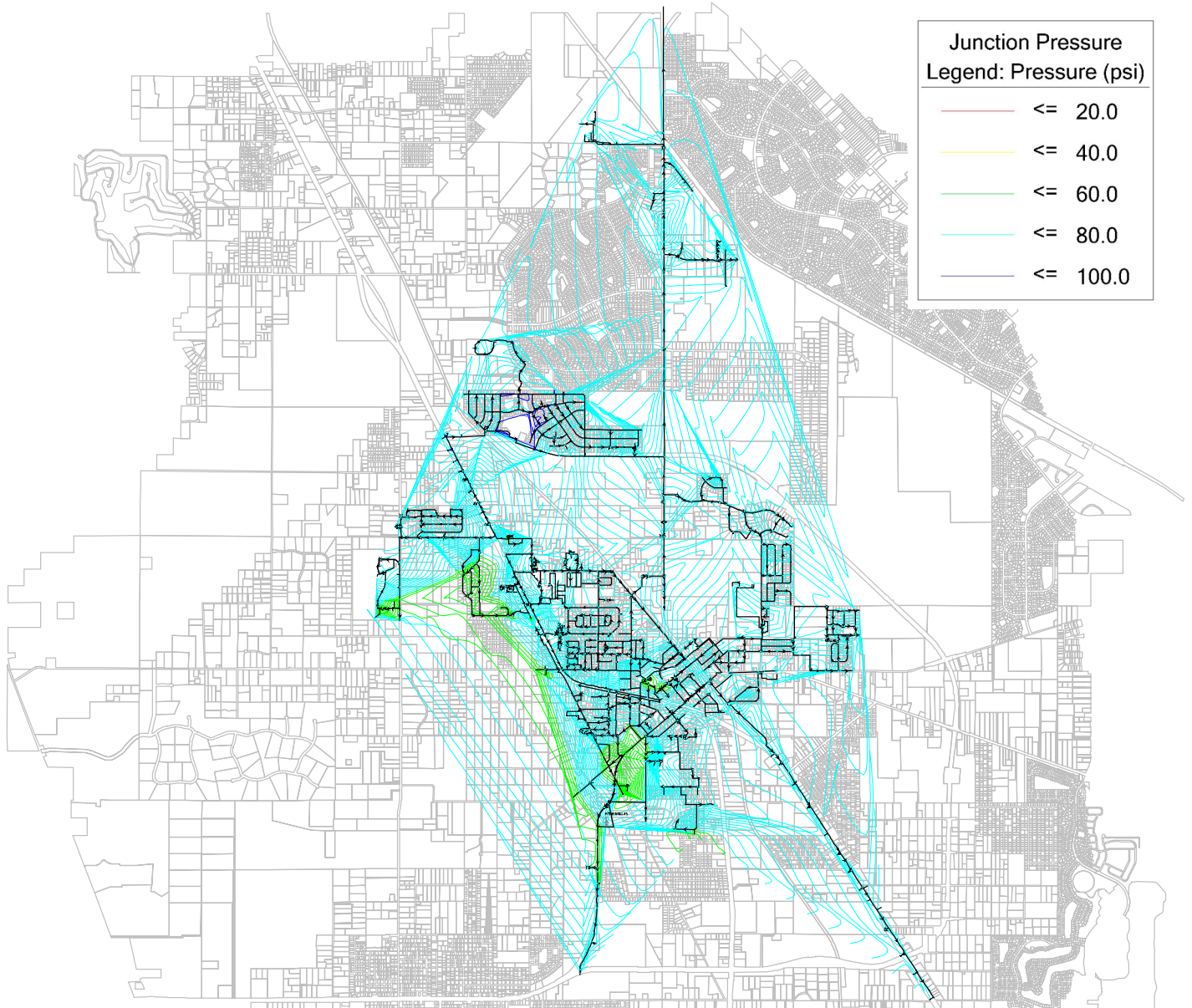
	<None>	4	True	1,000.00	3,181.94	1,000.00	3,181.94	20.0	33.2	20.0	20.0	H-325	20.0	20.0	H-325	True
H-181	<None>	13	True	1,000.00	3,219.67	1,000.00	3,219.67	20.0	20.0	20.0	23.0	H-179	20.0	23.0	H-179	True
H-165	<None>	4	True	1,000.00	3,233.75	1,000.00	3,233.75	20.0	20.0	20.0	25.2	J-7699	20.0	25.2	J-7699	True
H-158	<None>	4	True	1,000.00	3,241.79	1,000.00	3,241.79	20.0	20.0	20.0	24.9	J-7636	20.0	24.9	J-7636	True
H-406	<None>	4	True	1,000.00	3,246.07	1,000.00	3,246.07	20.0	20.0	20.0	25.7	J-7972	20.0	25.7	J-7972	True
H-81	<None>	4	True	1,000.00	3,246.67	1,000.00	3,246.67	20.0	20.0	20.0	22.0	FH - 48	20.0	22.0	FH - 48	True
FH - 229	<None>	12	True	1,000.00	3,247.65	1,000.00	3,247.65	20.0	20.0	20.0	41.1	H-179	20.0	41.1	H-179	True
H-230	<None>	3	True	1,000.00	3,247.87	1,000.00	3,247.87	20.0	20.0	20.0	22.6	J-7268	20.0	22.6	J-7268	True
H-332	<None>	3	True	1,000.00	3,252.17	1,000.00	3,252.17	20.0	20.0	20.0	26.9	J-8107	20.0	26.9	J-8107	True
H-177	<None>	13	True	1,000.00	3,255.62	1,000.00	3,255.62	20.0	20.0	20.0	24.1	H-179	20.0	24.1	H-179	True
H-291	<None>	4	True	1,000.00	3,259.78	1,000.00	3,259.78	20.0	20.0	20.0	32.5	J-7075	20.0	32.5	J-7075	True
H-199	<None>	4	True	1,000.00	3,301.08	1,000.00	3,301.08	20.0	20.0	20.0	21.4	J-7338	20.0	21.4	J-7338	True
H-357	<None>	4	True	1,000.00	3,317.13	1,000.00	3,317.13	20.0	20.0	20.0	24.7	J-7458	20.0	24.7	J-7458	True
H-175	<None>	4	True	1,000.00	3,356.73	1,000.00	3,356.73	20.0	20.0	20.0	25.6	J-7387	20.0	25.6	J-7387	True
H-392	<None>	3	True	1,000.00	3,362.54	1,000.00	3,362.54	20.0	20.0	20.0	25.5	J-7827	20.0	25.5	J-7827	True
H-154	<None>	4	True	1,000.00	3,368.57	1,000.00	3,368.57	20.0	20.0	20.0	25.3	J-7715	20.0	25.3	J-7715	True
H-276	<None>	4	True	1,000.00	3,389.31	1,000.00	3,389.31	20.0	20.0	20.0	25.3	J-7434	20.0	25.3	J-7434	True
H-379	<None>	4	True	1,000.00	3,399.31	1,000.00	3,399.31	20.0	27.9	20.0	20.0	H-325	20.0	20.0	H-325	True
H-427	<None>	3	True	1,000.00	3,408.58	1,000.00	3,408.58	20.0	20.0	20.0	26.9	J-8820	20.0	26.9	J-8820	True
H-403	<None>	3	True	1,000.00	3,408.99	1,000.00	3,408.99	20.0	20.0	20.0	27.0	J-8059	20.0	27.0	J-8059	True
H-174	<None>	4	True	1,000.00	3,420.15	1,000.00	3,420.15	20.0	20.0	20.0	21.5	H-334	20.0	21.5	H-334	True
H-327	<None>	3	True	1,000.00	3,420.19	1,000.00	3,420.19	20.0	20.0	20.0	25.8	J-7894	20.0	25.8	J-7894	True
H-156	<None>	4	True	1,000.00	3,433.10	1,000.00	3,433.10	20.0	20.0	20.0	25.5	J-7691	20.0	25.5	J-7691	True
H-339	<None>	4	True	1,000.00	3,447.01	1,000.00	3,447.01	20.0	20.0	20.0	31.2	J-8383	20.0	31.2	J-8383	True
H-46	<None>	4	True	1,000.00	3,454.43	1,000.00	3,454.43	20.0	20.0	20.0	34.3	J-8244	20.0	34.3	J-8244	True
H-151	<None>	4	True	1,000.00	3,469.01	1,000.00	3,469.01	20.0	20.0	20.0	26.3	J-7958	20.0	26.3	J-7958	True
H-290	<None>	4	True	1,000.00	3,471.43	1,000.00	3,471.43	20.0	20.0	20.0	25.5	J-7660	20.0	25.5	J-7660	True
H-187	<None>	2	True	1,000.00	3,500.00	1,000.00	3,500.00	20.0	32.3	20.0	31.2	H-162	20.0	31.2	H-162	True
H-24	<None>	2	True	1,000.00	3,500.00	1,000.00	3,500.00	20.0	50.7	20.0	39.8	H-27	20.0	39.8	H-27	True
H-29	<None>	2	True	1,000.00	3,500.00	1,000.00	3,500.00	20.0	27.8	20.0	30.9	H-30	20.0	30.9	H-30	True
H-30	<None>	2	True	1,000.00	3,500.00	1,000.00	3,500.00	20.0	22.9	20.0	28.5	J-8993	20.0	28.5	J-8993	True
H-36	<None>	2	True	1,000.00	3,500.00	1,000.00	3,500.00	20.0	24.8	20.0	23.0	H-27	20.0	23.0	H-27	True
H-37	<None>	2	True	1,000.00	3,500.00	1,000.00	3,500.00	20.0	41.1	20.0	38.5	H-27	20.0	38.5	H-27	True
H-53	<None>	2	True	1,000.00	3,500.00	1,000.00	3,500.00	20.0	25.8	20.0	32.2	J-7045	20.0	32.2	J-7045	True
H-54	<None>	2	True	1,000.00	3,500.00	1,000.00	3,500.00	20.0	41.9	20.0	39.7	J-8855	20.0	39.7	J-8855	True
H-62	<None>	2	True	1,000.00	3,500.00	1,000.00	3,500.00	20.0	55.1	20.0	47.7	J-8855	20.0	47.7	J-8855	True
H-63	<None>	2	True	1,000.00	3,500.00	1,000.00	3,500.00	20.0	52.7	20.0	46.4	H-27	20.0	46.4	H-27	True
FH - 89	<None>	2	True	1,000.00	3,500.00	1,000.00	3,500.00	20.0	33.7	20.0	47.8	J-8855	20.0	47.8	J-8855	True
H-65	<None>	2	True	1,000.00	3,500.00	1,000.00	3,500.00	20.0	57.2	20.0	47.7	J-8855	20.0	47.7	J-8855	True
H-67	<None>	2	True	1,000.00	3,500.00	1,000.00	3,500.00	20.0	55.7	20.0	47.7	J-8855	20.0	47.7	J-8855	True
H-68	<None>	2	True	1,000.00	3,500.00	1,000.00	3,500.00	20.0	43.7	20.0	45.4	H-179	20.0	45.4	H-179	True
H-70	<None>	2	True	1,000.00	3,500.00	1,000.00	3,500.00	20.0	39.1	20.0	44.9	J-7852	20.0	44.9	J-7852	True
FH - 230	<None>	2	True	1,000.00	3,500.00	1,000.00	3,500.00	20.0	21.5	20.0	34.0	H-179	20.0	34.0	H-179	True
H-93	<None>	3	True	1,000.00	3,500.00	1,000.00	3,500.00	20.0	20.9	20.0	28.6	J-8117	20.0	28.6	J-8117	True
H-98	<None>	2	True	1,000.00	3,500.00	1,000.00	3,500.00	20.0	23.4	20.0	30.9	J-9115	20.0	30.9	J-9115	True
H-140	<None>	2	True	1,000.00	3,500.00	1,000.00	3,500.00	20.0	35.1	20.0	35.6	H-162	20.0	35.6	H-162	True
H-141	<None>	2	True	1,000.00	3,500.00	1,000.00	3,500.00	20.0	31.5	20.0	33.7	H-162	20.0	33.7	H-162	True
H-142	<None>	2	True	1,000.00	3,500.00	1,000.00	3,500.00	20.0	33.1	20.0	31.9	H-162	20.0	31.9	H-162	True
H-143	<None>	2	True	1,000.00	3,500.00	1,000.00	3,500.00	20.0	31.5	20.0	31.6	H-162	20.0	31.6	H-162	True
H-144	<None>	2	True	1,000.00	3,500.00	1,000.00	3,500.00	20.0	28.4	20.0	31.6	H-162	20.0	31.6	H-162	True
H-145	<None>	2	True	1,000.00	3,500.00	1,000.00	3,500.00	20.0	32.1	20.0	31.4	H-162	20.0	31.4	H-162	True
H-146	<None>	2	True	1,000.00	3,500.00	1,000.00	3,500.00	20.0	34.7	20.0	31.4	H-162	20.0	31.4	H-162	True
H-147	<None>	2	True	1,000.00	3,500.00	1,000.00	3,500.00	20.0	33.8	20.0	31.6	H-162	20.0	31.6	H-162	True
H-148	<None>	2	True	1,000.00	3,500.00	1,000.00	3,500.00	20.0	34.0	20.0	31.8	H-162	20.0	31.8	H-162	True
H-149	<None>	2	True	1,000.00	3,500.00	1,000.00	3,500.00	20.0	39.2	20.0	32.0	H-162	20.0	32.0	H-162	True
H-155	<None>	2	True	1,000.00	3,500.00	1,000.00	3,500.00	20.0	22.6	20.0	26.7	H-162	20.0	26.7	H-162	True
H-159	<None>	3	True	1,000.00	3,500.00	1,000.00	3,500.00	20.0	20.0	20.0	25.5	J-7648	20.0	25.5	J-7648	True
H-176	<None>	2	True	1,000.00	3,500.00	1,000.00	3,500.00	20.0	32.0	20.0	31.2	H-179	20.0	31.2	H-179	True
H-182	<None>	2	True	1,000.00	3,500.00	1,000.00	3,500.00	20.0	30.0	20.0	30.4	H-179	20.0	30.4	H-179	True
H-183	<None>	2	True	1,000.00	3,500.00	1,000.00	3,500.00	20.0	27.0	20.0	30.7	H-179	20.0	30.7	H-179	True
H-189	<None>	3	True	1,000.00	3,500.00	1,000.00	3,500.00	20.0	21.0	20.0	28.7	J-8127	20.0	28.7	J-8127	True
H-231	<None>	2	True	1,000.00	3,500.00	1,000.00	3,500.00	20.0	37.7	20.0	31.1	J-8855	20.0	31.1	J-8855	True
H-269	<None>	2	True	1,000.00	3,500.00	1,000.00	3,500.00	20.0	25.3	20.0	22.4	H-267	20.0	22.4	H-267	True
H-270	<None>	2	True	1,000.00	3,500.00	1,000.00	3,500.00	20.0	25.4	20.0	30.8	J-7561	20.0	30.8	J-7561	True
H-279	<None>	2	True	1,000.00	3,500.00	1,000.00	3,500.00	20.0	23.1	20.0	29.3	J-7944	20.0	29.3	J-7944	True
H-280	<None>	2	True	1,000.00	3,500.00	1,000.00	3,500.00	20.0	23.0	20.0	28.6	J-7628	20.0	28.6	J-7628	True
H-281	<None>	3	True	1,000.00	3,500.00	1,000.00	3,500.00	20.0	20.9	20.0	26.6	J-7737	20.0	26.6	J-7737	True
H-282	<None>	3	True	1,000.00	3,500.00	1,000.00	3,500.00	20.0	21.6	20.0	24.8	H-334	20.0	24.8	H-334	True
H-283	<None>	3	True	1,000.00	3,500.00	1,000.00	3,500.00	20.0	21.3	20.0	27.4	J-7918	20.0	27.4	J-7918	True
H-293	<None>	2	True	1,000.00	3,500.00	1,000.00	3,500.00	20.0	45.6	20.0	43.7	H-27	20.0	43.7	H-27	True
H-295	<None>	2	True	1,000.00	3,500.00	1,000.00	3,500.00	20.0	46.5	20.0	43.2	H-27	20.0	43.2	H-27	True
H-300	<None>	2	True	1,000.00	3,500.00	1,000.00	3,500.00	20.0	36.3	20.0	30.8	H-27	20.0	30.8	H-27	True
H-301	<None>	2	True	1,000.00	3,500.00	1,000.00	3,500.00	20.0	29.8	20.0	33.0	H-27	20.0	33.0	H-27	True
H-302	<None>	2	True	1,000.00	3,500.00	1,000.00	3,500.00	20.0	31.7	20.0	33.1	J-7115	20.0	33.1	J-7115	True
H-303	<None>	2	True	1,000.00	3,500.00	1,0										

H-318	<None>	2	True	1,000.00	3,500.00	1,000.00	3,500.00	20.0	31.5	20.0	31.9	H-27	20.0	31.9	H-27	True
H-319	<None>	2	True	1,000.00	3,500.00	1,000.00	3,500.00	20.0	28.5	20.0	29.9	J-7039	20.0	29.9	J-7039	True
H-328	<None>	2	True	1,000.00	3,500.00	1,000.00	3,500.00	20.0	33.9	20.0	37.0	H-27	20.0	37.0	H-27	True
H-330	<None>	2	True	1,000.00	3,500.00	1,000.00	3,500.00	20.0	30.2	20.0	36.4	J-7347	20.0	36.4	J-7347	True
H-342	<None>	2	True	1,000.00	3,500.00	1,000.00	3,500.00	20.0	61.9	20.0	48.1	J-8855	20.0	48.1	J-8855	True
H-344	<None>	2	True	1,000.00	3,500.00	1,000.00	3,500.00	20.0	26.1	20.0	31.9	J-7780	20.0	31.9	J-7780	True
H-346	<None>	2	True	1,000.00	3,500.00	1,000.00	3,500.00	20.0	56.8	20.0	47.7	J-8855	20.0	47.7	J-8855	True
H-347	<None>	2	True	1,000.00	3,500.00	1,000.00	3,500.00	20.0	34.3	20.0	42.2	J-8105	20.0	42.2	J-8105	True
H-380	<None>	2	True	1,000.00	3,500.00	1,000.00	3,500.00	20.0	56.9	20.0	47.8	J-8855	20.0	47.8	J-8855	True
H-381	<None>	2	True	1,000.00	3,500.00	1,000.00	3,500.00	20.0	35.6	20.0	35.3	H-27	20.0	35.3	H-27	True
H-386	<None>	2	True	1,000.00	3,500.00	1,000.00	3,500.00	20.0	25.9	20.0	30.9	H-27	20.0	30.9	H-27	True
H-398	<None>	2	True	1,000.00	3,500.00	1,000.00	3,500.00	20.0	34.1	20.0	32.0	H-27	20.0	32.0	H-27	True
H-399	<None>	2	True	1,000.00	3,500.00	1,000.00	3,500.00	20.0	42.3	20.0	41.6	H-27	20.0	41.6	H-27	True
FH - 88	<None>	2	True	1,000.00	3,500.00	1,000.00	3,500.00	20.0	29.8	20.0	33.0	J-8244	20.0	33.0	J-8244	True
H-402	<None>	2	True	1,000.00	3,500.00	1,000.00	3,500.00	20.0	42.1	20.0	47.9	J-8855	20.0	47.9	J-8855	True
H-404	<None>	2	True	1,000.00	3,500.00	1,000.00	3,500.00	20.0	49.9	20.0	49.0	J-8855	20.0	49.0	J-8855	True
H-408	<None>	2	True	1,000.00	3,500.00	1,000.00	3,500.00	20.0	38.5	20.0	44.2	J-7719	20.0	44.2	J-7719	True
H-410	<None>	2	True	1,000.00	3,500.00	1,000.00	3,500.00	20.0	56.2	20.0	47.9	J-8855	20.0	47.9	J-8855	True
H-411	<None>	2	True	1,000.00	3,500.00	1,000.00	3,500.00	20.0	49.1	20.0	47.6	J-8855	20.0	47.6	J-8855	True
H-412	<None>	2	True	1,000.00	3,500.00	1,000.00	3,500.00	20.0	51.7	20.0	46.8	H-27	20.0	46.8	H-27	True
H-414	<None>	2	True	1,000.00	3,500.00	1,000.00	3,500.00	20.0	45.7	20.0	47.5	H-27	20.0	47.5	H-27	True
H-416	<None>	2	True	1,000.00	3,500.00	1,000.00	3,500.00	20.0	43.0	20.0	47.0	H-27	20.0	47.0	H-27	True
H-417	<None>	2	True	1,000.00	3,500.00	1,000.00	3,500.00	20.0	34.6	20.0	40.6	H-179	20.0	40.6	H-179	True
H-419	<None>	3	True	1,000.00	3,500.00	1,000.00	3,500.00	20.0	34.6	20.0	38.0	J-7318	20.0	38.0	J-7318	True
H-422	<None>	2	True	1,000.00	3,500.00	1,000.00	3,500.00	20.0	20.9	20.0	29.6	J-8239	20.0	29.6	J-8239	True
H-429	<None>	2	True	1,000.00	3,500.00	1,000.00	3,500.00	20.0	30.4	20.0	31.3	H-179	20.0	31.3	H-179	True
H-431	<None>	2	True	1,000.00	3,500.00	1,000.00	3,500.00	20.0	22.9	20.0	28.8	J-7840	20.0	28.8	J-7840	True
H-432	<None>	2	True	1,000.00	3,500.00	1,000.00	3,500.00	20.0	42.7	20.0	45.5	H-27	20.0	45.5	H-27	True
H-433	<None>	2	True	1,000.00	3,500.00	1,000.00	3,500.00	20.0	41.3	20.0	44.4	H-27	20.0	44.4	H-27	True
H-434	<None>	2	True	1,000.00	3,500.00	1,000.00	3,500.00	20.0	44.5	20.0	42.4	H-27	20.0	42.4	H-27	True
H-435	<None>	2	True	1,000.00	3,500.00	1,000.00	3,500.00	20.0	52.7	20.0	48.0	J-8855	20.0	48.0	J-8855	True
H-436	<None>	2	True	1,000.00	3,500.00	1,000.00	3,500.00	20.0	62.0	20.0	48.6	J-8855	20.0	48.6	J-8855	True
H-450	<None>	2	True	1,000.00	3,500.00	1,000.00	3,500.00	20.0	55.2	20.0	47.8	J-8855	20.0	47.8	J-8855	True
H-455	<None>	2	True	1,000.00	3,500.00	1,000.00	3,500.00	20.0	40.2	20.0	33.4	H-162	20.0	33.4	H-162	True
H-457	<None>	2	True	1,000.00	3,500.00	1,000.00	3,500.00	20.0	35.8	20.0	34.3	J-7115	20.0	34.3	J-7115	True
H-476	<None>	2	True	1,000.00	3,500.00	1,000.00	3,500.00	20.0	30.2	20.0	33.8	J-7115	20.0	33.8	J-7115	True
H-477	<None>	2	True	1,000.00	3,500.00	1,000.00	3,500.00	20.0	34.7	20.0	30.7	H-27	20.0	30.7	H-27	True
H-478	<None>	2	True	1,000.00	3,500.00	1,000.00	3,500.00	20.0	28.6	20.0	29.9	J-7041	20.0	29.9	J-7041	True
H-479	<None>	2	True	1,000.00	3,500.00	1,000.00	3,500.00	20.0	30.8	20.0	34.7	J-7115	20.0	34.7	J-7115	True
H-481	<None>	2	True	1,000.00	3,500.00	1,000.00	3,500.00	20.0	27.8	20.0	35.9	J-7115	20.0	35.9	J-7115	True
									35.1	20.0	37.8	H-27	20.0	37.8	H-27	True

K:\OCA_Civil\042232003 - Belleview Water Modeling\Design\Water Model\2015.07.22\Belleview - Water Model.wtg

Well 6 – Lead Peak Hour Demand

Scenario: Peak Hour Flow



APPENDIX C: Sanitary Survey Report



FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION

CENTRAL DISTRICT
3319 MAGUIRE BLVD. STE. 232
ORLANDO FL 32803-3767

RICK SCOTT
GOVERNOR

JENNIFER CARROLL
GOVERNOR

HERSCHEL T. VINYARD JR.
SECRETARY

VIA EMAIL

Dmonroe@bellevuefl.org

February 26, 2013

COMPLIANCE ASSISTANCE OFFER

Dennis Monroe
Public Works Director
City of Bellevue
5343 Southeast Abshire Boulevard
Bellevue, FL 34420

OCD-PW-CE-13-0079

Marion County - PW
City of Bellevue
PWS ID Number 3420074

Dear Mr. Monroe:

A sanitary survey was conducted at your water system on January 18, under the authority of Section 403.061, Florida Statutes (F.S.). During this inspection, possible violations of Chapter 403, F.S., Chapter 62-532, Florida Administrative Code (F.A.C.), and Chapter 62-555.520(1), F.A.C. were observed. The purpose of this letter is to offer to provide you with compliance assistance as a means of resolving these matters.

Please see the attached inspection report for a full account of Department observations.

PLEASE BE ADVISED that this Compliance Assistance Offer is part of an agency investigation preliminary to agency action within the meaning of Section 120.57(5), F.S. We request that you review the items of concern noted in the attached inspection report and respond in writing within 30 days of receipt of this Compliance Assistance Offer. Your written response should either:

1. Describe what you have done to resolve the issues (see "Deficiencies" section of the attached report);
2. Provide information that either mitigates the concerns or demonstrates them to be invalid; or
3. Arrange for one of our inspectors to visit your facility to offer suggested actions to return to compliance without enforcement.

It is the Department's desire that you are able to document compliance or corrective actions concerning the possible violations identified in the attached inspection report so that this matter can be closed without enforcement. Your failure to respond promptly in writing (or by e-mail) may result in the initiation of formal enforcement proceedings.

Dennis Monroe /City of Belleview
OCC-PW-CE-0079
February 26, 2013
Page 2

Please direct your response and any questions to Dan Shideler at 407-897-4133, or via e-mail at Daniel.Shideler@dep.state.fl.us. We look forward to your cooperation in completing the investigation and resolution of this matter.

Sincerely,

A handwritten signature in cursive script, appearing to read "Lisa A. Kelley".

Lisa A. Kelley, Assistant Director
Central District Office

cc: Brian Newell, City of Belleview [Bnewell@bellevuefl.org]
Daniel Shideler, DEP Compliance Assurance Program

State of Florida
Department of Environmental Protection
Central District
SANITARY SURVEY REPORT

Plant Name CITY OF BELLEVIEW WTP-1 County Marion PWS ID # 3420074-1
Plant Location 53rd Terrace Road behind Belleview Elementary Phone 352-245-3304
Owner Name City of Belleview: Attention Dennis Monroe Phone 352-245-7021
Owner Address 5343 Southeast Abshier Boulevard, Belleview, FL 34420
Contact Person Dennis Monroe Title Utilities Director Phone 352-245-7021
This Survey Date 1/18/13 Last Survey Date 1/27/10 Last Compliance Inspection Date 9/19/01

PWS TYPE: Community

PLANT CATEGORY & CLASS: 5C

MAX-DAY DESIGN CAPACITY: 1,368,000 gpd

PWS STATUS: Approved

TREATMENT PROCESSES IN USE

Hypochlorination

SERVICE AREA CHARACTERISTICS

Municipality

Food Service: ☐ Yes ☐ No ☒ N/A

Number of Service Connection 3,381

Population Served 8,453 Basis: Owner

OPERATION & MAINTENANCE LOG: Yes

Location Plant

Comments _____

CERTIFIED OPERATOR: Yes

Operator(s) & Certification Class-Number:

Brian Newell B-7931

Hrs/day: *Required* _____ *Visit* _____ *Actual* _____ *Visit* _____

Days/wk: *Required* 5+1 *Actual* 5+1

Non-consecutive Days? ☒ Yes ☐ No ☐ N/A

Comments Visits must total at least 0.6 hrs per week.

MONTHLY OPERATION REPORTS (MORs)

MORs submitted regularly? ☒ Yes ☐ No ☐ N/A

Data missing from MORs? ☒ No ☐ Yes ☐ N/A

Average Day (from MORs) 495,700 gpd

Maximum Day (from MORs) 1,200,000 gpd 2/12

Comments _____

Flow Measuring Device Flow Meter

Meter Size & Type 8" Sensus

Date Last Calibrated 4/11/12

RAW WATER SOURCE

☒ GROUND; Number of Wells 1

☐ PURCHASED from PWS ID # _____

☐ Emergency Water Source _____

Emergency Water Capacity _____

STANDBY POWER SOURCE: Yes

Source: Diesel, right angle drive generator.

Capacity of Standby (kW) 12.5

Switchover: ☒ Automatic ☐ Manual

Hrs Operated Under Load 1 hr/wk.

What equipment does it operate?

☒ Well Pumps Well #5

☐ High Service Pumps _____

☒ Treatment Equipment All

Satisfy avg. daily demand? ☒ Yes ☐ No ☐ Unknown

Audio-visual alarm? ☒ Yes ☐ No

Comments _____

PLANS AND MAPS

Coliform Sampling Plan ☒ Yes ☐ No ☐ N/A

D/DBP Monitoring Plan ☒ Yes ☐ No ☐ N/A

Lead and Copper Plan ☒ Yes ☐ No ☐ N/A

Distribution System Map ☒ Yes ☐ No ☐ N/A

Emergency Response Plan ☒ Yes ☐ No ☐ N/A

Comments _____

PREVENTIVE MAINTENANCE/O&M

Operation & Maintenance Manual ☒ Yes ☐ No

Preventive Maintenance Program ☒ Yes ☐ No

Flushing Program ☒ Yes ☐ No ☐ N/A

Records ☒ Yes ☐ No ☐ N/A

Isolation Valve Exercise ☒ Yes ☐ No ☐ N/A

Records ☒ Yes ☐ No ☐ N/A

Comments _____

CROSS CONNECTION CONTROL

BFPAs 55

Tested 55

WWTP RPZ Yes

Date Tested 4/20/12

Written Plan Yes

Date 1/18/2013

Comments N/A

GROUND WATER SOURCE

Well Number	5(AAE0201)			
Year Drilled	1982			
Depth Drilled	250'			
Drilling Method	Cable tool			
Type of Grout	Cement			
Static Water Level	58'			
Pumping Water Level	Unknown			
Design Well Yield	Unknown			
Test Yield	Unknown			
Actual Yield (if different than rated capacity)	Unknown			
Strainer	Unknown			
Length (outside casing)	Unknown			
Diameter (outside casing)	8"			
Material (outside casing)	Steel			
Well Contamination History	None			
Is inundation of well possible?	No			
6' X 6' X 4" Concrete Pad	Yes			
SET BACKS	Septic Tank	>200'		
	Reuse Water	N/A		
	WW Plumbing	>100'		
	Other Sanitary Hazard	None		
PUMP	Type	Vertical Turbine		
	Manufacturer Name	Goulds		
	Model Number	12		
	Rated Capacity (gpm)	940		
	Motor Horsepower	100		
Well casing 12" above grade?	Yes			
Well Casing Sanitary Seal	OK			
Raw Water Sampling Tap	Yes			
Above Ground Check Valve	Yes			
Fence/Housing	Yes			
Well Vent Protection	Yes			

COMMENTS _____

CHLORINATION (Disinfection)

Type: ☐ Gas ☒ Hypo
Make Mitton Ray Capacity 38.4 gpd
Chlorine Feed Rate 70%
Avg. Amount of Cl₂ gas used 8 ppd
Chlorine Residuals: Plant 1.9 Remote 1.0
Remote tap location Wastewater plant
DPD Test Kit: ☒ On-site ☒ With operator
☐ None ☐ Not Used Daily
Injection Points Prior to the hydropneumatic tanks
Booster Pump Info 1.5 hp Dayton/ 1hp Sta-Rite
Comments _____

Chlorine Gas Use Requirements	YES	NO	Comments
Dual System	☐	☐	
Auto-switchover	☐	☐	
Alarms:			
Loss of Cl ₂ capability	☐	☐	
Loss of Cl ₂ residual	☐	☐	
Cl ₂ leak detection	☐	☐	
Scale	☐	☐	
Chained Cylinders	☐	☐	
Reserve Supply	☐	☐	
Adequate Air-pak	☐	☐	
Sign of Leaks	☐	☐	
Fresh Ammonia	☐	☐	
Ventilation	☐	☐	
Room Lighting	☐	☐	
Warning Signs	☐	☐	
Repair Kits	☐	☐	
Fitted Wrench	☐	☐	
Housing/Protection	☐	☐	

AERATION (Gases, Fe, & Mn Removal)

Type _____ Capacity _____
Aerator Condition _____
Visible Algae Growth _____
Protective Screen Condition _____
Frequency of Cleaning _____
Date Last Inspected/Cleaned _____
Comments _____

STORAGE FACILITIES

(G) Ground (C) Clearwell (E) Elevated
(B) Bladder (H) Hydropneumatic / flow-through

Tank Type/Number	E1
Capacity (gal)	500,000
Material	Steel
Gravity Drain	Yes
By-Pass Piping	Yes
Protected Openings	Yes
Sight Glass or Level Indicator	N/A
PRV/ARV	N/A
Pressure Gauge	N/A
On/Off Pressure	124'/194'
Access Secured	Yes
Access Manhole	Yes
Tank Sample Tap Location	N/A
Date of Inspection	03/2008
Date of Cleaning	03/2008

Comments E1 floats on the system. It is associated with plant #1.

HIGH SERVICE PUMPS

Pump Number			
Type			
Make			
Model			
Capacity (gpm)			
Motor HP			
Date Installed			

Comments _____

State of Florida
Department of Environmental Protection
Central District
SANITARY SURVEY REPORT

Plant Name CITY OF BELLEVIEW WTP-2 County Marion PWS ID # 3420074-2
Plant Location The East corner of US 441 and 100th Street Phone 352-245-3304
Owner Name City of Belleview: Attention Dennis Monroe Phone 352-245-7021
Owner Address 5343 Southeast Abshier Boulevard, Belleview, FL 34420
Contact Person Dennis Monroe Title Utilities Director Phone 352-245-7021
This Survey Date 1/18/13 Last Survey Date 1/27/10 Last Compliance Inspection Date 9/19/01

PWS TYPE: Community

PLANT CATEGORY & CLASS: 5C

MAX-DAY DESIGN CAPACITY: 864,000 gpd

PWS STATUS: Approved

TREATMENT PROCESSES IN USE

Hypochlorination

SERVICE AREA CHARACTERISTICS

Municipality

Food Service: ☐ Yes ☐ No ☒ N/A

Number of Service Connection 3,381

Population Served 8,453 Basis: Owner

OPERATION & MAINTENANCE LOG: Yes

Location Plant

Comments _____

CERTIFIED OPERATOR: Yes

Operator(s) & Certification Class-Number:

Brian Newell B-7931

Hrs/day: Required Visit Actual Visit

Days/wk: Required 5+1 Actual 5+1

Non-consecutive Days? ☒ Yes ☐ No ☐ N/A

Comments Visits must total at least 0.6 hrs per week.

MONTHLY OPERATION REPORTS (MORs)

MORs submitted regularly? ☒ Yes ☐ No ☐ N/A

Data missing from MORs? ☒ No ☐ Yes ☐ N/A

Average Day (from MORs) 311,518 gpd

Maximum Day (from MORs) 860,000 gpd 3/12

Comments _____

Flow Measuring Device Flow Meter

Meter Size & Type 8" Sensus

Date Last Calibrated 04/11/12

RAW WATER SOURCE

☒ GROUND; Number of Wells 1

☐ PURCHASED from PWS ID # _____

☐ Emergency Water Source _____

Emergency Water Capacity _____

STANDBY POWER SOURCE: Yes

Source: Diesel, right angle drive generator.

Capacity of Standby (kW) 12.5

Switchover: ☒ Automatic ☐ Manual

Hrs Operated Under Load 1 hr/wk.

What equipment does it operate?

☒ Well Pumps Well #6

☐ High Service Pumps _____

☒ Treatment Equipment All

Satisfy avg. daily demand? ☒ Yes ☐ No ☐ Unknown

Audio-visual alarm? ☒ Yes ☐ No

Comments Audio alarm telemetered to on-call operator.

PLANS AND MAPS

Coliform Sampling Plan ☒ Yes ☐ No ☐ N/A

D/DBP Monitoring Plan ☒ Yes ☐ No ☐ N/A

Lead and Copper Plan ☒ Yes ☐ No ☐ N/A

Distribution System Map ☒ Yes ☐ No ☐ N/A

Emergency Response Plan ☐ Yes ☒ No ☐ N/A

Comments Emergency response plan is inadequate.

PREVENTIVE MAINTENANCE/O&M

Operation & Maintenance Manual ☒ Yes ☐ No

Preventive Maintenance Program ☒ Yes ☐ No

Flushing Program ☒ Yes ☐ No ☐ N/A

Records ☒ Yes ☐ No ☐ N/A

Isolation Valve Exercise ☒ Yes ☐ No ☐ N/A

Records ☒ Yes ☐ No ☐ N/A

Comments _____

CROSS CONNECTION CONTROL

BFPAs 55 # Tested 55

WWTP RPZ Yes Date Tested 4/20/12

Written Plan Yes Date 1/18/13

Comments N/A

GROUND WATER SOURCE

Well Number		6(AAG9306)			
Year Drilled		1998			
Depth Drilled		300'			
Drilling Method		Combination			
Type of Grout		Cement			
Static Water Level		60'			
Pumping Water Level		Unknown			
Design Well Yield		Unknown			
Test Yield		Unknown			
Actual Yield (if different than rated capacity)		Unknown			
Strainer		Unknown			
Length (outside casing)		105'			
Diameter (outside casing)		16"			
Material (outside casing)		Steel			
Well Contamination History		None			
Is inundation of well possible?		No			
6' X 6' X 4" Concrete Pad		Yes			
SET BACKS	Septic Tank	>200'			
	Reuse Water	N/A			
	WW Plumbing	>100'			
	Other Sanitary Hazard	None			
PUMP	Type	Vertical Turbine			
	Manufacturer Name	Worthington			
	Model Number	12rjMO			
	Rated Capacity (gpm)	950			
	Motor Horsepower	75			
Well casing 12" above grade?		Yes			
Well Casing Sanitary Seal		OK			
Raw Water Sampling Tap		Yes			
Above Ground Check Valve		Yes			
Fence/Housing		Yes			
Well Vent Protection		Yes			

COMMENTS _____

CHLORINATION (Disinfection)

Type: ☐ Gas ☒ Hypo

Make Mitton Ray Capacity gpd

Chlorine Feed Rate 70% of stroke

Avg. Amount of Cl₂ gas used 8 ppd

Chlorine Residuals: Plant 0.9 Remote 1.0

Remote tap location _____ Wastewater plant _____

DPD Test Kit: ☒ On-site ☒ With operator
☐ None ☐ Not Used Daily

Injection Points Prior to the hydropneumatic tanks

Booster Pump Info	1.5 hp Dayton/ 1hp Sta-Rite
-------------------	-----------------------------

Comments _____

Chlorine Gas Use Requirements	YES	NO	Comments
Dual System	☐	☐	
Auto-switchover	☐	☐	
Alarms:			
Loss of Cl ₂ capability	☐	☐	
Loss of Cl ₂ residual	☐	☐	
Cl ₂ leak detection	☐	☐	
Scale	☐	☐	
Chained Cylinders	☐	☐	
Reserve Supply	☐	☐	
Adequate Air-pak	☐	☐	
Sign of Leaks	☐	☐	
Fresh Ammonia	☐	☐	
Ventilation	☐	☐	
Room Lighting	☐	☐	
Warning Signs	☐	☐	
Repair Kits	☐	☐	
Fitted Wrench	☐	☐	
Housing/Protection	☐	☐	

AERATION (Gases, Fe, & Mn Removal)

Type _____ Capacity _____

Aerator Condition

Visible Algae Growth

Protective Screen Condition

Frequency of Cleaning

Date Last Inspected/Cleaned _____

Date Last Inspected/Cleaned: _____

Comments _____

STORAGE FACILITIES

(G) Ground (C) Clearwell (E) Elevated

(B) Bladder (H) Hydropneumatic / flow-through

Tank Type/Number	H1	H2
Capacity (gal)	10,000	10,000
Material	Steel	Steel
Gravity Drain	Yes	Yes
By-Pass Piping	Yes	Yes
Protected Openings	Yes	Yes
Sight Glass or Level Indicator	Yes	Yes
PRV/ARV	PRV	PRV
Pressure Gauge	Yes	Yes
On/Off Pressure	70/84	70/84
Access Secured	Yes	Yes
Access Manhole	Yes	Yes
Tank Sample Tap Location	N/A	Effluent line
Date of Inspection	01/2008	01/2008
Date of Cleaning	01/2008	01/2008

Comments Well 5 and Well 6 are controlled by the
water height at the elevated storage tank.

HIGH SERVICE PUMPS

PUMP SERVOLEFORMS			
Pump Number			
Type			
Make			
Model			
Capacity (gpm)			
Motor HP			
Date Installed			

Comments

DEFICIENCIES:

1. Failure to obtain written approval and/or a construction permit from the Department prior to modifying the water treatment plant.

No supplier of water shall alter or replace underground portions of, or abandon, any public water system well without first obtaining a permit from the appropriate water management district or delegated permitting authority if such a permit is required under Chapter 62-532, F.A.C. In addition, no supplier of water shall introduce a new source of water into any public water system; alter, or discontinue use of, any public water system components other than wells (but including well pumping equipment and appurtenances); or alter the type of chemicals being used to treat drinking water without first obtaining a construction permit or written approval from the Department if such a permit or such approval is required under subsection 62-555.520(1), F.A.C., or first submitting written notification to the Department if such notification is required under subsection 62-555.520(1), F.A.C. [Rule 62-555.350(9), F.A.C.]

Submit a description of the scope, purpose, and location of the work or alterations and assurance that the work or alterations will comply with applicable requirements in Part III of this chapter, including applicable requirements in the engineering references listed in Rule 62-555.330, F.A.C. Provide this information in writing to Cary Padell in the potable water permitting section at 3319 Maguire Blvd., Orlando, FL 32803 or via email at Cary.Padell@dep.state.fl.us. [Rule 62-555.520(1)(b), F.A.C.]

Please be advised that failure to obtain written approval and/or a construction permit from the Department may result in enforcement action.

2. Failure to obtain Department approval or clearance prior to placing constructed modifications into operation.

Except as allowed under subsection 62-555.340(5), F.A.C., or by special permit condition established in accordance with paragraph 62-555.533(2)(f), F.A.C., no public water system (PWS) components constructed or altered under a permit granted by the Department shall be placed into permanent operation without prior Department approval, or clearance, as described in Rule 62-555.345. [Rule 62-555.345, F.A.C.]

Water suppliers wishing to replace existing facilities with new facilities of the same design and capacity must submit written notification to the Department before beginning such replacement work. Such notification must include a description of the scope, purpose, and location of the work and assurance that the work will comply with applicable requirements in Part III of FAC Chapter 62-555 (including conformance to NSF Standard 61). [Rule 62-555.520(1)(c), F.A.C.]

MONITORING:

- For monitoring schedules and information about the Drinking Water Program, please visit the Central District's Drinking Water website at <http://www.dep.state.fl.us/central/Home/DrinkingWater/default.htm>

COMMENTS/REMINDERS:

- **The hydropneumatic tanks at Plant #2 and the elevated storage tank are due to be inspected. The last inspection was performed in January of 2008.** It was noted during the inspection on January 18, 2013, that the City of Belleview was in the process of accepting bids to have the tanks inspected and cleaned.

Finished-drinking-water storage tanks, including conventional hydropneumatic tanks with an access manhole but excluding bladder- or diaphragm-type hydropneumatic tanks without an access manhole, shall be checked at least annually to ensure that hatches are closed and screens are in place; shall be cleaned at least once every five years to remove biogrowths, calcium or iron/manganese deposits, and sludge from inside the tanks; and shall be inspected for structural and coating integrity at least once every five years by personnel under the responsible charge of a professional engineer licensed in Florida. [Rule 62-555.350(2), F.A.C.]

- Suppliers of water shall issue precautionary "boil water" notices as required or recommended in the Department of Health's "Guidelines for the Issuance of Precautionary Boil Water Notices" as adopted in Rule 62-555.335, F.A.C. [Rule 62-555.350(11), F.A.C.]
- Suppliers of water shall telephone the SWP at 1-800-320-0519 immediately (i.e., within two hours) after discovery of any actual or suspected sabotage or security breach, or any suspicious incident, involving a public water system. [Rule 62-555.350(10)(a), F.A.C.]
- Suppliers of water shall notify affected water customers in writing or via telephone, newspaper, radio, or television by no later than the previous business day before taking public water system (PWS) components out of operation for planned maintenance or repair work if the work is expected to adversely affect finished-water quality or interrupt water service to any service connection. [Rule 62-555.350(10)(d), F.A.C.]
- Suppliers of water shall telephone, and speak directly to a person at, the appropriate DEP District Office by no later than the previous business day before taking PWS components out of operation for planned maintenance or repair work if the work is expected to adversely affect finished-water quality, interrupt water service to 150 or more service connections or 350 or more people, interrupt water service to any one service connection for more than eight hours, or necessitate the issuance of a precautionary "boil water" notice in accordance with the Department of Health's "Guidelines for the Issuance of Precautionary Boil Water Notices" as adopted in Rule 62-555.335, F.A.C. [Rule 62-555.350(10)(d), F.A.C.]

PWS ID # 3420924
Date 1/18/13

COMMENTS/REMINDERS:

- Suppliers of water shall telephone, and speak directly to a person at, the appropriate DEP District Office as soon as possible, but never later than noon of the next business day, in the event of any of the following emergency or abnormal operating conditions:
 - The occurrence of any abnormal color, odor, or taste in a public water system's raw or finished water;
 - The failure of a public water system to comply with applicable disinfection requirements; or
 - The breakdown of any water treatment or pumping facilities, or the break of any water main, in a public water system if the breakdown or break is expected to adversely affect finished-water quality, interrupt water service to 150 or more service connections or 350 or more people, interrupt water service to any one service connection for more than eight hours, or necessitate the issuance of a precautionary "boil water" notice in accordance with the Department of Health's "Guidelines for the Issuance of Precautionary Boil Water Notices" as adopted in Rule 62-555.335, F.A.C. [Rule 62-555.350(10)(b), F.A.C.]

Inspector  Title Env. Specialist II Date 2/26/13

Approved by _____ Title Environmental Manager Date 2/26/13

RESPONSE FORM**Please provide any changes to the following:**PWS ID Number: **3420074** _____

Business Name: _____

PWS Name: **City of Belleview** _____

Attention: _____

Owner(s) Name: _____

Mailing Address: _____

Mailing Address: _____

Date: _____

Phone Number(s): _____

Fax Number: _____

E-Mail Address: _____

**Florida Department of Environmental Protection
Drinking Water Compliance/Enforcement Program
3319 Maguire Boulevard, Suite 232
Orlando, Florida 32803**

Attention: Daniel Shideler, Environmental Specialist

In response to the Department's **Sanitary Survey Report** for the subject public water system dated **January 18, 2013,**
the following actions were done to correct the listed deficiencies:

**Deficiency
Item No.**

Corrective Action Done**Date Done**

_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____

(Attach additional sheet if necessary)

I hereby certify to the correctness of the above information:

PWS Owner/Representative Signature: _____

Name of PWS Owner/Representative: _____

(Please Type or Print)

DISTRIBUTION**CROSS-CONNECTION CONTROL (CCC)**

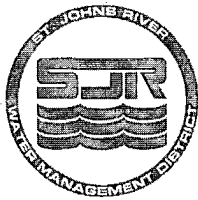
Is the Written CCC Plan Compliant (i.e., Does the Written CCC Plan Include the Following 6 Components)?		☒ Yes ☐ No
1. Legal authority for the CCC program (ordinance, bylaw or resolution, or service rules). [AWWA Manual M14, 1990; Sections 1.2 & 2.2 & Appendix B] [AWWA Manual M14, 2004; p. 13 & Appendix B] [FAC Rule 62-555.360(3)]		☒ Yes ☐ No
• Includes or references Elements 2 & 3 below?		☒ Yes ☐ No
• Establishes the right of the CWS to discontinue water service to any customer who fails to comply with the program?		☒ Yes ☐ No
• Establishes the right of the CWS to inspect any customer's potable water system for cross-connections?		☒ Yes ☐ No
2. Policy establishing where backflow protection at service connections is mandatory. [AWWA Manual M14, 1990; Section 4.1, Table 4-2, Chapter 5, & Section 6.3] [AWWA Manual M14, 2004; pp. 13 & 63-80]		☒ Yes ☐ No
• Specifies categories of customer premises & systems for which a backflow preventer (BP) is required at the service connection to the premises or system, & specifies the appropriate type(s) of BP for each such category?		☒ Yes ☐ No
• As stringent as AWWA Manual M14 (except for premises where there is auxiliary water, including reclaimed water)?		☒ Yes ☐ No
• Addresses commercial/industrial & residential premises where there is an auxiliary water system, including a reclaimed water system?		☒ Yes ☐ No
• Addresses temporary connections from fire hydrants?		☒ Yes ☐ No
3. Policy regarding ownership, installation, testing, & maintenance of BPs at service connections. [AWWA Manual M14, 1990; Sections 2.3, 2.4, & 4.2 & Chapters 7 & 8] [AWWA Manual M14, 2004; pp. 14-15 & 17-20, Chapter 4, & Appendix A]		☒ Yes ☐ No
• Specifies who (the CWS or customers) is responsible for ownership, installation, testing, & maintenance of BPs?		☒ Yes ☐ No
• Specifies design/performance standards, & installation criteria, for new BPs?		☒ Yes ☐ No
• Specifies that BP assemblies shall be tested after installation or repair & at least annually thereafter & shall be repaired if they fail a test?		☒ Yes ☐ No
o Specifies minimum qualifications for persons testing BP assemblies?		☒ Yes ☐ No
o Specifies procedures to be used for testing BP assemblies?		☒ Yes ☐ No
• Specifies frequency for refurbishing or replacing dual checks (DuCs) if DuCs are allowed/used at service connections to residential premises where there is a reclaimed water system?		☒ Yes ☐ No ☐ NA
4. Procedures for evaluating new & existing service connections to determine the need for BPs at service connections. [AWWA Manual M14, 1990; Section 2.5] [AWWA Manual M14, 2004; pp. 16-17]		☒ Yes ☐ No
• The CWS evaluates each new service connection before providing water service?		☒ Yes ☐ No
• The CWS evaluates/re-evaluates existing service connections when the customer first connects to a reclaimed water distribution system?		☒ Yes ☐ No ☐ NA
• The CWS evaluates/re-evaluates existing service connections whenever there is a change in the customer of record or at some other frequency (unless a reduced-pressure principle assembly [RP] already is installed at the service connection)?		☒ Yes ☐ No
5. Procedures for keeping CCC program records. [AWWA Manual M14, 1990; Section 2.6] [AWWA Manual M14, 2004; pp. 22-23] [FAC Rule 62-550.720(3)]		☒ Yes ☐ No
• The CWS keeps a record of the latest evaluation of each service connection?		☒ Yes ☐ No
• The CWS keeps an up-to-date inventory of all BPs installed at service connections?		☒ Yes ☐ No
• The CWS keeps for at least 10 years records of tests of BP assemblies installed at service connections?		☒ Yes ☐ No
6. For customers with a reclaimed water system, public education & inspection programs. (The public education & inspection programs may be implemented by either the CWS or the wastewater facility permittee or reuse authority.) [FAC Rules 62-555.360(5), 62-610.468(6), & 62-610.469(7)(h)]		☒ Yes ☐ No ☐ NA

Is the CCC Program Being Implemented?	☒ Yes ☐ No
--	---

Total # of RPs, double check valve assemblies (DCs), & pressure vacuum-breaker assemblies (PVBs) at Service Connections: <u>55</u>	# of RPs, DCs, & PVBs at <u>Commercial/Industrial</u> Service Connections: <u>55</u>
	# of RPs, DCs, & PVBs at <u>Residential</u> Service Connections: <u>0</u>
Total # of Service-Connection RPs, DCs, & PVBs Tested Last Year: <u>55</u>	
Total # of DuCs at Residential Service Connections: <u>3,332</u>	
Total # of Service-Connection DuCs Replaced or Refurbished Last Year: <u>0</u>	

Comments: System uses AMR dual checks at all residential connections.

APPENDIX D: Consumptive Use Permit



St. Johns River Water Management District

Kirby B. Green III, Executive Director • David W. Fisk, Assistant Executive Director

4049 Reid Street • P.O. Box 1429 • Palatka, FL 32178-1429 • (386) 329-4500

On the Internet at www.sjrwm.com.

March 10, 2009

City of Belleview
4353 SE Abshier Blvd
Belleview, FL 34420

SUBJECT: Consumptive Use Permit Number 3137
City of Belleview

Dear Sir/Madam:

Enclosed is your permit as authorized by the St. Johns River Water Management District on March 10, 2009.

Please be advised that the period of time within which a third party may request an administrative hearing on this permit may not have expired by the date of issuance. A potential petitioner has twenty-six (26) days from the date on which the actual notice is deposited in the mail, or twenty-one (21) days from publication of this notice when actual notice is not provided, within which to file a petition for an administrative hearing pursuant to Sections 120.569 and 120.57, Florida Statutes. Receipt of such a petition by the District may result in this permit becoming null and void.

Permit issuance does not relieve you from the responsibility of obtaining permits from any federal, state and/or local agencies asserting concurrent jurisdiction over this work.

The enclosed permit is a legal document and should be kept with your other important records. Please read the permit and conditions carefully since the referenced conditions may require submittal of additional information. All information submitted as compliance with permit conditions must be submitted to the nearest District Service Center and should include the above referenced permit number.

Sincerely,

Gloria Lewis, Director
Division of Regulatory Information Management

Enclosures: Permit, Conditions for Issuance, Compliance Forms, Map, Well Tags

cc: District Permit File

Agent: Barnes Ferland and Assoc Inc
3655 Maguire Blvd Suite 150
Orlando, FL 32803

GOVERNING BOARD

Susan N. Hughes, CHAIRMAN PONTE VEDRA	W. Leonard Wood, VICE CHAIRMAN FERNANDINA BEACH	Hersey "Herky" Huffman, SECRETARY ENTERPRISE	Hans G. Tanzler III, TREASURER JACKSONVILLE
Douglas C. Bournique VERO BEACH	Michael Ertel OVIDO	David G. Graham JACKSONVILLE	Arlen N. Jumper FORT MCCOY
			Ann T. Moore BUNNELL

PERMIT NO. 3137

DATE ISSUED: March 10, 2009

PROJECT NAME: City of Belleview

A PERMIT AUTHORIZING:

The District authorizes, as limited by the attached permit conditions, the use of 462.455 million gallons per year (mgy) (1.267 million gallons per day (mgd) (average)) of ground water from the Floridan aquifer for public supply type use (includes household, commercial/industrial, irrigation, water utility, unaccounted for uses), and 3.74 million gallons per day of groundwater from the Floridan aquifer for essential use (fire protection).

LOCATION:

Site: City of Belleview
Marion County

Sections:	23	Townships:	16 South	Ranges:	22 East
	29, 31		16 South		23 East
	1		17 South		22 East

ISSUED TO:

City of Belleview
4353 SE Abshier Blvd
Belleview, FL 34420

Permittee agrees to hold and save the St. Johns River Water Management District and its successors harmless from any and all damages, claims, or liabilities, which may arise from permit issuance. Said application, including all maps and specifications attached thereto, is by reference made a part hereof.

This permit does not convey to permittee any property rights nor any rights of privileges other than those specified herein, nor relieve the permittee from complying with any law, regulation or requirement affecting the rights of other bodies or agencies. All structures and works installed by permittee hereunder shall remain the property of the permittee.

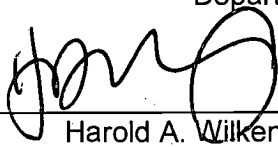
This permit may be revoked, modified or transferred at any time pursuant to the appropriate provisions of Chapter 373, Florida Statutes and 40C-1, Florida Administrative Code.

PERMIT IS CONDITIONED UPON:

See conditions on attached "Exhibit A", dated March 10, 2009

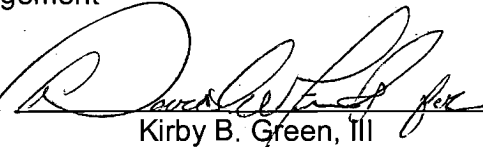
AUTHORIZED BY: St. Johns River Water Management District
Department of Resource Management

By:



Harold A. Wilkening III
Director

By:



Kirby B. Green, III
Executive Director

"EXHIBIT A"
CONDITIONS FOR ISSUANCE OF PERMIT NUMBER 3137
CITY OF BELLEVIEW
DATED MARCH 10, 2009

1. District Authorized staff, upon proper identification, will have permission to enter, inspect and observe permitted and related facilities in order to determine compliance with the approved plans, specifications and conditions of this permit.
2. Nothing in this permit should be construed to limit the authority of the St. Johns River Water Management District to declare a water shortage and issue orders pursuant to Section 373.175, Florida Statutes, or to formulate a plan for implementation during periods of water shortage, pursuant to Section 373.246, Florida Statutes. In the event a water shortage, is declared by the District Governing Board, the permittee must adhere to the water shortage restriction as specified by the District, even though the specified water shortage restrictions may be inconsistent with the terms and conditions of this permit.
3. Prior to the construction, modification, or abandonment of a well, the permittee must obtain a Water Well Construction Permit from the St. Johns River Water Management District, or the appropriate local government pursuant to Chapter 40C-3, Florida Administrative Code. Construction, modification, or abandonment of a well will require modification of the consumptive use permit when such construction, modification or abandonment is other than that specified and described on the consumptive use permit application form.
4. Leaking or inoperative well casings, valves, or controls must be repaired or replaced as required to eliminate the leak or make the system fully operational.
5. Off-site land uses existing at the time of permit application may not be significantly adversely impacted as a result of the consumptive use. If unanticipated significant adverse impacts occur, the District shall revoke the permit in whole or in part to curtail or abate the adverse impacts, unless the impacts can be mitigated by the permittee.
6. The District must be notified, in writing, within 30 days of any sale, conveyance, or other transfer of a well or facility from which the permitted consumptive use is made or within 30 days of any transfer of ownership or control of the real property at which the permitted consumptive use is located. All transfers of ownership or transfers of permits are subject to the provisions of section 40C-1.612, Florida Administrative Code.
7. A District-issued identification tag shall be prominently displayed at each withdrawal site by permanently affixing such tag to the pump, headgate, valve or other withdrawal facility as provided by Section 40C-2.401, Florida Administrative Code. Permittee shall notify the District in the event that a replacement tag is needed.
8. If the permittee does not serve a new projected demand located within the service area upon which the annual allocation was calculated, the annual allocation will be subject to modification.
9. The permittee must ensure that all service connections are metered.
10. Whenever feasible, the permittee must use native vegetation that requires little supplemental irrigation for landscaping within the service area of the project.
11. All submittals made to demonstrate compliance with the conditions issued under this permit must include the permit number 3137-4 plainly labeled on the submittal.

12. This permit will expire on November 7, 2016.
13. If the permittee has complied with all the requirements of the conditions set forth in this permit, the maximum annual groundwater withdrawals from the Floridan aquifer for public supply type use (includes household, commercial/industrial, irrigation, water utility, and unaccounted for uses) must not exceed:

349.305 mgy (0.957 mgd (average)) in 2009;
357.700 mgy (0.980 mgd (average)) in 2010;
375.220 mgy (1.028 mgd (average)) in 2011;
392.740 mgy (1.076 mgd (average)) in 2012;
409.895 mgy (1.123 mgd (average)) in 2013;
427.415 mgy (1.171 mgd (average)) in 2014;
444.935 mgy (1.219 mgd (average)) in 2015; and
462.455 mgy (1.267 mgd (average)) in 2016.

If the permittee has not complied with all the conditions of this permit, the maximum annual groundwater withdrawals for household, commercial/industrial, irrigation, water utility, and unaccounted for losses must not exceed the allocation for the year during which the violation first took place until the permittee is in compliance with all the conditions of this permit.

14. The maximum daily groundwater withdrawal from the Floridan aquifer for essential use (fire protection) is 3.74 million gallons. The District must receive documentation from the permittee within 30 days of each use of the well(s) for fire protection. The documentation must include pump or well capacity and the duration of pumping.
15. The permittee must measure the quantity of groundwater withdrawn from existing wells 4 (District ID 11341), 5 (District ID 11342), and 6 (District ID 19971), as listed in the application. Water withdrawals must be monitored at these well locations through the use of totalizing flowmeters.
16. All totalizing flowmeters must maintain 95% accuracy, be verifiable and be installed according to the manufacturer's specifications.
17. Total withdrawals from existing wells 4 (District ID 11341), 5 (District ID 11342), and 6 (District ID 19971), as listed in the application, must be recorded continuously, totaled monthly, and reported to the District at least every six months for the duration of the permit using Form No. EN-50. The reporting dates each year will be as follows:

<u>Reporting Period</u>	<u>Report Due Date</u>
January - June	July 31
July - December	January 31

18. The permittee must maintain all flowmeters. In case of failure or breakdown of any meter, the District must be notified in writing within 5 days of its discovery. A defective meter must be repaired or replaced within 30 days of its discovery.
19. The permittee must have all flowmeters checked for accuracy at least once every 3 years within 30 days of the anniversary date of permit issuance, and recalibrated if the difference between the actual flow and the meter reading is greater than 5%. District Form No. EN-51 must be submitted to the District within 10 days of the inspection/calibration.
20. All irrigation shall be conducted in accordance with the times, days, and within the manner set forth in rule 40C-2.042, Florida Administrative Code.

21. The permittee must implement the Water Conservation Plan as described and submitted to the District on November 19, 2007.
22. The permittee's consumptive use shall not adversely impact wetlands, lakes, rivers, and spring flows or cause or contribute to a violation of minimum flows and levels adopted in Chapter 40C-8, F.A.C., except as authorized by a District-approved minimum flow or level (MFL) recovery strategy. If unanticipated significant adverse impacts occur, the District shall revoke the permit in whole or in part to curtail or abate the adverse impacts, unless the impacts are mitigated by the permittee pursuant to a District-approved plan.
23. Legal uses of water existing at the time of the permit application may not be interfered with as a result of the consumptive use. If interference with other existing legal uses as a result of this permitted use occurs, the District may revoke the permit in whole or in part to abate the adverse impact unless otherwise mitigated by the permittee. If other permittees are identified by the District as also contributing to interference with an existing legal use, the permittee may choose to mitigate in a cooperative effort with those other permittees. The permittee must submit a mitigation plan to the District for approval prior to implementing such mitigation.
24. Each month the permittee shall review and analyze the actual volume of water withdrawn by the permittee in the current year. If an analysis of the actual volume withdrawn reveals that the permittee's water use is trending toward an exceedance of the permitted allocation for that year (even after taking into account seasonal variation), then within 30 days of such analysis the permittee shall notify the District in writing. The notice shall state the actual volume of water withdrawn by the permittee in each full month of the current year, the total volume of water use that has been projected for the current year, the cause(s) for trending towards an exceedance of the permitted allocation, and a corrective action plan that the permittee intends to take to prevent an exceedance of the permitted allocation.

If, in any year, the actual volume of water withdrawn by the permittee equals 95 percent or more of the amount of water allocated for use by this permit, then the permittee shall submit a report to the District that explains why the withdrawal of water by the permittee equals 95 percent or more of the amount allocated for in this permit. The report shall evaluate the effect of the following on the volume of water withdrawn by the permittee:

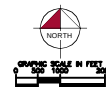
- A. Climatic shortfalls (drought);
- B. Greater than anticipated growth in the permittee's service area;
- C. Inefficient usage within the service area
- D. Other factors that account for the withdrawal volume equaling 95 percent or more of the allocation.

The report must include a breakdown of the population currently being served by the permittee, an updated projection of anticipated population that will be served for the following year, an evaluation as to whether the permittee anticipates whether it will be able to meet the water needs of the revised projected population without violating the allocations set forth in this permit, and a corrective action plan setting actions that the permittee intends to take if the evaluation indicates that allocations will be exceeded during the following year. The report must be submitted to the District by February 28th of the year following the year during which the permittee experienced withdrawals of water that equals 95 percent or more of the amount of water allocated for use by this permit.

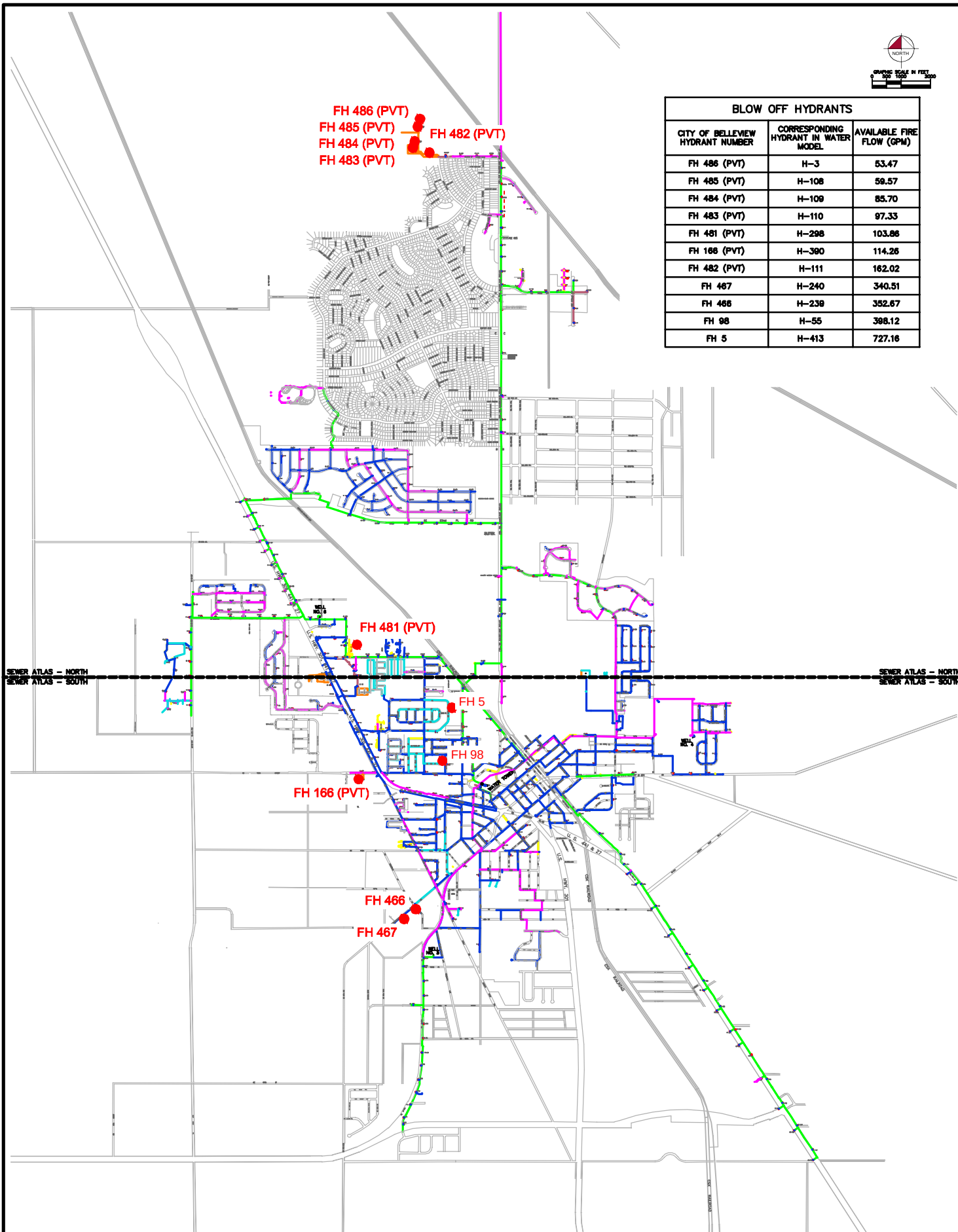
25. The permittee shall submit to the District a copy of permittee's Florida Department of Environmental Protection Annual Reuse Report by January 31st of each year for the duration of the permit.

26. The lowest quality water source, such as reclaimed water and surface/stormwater, must be used as irrigation water when deemed feasible pursuant to District rules and applicable state law.
27. The permittee shall submit to the District, a compliance report, pursuant to subsection 373.219, F.S., by July 31, 2011. The report must, at a minimum, include all the information required by the SJRWMD's "Individual and Standard General Consumptive Use Permit Application Number 40C-2.1082-1" in existence at the time the permit was issued. Additionally, the report must contain sufficient information to maintain reasonable assurances that the permittee's use of water will continue, for the remaining duration of the permit, to meet the conditions for permit issuance set forth in the SJRWMD rules that existed at the time this permit was issued. The compliance report must include:
- a) information documenting that allocations from all sources in the permit will continue to be needed for the remainder of the permit duration;
 - b) documentation verifying that the sources are capable of supplying the needs authorized by this permit without causing harm to water and water-related resources;
 - c) documentation verifying that use of water is efficient and that the permittee is implementing all feasible water conservation measures;
 - d) an updated groundwater analysis demonstrating that the use of ground water for public supply does not interfere with legal uses existing at the time of permit issuance, and does not cause unacceptable adverse impacts to wetlands and surface waters; and
 - e) information demonstrating that the lowest quality source of water, including reclaimed water, is being used to meet water demands unless the permittee demonstrates that such use is not feasible pursuant to District rules.

APPENDIX E: Blow-off Hydrant Exhibit



BLOW OFF HYDRANTS		
CITY OF BELLEVUE HYDRANT NUMBER	CORRESPONDING HYDRANT IN WATER MODEL	AVAILABLE FIRE FLOW (GPM)
FH 486 (PVT)	H-3	53.47
FH 485 (PVT)	H-108	59.57
FH 484 (PVT)	H-109	65.70
FH 483 (PVT)	H-110	97.33
FH 481 (PVT)	H-298	103.86
FH 166 (PVT)	H-390	114.26
FH 482 (PVT)	H-111	162.02
FH 467	H-240	340.51
FH 466	H-239	352.67
FH 98	H-55	398.12
FH 5	H-413	727.16



LEGEND

2" WATER MAIN	8" WATER MAIN
3" WATER MAIN	10" WATER MAIN
4" WATER MAIN	12" WATER MAIN
6" WATER MAIN	FIRE HYDRANT

APPENDIX F: Capacity Analysis

CITY OF BELLEVUE PWS CONSOLIDATED CAPACITY ANALYSIS
Facility Type - Well Pumps, Hydropneumatic Tanks, and Elevated Storage

SYSTEM PARAMETERS

Fire Flow Rate	1,000	gpm
Fire Flow Duration	2	hrs
Fire Flow Demand	120,000	gallons
Fire Flow Replenishment Rate	83.33	gpm
Average Day Demand (From May 2014 - April 2015 MOR Reports)	762,247	gpd
Average Day Demand	529	gpm
Maximum Day Demand (Calculated)	1,715,055	gpd
Maximum Day Demand (From 2014 MOR Reports)	2,073,000	gpd
Maximum Day Demand	1,191	gpm
Max Day Factor (MDF/ADF)	2.25	
Peak Hour Factor	4.50	
Peak Hour Demand (PHF x ADF)	2,382	gpm
Number of Connections (total system)	3,750	connections
Population Served (total system)	8,483	capita
Is Elevated Storage Available?	yes	"yes" or "no"
Total EST Storage Available to WTP's Service Area	500,000	gallons

NOTE:

Fire-flow demand as defined by 62-555.520(4)(a)3c is fire-flow rate times duration.

Fire replenishment rate is the fire-flow demand divided by 24 hours.

WELL CAPACITY

Criteria #1

According to FDEP Rule 62-555.315 (3), the total well capacity for a water system using only ground water shall equal at least the system's design maximum day water demand (including design fire flow demand if fire protection is being provided).

Criteria #2

In addition, for community systems serving 350 or more persons (or 150 or more service connections), the total well capacity with the largest producing well out of operation shall be equal to the design average daily flow (ADF) and preferably the design maximum daily flow (MDF).

Well Name	Location	Pumping Capacity (gpm)
Well #5	12164 SE 53rd Terrace	940
Well #6	4505 SE 100th Street	950

Criteria #1

Total Available Well Capacity	1,890	gpm
Fire-flow Demand (EST replenishment rate)	83	gpm
Net Available Total Well Capacity	1,807	gpm
Available Max Day Demand	2,601,600	gpd
Rated Capacity (MDF)	1,807	gpm
Rated Capacity (MDF)	2,601,600	gpd

Criteria #2

Total Well Capacity	1,890	gpm
Largest Well	950	gpm
Well Capacity w/ Largest Well Out of Service	940	gpm
Rated Capacity (ADF or MDF)	940	gpm
Rated Capacity Assuming ADF is met with largest well out of service (MDF)	3,045,600	GPD
Rated Capacity Assuming MDF is met with largest well out of service (MDF)	1,353,600	GPD

FINISHED WATER STORAGE CAPACITY

- Criteria #1

According to FDEP Rule 62-555.320 (19), the total useful finished-water storage capacity (excluding any storage capacity for fire protection) connected to a water system shall at least equal 25 percent of the system's maximum-day water demand, excluding any design fire-flow demand.
- Criteria #2

FDEP Rule 62-555.320 (19) also requires additional finished water storage capacity to meet the design fire flow rate for the design fire flow duration.

Storage Tank Name	Location	Type of Storage	Capacity (gallons)
Elevated Storage Tank	Lake Lilian	Elevated Storage	500,000

Criteria #1	Total Finished Water Storage Available	500,000	gallons
	Fire Flow Storage Required	120,000	gallons
	Useful Finished Water Storage Capacity	380,000	gallons
	Rated Capacity (Based on 25% of MDF)	1,520,000	gpd
Criteria #2	Fire-flow Demand (Rate x Duration)	120,000	gallons
	Total Storage Capacity	500,000	gallons
	Net Available Storage Capacity	380,000	gallons
	Rated Capacity (MDF)	1,520,000	gpd

PUMPING CAPACITY

Criteria #1

According to FDEP Rule 62-555.320 (15) (a), unless elevated finished drinking water storage is provided, the total capacity of all high-service pumping stations connected to a water system, or the capacity of booster pumping stations, shall be sufficient to meet at least the water system's, or booster station services area's, peak-hour water demand (and if fire protection is being provided, meet at least the water system's, or booster station service area's, design fire-flow rate plus a background water demand equivalent to the maximum-day demand other than fire-flow demand); and maintain a minimum system pressure of 20 pounds per square inch.

Criteria #2

According to FDEP Rule 62-555.320 (15) (b), where elevated finished drinking water storage is provided, the total capacity of all high service pumping stations shall be sufficient to meet the maximum day water demand (including design fire flow demand) and to maintain a minimum system pressure of 20 pounds per square inch.

Criteria #3

In addition, per FDEP Rule 62-555.320 (15) (b), the total capacity of the high-service pumping stations, or the capacity of the booster pumping station, **combined** with the useful elevated finished-water storage capacity shall be sufficient to meet the water system's, or the booster station service area's, peak-hour water demand for at least four consecutive hours (and if fire protection is being provided, shall be sufficient to meet the water system's, or the booster station service area's, design fire-flow rate plus a background water demand equivalent to the maximum-day demand other than fire-flow demand for the design fire-flow duration).

HSP Name	Location	Capacity (gpm)
1	12164 SE 53rd Terrace	940
2	4505 SE 100th Street	950

Criteria #1

Total HSP Pumping Capacity	N/A	gpm
HSP Pumping Capacity with Largest Unit Out of Service	N/A	gpm
Fire Flow Rate	N/A	gpm
Max Day Factor	N/A	
Peak Hour Factor	N/A	
Capacity Based on Meeting Peak Hour Demand (MDF)	N/A	gpm
Capacity Based on Meeting Fire Flow @ Max Day Demand	N/A	gpm

Criteria #2

Total HSP Pumping Capacity	1,890	gpm
HSP Pumping Capacity with Largest Unit Out of Service	940	gpm
Fire Flow Demand (Replenishment Rate)	83	gpm
Net Available Pumping Capacity	857	gpm
Potential Rated Capacity (MDF)	1,233,600	gpd

Criteria #3a

Total HSP Pumping Capacity	1,890	gpm
HSP Pumping Capacity with Largest Unit Out of Service	940	gpm
Useful EST Storage Capacity (Total)	500,000	gallons
Useful EST Storage Capacity (gpm for 4 hours)	2,083	gpm
Combined Useful EST and HSP Capacity Available for Peak Hour Flow for 4 Hours	3,023	gpm
Capacity Based on Meeting Peak Hour Flow for 4 Consecutive Hours (MDF)	2,176,800	gpd

Criteria #3b

Total HSP Pumping Capacity	1,890	gpm
HSP Pumping Capacity with Largest Unit Out of Service	940	gpm
Elevated Storage Available to WTP's Service Area	500,000	gallons
Useful EST Storage Capacity Available for Max Day Demand for the Fire Flow Duration	4,167	gpm
Combined Useful EST and HSP Capacity Available for MDF and Fire Flow Rate for Fire Flow Duration	5,107	gpm
Capacity Based on Meeting Fire Flow Rate plus MDF for Fire Flow Duration (MDF)	7,353,600	gpd