

SPRINGVILLE CITY, UTAH

PRESSURE IRRIGATION SYSTEM

MASTER PLAN & CAPITAL FACILITIES PLAN For the WEST FIELDS

February 11, 2014

Prepared by:

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SPRINGVILLE
THE ART CITY

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SPRINGVILLE CITY
Pressure Irrigation System
Master Plan & Capital Facilities Plan
For the West Fields

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II. Introduction

A. Purpose

The purpose of this plan is to develop a pressure irrigation system master plan and integrated capital facility plan for the West Fields area of Springville City. This master plan addresses future pressure irrigation infrastructure needs in general and provides planning direction to Springville City as growth and development occur. The recommendations herein are based on conclusions that were reached using growth projections and computer modeling of the City's proposed pressure irrigation system.

B. Background

Springville City has studied the current and future status of their culinary water supply system and has determined it to be in their best interest to pursue the installation of a secondary (pressure irrigation) water system. In May of 2006 Hansen, Allen & Luce, Inc. (HAL) conducted a study of the existing culinary water system and prepared a Drinking and Secondary Water Systems Master Plan. This study included the evaluation of installing a secondary water system in the City to reduce the demand on the culinary water system. The study recommended that a partial secondary water system be installed in the West Fields area. The West Fields area is a large portion of Springville City that is mostly undeveloped, which will allow a significant portion of the secondary system to be installed as development occurs. For the purposes of this master plan the West Fields area includes the area in the City's Annexation Declaration Boundary that is west of approximately 400 West. The pressure irrigation boundary shown on Figure 1-1 in Appendix A defines the West Fields area. The HAL study also recommended that future considerations be made for phase 2 (areas east of approximately 400 West) which would include a secondary water system for the already developed portions of the City (i.e. a city-wide system). During development and preparation of the HAL study, the Springville City Council considered providing secondary water service to the entire city but determined that at that time it would not pursue a secondary water system in the phase 2 area of the city. In keeping with this decision, this master plan does not address the Phase 2 area indicated in the HAL report.

Although not specifically studied or addressed as part of this master plan, there are a few locations beyond the proposed West Fields service boundary where development has installed pressure irrigation improvements (see Figure 1-2 in Appendix A). These locations include parts of Cherrington, Hunters Valley, areas on the east bench, and some residential and business areas in the north end of the City. Although there are some existing pressure irrigation improvements in these areas, currently there is neither equalization storage nor a source of water to supply them.

Not all improvements outside of the West Fields service boundary have been identified so far as line size, pipe material, valves, capacities, etc. If the City decides to provide service to these areas at some point in the future, additional field verification, modeling, analysis, planning and design will need to be completed in order to address supplying and conveying water to these areas. If service is provided only to these areas (not as a part of HAL defined Phase 2, I.e. City wide system) the

infrastructure costs to do so would be significant compared to the small number of potential system users.

According to the HAL 2006 Master Plan, with the upgrade of the Canyon Road Well, the existing culinary water system at the time would have been able to meet all of the State of Utah Public Drinking Water Standards for Springville City (as of 2006). As development continues to occur within the City, more demand on the culinary water system will require that additional water rights be transferred into the City's existing wells, which have limited capacity. Additional wells can be added to the system but will come at a large expense to install, operate and maintain. In order to help limit the amount of culinary water needed in the system, the installation of a partial pressure irrigation system to provide for the outside watering needs for the West Fields area will significantly help to relieve future demands on the culinary system. Information in tables within the HAL Master Plan show that at build out, the partial (West Fields) pressure irrigation system will decrease city-wide culinary water demand by 26% to 29% from the scenario where no pressure irrigation system were installed and the culinary system would need to supply all watering needs (indoor and outdoor).

In August of 2010 J-U-B Engineers, Inc. (J-U-B) prepared a Pressure Irrigation, Feasibility Study for Springville City. Two purposes of that study were: 1) to study the feasibility of a pressure irrigation system in the West Fields area and 2) to assist Springville City in applying for a grant from the Central Utah Water Conservancy District (CUWCD, (AKA: CUP)) Water Conservation Credit Program funding. The proposed project in the feasibility study included an irrigation pond, a main transmission line from the mouth of Hobble Creek Canyon down to the West Fields area, a transmission line from the Highline Ditch to the pond, and the installation of pipes to connect the existing pipes to each other in the West Fields.

In exchange for a portion of Springville City's South Utah Valley Municipal Water Association (SUVMWA) water allotment, CUP has agreed to fund a portion of the startup system (see Section III) through a grant. It is anticipated, as indicated in the 2010 Feasibility Study, that funding for the startup system infrastructure will be provided through a combination of grant monies and City funding.

C. Scope

This master plan includes a discussion of system modeling efforts and summary results, capital facilities planning and implementation of a pressure irrigation system in the West Fields area, to build-out. Based on the model findings, the master plan includes an implementation plan with recommended capital improvement projects. The capital improvement projects portion of the plan includes planning level cost estimates for the recommended improvements.

This plan includes conclusions and recommendations that are limited to the accuracy of the modeling, growth projections and other assumptions. It is recommended that, in the future, the City review and update this master plan as needed in order to amend projections and update data as necessary.

D. Plan Outline

Data sources used in the preparation of this master plan include the two previously cited studies prepared by HAL & J-U-B, GIS information and water source data provided by the City and future land use planning and zoning information from the current Springville City General Plan.

This master plan is organized into seven sections, including:

1. Introduction (Section II)
2. Master plan service area (Section III)
3. System level of service (Section IV)
4. System evaluation and modeling (Section V)
5. Startup and build-out water sources (Section VI)
and water rights discussion
6. System storage (Section VII)
7. Capital improvement projects (Section VIII)

Additional detail of plan organization is provided in the Table of Contents.

E. Master Plan Objectives

The objectives of this master plan are to:

1. Evaluate startup system operation and build-out scenarios using the computer model
2. Determine system demand, required supply and required storage for both startup operation as well as build-out conditions
3. Determine approximate layout and sizing of major system components
4. Determine future system capital improvements and costs
5. Provide clear direction to Springville City for planning and future improvement projects necessary as growth occurs
6. Make recommendations for implementation of the pressure irrigation system

III. Master Plan Service Area

This master plan addresses the implementation of a pressure irrigation system in the West Fields portion of Springville City (See PI System Boundary Figure 1-1). Providing service to the developed portions of Springville (primarily east of 400 West) is **not** addressed in this master plan.

A system startup scenario for the West Fields area is shown in Figure 1-1. This Figure shows the infrastructure that is either existing or will be installed for the operation of the initial West Fields pressure irrigation system. The initial startup system is planned to begin operating in the spring of 2016. As of the date of this master plan, only the existing infrastructure shown on Figure 1-1 has been installed. The lines labeled as Phase I on Figure 1-1 will be installed with a future project funded through the CUP.

This master plan addresses planning and City infrastructure needs beginning at the startup system up through final build-out. Figure 1-2 shows the build-out pressure irrigation system for the West Fields area.

IV. Level of Service

This plan identifies a specific level of service provided for the system. The necessary system improvements listed in this plan will allow the City to provide new users with the same level of service as the initial system users at project startup. The level of service criterion for the pressure irrigation system is defined as follows:

A. Minimum Pressure at Peak Demands

The distribution system was designed with the ability to maintain a minimum pressure of 40 psi during peak instantaneous demand (8.00 gpm per irrigated acre).

B. Minimum Storage

The system storage facility was designed to the State of Utah standard for outdoor watering needs for peak day demands. The peak day demands were estimated to be 4.00 GPM per irrigated acre.

C. Ability of the System to Meet Peak Demands

The overall system was designed to meet peak demands. This was accomplished by appropriately sizing pipes to meet peak demands while maintaining a maximum velocity to avoid damage to the system infrastructure. The maximum velocity for water in the pipes used for modeling the system was 5 feet per second.

V. System Evaluation & Modeling

A. Evaluation of System

Both the startup and build-out condition scenarios discussed in this report were evaluated using the computer hydraulic model. System demands were evaluated using the outdoor water use component of the Utah Division of Drinking Water Rule R309-510-5(3) with a peak day demand of 4.00 GPM per irrigable acre. A peaking factor of 2 was used to calculate a peak instantaneous flow rate of 2.76 CFS for the System startup condition and a peak day flow rate of 33.01 CFS at build-out.

There are approximately 155 acres of irrigable land within the initial reach of the project to be serviced with the startup system. The total estimated irrigable land when the system is built out is 1,852 acres.

The startup pressure irrigation system will initially provide service for a small number of residential units (approximately 955) and a few commercial lots, churches and parks.

B. Level of Service

The startup and build-out systems will provide a level of service that meets, or exceeds, the criterion and measurements outlined and described in Section IV - Level of Service.

C. System Deficiencies

The startup system will have no deficiencies with regard to providing the designated level of service to the initial service area connections.

The industrial and commercial areas located in the northeast corner of the build-out West Fields system boundary (see figure 1-3 in Appendix A) will have system deficiencies. Significant system improvements will be required to provide service in this industrial and commercial area. A list of improvements to address these needed system improvements is included as a capital improvement project in this plan.

D. Computer Modeling

A computer model was developed for the system using InfoWater[®], a graphically-based water modeling software that runs within ArcGIS. The model uses essential hydraulic data input to simulate the effect it has on the system under a specified scenario. The types of data used for the model include the graphical layout and connectivity of the system, pipe lengths, pipe diameter, pipe roughness (Hazen-Williams coefficient), demand at each node, and elevation of each node. Given the required data, the model determines the flow through each pipe and the pressure at each node that will result when the system meets the given demand at each node. No calibration was done on the model since the system is not currently in operation.

The layout and connectivity of the system as well as the pipe diameters can be determined from Figure 2-1 “Model Information – Demand Nodes” in Appendix B. The Hazen-Williams roughness coefficient used for all pipes in the model is 140. Figure 2-1, also shows all demand nodes for the build-out system with their corresponding ID labels.

The demand at each node was determined by dividing the entire service area into separate demand regions and then assigning the calculated demand for each region to a node. The demand for each region was calculated by determining the acreage of each type of land use zone from the City’s General Plan within the region and then multiplying that acreage by a land use factor used to determine the amount of irrigable acreage per gross acreage for a specified land use. The factors used as well as the resultant peak demand per acre are shown in the following table:

Zone	Land Use Factor (Irrigable Acre/Acre)	Peak Instantaneous (GPM/Irrigable AC)
Agricultural	0.60	4.80
Cemetery	0.90	7.20
Commercial	0.15	1.20
Commercial / Residential Option	0.25	2.00
Golf Course	1.00	8.00
Industrial Manufacturing	0.10	0.80
Low Density Residential	0.39	3.12
Medium Density Residential	0.31	2.48
Medium High Density Residential	0.30	2.40
Medium Low Density Residential	0.36	2.88
Mixed Use	0.15	1.20
Parks	1.00	8.00

TABLE 1 – LAND USE FACTORS

Figure 2-2 “Model Information – Demand Regions” in Appendix B shows the designated demand regions for the system along with the City’s General Plan land designations. Table 3-1 (see Appendix B) “Model Information” gives the relevant information for each demand region and node, including a land use acreage breakdown for each demand region with its corresponding demand node and the elevation of that node.

VI. Water Sources

A. Existing Sources

Springville City currently owns sufficient water shares in the Springville Irrigation Company (SIC) to provide for the demands required of the initial startup system. The City’s shares in SIC will also provide some additional source water shares that can be applied towards build-out system demands, but currently not all of the needed water shares have been acquired. The City also has water shares in multiple deep wells and springs although these sources are not currently planned to be used in the pressure irrigation system. A summary of Springville City’s culinary and secondary water rights can be found in Appendix C.

Due to the variable flows that can occur from most sources redundancy and flexibility should be planned and built into the system. For example during a very wet year Hobble Creek may be able to provide sufficient water into the system well into the month of July. During a dry year however, Hobble Creek may only be able to provide sufficient water into the system through May. The system must be designed to allow for fluctuations in the flow rates from the different sources.

It is anticipated that water to meet startup system demands will be provided using Springville City’s existing shares in Springville Irrigation Company (SIC). This water from SIC will be diverted into the system at two locations: 1) the “City Diversion” located on Hobble Creek a short distance above the existing debris basin and 2) the Mapleton/Springville Lateral which will be connected to the 36” main line out of the pond. At startup Springville City anticipates approximately 1-2 cfs from

each of these two diversions being available for West Fields system use, as a worst case scenario, in a very dry year, or possibly in consecutive dry years.

B. Startup Source Requirements

Approximately 3 cfs is required in order to provide sufficient water for startup system demands under peak day conditions. Between the two water source diversions listed above in Part A “Existing Sources”, there is sufficient water to provide for the required startup system demand. The City anticipates that the startup system will have no deficiencies with regard to providing adequate water supply for the initial service area.

C. Build-out Source Requirements

As discussed above, there are sufficient sources to provide for the startup system demands, but no excess water, especially during dry years. Therefore, the system will require additional water sources as more services are added in order to meet system demands. Future sources will need to be able to supply water, at build-out, at a constant rate of 19 cfs (peak day demand) for the West Fields area.

D. Recommendations

There are multiple water sources that should be pursued, acquired and developed in order to meet future demands to build out. A list of potential sources is given below. Several of the sources listed below have an approximate anticipated flow rate associated with each source. The flow rates shown were estimated by SIC during discussions with them during preparation of this plan.

- Hobble Creek at the Swenson Diversion (7cfs)
- Hobble Creek at City Diversion & piping of the Highline Ditch (13cfs)
- Dry Creek (4 cfs)
- Packard Drain (2 cfs)
- Madsen Well
- Little Spring Creek
- Hobble Creek at the Island Diversion
- Hobble Creek at the Sage Creek Diversion
- Re-use of effluent from Springville City’s Waste Water Treatment Plant (WWTP) (Requires significant upgrades to the treatment plant)
- Use of SUVMWA water through the turnout provided by CUWCD near 400 South 400 East
- Additional Strawberry water through the Mapleton/Springville Lateral

These potential sources are not listed in any particular order of necessity or priority. In order to develop and implement each one of these sources, additional study and evaluation will need to be conducted.

In order to address the projected 10 year demands on the system, an Impact Fee Facility Plan (IFFP) prepared by J-U-B concurrent with this plan, addresses the need to construct source water improvements, specifically the Highline Ditch piping and the Swenson diversion as development begins to occur. Both of these sources were

evaluated as part of the development of this master plan and the IFFP. A description of these two projects can be found in that document.

Discussions with SIC led to the conclusion that providing adequate source for the startup system can be met with the existing diversions, ditches, pipelines, etc. These are existing City and SIC facilities that are expected to feed into the proposed irrigation reservoir. This is only the case because of the small amount of demand required for the startup system. It will be critical that source water into the system be maximized early in the spring from Hobbles Creek as the West Fields area further develops. This will facilitate SIC delaying use of Strawberry storage water through the Mapleton/Springville lateral until later in the irrigation season.

Currently during normal and dry years, in order to meet demands in the SIC irrigation system (not the City's pressure irrigation system) use of water from Strawberry reservoir through the Mapleton/Springville lateral is generally diverted starting very early in the season because of the limited amount of flow that can be diverted from Hobbles Creek into the Highline Ditch. If the Highline ditch is piped and its capacity increased significantly, a majority of the SIC upper system demands could be met during the early part of the irrigation season using this source. This would allow the valuable Strawberry storage water from the Mapleton/Springville lateral to be used later in the irrigation season when Hobbles Creek flows diminish.

Because the anticipated primary sources into the system will be the Highline Ditch and the Mapleton/Springville Lateral the Highline Ditch piping is a necessary project for the City as well to ensure future source water into the system later in the irrigation season.

It was determined, based on planning discussions with SIC, that the Highline ditch piping and the Swenson pump station project are the preferred projects to address immediate source needs during the next 10 years as growth occurs in the West Fields area. It was also determined that two pump stations (Dry Creek and Packard Drain) should be the next two sources for the City to develop, past the 10 year horizon window.

With all of these sources (City Hobbles Creek Diversion & Piped Highline Ditch, Mapleton/Springville Lateral, Swenson, Dry Creek & Packard Drain) the City should be able to meet build-out demand of 19 cfs for the West Fields pressure irrigation system.

VII. System Storage

A. Storage Facility

The pressure irrigation system will utilize the proposed Bartholomew Pond for system equalization storage. The Bartholomew Pond will have approximately 34 acre-feet of volume. The amount of the storage volume in the Pond that is intended to be used for the West Fields pressure irrigation system at system build out is approximately 14 acre-ft. The volume needed at system startup is approximately 2 acre-ft.

The pond was oversized for several reasons; 1) it is planned to be used as both a recreational facility and a pressure irrigation storage reservoir. 2) if the City decides in the future to expand the pressure irrigation service area beyond the West Fields area (east of 400 West) the proposed irrigation reservoir would provide sufficient storage capacity to service an additional portion of the already developed area of the City.

If the City decides to service a portion of the developed area of the City that is to the east of 400 West, the proposed design of the irrigation reservoir and piping would allow servicing of this area up to the boundary labeled “40 PSI Service Boundary” on Figure 1-1. The amount of the storage volume in the irrigation reservoir necessary to service the area up to the 40 PSI service boundary is approximately 19 acre-ft. The proposed size of the irrigation reservoir accounts for this volume in its design.

B. System Storage Requirements

The amount of the system storage required for at build-out of the West Fields system is 14 acre-ft.

C. Storage Deficiencies

It is anticipated that the irrigation reservoir will have no deficiencies with regard to providing the designated level of service to all users up through build-out.

D. Recommendations

Springville City should maintain and operate the irrigation reservoir in an efficient and effective manner in order to provide for adequate system storage up through build-out.

VIII. Capital Improvements

A. Improvements

As discussed previously, at system startup there is one area of the City that is mostly developed that will require capital improvements in order to be able to provide service to existing residents and businesses within the West Field system boundary. That area is the industrial and commercial area in the northeast corner of the West Fields service boundary. See Figure 1-3 for a map of these improvements. A list of necessary improvements to provide service to this area is included below. Additional system improvements that are necessary and are directly related to growth are addressed in the IFFP.

Springville City Pressure Irrigation				
Cost for distribution lines and services				
Capital Facilities in Northeast Industrial and Commercial Zone				
DESCRIPTION	UNIT	QUANTITY	UNIT COST	AMOUNT
Pipe and Fittings				
6"	LF	29,586	\$ 18.00	\$532,548.00
SUBTOTAL PIPE COSTS				\$532,548.00
Valves				
6"	EA	30	\$ 1,000.00	\$30,000.00
SUBTOTAL VALVE COSTS				\$30,000.00
Trenching				
Asphalt Replacement w/ Roadbase	SF	88,758	\$ 3.00	\$266,274.00
Pipe Foundation	TON	500	\$ 11.00	\$5,500.00
Pipe Embedment	TON	6,931	\$ 15.00	\$103,959.19
Final Backfill	TON	3,328	\$ 11.00	\$36,612.68
SUBTOTAL TRENCHING COSTS				\$412,345.87
SUBTOTAL OF CONSTRUCTION COSTS				\$974,893.87
Engineering & Contingency Costs				
Engineering Costs (20% of construction costs)				\$194,978.77
Contingency Costs (20% of construction costs)				\$194,978.77
SUBTOTAL OF ENGINEERING & CONTINGENCY COSTS				\$389,957.55
TOTAL OPINION OF COSTS				\$1,364,851.42

TABLE 2 – CAPITAL FACILITIES NORTHEAST INDUSTRIAL & COMMERCIAL ZONE

B. Funding Sources

There are a number of possible funding sources the City could use to fund the above listed capital improvements in the industrial and commercial areas, they are:

- General City Water Funds
- User Fees
- Bonds
- Loans

The City should pursue funding options as they see necessary for planning and constructing these improvements.

C. Recommendations

The City should implement these improvements as funding can be identified and appropriated for constructing them.

APPENDICES

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APPENDIX A
SYSTEM MAPS

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Springville City, Utah
 Pressure Irrigation System
 System Startup
 Figure 1-1

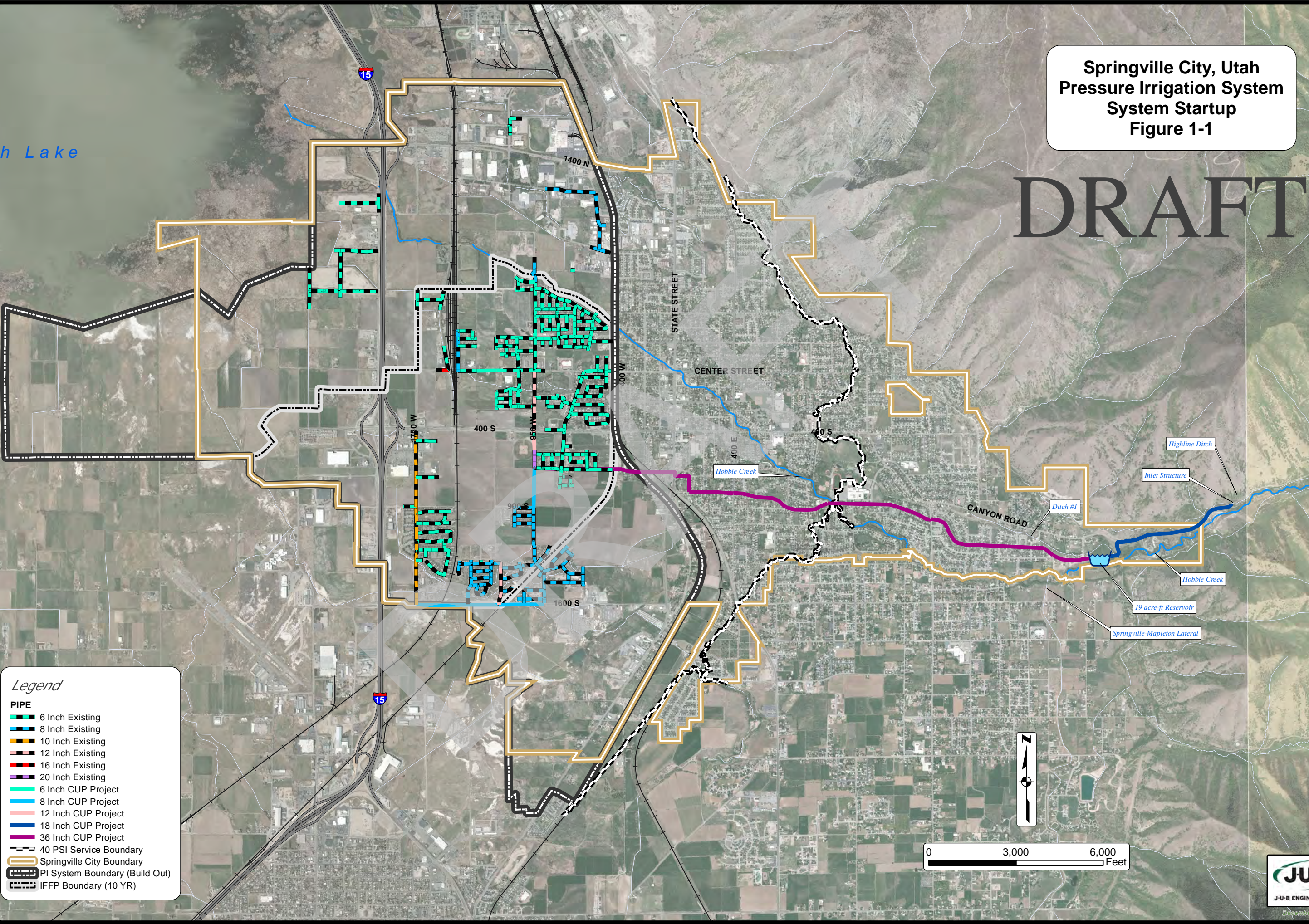
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Utah Lake

Legend

PIPE

- 6 Inch Existing
- 8 Inch Existing
- 10 Inch Existing
- 12 Inch Existing
- 16 Inch Existing
- 20 Inch Existing
- 6 Inch CUP Project
- 8 Inch CUP Project
- 12 Inch CUP Project
- 18 Inch CUP Project
- 36 Inch CUP Project
- 40 PSI Service Boundary
- Springville City Boundary
- PI System Boundary (Build Out)
- IFFP Boundary (10 YR)



Highline Ditch

Inlet Structure

Ditch #1

Hobbie Creek

19 acre-ft Reservoir

Springville-Mapleton Lateral

Hobbie Creek

CANYON ROAD

CENTER STREET

STATE STREET

1400 N

700 W

400 S

950 W

900 S

1600 S

750 W

15

15

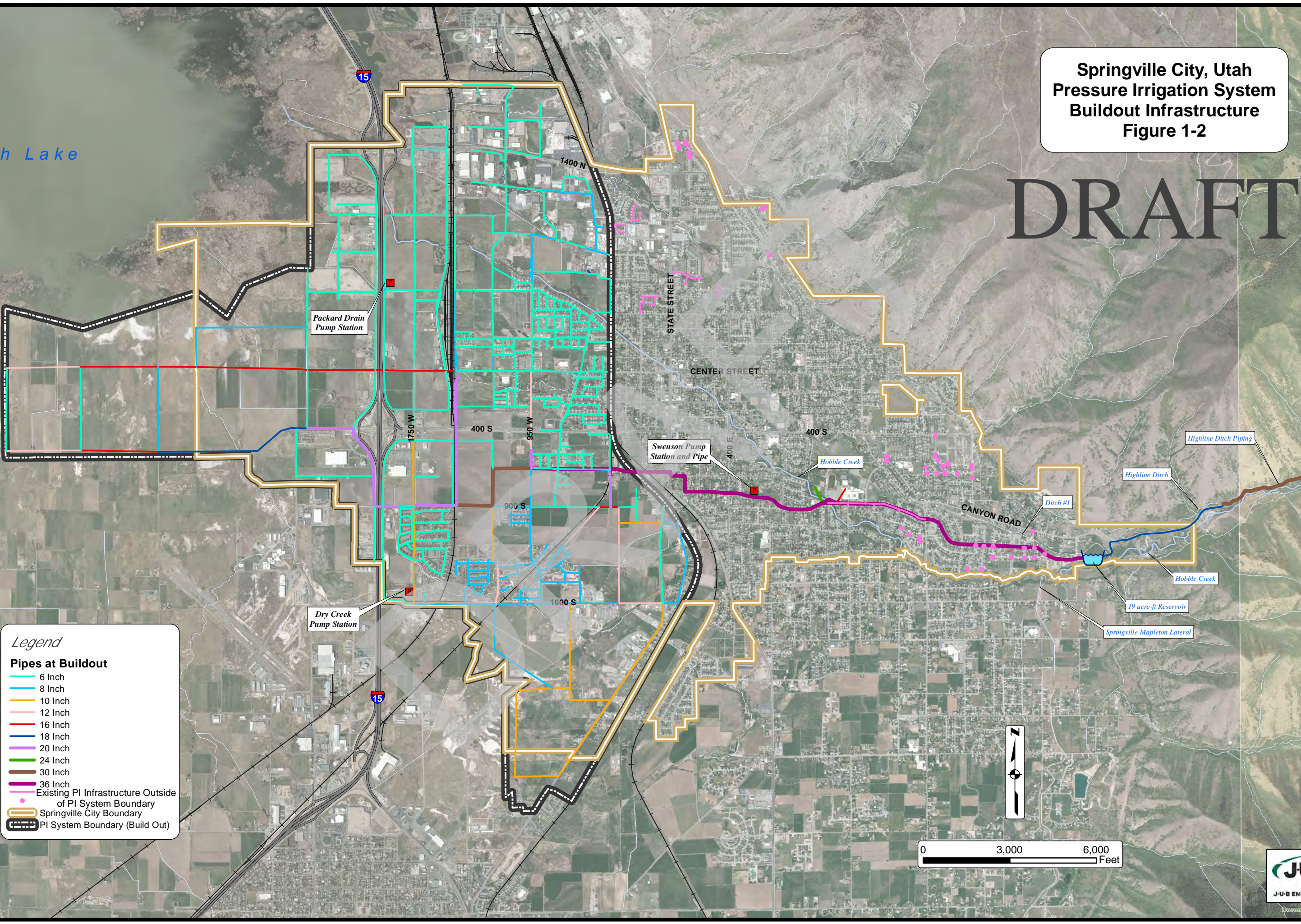


December 2012

Springville City, Utah
 Pressure Irrigation System
 Buildout Infrastructure
 Figure 1-2

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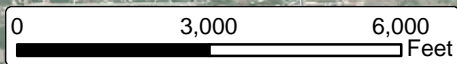
Utah Lake



Legend

Pipes at Buildout

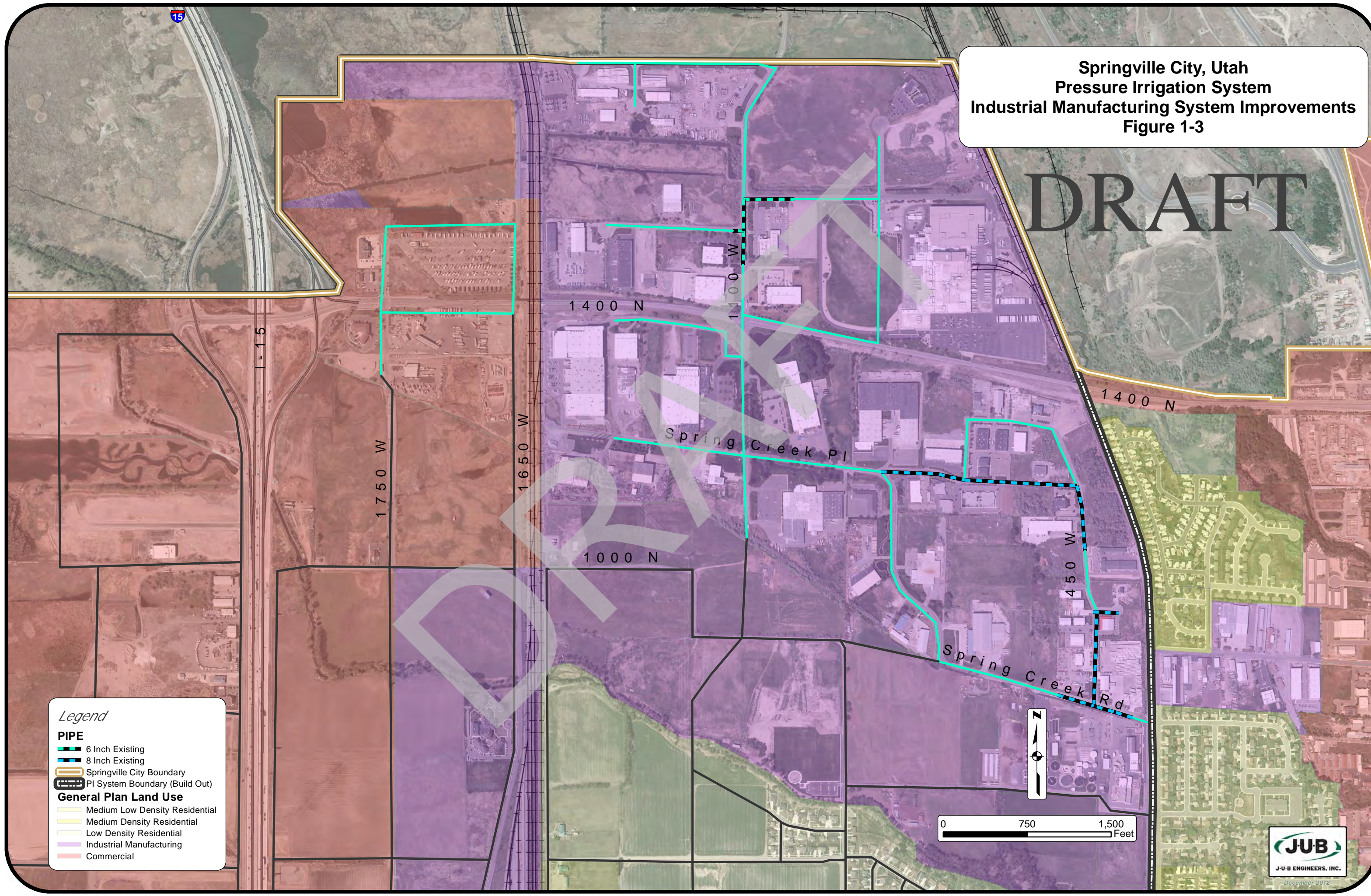
- 6 Inch
- 8 Inch
- 10 Inch
- 12 Inch
- 16 Inch
- 18 Inch
- 20 Inch
- 24 Inch
- 30 Inch
- 36 Inch
- Existing PI Infrastructure Outside of PI System Boundary
- Springville City Boundary
- PI System Boundary (Build Out)



December 2012

Springville City, Utah
 Pressure Irrigation System
 Industrial Manufacturing System Improvements
 Figure 1-3

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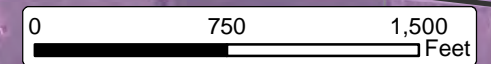
Legend

PIPE

- 6 Inch Existing
- 8 Inch Existing
- Springville City Boundary
- PI System Boundary (Build Out)

General Plan Land Use

- Medium Low Density Residential
- Medium Density Residential
- Low Density Residential
- Industrial Manufacturing
- Commercial



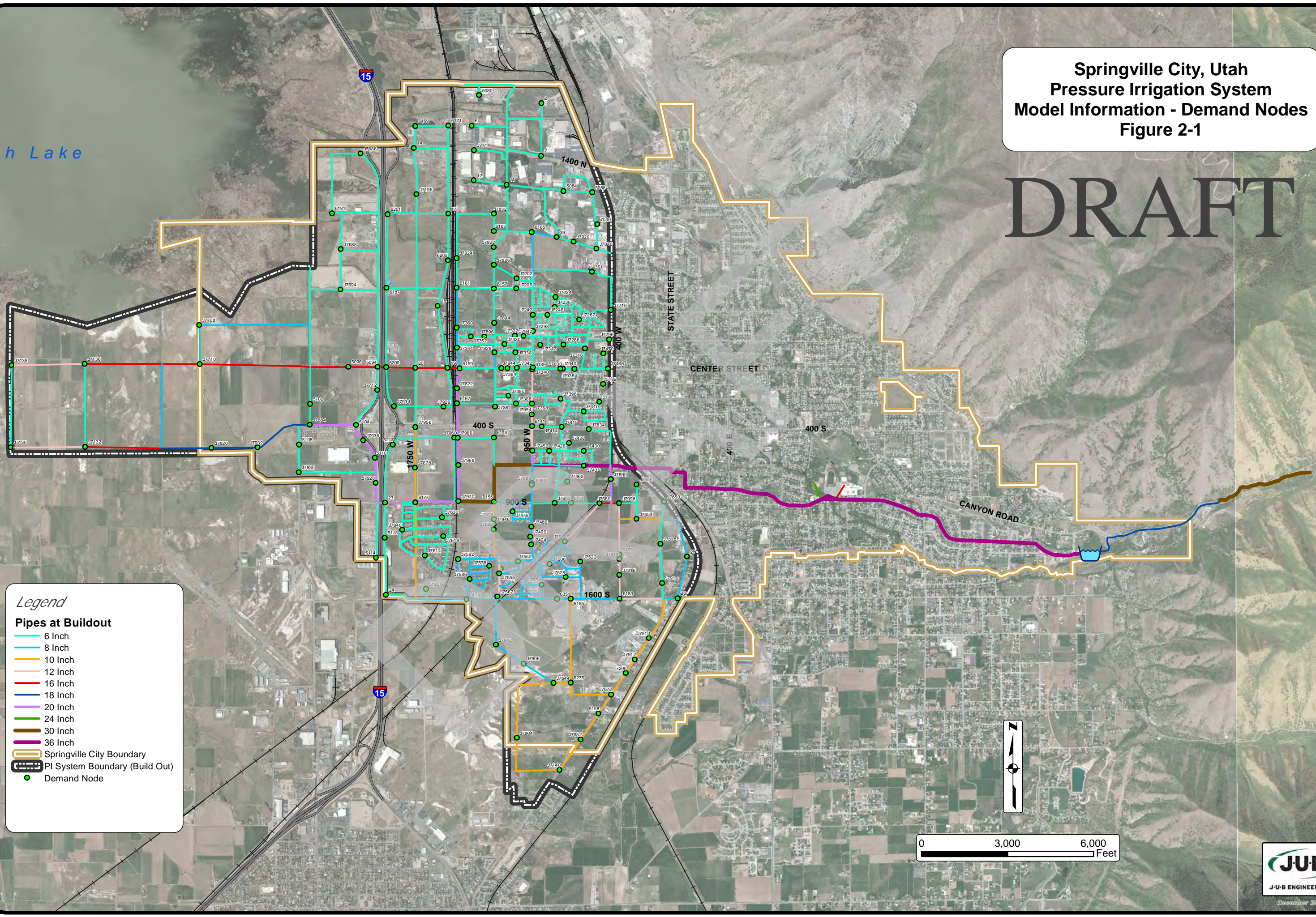
APPENDIX B
MAPS AND MODELING DATA

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Springville City, Utah
 Pressure Irrigation System
 Model Information - Demand Nodes
 Figure 2-1

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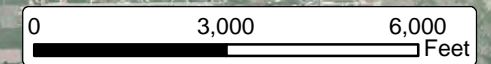
Utah Lake



Legend

Pipes at Buildout

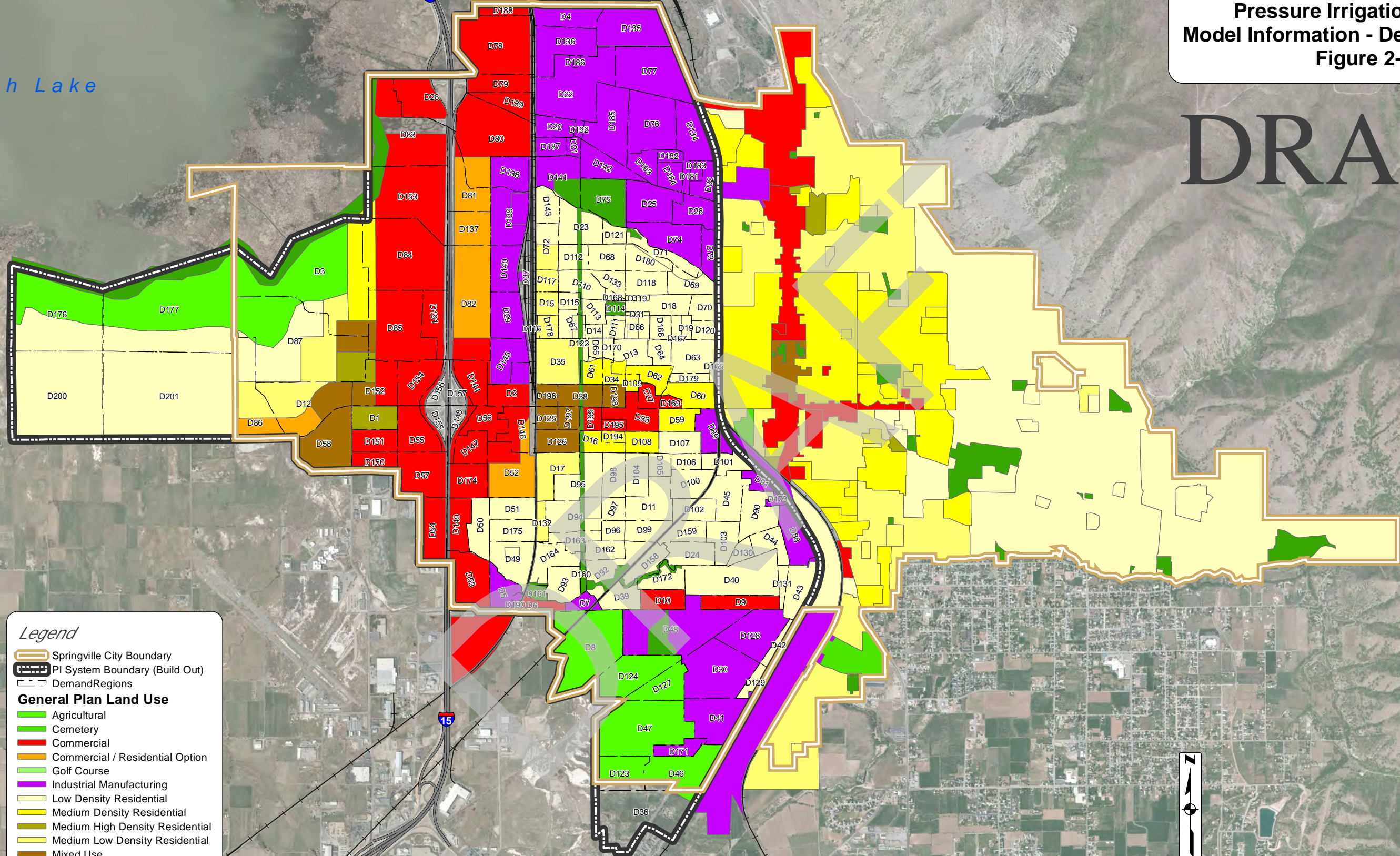
- 6 Inch
- 8 Inch
- 10 Inch
- 12 Inch
- 16 Inch
- 18 Inch
- 20 Inch
- 24 Inch
- 30 Inch
- 36 Inch
- Springville City Boundary
- PI System Boundary (Build Out)
- Demand Node



Springville City, Utah
 Pressure Irrigation System
 Model Information - Demand Regions
 Figure 2-2

DRAFT

Utah Lake



Legend

- Springville City Boundary
- PI System Boundary (Build Out)
- DemandRegions
- General Plan Land Use**
- Agricultural
- Cemetery
- Commercial
- Commercial / Residential Option
- Golf Course
- Industrial Manufacturing
- Low Density Residential
- Medium Density Residential
- Medium High Density Residential
- Medium Low Density Residential
- Mixed Use
- Parks

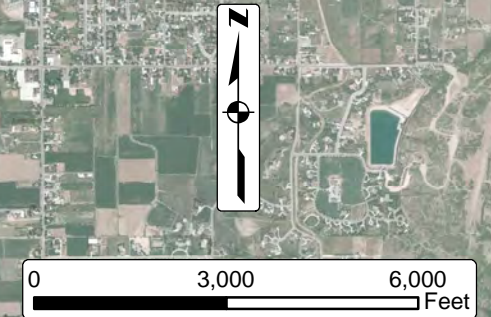


TABLE 2-1 - MODEL INFORMATION

Demand Region	Land Use Acreage											Irrigable Land (AC)	Calculated Demand (GPM)	Demand Node	Elevation (FT)
	Agricultural	Commercial	Commercial / Residential Option	Industrial Manufacturing	Low Density Residential	Medium Density Residential	Medium High Density Residential	Medium Low Density Residential	Mixed Use	Parks	Grand Total				
D1	0.00	0.29	0.00	0.00	0.00	0.00	21.21	0.00	0.28	0.00	21.79	6.45	51.60	J7684	4503.00
D2	0.00	18.68	0.00	7.88	0.00	0.00	0.00	0.00	0.00	0.00	26.56	3.59	28.72	J7926	4513.00
D3	92.35	0.00	0.00	0.00	4.49	36.65	0.00	13.52	9.75	30.03	186.80	104.89	839.11	J7708	4490.00
D4	0.00	0.00	0.00	30.44	0.00	0.00	0.00	0.00	0.00	0.00	30.44	3.04	24.35	5080	4498.00
D5	0.00	0.05	0.00	20.79	0.00	0.00	0.00	0.00	0.00	0.00	20.84	2.09	16.69	5120	4518.00
D6	0.27	10.16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	10.44	1.70	13.60	7175	4525.09
D7	0.31	0.00	0.00	8.43	0.00	0.00	0.00	0.00	0.00	0.00	8.74	1.03	8.24	J7562	4528.00
D8	95.81	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	95.82	57.49	459.92	J7642	4537.00
D9	0.00	22.65	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	22.65	3.40	27.18	6183	4557.00
D10	0.00	18.10	0.00	0.01	0.15	0.00	0.00	0.00	0.00	0.00	18.26	2.77	22.20	6351	4539.00
D11	0.00	0.00	0.00	0.00	31.95	0.00	0.00	0.00	0.00	0.00	31.95	12.46	99.67	J7662	4538.00
D12	0.00	0.00	16.55	0.00	0.00	0.00	0.18	33.12	21.58	0.00	71.43	19.35	154.83	J7932	4502.00
D13	0.00	0.00	0.00	0.00	17.88	3.71	0.00	0.00	0.00	0.00	21.58	8.12	64.97	6139	4526.57
D14	0.00	0.00	0.00	0.00	5.08	0.00	0.00	0.00	0.00	0.00	5.08	1.98	15.84	J7364	4518.00
D15	0.00	0.00	0.00	0.00	0.01	0.00	0.00	10.38	0.00	0.00	10.39	3.74	29.94	J7352	4507.00
D16	0.00	0.00	0.00	0.00	0.00	12.63	0.00	0.00	0.08	1.74	14.46	5.67	45.36	J7452	4527.00
D17	0.00	0.00	0.00	0.00	0.00	0.00	0.00	28.30	0.00	0.00	28.30	10.19	81.50	J7970	4514.00
D18	0.00	0.00	0.00	0.00	22.40	0.00	0.00	0.00	0.00	0.00	22.40	8.74	69.88	J7286	4536.90
D19	0.00	0.00	0.00	0.00	5.29	0.00	0.00	0.00	0.00	0.00	5.29	2.06	16.49	J7316	4539.91
D20	0.00	0.00	0.00	15.81	0.00	0.00	0.00	0.00	0.00	0.00	15.81	1.58	12.64	12	4501.00
D21	0.00	0.00	0.00	5.72	0.00	0.00	0.00	0.00	0.00	0.00	5.72	0.57	4.58	J7832	4504.00
D22	0.00	0.00	0.00	81.22	0.00	0.00	0.00	0.00	0.00	0.00	81.22	8.12	64.98	J7714	4498.00
D23	0.00	0.00	0.00	0.00	28.51	0.00	0.00	0.00	0.00	3.77	32.28	14.89	119.13	J7826	4507.00
D24	0.00	0.00	0.00	0.00	22.79	0.00	0.00	0.00	0.00	0.92	23.71	9.81	78.47	J7522	4532.67
D25	0.00	0.00	0.00	38.70	0.00	0.00	0.00	0.00	0.00	0.00	38.70	3.87	30.96	39	4514.00
D26	0.00	0.00	0.00	24.75	0.00	0.00	0.00	0.00	0.00	0.00	24.75	2.48	19.80	J7010	4520.00
D27	0.00	10.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	10.00	1.50	12.00	J7414	4533.92
D28	0.00	35.61	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	35.61	5.34	42.73	J7686	4494.00
D29	0.00	0.00	0.00	29.72	0.00	0.00	0.00	0.00	0.00	0.00	29.72	2.97	23.78	19	4504.69
D30	0.00	0.00	0.00	66.55	0.00	0.00	0.00	0.00	0.00	0.00	66.55	6.65	53.24	7200	4610.90
D31	0.00	0.00	0.00	0.00	1.95	0.00	0.00	0.00	0.00	0.00	1.95	0.76	6.09	J7312	4526.77

TABLE 2-1 - MODEL INFORMATION

Demand Region	Land Use Acreage											Irrigable Land (AC)	Calculated Demand (GPM)	Demand Node	Elevation (FT)
	Agricultural	Commercial	Commercial / Residential Option	Industrial Manufacturing	Low Density Residential	Medium Density Residential	Medium High Density Residential	Medium Low Density Residential	Mixed Use	Parks	Grand Total				
D32	0.00	0.00	0.00	15.75	0.00	0.00	0.00	0.00	0.00	0.00	15.75	1.58	12.60	7040	4516.00
D33	0.00	25.08	0.00	0.00	0.00	0.02	0.00	0.00	0.00	0.00	25.09	3.77	30.13	6141	4533.00
D34	0.00	0.00	0.00	0.00	0.01	7.63	0.00	0.00	0.03	0.00	7.66	2.37	18.97	J7388	4525.00
D35	0.00	0.00	0.00	0.00	1.81	0.00	0.00	38.94	0.00	2.25	43.01	16.98	135.85	J7822	4508.00
D36	4.51	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	4.51	2.70	21.63	J7140	4612.00
D37	0.00	0.00	0.00	4.58	0.00	0.00	0.00	0.00	0.00	0.00	4.58	0.46	3.67	J7360	4504.00
D38	0.00	0.05	0.00	0.00	0.00	0.01	0.00	0.00	18.55	1.83	20.45	4.63	37.01	J7726	4545.00
D39	0.00	0.00	0.00	0.00	17.63	0.00	0.00	0.00	0.00	0.65	18.28	7.53	60.23	J7534	4538.00
D40	0.00	0.00	0.00	0.03	64.61	0.00	0.00	0.00	0.00	0.00	64.64	25.20	201.61	J7816	4553.00
D41	0.01	0.00	0.00	47.47	0.04	0.00	0.00	0.00	0.00	0.00	47.53	4.77	38.16	J7672	4615.00
D42	0.00	0.00	0.00	0.04	10.38	0.00	0.00	0.00	0.00	0.00	10.42	4.05	32.41	J7910	4606.00
D43	0.00	0.00	0.00	0.96	28.89	0.00	0.00	0.00	0.00	0.00	29.85	11.36	90.92	26	4600.50
D44	0.00	0.00	0.00	0.00	17.79	0.00	0.00	0.00	0.00	0.00	17.79	6.94	55.50	J7818	4560.00
D45	0.00	0.00	0.00	0.00	30.07	0.00	0.00	0.00	0.00	0.00	30.07	11.73	93.83	J7098	4557.00
D46	47.11	0.00	0.00	0.39	0.00	0.00	0.00	0.00	0.00	0.00	47.51	28.31	226.46	J7952	4618.00
D47	92.04	0.00	0.00	0.02	0.00	0.00	0.00	0.00	0.00	0.00	92.07	55.23	441.83	J7644	4544.00
D48	0.00	0.00	0.00	79.82	0.00	0.00	0.00	0.00	0.00	15.88	95.69	23.86	190.87	6185	4543.91
D49	0.00	0.00	0.00	0.01	30.93	0.00	0.00	0.00	0.00	0.00	30.93	12.06	96.50	J7614	4521.00
D50	0.00	0.07	0.00	0.00	23.50	0.00	0.00	0.00	0.00	0.00	23.58	9.18	73.42	J7840	4512.00
D51	0.00	0.00	0.07	0.00	20.39	0.00	0.00	0.00	0.00	0.00	20.46	7.97	63.76	J7630	4512.42
D52	0.00	13.30	34.47	0.00	0.00	0.00	0.00	0.00	0.00	0.00	47.78	10.61	84.91	6177	4513.00
D53	0.00	42.21	0.00	0.00	0.14	0.00	0.00	0.00	0.00	0.00	42.35	6.39	51.09	24	4520.00
D54	0.00	34.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	34.50	5.17	41.40	5114	4513.00
D55	0.00	32.23	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.00	32.25	4.84	38.71	J7936	4506.00
D56	0.00	21.46	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	21.46	3.22	25.75	6215	4499.00
D57	0.00	43.41	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	43.41	6.51	52.10	J7928	4507.00
D58	0.00	0.53	0.77	0.00	0.00	0.00	0.24	0.00	54.16	0.00	55.70	8.47	67.75	J7932	4502.00
D59	0.00	0.00	0.00	0.03	0.00	17.04	0.00	0.00	0.00	0.00	17.07	5.29	42.29	J7422	4544.00
D60	0.00	0.00	0.00	0.00	0.32	23.79	0.00	0.00	0.00	0.00	24.12	7.50	60.02	J7410	4546.34
D61	0.00	0.00	0.00	0.00	0.65	9.71	0.00	0.00	0.04	1.16	11.56	4.43	35.46	J7380	4519.00
D62	0.00	0.01	0.00	0.00	0.00	15.83	0.00	0.00	0.00	0.00	15.84	4.91	39.28	J7396	4539.00

TABLE 2-1 - MODEL INFORMATION

Demand Region	Land Use Acreage											Irrigable Land (AC)	Calculated Demand (GPM)	Demand Node	Elevation (FT)
	Agricultural	Commercial	Commercial / Residential Option	Industrial Manufacturing	Low Density Residential	Medium Density Residential	Medium High Density Residential	Medium Low Density Residential	Mixed Use	Parks	Grand Total				
D63	0.00	0.00	0.00	0.00	28.12	0.25	0.00	0.00	0.00	0.00	28.37	11.04	88.35	5182	4549.00
D64	0.00	0.00	0.00	0.00	11.51	0.01	0.00	0.00	0.00	0.00	11.51	4.49	35.91	J7940	4536.00
D65	0.00	0.00	0.00	0.00	5.90	0.00	0.00	0.00	0.00	0.00	5.90	2.30	18.40	J7944	4520.00
D66	0.00	0.00	0.00	0.00	11.53	0.00	0.00	0.00	0.00	0.00	11.53	4.50	35.99	J7340	4528.00
D67	0.00	0.00	0.00	0.00	12.65	0.00	0.00	0.00	0.00	1.91	14.56	6.84	54.71	J7828	4514.00
D68	0.00	0.00	0.00	0.00	20.16	0.00	0.00	0.00	0.00	0.00	20.16	7.86	62.91	J7206	4517.00
D69	0.00	0.00	0.00	0.00	20.93	0.00	0.00	0.00	0.00	0.00	20.93	8.16	65.32	J7262	4528.00
D70	0.00	0.00	0.00	0.00	14.38	0.00	0.00	0.00	0.00	0.00	14.38	5.61	44.87	J7296	4547.00
D71	0.00	0.00	0.00	0.00	15.34	0.00	0.00	0.00	0.00	1.52	16.86	7.50	60.03	J7224	4525.00
D72	0.00	0.00	0.00	0.00	9.79	0.00	0.00	11.30	0.00	0.00	21.09	7.89	63.09	6161	4503.50
D73	0.00	0.00	0.00	15.13	0.02	0.00	0.00	0.00	0.00	0.00	15.14	1.52	12.16	J7716	4545.00
D74	0.00	0.00	0.00	38.59	0.00	0.00	0.00	0.00	0.00	0.00	38.59	3.86	30.87	361	4532.00
D75	0.00	0.00	0.00	1.60	0.00	0.00	0.00	0.00	0.00	35.23	36.83	35.39	283.11	J7922	4504.00
D76	0.00	0.00	0.00	54.94	0.00	0.00	0.00	0.00	0.00	0.00	54.94	5.49	43.95	5084	4510.00
D77	0.00	0.00	0.00	65.12	0.00	0.00	0.00	0.00	0.00	0.00	65.12	6.51	52.10	7	4503.00
D78	0.00	82.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	82.60	12.39	99.12	6169	4493.00
D79	0.00	22.82	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	22.82	3.42	27.38	14	4496.00
D80	0.00	74.59	16.06	0.00	0.00	0.00	0.00	0.00	0.00	0.00	90.65	15.20	121.62	J7196	4497.90
D81	0.00	1.58	24.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	25.62	6.25	49.99	6201	4495.29
D82	0.00	16.94	69.26	0.00	0.00	0.00	0.00	0.00	0.00	0.00	86.20	19.86	158.85	6209	4499.00
D83	0.00	57.62	0.00	0.00	0.00	0.00	0.00	0.00	0.00	20.43	78.05	29.07	232.57	6191	4490.00
D84	0.00	91.74	0.00	0.00	0.00	16.29	0.00	0.00	0.00	0.00	108.03	18.81	150.50	J7694	4495.75
D85	0.00	73.00	0.00	0.00	0.00	4.72	1.10	0.00	4.57	0.00	83.39	13.43	107.42	5096	4502.00
D86	0.50	0.00	18.71	0.00	18.25	0.00	0.00	22.23	0.00	0.00	59.70	20.10	160.81	J7820	4502.00
D87	50.64	0.00	0.00	0.00	55.65	0.00	17.86	36.82	10.45	0.00	171.43	72.27	578.16	J7710	4492.00
D88	0.00	0.00	0.00	27.71	0.00	0.00	0.00	0.00	0.00	0.00	27.71	2.77	22.17	27	4586.00
D89	0.00	0.00	0.00	21.61	0.00	0.00	0.00	0.00	0.00	0.00	21.61	2.16	17.30	J7834	4549.58
D90	0.00	0.00	0.00	0.00	30.52	0.00	0.00	0.00	0.00	0.00	30.52	11.90	95.22	J7654	4553.00
D91	0.00	0.00	0.00	9.41	0.00	0.00	0.00	0.00	0.00	0.00	9.41	0.94	7.53	J7656	4567.00
D92	0.00	0.00	0.00	0.00	25.38	0.00	0.00	0.00	0.00	6.82	32.20	16.72	133.76	J7552	4531.00
D93	0.00	0.00	0.00	0.00	23.16	0.00	0.00	0.00	0.00	0.24	23.40	9.28	74.20	J7578	4526.00

TABLE 2-1 - MODEL INFORMATION

Demand Region	Land Use Acreage											Irrigable Land (AC)	Calculated Demand (GPM)	Demand Node	Elevation (FT)
	Agricultural	Commercial	Commercial / Residential Option	Industrial Manufacturing	Low Density Residential	Medium Density Residential	Medium High Density Residential	Medium Low Density Residential	Mixed Use	Parks	Grand Total				
D94	0.00	0.00	0.00	0.00	32.90	0.00	0.00	0.00	0.00	2.77	35.67	15.60	124.79	J7918	4522.00
D95	0.00	0.00	0.00	0.00	30.36	0.00	0.00	0.10	0.00	3.66	34.12	15.54	124.28	6155	4525.00
D96	0.00	0.00	0.00	0.00	9.62	0.00	0.00	0.00	0.00	0.00	9.62	3.75	30.01	J7490	4530.00
D97	0.00	0.00	0.00	0.00	10.95	0.00	0.00	0.00	0.00	0.00	10.95	4.27	34.17	J7478	4526.23
D98	0.00	0.00	0.00	0.00	20.80	0.00	0.00	0.00	0.00	0.00	20.80	8.11	64.89	J7888	4532.00
D99	0.00	0.00	0.00	0.00	17.29	0.00	0.00	0.00	0.00	0.00	17.29	6.74	53.94	J7486	4533.00
D100	0.00	0.00	0.00	0.00	21.82	0.00	0.00	0.00	0.00	0.00	21.82	8.51	68.09	6151	4542.00
D101	0.00	0.00	0.00	0.00	16.96	0.00	0.00	0.00	0.00	0.00	16.96	6.62	52.92	J7890	4559.00
D102	0.00	0.00	0.00	0.00	17.96	0.00	0.00	0.00	0.00	0.00	17.96	7.01	56.04	J7660	4553.90
D103	0.00	0.00	0.00	0.00	21.76	0.00	0.00	0.00	0.00	0.00	21.76	8.49	67.90	6179	4545.00
D104	0.00	0.00	0.00	0.00	20.50	0.00	0.00	0.00	0.00	0.00	20.50	8.00	63.97	J7892	4532.00
D105	0.00	0.00	0.00	0.00	10.72	0.00	0.00	0.00	0.00	0.00	10.72	4.18	33.46	J7462	4542.00
D106	0.00	0.00	0.00	0.00	9.63	0.00	0.00	0.00	0.00	0.00	9.63	3.76	30.04	J7436	4548.00
D107	0.00	0.00	0.00	0.00	19.00	0.00	0.00	0.00	0.00	0.00	19.00	7.41	59.27	J7430	4551.00
D108	0.00	0.00	0.00	0.00	0.00	14.96	0.00	0.00	0.00	0.00	14.96	4.64	37.10	J7426	4533.00
D109	0.00	0.00	0.00	0.00	0.00	4.84	0.00	0.00	0.00	0.00	4.84	1.50	12.01	J7368	4527.00
D110	0.00	0.00	0.00	0.00	19.42	0.00	0.00	0.00	0.00	1.96	21.37	9.53	76.24	J7894	4512.00
D111	0.00	0.00	0.00	0.00	9.56	0.00	0.00	0.00	0.00	0.00	9.56	3.73	29.82	J7338	4520.68
D112	0.00	0.00	0.00	0.00	13.56	0.00	0.00	0.00	0.00	2.07	15.63	7.36	58.89	6157	4511.00
D113	0.00	0.00	0.00	0.00	10.99	0.00	0.00	0.00	0.00	0.40	11.39	4.68	37.46	J7330	4517.00
D114	0.00	0.00	0.00	0.00	1.33	0.00	0.00	0.00	0.00	4.98	6.32	5.50	44.02	J7942	4521.00
D115	0.00	0.00	0.00	0.00	7.06	0.00	0.00	0.00	0.00	1.26	8.32	4.01	32.12	J7896	4510.00
D116	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.95	0.00	0.00	0.95	0.34	2.74	J7344	4503.00
D117	0.00	0.00	0.00	0.00	0.00	0.00	0.00	9.77	0.00	0.00	9.77	3.52	28.14	J7360	4504.00
D118	0.00	0.00	0.00	0.00	20.28	0.00	0.00	0.00	0.00	0.00	20.28	7.91	63.26	J7246	4523.00
D119	0.00	0.00	0.00	0.00	2.60	0.00	0.00	0.00	0.00	0.00	2.60	1.01	8.11	J7298	4524.00
D120	0.00	0.00	0.00	0.00	10.05	0.00	0.00	0.00	0.00	0.00	10.05	3.92	31.35	J7470	4549.00
D121	0.00	0.00	0.00	0.00	8.88	0.00	0.00	0.00	0.00	0.24	9.12	3.70	29.63	J7202	4511.00
D122	0.00	0.00	0.00	0.00	0.80	0.00	0.00	0.00	0.00	0.30	1.09	0.61	4.86	J7364	4518.00
D123	26.29	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	26.29	15.78	126.21	J7904	4556.00
D124	47.17	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	47.18	28.31	226.47	J7906	4548.00

TABLE 2-1 - MODEL INFORMATION

Demand Region	Land Use Acreage											Irrigable Land (AC)	Calculated Demand (GPM)	Demand Node	Elevation (FT)
	Agricultural	Commercial	Commercial / Residential Option	Industrial Manufacturing	Low Density Residential	Medium Density Residential	Medium High Density Residential	Medium Low Density Residential	Mixed Use	Parks	Grand Total				
D125	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	9.73	0.00	9.73	1.46	11.67	J7966	4514.00
D126	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.05	20.07	0.01	20.13	3.04	24.30	J7968	4514.00
D127	27.64	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	27.64	16.59	132.69	6275	4563.00
D128	0.00	0.00	0.00	44.94	0.01	0.00	0.00	0.00	0.00	0.00	44.95	4.50	35.98	J7910	4606.00
D129	0.00	0.00	0.00	0.06	9.63	0.00	0.00	0.00	0.00	0.00	9.69	3.76	30.10	J7912	4612.00
D130	0.00	0.00	0.00	0.00	8.55	0.00	0.00	0.00	0.00	0.00	8.55	3.34	26.68	J7914	4582.00
D131	0.00	0.00	0.00	0.00	6.31	0.00	0.00	0.00	0.00	0.00	6.31	2.46	19.69	J7916	4606.00
D132	0.00	0.00	0.00	0.00	0.00	0.00	0.00	8.52	0.00	0.00	8.52	3.07	24.55	J7946	4523.00
D133	0.00	0.00	0.00	0.00	12.47	0.00	0.00	0.00	0.00	0.00	12.47	4.86	38.92	J7242	4525.00
D134	0.00	0.00	0.00	35.18	0.00	0.00	0.00	0.00	0.00	0.00	35.18	3.52	28.14	5088	4513.00
D135	0.00	0.00	0.00	54.93	0.00	0.00	0.00	0.00	0.00	0.00	54.93	5.49	43.94	2	4501.00
D136	0.00	0.00	0.00	43.23	0.00	0.00	0.00	0.00	0.00	0.00	43.23	4.32	34.58	6	4497.00
D137	0.00	0.00	24.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	24.60	6.15	49.19	6187	4491.00
D138	0.00	0.19	0.00	25.21	0.00	0.00	0.00	0.00	0.00	0.00	25.40	2.55	20.39	17	4497.00
D139	0.00	0.00	0.00	40.63	0.00	0.00	0.00	0.00	0.00	0.00	40.63	4.06	32.51	6205	4499.00
D140	0.00	0.00	0.00	26.61	0.00	0.00	0.00	0.00	0.00	0.00	26.61	2.66	21.28	18	4499.05
D141	0.00	0.00	0.00	23.51	0.54	0.00	0.00	0.00	0.00	11.79	35.84	14.35	114.80	6163	4504.00
D142	0.00	0.00	0.00	26.79	0.00	0.00	0.00	0.00	0.00	0.05	26.85	2.73	21.87	6165	4511.00
D143	0.00	0.00	0.00	0.00	16.03	0.00	0.00	0.00	0.00	0.00	16.03	6.25	50.02	J7924	4504.00
D144	0.00	24.49	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	24.49	3.67	29.38	J7934	4504.00
D145	0.00	1.60	0.00	27.02	0.00	0.00	0.00	0.00	0.00	0.00	28.63	2.94	23.54	20	4503.00
D146	0.00	17.05	6.17	0.00	0.00	0.00	0.00	0.00	0.00	0.00	23.22	4.10	32.80	J7960	4512.00
D147	0.00	20.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	20.50	3.07	24.60	J7678	4510.00
D148	0.00	5.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	5.03	0.75	6.04	6217	4507.00
D149	0.00	21.22	0.00	0.00	0.07	0.00	0.00	0.00	0.00	0.00	21.30	3.21	25.70	5118	4513.00
D150	0.00	17.12	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	17.12	2.57	20.55	J7930	4504.00
D151	0.00	20.30	0.00	0.00	0.00	0.00	0.41	0.00	0.00	0.00	20.71	3.17	25.35	5108	4503.00
D152	0.00	20.27	0.00	0.00	0.00	0.00	4.82	0.00	10.64	0.00	35.73	6.08	48.66	5102	4500.00
D153	0.00	78.36	0.00	0.00	0.00	2.28	0.00	0.00	0.00	8.79	89.43	21.25	170.02	J7688	4492.00
D154	0.00	31.89	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	31.89	4.78	38.27	5104	4505.39
D155	0.00	3.32	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.32	0.50	3.99	5110	4511.00

TABLE 2-1 - MODEL INFORMATION

Demand Region	Land Use Acreage											Irrigable Land (AC)	Calculated Demand (GPM)	Demand Node	Elevation (FT)
	Agricultural	Commercial	Commercial / Residential Option	Industrial Manufacturing	Low Density Residential	Medium Density Residential	Medium High Density Residential	Medium Low Density Residential	Mixed Use	Parks	Grand Total				
D156	0.00	2.73	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.73	0.41	3.27	J7712	4503.00
D157	0.00	1.75	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.75	0.26	2.10	J7934	4504.00
D158	0.00	0.00	0.00	0.00	15.43	0.00	0.00	0.00	0.00	2.41	17.84	8.43	67.43	J7506	4529.00
D159	0.00	0.00	0.00	0.00	16.72	0.00	0.00	0.00	0.00	0.00	16.72	6.52	52.16	J7514	4536.00
D160	0.00	0.00	0.00	0.00	0.08	0.00	0.00	0.00	0.00	3.65	3.72	3.68	29.41	J7556	4526.25
D161	0.00	0.00	0.00	0.00	0.02	0.00	0.00	0.00	0.00	5.47	5.49	5.48	43.84	J7586	4524.00
D162	0.00	0.00	0.00	0.00	14.72	0.00	0.00	0.00	0.00	0.44	15.16	6.18	49.47	J7494	4529.00
D163	0.00	0.00	0.00	0.00	13.97	0.00	0.00	0.00	0.00	1.75	15.72	7.20	57.56	J7682	4524.00
D164	0.00	0.00	0.00	0.00	23.99	0.00	0.00	0.00	0.00	1.25	25.24	10.61	84.87	J7592	4518.00
D165	0.00	0.00	0.00	0.00	4.77	0.00	0.00	0.00	0.00	0.00	4.77	1.86	14.89	J7466	4551.00
D166	0.00	0.00	0.00	0.00	10.65	0.00	0.00	0.00	0.00	0.00	10.65	4.15	33.21	J7830	4537.00
D167	0.00	0.00	0.00	0.00	4.91	0.00	0.00	0.00	0.00	0.00	4.91	1.91	15.32	J7938	4540.00
D168	0.00	0.00	0.00	0.00	2.95	0.00	0.00	0.00	0.00	0.00	2.95	1.15	9.22	J7322	4518.00
D169	0.00	5.26	0.00	0.00	0.00	0.11	0.00	0.00	0.00	0.00	5.37	0.82	6.58	J7418	4541.87
D170	0.00	0.00	0.00	0.00	4.63	0.01	0.00	0.00	0.00	0.00	4.63	1.81	14.45	J7342	4523.00
D171	0.00	0.00	0.00	12.51	0.00	0.00	0.00	0.00	0.00	0.00	12.51	1.25	10.01	5198	4618.00
D172	0.00	0.00	0.00	0.00	15.58	0.00	0.00	0.00	0.00	2.99	18.57	9.07	72.55	J7528	4531.04
D173	0.00	0.00	0.00	4.28	0.00	0.00	0.00	0.00	0.00	0.00	4.28	0.43	3.42	J7650	4560.00
D174	0.00	25.98	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	25.98	3.90	31.18	23	4509.44
D175	0.00	0.00	0.00	0.00	20.22	0.00	0.00	0.00	0.00	0.00	20.22	7.88	63.07	J7618	4516.00
D176	64.03	0.00	0.00	0.00	61.27	0.00	0.00	0.00	0.00	11.22	136.52	73.53	588.26	J7138	4495.00
D177	126.17	0.00	0.00	0.00	62.81	0.00	0.00	0.00	0.00	33.30	222.27	133.49	1067.94	J7136	4496.00
D178	0.00	0.00	0.00	0.00	0.03	0.00	0.00	9.56	0.00	0.00	9.59	3.45	27.63	6159	4508.00
D179	0.00	0.00	0.00	0.00	6.94	0.20	0.00	0.00	0.00	0.00	7.14	2.77	22.14	5196	4551.04
D180	0.00	0.00	0.00	0.00	18.22	0.00	0.00	0.00	0.00	0.00	18.22	7.11	56.84	J7236	4526.00
D181	0.00	0.00	0.00	5.11	0.00	0.00	0.00	0.00	0.00	0.00	5.11	0.51	4.09	J7920	4518.00
D182	0.00	0.00	0.00	6.39	0.00	0.00	0.00	0.00	0.00	0.00	6.39	0.64	5.11	39	4514.00
D183	0.00	0.00	0.00	4.69	0.00	0.00	0.00	0.00	0.00	0.00	4.69	0.47	3.76	J7920	4518.00
D184	0.00	0.00	0.00	13.90	0.00	0.00	0.00	0.00	0.00	0.00	13.90	1.39	11.12	J7920	4518.00
D185	0.00	0.00	0.00	52.37	0.00	0.00	0.00	0.00	0.00	0.00	52.37	5.24	41.90	11	4504.59
D186	0.00	0.00	0.00	2.49	0.00	0.00	0.00	0.00	0.00	0.00	2.49	0.25	2.00	6	4497.00

TABLE 2-1 - MODEL INFORMATION

Demand Region	Land Use Acreage											Irrigable Land (AC)	Calculated Demand (GPM)	Demand Node	Elevation (FT)
	Agricultural	Commercial	Commercial / Residential Option	Industrial Manufacturing	Low Density Residential	Medium Density Residential	Medium High Density Residential	Medium Low Density Residential	Mixed Use	Parks	Grand Total				
D187	0.00	0.00	0.00	11.35	0.00	0.00	0.00	0.00	0.00	0.00	11.35	1.13	9.08	12	4501.00
D188	0.00	13.15	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	13.15	1.97	15.78	6171	4493.00
D189	0.00	18.57	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	18.57	2.79	22.29	14	4496.00
D190	0.00	0.00	0.00	1.41	0.00	0.00	0.00	0.00	0.00	0.00	1.41	0.14	1.13	5120	4518.00
D191	0.00	23.94	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	23.94	3.59	28.73	5094	4501.00
D192	0.00	0.00	0.00	3.00	0.00	0.00	0.00	0.00	0.00	0.00	3.00	0.30	2.40	11	4504.59
D193	0.00	0.00	0.00	15.56	0.00	0.00	0.00	0.00	0.00	0.00	15.56	1.56	12.45	11	4504.59
D194	0.00	0.00	0.00	0.00	0.00	5.30	0.00	0.00	0.00	0.00	5.30	1.64	13.15	J7452	4527.00
D195	0.00	5.79	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	5.79	0.87	6.96	6141	4533.00
D196	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	9.67	0.00	9.67	1.45	11.60	6167	4515.00
D197	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	9.85	0.22	10.07	1.70	13.58	6145	4523.00
D198	0.00	0.03	0.00	0.00	0.00	0.02	0.00	0.00	10.76	0.00	10.81	1.62	13.00	J7954	4530.00
D199	0.00	8.81	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.74	10.55	3.06	24.47	6145	4523.00
D200	0.00	0.00	0.00	0.00	162.83	0.00	0.00	0.00	0.00	0.00	162.83	63.50	508.03	J7130	4504.00
D201	0.00	0.00	0.00	0.00	232.38	0.00	0.00	0.22	0.00	0.00	232.60	90.71	725.67	J7132	4506.00
TOTAL	674.87	1116.64	210.71	1194.43	1802.48	176.01	45.84	223.80	190.20	227.13	5862.14	1852.06	14816.47		

TABLE 2-2 - MODEL INFORMATION: NODES

ID	Demand (gpm)	Elevation (ft)	Pressure (psi)
1	0	4,496.00	88.3
11	56.75	4,504.59	86.73
12	21.72	4,501.00	88.26
13	0	4,499.94	95.1
14	49.67	4,496.00	96.7
15	0	4,504.00	94.42
16	0	4,496.82	97.41
17	20.39	4,497.00	97.32
18	21.28	4,499.05	98.86
19	23.78	4,504.69	99.66
2	43.95	4,501.00	86.09
20	23.54	4,503.00	98.7
21	0	4,499.32	99.34
23	31.18	4,509.44	100.93
24	51.09	4,520.00	96.48
25	0	4,521.00	96.38
26	90.92	4,600.50	62.79
27	22.17	4,586.00	69.84
28	0	4,583.02	71.93
3	0	4,496.74	87.98
361	30.87	4,532.00	79.58
37	0	4,506.75	86.45
39	36.07	4,514.00	84.4
4	0	4,497.00	87.9
40	0	4,520.43	80.97
424	0	4,545.00	75.11
44	0	4,527.00	78.12
5	0	4,503.00	85.33
5076	0	4,510.00	95.61
5080	24.35	4,498.00	87.38
5082	0	4,493.00	89.56
5084	43.95	4,510.00	85.04
5086	0	4,505.00	87.21
5088	28.14	4,513.00	83.76
5090	0	4,512.36	84.15
5092	0	4,493.00	85.42
5094	28.73	4,501.00	97.87
5096	107.42	4,502.00	96.4
5100	0	4,500.00	96.03
5102	48.65	4,500.00	99.3
5104	38.27	4,505.39	100.39
5106	0	4,503.00	100.21
5108	25.34	4,503.00	100.21
5110	3.99	4,511.00	98.9

TABLE 2-2 - MODEL INFORMATION: NODES

ID	Demand (gpm)	Elevation (ft)	Pressure (psi)
5112	0	4,510.67	100.14
5114	41.4	4,513.00	99.01
5116	0	4,511.98	99.51
5118	25.7	4,513.00	99.4
5120	17.82	4,518.00	97.68
5122	0	4,520.00	96.82
5172	0	4,541.80	81.04
5174	0	4,542.00	80.96
5176	0	4,541.00	81.05
5178	0	4,554.00	75.42
5180	0	4,550.00	77.28
5182	88.35	4,549.00	77.74
5184	0	4,546.00	79.98
5186	0	4,549.00	78.53
5188	0	4,549.08	78.26
5190	0	4,544.79	80.78
5192	0	4,542.00	82.96
5194	0	4,544.00	85.72
5196	22.15	4,551.04	82.73
5198	10.01	4,618.00	51.03
5200	0	4,595.00	64.79
5230	0	4,587.00	68.53
6	36.57	4,497.00	87.86
6139	64.97	4,526.57	92.66
6141	37.09	4,533.00	93.38
6143	0	4,516.00	94.79
6145	38.04	4,523.00	96.92
6151	68.08	4,542.00	90.27
6153	0	4,531.23	94.43
6155	124.29	4,525.00	97.1
6157	58.89	4,511.00	89.89
6159	27.63	4,508.00	99.04
6161	63.09	4,503.50	95.07
6163	114.8	4,504.00	89.01
6165	21.87	4,511.00	86.27
6167	11.6	4,515.00	97.25
6169	99.12	4,493.00	97.89
6171	15.78	4,493.00	97.99
6175	0	4,530.00	92.39
6177	84.9	4,513.00	100.16
6179	67.91	4,545.00	88.14
6183	27.18	4,557.00	81.84
6185	190.88	4,543.91	85.81
6187	49.19	4,491.00	101.38

TABLE 2-2 - MODEL INFORMATION: NODES

ID	Demand (gpm)	Elevation (ft)	Pressure (psi)
6189	0	4,497.11	98.88
6191	232.57	4,490.00	86.01
6193	0	4,496.00	97.46
6199	0	4,499.00	93.33
6201	49.98	4,495.29	98.24
6203	0	4,521.00	96.39
6205	32.5	4,499.00	97.3
6207	0	4,501.55	97.01
6209	158.85	4,499.00	99.09
6215	0	4,511.00	101.01
6217	6.04	4,507.00	102.49
6275	132.69	4,563.00	74.99
6351	22.2	4,539.00	88.21
6353	0	4,537.40	89.25
6355	0	4,570.00	71.74
7	52.1	4,503.00	85.29
7040	12.6	4,516.00	82.67
7175	13.6	4,525.09	94.61
7200	53.24	4,610.90	55.03
8	0	4,502.00	85.99
9	0	4,503.00	85.89
J7010	19.8	4,520.00	81.16
J7096	0	4,503.00	85.31
J7098	93.82	4,557.00	85.25
J7124	0	4,510.00	93.93
J7130	508.03	4,504.00	93.61
J7132	725.67	4,506.00	94.06
J7134	0	4,494.07	95.17
J7136	1,067.93	4,496.00	93.4
J7138	588.26	4,495.00	93.41
J7140	21.63	4,612.00	53.25
J7142	0	4,582.00	66.21
J7144	0	4,540.00	84.39
J7160	0	4,527.00	97.96
J7162	0	4,767.00	6.27
J7166	0	4,762.00	8.17
J7170	0	4,654.00	49.64
J7172	0	4,593.00	72.76
J7174	0	4,587.00	75
J7176	0	4,583.10	76.36
J7178	0	4,583.89	75.94
J7180	0	4,570.97	80.67
J7182	0	4,551.00	88.38
J7184	0	4,610.00	66.41

TABLE 2-2 - MODEL INFORMATION: NODES

ID	Demand (gpm)	Elevation (ft)	Pressure (psi)
J7186	0	4,633.00	57.74
J7188	0	4,701.00	31.71
J7190	0	4,723.00	23.64
J7196	121.63	4,497.90	96.14
J7198	0	4,497.00	96.36
J7200	0	4,495.00	97.25
J7202	29.64	4,511.00	88.71
J7204	0	4,512.00	88.14
J7206	62.91	4,517.00	86.59
J7208	0	4,513.00	88.42
J7210	0	4,518.90	85.29
J7212	0	4,522.00	83.31
J7216	0	4,518.00	86.38
J7218	0	4,518.00	86.38
J7220	0	4,521.00	85.58
J7222	0	4,519.00	86.65
J7224	60.03	4,525.00	84.14
J7226	0	4,527.00	83.35
J7228	0	4,527.98	83.01
J7230	0	4,527.00	83.44
J7232	0	4,528.00	82.92
J7234	0	4,523.00	84.97
J7236	56.84	4,526.00	83.75
J7238	0	4,523.42	84.76
J7240	0	4,523.00	84.96
J7242	38.92	4,525.00	84.54
J7244	0	4,523.45	85.16
J7246	63.26	4,523.00	85.3
J7248	0	4,526.51	83.75
J7250	0	4,528.00	83.11
J7252	0	4,530.00	82.22
J7254	0	4,527.00	83.65
J7256	0	4,527.00	83.62
J7258	0	4,526.32	83.92
J7260	0	4,531.80	81.39
J7262	65.32	4,528.00	83.06
J7264	0	4,530.81	81.89
J7266	0	4,532.79	81.18
J7268	0	4,539.00	78.46
J7270	0	4,533.00	80.92
J7272	0	4,533.00	80.87
J7274	0	4,537.00	79.02
J7276	0	4,539.24	78.61
J7278	0	4,533.00	81.34

TABLE 2-2 - MODEL INFORMATION: NODES

ID	Demand (gpm)	Elevation (ft)	Pressure (psi)
J7280	0	4,534.66	80.6
J7282	0	4,532.62	81.53
J7284	0	4,533.00	81.42
J7286	69.88	4,536.90	79.67
J7288	0	4,533.00	81.37
J7290	0	4,539.00	78.82
J7292	0	4,540.33	78.42
J7294	0	4,539.00	78.8
J7296	44.87	4,547.00	75.27
J7298	8.11	4,524.00	87.05
J7300	0	4,526.40	83.88
J7302	0	4,530.00	83.54
J7304	0	4,525.56	86.3
J7306	0	4,525.44	87.13
J7308	0	4,525.30	87.13
J7310	0	4,527.00	84.84
J7312	6.09	4,526.77	85.77
J7314	0	4,525.60	89.34
J7316	16.49	4,539.91	79
J7318	0	4,523.00	90.47
J7320	0	4,520.00	91.48
J7322	9.22	4,518.00	91.83
J7324	0	4,514.00	93.63
J7326	0	4,514.00	94.1
J7328	0	4,514.00	94.4
J7330	37.46	4,517.00	92.78
J7332	0	4,519.00	92.33
J7334	0	4,514.19	94.59
J7336	0	4,516.90	93.24
J7338	29.82	4,520.68	91.66
J7340	35.99	4,528.00	91.96
J7342	14.45	4,523.00	92.32
J7344	2.74	4,503.00	99.32
J7346	0	4,503.00	98.99
J7348	0	4,508.11	96.72
J7350	0	4,507.99	96.05
J7352	29.94	4,507.00	96.48
J7354	0	4,509.00	95.54
J7356	0	4,504.00	97.57
J7358	0	4,503.38	98.24
J7360	31.8	4,504.00	97.47
J7362	0	4,509.00	95.54
J7364	20.69	4,518.00	94.04
J7366	0	4,546.00	78.88

TABLE 2-2 - MODEL INFORMATION: NODES

ID	Demand (gpm)	Elevation (ft)	Pressure (psi)
J7368	12.01	4,527.00	94.06
J7370	0	4,528.12	93.12
J7372	0	4,520.00	94.28
J7374	0	4,520.75	93.95
J7376	0	4,519.00	94.71
J7378	0	4,518.00	95.21
J7380	35.43	4,519.00	94.79
J7382	0	4,518.00	95.34
J7384	37	4,518.00	95.34
J7386	0	4,520.00	94.52
J7388	18.98	4,525.00	92.64
J7390	0	4,527.00	93.39
J7392	0	4,534.26	90.19
J7394	0	4,533.88	90.35
J7396	39.28	4,539.00	88.08
J7398	0	4,529.00	92.49
J7400	0	4,533.00	90.76
J7402	0	4,544.00	85.84
J7404	0	4,540.13	87.69
J7406	0	4,540.79	87.38
J7408	0	4,540.82	87.37
J7410	60.02	4,546.34	84.8
J7412	0	4,552.03	82.32
J7414	12	4,533.92	91.43
J7418	6.58	4,541.87	87.99
J7420	0	4,536.00	91.64
J7422	42.28	4,544.00	88.15
J7424	0	4,538.69	91.17
J7426	37.1	4,533.00	94.23
J7428	0	4,541.84	89.8
J7430	59.27	4,551.00	85.82
J7432	0	4,550.00	86.25
J7434	0	4,549.58	86.45
J7436	30.04	4,548.00	87.13
J7438	0	4,554.59	84.28
J7440	0	4,558.00	82.8
J7442	0	4,540.29	90.63
J7444	0	4,539.00	91.65
J7446	0	4,532.66	94.91
J7448	0	4,531.00	96.22
J7450	0	4,533.00	95.2
J7452	58.51	4,527.00	97.83
J7454	0	4,531.00	95.63
J7456	0	4,539.58	90.92

TABLE 2-2 - MODEL INFORMATION: NODES

ID	Demand (gpm)	Elevation (ft)	Pressure (psi)
J7458	0	4,538.00	91.59
J7460	0	4,538.00	91.59
J7462	33.45	4,542.00	89.86
J7464	0	4,544.00	88.99
J7466	14.89	4,551.00	76.71
J7468	0	4,543.00	80.18
J7470	31.35	4,549.00	77.56
J7472	0	4,547.00	78.45
J7474	0	4,526.00	96.48
J7476	0	4,526.00	96.48
J7478	34.17	4,526.23	96.44
J7480	0	4,530.91	94.41
J7482	0	4,533.00	93.33
J7484	0	4,529.46	94.48
J7486	53.94	4,533.00	92.95
J7488	0	4,530.00	93.87
J7490	30.01	4,530.00	93.87
J7492	0	4,533.00	92.31
J7494	49.47	4,529.00	94.04
J7496	0	4,533.00	92.12
J7498	0	4,529.00	93.86
J7500	0	4,537.00	90.23
J7502	0	4,531.00	92.83
J7504	0	4,527.00	94.57
J7506	67.42	4,529.00	94.05
J7508	0	4,529.00	94.05
J7510	0	4,536.00	91.75
J7512	0	4,533.00	93.52
J7514	52.15	4,536.00	92.94
J7516	0	4,535.00	92.18
J7518	0	4,537.74	89.75
J7520	0	4,534.22	91.11
J7522	78.46	4,532.67	91.76
J7524	0	4,540.00	88.56
J7526	0	4,542.00	87.64
J7528	72.54	4,531.04	92.5
J7530	0	4,533.00	91.64
J7532	0	4,526.00	95
J7534	60.23	4,538.00	89.16
J7536	0	4,537.57	89.23
J7538	0	4,539.22	88.47
J7540	0	4,533.00	91.22
J7542	0	4,533.00	91.2
J7544	0	4,530.00	92.52

TABLE 2-2 - MODEL INFORMATION: NODES

ID	Demand (gpm)	Elevation (ft)	Pressure (psi)
J7546	0	4,532.35	91.54
J7548	0	4,532.00	91.7
J7550	0	4,527.00	94.06
J7552	133.76	4,531.00	92.33
J7554	0	4,526.00	94.44
J7556	29.41	4,526.25	94.28
J7558	0	4,527.00	93.87
J7560	0	4,523.00	95.61
J7562	8.24	4,528.00	93.36
J7564	0	4,525.00	94.89
J7566	0	4,526.00	94.46
J7568	0	4,527.00	93.98
J7570	0	4,523.07	95.69
J7572	0	4,520.00	96.92
J7574	0	4,522.08	96.02
J7576	0	4,524.00	95.19
J7578	74.19	4,526.00	94.33
J7580	0	4,529.00	93.02
J7582	0	4,526.00	94.3
J7584	0	4,523.57	95.35
J7586	43.84	4,524.00	95.16
J7588	0	4,524.00	95.18
J7590	0	4,526.00	94.22
J7592	84.86	4,518.00	97.76
J7594	0	4,518.00	97.76
J7596	0	4,520.00	96.9
J7598	0	4,521.00	96.54
J7600	0	4,522.00	96.1
J7602	0	4,517.00	98.2
J7606	0	4,513.00	99.94
J7610	0	4,519.00	97.29
J7612	0	4,518.06	97.7
J7614	96.5	4,521.00	95.65
J7616	0	4,518.72	97.32
J7618	63.07	4,516.00	98.52
J7620	0	4,511.00	100.84
J7622	0	4,517.00	98.22
J7624	0	4,512.00	100.54
J7626	0	4,512.00	100.46
J7628	0	4,512.05	100.5
J7630	63.76	4,512.42	100.25
J7632	0	4,516.00	98.73
J7634	0	4,514.90	99.18
J7636	0	4,514.98	99.17

TABLE 2-2 - MODEL INFORMATION: NODES

ID	Demand (gpm)	Elevation (ft)	Pressure (psi)
J7638	0	4,556.00	84.67
J7640	0	4,556.32	85.72
J7642	459.91	4,537.00	85.62
J7644	441.83	4,544.00	82.66
J7646	0	4,527.00	94.12
J7648	0	4,558.00	83.1
J7650	3.42	4,560.00	82.24
J7652	0	4,566.00	80.67
J7654	95.22	4,553.00	85.73
J7656	7.53	4,567.00	80.23
J7658	0	4,557.00	86.17
J7660	56.04	4,553.90	86.64
J7662	99.67	4,538.00	91.59
J7664	0	4,526.79	96.28
J7666	0	4,535.00	90.33
J7668	0	4,536.00	89.85
J7670	0	4,551.00	83.46
J7672	38.16	4,615.00	52.59
J7674	0	4,530.00	92.48
J7676	0	4,520.00	100.1
J7678	24.6	4,510.00	101.45
J7682	57.56	4,524.00	96.27
J7684	51.6	4,503.00	100.5
J7686	42.73	4,494.00	84.44
J7688	170.02	4,492.00	86.45
J7690	0	4,493.00	86.46
J7692	0	4,491.00	86.05
J7694	150.5	4,495.75	87
J7696	0	4,494.00	88.69
J7700	0	4,490.00	91.32
J7702	0	4,489.00	93.85
J7708	839.11	4,490.00	92.52
J7710	578.15	4,492.00	96.25
J7712	3.27	4,503.00	98.54
J7714	64.98	4,498.00	87.82
J7716	12.15	4,545.00	75.11
J7718	0	4,517.00	85.33
J7720	0	4,515.00	92.96
J7722	0	4,512.00	94.36
J7724	0	4,516.00	95.91
J7728	0	4,508.85	101.77
J7816	201.61	4,553.00	84.04
J7818	55.5	4,560.00	81.24
J7820	160.8	4,502.00	98.35

TABLE 2-2 - MODEL INFORMATION: NODES

ID	Demand (gpm)	Elevation (ft)	Pressure (psi)
J7822	135.84	4,508.00	99.75
J7824	0	4,514.00	94.58
J7826	119.12	4,507.00	89.61
J7828	54.71	4,514.00	94.76
J7830	33.21	4,537.00	84.25
J7832	4.58	4,504.00	89.67
J7834	17.3	4,549.58	89.36
J7836	0	4,512.00	100.38
J7838	0	4,512.00	100.38
J7840	73.42	4,512.00	100.39
J7842	0	4,512.00	100.41
J7844	0	4,512.00	100.44
J7846	0	4,512.00	100.45
J7848	0	4,512.00	100.49
J7850	0	4,512.00	100.48
J7852	0	4,512.00	100.5
J7864	0	4,512.00	100.5
J7866	0	4,520.00	99.45
J7888	64.89	4,532.00	94.76
J7890	52.92	4,559.00	85.03
J7892	63.97	4,532.00	94.67
J7894	76.23	4,512.00	92.55
J7896	32.13	4,510.00	95.19
J7900	0	4,490.00	90.23
J7902	0	4,490.00	87.72
J7904	126.21	4,556.00	77.45
J7906	226.48	4,548.00	80.74
J7908	0	4,520.00	99.53
J7910	68.39	4,606.00	58.52
J7912	30.1	4,612.00	55.07
J7914	26.68	4,582.00	71.96
J7916	19.69	4,606.00	60.52
J7918	124.8	4,522.00	97.5
J7920	18.98	4,518.00	82.34
J7922	283.11	4,504.00	88.97
J7924	50.02	4,504.00	92.94
J7926	28.72	4,513.00	94.81
J7928	52.1	4,507.00	101.25
J7930	20.55	4,504.00	102.06
J7932	222.59	4,502.00	99.36
J7934	31.48	4,504.00	97.63
J7936	38.71	4,506.00	100.54
J7938	15.32	4,540.00	82
J7940	35.92	4,536.00	84.97

TABLE 2-2 - MODEL INFORMATION: NODES

ID	Demand (gpm)	Elevation (ft)	Pressure (psi)
J7942	44.02	4,521.00	89.69
J7944	18.41	4,520.00	93.34
J7946	24.55	4,523.00	96.88
J7950	0	4,494.00	88.55
J7952	226.46	4,618.00	50.7
J7954	13	4,530.00	93.69
J7956	25.74	4,509.00	101.87
J7958	0	4,510.00	101.61
J7960	32.8	4,512.00	100.9
J7962	0	4,512.00	101.35
J7964	0	4,518.00	99.35
J7966	11.67	4,514.00	99
J7968	24.29	4,514.00	99.95
J7970	81.5	4,514.00	101.22
J7972	0	4,510.00	100.46
J7974	0	4,506.00	101.42
J7976	0	4,512.00	100.6
J7978	0	4,518.00	95.36
J7980	0	4,509.00	96.04
J7982	0	4,533.00	93.59
J7984	0	4,508.00	98.84
J7988	0	4,490.00	91.32
J8012	0	4,654.00	49.96
J8020	0	4,654.00	56.18
J8022	0	4,916.00	-57.2
J8024	0	4,762.00	9.17
J8026	0	4,493.00	89.56
J8028	0	4,506.00	88.08
J8030	0	4,504.00	87.87
J8038	0	4,521.00	96.4
J8040	0	4,504.00	94.43
J8042	0	4,497.00	97.91
J8044	0	4,498.00	97.42
J8046	0	4,502.00	93.07
J8048	0	4,506.00	89.36
J8050	0	4,550.00	88.03
J8052	0	4,533.00	94.07
J8054	0	4,502.00	99.87
J8056	0	4,505.00	98.89
J8058	0	4,950.00	-71.93

TABLE 2-3 - MODEL INFORMATION: NODES

ID	From Node	To Node	Length (ft)	Diameter (in)	Roughness	Flow (cfs)	Velocity (ft/s)	Headloss (ft)
1	1	4	1,246.08	6	140	-0.05	0.28	0.08
103	44	40	309.44	6	140	0	0	0
11	7	3	1,287.01	6	140	0.04	0.22	0.06
13	5	8	747.44	6	140	-0.19	0.97	0.51
1389	1	5082	1,262.39	6	140	0.05	0.28	0.08
1391	5082	5080	386.77	6	140	0.05	0.28	0.03
1393	37	5084	754.14	6	140	0.01	0.07	0
1395	5084	5086	545.39	6	140	-0.04	0.18	0.02
1397	5086	5088	1,313.97	6	140	-0.04	0.18	0.04
1399	5084	5088	1,004.97	6	140	-0.05	0.25	0.06
1401	5088	5090	587.84	6	140	-0.15	0.75	0.25
1405	5092	J7690	1,357.45	6	140	-0.32	1.63	2.4
1407	5094	5096	1,019.51	16	140	4.92	3.52	2.4
1411	5096	5100	1,325.03	16	140	4.68	3.35	2.85
1413	5100	5102	1,292.50	6	140	-0.61	3.09	7.53
1417	5104	J7684	1,604.60	20	140	6.49	2.98	2.14
1419	5106	5108	682.97	6	140	0.01	0.03	0
1421	5104	J7936	612	20	140	-7.11	3.26	0.96
1423	23	5118	1,224.76	6	140	-0.02	0.12	0.02
1425	5112	5116	838.56	6	140	0.09	0.47	0.15
1427	5114	5116	704.19	6	140	-0.09	0.47	0.13
1431	5122	25	498.62	8	140	0.01	0.04	0
1433	5120	5122	366	6	140	-0.04	0.2	0.01
1499	5176	5174	197.08	4	140	-0.17	1.95	0.78
15	J7096	8	1,136.95	6	140	-0.16	0.81	0.55
1501	5174	5180	826.13	4	140	0.06	0.69	0.49
1503	5180	5178	216.91	4	140	0.1	1.1	0.3
1505	5172	5174	155.76	4	140	0	0	0
1507	5174	5192	662.79	4	140	-0.23	2.64	4.63
1509	5192	5190	317.43	4	140	0.23	2.66	2.24
1511	5190	5184	310.65	4	140	0.12	1.36	0.63
1513	5184	5188	441.75	4	140	0.12	1.36	0.9
1515	5188	5182	179.51	4	140	0.23	2.66	1.27
1517	5182	5180	329.7	4	140	0.04	0.4	0.07
1519	5188	5186	289.85	4	140	-0.11	1.3	0.54
1521	5186	5190	526.42	4	140	-0.11	1.3	0.99
1523	5192	5194	330.48	4	140	-0.46	5.3	8.38
1525	5194	5196	1,007.94	4	140	-0.03	0.31	0.13
1527	5230	26	514.37	8	140	-0.34	0.98	0.26
1529	5230	5200	235.98	10	140	1.54	2.81	0.64
1531	5200	J7910	1,292.95	10	140	1.54	2.81	3.48
17	9	J7714	1,362.45	6	140	0.14	0.74	0.56
183	18	19	2,195.17	6	140	-0.46	2.32	7.5
185	19	J8056	421.74	16	140	6.08	4.36	1.47
187	20	21	722.14	16	140	5.63	4.03	2.19
189	20	5076	1,339.39	6	140	0.07	0.33	0.13
19	13	14	1,180.79	6	140	0.1	0.51	0.24
193	5118	24	1,996.91	6	140	-0.08	0.41	0.27
195	6203	24	1,097.70	6	140	0.19	0.99	0.77
197	6353	J7666	564.9	8	140	-0.17	0.49	0.08
199	26	27	1,492.19	8	140	-0.55	1.56	1.76
201	27	28	1,334.07	8	140	-0.6	1.71	1.84
203	39	J7920	604.28	6	140	0.26	1.33	0.74

TABLE 2-3 - MODEL INFORMATION: NODES

ID	From Node	To Node	Length (ft)	Diameter (in)	Roughness	Flow (cfs)	Velocity (ft/s)	Headloss (ft)
21	8	9	373.44	6	140	-0.35	1.78	0.78
27	11	12	1,161.23	6	140	0.05	0.25	0.06
29	9	11	885.74	6	140	-0.49	2.52	3.53
3	4	5	284	6	140	-0.11	0.56	0.07
31	13	17	2,284.04	6	140	-0.23	1.17	2.2
33	14	J7198	567.07	6	140	-0.14	0.7	0.21
35	17	16	1,115.91	6	140	-0.02	0.09	0.01
37	16	15	722.77	6	140	-0.14	0.72	0.28
39	37	11	1,234.49	6	140	0.26	1.33	1.51
41	6205	6207	994.42	6	140	-0.33	1.68	1.88
43	37	39	1,882.03	6	140	-0.27	1.4	2.52
5	5	6	1,220.49	6	140	0.08	0.41	0.17
6215	25	7175	922.76	8	140	0.01	0.04	0
6217	6183	5230	1,510.29	12	140	0.96	1.22	0.7
6219	6185	J7670	349.98	8	140	-1.16	3.33	1.67
6223	6169	14	769.66	6	140	-0.13	0.64	0.24
6225	6171	6169	1,153.27	6	140	0.1	0.48	0.22
6227	6171	13	799.25	6	140	-0.13	0.66	0.27
6229	6199	J7832	1,300.58	6	140	0.4	2.02	3.45
6231	6163	J8028	442.13	6	140	0.13	0.67	0.15
6243	6199	J8046	899.46	6	140	-0.4	2.02	2.38
6245	6161	6157	1,292.05	6	140	0.46	2.33	4.46
6253	15	J8040	88.16	6	140	-0.14	0.72	0.03
6255	6201	6187	2,575.61	6	140	-0.25	1.29	2.95
6257	6187	6189	1,056.89	6	140	-0.13	0.66	0.35
6259	16	J8042	942.7	6	140	-0.28	1.45	1.34
6281	6141	J7954	410.12	12	140	3.68	4.69	2.3
6287	J7382	J7978	27.94	6	140	-0.24	1.23	0.03
6293	6151	J7662	568.6	6	140	0.31	1.58	0.95
6295	6153	J7892	644.34	8	140	-0.73	2.1	1.31
6297	6153	J7664	660.13	8	140	0.25	0.7	0.18
6299	6145	J7866	621.21	6	140	-0.53	2.72	2.85
6313	6179	J7914	154.92	12	140	2.19	2.78	0.33
6317	6215	J7678	1,050.17	10	140	-0.07	0.13	0.01
6321	6203	5122	359.22	8	140	0.05	0.15	0.01
6323	6177	J7976	29.81	10	140	-0.45	0.83	0.01
6325	6189	20	2,804.47	6	140	-0.34	1.71	5.46
6327	17	J8044	1,028.21	6	140	-0.26	1.31	1.23
6329	6207	18	636	6	140	-0.41	2.08	1.77
6331	6207	6189	870.24	6	140	0.08	0.39	0.11
6333	21	6209	297.43	16	140	5.63	4.03	0.9
6335	6187	6209	2,772.30	6	140	-0.23	1.18	2.73
6339	5092	J7692	1,279.29	6	140	0.15	0.75	0.55
6345	5100	6193	363.31	16	140	4.44	3.18	0.71
6349	5112	J7972	380.39	6	140	-0.09	0.47	0.07
6357	5076	J7980	540.02	6	140	0	0	0
6367	6217	23	2,084.66	6	140	0.17	0.87	1.16
6435	6185	6275	2,929.17	10	140	1.31	2.4	5.89
6439	6175	J7642	1,597.09	8	140	1.24	3.56	8.63
6585	6185	6351	482.89	8	140	-0.57	1.64	0.62
6587	6351	J7668	519.79	8	140	-0.62	1.79	0.78
7	4	3	1,208.62	6	140	0.05	0.28	0.08
9	2	3	550.5	6	140	-0.1	0.5	0.11

TABLE 2-3 - MODEL INFORMATION: NODES

ID	From Node	To Node	Length (ft)	Diameter (in)	Roughness	Flow (cfs)	Velocity (ft/s)	Headloss (ft)
P1001	J7580	J7578	228.7	8	140	-0.18	0.52	0.03
P1003	J7578	J7568	262.25	8	140	-0.42	1.21	0.19
P1005	J7578	J7576	690.58	8	140	0.08	0.22	0.02
P1007	J7574	J7592	398.95	8	140	0.19	0.54	0.07
P1009	J7592	J7594	114.96	8	140	0	0	0
P1011	J7592	J7596	401.28	8	140	0	0	0
P1013	J7558	J7560	423.72	8	140	0	0	0
P1015	J7556	J7552	995.16	8	140	-0.23	0.66	0.24
P1017	J7554	J7552	669.39	8	140	-0.19	0.56	0.12
P1019	J7552	J7550	153.57	8	140	0	0	0
P1021	J7542	J7540	141.12	8	140	-0.26	0.75	0.04
P1023	J7540	J7544	245.3	8	140	0	0	0
P1025	J7538	J7536	137.76	8	140	-0.45	1.29	0.11
P1027	J7540	J7536	702.23	8	140	-0.01	0.04	0
P1029	J7536	J7534	305.83	8	140	-0.46	1.33	0.27
P1031	J7534	J7546	581.31	8	140	0.25	0.71	0.16
P1033	J7546	J7548	114.44	8	140	0	0	0
P1035	J7540	J7546	397.57	8	140	-0.25	0.71	0.11
P1037	J7534	J7530	265.94	8	140	-0.84	2.42	0.7
P1039	J7530	J7504	370.19	8	140	-0.74	2.12	0.77
P1041	J7504	J7532	259.46	8	140	0	0	0
P1043	J7504	J7506	319.88	8	140	-0.82	2.35	0.8
P1045	J7530	J7528	837.74	8	140	-0.1	0.3	0.05
P1047	J7528	J7518	327.73	8	140	-0.51	1.46	0.34
P1049	J7528	J7524	503.21	8	140	0.25	0.7	0.13
P1051	J7524	J7526	135.58	8	140	0.51	1.45	0.14
P1053	J7524	J7520	297.67	8	140	-0.26	0.75	0.09
P1055	J7518	J7520	497.09	8	140	0.44	1.25	0.39
P1057	J7520	J7522	242.39	8	140	0.17	0.5	0.03
P1059	J7518	J7508	362.35	8	140	-0.95	2.71	1.18
P1061	J7506	J7508	344.59	8	140	-0.03	0.07	0
P1063	J7508	J7510	494.27	8	140	-0.97	2.78	1.69
P1065	J7510	J7516	86.22	8	140	0	0	0
P1067	J7510	J7512	315.92	8	140	-0.97	2.78	1.08
P1069	J7506	J7512	855.03	8	140	-0.94	2.7	2.78
P1071	J7512	J7514	139.41	8	140	-1.92	5.49	1.68
P1073	J7552	J7502	584.67	8	140	-0.72	2.07	1.16
P1075	J7504	J7502	371.22	8	140	0.08	0.22	0.01
P1077	J7502	J7500	783.42	8	140	0	0	0
P1079	J7502	J7496	230.28	8	140	-0.64	1.85	0.37
P1081	J7496	J7498	34.02	8	140	0	0	0
P1083	J7496	J7492	270.77	8	140	-0.64	1.85	0.43
P1085	J7492	J7494	41.11	8	140	0.11	0.32	0
P1087	J7492	J7488	274.24	8	140	-0.76	2.16	0.59
P1089	J7488	J7490	35.44	8	140	0.07	0.19	0
P1091	J7488	J7486	351.54	8	140	-0.82	2.35	0.88
P1093	J7486	J7484	31.22	8	140	0	0	0
P1095	J7486	J7482	269.32	8	140	-0.94	2.7	0.87
P1097	J7482	J7480	270.74	8	140	-0.62	1.78	0.41
P1101	J7478	J7476	267.9	8	140	0.32	0.92	0.12
P1103	J7476	J7474	124.74	8	140	0	0	0
P1105	J7482	J7476	660.55	8	140	-0.32	0.92	0.29
P1107	J7480	J7478	660.55	8	140	-0.02	0.06	0

TABLE 2-3 - MODEL INFORMATION: NODES

ID	From Node	To Node	Length (ft)	Diameter (in)	Roughness	Flow (cfs)	Velocity (ft/s)	Headloss (ft)
P1109	6177	J7628	452.81	6	140	0.14	0.71	0.17
P1111	J7624	J7636	1,008.92	6	140	0.09	0.46	0.17
P1113	J7636	J7632	208.17	6	140	0	0	0
P1115	J7636	J7630	371.53	6	140	0.09	0.46	0.06
P1117	J7630	J7634	269.11	6	140	0	0	0
P1119	J7626	J7630	937.9	6	140	0.05	0.27	0.06
P1121	J7620	J7618	1,731.72	6	140	0.1	0.51	0.36
P1123	J7622	J7618	955.05	6	140	0.13	0.64	0.3
P1125	J7606	J7610	311.86	6	140	0.13	0.66	0.1
P1127	J7610	J7612	290.39	6	140	0	0	0
P1129	J7610	J7616	639.79	6	140	0.13	0.66	0.21
P1131	J7618	J7616	306.2	6	140	0.09	0.43	0.05
P1133	J7616	J7614	1,856.96	6	140	0.22	1.1	1.58
P1137	J7638	6179	1,238.00	12	140	2.34	2.98	2.99
P1139	J7640	J7098	279.3	16	140	3.78	2.7	0.4
P1143	J7644	J7144	1,243.36	10	140	0.09	0.16	0.02
P1149	J7658	J7182	890.9	36	140	26.46	3.74	0.91
P1151	J7660	J7640	401.2	16	140	-2.62	1.88	0.29
P1153	J7662	6153	809.88	6	140	0.11	0.57	0.21
P1155	J7664	6155	652.16	8	140	-0.17	0.5	0.09
P1157	J7666	J7674	844.18	8	140	0.09	0.25	0.03
P1159	J7668	6353	142.68	8	140	-0.17	0.49	0.02
P1161	J7670	6183	1,358.28	8	140	-0.66	1.88	2.24
P1163	J7672	5198	798.54	10	140	0.77	1.41	0.6
P1165	6275	J7672	1,838.52	10	140	-0.34	0.63	0.31
P1167	J7644	J7906	1,234.46	8	140	0.29	0.82	0.44
P1169	J7674	6175	53.55	8	140	1.03	2.94	0.2
P1171	J7674	J7562	86.38	12	140	-0.94	1.2	0.04
P1173	J7666	J7542	42.57	8	140	-0.26	0.75	0.01
P1175	J7668	J7538	49.53	8	140	-0.45	1.29	0.04
P1177	J7526	J7670	615.44	8	140	0.51	1.45	0.63
P1179	5230	J7916	534.84	6	140	-0.23	1.17	0.52
P1181	28	J7648	556.65	8	140	-0.6	1.71	0.77
P1183	J7648	J7650	617.24	6	140	0.01	0.04	0
P1185	J7648	J7654	875.78	10	140	-1	1.83	1.07
P1187	J7654	J7652	556.02	6	140	-0.37	1.9	1.31
P1189	J7654	J7638	614.48	10	140	-0.84	1.54	0.54
P1191	J7652	J7656	646.36	6	140	0.02	0.09	0
P1193	J7652	J7098	614.94	6	140	-0.39	1.99	1.58
P1195	J7658	J7890	483.99	20	140	6.51	2.99	0.65
P1197	J7660	J7514	1,798.52	12	140	2.03	2.59	3.35
P1199	J7460	J7662	627.66	6	140	0.02	0.12	0.01
P1201	J7480	6153	272.13	8	140	-0.6	1.72	0.38
P1203	J7664	J7478	279.17	8	140	0.42	1.2	0.2
P1205	6155	J7918	603.89	10	140	1.75	3.2	2.06
P1207	J7646	J7568	176.61	8	140	0.68	1.96	0.32
P1209	J7646	J7566	155.13	8	140	0.6	1.72	0.22
P1211	7175	J7590	17.38	8	140	-0.23	0.67	0
P1213	J7450	J8052	447.2	12	140	3.77	4.8	2.61
P1219	J7676	6155	1,296.70	30	140	20.01	4.08	1.92
P1221	6177	J7678	1,209.22	10	140	0.13	0.23	0.03
P1225	J7682	J7646	1,018.85	10	140	1.28	2.35	1.97
P1229	J7684	5106	387.92	18	140	5.66	3.21	0.67

TABLE 2-3 - MODEL INFORMATION: NODES

ID	From Node	To Node	Length (ft)	Diameter (in)	Roughness	Flow (cfs)	Velocity (ft/s)	Headloss (ft)
P1231	J7684	5102	731.9	6	140	0.72	3.65	5.78
P1233	J7686	5092	2,238.79	6	140	-0.17	0.87	1.25
P1235	J7690	J7950	1,303.29	6	140	-0.53	2.68	5.82
P1237	J7692	6191	338.72	6	140	0.44	2.25	1.09
P1239	J7696	5094	2,683.51	6	140	-0.84	4.25	28.19
P1241	J7710	6193	3,487.45	16	140	-4.44	3.18	6.79
P1243	J7934	6209	1,419.50	6	140	0.25	1.29	1.63
P1247	5100	J7702	1,483.93	6	140	0.85	4.32	16.05
P1249	J7702	J7700	1,223.18	6	140	0.49	2.51	4.83
P1251	J7702	J7708	3,846.61	8	140	0.36	1.02	2.05
P1253	J7710	J7708	1,361.51	8	140	1.51	4.34	10.59
P1257	J7690	J7902	112.17	6	140	0.21	1.05	0.09
P1259	J7696	J7900	275.37	6	140	0.31	1.57	0.46
P1261	J7694	J7700	1,067.97	6	140	-0.49	2.51	4.22
P1263	J7694	J7688	1,410.07	6	140	0.47	2.37	5.02
P1275	J7688	J7692	1,265.98	6	140	0.29	1.5	1.92
P1277	6191	J7686	3,103.53	6	140	-0.08	0.39	0.39
P1283	J7274	J7716	611.47	6	140	0.31	1.58	1.03
P1285	J7716	424	61.05	6	140	0	0	0
P1287	J7716	361	1,886.71	6	140	0.28	1.44	2.68
P1289	361	J7718	2,054.58	6	140	0.21	1.09	1.74
P1293	J7212	J7718	194.1	8	140	0.68	1.94	0.34
P1295	J7718	6165	1,309.66	8	140	0.89	2.55	3.82
P1297	J7208	6157	671.88	6	140	-0.35	1.76	1.38
P1299	J7720	J7722	61.03	6	140	-0.48	2.46	0.23
P1301	J7720	J7894	420.14	6	140	0.79	4	3.95
P1303	J7722	J7326	255.3	6	140	-0.59	3.01	1.41
P1305	J7350	J7896	320.41	6	140	-0.04	0.18	0.01
P1307	J7348	J7326	670.39	6	140	0.1	0.52	0.14
P1309	6159	J7344	725.12	8	140	1.32	3.77	4.36
P1311	J7360	6161	1,387.18	8	140	1.11	3.17	6.05
P1313	6143	J7364	223.66	6	140	-0.26	1.33	0.27
P1315	J7340	J7940	955.32	6	140	0.75	3.8	8.13
P1317	5176	J7316	730.97	6	140	0.72	3.67	5.83
P1319	5176	J7366	317.34	6	140	0.01	0.04	0
P1321	J7298	J7308	168.15	6	140	-0.76	3.85	1.47
P1323	6143	J7828	557.47	8	140	1.01	2.91	2.07
P1325	J7724	J7378	232.4	6	140	-0.31	1.55	0.38
P1327	J7724	6143	733.46	6	140	0.46	2.36	2.59
P1335	J7728	6217	290.85	6	140	0.18	0.94	0.19
P1337	6215	J7728	610.39	6	140	0.18	0.94	0.39
P1339	7	J7096	100.18	6	140	-0.16	0.81	0.05
P1377	STORAGE_POND	J8020	227.5	36	140	33.01	4.67	0.35
P1379	J7162	J7166	402.21	36	140	33.01	4.67	0.62
P1381	J7816	6183	827.41	12	140	1.68	2.14	1.08
P1383	J7818	J7648	862.92	6	140	-0.4	2.02	2.29
P1385	J7820	J7124	1,743.93	18	140	4.8	2.72	2.22
P1387	J7822	6159	731.61	20	140	8.58	3.93	1.63
P1389	6167	J7822	519.04	20	140	8.88	4.07	1.23
P1391	J7824	J7926	253.17	6	140	0.32	1.64	0.45
P1393	J7824	19	1,359.43	6	140	-0.32	1.64	2.43
P1395	J7826	6157	823.78	6	140	-0.6	3.04	4.65
P1397	J7204	J7826	773.13	6	140	0.35	1.79	1.63

TABLE 2-3 - MODEL INFORMATION: NODES

ID	From Node	To Node	Length (ft)	Diameter (in)	Roughness	Flow (cfs)	Velocity (ft/s)	Headloss (ft)
P1399	J7828	J7328	158	6	140	0.57	2.92	0.83
P1401	J7828	J7334	113.19	6	140	0.32	1.62	0.2
P1403	J7830	J7938	393.32	6	140	0.59	3.01	2.18
P1405	J7832	6163	602.69	6	140	0.39	1.97	1.52
P1411	J7890	J7640	835.44	20	140	6.4	2.93	1.08
P1415	J7658	J7834	1,995.64	6	140	0.04	0.2	0.07
P1417	J7852	J7848	666.21	6	140	0.05	0.25	0.04
P1419	J7848	J7850	398.41	6	140	0.04	0.18	0.01
P1421	J7850	J7852	285.79	6	140	-0.09	0.46	0.05
P1423	J7842	J7846	291.6	6	140	-0.12	0.62	0.09
P1425	J7846	J7848	261.46	6	140	-0.13	0.69	0.09
P1427	J7846	J7844	413.43	6	140	0.01	0.07	0
P1429	J7844	J7850	264.09	6	140	-0.13	0.64	0.08
P1431	J7842	J7840	401.57	6	140	0.07	0.34	0.04
P1433	J7840	J7844	320.88	6	140	-0.14	0.71	0.12
P1435	J7842	J7838	515.02	6	140	0.07	0.37	0.06
P1437	J7894	6157	1,193.24	6	140	0.62	3.14	7.14
P1439	J7838	J7836	304.96	6	140	0.01	0.06	0
P1441	J7840	J7836	452.18	6	140	0.04	0.22	0.02
P1443	J7896	J7722	349.19	6	140	-0.11	0.55	0.08
P1445	J7620	J7842	81.05	6	140	0.02	0.09	0
P1447	J7864	J7626	196.81	10	140	0.56	1.02	0.08
P1449	J7864	J7848	68.5	6	140	0.12	0.62	0.02
P1451	J7606	J7838	371.34	6	140	-0.06	0.31	0.03
P1453	J7602	J7836	754.9	6	140	-0.05	0.28	0.05
P1455	J7628	J7852	95.2	6	140	0.14	0.71	0.04
P1457	J7866	J7908	39.72	6	140	-0.53	2.72	0.18
P1461	J7900	J7694	1,017.50	6	140	0.31	1.57	1.69
P1463	J7902	J7688	1,184.06	6	140	0.21	1.05	0.94
P1465	J7904	J7142	1,146.75	10	140	-0.19	0.36	0.07
P1467	J7906	J7642	1,172.52	8	140	-0.22	0.63	0.25
P1469	J7908	J7676	286.24	6	140	-0.53	2.72	1.31
P1471	J7910	J7912	883.57	10	140	1.38	2.54	1.96
P1473	J7912	7200	583.71	10	140	1.32	2.41	1.18
P1475	J7914	J7816	555.26	12	140	2.13	2.71	1.13
P1477	J7916	J7818	1,362.02	6	140	-0.27	1.4	1.82
P1479	J7918	J7946	177.28	10	140	1.47	2.69	0.44
P1481	J7920	J7010	839.58	6	140	0.22	1.12	0.74
P1483	J7922	J8048	403.47	6	140	-0.68	3.48	2.91
P1485	J7924	6161	1,049.52	6	140	-0.51	2.59	4.4
P1487	J7926	5076	980.93	6	140	0.26	1.31	1.16
P1489	J7928	J7974	365.85	20	140	7.3	3.35	0.6
P1491	5108	J7930	975.73	6	12	-0.05	0.26	5.28
P1493	J7932	J7820	1,595.33	18	140	5.16	2.92	2.32
P1495	5076	J7934	738.26	6	140	0.32	1.64	1.33
P1497	J7936	5110	748.31	20	140	-7.2	3.3	1.2
P1499	J7938	5176	242.18	6	140	0.56	2.84	1.2
P1501	J7940	J7830	97.55	6	140	0.67	3.39	0.67
P1503	J7942	J7322	313.09	6	140	-0.63	3.2	1.94
P1505	J7944	J7364	228.72	6	140	0.31	1.57	0.38
P1507	J7946	J7682	173.15	10	140	1.41	2.59	0.4
P1509	J7950	J7696	72.85	6	140	-0.53	2.68	0.33
P1513	J7952	J7140	1,298.09	10	140	0.24	0.44	0.11

TABLE 2-3 - MODEL INFORMATION: NODES

ID	From Node	To Node	Length (ft)	Diameter (in)	Roughness	Flow (cfs)	Velocity (ft/s)	Headloss (ft)
P1519	J7160	J7888	639.35	8	140	1.02	2.92	2.39
P1521	J7888	J7892	74.6	8	140	0.88	2.51	0.21
P1523	J7402	5194	11.65	4	140	0.44	4.99	0.26
P1525	5094	J7712	801.55	6	140	-0.52	2.66	3.53
P1527	J7712	5104	1,473.84	6	140	-0.53	2.7	6.66
P1529	6159	19	423.8	16	140	6.91	4.95	1.88
P1531	J7954	J7368	385.59	12	140	3.66	4.65	2.13
P1533	J7160	J7676	1,331.43	30	140	20.54	4.18	2.07
P1535	J7956	6215	366.04	10	140	-0.06	0.11	0
P1537	6215	J7958	682.24	6	140	-0.17	0.87	0.38
P1539	6155	J7970	1,237.15	30	140	17.81	3.63	1.48
P1541	J7964	J7976	1,387.86	20	140	8.61	3.95	3.11
P1543	J7970	J7964	138.62	20	140	8.85	4.06	0.33
P1545	6145	J7966	1,262.19	6	140	0.45	2.29	4.2
P1547	J7966	J7968	953.44	20	140	-8.73	4	2.19
P1549	J7968	J7970	1,263.52	20	140	-8.78	4.02	2.94
P1551	J7958	J7960	676.42	6	140	-0.17	0.87	0.38
P1553	J7964	J7962	1,272.40	6	140	0.24	1.24	1.37
P1555	J7962	J7960	953.2	6	140	0.24	1.24	1.03
P1557	J7972	J7928	693.62	20	140	7.42	3.4	1.18
P1559	23	J7972	303.67	20	140	7.51	3.44	0.53
P1561	J7974	5110	510.28	20	140	7.2	3.3	0.82
P1563	J7974	J7930	2,679.66	6	140	0.1	0.49	0.51
P1567	J7976	J7624	189.35	10	140	0.77	1.41	0.14
P1569	J7976	23	1,057.29	20	140	7.39	3.39	1.79
P1571	J7978	6167	1,309.23	6	140	-0.24	1.23	1.37
P1573	6139	J7340	66.97	12	140	2.45	3.12	0.18
P1575	J7966	6167	1,207.78	20	140	9.15	4.19	3.03
P1579	J7982	6141	79.35	12	140	3.77	4.8	0.46
P1581	J7984	6143	919.48	6	140	0.29	1.47	1.35
P1585	6209	5094	300.8	16	140	5.29	3.79	0.81
P1587	J7700	J7988	774.1	6	140	0	0	0
P1607	J8012	J7170	486.58	36	140	33.01	4.67	0.75
P1621	J8020	J8024	321.03	36	140	33.01	4.67	0.5
P1633	J8022	STORAGE_POND	5,438.25	18	140	0	0	0
P1637	J8024	J7162	1,088.94	36	140	33.01	4.67	1.68
P1641	5082	J8026	508.57	6	140	0	0	0
P1643	J8028	6165	882.17	6	140	-0.23	1.15	0.82
P1645	J7922	J8028	715.66	6	140	0.05	0.26	0.04
P1647	J8028	J8030	897.06	6	140	0.41	2.08	2.5
P1649	J8030	11	731.08	6	140	0.41	2.08	2.04
P1665	J8038	6203	416.52	10	140	0.25	0.45	0.04
P1667	J8040	6201	195.67	6	140	-0.14	0.72	0.08
P1669	J8042	6189	1,657.06	6	140	-0.28	1.45	2.36
P1671	J8044	6205	598.29	6	140	-0.26	1.31	0.71
P1673	J8046	J7924	648.02	6	140	-0.4	2.02	1.72
P1675	J8048	J7826	215.39	6	140	-0.68	3.48	1.56
P1677	J8050	J7660	200.54	6	140	-0.46	2.35	0.7
P1679	J8052	J7982	189.74	12	140	3.77	4.8	1.11
P1681	J7984	6159	310.42	6	140	-0.29	1.47	0.46
P1683	J8056	20	700.5	16	140	6.08	4.36	2.45
P1685	J8054	J7932	688.1	18	140	5.66	3.2	1.19
P1687	J8022	J8058	3,439.36	30	140	0	0	0

TABLE 2-3 - MODEL INFORMATION: NODES

ID	From Node	To Node	Length (ft)	Diameter (in)	Roughness	Flow (cfs)	Velocity (ft/s)	Headloss (ft)
P367	6355	6275	231.4	10	140	-1.36	2.49	0.5
P375	6151	J8050	805.06	6	140	-0.46	2.35	2.82
P377	J7098	J7638	550.87	12	140	3.18	4.05	2.35
P457	5106	J8054	1,030.67	18	140	5.66	3.2	1.78
P467	J7124	J7132	2,671.63	16	140	3.69	2.64	3.7
P469	J7132	J7130	2,604.22	12	140	1.58	2.01	3.04
P475	J7130	J7138	2,864.79	6	140	0.45	2.28	9.45
P477	J7136	J7138	2,552.61	12	140	0.86	1.1	0.98
P479	J7132	J7136	2,899.36	6	140	0.49	2.52	11.51
P481	J7134	J7136	2,687.26	16	140	2.75	1.97	2.16
P483	J7134	J7710	1,332.63	16	140	-1.63	1.17	0.41
P485	J7124	J7134	2,955.70	8	140	1.11	3.19	13.05
P491	5198	J7952	1,095.53	10	140	0.75	1.37	0.78
P493	J7140	J7142	1,516.18	10	140	0.19	0.36	0.09
P495	6355	J7644	371.09	10	140	1.36	2.49	0.8
P497	J7144	J7904	1,843.90	10	140	0.09	0.16	0.02
P531	39	6165	893	8	140	-0.62	1.77	1.32
P559	J7166	J7190	2,137.26	36	140	33.01	4.67	3.3
P561	J7170	J7186	1,490.69	36	140	33.01	4.67	2.3
P563	J7172	J7174	539.1	36	140	33.01	4.67	0.83
P565	J7174	J7176	488.6	36	140	33.01	4.67	0.75
P567	J7176	J7178	125.21	36	140	33.01	4.67	0.19
P569	J7178	J7180	1,287.76	36	140	33.01	4.67	1.99
P571	J7180	J7658	828.83	36	140	33.01	4.67	1.28
P573	J7182	J7160	1,836.73	36	140	26.46	3.74	1.88
P575	J7184	J7172	1,521.22	36	140	33.01	4.67	2.35
P577	J7186	J7184	1,933.33	36	140	33.01	4.67	2.98
P579	J7188	J8012	3,160.45	36	140	33.01	4.67	4.88
P581	J7190	J7188	2,182.85	36	140	33.01	4.67	3.37
P587	J7196	16	661.63	6	140	-0.41	2.08	1.84
P589	J7198	J7200	163.1	6	140	-0.14	0.7	0.06
P591	J7200	J7196	917.34	6	140	-0.14	0.7	0.34
P595	J7368	J7370	305.03	12	140	2.84	3.62	1.06
P597	J7370	6139	893.03	12	140	2.59	3.3	2.62
P599	J7160	J7448	12.64	20	140	4.9	2.25	0.01
P601	J7448	J7452	475.41	20	140	4.37	2	0.3
P603	J7452	J7450	132.45	20	140	3.77	1.73	0.06
P605	J7452	J7454	299.98	6	140	0.47	2.38	1.08
P607	J7454	J7426	297.67	6	140	0.5	2.56	1.22
P609	J7426	J7424	363.81	6	140	0.48	2.44	1.37
P611	J7448	J7446	298.76	6	140	0.53	2.71	1.37
P613	J7446	J7444	299.3	6	140	0.5	2.53	1.2
P615	J7444	J7442	328.96	6	140	0.44	2.23	1.05
P617	J7424	J7442	516.36	6	140	-0.19	0.98	0.36
P619	J7442	J7456	261.09	6	140	0.1	0.5	0.05
P621	J7456	J7458	293.55	6	140	0.05	0.28	0.02
P623	J7458	J7460	140.44	6	140	0.02	0.12	0
P625	J7456	J7462	595.23	6	140	0.04	0.23	0.03
P627	J7458	J7462	354.15	6	140	0.03	0.15	0.01
P629	J7462	J7464	118.05	6	140	0	0	0
P631	J7446	J7454	479.69	6	140	0.04	0.18	0.01
P633	J7444	J7426	482.72	6	140	0.06	0.3	0.04
P635	J7442	J7436	883.48	6	140	0.15	0.75	0.37

TABLE 2-3 - MODEL INFORMATION: NODES

ID	From Node	To Node	Length (ft)	Diameter (in)	Roughness	Flow (cfs)	Velocity (ft/s)	Headloss (ft)
P637	J7436	J7438	285.76	6	140	0.03	0.18	0.01
P639	J7438	J7440	583.79	6	140	0	0	0
P641	J7424	J7428	275.85	6	140	0.05	0.27	0.02
P643	J7428	J7430	567.22	6	140	0.04	0.21	0.02
P645	J7436	J7434	256.02	6	140	0.04	0.23	0.01
P647	J7428	J7434	815.95	6	140	0.01	0.06	0
P649	J7430	J7432	134.49	6	140	0	0	0
P651	J7430	J7434	262.61	6	140	-0.06	0.29	0.02
P653	J7430	J7438	791.22	6	140	-0.03	0.18	0.02
P655	J7424	J7420	264.88	6	140	0.62	3.16	1.6
P657	J7420	J7422	298.26	6	140	0.09	0.48	0.06
P659	J7420	J7418	575.76	6	140	0.53	2.68	2.57
P663	J7418	J7414	702.39	6	140	0.03	0.14	0.01
P665	J7418	J7404	633.87	6	140	0.48	2.47	2.43
P667	J7404	J7406	44.03	6	140	0.21	1.07	0.04
P669	J7406	J7408	43.57	6	140	0	0	0
P671	J7406	J7410	520.56	6	140	0.21	1.07	0.43
P673	J7410	J7412	544.38	6	140	0.05	0.25	0.03
P675	J7412	5196	333.22	6	140	0.08	0.39	0.04
P677	J7410	J7412	1,482.69	6	140	0.03	0.14	0.03
P679	J7404	J7402	301.9	6	140	0.27	1.4	0.4
P681	5178	J7466	164.19	6	140	0.03	0.17	0
P683	5178	J7472	314.05	6	140	-0.01	0.04	0
P685	J7472	J7366	133.15	6	140	-0.01	0.04	0
P687	J7472	J7468	537.11	6	140	0	0	0
P689	5178	J7470	526.12	6	140	0.07	0.36	0.06
P691	J7402	J7396	358.33	6	140	-0.16	0.82	0.18
P693	J7396	J7392	331.09	6	140	-0.14	0.7	0.12
P695	J7392	J7394	148.7	6	140	0	0	0
P697	J7396	J7398	679.38	6	140	-0.11	0.57	0.17
P699	J7398	J7400	18.15	6	140	0	0	0
P701	J7390	J7398	309.06	6	140	0.11	0.57	0.08
P7011	5090	7040	554.17	6	140	-0.15	0.75	0.23
P7013	40	J7010	184.13	6	140	0	0	0
P7015	J7010	7040	848.49	6	140	0.18	0.89	0.5
P7021	7175	6175	1,021.65	8	140	0.22	0.62	0.21
P7023	7200	J7672	896.41	10	140	1.2	2.19	1.52
P703	J7390	J7392	354.31	6	140	0.14	0.7	0.13
P705	J7370	J7390	444.6	6	140	0.25	1.27	0.5
P707	J7368	J7388	562.64	6	140	0.79	4	5.28
P709	J7388	J7386	264.62	6	140	0.39	1.98	0.67
P711	J7386	J7382	461.46	6	140	0.1	0.51	0.09
P713	J7382	J7384	123.05	6	140	0.08	0.42	0.02
P715	J7382	J7378	257.17	6	140	0.26	1.32	0.31
P717	J7386	J7380	258.41	6	140	0.29	1.47	0.38
P719	J7380	J7378	465.14	6	140	0.05	0.24	0.02
P721	J7388	J7372	564.24	6	140	0.36	1.81	1.22
P723	J7372	J7374	132.26	6	140	0	0	0
P725	J7372	J7376	278.77	6	140	0	0.02	0
P727	J7376	J7380	329.89	6	140	-0.16	0.83	0.17
P729	J7376	J7724	482.58	6	140	0.16	0.81	0.23
P731	J7372	J7342	687.05	6	140	0.36	1.83	1.52
P735	J7340	J7342	563.45	6	140	0.69	3.52	4.16

TABLE 2-3 - MODEL INFORMATION: NODES

ID	From Node	To Node	Length (ft)	Diameter (in)	Roughness	Flow (cfs)	Velocity (ft/s)	Headloss (ft)
P737	J7342	J7944	313.65	6	140	0.35	1.78	0.65
P739	J7342	J7338	551.33	6	140	0.67	3.41	3.85
P741	J7340	J7314	653.1	6	140	0.93	4.76	8.44
P743	J7338	J7332	382.49	6	140	0.14	0.69	0.14
P745	J7332	J7336	112.4	6	140	0	0	0
P747	J7332	J7334	234.63	6	140	-0.32	1.62	0.41
P749	J7338	J7318	122.8	6	140	0.47	2.38	0.44
P751	J7318	J7320	165.61	6	140	0.5	2.52	0.66
P753	J7320	J7330	354.89	6	140	0	0.02	0
P755	J7330	J7326	349.02	6	140	-0.08	0.43	0.05
P757	J7326	J7328	132.11	6	140	-0.57	2.92	0.69
P759	J7332	J7330	281.94	6	140	0.45	2.32	0.96
P761	J7320	J7322	291.82	6	140	0.5	2.55	1.19
P763	J7322	J7324	359.18	6	140	-0.15	0.76	0.15
P765	J7324	J7330	307.57	6	140	-0.45	2.3	1.03
P767	J7324	J7720	351.07	6	140	0.3	1.54	0.56
P769	J7314	J7318	636.22	6	140	0.03	0.15	0.01
P771	J7314	J7306	431.64	6	140	0.9	4.61	5.26
P773	J7306	J7308	18.51	6	140	0.76	3.85	0.16
P775	J7306	J7942	320.53	6	140	-0.53	2.7	1.45
P777	J7306	J7304	253.55	6	140	0.68	3.46	1.82
P779	J7304	J7312	293.76	6	140	0.01	0.07	0
P781	J7304	J7302	276.52	6	140	0.67	3.39	1.91
P783	J7302	J7284	273.88	6	140	0.67	3.39	1.89
P785	J7284	J7282	275.55	6	140	0.15	0.78	0.13
P787	J7282	J7280	291.67	6	140	0.13	0.68	0.1
P789	J7280	J7278	257.3	6	140	-0.08	0.42	0.04
P791	J7278	J7276	292.78	6	140	0.09	0.45	0.05
P793	J7302	J7310	292.99	6	140	0	0	0
P795	J7276	J7294	162.69	6	140	-0.26	1.32	0.2
P797	J7294	J7296	776.32	6	140	0.1	0.51	0.16
P799	J7294	J7292	200.68	6	140	-0.36	1.83	0.44
P801	J7292	J7316	126.65	6	140	-0.68	3.48	0.92
P803	J7278	J7290	354.94	6	140	-0.17	0.87	0.2
P805	J7280	J7288	349.98	6	140	-0.12	0.63	0.11
P807	J7282	J7286	338.22	6	140	0.02	0.1	0
P809	J7284	J7286	556.1	6	140	0.11	0.54	0.13
P813	J7286	J7288	286.38	6	140	-0.03	0.15	0.01
P815	J7288	J7290	272.72	6	140	-0.15	0.78	0.13
P817	J7290	J7292	215.91	6	140	-0.32	1.65	0.39
P819	J7276	J7268	281.49	6	140	0.35	1.77	0.58
P821	J7268	J7272	1,084.39	6	140	0.15	0.74	0.44
P823	J7268	J7270	255.62	6	140	0.27	1.38	0.33
P825	J7270	J7272	165.08	6	140	0.19	0.96	0.11
P827	J7284	J7254	309.45	6	140	0.41	2.07	0.86
P829	J7280	J7266	268.39	6	140	0.34	1.73	0.53
P831	J7266	J7264	259.52	6	140	0.27	1.38	0.34
P833	J7264	J7252	180.77	6	140	0.12	0.61	0.05
P835	J7252	J7230	244.93	6	140	0.21	1.07	0.2
P837	J7252	J7250	268.39	6	140	-0.09	0.46	0.05
P839	J7250	J7254	723.18	6	140	-0.13	0.67	0.25
P841	J7254	J7248	451.36	6	140	0.17	0.88	0.26
P843	J7250	J7248	327.16	6	140	0.04	0.2	0.01

TABLE 2-3 - MODEL INFORMATION: NODES

ID	From Node	To Node	Length (ft)	Diameter (in)	Roughness	Flow (cfs)	Velocity (ft/s)	Headloss (ft)
P845	J7254	J7256	295.03	6	140	0.1	0.52	0.06
P847	J7256	J7258	269.49	6	140	-0.01	0.06	0
P849	J7258	J7300	114.52	6	140	0	0	0
P851	J7248	J7246	252.87	6	140	-0.12	0.62	0.07
P853	J7246	J7244	288.34	6	140	-0.15	0.75	0.12
P855	J7244	J7242	224.02	6	140	-0.16	0.81	0.11
P857	J7242	J7298	575.92	6	140	-0.74	3.76	4.81
P859	J7244	J7258	450.25	6	140	0.01	0.06	0
P861	J7256	J7246	449.17	6	140	0.11	0.58	0.12
P863	J7266	J7268	604.48	6	140	0.07	0.35	0.06
P865	J7264	J7262	257.31	6	140	0.15	0.77	0.11
P867	J7262	J7270	365.98	6	140	-0.08	0.42	0.05
P869	J7262	J7260	380.29	6	140	0.09	0.45	0.06
P871	J7272	J7274	166.35	6	140	0.31	1.58	0.28
P873	J7272	J7260	392.49	6	140	0.02	0.12	0.01
P875	J7230	J7228	134.37	6	140	0.04	0.21	0
P877	J7260	J7228	330.69	6	140	0.11	0.57	0.08
P879	J7230	J7232	339.75	6	140	0.17	0.87	0.19
P881	J7248	J7236	260.71	6	140	0.33	1.7	0.5
P883	J7236	J7232	256.81	6	140	-0.12	0.63	0.08
P885	J7232	J7226	283.27	6	140	0.05	0.23	0.01
P887	J7228	J7226	440.87	6	140	0.15	0.77	0.2
P889	J7236	J7234	259.51	6	140	0.2	1.04	0.2
P891	J7234	J7238	259.6	6	140	0.1	0.52	0.06
P893	J7238	J7240	239.56	6	140	-0.1	0.51	0.05
P895	J7242	J7240	259.6	6	140	0.49	2.5	1.02
P897	J7240	J7218	669.46	6	140	0.39	1.99	1.72
P899	J7218	J7216	22.97	6	140	0.17	0.84	0.01
P901	J7226	J7224	249.57	6	140	0.2	1.01	0.18
P903	J7236	J7224	356.45	6	140	0.13	0.65	0.12
P905	J7224	J7222	281.5	6	140	0.19	0.98	0.19
P907	J7222	J7220	306.3	6	140	0.29	1.5	0.46
P909	J7234	J7222	503.87	6	140	0.1	0.52	0.11
P911	J7238	J7220	670.25	6	140	0.2	1.04	0.52
P913	J7220	J7216	289.83	6	140	0.5	2.53	1.17
P915	J7218	J7206	581.95	6	140	0.22	1.14	0.54
P917	J7206	J7208	115.35	6	140	-0.35	1.76	0.24
P919	J7206	J7202	354.9	6	140	0.43	2.19	1.09
P921	J7202	J7204	146.18	6	140	0.35	1.79	0.31
P923	J7210	J7202	590.3	6	140	-0.01	0.07	0
P925	J7216	J7210	236.74	6	140	0.66	3.38	1.62
P927	J7210	J7212	207.02	6	140	0.68	3.45	1.47
P929	J7358	J7352	495.53	6	140	0.22	1.11	0.43
P931	J7352	J7350	145.95	6	140	-0.04	0.18	0
P933	J7352	J7354	252.39	6	140	0.19	0.95	0.17
P935	J7354	J7362	18.53	6	140	0	0	0
P937	J7356	J7354	492.81	6	140	-0.19	0.95	0.33
P939	J7346	J7348	644.71	6	140	0.1	0.52	0.14
P941	J7344	J7346	128.17	8	140	1.31	3.75	0.76
P943	J7346	J7358	264.72	8	140	1.21	3.46	1.36
P945	J7358	J7356	260.62	8	140	0.99	2.84	0.92
P947	J7356	J7360	45.48	8	140	1.18	3.37	0.22
P949	J7602	J8038	1,525.92	10	140	0.25	0.45	0.14

TABLE 2-3 - MODEL INFORMATION: NODES

ID	From Node	To Node	Length (ft)	Diameter (in)	Roughness	Flow (cfs)	Velocity (ft/s)	Headloss (ft)
P951	J7606	J7602	357.26	10	140	0.19	0.35	0.02
P953	J7620	J7622	277.84	10	140	0.39	0.71	0.06
P955	J7622	J7606	300.1	10	140	0.26	0.48	0.03
P957	J7624	J7864	157.68	10	140	0.68	1.24	0.09
P959	J7626	J7620	341.2	10	140	0.51	0.93	0.12
P961	J7562	J7558	390.2	12	140	-0.96	1.22	0.18
P963	J7558	J7556	430.19	12	140	-0.96	1.22	0.2
P965	J7556	J7554	369.6	12	140	-0.79	1.01	0.12
P967	J7554	J7566	155.92	12	140	-0.6	0.76	0.03
P969	J7566	J7564	35.47	12	140	0	0	0
P971	J7590	J7586	710.86	8	140	-0.23	0.67	0.17
P973	J7586	J7584	205.1	8	140	-0.12	0.35	0.01
P975	J7584	J7582	900.2	8	140	-0.04	0.12	0.01
P977	J7584	J7582	297.92	8	140	-0.08	0.22	0.01
P979	J7582	J7580	392.45	8	140	-0.12	0.35	0.03
P983	J7568	J7570	114.96	8	140	0	0	0
P985	J7598	J7600	117.89	8	140	0	0	0
P987	J7586	J7588	200.37	8	140	-0.21	0.6	0.04
P989	J7588	J7580	683.42	8	140	-0.06	0.17	0.01
P991	J7568	J7598	337.4	8	140	0.26	0.75	0.1
P993	J7598	J7574	355.4	8	140	0.26	0.75	0.11
P995	J7574	J7572	141.76	8	140	0	0	0
P997	J7588	J7576	243.87	8	140	-0.15	0.43	0.03
P999	J7576	J7574	262.71	8	140	-0.07	0.21	0.01

APPENDIX C
WATER RIGHTS

DRAFT

Springville City Water Right Information

Name	WR/CH/EX #	Type	Status	App #	Cert #
Springville City Corporation Underground Water Wells (5 existing)	a26443	102.9 acft	APP		
Springville City Underground Water Wells (7)	a28365	11.0 cfs	APP		
Springville City Underground Water Wells (7 existing/approved)	a28366	439.03 acft	APP		
Springville Municipal Corporation Jurd Springs	51-5328	1.0 cfs	APP		
Springville Municipal Corporation Burt Springs	51-5329	5.5 cfs	APP		
Springville Municipal Corporation Underground Water Well (Konold Tunnel)	51-5330	0.4 cfs	APP		
Springville Municipal Corporation Springs in Spring Creek Canyon	51-6027	5.5 cfs	APP		
Springville City Corporation Underground Water Wells (7)	a28367	2377.76 acft	APP		
Springville City Corporation Little Spring Creek	a24494	37.2 acft	APP		
Springville City Corporation, Spring Creek Canyon Creek	51-6219	7.000 cfs	DIL	WUC D5546	
Springville City, Little Spring Creek	51-5450	2.970 cfs	DIL		
Springville City, Right Fork Little Spring Creek	51-5454	0.500 cfs water for 8.34 acres of ground	DIL		

Springville City Water Right Information

Name	WR/CH/EX #	Type Status	App #	Cert #
Springville Irrigation Company, Underground Water Well #8 Priority: 06/00/1934	51-1943 0.223	UGWC cfs	U7129	
Springville Irrigation Company, Underground Water Well #1 Priority: 06/13/1934	51-1996 0.535	UGWC cfs	U8325	
Springville Irrigation Company, Underground Water Well #2 Priority: 06/19/1934	51-1997 0.379	UGWC cfs	U8326	
Springville Irrigation Company, Underground Water Well #3 Priority: 06/25/1934	51-1998 0.512	UGWC cfs	U8327	
Springville Irrigation Company, Underground Water Well #4 Priority: 06/13/1934	51-1999 0.512	UGWC cfs	U8328	
Springville Irrigation Company, Underground Water Well #5 Priority: 06/13/1934	51-2000 0.557	UGWC cfs	U8329	
Springville Irrigation Company, Underground Water Well #6 Priority: 06/13/1934	51-2001 0.446	UGWC cfs	U8330	
Springville Irrigation Company, Underground Water Well #7 Priority: 06/13/1934	51-2002 0.401	UGWC cfs	U8331	
Springville Irrigation Company, Underground Water Drains #1,2,3 Priority: 00/00/1923	51-2042 5.000	UGWC cfs	U9649	

Springville City Water Right Information

Name	WR/CH/EX #	Type	Status	App #	Cert #
Springville Irrigation Company, Hobble Creek Priority: / /1851	51-5220	DEC	WUC	3666.2 acft	
Springville Irrigation Company, Dry Creek Priority: 00/00/1851	51-5226	DIL		32.430 cfs	
Springville Irrigation Company, Lower Bartholomew Spring Priority: 00/00/1851	51-5520	DIL		4.000 cfs	
Springville Irrigation Company, Hobble Creek Priority: 00/00/1852	51-5599	DEC		22.100 cfs	
Springville Irrigation Company, Hobble Creek Priority: 00/00/1853	51-5600	DEC		34.700 cfs	
Springville Irrigation Company, Left Fork Hobble Creek Priority: / /1851	51-5606	DIL	WUC	42.500 cfs	
Springville Irrigation Company, Left Fork Hobble Creek Priority: / /1852	51-5607	DIL	WUC	22.100 cfs	
Springville Irrigation Company, Left Fork Hobble Creek Priority: / /1853	51-5608	DIL	WUC	34.700 cfs	
Springville Irrigation Company, Burt Spring Priority: 05/14/1890	51-5623	DEC	WUC	2.000 cfs	

Springville City Water Right Information

Name	WR/CH/EX #	Type	Status	App #	Cert #
Springville Irrigation Company, Cherry Spring Priority: / /1851	51-5624 42.500	DIL cfs	WUC		
Springville Irrigation Company, Sulfur Spring Priority: / /1851	51-5625 42.500	DIL cfs	WUC		
Springville Irrigation Company, Birch Spring #1 Priority: / /1851	51-5626 42.500	DIL cfs	WUC		
Springville Irrigation Company, Birch Spring #2 Priority: / /1851	51-5627 42.500	DIL cfs	WUC		
Springville Irrigation Company, Kolob Spring Priority: / /1851	51-5628 42.500	DIL cfs	WUC		
Springville Irrigation Company, Dry Creek Spring #1 Priority: / /1851	51-5629 42.500	DIL cfs	WUC		
Springville Irrigation Company, Dry Creek Spring #2 Priority: 00/00/1851	51-5630 42.500	DIL cfs			
Springville Irrigation Company, Balsam Spring Priority: 00/00/1851	51-5631 42.500	DIL cfs			
Springville Irrigation Company, Hobble Creek Priority: / /1851	51-7273 52.0	DEC acft			

Springville City Water Right Information

Name	WR/CH/EX #	Type	Status	App #	Cert #
Springville Irrigation Company, Hobble Creek Priority: 00/00/1851	51-7593	DEC	16.0	acft	
Springville Irrigation Company, Hobble Creek Priority: / /1851	51-7655	DEC	24.0	acft	
Springville Irrigation Company, Hobble Creek Priority: / /1851	51-8368	DEC	1236.1	acft	WUC
Springville Irrigation Company, Underground Water Well Priority: 08/23/1999	a23638		52.0	acft	APP
Springville Irrigation Company, Underground Water Wells (2) Priority: 06/21/2001	a25711		16.0	acft	APP
Springville Irrigation Company, Underground Water Wells (7, exiting or approved) Priority: 12/02/2008	a35091		1236.1	acft	UNAP