

Town of Hideout



Sewer Capital Facility Plan

May 2021

Prepared By:



T-O ENGINEERS

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Sewer Capital Facility Plan

May 2021

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TABLE OF CONTENTS

Table of Contents	3
List of Tables	3
List of Figures	3
Executive Summary	5
Introduction.....	6
Topography	8
Planning Period	10
Planning Area	10
Population and Growth Projections.....	10
Future Sewer Connection Projections	10
Existing Sewer System	12
Pumping	12
Treatment	12
Collection System	12
Modeling	14
Recommended Sewer System Improvements and Upgrades.....	16
Collection System	16
Capacity.....	16
Lift Stations	16
Construction Prioritization.....	17
Opinion of Probable Cost.....	18
Unit Cost Justification	18
Funding Alternatives.....	19
Capital Facility Funding (Upgrades).....	19
Summary	20
Resources	21
Appendix.....	22
A. Lift Station Pump ID Tags	
B. KSB KRT Pump Curve.....	
C. Additional ERU Locations for Buildout Conditions.....	
D. Estimated Project Costs	
E. SewerGEMs Report	

LIST OF TABLES

Table 1. Growth Projections	10
Table 2. Project Prioritization	17
Table 3. Conceptual Unit Cost Summary	18
Table 4. Estimated Project Cost Summary	19
Table 5. Considered Sewer Main Updates for Silver Sky	
Table 6. Considered Lift Station Updates for Deer Waters	
Table 7. Considered Lift Station Updates for Dead Man's Gulch	

LIST OF FIGURES

Figure 1. Existing Sewer Service Areas.....	7
Figure 2. USGS Site Map	9
Figure 3. Future Buildout Sewer Service Areas.....	11
Figure 4. Existing Sewer Service System	13



Figure 5. Pipes are Overly Full in Silver Sky 15

Town of Hideout**SEWER CAPITAL FACILITY PLAN****EXECUTIVE SUMMARY**

The Town of Hideout's sewer system is expected to experience growth as the community expands. In order for the sewer system to adequately handle the additional demands from future growth, system deficiencies will need to be corrected. Deficiencies have been identified at Silver Sky, Dead Man's Gulch Lift Station, and Deer Waters Phase I Lift Station. Funding for these projects will likely come from user rate adjustments, government grants, and low interest loans.



INTRODUCTION

The Town of Hideout (Town) is located in the northwestern corner of Wasatch County, Utah, just northeast of Jordanelle Reservoir along Highway 248. The Town was incorporated in 2008 and had a population of 658 in the 2010 census. In 2020, the Town had a population of approximately 1,121 residents and occupied 2,500 acres.

The subdivisions included in this analysis are as follows:

- Deer Waters
- Deer Springs
- Klaim
- Deer Mountain
- Shoreline Phase I, Phase II, and the remaining Shoreline development
- Golden Eagle Phases I, II, and III
- Venturi
- Plumb
- Glistening Ridge
- Rustler
- Lakeview Estates
- Soaring Hawk
- Silver Sky
- Reflection Lane
- Reflection Ridge
- Overlook Village
- Forevermore

At the time of this report, some of these subdivisions are built, some are in planning stages, and some are under construction. ***The existing sewer model was updated on November 9, 2020, and this is the model used for this Capital Facility Plan.***

A Town-operated sewer system serves the residents of Hideout. The sewer system currently includes 3 lift stations, all of which currently pump waste north to the Jordanelle Special Service District (JSSD) Lift Station. The existing Town lift stations are: Dead Man's Gulch, Vantage Lane (in Shoreline Phase II), and Deer Waters Phase I. Figure 1 highlights the general service area of the existing sewer system as well as the locations of the lift stations.



Figure 1. Existing Sewer Service Area



1 in = 1,750 ft



Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community

Legend



Lift Station



Existing Service Area

**TOWN OF HIDEOUT
SEWER SYSTEM**

DATE: 6/30/2020



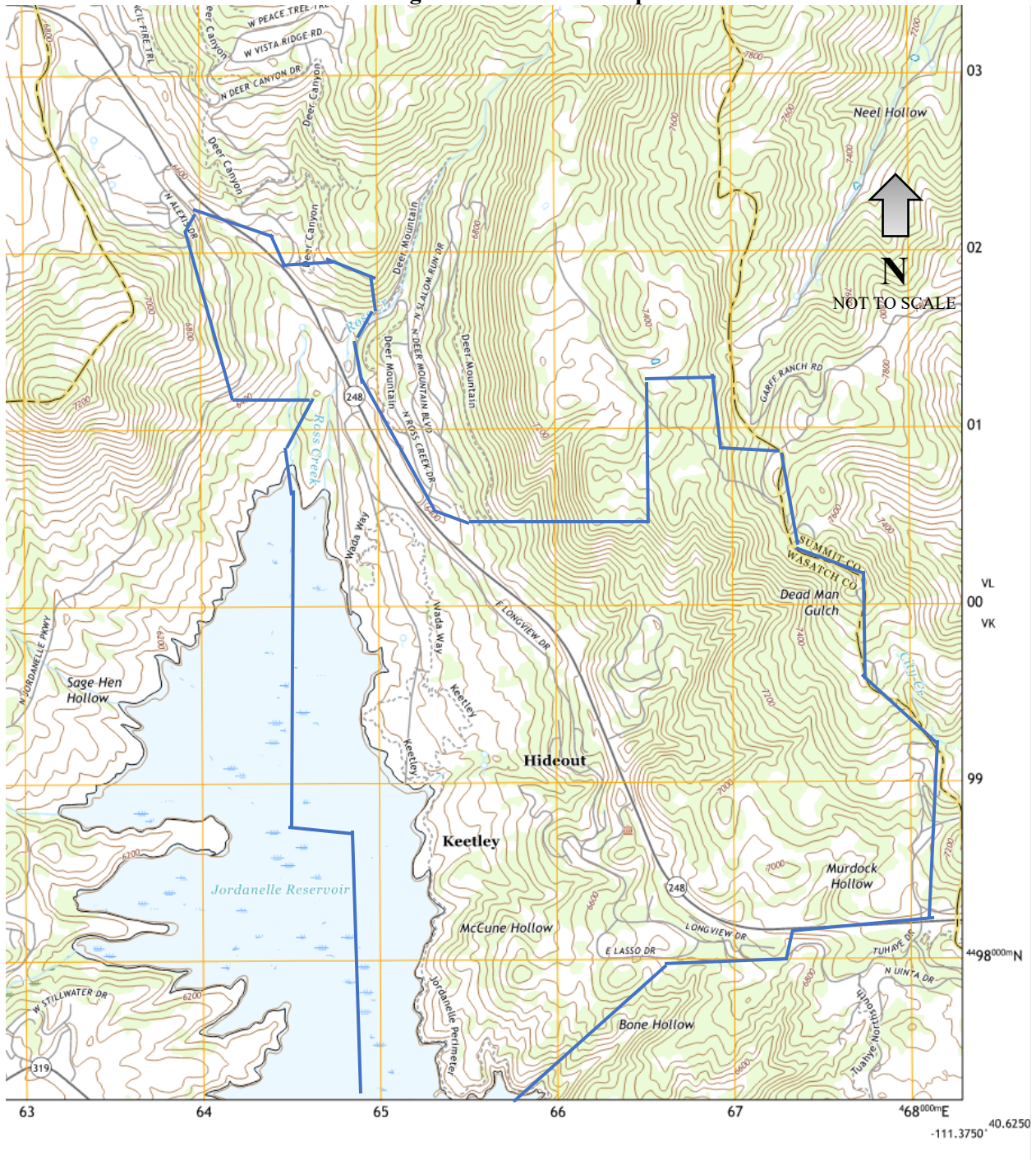
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TOPOGRAPHY

The Town of Hideout is located amongst Deer Valley, the Wasatch Mountains, and the Jordanelle Reservoir in Wasatch County. Within the Town's boundary, the topography consists of steep, mountainous terrain. There is a high area on the northeast side of the Town that is around 7,700 ft, and the lowest part of the Town is along the Jordanelle Reservoir with an elevation of about 6,150 ft. The elevation relief of approximately 1,550 feet is a major reason for the existence of the 3 lift stations within the service area, and additional unit-specific pumps in Rustler. A USGS map of the area is shown in Figure 2 with the Town Boundary roughly outlined.



Figure 2. USGS Site Map



PLANNING PERIOD

Development within the town is expected to continue for the next 10-15 years. It is expected that the town will reach full buildout before 2040 unless major re-zoning or large annexations occur. As the town grows, it is likely that this plan will become outdated. To ensure that the town will have the ability to adequately maintain and expand the town's sewer system, it is ***recommended that this report be updated every 10 years until full buildout is reached, or when major development changes occur.***

PLANNING AREA

A significant portion of the town is under construction or has plans to be developed. Subdivisions such as (but not limited to) Deer Springs, Golden Eagle, Lakeview Estates, and Shoreline are in the beginning stages of construction or are still in the planning stages. To account for this growth, the anticipated Equivalent Residential Units (ERUs), or family dwellings, were estimated based on plats and plans provided by developers. Potential annexation areas are not accounted for in this Capital Facility Plan. As such, this report will be limited to improving the sewer system within the existing town boundaries. If large annexations occur, this plan will need to be revisited and updated accordingly. Prior to providing services to a new annexation, the town will need to carefully determine the full system impacts, storage, capacity, and other details and require any impacts to be mitigated through impact fees, or the construction of additional facilities.

POPULATION AND GROWTH PROJECTIONS

The average growth rate in the Town of Hideout was 5.48% between 2010 and 2020. However, to estimate the number of residents after full buildout is completed, plats and plans were used to count the number of ERUs for the existing conditions and the full buildout.

Using the *Jordanelle Special Service District Water and Sewer Master Plan* from June 2015, it was assumed that each equivalent residential unit produces 340 GPD, or 0.24 GPM, of waste. A Peak Hour Sewer Production of 2.5 was used for peak hour analysis and is equivalent to 0.59 GPM/ERU of waste.

Table 1. Growth Projections

	2010	2015	2020	2040 (full buildout)
Town of Hideout Population	658	825	1,121	Not analyzed
ERUs	N/A	N/A	450	2,279

FUTURE SEWER CONNECTION PROJECTIONS

The sewer system currently provides services for approximately 450 ERUs. The buildout conditions will require sewer services for approximately 2,279 ERUs (see Section B of the Appendix for potential annexation parcels). The sewer system will be laid as development occurs. This analysis was used to determine if the existing system can be expanded upon or if new sewer lines are needed.

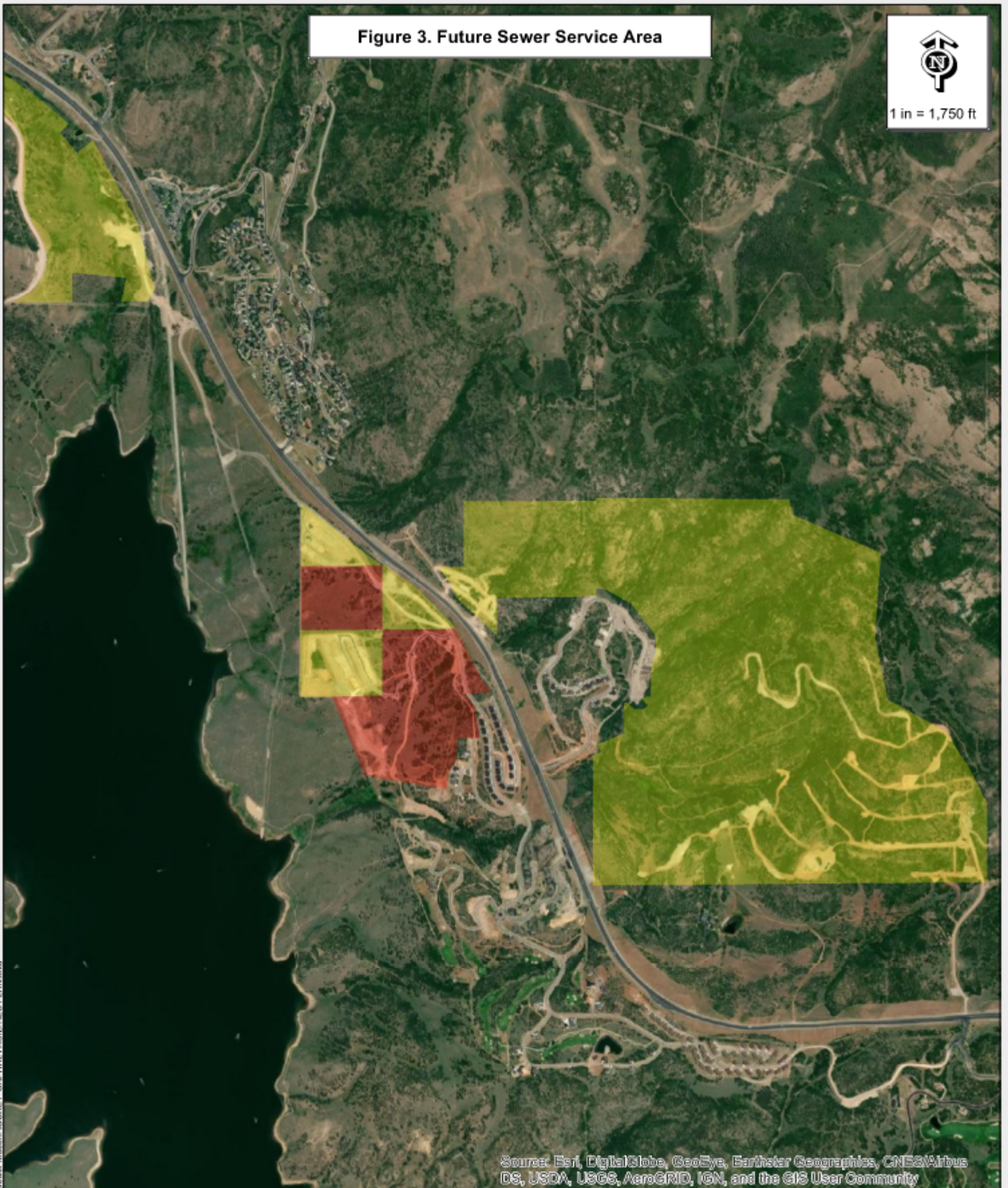
Future connections to the system are anticipated to come from new development and will require the system to expand. Figure 3 indicates the areas of town that are expected to experience future growth based on proposed developments. It is estimated that the system is currently serving approximately 20% of the potential maximum number of connections in this area. There are discussions of annexations underway, but those discussions are not included in this report.



Figure 3. Future Sewer Service Area



1 in = 1,750 ft



Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community

Legend

- Discussions Underway
- Under Construction

TOWN OF HIDEOUT
SEWER SYSTEM
DATE: 6/30/2020



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EXISTING SEWER SYSTEM

As the population in the Town has increased, the system has been upgraded and expanded to accommodate increased demands. The oldest segments of the sewer system were installed around 2008 when Hideout became incorporated. However, most of the sewer system is relatively new and has been placed with new development. Replacing pipes due to deteriorated conditions is not anticipated at this time.

Survey data, previously established GIS information, and plan sets were used to set up the SewerGEMS model. The scenarios in the model include an existing scenario, a future scenario, and several buildout scenarios to help determine system improvements and their effects on the system.

PUMPING

There are several small house-specific pumps in the Rustler development that push sewage to the main line. These pumps were not modeled in SewerGEMS, but the flows coming from the homes were applied at the beginning of the Rustler gravity system. Most of the sewer system in the Town is gravity fed, but there are some sections of pressurized pipes.

There are 3 lift stations in the Town, as previously mentioned. The ID tags on the pumps were used to obtain pump curves for model inputs (see Section A for pump curves). The pumps at Deer Waters Phase I Lift Station have a flow rate of 150 GPM and a head of 102 ft. The Vantage Lane pumps have a flow rate of 400 GPM and a head of 97 ft. The Dead Man's Gulch pumps have a flow rate of 355 GPM and a head of 150 ft. Field-measured flow rates suggest the Dead Man's Gulch pump pushes between 340 and 375 GPM even though the ID tag says 270 GPM.

TREATMENT

Wastewater treatment does not occur in the Town. However, there are wet wells at the lift stations that temporarily store wastewater and may provide some biological treatment.

COLLECTION SYSTEM

The collection system consists of approximately 12 miles of 8-inch to 12-inch diameter lines constructed of PVC and HDPE, and approximately 3 miles of 2-inch to 6-inch pressurized pipes constructed of HDPE. These sewer lines collect wastewater from subdivisions within the Town of Hideout. The collection system is shown in Figure 4.



Figure 4. Existing Sewer Service System



1 in = 1,750 ft

The JSSD sewer main is not part of the Hideout sewer system.

Golden Eagle is not currently built.

Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community

Legend

- Sewer Manhole
- Existing
- ★ Lift Station

**TOWN OF HIDEOUT
SEWER SYSTEM**

DATE: 8/11/2020



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MODELING

The Town of Hideout's existing sewer system was analyzed using SewerGEMs, version 10.02.03.03. As previously discussed, a Peak Month Average Day Sewer Production of 0.24 GPM/ERU was used in the model with a Peak Hour Sewer Production Factor of 2.5. The average day production was used to analyze the lift stations, while the peak hour production was used to analyze the capacity of the collection system.

In the existing scenario, there are only 14 ERUs going to the Vantage Lane Lift Station. Once Shoreline and Lakeview Estates are fully developed, there will be approximately 217 ERUs going to the Vantage Lane Lift Station. The pump located in the Vantage Lane Lift Station can operate at its capacity in both the future and existing scenarios, with a velocity of 6.6 fps going through the 4-inch pressure main. According to the JSSD Water and Sewer Master Plan, a velocity larger than 7 fps constitutes a deficiently sized pipe. This force main flows south from Shoreline Phase 2 to the Dead Man's Gulch Lift Station. Once the flows reach Dead Man's Gulch, the lift station pumps flow north to the JSSD Lift Station near the Deer Springs development.

The Deer Waters Phase I Lift Station serves 9 ERUs in the existing scenario and will serve approximately 108 ERUs once Deer Waters is fully developed. The pressure main leaving this lift station is a 4-inch diameter pipe with a velocity of 4.8 fps in both the existing and future scenarios. There are currently plans of abandoning or removing this lift station in the future and directing flows elsewhere. The Deer Waters Phase I Lift Station is at a higher elevation than the JSSD Lift station based on survey data. This lift station is not needed when waste can be gravity fed.

The Dead Man's Gulch Lift Station takes wastewater from Golden Eagle, Soaring Hawk, Shoreline Phases 1 & 2, Silver Sky, and everything south of those subdivisions. In the existing scenario, Dead Man's Gulch serves 185 ERUs and has 314 GPM coming into the lift station. In the future scenario, assuming the subdivisions are fully built out and flows continue to go to Dead Man's Gulch Lift Station, the lift station would be accepting 421 GPM from approximately 929 ERUs. The pressure main leaving the lift station can only handle 458 GPM, so the lift station is close to its capacity.

In the buildout scenarios, the analysis indicated that the pipes on the south end of Silver Sky are twice as full as all the remaining pipes in the sewer system. This is a result of pipe slopes being mild and then suddenly transitioning to steep. It is likely that waste would sit in the flatter pipes, and when it finally gets pushed down the steeper pipe, the system would be overwhelmed in this area. This location is shown in Figure 5.

Typically, pipe capacity is checked at 75% to determine if pipes are undersized. In this situation, the pipes aren't undersized, but the pipe slopes are causing waste to sit in the pipes.





Figure 5. Pipes are Overly Full in Silver Sky

Initially, it was decided that 70% would be used to check pipe capacity to account for any differences in pipe slopes between the model and what is built. Most subdivisions had plan and profile sheets available, though not all these subdivisions are currently built. Also, some sections of pipe did not have profiles available. As the model was refined, it became apparent that the pipes on the south end of Silver Sky are significantly more full than the rest of the system.

Additional ERUs were added to the buildout scenarios to reflect ongoing development discussions. See Section B of the Appendix for these locations and ERUs associated with each parcel.

RECOMMENDED SEWER SYSTEM IMPROVEMENTS AND UPGRADES

There are points of constriction at the Dead Man's Gulch Lift Station as well as overly full pipes in Silver Sky. Options to correct existing deficiencies and prevent future deficiencies are discussed below. Resolving existing deficiencies will enable the sewer system to handle buildout conditions.

COLLECTION SYSTEM

As previously described, the sewer pipes at the south end of Silver Sky are twice as full as the rest of the system during the buildout conditions. It is recommended the Town connect Soaring Hawk and Golden Eagle to the JSSD sewer system in Highway 248, reducing the amount of waste that reaches Silver sky. This connection will prevent the system from being overwhelmed.

CAPACITY

If no changes are made to the sewer collection system, the pump located at Dead Man's Gulch Lift Station needs to be replaced with a pump that can push 420 GPM to handle buildout flow rates. Also, the overflow pond on the north side of the lift station is not ideal. Directing flows elsewhere in the system will prevent the pump and pressure main from being overwhelmed.

LIFT STATIONS

If wastewater from Deer Waters and Lakeview Estates were gravity fed to the Vantage Lane Lift Station, an average flow rate of 78 GPM would reach the Vantage Lane Lift Station after buildout, and the pump can push around 400 GPM according to the ID Tag. However, the pump can only handle 97 ft of head. The pump needs to be able to handle approximately 160 ft of head for Vantage Lane to be able to pump flows up to the JSSD Lift Station.

The flow rate reaching Vantage Lane Lift Station during peak hour demand would be 193 GPM. In addition, the Shoreline Phase 2 sewer system under Vantage Lane has capacity to accept the buildout flow rates from Deer Waters and Lakeview Estates. It is recommended that the Deer Waters Phase I Lift Station be removed and flows from Deer Waters and Lakeview Estates be gravity fed to the Vantage Lane Lift Station. A larger pump will need to be installed at the Vantage Lane Lift Station to get waste to the JSSD Lift Station. It is also recommended a 4" pressure main be installed between the Vantage Lane Lift Station and the 4" pressure main the Deer Waters Phase I Lift Station is currently using.

Redirecting Vantage Lane flows to the north would reduce the amount of wastewater reaching the Dead Man's Gulch Lift Station. In the existing conditions, the Vantage Lane Lift Station sends 250 GPM to the Dead Man's Gulch Lift Station, which is approximately 55% of the Dead Man's Gulch pump capacity. For buildout conditions, if the Vantage Lane Lift Station sends flows directly to the JSSD Lift Station, and if Golden Eagle and Soaring Hawk tie into the JSSD Sewer Main, the flow rate getting to Dead Man's Gulch would be approximately 169 GPM coming from 704 ERUs. This scenario includes the remaining Shoreline area, which will contribute approximately 574 ERUs to this lift station. These conditions would not require the pump to have a higher capacity and would not require additional storage for wastewater.



CONSTRUCTION PRIORITIZATION

The improvements and upgrades discussed in the previous sections describe individual projects that will need to be completed within the next 15-20 years to maintain and upgrade the town's sewer system. Ideally, the town would design and construct solutions for the 3 deficiencies at once to maximize the benefits to the citizens as soon as possible. However, funding and logistical constraints will likely require these projects to be constructed in phases as funds become available. The purpose of this section is to identify the optimum construction order to provide the maximum benefits to the existing customer base as soon as practical. The need and urgency of the projects were evaluated and sorted qualitatively using the following criteria:

- 1) Existing probability of failure of sewer system component(s)
- 2) The cost / time necessary to repair the existing component(s)
- 3) Anticipated growth areas

Through this evaluation it was determined that recommendations to improve the existing system were the highest priority to prevent potentially overwhelming the sewer system. The prioritized list of recommended projects is presented in Table 2. ***It is recommended that project 1 be completed within the next three to five years to prevent overwhelming the sewer system.***

Table 2. Project Prioritization

Priority	Location	Justification
1*	Silver Sky	Prevent overwhelming the system in Silver Sky
2	Dead Man's Gulch Lift Station	Reduce the amount of waste reaching this lift station. This deficiency will become more apparent as development continues and more waste is sent here.
3	Deer Waters Phase I Lift Station	Remove or abandon lift station

* Projects are required within the next 3 to 5 years



OPINION OF PROBABLE COST

The costs for the proposed projects are presented in the following sections. There are many methods and materials available to contractors when it comes to backfilling, compaction, and visual aesthetics of roadways, all of which affect cost. The more flexibility the contractors have when these projects are being bid out, the more cost savings options the contractor can utilize.

UNIT COST JUSTIFICATION

Construction costs for the recommended projects are shown in Table 3. The costs listed below are the base costs used for the analysis, however, some of the costs will vary with the different project options. The unit costs are based on recent bids for similar projects and engineering judgment, and are estimates only. Market values can fluctuate over time and cause these estimates to be outdated by the time construction occurs.

Table 3. Conceptual Unit Cost Summary

Item	Unit	Cost Per Unit
Mobilization and Demobilization	Lump	10% of Total Cost
Traffic Control	Days	\$ 240.00
Remove Existing Pipe	LF	\$ 6.00
Remove Manhole	Each	\$ 1,200.00
Remove Existing Surface Materials	LF	\$ 11.76
Install 8" Sanitary Sewer Pipe	LF	\$ 53.00
Install 6" Pressurized Sanitary Sewer Pipe	LF	\$ 104.00
Install 4" Pressurized Sanitary Sewer Pipe	LF	\$ 91.00
Install 4-Foot Diameter Manhole	Each	\$ 4,320.00
Install 5-Foot Diameter Manhole	Each	\$ 5,400.00
Reconnect Service Laterals	Each	\$ 2,100.00
Connect to Existing System	Each	\$ 3,920.00
Roadway Patching	SY	\$ 42.00
Landscaping and surface Restoration	SY	\$ 1.80

In addition to the estimated construction cost, design and administrative costs have been added to the base construction cost as shown below:

Engineering and Survey	8%
Construction management	3%
Material Testing	2%
City management	1%
Legal	1%
Contingency	15%
Total	30%

Table 4 provides estimated project costs for the recommended actions to correct deficiencies. Costs are based on 2021 dollars. For more details on the estimated project costs, see Section D of the Appendix. For more details on considered system improvements, see Section C of the Appendix.



Table 4. Estimated Project Cost Summary

Location	Recommended action	Cost per LF of Pipe
Silver Sky	Tie Soaring Hawk and Golden Eagle into the JSSD sewer main on HWY 248	\$ 488
Dead Man's Gulch	Direct Vantage Lane Lift Station waste directly to the JSSD Lift Station through a new 6-inch line	\$ 218
Deer Waters	Take flows south to the Vantage Lane Lift Station	\$ 124

FUNDING ALTERNATIVES

Acquiring sufficient funds to construct all of the recommended construction projects is a considerable task for a community the size of Hideout. The town does not presently have the required funds to construct these projects in a reasonable timeframe. In order to complete the necessary projects in the recommended timeframe, a combination of increased user rates, altered rate structure and impact fees, along with government grants and low interest loans will be required.

To mitigate the financial impact on the community and to expedite the most critical projects, a combination of government grants and low-interest or interest-free loans is recommended to complete the projects in a more timely fashion. One funding source that is available to the Town is the USDA Rural Development Water & Waste Disposal Loan & Grant Program. They provide long term, low interest loans to rural towns with populations of 10,000 or less, and provide grants if funds are available.

CAPITAL FACILITY FUNDING (UPGRADES)

The most common source of funding for capital facilities projects that will be required to support future growth is through the collection of “impact fees.” An impact fee is defined as:

“A one-time charge on new development for the purpose of raising revenue for new or expanded public facilities necessitated by that development.”

Impact fees can be applied in any logical manner that provides a fair and equitable fee system. One method to implement an impact fee would be to set a single fee for all new connections regardless of size or intended use. A more common method is to develop a fee schedule that factors in the usage of each connection. This method allows the town to charge more to users whom intend to dispose of a larger volume of waste. This second method is often calculated using ERUs. This method determines what the “typical” residential unit (household) contributes to the system.

In the case of Hideout’s sewer system, the average household is currently served through a 1 ½ to 2-inch lateral connection. It is anticipated that the majority of future connections will be 1 ½ to 2-inch connections.



SUMMARY

Evaluation of the overall condition of the existing Hideout Sewer System was completed to locate existing and future deficiencies, and plan for additional connections. Two areas were identified as being deficient in some manner: Silver Sky and Dead Man's Gulch Lift Station. Once improvements are made to these areas, the existing sewer system will be a solid foundation to expand upon as the town develops. The recommended improvements will restore existing system deficiencies and accommodate future growth within the town.



RESOURCES

1. Jordanelle Special Service District Water and Sewer Master Plan, Impact Fee Facilities Plan, Impact Fee Analysis, and Rate Study from June 2015
2. KSM KRT K 80-251 Pump Curve at 3500 rpm
3. Barnes Series 4SHVB Performance Curve
4. Smith & Loveless Pump Curve for 4B2D*1
5. My City Inspect for Hideout, UT
6. Kent Cuillard – Town of Hideout Public Works Director
7. Town of Hideout Plans and Plats for Developments



APPENDIX

- A. Pump Curves
- B. Additional ERU Locations for Buildout Conditions
- C. Considered System Improvements
- D. Estimated Project Costs
- E. SewerGEMs Report



A. PUMP CURVES



Series 4SHVB

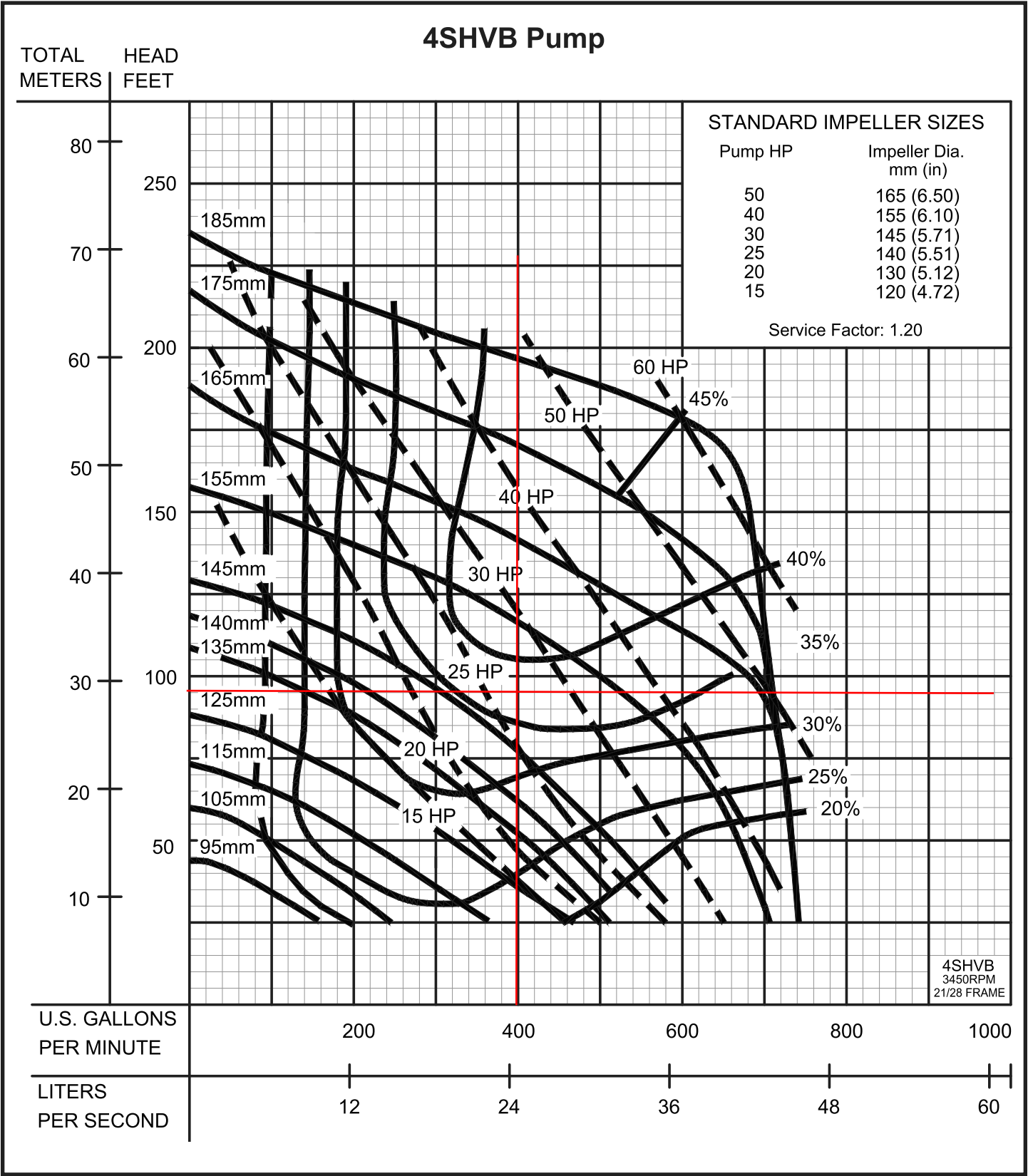
Vantage Lane Pump Curve

BARNES®

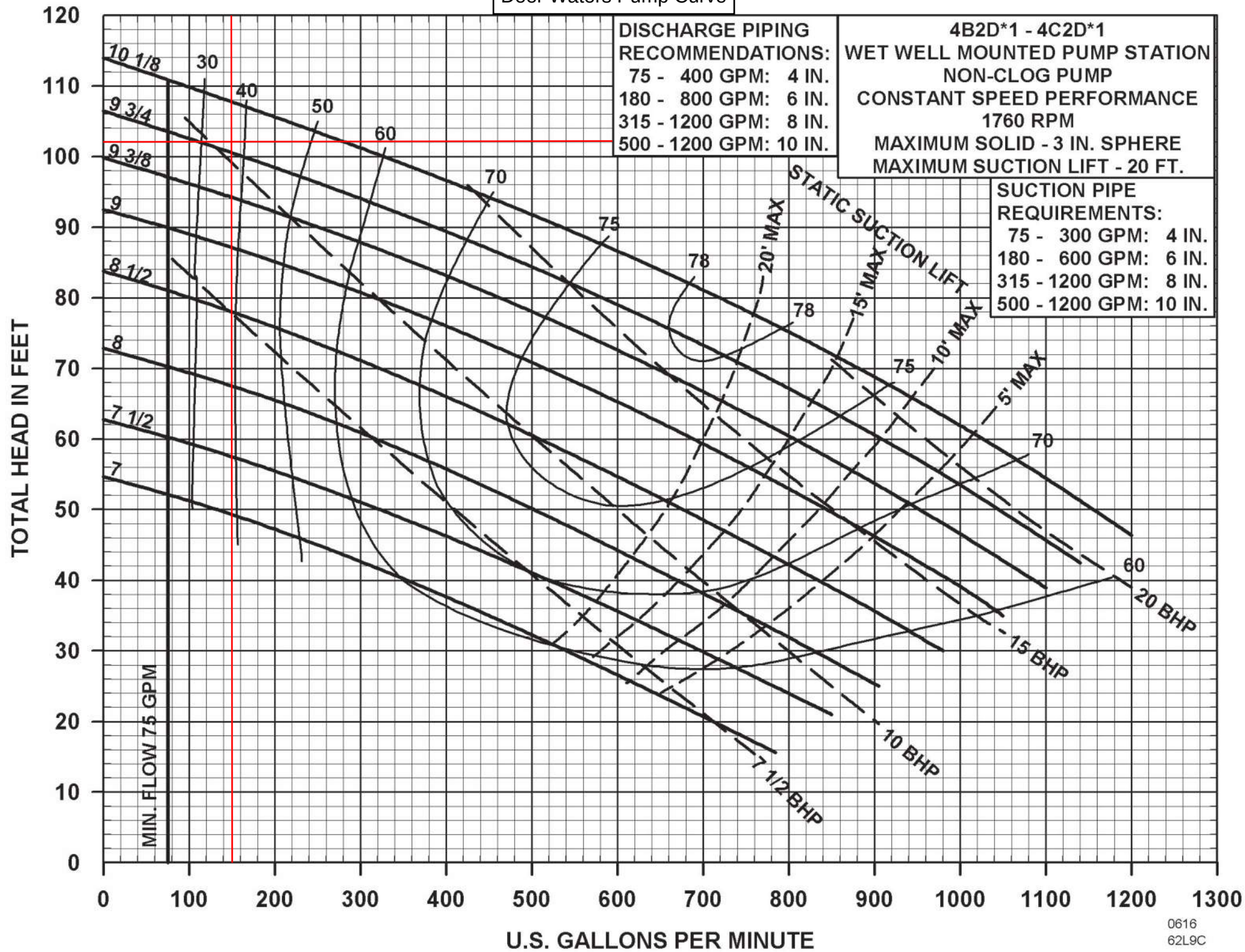
Performance Curve
15 - 50HP, 3450RPM, 60Hz, 21 & 28 Frame

www.cranepumps.com

Solids Handling Submersible Pumps



Deer Waters Pump Curve



Dead Man's Gulch Pump Curve

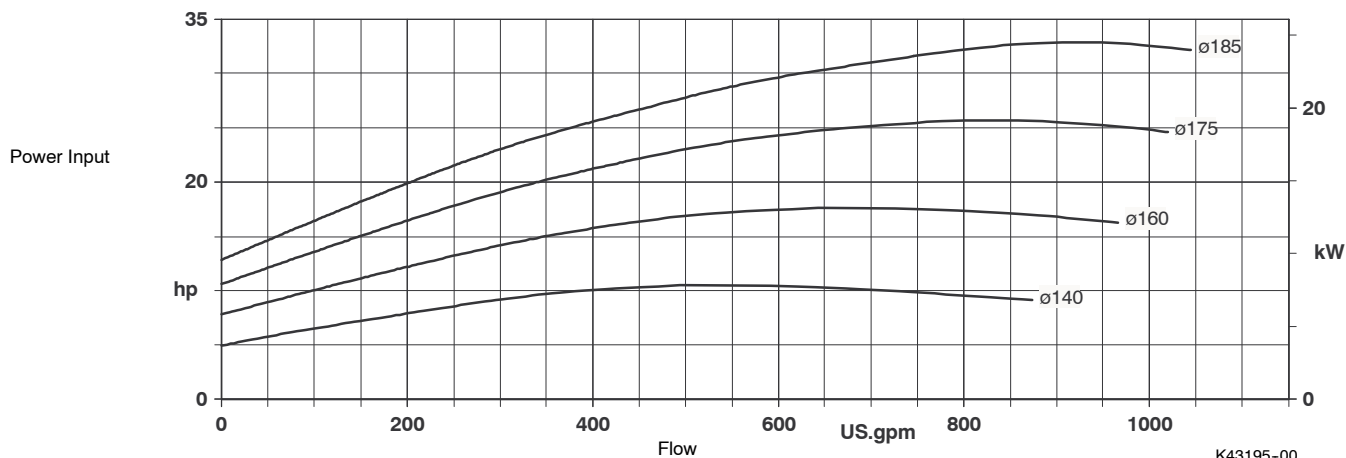
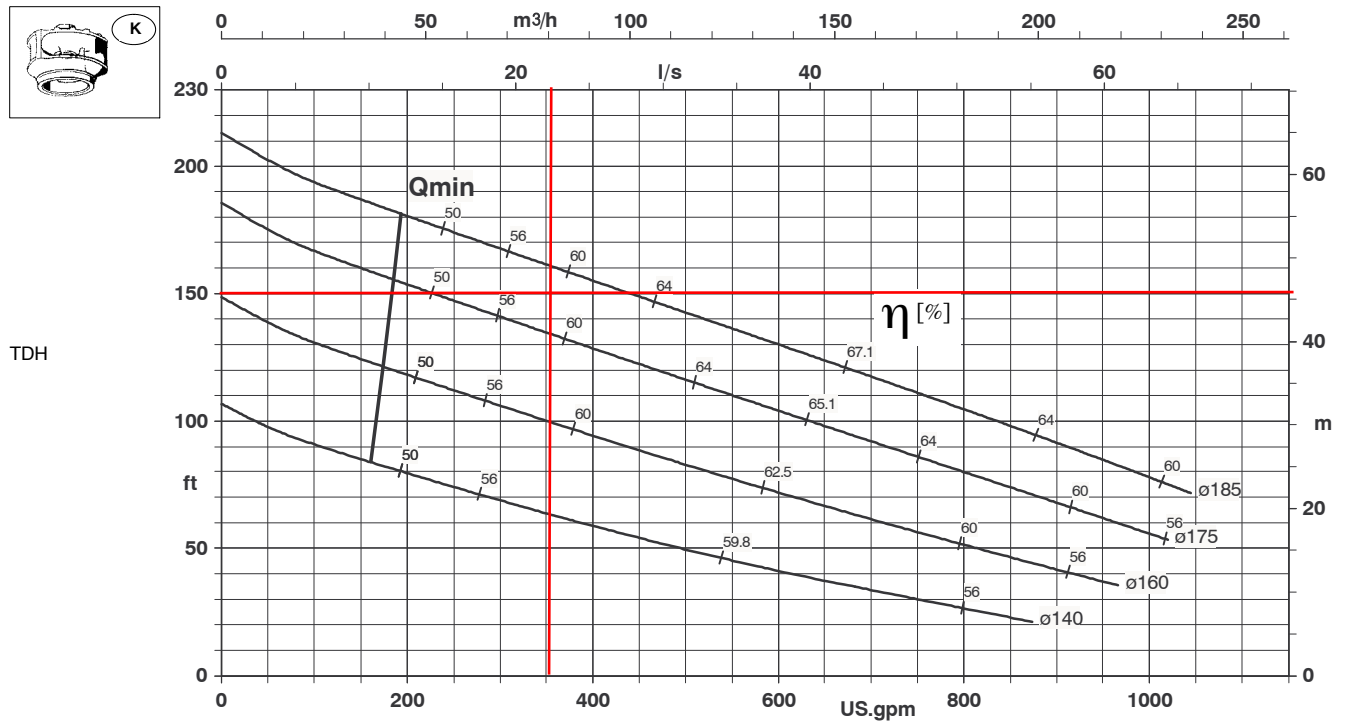
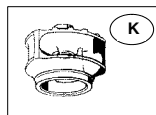


KRT

KRT K 80-251

3500 rpm

3 inch



Free passage

1 1/8" (33 mm)

K43195-00

MOTOR RATING Material				MAX. LIQUID TEMP.		MOTOR CODE
G, G1, GH, H	C1, C2	Hp	kW	°F	°C	
10	7.5	10	7.5	140	60	122W 122Z *)
15	11.2	15	11.2	104	40	122U 122X *)
20	14.9	20	14.9	140	60	172W 172Z *)
23	17.2	22	16.4	104	40	172U 172X *)

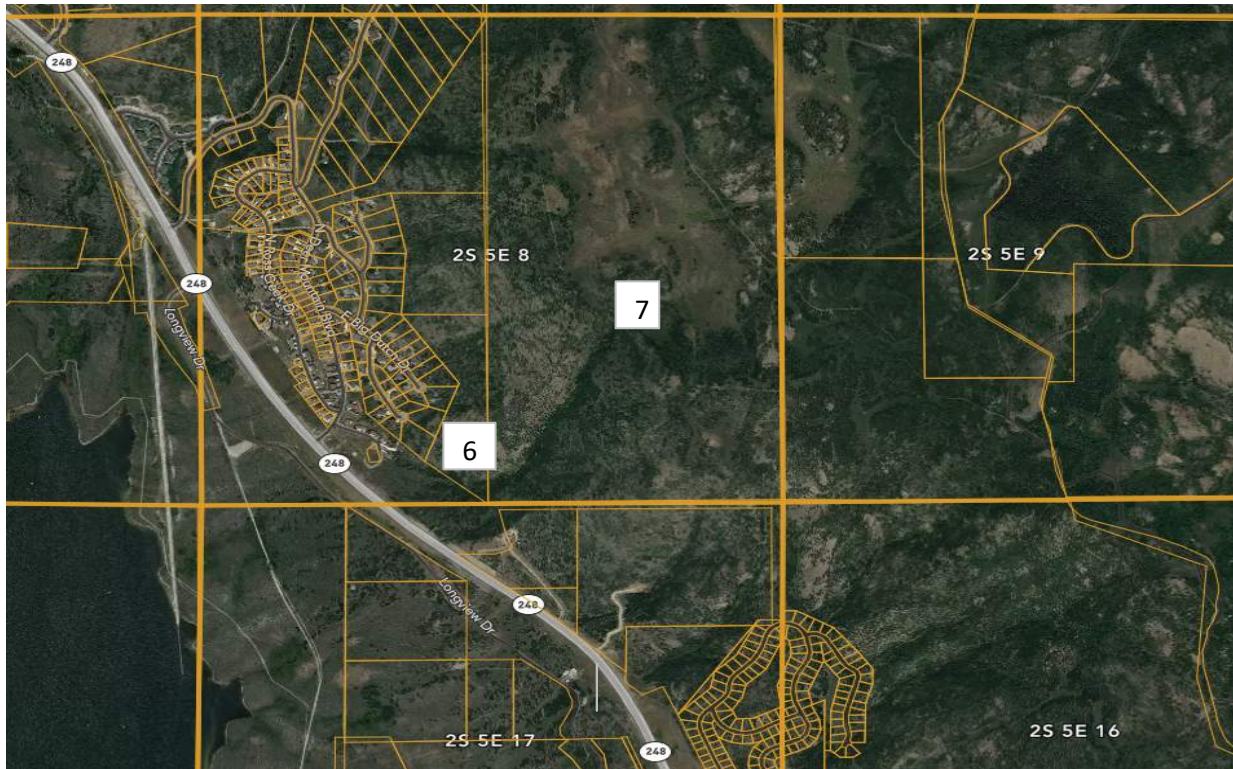
MOTOR RATING Material				MAX. LIQUID TEMP.		MOTOR CODE
G, G1, GH, H	C1, C2	Hp	kW	°F	°C	
25	18.7	24	17.9	140	60	252W 252Z *)
30	22.4	-	-	104	40	222U 222X *)
34	25.3	30	22.4	-	-	252U 252X *)

*) FM/CSA = Explosionproof to Class I, Division 1, Groups C & D

B. ADDITIONAL ERU LOCATIONS FOR BUILDOUT CONDITIONS



Additional ERUs According to Discussions



ID	Total Acreage	Assumed Acreage per ERU	Total ERUs	Sewer Demand
1	5.5	0.0785	70	16.82
2	43	0.3	143	34.40
3	21.4	0.2	107	25.68
4	48.6	0.2	243	58.32
5	15.8	0.1	158	37.92
6	20.6	0.2	103	24.72
7	333	0.2	1665	399.60

C. CONSIDERED SYSTEM IMPROVEMENTS

Table 5. Considered Sewer Main Updates for Silver Sky

Option	Recommended Action	Diameter (in)	Length (ft)
A.1	Increase the slope in the existing pipes by replacing the existing lines	8	350
A.2	Increase the slope in the existing pipes by laying new pipes outside of the roadway and abandoning the existing lines	8	630
A.3	Lay a new 8-inch sewer line south of the existing homes to route waste around the deficiency	8	750
A.4	Tie Soaring Hawk and Golden Eagle into the JSSD sewer main on HWY 248	-	-

Table 6. Considered Lift Station Updates for Deer Waters

Option	Recommended Action	Diameter (in)	Length (ft)
B.1	Replace the 4-inch pressure main with a 6-inch pressure main	6	5,000
B.2	Lay a 6-inch pressure main parallel to the 4-inch pressure main	6	5,000
B.3	Take some/all flows south to a Lakeview Estates Lift Station	6	900
B.4	Take some/all flows south to the Vantage Lane Lift Station	6	1,100
B.5	Leave the 4-inch main, assuming the Lift Station will be abandoned in the next 3-5 years	N/A	N/A

Table 7. Considered Lift Station Updates for Dead Man's Gulch

Option	Recommended Action	Diameter (in)	Length (ft)
C.1	Direct Vantage Lane Lift Station waste directly to the JSSD Lift Station through a new 6-inch line	6	7,100
C.2	Direct Vantage Lane Lift Station waste directly to the JSSD Lift Station by connecting into the Dead Man's Gulch pressure main just south of Shoreline Phase 2 with a 6-inch pipe	6	100
C.3	Install an 8-inch line parallel to the JSSD Sewer Main along HWY 248 AND redirect Vantage Lane Lift Station flows (see options C.1 and C.2)	8	8,636
C.4	Direct Vantage Lane Lift Station waste directly to the JSSD Lift Station through a new 6-inch line	6	2,140
C.5	Redirect Soaring Hawk and Golden Eagle flows into the JSSD sewer main AND redirect Vantage Lane Lift Station flows (see options A.4, C.1 and C.2)	-	-



Option: A.1 - Replace existing lines in Silver Sky



Option: A.2 - Lay new 8-inch lines in Silver Sky



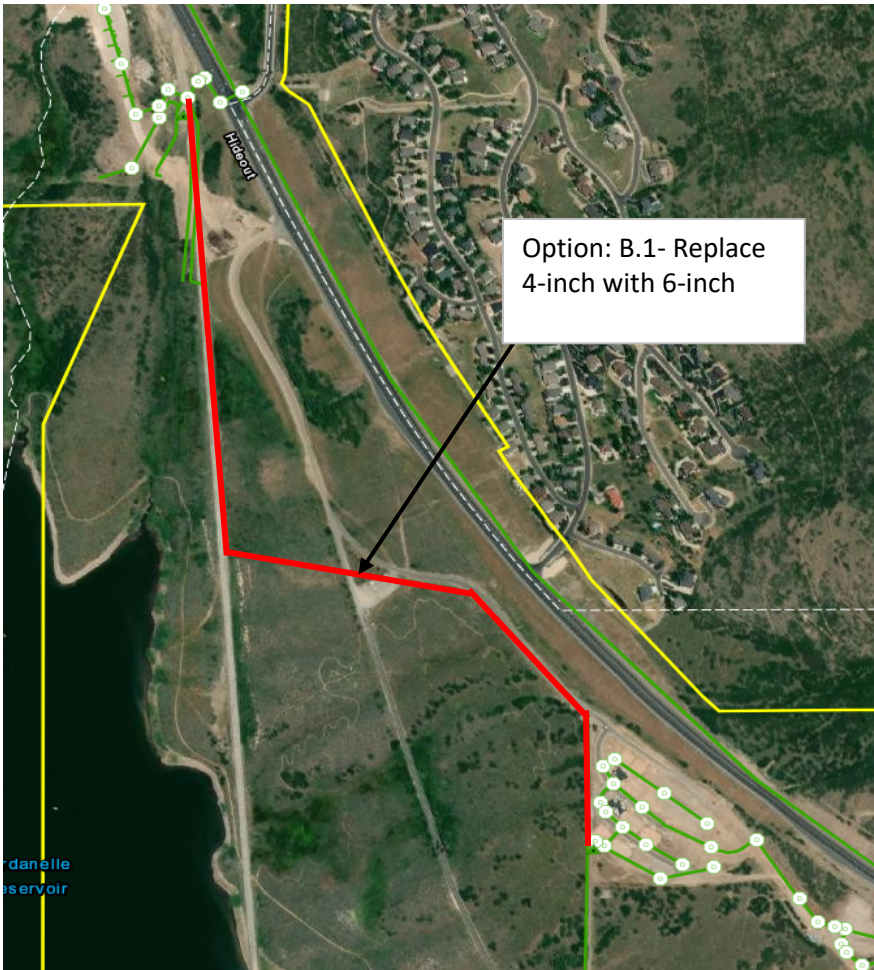
Option: A.3 - Lay new 8-inch lines south of Silver Sky



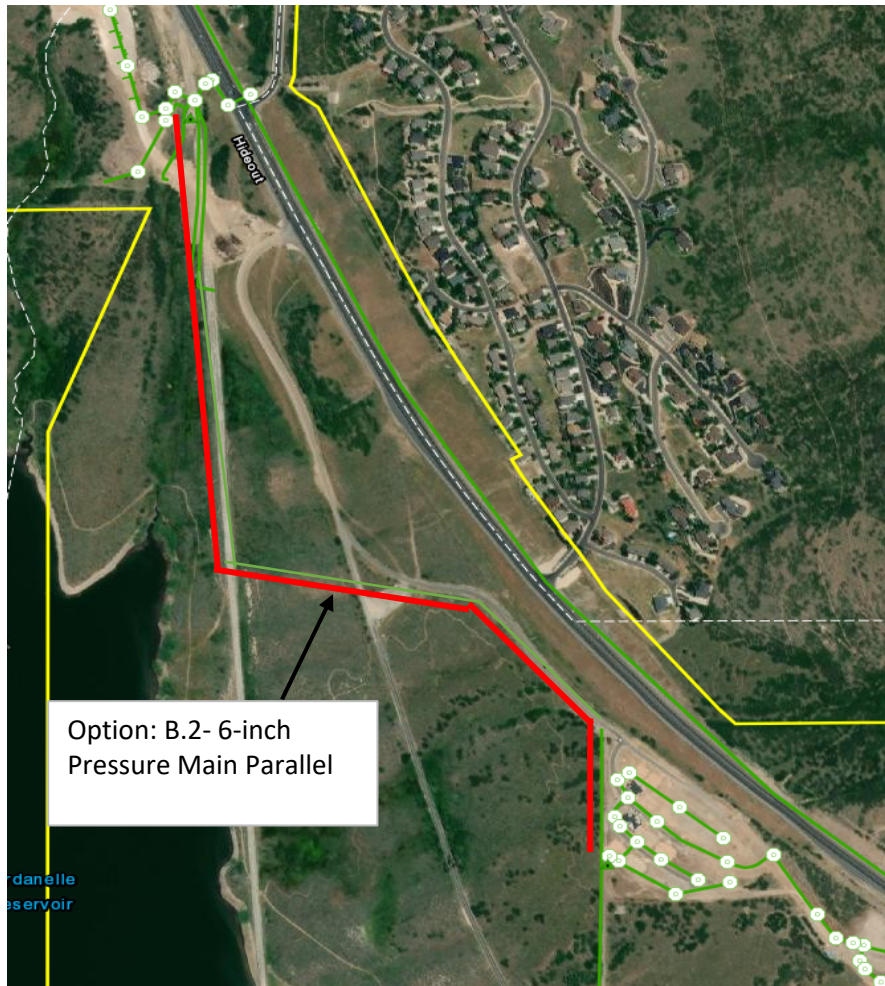
Option: A.4 - Tie into JSSD Sewer System



Option: B.1 - Replace 4-inch with 6-inch Pressure Main



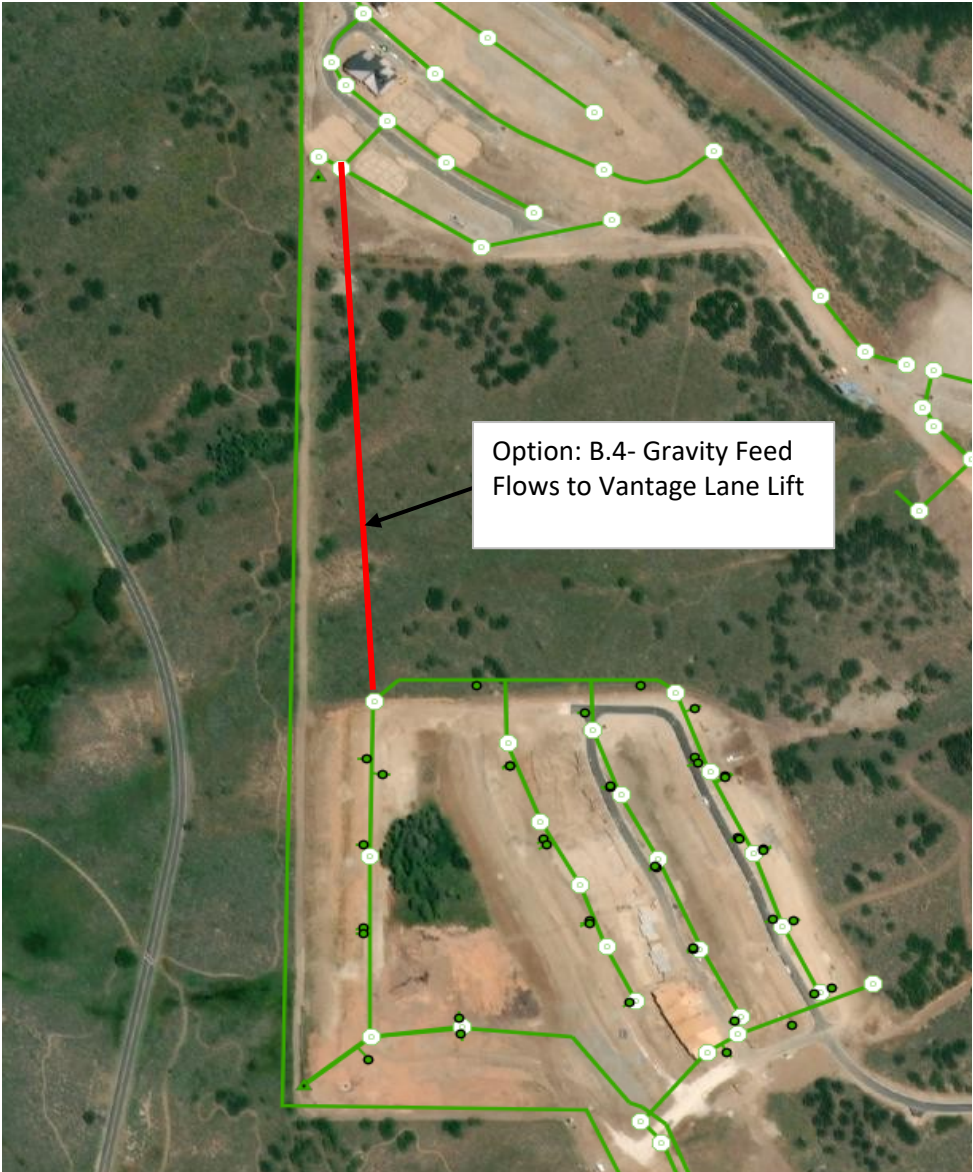
Option: B.2 - 6-inch Pressure Main Parallel to 4-inch Main



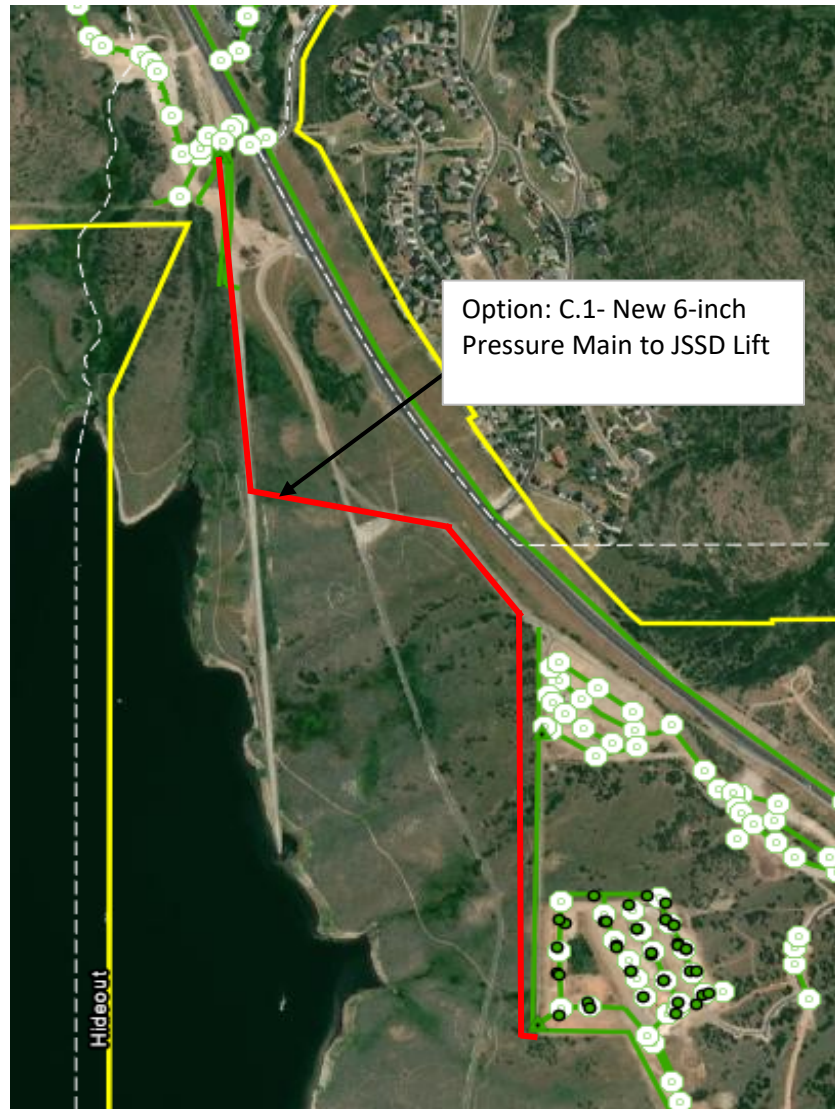
Option: B.3 - Gravity Feed Flows to Lakeview Estates Lift Station



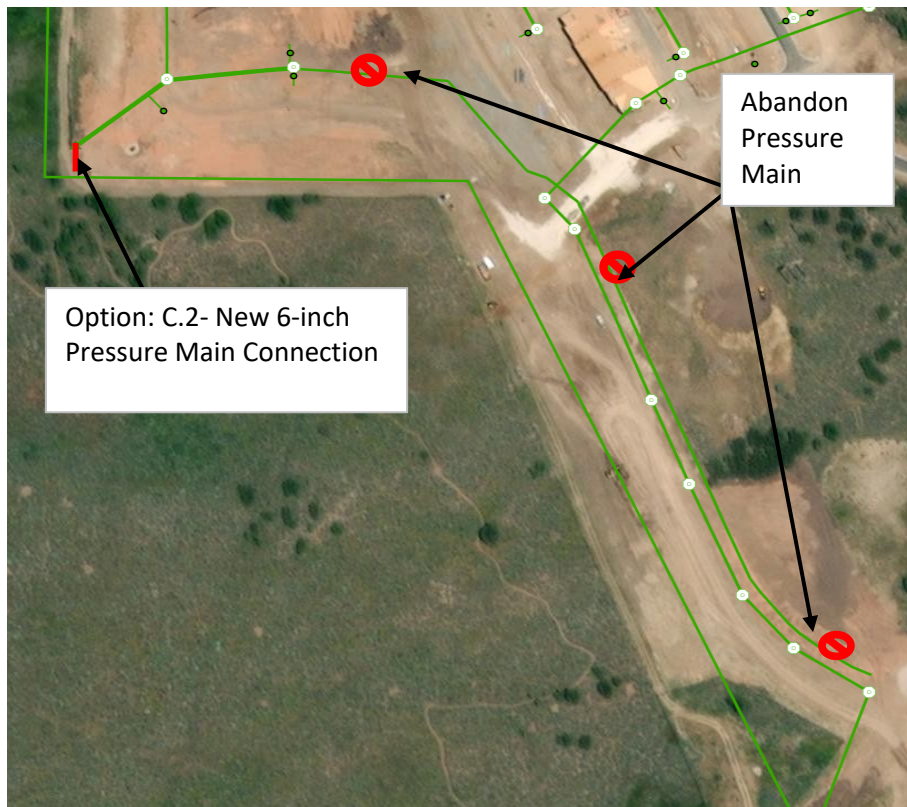
Option: B.4 - Gravity Feed Flows to Vantage Lane Lift Station



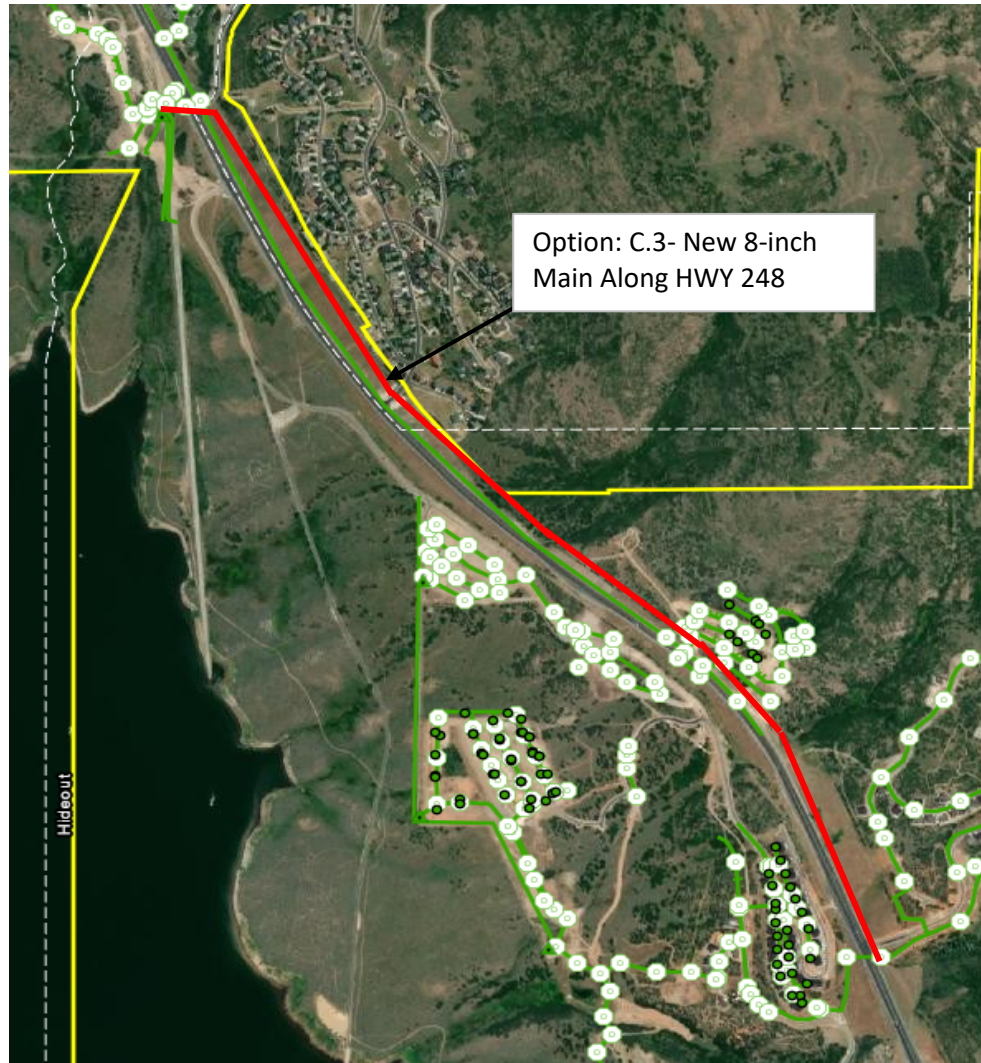
Option: C.1 - New 6-inch Pressure Main to JSSD Lift Station



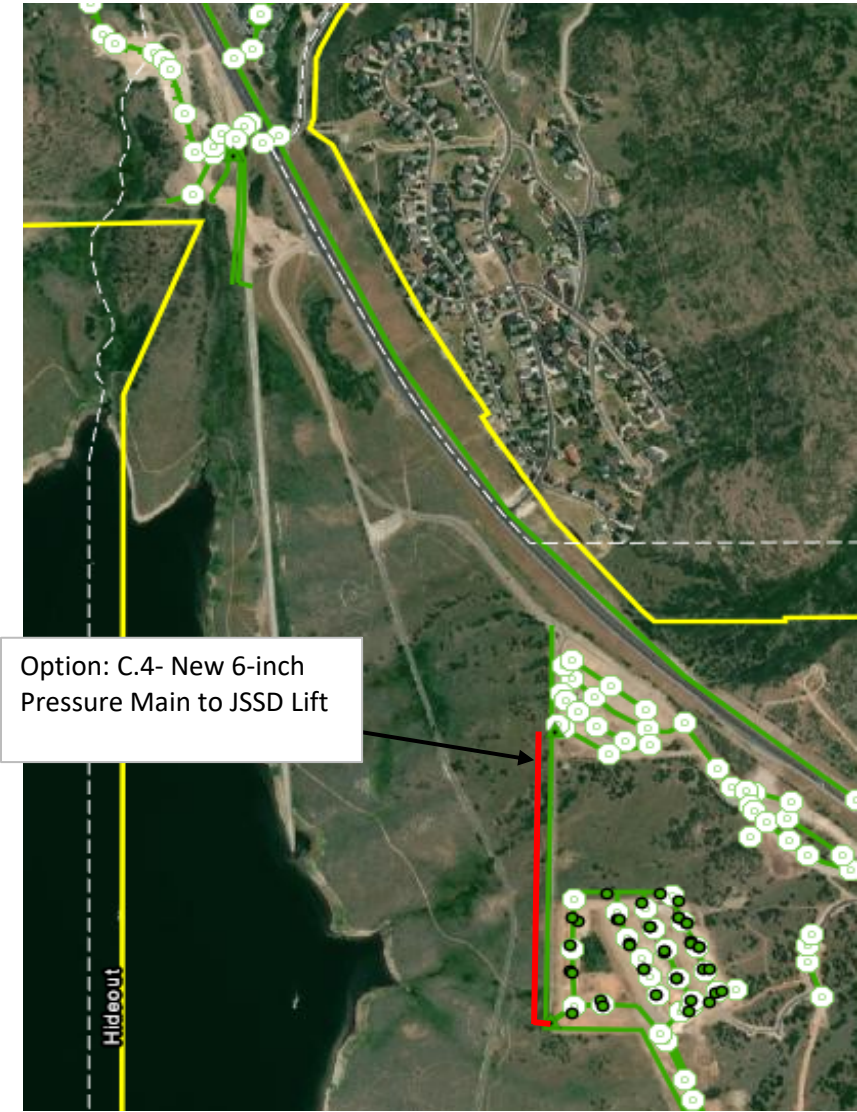
Option: C.2 - New 6-inch Pressure Main Connection



Option: C.3 - New 8-inch main along HWY 248



Option: C.4 - New 6-inch Pressure Main to JSSD Lift Station



D. ESTIMATED PROJECT COSTS

Option: A.1 - Replace existing lines in Silver Sky				
ITEM	Quantity	UNIT	UNIT COST	Total Cost
Mobilization and Demobilization	1	Lump	10%	\$ 12,567.26
Remove Existing Pipe	350	LF	\$ 6.00	\$ 2,100.00
Remove Manhole	3	Each	\$ 1,200.00	\$ 3,600.00
Remove existing surface materials		LF	\$ 11.76	\$ -
Install 8" Sanitary Sewer Pipe	350	LF	\$ 84.80	\$ 29,680.00
Install 6" Pressurized Sanitary Sewer Pipe		LF	\$ 104.00	\$ -
Install 4-Foot Diameter Manhole	4	Each	\$ 4,320.00	\$ 17,280.00
Install 5-Foot Diameter Manhole		Each	\$ 5,400.00	\$ -
Reconnect Service Laterals	5	Each	\$ 2,100.00	\$ 10,500.00
Connect to Existing System	2	Each	\$ 3,920.00	\$ 7,840.00
Roadway Patching	312	SY	\$ 42.00	\$ 13,104.00
Landscaping and surface Restoration		SY	\$ 1.80	\$ -
				\$ 96,671.26

Additional Costs			
ITEM	PERCENTAGE		Total Cost
Engineering and Survey	8%		\$ 7,733.70
Construction management	3%		\$ 2,900.14
Material Testing	2%		\$ 1,933.43
City management	1%		\$ 966.71
Legal	1%		\$ 966.71
Contingency	15%		\$ 14,500.69
Total			\$ 29,001.38

Total Project Cost	\$ 125,672.64
Cost per LF of Pipe	\$ 359.06

Option: A.2 - Lay new 8-inch lines in Silver Sky				
ITEM	Quantity	UNIT	UNIT COST	Total Cost
Mobilization and Demobilization	1	Lump	10%	\$ 12,826.69
Remove Existing Pipe		LF	\$ 6.00	\$ -
Remove Manhole		Each	\$ 1,200.00	\$ -
Remove existing surface materials	627	LF	\$ 11.76	\$ 7,373.52
Install 8" Sanitary Sewer Pipe	627	LF	\$ 84.80	\$ 53,169.60
Install 6" Pressurized Sanitary Sewer Pipe		LF	\$ 104.00	\$ -
Install 4-Foot Diameter Manhole	1	Each	\$ 4,320.00	\$ 4,320.00
Install 5-Foot Diameter Manhole		Each	\$ 5,400.00	\$ -
Reconnect Service Laterals	5	Each	\$ 2,100.00	\$ 10,500.00
Connect to Existing System	2	Each	\$ 3,920.00	\$ 7,840.00
Roadway Patching	18	SY	\$ 42.00	\$ 756.00
Landscaping and surface Restoration	1045	SY	\$ 1.80	\$ 1,881.00
				\$ 98,666.81

Additional Costs			
ITEM	PERCENTAGE	Total Cost	
Engineering and Survey	8%	\$	7,893.34
Construction management	3%	\$	2,960.00
Material Testing	2%	\$	1,973.34
City management	1%	\$	986.67
Legal	1%	\$	986.67
Contingency	15%	\$	14,800.02
Total		\$	29,600.04

Total Project Cost	\$ 128,266.85
Cost per LF of Pipe	\$ 204.57

Option: A.3 - Lay new 8-inch lines south of Silver Sky

ITEM	Quantity	UNIT	UNIT COST	Total Cost
Mobilization and Demobilization	1	Lump	10%	\$ 8,815.49
Remove Existing Pipe		LF	\$ 6.00	\$ -
Remove Manhole		Each	\$ 1,200.00	\$ -
Remove existing surface materials	750	LF	\$ 11.76	\$ 8,820.00
Install 8" Sanitary Sewer Pipe	750	LF	\$ 53.00	\$ 39,750.00
Install 6" Pressurized Sanitary Sewer Pipe		LF	\$ 104.00	\$ -
Install 4-Foot Diameter Manhole		Each	\$ 4,320.00	\$ -
Install 5-Foot Diameter Manhole		Each	\$ 5,400.00	\$ -
Reconnect Service Laterals		Each	\$ 2,100.00	\$ -
Connect to Existing System	2	Each	\$ 3,920.00	\$ 7,840.00
Roadway Patching	8	SY	\$ 42.00	\$ 336.00
Landscaping and surface Restoration	1250	SY	\$ 1.80	\$ 2,250.00
				\$ 67,811.49

Additional Costs

ITEM	PERCENTAGE	Total Cost
Engineering and Survey	8%	\$ 5,424.92
Construction management	3%	\$ 2,034.34
Material Testing	2%	\$ 1,356.23
City management	1%	\$ 678.11
Legal	1%	\$ 678.11
Contingency	15%	\$ 10,171.72
Total		\$ 20,343.45

Total Project Cost

\$ 88,154.94

Cost per LF of Pipe

\$ 117.54

Option: A.4 - Tie into JSSD Sewer System				
ITEM	Quantity	UNIT	UNIT COST	Total Cost
Mobilization and Demobilization	1	Lump	10%	\$ 5,368.88
Remove Existing Pipe	110	LF	\$ 6.00	\$ 660.00
Remove Manhole	1	Each	\$ 1,200.00	\$ 1,200.00
Remove existing surface materials	110	LF	\$ 11.76	\$ 1,293.60
Install 8" Sanitary Sewer Pipe	110	LF	\$ 84.80	\$ 9,328.00
Install 6" Pressurized Sanitary Sewer Pipe		LF	\$ 104.00	\$ -
Install 4-Foot Diameter Manhole		Each	\$ 4,320.00	\$ -
Install 5-Foot Diameter Manhole	2	Each	\$ 5,400.00	\$ 10,800.00
Reconnect Service Laterals		Each	\$ 2,100.00	\$ -
Connect to Existing System	3	Each	\$ 3,920.00	\$ 11,760.00
Roadway Patching	14	SY	\$ 42.00	\$ 588.00
Landscaping and surface Restoration	167	SY	\$ 1.80	\$ 300.60
				\$ 41,299.08

Additional Costs			
ITEM	PERCENTAGE	Total Cost	
Engineering and Survey	8%	\$	3,303.93
Construction management	3%	\$	1,238.97
Material Testing	2%	\$	825.98
City management	1%	\$	412.99
Legal	1%	\$	412.99
Contingency	15%	\$	6,194.86
Total		\$	12,389.72

Total Project Cost	\$ 53,688.80
Cost per LF of Pipe	\$ 488.08

*Pipe length is estimated, survey shots have not been taken at the time of this estimate.

Option: B.1 - Replace 4-inch with 6-inch Pressure Main				
ITEM	Quantity	UNIT	UNIT COST	Total Cost
Mobilization and Demobilization	1	Lump	10%	\$ 116,448.11
Remove Existing Pipe	5000	LF	\$ 6.00	\$ 30,000.00
Remove Manhole		Each	\$ 1,200.00	\$ -
Remove existing surface materials	5000	LF	\$ 11.76	\$ 58,800.00
Install 8" Sanitary Sewer Pipe		LF	\$ 53.00	\$ -
Install 6" Pressurized Sanitary Sewer Pipe	5000	LF	\$ 104.00	\$ 520,000.00
Install 4-Foot Diameter Manhole		Each	\$ 4,320.00	\$ -
Install 5-Foot Diameter Manhole		Each	\$ 5,400.00	\$ -
Reconnect Service Laterals		Each	\$ 2,100.00	\$ -
Connect to Existing System	2	Each	\$ 3,920.00	\$ 7,840.00
Roadway Patching	3823	SY	\$ 42.00	\$ 160,566.00
Landscaping and surface Restoration	1167	SY	\$ 1.80	\$ 2,100.60
				\$ 895,754.71

Additional Costs			
ITEM	PERCENTAGE	Total Cost	
Engineering and Survey	8%	\$	71,660.38
Construction management	3%	\$	26,872.64
Material Testing	2%	\$	17,915.09
City management	1%	\$	8,957.55
Legal	1%	\$	8,957.55
Contingency	15%	\$	134,363.21
Total		\$	268,726.41

Total Project Cost	\$ 1,164,481.12
Cost per LF of Pipe	\$ 232.90

Option: B.2 - 6-inch Pressure Main Parallel to 4-inch Main				
ITEM	Quantity	UNIT	UNIT COST	Total Cost
Mobilization and Demobilization	1	Lump	10%	\$ 111,965.35
Remove Existing Pipe		LF	\$ 6.00	\$ -
Remove Manhole		Each	\$ 1,200.00	\$ -
Remove existing surface materials	5000	LF	\$ 11.76	\$ 58,800.00
Install 8" Sanitary Sewer Pipe		LF	\$ 53.00	\$ -
Install 6" Pressurized Sanitary Sewer Pipe	5000	LF	\$ 104.00	\$ 520,000.00
Install 4-Foot Diameter Manhole		Each	\$ 4,320.00	\$ -
Install 5-Foot Diameter Manhole		Each	\$ 5,400.00	\$ -
Reconnect Service Laterals		Each	\$ 2,100.00	\$ -
Connect to Existing System	2	Each	\$ 3,920.00	\$ 7,840.00
Roadway Patching	3823	SY	\$ 42.00	\$ 160,566.00
Landscaping and surface Restoration	1167	SY	\$ 1.80	\$ 2,100.60
				\$ 861,271.95

Additional Costs			
ITEM	PERCENTAGE		Total Cost
Engineering and Survey	8%		\$ 68,901.76
Construction management	3%		\$ 25,838.16
Material Testing	2%		\$ 17,225.44
City management	1%		\$ 8,612.72
Legal	1%		\$ 8,612.72
Contingency	15%		\$ 129,190.79
Total			\$ 258,381.59

Total Project Cost	\$ 1,119,653.54
Cost per LF of Pipe	\$ 223.93

Option: B.3 - Gravity Feed Flows to Lakeview Estates Lift Station				
ITEM	Quantity	UNIT	UNIT COST	Total Cost
Mobilization and Demobilization	1	Lump	10%	\$ 10,410.46
Remove Existing Pipe		LF	\$ 5.00	\$ -
Remove Manhole		Each	\$ 1,000.00	\$ -
Remove existing surface materials	900	LF	\$ 9.80	\$ 8,820.00
Install 8" Sanitary Sewer Pipe	900	LF	\$ 50.00	\$ 45,000.00
Install 6" Pressurized Sanitary Sewer Pipe		LF	\$ 80.00	\$ -
Install 4-Foot Diameter Manhole	2	Each	\$ 4,000.00	\$ 8,000.00
Install 5-Foot Diameter Manhole		Each	\$ 5,000.00	\$ -
Reconnect Service Laterals		Each	\$ 1,500.00	\$ -
Connect to Existing System	2	Each	\$ 2,800.00	\$ 5,600.00
Roadway Patching		SY	\$ 35.00	\$ -
Landscaping and surface Restoration	1500	SY	\$ 1.50	\$ 2,250.00
				\$ 80,080.46

Additional Costs			
ITEM		PERCENTAGE	Total Cost
Engineering and Survey		8%	\$ 6,406.44
Construction management		3%	\$ 2,402.41
Material Testing		2%	\$ 1,601.61
City management		1%	\$ 800.80
Legal		1%	\$ 800.80
Contingency		15%	\$ 12,012.07
Total			\$ 24,024.14

Total Project Cost	\$ 104,104.60
Cost per LF of Pipe	\$ 115.67

*This option assumes a Lakeview Estates Lift station is already installed at the time of this project.

****At this time, Lakeview Estates Lift Station is not planned to be constructed.**

Option: B.4 - Gravity Feed Flows to Vantage Lane Lift Station				
ITEM	Quantity	UNIT	UNIT COST	Total Cost
Mobilization and Demobilization	1	Lump	10%	\$ 13,623.40
Remove Existing Pipe		LF	\$ 6.00	\$ -
Remove Manhole		Each	\$ 1,200.00	\$ -
Remove existing surface materials	1100	LF	\$ 11.76	\$ 12,936.00
Install 8" Sanitary Sewer Pipe	1100	LF	\$ 53.00	\$ 58,300.00
Install 6" Pressurized Sanitary Sewer Pipe		LF	\$ 104.00	\$ -
Install 4-Foot Diameter Manhole	2	Each	\$ 4,320.00	\$ 8,640.00
Install 5-Foot Diameter Manhole		Each	\$ 5,400.00	\$ -
Reconnect Service Laterals		Each	\$ 2,100.00	\$ -
Connect to Existing System	2	Each	\$ 3,920.00	\$ 7,840.00
Roadway Patching	18	SY	\$ 42.00	\$ 756.00
Landscaping and surface Restoration	1500	SY	\$ 1.80	\$ 2,700.00
				\$ 104,795.40

Additional Costs			
ITEM	PERCENTAGE		Total Cost
Engineering and Survey	8%		\$ 8,383.63
Construction management	3%		\$ 3,143.86
Material Testing	2%		\$ 2,095.91
City management	1%		\$ 1,047.95
Legal	1%		\$ 1,047.95
Contingency	15%		\$ 15,719.31
Total			\$ 31,438.62

Total Project Cost	\$ 136,234.02
Cost per LF of Pipe	\$ 123.85

*Project is planned to be completed with the construction of Lakeview Estates.

Option: C.1 - New 6-inch Pressure Main to JSSD Lift Station				
ITEM	Quantity	UNIT	UNIT COST	Total Cost
Mobilization and Demobilization	1	Lump	10%	\$ 132,252.44
Remove Existing Pipe		LF	\$ 6.00	\$ -
Remove Manhole		Each	\$ 1,200.00	\$ -
Remove existing surface materials	7100	LF	\$ 11.76	\$ 83,496.00
Install 8" Sanitary Sewer Pipe		LF	\$ 53.00	\$ -
Install 6" Pressurized Sanitary Sewer Pipe	7100	LF	\$ 104.00	\$ 738,400.00
Install 4-Foot Diameter Manhole		Each	\$ 4,320.00	\$ -
Install 5-Foot Diameter Manhole		Each	\$ 5,400.00	\$ -
Reconnect Service Laterals		Each	\$ 2,100.00	\$ -
Connect to Existing System	2	Each	\$ 3,920.00	\$ 7,840.00
Roadway Patching	889	SY	\$ 42.00	\$ 37,338.00
Landscaping and surface Restoration	10000	SY	\$ 1.80	\$ 18,000.00
				\$ 1,017,326.44

Additional Costs			
ITEM	PERCENTAGE	Total Cost	
Engineering and Survey	8%	\$	81,386.12
Construction management	3%	\$	30,519.79
Material Testing	2%	\$	20,346.53
City management	1%	\$	10,173.26
Legal	1%	\$	10,173.26
Contingency	15%	\$	152,598.97
Total		\$	305,197.93

Total Project Cost	\$ 1,322,524.37
Cost per LF of Pipe	\$ 186.27

Option: C.2 - New 6-inch Pressure Main Connection				
ITEM	Quantity	UNIT	UNIT COST	Total Cost
Mobilization and Demobilization	1	Lump	10%	\$ 2,946.16
Remove Existing Pipe		LF	\$ 6.00	\$ -
Remove Manhole		Each	\$ 1,200.00	\$ -
Remove existing surface materials	100	LF	\$ 11.76	\$ 1,176.00
Install 8" Sanitary Sewer Pipe		LF	\$ 53.00	\$ -
Install 6" Pressurized Sanitary Sewer Pipe	100	LF	\$ 104.00	\$ 10,400.00
Install 4-Foot Diameter Manhole		Each	\$ 4,320.00	\$ -
Install 5-Foot Diameter Manhole		Each	\$ 5,400.00	\$ -
Reconnect Service Laterals		Each	\$ 2,100.00	\$ -
Connect to Existing System	2	Each	\$ 3,920.00	\$ 7,840.00
Roadway Patching		SY	\$ 42.00	\$ -
Landscaping and surface Restoration	167	SY	\$ 1.80	\$ 300.60
				\$ 22,662.76

Additional Costs			
ITEM	PERCENTAGE		Total Cost
Engineering and Survey	8%		\$ 1,813.02
Construction management	3%		\$ 679.88
Material Testing	2%		\$ 453.26
City management	1%		\$ 226.63
Legal	1%		\$ 226.63
Contingency	15%		\$ 3,399.41
Total			\$ 6,798.83

Total Project Cost	\$ 29,461.59
Cost per LF of Pipe	\$ 294.62

*Project is planned to be completed with the construction of Lakeview Estates.

Option: C.3 - New 8-inch main along HWY 248				
ITEM	Quantity	UNIT	UNIT COST	Total Cost
Mobilization and Demobilization	1	Lump	10%	\$ 105,381.49
Remove Existing Pipe		LF	\$ 6.00	\$ -
Remove Manhole		Each	\$ 1,200.00	\$ -
Remove existing surface materials	8636	LF	\$ 11.76	\$ 101,559.36
Install 8" Sanitary Sewer Pipe	8636	LF	\$ 53.00	\$ 457,708.00
Install 6" Pressurized Sanitary Sewer Pipe		LF	\$ 104.00	\$ -
Install 4-Foot Diameter Manhole	22	Each	\$ 4,320.00	\$ 95,040.00
Install 5-Foot Diameter Manhole		Each	\$ 5,400.00	\$ -
Reconnect Service Laterals		Each	\$ 2,100.00	\$ -
Connect to Existing System	2	Each	\$ 3,920.00	\$ 7,840.00
Roadway Patching	445	SY	\$ 42.00	\$ 18,690.00
Landscaping and surface Restoration	13560	SY	\$ 1.80	\$ 24,408.00
				\$ 810,626.85

Additional Costs			
ITEM	PERCENTAGE	Total Cost	
Engineering and Survey	8%	\$	64,850.15
Construction management	3%	\$	24,318.81
Material Testing	2%	\$	16,212.54
City management	1%	\$	8,106.27
Legal	1%	\$	8,106.27
Contingency	15%	\$	121,594.03
Total		\$	243,188.06

Total Project Cost	\$ 1,053,814.91
Cost per LF of Pipe	\$ 122.03

*Assumes trench installation across HWY 248, not jack and bore.

*Only accounts for new 8-inch main along HWY 248. See C.1 or C.2 for redirecting Vantage Lane flows.

*Need to add on cost from C.1 or C.2. for Total Project Cost.

Option: C.4 - New 6-inch Pressure Main to JSSD Lift Station				
ITEM	Quantity	UNIT	UNIT COST	Total Cost
Mobilization and Demobilization	1	Lump	10%	\$ 46,743.88
Traffic Control	8	Days	\$ 240.00	\$ 1,920.00
Remove Existing Pipe		LF	\$ 6.00	\$ -
Remove Manhole		Each	\$ 1,200.00	\$ -
Remove existing surface materials	2140	LF	\$ 11.76	\$ 25,166.40
Install 8" Sanitary Sewer Pipe		LF	\$ 53.00	\$ -
Install 6" Pressurized Sanitary Sewer Pipe	2140	LF	\$ 104.00	\$ 222,560.00
Install 4-Foot Diameter Manhole		Each	\$ 4,320.00	\$ -
Install 5-Foot Diameter Manhole		Each	\$ 5,400.00	\$ -
Reconnect Service Laterals		Each	\$ 2,100.00	\$ -
Connect to Existing System	2	Each	\$ 3,920.00	\$ 7,840.00
Roadway Patching	889	SY	\$ 42.00	\$ 37,338.00
Landscaping and surface Restoration	10000	SY	\$ 1.80	\$ 18,000.00
				\$ 359,568.28

Additional Costs			
ITEM	PERCENTAGE		Total Cost
Engineering and Survey	8%		\$ 28,765.46
Construction management	3%		\$ 10,787.05
Material Testing	2%		\$ 7,191.37
City management	1%		\$ 3,595.68
Legal	1%		\$ 3,595.68
Contingency	15%		\$ 53,935.24
Total			\$ 107,870.48

Total Project Cost	\$ 467,438.76
Cost per LF of Pipe	\$ 218.43

E. SEWERGEMS REPORT



Existing Scenario - ADD
Conduit Table - Time: 0.00 hours

ID	Label	Length (Scaled) (ft)	Slope (Calculated) (ft/ft)	Diameter (in)	Is Active?	Flow (gal/min)
304	CO-4	64.9	0.005	8.00	True	5.62
305	CO-5	339.0	0.078	8.00	True	6.19
306	CO-6	114.1	0.004	8.00	True	8.08
307	CO-7	115.6	0.004	8.00	True	7.69
308	CO-8	65.8	0.004	8.00	True	7.30
309	CO-9	28.6	0.043	8.00	True	11.52
310	CO-10	85.5	0.172	8.00	True	11.52
311	CO-11	53.7	0.063	8.00	True	11.52
312	CO-12	79.7	0.078	8.00	True	12.48
313	CO-13	47.5	0.039	8.00	True	12.96
314	CO-14	87.6	0.020	8.00	True	12.96
315	CO-15	200.4	0.045	8.00	True	13.92
316	CO-16	308.5	0.005	8.00	True	21.12
317	CO-17	342.2	0.037	8.00	True	21.60
318	CO-18	335.7	0.023	8.00	True	21.60
319	CO-19	207.5	0.020	8.00	True	21.60
320	CO-20	243.1	0.031	8.00	True	21.60
321	CO-21	395.8	0.088	8.00	True	21.60
322	CO-22	61.6	0.004	8.00	True	0.48
323	CO-23	213.8	0.004	8.00	True	1.44
324	CO-24	364.6	0.102	8.00	True	3.93
325	CO-25	36.7	0.074	8.00	True	6.96
326	CO-26	48.3	0.060	8.00	True	7.30
327	CO-27	41.7	0.062	8.00	True	7.03
328	CO-28	274.3	0.004	8.00	True	0.48
329	CO-29	127.1	0.004	8.00	True	2.40
330	CO-30	92.4	0.004	8.00	True	3.36
331	CO-31	94.0	0.066	8.00	True	4.32
332	CO-32	118.9	0.087	8.00	True	5.04
333	CO-33	35.1	0.080	8.00	True	5.28
334	CO-34	57.5	0.116	8.00	True	5.28
335	CO-35	47.8	0.006	8.00	True	5.41
337	CO-37	21.6	0.048	8.00	True	0.00
338	CO-38	406.6	0.046	8.00	True	0.24
339	CO-39	301.6	0.095	8.00	True	0.72
340	CO-40	116.0	0.036	8.00	True	1.68
341	CO-41	299.4	0.003	8.00	True	1.92
342	CO-42	364.5	0.090	8.00	True	2.16
343	CO-43	364.3	0.030	8.00	True	2.16
345	CO-45	108.6	0.098	8.00	True	0.00
346	CO-46	390.4	0.056	8.00	True	0.00
347	CO-47	273.8	0.009	8.00	True	0.00
348	CO-48	377.3	0.052	8.00	True	0.00
349	CO-49	374.8	0.117	8.00	True	0.00
350	CO-50	88.7	0.068	8.00	True	0.48
351	CO-51	175.8	0.011	8.00	True	0.48

Existing Scenario - ADD
Conduit Table - Time: 0.00 hours

ID	Label	Length (Scaled) (ft)	Slope (Calculated) (ft/ft)	Diameter (in)	Is Active?	Flow (gal/min)
354	CO-54	148.3	0.101	8.00	True	0.00
355	CO-55	160.6	0.066	8.00	True	0.24
356	CO-56	205.4	0.129	8.00	True	3.12
357	CO-57	245.7	0.042	8.00	True	3.12
358	CO-58	465.7	0.079	8.00	True	3.12
359	CO-59	383.1	0.062	8.00	True	3.12
360	CO-60	24.0	0.056	8.00	True	0.00
361	CO-61	463.0	0.115	8.00	True	3.12
362	CO-62	235.4	0.054	8.00	True	3.12
363	CO-63	229.1	0.009	8.00	True	3.12
364	CO-64	109.7	0.020	8.00	True	3.12
365	CO-65	394.5	0.017	8.00	True	3.12
366	CO-66	398.1	0.065	8.00	True	3.12
367	CO-67	389.9	0.068	8.00	True	3.12
368	CO-68	360.4	0.049	8.00	True	3.12
369	CO-69	279.1	0.012	8.00	True	32.64
370	CO-70	183.5	0.139	8.00	True	32.64
371	CO-71	145.9	0.192	10.00	True	32.64
372	CO-72	217.1	0.003	10.00	True	32.64
373	CO-73	153.9	0.039	10.00	True	32.64
374	CO-74	181.3	0.009	10.00	True	41.04
375	CO-75	203.7	0.028	10.00	True	41.04
376	CO-76	429.6	0.057	8.00	True	23.04
377	CO-77	337.8	0.095	8.00	True	23.52
378	CO-78	137.7	0.083	8.00	True	23.52
379	CO-79	159.0	0.043	8.00	True	23.52
380	CO-80	95.8	0.016	8.00	True	23.52
381	CO-81	278.3	0.012	8.00	True	23.52
382	CO-82	267.3	0.007	8.00	True	23.52
383	CO-83	215.6	0.005	8.00	True	23.52
384	CO-84	77.7	0.013	8.00	True	24.00
385	CO-85	42.2	0.006	8.00	True	24.00
386	CO-86	191.3	0.034	8.00	True	24.00
391	CO-88	23.1	0.009	8.00	True	0.00
394	CO-91	35.4	0.028	8.00	True	24.00
414	CO-92(1)	388.7	0.015	8.00	True	26.64
415	CO-92(2)	195.3	0.048	8.00	True	29.04
396	CO-93	54.6	0.192	8.00	True	29.28
397	CO-94	233.5	0.198	8.00	True	29.28
398	CO-95	63.1	0.034	8.00	True	29.28
399	CO-96	102.3	0.050	8.00	True	29.28
400	CO-97	296.5	0.067	8.00	True	29.28
401	CO-98	332.4	0.149	8.00	True	29.28
402	CO-99	258.5	0.136	8.00	True	29.28
403	CO-100	206.3	0.058	8.00	True	29.28
406	CO-103	44.6	0.196	8.00	True	0.24

Existing Scenario - ADD
Conduit Table - Time: 0.00 hours

ID	Label	Length (Scaled) (ft)	Slope (Calculated) (ft/ft)	Diameter (in)	Is Active?	Flow (gal/min)
407	CO-104	170.3	0.056	8.00	True	0.00
408	CO-105	282.4	0.011	8.00	True	0.24
409	CO-106	44.1	0.023	8.00	True	0.48
410	CO-107	45.3	0.020	8.00	True	0.72
411	CO-108	244.9	0.075	8.00	True	0.96
412	CO-109	179.9	0.070	8.00	True	2.40
416	CO-110	36.9	0.059	8.00	True	2.40
417	CO-111	207.4	0.069	8.00	True	0.00
418	CO-112	186.7	0.152	8.00	True	0.00
419	CO-113	138.9	0.171	8.00	True	0.00
420	CO-114	375.9	0.081	8.00	True	0.48
421	CO-115	358.2	0.071	8.00	True	1.68
422	CO-116	97.9	0.130	8.00	True	2.64
423	CO-117	290.3	0.083	8.00	True	0.00
424	CO-118	181.2	0.108	8.00	True	0.24
425	CO-119	163.0	0.192	8.00	True	0.72
427	CO-120	92.7	0.012	8.00	True	5.76
428	CO-121	101.8	0.012	8.00	True	6.00
429	CO-122	62.9	0.014	8.00	True	6.48
430	CO-123	373.9	0.057	8.00	True	6.96
431	CO-124	100.5	0.052	8.00	True	7.20
432	CO-125	168.9	0.065	8.00	True	7.68
433	CO-126	128.9	0.065	8.00	True	7.68
434	CO-127	18.7	0.060	8.00	True	7.68
435	CO-128	186.0	0.212	8.00	True	7.68
436	CO-129	248.3	0.199	8.00	True	8.40
437	CO-130	273.6	0.172	8.00	True	8.40
438	CO-131	166.4	0.142	8.00	True	8.40
439	CO-132	201.4	0.082	8.00	True	0.96
440	CO-133	21.9	0.007	8.00	True	1.44
441	CO-134	412.7	0.076	8.00	True	5.76
442	CO-135	583.5	0.102	8.00	True	4.32
443	CO-136	78.8	0.048	8.00	True	0.48
444	CO-137	374.6	0.018	8.00	True	0.48
445	CO-138	112.3	0.042	8.00	True	4.56
446	CO-139	272.0	0.198	8.00	True	10.32
447	CO-140	252.5	0.006	8.00	True	0.00
448	CO-141	107.4	0.020	8.00	True	0.96
449	CO-142	304.6	0.075	8.00	True	1.53
450	CO-143	36.9	0.155	8.00	True	2.37
451	CO-144	206.7	0.004	8.00	True	0.48
452	CO-145	146.4	0.072	8.00	True	1.44
453	CO-146	109.6	0.046	8.00	True	1.92
454	CO-147	253.4	0.065	8.00	True	2.47
455	CO-148	51.9	0.505	8.00	True	4.46
456	CO-149	21.5	0.033	8.00	True	4.56

Existing Scenario - ADD
Conduit Table - Time: 0.00 hours

ID	Label	Length (Scaled) (ft)	Slope (Calculated) (ft/ft)	Diameter (in)	Is Active?	Flow (gal/min)
457	CO-150	170.5	0.004	8.00	True	4.52
458	CO-151	139.6	0.004	8.00	True	5.00
460	CO-153	24.9	0.040	8.00	True	1.12
461	CO-154	272.7	0.066	8.00	True	0.00
462	CO-155	71.3	0.070	8.00	True	0.00
463	CO-156	187.5	0.052	8.00	True	0.00
464	CO-157	59.8	0.004	8.00	True	0.00
465	CO-158	274.5	0.006	8.00	True	0.00
466	CO-159	134.5	0.003	8.00	True	0.00
467	CO-160	178.9	0.041	8.00	True	0.00
468	CO-161	104.7	0.020	8.00	True	0.00
469	CO-162	120.2	0.010	8.00	True	0.00
471	CO-163	243.0	0.005	12.00	True	0.00
474	CO-164	154.9	0.004	8.00	True	0.00
475	CO-165	158.0	0.004	8.00	True	0.00
476	CO-166	186.7	0.004	8.00	True	0.00
477	CO-167	178.1	0.004	8.00	True	0.00
478	CO-168	41.3	0.061	8.00	True	0.00
479	CO-169	126.3	0.103	8.00	True	0.00
480	CO-170	158.1	0.096	8.00	True	3.36
481	CO-171	199.5	0.062	8.00	True	3.36
482	CO-172	63.7	0.078	8.00	True	3.36
483	CO-173	322.6	0.073	8.00	True	3.36
484	CO-174	372.2	0.004	8.00	True	3.36
485	CO-175	161.6	0.005	8.00	True	0.48
486	CO-176	202.0	0.010	8.00	True	1.44
487	CO-177	149.0	0.004	8.00	True	2.44
488	CO-178	145.4	0.004	8.00	True	3.36
489	CO-179	103.1	0.004	8.00	True	3.36
490	CO-180	125.4	0.004	8.00	True	0.00
491	CO-181	135.0	0.004	8.00	True	0.00
492	CO-182	149.1	0.004	8.00	True	0.00
493	CO-183	175.0	0.004	8.00	True	0.00
494	CO-184	130.8	0.004	8.00	True	0.00
495	CO-185	169.5	0.111	8.00	True	0.00
499	CO-186	73.1	0.029	8.00	True	3.36
528	CO-191	148.8	0.198	8.00	True	1.20
627	CO-192(1)	92.2	0.107	8.00	True	1.20
628	CO-192(2)	454.9	0.065	8.00	True	1.20
548	CO-193(1)	238.0	0.023	8.00	True	1.20
549	CO-193(2)	430.0	0.029	8.00	True	4.32
531	CO-194	381.5	0.108	8.00	True	0.00
532	CO-195	400.8	0.105	8.00	True	0.00
533	CO-196	214.5	0.070	8.00	True	0.24
534	CO-197	822.4	0.114	8.00	True	0.24
535	CO-198	207.3	0.022	8.00	True	0.00

Existing Scenario - ADD
Conduit Table - Time: 0.00 hours

ID	Label	Length (Scaled) (ft)	Slope (Calculated) (ft/ft)	Diameter (in)	Is Active?	Flow (gal/min)
536	CO-199	140.7	0.018	8.00	True	0.00
537	CO-200	811.7	0.073	8.00	True	0.00
538	CO-201	399.7	0.075	8.00	True	0.24
539	CO-202	405.4	0.090	8.00	True	0.24
540	CO-203	408.5	0.098	8.00	True	0.00
541	CO-204	312.6	0.037	8.00	True	0.00
542	CO-205	351.8	0.045	8.00	True	0.96
543	CO-206	379.0	0.057	8.00	True	2.26
544	CO-207	373.5	0.093	8.00	True	2.98
545	CO-208	146.7	0.096	8.00	True	3.22
546	CO-209	368.4	0.021	8.00	True	3.22
550	CO-210	646.6	0.120	8.00	True	3.22
553	CO-211	80.9	0.055	8.00	False	(N/A)
554	CO-212	108.5	0.102	8.00	False	(N/A)
555	CO-213	232.6	0.049	8.00	False	(N/A)
556	CO-214	342.6	0.052	12.00	True	0.00
557	CO-215	212.1	0.036	12.00	True	0.00
558	CO-216	167.6	0.022	12.00	True	0.00
563	CO-218	454.3	0.034	8.00	True	0.00
564	CO-219	140.3	0.067	8.00	True	0.00
566	CO-221	259.6	0.011	8.00	False	(N/A)
567	CO-222	99.9	0.100	8.00	False	(N/A)
568	CO-223	318.2	0.117	8.00	False	(N/A)
569	CO-224	188.3	0.044	8.00	False	(N/A)
570	CO-225	289.1	0.129	8.00	True	0.00
571	CO-226	236.6	0.045	8.00	True	0.00
572	CO-227	281.6	0.031	8.00	True	0.00
573	CO-228	167.4	0.141	8.00	True	0.00
574	CO-229	101.1	0.170	8.00	False	(N/A)
575	CO-230	102.4	0.154	8.00	False	(N/A)
576	CO-231	134.4	0.064	8.00	False	(N/A)
577	CO-232	360.6	0.046	8.00	False	(N/A)
578	CO-233	105.1	0.010	8.00	True	0.00
579	CO-234	137.1	0.007	8.00	True	0.00
580	CO-235	237.9	0.053	8.00	True	0.00
581	CO-236	93.6	0.157	8.00	True	0.00
582	CO-237	94.8	0.163	8.00	True	0.00
583	CO-238	73.5	0.052	8.00	True	0.00
1495	CO-239(1)	20.9	0.016	8.00	True	0.00
1496	CO-239(2)	93.6	0.021	12.00	True	49.44
587	CO-240	146.3	0.009	12.00	True	49.44
588	CO-241	34.7	0.100	12.00	True	49.44
589	CO-242	100.2	0.153	12.00	True	49.44
590	CO-243	98.3	0.010	8.00	True	0.00
591	CO-244	88.8	0.006	8.00	True	0.00
592	CO-245	117.5	0.011	8.00	True	0.00

Existing Scenario - ADD
Conduit Table - Time: 0.00 hours

ID	Label	Length (Scaled) (ft)	Slope (Calculated) (ft/ft)	Diameter (in)	Is Active?	Flow (gal/min)
593	CO-246	259.7	0.014	8.00	True	0.00
594	CO-247	290.3	0.010	8.00	True	0.00
595	CO-248	67.2	0.014	8.00	True	0.00
596	CO-249	81.8	0.013	8.00	True	0.00
597	CO-250	235.3	0.014	8.00	True	0.00
598	CO-251	89.9	0.015	8.00	True	0.00
600	CO-253	270.3	0.013	8.00	True	0.00
601	CO-254	70.6	0.075	8.00	True	0.00
602	CO-255	82.3	0.064	8.00	True	0.00
607	CO-257	283.5	0.010	12.00	True	164.22
1461	CO-258(2)	216.2	0.005	12.00	True	168.84
610	CO-259	107.6	0.127	8.00	True	5.76
611	CO-260	217.9	0.043	8.00	True	13.92
612	CO-261	235.3	0.067	8.00	True	21.60
613	CO-262	120.0	0.092	8.00	True	29.28
614	CO-263	99.1	0.059	8.00	True	0.00
615	CO-264	91.7	0.063	8.00	True	2.40
616	CO-265	214.5	0.016	8.00	True	2.42
617	CO-266	98.2	0.002	12.00	True	5.76
618	CO-267	115.5	0.098	12.00	True	11.52
619	CO-268	157.6	0.006	12.00	True	20.16
620	CO-269	178.9	0.005	12.00	True	2.88
630	CO-271	266.7	0.087	8.00	True	29.52
631	CO-272	322.9	0.046	8.00	True	2.16
1153	CO-274	122.8	0.009	8.00	True	0.48
1155	CO-275	125.4	0.036	8.00	True	0.48
1202	CO-281	224.9	0.086	8.00	True	0.00
1203	CO-282	373.7	0.073	8.00	True	0.00
1204	CO-283	180.3	0.050	8.00	True	0.00
1205	CO-284	96.7	0.005	8.00	True	0.48
1209	CO-285	242.2	0.049	8.00	True	0.00
1210	CO-286	250.8	0.076	8.00	True	0.00
1211	CO-287	90.3	0.477	8.00	True	0.00
1212	CO-288	126.9	0.056	8.00	True	1.37
1213	CO-289	54.0	0.046	8.00	True	1.36
1214	CO-290	107.5	0.013	8.00	True	1.93
1215	CO-291	193.8	0.056	8.00	True	0.00
1216	CO-292	139.4	0.055	8.00	True	0.00
1218	CO-293	143.0	0.062	8.00	True	1.92
1499	CO-296	16.8	0.213	8.00	True	2.04
1224	CO-297	80.4	0.087	8.00	True	0.00
1225	CO-298	143.3	0.032	8.00	True	0.00
1226	CO-299	358.9	0.029	8.00	True	0.00
1229	CO-300	435.6	0.034	8.00	False	(N/A)
1231	CO-301	97.9	0.004	8.00	False	(N/A)
1233	CO-302	30.5	0.008	8.00	False	(N/A)

Existing Scenario - ADD
Conduit Table - Time: 0.00 hours

ID	Label	Length (Scaled) (ft)	Slope (Calculated) (ft/ft)	Diameter (in)	Is Active?	Flow (gal/min)
1235	CO-303	118.6	0.010	8.00	False	(N/A)
1237	CO-304	184.2	0.007	8.00	False	(N/A)
1239	CO-305	105.4	0.013	8.00	False	(N/A)
1241	CO-306	307.6	0.066	8.00	False	(N/A)
1243	CO-307	77.9	0.505	8.00	False	(N/A)
1245	CO-308	451.3	0.037	8.00	False	(N/A)
1246	CO-309	169.0	0.006	8.00	False	(N/A)
1451	CO-311	758.8	0.070	8.00	True	0.00
1466	CO-313	2,345.2	0.026	12.00	True	0.00
1472	CO-316	580.5	0.062	12.00	True	20.16
1474	CO-317	419.0	0.115	12.00	True	0.00
1477	CO-318	48.4	0.021	12.00	True	20.16
1492	CO-319(1)	3,215.7	0.031	12.00	True	0.00
1493	CO-319(2)	564.2	0.009	12.00	True	49.44
1513	CO-326	663.1	0.065	8.00	False	(N/A)
1519	CO-327	745.1	0.001	8.00	True	0.00
1738	CO-329	2,320.4	0.052	12.00	False	(N/A)
Flow (Maximum) (gal/min)	Velocity (ft/s)	Material	Capacity (Full Flow) (gal/min)	Flow / Capacity (Design) (%)	Invert (Start) (ft)	Invert (Stop) (ft)
5.76	0.68	PVC	495.23	1.1	6,815.05	6,814.73
6.19	0.74	PVC	1,963.65	0.3	6,814.53	6,788.23
8.08	0.80	PVC	442.83	1.8	6,788.03	6,787.58
8.77	0.76	PVC	439.83	1.7	6,787.38	6,786.93
8.78	0.77	PVC	425.96	1.7	6,786.73	6,786.49
15.97	0.68	PVC	1,463.08	0.8	6,786.19	6,784.96
16.06	0.68	PVC	2,922.74	0.4	6,784.36	6,769.67
16.12	0.68	PVC	1,774.22	0.6	6,769.67	6,766.27
16.69	0.69	PVC	1,969.44	0.6	6,766.27	6,760.05
16.90	0.70	PVC	1,394.52	0.9	6,760.05	6,758.19
16.68	0.70	PVC	987.71	1.3	6,758.19	6,756.47
17.56	0.71	PVC	1,494.90	0.9	6,756.47	6,747.46
24.82	1.04	PVC	493.29	4.3	6,747.26	6,745.75
25.16	0.91	PVC	1,352.39	1.6	6,745.75	6,733.16
25.27	1.14	PVC	1,070.51	2.0	6,733.16	6,725.42
25.19	0.87	PVC	994.71	2.2	6,725.42	6,721.29
25.18	0.80	PVC	1,234.34	1.7	6,721.29	6,713.84
25.16	0.80	PVC	2,096.54	1.0	6,713.84	6,678.84
0.48	0.52	PVC	440.08	0.1	6,834.46	6,834.22
1.48	0.55	PVC	441.93	0.3	6,834.02	6,833.18
3.93	0.58	PVC	2,256.20	0.2	6,832.98	6,795.64
8.16	0.62	PVC	1,916.76	0.4	6,795.27	6,792.56
8.06	0.63	PVC	1,733.91	0.4	6,792.26	6,789.34
7.57	0.62	PVC	1,753.98	0.4	6,789.07	6,786.49
0.48	0.52	PVC	438.26	0.1	6,777.66	6,776.60
2.42	0.59	PVC	437.75	0.5	6,776.40	6,775.91

Existing Scenario - ADD
Conduit Table - Time: 0.00 hours

Flow (Maximum) (gal/min)	Velocity (ft/s)	Material	Capacity (Full Flow) (gal/min)	Flow / Capacity (Design) (%)	Invert (Start) (ft)	Invert (Stop) (ft)
3.37	0.62	PVC	433.90	0.8	6,775.71	6,775.36
4.36	0.59	PVC	1,817.65	0.2	6,775.16	6,768.91
5.09	0.60	PVC	2,083.56	0.2	6,768.59	6,758.21
5.31	0.60	PVC	1,991.26	0.3	6,757.85	6,755.05
5.33	0.60	PVC	2,396.23	0.2	6,754.68	6,748.04
5.41	0.65	PVC	549.07	1.0	6,747.75	6,747.46
0.00	0.00	PVC	1,539.62	0.0	6,724.25	6,723.22
0.24	0.45	PVC	1,518.41	0.0	6,723.22	6,704.36
0.72	0.53	PVC	2,167.92	0.0	6,704.36	6,675.84
1.70	0.55	PVC	1,336.63	0.1	6,675.84	6,671.67
1.96	0.62	PVC	357.55	0.5	6,671.67	6,670.90
2.19	0.55	PVC	2,112.40	0.1	6,670.90	6,638.18
2.30	0.55	PVC	1,213.42	0.2	6,638.18	6,627.39
0.00	0.00	PVC	2,203.42	0.0	6,648.77	6,638.16
0.00	0.00	PVC	1,666.40	0.0	6,715.54	6,693.73
0.00	0.00	PVC	677.77	0.0	6,693.73	6,691.20
0.00	0.00	PVC	1,614.39	0.0	6,691.20	6,671.42
0.00	0.00	PVC	2,416.42	0.0	6,671.42	6,627.39
0.48	0.52	PVC	1,833.36	0.0	6,620.53	6,614.53
0.48	0.52	PVC	736.75	0.1	6,614.53	6,612.61
0.00	0.00	PVC	2,239.58	0.0	6,638.16	6,623.20
0.24	0.45	PVC	1,810.56	0.0	6,623.20	6,612.61
3.95	0.57	PVC	2,529.08	0.1	6,612.61	6,586.18
3.97	0.57	PVC	1,442.20	0.2	6,586.18	6,575.90
4.04	0.57	PVC	1,984.84	0.2	6,575.90	6,538.99
3.94	0.57	PVC	1,749.18	0.2	6,538.99	6,515.41
0.00	0.00	PVC	1,664.61	0.0	6,577.24	6,575.90
4.26	0.57	PVC	2,386.22	0.1	6,515.41	6,462.37
4.95	0.57	PVC	1,642.15	0.2	6,462.37	6,449.60
4.06	0.57	PVC	658.79	0.5	6,449.60	6,447.60
4.02	0.57	PVC	1,000.59	0.3	6,447.60	6,445.39
4.04	0.57	PVC	914.74	0.3	6,445.39	6,438.75
4.02	0.57	PVC	1,798.68	0.2	6,438.75	6,412.84
4.00	0.57	PVC	1,835.75	0.2	6,412.84	6,386.41
3.99	0.57	PVC	1,559.04	0.2	6,386.41	6,368.79
37.34	0.93	PVC	763.21	4.3	6,368.79	6,365.52
37.25	0.93	PVC	2,623.96	1.2	6,365.52	6,340.10
38.57	0.93	PVC	5,599.97	0.6	6,340.10	6,312.10
37.24	0.93	PVC	736.24	4.4	6,312.10	6,311.38
37.24	0.93	PVC	2,534.17	1.3	6,311.38	6,305.33
56.97	1.03	PVC	1,223.27	3.4	6,305.33	6,303.67
56.99	1.03	PVC	2,132.99	1.9	6,303.67	6,298.00
26.65	0.82	PVC	1,676.85	1.4	6,678.84	6,654.54
27.15	0.94	PVC	2,168.24	1.1	6,654.54	6,622.59
27.22	0.83	PVC	2,025.43	1.2	6,622.59	6,611.23
27.19	0.83	PVC	1,468.62	1.6	6,611.23	6,604.33

Existing Scenario - ADD
Conduit Table - Time: 0.00 hours

Flow (Maximum) (gal/min)	Velocity (ft/s)	Material	Capacity (Full Flow) (gal/min)	Flow / Capacity (Design) (%)	Invert (Start) (ft)	Invert (Stop) (ft)
27.13	0.83	PVC	891.04	2.6	6,604.33	6,602.80
27.13	1.16	PVC	774.76	3.0	6,602.80	6,599.44
27.12	1.10	PVC	570.49	4.1	6,599.44	6,597.69
27.09	0.87	PVC	480.16	4.9	6,597.69	6,596.69
27.61	0.83	PVC	800.06	3.0	6,596.69	6,595.69
27.60	0.84	PVC	564.24	4.3	6,595.69	6,595.42
27.57	0.83	PVC	1,308.46	1.8	6,595.42	6,588.83
0.00	0.00	PVC	655.62	0.0	6,606.40	6,606.20
27.73	0.83	PVC	1,185.51	2.0	6,588.83	6,587.83
30.32	0.86	PVC	870.12	3.1	6,587.83	6,581.91
32.70	0.89	PVC	1,546.69	1.9	6,581.91	6,572.51
32.98	0.89	PVC	3,092.08	0.9	6,572.51	6,562.00
33.18	0.89	PVC	3,137.86	0.9	6,562.00	6,515.75
33.44	0.89	PVC	1,301.11	2.3	6,515.75	6,513.60
33.44	0.89	PVC	1,583.42	1.8	6,513.60	6,508.44
33.44	0.89	PVC	1,819.51	1.6	6,508.44	6,488.69
33.44	0.89	PVC	2,722.96	1.1	6,488.69	6,439.11
33.44	0.89	PVC	2,602.24	1.1	6,439.11	6,403.90
33.44	0.89	PVC	1,691.32	1.7	6,403.90	6,392.03
0.24	0.45	PVC	3,118.61	0.0	6,581.24	6,572.51
0.00	0.00	PVC	1,665.17	0.0	6,525.25	6,515.75
0.24	0.45	PVC	726.62	0.0	6,584.24	6,581.24
0.48	0.52	PVC	1,077.02	0.0	6,616.80	6,615.77
0.72	0.53	PVC	988.12	0.1	6,615.77	6,614.88
0.96	0.53	PVC	1,925.13	0.0	6,614.88	6,596.62
2.43	0.56	PVC	1,862.24	0.1	6,596.62	6,584.07
2.43	0.56	PVC	1,706.64	0.1	6,584.07	6,581.91
0.00	0.00	PVC	1,849.46	0.0	6,629.15	6,614.88
0.00	0.00	PVC	2,752.89	0.0	6,708.53	6,680.06
0.00	0.00	PVC	2,912.79	0.0	6,680.06	6,656.36
0.48	0.52	PVC	2,006.06	0.0	6,656.36	6,625.93
1.68	0.55	PVC	1,876.11	0.1	6,625.93	6,600.57
2.64	0.56	PVC	2,544.01	0.1	6,600.57	6,587.83
0.00	0.00	PVC	2,033.00	0.0	6,680.50	6,656.36
0.24	0.45	PVC	2,316.03	0.0	6,647.55	6,628.00
0.72	0.53	PVC	3,093.28	0.0	6,628.00	6,596.62
5.80	0.70	PVC	785.49	0.7	6,515.25	6,514.10
6.04	0.66	PVC	771.88	0.8	6,514.10	6,512.88
6.52	0.75	PVC	833.81	0.8	6,512.88	6,512.00
7.00	0.69	PVC	1,681.91	0.4	6,512.00	6,490.72
18.67	0.70	PVC	1,614.71	0.4	6,490.52	6,485.25
19.15	0.71	PVC	1,795.96	0.4	6,485.25	6,474.29
19.15	0.71	PVC	1,798.75	0.4	6,474.29	6,465.90
19.15	0.71	PVC	1,723.55	0.4	6,465.90	6,464.78
19.15	0.63	PVC	3,244.15	0.2	6,464.78	6,425.40
19.87	0.64	PVC	3,144.92	0.3	6,425.40	6,376.00

Existing Scenario - ADD
Conduit Table - Time: 0.00 hours

Flow (Maximum) (gal/min)	Velocity (ft/s)	Material	Capacity (Full Flow) (gal/min)	Flow / Capacity (Design) (%)	Invert (Start) (ft)	Invert (Stop) (ft)
19.87	0.65	PVC	2,922.36	0.3	6,376.00	6,329.00
19.87	0.66	PVC	2,659.25	0.3	6,329.00	6,305.33
0.96	0.53	PVC	2,018.66	0.0	6,563.56	6,547.05
1.47	0.54	PVC	602.11	0.2	6,546.85	6,546.69
5.80	0.64	PVC	1,939.84	0.3	6,546.49	6,515.25
4.32	0.60	PVC	2,249.15	0.2	6,608.08	6,548.70
0.48	0.52	PVC	1,544.34	0.0	6,564.01	6,560.23
0.48	0.52	PVC	942.24	0.1	6,560.03	6,553.34
4.56	0.59	PVC	1,439.22	0.3	6,553.14	6,548.46
11.35	0.66	PVC	3,139.98	0.3	6,548.06	6,494.12
11.52	0.00	PVC	537.91	0.0	6,492.19	6,490.72
0.96	0.53	PVC	1,008.92	0.1	6,584.40	6,582.20
1.53	0.59	PVC	1,926.45	0.1	6,582.00	6,559.26
2.37	0.56	PVC	2,775.17	0.1	6,559.26	6,553.54
0.48	0.52	PVC	441.39	0.1	6,612.81	6,612.00
1.44	0.54	PVC	1,897.33	0.1	6,611.80	6,601.20
1.92	0.55	PVC	1,506.00	0.1	6,601.00	6,596.00
2.47	0.62	PVC	1,799.06	0.1	6,596.00	6,579.50
4.46	0.59	PVC	5,010.42	0.1	6,579.00	6,552.79
4.56	0.59	PVC	1,272.07	0.4	6,550.79	6,550.09
4.52	0.65	PVC	441.96	1.0	6,549.89	6,549.22
5.00	0.65	PVC	446.56	1.1	6,549.02	6,548.46
1.12	0.54	PVC	1,411.93	0.1	6,495.12	6,494.12
0.00	0.00	PVC	1,805.72	0.0	6,345.67	6,327.78
0.00	0.00	PVC	1,866.69	0.0	6,327.48	6,322.48
0.00	0.00	PVC	1,601.23	0.0	6,322.18	6,312.51
0.00	0.00	PVC	427.47	0.0	6,312.31	6,312.09
0.00	0.00	PVC	524.68	0.0	6,311.89	6,310.37
0.00	0.00	PVC	369.86	0.0	6,310.37	6,310.00
0.00	0.00	PVC	1,431.80	0.0	6,310.00	6,302.62
0.00	0.00	PVC	1,003.49	0.0	6,302.62	6,300.50
0.00	0.00	PVC	713.25	0.0	6,300.50	6,299.27
0.00	0.00	PVC	1,502.76	0.0	6,299.27	6,298.00
0.00	0.00	PVC	438.80	0.0	6,342.19	6,341.59
0.00	0.00	PVC	438.09	0.0	6,341.39	6,340.78
0.00	0.00	PVC	440.82	0.0	6,340.58	6,339.85
0.00	0.00	PVC	438.82	0.0	6,339.65	6,338.96
0.00	0.00	PVC	1,744.62	0.0	6,338.76	6,336.23
0.00	0.00	PVC	2,258.03	0.0	6,336.03	6,323.08
3.65	0.57	PVC	2,179.48	0.2	6,322.48	6,307.37
3.63	0.57	PVC	1,760.39	0.2	6,306.77	6,294.33
3.60	0.57	PVC	1,974.89	0.2	6,294.03	6,289.03
3.60	0.57	PVC	1,904.15	0.2	6,288.73	6,265.20
3.66	0.57	PVC	443.06	0.8	6,264.80	6,263.33
0.48	0.52	PVC	502.29	0.1	6,327.63	6,326.81
1.46	0.54	PVC	701.53	0.2	6,326.81	6,324.81

Existing Scenario - ADD
Conduit Table - Time: 0.00 hours

Flow (Maximum) (gal/min)	Velocity (ft/s)	Material	Capacity (Full Flow) (gal/min)	Flow / Capacity (Design) (%)	Invert (Start) (ft)	Invert (Stop) (ft)
2.44	0.59	PVC	436.03	0.6	6,324.61	6,324.04
3.36	0.60	PVC	441.44	0.8	6,323.84	6,323.27
3.36	0.62	PVC	433.73	0.8	6,323.07	6,322.68
0.00	0.00	PVC	436.20	0.0	6,310.53	6,310.05
0.00	0.00	PVC	437.63	0.0	6,309.85	6,309.33
0.00	0.00	PVC	439.69	0.0	6,309.13	6,308.55
0.00	0.00	PVC	439.55	0.0	6,308.35	6,307.67
0.00	0.00	PVC	435.98	0.0	6,307.47	6,306.97
0.00	0.00	PVC	2,344.95	0.0	6,282.38	6,263.63
3.64	0.57	PVC	1,203.60	0.3	6,263.13	6,261.00
1.20	0.54	PVC	3,135.33	0.0	6,739.25	6,709.82
1.20	0.54	PVC	2,301.01	0.1	6,709.82	6,700.00
1.20	0.54	PVC	1,797.82	0.1	6,700.00	6,670.42
1.20	0.54	PVC	1,072.69	0.1	6,670.42	6,664.91
4.32	0.64	PVC	1,191.44	0.4	6,664.91	6,652.63
0.00	0.00	PVC	2,320.02	0.0	6,836.26	6,794.95
0.00	0.00	PVC	2,284.80	0.0	6,794.95	6,752.86
0.24	0.45	PVC	1,870.67	0.0	6,847.77	6,832.67
0.24	0.45	PVC	2,376.25	0.0	6,832.67	6,739.25
0.00	0.00	PVC	1,054.85	0.0	6,909.83	6,905.19
0.00	0.00	PVC	934.11	0.0	6,909.83	6,907.36
0.00	0.00	PVC	1,910.33	0.0	6,907.36	6,847.77
0.24	0.45	PVC	1,928.64	0.0	6,828.54	6,798.63
0.24	0.45	PVC	2,115.29	0.0	6,865.03	6,828.54
0.00	0.00	PVC	2,210.68	0.0	6,905.19	6,865.03
0.00	0.00	PVC	1,355.81	0.0	6,847.77	6,836.21
0.96	0.53	PVC	1,500.85	0.1	6,836.21	6,820.27
2.26	0.63	PVC	1,684.80	0.1	6,820.27	6,798.63
2.98	0.58	PVC	2,146.85	0.1	6,798.63	6,764.00
3.22	0.57	PVC	2,185.09	0.1	6,764.00	6,749.91
3.22	0.60	PVC	1,011.35	0.3	6,749.91	6,742.33
3.22	0.57	PVC	2,439.67	0.1	6,742.33	6,664.91
(N/A)	(N/A)	PVC	1,659.40	(N/A)	6,416.84	6,412.36
(N/A)	(N/A)	PVC	2,256.23	(N/A)	6,412.06	6,400.95
(N/A)	(N/A)	PVC	1,552.79	(N/A)	6,400.65	6,389.37
0.00	0.00	PVC	4,757.87	0.0	6,532.81	6,514.86
0.00	0.00	PVC	3,955.98	0.0	6,514.86	6,507.18
0.00	0.00	PVC	3,108.94	0.0	6,507.18	6,503.43
0.00	0.00	PVC	1,299.73	0.0	6,560.83	6,545.39
0.00	0.00	PVC	1,829.88	0.0	6,545.39	6,535.94
(N/A)	(N/A)	PVC	734.82	(N/A)	6,666.41	6,663.59
(N/A)	(N/A)	PVC	2,224.21	(N/A)	6,663.59	6,653.65
(N/A)	(N/A)	PVC	2,416.48	(N/A)	6,653.65	6,616.27
(N/A)	(N/A)	PVC	1,486.28	(N/A)	6,616.27	6,607.90
0.00	0.00	PVC	2,536.44	0.0	6,607.90	6,570.48
0.00	0.00	PVC	1,495.71	0.0	6,570.48	6,559.83

Existing Scenario - ADD
Conduit Table - Time: 0.00 hours

Flow (Maximum) (gal/min)	Velocity (ft/s)	Material	Capacity (Full Flow) (gal/min)	Flow / Capacity (Design) (%)	Invert (Start) (ft)	Invert (Stop) (ft)
0.00	0.00	PVC	1,237.85	0.0	6,559.83	6,551.15
1.41	0.00	PVC	2,651.71	0.0	6,551.15	6,527.47
(N/A)	(N/A)	PVC	2,902.97	(N/A)	6,649.16	6,632.02
(N/A)	(N/A)	PVC	2,765.57	(N/A)	6,632.02	6,616.27
(N/A)	(N/A)	PVC	1,781.16	(N/A)	6,678.72	6,670.14
(N/A)	(N/A)	PVC	1,507.68	(N/A)	6,670.14	6,653.65
0.00	0.00	PVC	687.60	0.0	6,599.70	6,598.70
0.00	0.00	PVC	602.12	0.0	6,598.70	6,597.70
0.00	0.00	PVC	1,623.96	0.0	6,597.70	6,585.08
0.00	0.00	PVC	2,794.37	0.0	6,585.08	6,570.38
0.00	0.00	PVC	2,842.26	0.0	6,570.38	6,554.97
0.00	0.00	PVC	1,607.07	0.0	6,554.97	6,551.15
0.00	0.00	PVC	899.57	0.0	6,323.07	6,322.73
51.67	1.13	PVC	3,038.13	1.6	6,322.73	6,320.73
51.63	1.13	PVC	1,982.26	2.5	6,320.73	6,319.40
51.64	1.13	PVC	6,575.95	0.8	6,319.40	6,315.93
51.68	1.13	PVC	8,139.35	0.6	6,315.93	6,300.57
0.00	0.00	PVC	711.20	0.0	6,301.57	6,300.57
0.00	0.00	PVC	549.84	0.0	6,302.31	6,301.77
0.00	0.00	PVC	738.81	0.0	6,303.80	6,302.51
0.00	0.00	PVC	832.36	0.0	6,307.62	6,304.00
0.00	0.00	PVC	714.32	0.0	6,310.80	6,307.82
0.00	0.00	PVC	825.23	0.0	6,311.92	6,311.00
0.00	0.00	PVC	806.44	0.0	6,313.19	6,312.12
0.00	0.00	PVC	836.28	0.0	6,316.70	6,313.39
0.00	0.00	PVC	876.63	0.0	6,318.29	6,316.90
0.00	0.00	PVC	816.99	0.0	6,325.31	6,321.68
0.00	0.00	PVC	1,934.80	0.0	6,330.83	6,325.51
0.00	0.00	PVC	1,785.58	0.0	6,336.31	6,331.03
520.53	1.13	PVC	2,102.48	7.8	6,298.47	6,295.57
535.71	2.27	PVC	1,482.68	11.4	6,299.57	6,298.47
5.76	0.62	PVC	2,516.59	0.2	6,386.42	6,372.71
13.99	0.87	PVC	1,459.63	1.0	6,364.54	6,355.20
21.67	1.05	PVC	1,826.85	1.2	6,355.00	6,339.20
29.35	1.15	PVC	2,134.76	1.4	6,339.00	6,328.00
0.00	0.00	PVC	1,705.61	0.0	6,380.00	6,374.20
2.41	0.56	PVC	1,772.78	0.1	6,374.00	6,368.20
2.46	0.56	PVC	895.44	0.3	6,368.00	6,364.54
5.78	0.63	PVC	938.19	0.6	6,377.70	6,377.50
11.56	0.68	PVC	6,502.52	0.2	6,377.50	6,366.20
20.17	1.02	PVC	1,655.61	1.2	6,366.00	6,365.00
2.88	0.63	PVC	1,398.77	0.2	6,378.51	6,377.70
33.68	0.90	PVC	2,081.28	1.4	6,392.03	6,368.79
3.08	0.60	PVC	1,508.32	0.1	6,627.39	6,612.61
0.48	0.52	PVC	670.39	0.1	6,585.71	6,584.60
0.48	0.52	PVC	1,335.65	0.0	6,584.00	6,579.50

Existing Scenario - ADD
Conduit Table - Time: 0.00 hours

Flow (Maximum) (gal/min)	Velocity (ft/s)	Material	Capacity (Full Flow) (gal/min)	Flow / Capacity (Design) (%)	Invert (Start) (ft)	Invert (Stop) (ft)
0.00	0.00	PVC	2,069.27	0.0	6,422.99	6,403.62
0.00	0.00	PVC	1,907.65	0.0	6,403.62	6,376.26
0.00	0.00	PVC	1,572.53	0.0	6,376.06	6,367.09
0.48	0.52	PVC	491.65	0.1	6,367.56	6,367.09
0.00	0.00	PVC	1,559.45	0.0	6,441.84	6,429.99
0.00	0.00	PVC	1,945.60	0.0	6,429.99	6,410.89
0.00	0.00	PVC	4,871.30	0.0	6,410.89	6,367.76
1.37	0.54	PVC	1,675.62	0.1	6,366.89	6,359.72
1.36	0.54	PVC	1,507.24	0.1	6,359.52	6,357.05
1.93	0.55	PVC	798.99	0.2	6,356.85	6,355.47
0.00	0.00	PVC	1,665.94	0.0	6,375.02	6,364.20
0.00	0.00	PVC	1,655.74	0.0	6,364.00	6,356.31
2.18	0.55	PVC	1,762.09	0.1	6,356.11	6,347.18
2.93	0.55	PVC	3,257.61	0.1	6,346.98	6,343.39
0.00	0.00	PVC	2,079.78	0.0	6,445.58	6,438.58
0.00	0.00	PVC	1,257.51	0.0	6,438.38	6,433.82
0.00	0.00	PVC	1,201.95	0.0	6,433.62	6,423.19
(N/A)	(N/A)	PVC	1,295.25	(N/A)	6,460.77	6,446.07
(N/A)	(N/A)	PVC	433.36	(N/A)	6,445.87	6,445.50
(N/A)	(N/A)	PVC	625.66	(N/A)	6,445.30	6,445.06
(N/A)	(N/A)	PVC	706.11	(N/A)	6,444.86	6,443.67
(N/A)	(N/A)	PVC	592.31	(N/A)	6,444.97	6,443.67
(N/A)	(N/A)	PVC	795.09	(N/A)	6,446.51	6,445.17
(N/A)	(N/A)	PVC	1,812.96	(N/A)	6,466.85	6,446.51
(N/A)	(N/A)	PVC	5,011.86	(N/A)	6,483.05	6,443.67
(N/A)	(N/A)	PVC	1,350.53	(N/A)	6,499.61	6,483.05
(N/A)	(N/A)	PVC	542.29	(N/A)	6,443.47	6,442.47
0.00	0.00		1,431.44	0.0	6,752.86	6,700.00
1.38	0.00		2,566.79	0.0	6,483.43	6,423.00
21.04	0.78		3,981.91	0.5	6,364.00	6,328.00
0.00	0.00	PVC	7,035.66	0.0	6,412.00	6,364.00
20.16	0.85	PVC	2,987.62	0.7	6,365.00	6,364.00
0.00	0.00		2,823.58	0.0	6,423.00	6,322.73
50.34	1.45		1,545.46	3.2	6,328.00	6,322.73
(N/A)	(N/A)	PVC	1,803.78	(N/A)	6,389.07	6,345.67
0.00	0.00	PVC	258.30	0.0	6,589.83	6,588.83
(N/A)	(N/A)	PVC	4,723.65	(N/A)	6,652.63	6,532.81

Pressure Pipe Table - Time: 0.00 hours

ID	Label	Start Node	Stop Node	Has User Defined Length?	Length (User Defined) (ft)	Length (Scaled) (ft)
1158	P-11	SM-0	J-6	False	0.0	346.6
1179	P-20	J-8	J-9	False	0.0	105.1
1180	P-21	J-9	SM-81	False	0.0	220.1
1549	P-24	J-10	SM-261	False	0.0	1,024.4

Existing Scenario - ADD
Pressure Pipe Table - Time: 0.00 hours

ID	Label	Start Node	Stop Node	Has User Defined Length?	Length (User Defined) (ft)	Length (Scaled) (ft)
1550	P-25	T-6	J-10	False	0.0	3,939.0
507	P-5	PMP-1	T-1	True	0.1	12.9
508	P-6	W-1	PMP-1	True	0.1	9.6
1506	P-22	W-8	PMP-9	True	0.1	9.7
1507	P-23	PMP-9	T-6	True	0.1	11.3
1564	P-4(2)	T-1	W-4	False	0.0	1,796.7
519	P-7	W-4	PMP-2	True	0.1	12.3
520	P-8	PMP-2	T-2	True	0.1	10.9
1552	P-26	MH-29	J-11	False	0.0	74.0
1553	P-27	J-11	SM-261	False	0.0	1,028.1
1560	P-28	J-12	J-11	False	0.0	3,961.3
1571	P-9(1)(1)	T-2	J-15	False	0.0	1,519.3
1572	P-9(1)(2)	J-15	J-12	False	0.0	2,008.4
1573	P-29	T-1	J-15	False	0.0	76.6
Is Active?	Diameter (in)	Flow (gal/min)	Velocity (ft/s)	Headloss (ft)	Notes	Material
True	2.08	0.00	0.00	2.04	DR 17	Ductile Iron
True	2.08	0.00	0.00	0.00	DR 17	Ductile Iron
True	2.08	3.36	0.32	0.07	DR 17	Ductile Iron
True	3.79	0.00	0.00	0.00	DR 17	Ductile Iron
True	3.79	0.00	0.00	0.00	DR 17	Ductile Iron
True	3.94	(N/A)	(N/A)	0.00	DR 17	Ductile Iron
True	3.94	(N/A)	(N/A)	0.00	DR 17	Ductile Iron
True	3.94	(N/A)	(N/A)	0.00	DR 17	Ductile Iron
True	3.94	(N/A)	(N/A)	0.00	DR 17	Ductile Iron
True	3.94	250.16	6.58	79.38	DR 17	Ductile Iron
True	5.80	(N/A)	(N/A)	0.00	DR 17	Ductile Iron
True	5.80	(N/A)	(N/A)	0.00	DR 17	Ductile Iron
True	5.80	1.20	0.01	0.00	DR 17	Ductile Iron
True	5.80	398.54	4.84	16.37	DR 17	Ductile Iron
True	5.80	397.34	4.82	62.72	DR 17	Ductile Iron
True	5.80	397.34	4.82	24.05	DR 17	Ductile Iron
True	5.80	397.34	4.82	31.80	DR 17	Ductile Iron
False	5.80	(N/A)	(N/A)	-33.64	DR 17	Ductile Iron

Manhole Table - Time: 0.00 hours

ID	Label	Elevation (Ground) (ft)	Elevation (Invert) (ft)	Sanitary Loads	Notes
112	SM-245	6,411.65	6,400.65	<Collection: 0 items>	
114	SM-246	6,422.06	6,412.06	<Collection: 0 items>	
116	SM-247	6,427.84	6,416.84	<Collection: 0 items>	
207	SM-173	6,621.27	6,616.27	<Collection: 0 items>	
219	SM-175	6,652.02	6,632.02	<Collection: 0 items>	
222	SM-176	6,654.16	6,649.16	<Collection: 0 items>	
224	SM-153	6,658.65	6,653.65	<Collection: 0 items>	

Existing Scenario - ADD
Manhole Table - Time: 0.00 hours

ID	Label	Elevation (Ground) (ft)	Elevation (Invert) (ft)	Sanitary Loads	Notes
227	SM-154	6,668.59	6,663.59	<Collection: 0 items>	
228	SM-155	6,671.41	6,663.59	<Collection: 0 items>	
229	SM-152	6,675.14	6,670.14	<Collection: 0 items>	
235	SM-151	6,683.72	6,678.72	<Collection: 0 items>	
1196	MH-40	6,448.05	6,425.00	<Collection: 0 items>	
1227	MH-15	6,469.05	6,460.77	<Collection: 0 items>	
1228	MH-16	6,453.96	6,445.87	<Collection: 0 items>	
1230	MH-17	6,452.65	6,445.30	<Collection: 0 items>	
1232	MH-18	6,452.12	6,444.86	<Collection: 0 items>	
1234	MH-19	6,451.33	6,443.47	<Collection: 0 items>	
1236	MH-20	6,452.23	6,444.97	<Collection: 0 items>	
1238	MH-21	6,453.25	6,446.51	<Collection: 0 items>	
1240	MH-22	6,472.86	6,466.85	<Collection: 0 items>	
1242	MH-23	6,504.76	6,483.05	<Collection: 0 items>	
1244	MH-24	6,504.61	6,499.61	<Collection: 0 items>	
1512	MH-49	6,400.07	6,389.07	<Collection: 0 items>	
30	SM-224	6,283.00	6,263.13	<Collection: 0 items>	
31	SM-225	6,279.39	6,264.80	<Collection: 0 items>	
32	SM-223	6,292.38	6,282.38	<Collection: 0 items>	
33	SM-226	6,298.73	6,288.73	<Collection: 0 items>	
35	SM-227	6,304.03	6,294.03	<Collection: 0 items>	
36	SM-211	6,304.27	6,279.27	<Collection: 0 items>	
37	SM-213	6,307.62	6,282.62	<Collection: 0 items>	
38	SM-254	6,326.36	6,313.19	<Collection: 0 items>	
39	SM-68	6,309.64	6,303.67	<Collection: 0 items>	
41	SM-15	6,310.58	6,305.33	<Collection: 0 items>	
42	SM-212	6,311.10	6,286.10	<Collection: 0 items>	
43	SM-260	6,313.91	6,301.57	<Collection: 0 items>	
44	SM-261	6,312.00	6,299.57	<Collection: 0 items>	
45	SM-16	6,319.44	6,311.38	<Collection: 0 items>	
46	SM-253	6,329.47	6,316.70	<Collection: 0 items>	
47	SM-17	6,320.42	6,312.10	<Collection: 0 items>	
48	SM-230	6,318.18	6,308.35	<Collection: 0 items>	
49	SM-258	6,316.73	6,303.80	<Collection: 0 items>	
50	SM-182	6,314.18	6,298.47	<Collection: 0 items>	
51	SM-217	6,321.31	6,295.52	<Collection: 0 items>	
52	SM-229	6,318.67	6,307.47	<Collection: 0 items>	
53	SM-180	6,320.93	6,315.93	<Collection: 0 items>	
54	SM-214	6,321.01	6,296.01	<Collection: 0 items>	
55	SM-222	6,319.91	6,309.85	<Collection: 0 items>	
56	SM-259	6,323.39	6,302.31	<Collection: 0 items>	
57	SM-178	6,325.73	6,320.73	<Collection: 0 items>	
58	SM-228	6,323.41	6,306.77	<Collection: 0 items>	
59	SM-231	6,318.56	6,309.13	<Collection: 0 items>	
60	SM-252	6,331.73	6,318.29	<Collection: 0 items>	
61	SM-257	6,320.30	6,307.62	<Collection: 0 items>	

Existing Scenario - ADD
Manhole Table - Time: 0.00 hours

ID	Label	Elevation (Ground) (ft)	Elevation (Invert) (ft)	Sanitary Loads	Notes
62	SM-177	6,328.07	6,323.07	<Collection: 0 items>	
63	SM-179	6,328.40	6,319.40	<Collection: 0 items>	
64	SM-221	6,318.80	6,310.53	<Collection: 0 items>	
65	SM-216	6,324.41	6,311.89	<Collection: 0 items>	
66	SM-215	6,330.83	6,305.83	<Collection: 0 items>	
67	SM-234	6,334.91	6,323.84	<Collection: 1 item>	
68	SM-218	6,332.18	6,322.18	<Collection: 0 items>	
70	SM-250	6,339.76	6,325.31	<Collection: 0 items>	
71	SM-233	6,333.98	6,323.07	<Collection: 0 items>	
72	SM-255	6,325.31	6,311.92	<Collection: 0 items>	
73	SM-13	6,336.89	6,329.00	<Collection: 0 items>	
74	SM-219	6,337.48	6,327.48	<Collection: 0 items>	
76	SM-249	6,348.52	6,330.83	<Collection: 0 items>	
77	SM-232	6,334.25	6,322.48	<Collection: 0 items>	
78	SM-236	6,337.35	6,326.81	<Collection: 1 item>	
79	SM-220	6,337.12	6,327.63	<Collection: 1 item>	
80	SM-235	6,337.07	6,324.61	<Collection: 1 item>	
81	SM-256	6,324.13	6,310.80	<Collection: 0 items>	
82	SM-241	6,353.36	6,339.65	<Collection: 0 items>	
85	SM-263	6,353.66	6,339.00	<Collection: 1 item>	
86	SM-243	6,344.17	6,336.03	<Collection: 0 items>	
87	SM-238	6,349.26	6,342.19	<Collection: 0 items>	
88	SM-242	6,347.68	6,338.76	<Collection: 0 items>	
89	SM-239	6,354.15	6,341.39	<Collection: 0 items>	
90	SM-240	6,355.22	6,340.58	<Collection: 0 items>	
91	SM-237	6,355.67	6,345.67	<Collection: 0 items>	
92	SM-18	6,371.10	6,340.10	<Collection: 0 items>	
93	SM-262	6,369.76	6,355.00	<Collection: 1 item>	
94	SM-203	6,370.47	6,365.52	<Collection: 0 items>	
96	SM-193	6,375.45	6,368.79	<Collection: 0 items>	
97	SM-122	6,378.44	6,368.00	<Collection: 0 items>	
98	SM-123	6,380.55	6,364.54	<Collection: 1 item>	
99	SM-121	6,384.57	6,374.00	<Collection: 1 item>	
100	SM-119	6,379.95	6,366.00	<Collection: 1 item>	
101	SM-14	6,389.57	6,376.00	<Collection: 0 items>	
103	SM-116	6,390.03	6,378.51	<Collection: 1 item>	
104	SM-124	6,390.84	6,380.00	<Collection: 0 items>	
105	SM-204	6,392.37	6,386.41	<Collection: 0 items>	
106	SM-266	6,391.42	6,386.42	<Collection: 1 item>	
107	SM-118	6,390.29	6,377.50	<Collection: 1 item>	
108	SM-117	6,394.86	6,377.70	<Collection: 1 item>	
109	SM-192	6,398.16	6,392.03	<Collection: 1 item>	
111	SM-70	6,408.90	6,403.90	<Collection: 0 items>	
113	SM-205	6,417.89	6,412.84	<Collection: 0 items>	
118	SM-6	6,442.65	6,425.40	<Collection: 1 item>	
119	SM-206	6,444.24	6,438.75	<Collection: 0 items>	

Existing Scenario - ADD
Manhole Table - Time: 0.00 hours

ID	Label	Elevation (Ground) (ft)	Elevation (Invert) (ft)	Sanitary Loads	Notes
120	SM-71	6,444.11	6,439.11	<Collection: 0 items>	
121	SM-191	6,456.53	6,449.60	<Collection: 0 items>	
122	SM-208	6,457.46	6,447.60	<Collection: 0 items>	
123	SM-207	6,461.25	6,445.39	<Collection: 0 items>	
124	SM-209	6,467.37	6,462.37	<Collection: 0 items>	
125	SM-4	6,481.40	6,464.78	<Collection: 0 items>	
126	SM-3	6,481.68	6,465.90	<Collection: 0 items>	
127	SM-5	6,487.10	6,474.29	<Collection: 0 items>	
128	SM-66	6,493.69	6,488.69	<Collection: 0 items>	
129	SM-0	6,501.25	6,496.25	<Collection: 0 items>	
130	SM-7	6,499.79	6,485.25	<Collection: 1 item>	
131	SM-8	6,503.83	6,490.52	<Collection: 1 item>	
132	SM-1	6,505.88	6,492.19	<Collection: 0 items>	
136	SM-65	6,513.44	6,508.44	<Collection: 0 items>	
137	SM-64	6,518.60	6,513.60	<Collection: 0 items>	
139	SM-190	6,521.62	6,515.41	<Collection: 0 items>	
140	SM-202	6,520.66	6,515.75	<Collection: 0 items>	
141	SM-9	6,524.92	6,512.00	<Collection: 1 item>	
142	SM-10	6,525.37	6,512.88	<Collection: 1 item>	
143	SM-11	6,526.12	6,514.10	<Collection: 1 item>	
144	SM-12	6,526.80	6,515.25	<Collection: 0 items>	
145	SM-63	6,530.25	6,525.25	<Collection: 0 items>	
147	SM-174	6,537.81	6,532.81	<Collection: 0 items>	
148	SM-159	6,540.94	6,514.86	<Collection: 0 items>	
149	SM-189	6,545.31	6,538.99	<Collection: 0 items>	
150	SM-161	6,550.39	6,545.39	<Collection: 0 items>	
151	SM-19	6,554.09	6,546.49	<Collection: 0 items>	
152	SM-20	6,555.52	6,546.85	<Collection: 1 item>	
153	SM-167	6,556.15	6,551.15	<Collection: 0 items>	
154	SM-29	6,560.26	6,550.79	<Collection: 0 items>	
155	SM-28	6,560.00	6,549.89	<Collection: 0 items>	
156	SM-168	6,559.97	6,554.97	<Collection: 0 items>	
157	SM-27	6,562.38	6,549.02	<Collection: 1 item>	
158	SM-26	6,563.79	6,548.06	<Collection: 1 item>	
159	SM-24	6,564.90	6,553.14	<Collection: 1 item>	
160	SM-25	6,565.73	6,559.26	<Collection: 1 item>	
161	SM-163	6,564.83	6,559.83	<Collection: 0 items>	
162	SM-172	6,565.83	6,560.83	<Collection: 0 items>	
163	SM-23	6,571.53	6,560.03	<Collection: 0 items>	
164	SM-22	6,573.51	6,564.01	<Collection: 1 item>	
165	SM-21	6,573.56	6,563.56	<Collection: 1 item>	
166	SM-62	6,574.55	6,562.00	<Collection: 0 items>	
167	SM-162	6,575.48	6,570.48	<Collection: 0 items>	
168	SM-201	6,577.44	6,572.51	<Collection: 0 items>	
169	SM-169	6,580.38	6,570.38	<Collection: 0 items>	
170	SM-187	6,581.90	6,575.90	<Collection: 0 items>	

Existing Scenario - ADD
Manhole Table - Time: 0.00 hours

ID	Label	Elevation (Ground) (ft)	Elevation (Invert) (ft)	Sanitary Loads	Notes
171	SM-30	6,588.00	6,579.00	<Collection: 1 item>	
172	SM-188	6,583.38	6,577.24	<Collection: 0 items>	
173	SM-35	6,591.40	6,584.40	<Collection: 1 item>	
174	SM-61	6,586.24	6,581.24	<Collection: 0 items>	
175	SM-36	6,589.00	6,582.00	<Collection: 1 item>	
176	SM-52	6,589.07	6,584.07	<Collection: 0 items>	
177	SM-60	6,589.24	6,584.24	<Collection: 1 item>	
178	SM-186	6,592.25	6,586.18	<Collection: 0 items>	
180	SM-31	6,605.00	6,596.00	<Collection: 1 item>	
181	SM-170	6,600.08	6,585.08	<Collection: 0 items>	
182	SM-53	6,601.62	6,596.62	<Collection: 1 item>	
183	SM-44	6,601.69	6,596.69	<Collection: 1 item>	
184	SM-32	6,610.00	6,601.00	<Collection: 1 item>	
185	SM-43	6,601.87	6,595.69	<Collection: 0 items>	
186	SM-42	6,602.42	6,595.42	<Collection: 0 items>	
187	SM-37	6,602.69	6,597.69	<Collection: 0 items>	
188	SM-38	6,604.44	6,599.44	<Collection: 0 items>	
190	SM-157	6,604.70	6,599.70	<Collection: 0 items>	
191	SM-156	6,604.81	6,598.70	<Collection: 0 items>	
192	SM-41	6,605.52	6,588.83	<Collection: 0 items>	
193	SM-39	6,605.57	6,600.57	<Collection: 1 item>	
194	SM-40	6,605.63	6,587.83	<Collection: 0 items>	
195	SM-150	6,607.80	6,602.80	<Collection: 0 items>	
196	SM-149	6,609.33	6,604.33	<Collection: 0 items>	
197	SM-148	6,609.52	6,606.40	<Collection: 0 items>	
198	SM-158	6,612.90	6,607.90	<Collection: 0 items>	
199	SM-200	6,613.42	6,608.08	<Collection: 0 items>	
200	SM-171	6,614.78	6,597.70	<Collection: 0 items>	
201	SM-147	6,617.28	6,611.23	<Collection: 0 items>	
202	SM-33	6,621.00	6,611.80	<Collection: 1 item>	
203	SM-127	6,617.61	6,612.61	<Collection: 1 item>	
204	SM-126	6,619.53	6,614.53	<Collection: 0 items>	
205	SM-59	6,619.88	6,614.88	<Collection: 1 item>	
206	SM-55	6,620.77	6,615.77	<Collection: 1 item>	
208	SM-56	6,621.80	6,616.80	<Collection: 1 item>	
209	SM-125	6,625.53	6,620.53	<Collection: 1 item>	
210	SM-146	6,627.59	6,622.59	<Collection: 0 items>	
211	SM-210	6,628.23	6,623.20	<Collection: 1 item>	
212	SM-48	6,630.93	6,625.93	<Collection: 1 item>	
213	SM-34	6,625.50	6,612.81	<Collection: 1 item>	
214	SM-184	6,633.93	6,627.39	<Collection: 0 items>	
215	SM-58	6,634.15	6,629.15	<Collection: 0 items>	
216	SM-185	6,644.15	6,638.16	<Collection: 0 items>	
217	SM-128	6,643.18	6,638.18	<Collection: 0 items>	
218	SM-54	6,650.00	6,628.00	<Collection: 1 item>	
220	SM-57	6,652.55	6,647.55	<Collection: 1 item>	

Existing Scenario - ADD
Manhole Table - Time: 0.00 hours

ID	Label	Elevation (Ground) (ft)	Elevation (Invert) (ft)	Sanitary Loads	Notes
221	SM-144	6,653.77	6,648.77	<Collection: 0 items>	includes town hall
223	SM-199	6,657.71	6,652.63	<Collection: 0 items>	
225	SM-145	6,659.54	6,654.54	<Collection: 1 item>	
226	SM-49	6,661.36	6,656.36	<Collection: 1 item>	
230	SM-197	6,675.72	6,670.42	<Collection: 0 items>	
231	SM-132	6,675.90	6,670.90	<Collection: 1 item>	
232	SM-183	6,677.68	6,671.42	<Collection: 0 items>	
233	SM-131	6,676.67	6,671.67	<Collection: 1 item>	
234	SM-130	6,680.84	6,675.84	<Collection: 1 item>	
236	SM-143	6,683.84	6,678.84	<Collection: 1 item>	
237	SM-47	6,685.50	6,680.50	<Collection: 0 items>	
238	SM-140	6,696.20	6,691.20	<Collection: 0 items>	
239	SM-138	6,700.08	6,693.73	<Collection: 0 items>	
240	SM-50	6,701.06	6,680.06	<Collection: 0 items>	
241	SM-129	6,709.36	6,704.36	<Collection: 1 item>	
242	SM-51	6,713.53	6,708.53	<Collection: 0 items>	
243	SM-198	6,714.82	6,709.82	<Collection: 0 items>	
244	SM-142	6,718.84	6,713.84	<Collection: 0 items>	
245	SM-137	6,721.62	6,715.54	<Collection: 0 items>	
246	SM-141	6,726.29	6,721.29	<Collection: 0 items>	
247	SM-134	6,729.25	6,724.25	<Collection: 0 items>	
248	SM-139	6,730.42	6,725.42	<Collection: 0 items>	
249	SM-133	6,734.22	6,723.22	<Collection: 1 item>	
250	SM-135	6,738.16	6,733.16	<Collection: 0 items>	
251	SM-114	6,747.33	6,742.33	<Collection: 0 items>	
252	SM-115	6,750.25	6,739.25	<Collection: 1 item>	
253	SM-136	6,754.75	6,745.75	<Collection: 1 item>	
254	SM-113	6,754.91	6,749.91	<Collection: 0 items>	
255	SM-89	6,758.60	6,747.26	<Collection: 1 item>	
256	SM-90	6,760.32	6,747.75	<Collection: 0 items>	
258	SM-92	6,761.47	6,756.47	<Collection: 1 item>	
259	SM-94	6,763.19	6,758.19	<Collection: 0 items>	
260	SM-91	6,764.81	6,754.68	<Collection: 0 items>	
261	SM-95	6,765.05	6,760.05	<Collection: 1 item>	
262	SM-93	6,768.28	6,757.85	<Collection: 1 item>	
263	SM-112	6,769.00	6,764.00	<Collection: 1 item>	
264	SM-77	6,771.27	6,766.27	<Collection: 1 item>	
265	SM-76	6,774.67	6,769.67	<Collection: 0 items>	
267	SM-88	6,781.55	6,768.59	<Collection: 1 item>	
268	SM-87	6,786.30	6,775.16	<Collection: 1 item>	
269	SM-86	6,787.51	6,775.71	<Collection: 1 item>	
270	SM-85	6,788.37	6,776.40	<Collection: 1 item>	
271	SM-84	6,790.05	6,777.66	<Collection: 1 item>	
272	SM-72	6,795.96	6,784.36	<Collection: 0 items>	
273	SM-75	6,796.91	6,786.73	<Collection: 0 items>	
274	SM-78	6,797.48	6,787.38	<Collection: 1 item>	

Existing Scenario - ADD
Manhole Table - Time: 0.00 hours

ID	Label	Elevation (Ground) (ft)	Elevation (Invert) (ft)	Sanitary Loads	Notes
275	SM-73	6,797.53	6,786.19	<Collection: 0 items>	
276	SM-74	6,799.35	6,789.07	<Collection: 0 items>	
277	SM-79	6,800.00	6,788.03	<Collection: 1 item>	
278	SM-96	6,802.56	6,792.26	<Collection: 1 item>	
281	SM-102	6,803.63	6,798.63	<Collection: 1 item>	
282	SM-97	6,805.64	6,795.27	<Collection: 1 item>	
284	SM-196	6,821.60	6,794.95	<Collection: 0 items>	
285	SM-109	6,825.27	6,820.27	<Collection: 1 item>	
286	SM-80	6,826.40	6,814.53	<Collection: 0 items>	
287	SM-81	6,826.78	6,815.05	<Collection: 1 item>	
288	SM-108	6,833.54	6,828.54	<Collection: 0 items>	
289	SM-111	6,837.67	6,832.67	<Collection: 0 items>	
290	SM-110	6,841.21	6,836.21	<Collection: 1 item>	
291	SM-98	6,842.27	6,832.98	<Collection: 1 item>	
292	SM-100	6,845.48	6,834.46	<Collection: 1 item>	
293	SM-99	6,846.30	6,834.02	<Collection: 1 item>	
294	SM-107	6,852.77	6,847.77	<Collection: 1 item>	
295	SM-195	6,869.20	6,836.26	<Collection: 0 items>	
296	SM-105	6,870.03	6,865.03	<Collection: 1 item>	
297	SM-103	6,910.19	6,905.19	<Collection: 0 items>	
298	SM-106	6,912.36	6,907.36	<Collection: 0 items>	
299	SM-104	6,914.83	6,909.83	<Collection: 0 items>	
413	MH-2	6,586.91	6,581.91	<Collection: 0 items>	
547	MH-4	6,669.91	6,664.91	<Collection: 0 items>	
609	SM-248	6,351.82	6,336.31	<Collection: 0 items>	
626	MH-6	6,708.18	6,700.00	<Collection: 0 items>	
1152	MH-7	6,590.71	6,585.71	<Collection: 1 item>	
1154	MH-8	6,589.00	6,564.51	<Collection: 1 item>	
1187	MH-31	6,362.87	6,356.85	<Collection: 1 item>	
1188	MH-32	6,365.03	6,355.47	<Collection: 1 item>	
1189	MH-33	6,373.07	6,366.89	<Collection: 1 item>	
1190	MH-34	6,365.71	6,359.52	<Collection: 0 items>	
1191	MH-35	6,372.08	6,364.00	<Collection: 0 items>	
1192	MH-36	6,373.51	6,367.56	<Collection: 1 item>	
1193	MH-37	6,383.75	6,375.02	<Collection: 0 items>	
1194	MH-38	6,383.93	6,376.06	<Collection: 0 items>	
1195	MH-39	6,410.39	6,403.62	<Collection: 0 items>	
1197	MH-41	6,428.72	6,422.99	<Collection: 0 items>	
1198	MH-42	6,439.20	6,433.62	<Collection: 0 items>	
1199	MH-43	6,444.13	6,438.38	<Collection: 0 items>	
1200	MH-44	6,449.75	6,445.58	<Collection: 0 items>	
1206	MH-9	6,415.89	6,410.89	<Collection: 0 items>	
1207	MH-10	6,434.99	6,429.99	<Collection: 0 items>	
1208	MH-11	6,446.84	6,441.84	<Collection: 0 items>	
1217	MH-12	6,353.73	6,340.00	<Collection: 0 items>	
1450	MH-26	6,782.92	6,752.86	<Collection: 0 items>	

Existing Scenario - ADD
Manhole Table - Time: 0.00 hours

ID	Label	Elevation (Ground) (ft)	Elevation (Invert) (ft)	Sanitary Loads	Notes
1452	MH-27	6,532.47	6,507.18	<Collection: 0 items>	
1455	MH-29	6,299.57	6,266.00	<Collection: 1 item>	
1464	MH-33	6,508.43	6,483.43	<Collection: 0 items>	
1465	MH-34	6,428.00	6,423.00	<Collection: 0 items>	
1470	MH-36	6,342.82	6,320.00	<Collection: 0 items>	
1471	MH-37	6,372.00	6,350.00	<Collection: 0 items>	
1476	MH-39	6,375.00	6,336.00	<Collection: 0 items>	
1494	MH-46	6,327.60	6,322.60	<Collection: 0 items>	
1497	MH-47	6,417.00	6,326.00	<Collection: 0 items>	
1518	MH-50	6,594.83	6,589.83	<Collection: 0 items>	
Flow (Local In) (gal/min)	Flow (Total Out) (gal/min)	Hydraulic Grade Line (In) (ft)	Hydraulic Grade Line (Out) (ft)	Is Active?	
(N/A)	(N/A)	(N/A)	(N/A)	False	
(N/A)	(N/A)	(N/A)	(N/A)	False	
(N/A)	(N/A)	(N/A)	(N/A)	False	
(N/A)	(N/A)	(N/A)	(N/A)	False	
(N/A)	(N/A)	(N/A)	(N/A)	False	
(N/A)	(N/A)	(N/A)	(N/A)	False	
(N/A)	(N/A)	(N/A)	(N/A)	False	
(N/A)	(N/A)	(N/A)	(N/A)	False	
(N/A)	(N/A)	(N/A)	(N/A)	False	
(N/A)	(N/A)	(N/A)	(N/A)	False	
(N/A)	(N/A)	(N/A)	(N/A)	False	
(N/A)	(N/A)	(N/A)	(N/A)	False	
(N/A)	(N/A)	(N/A)	(N/A)	False	
(N/A)	(N/A)	(N/A)	(N/A)	False	
(N/A)	(N/A)	(N/A)	(N/A)	False	
(N/A)	(N/A)	(N/A)	(N/A)	False	
(N/A)	(N/A)	(N/A)	(N/A)	False	
(N/A)	(N/A)	(N/A)	(N/A)	False	
(N/A)	(N/A)	(N/A)	(N/A)	False	
(N/A)	(N/A)	(N/A)	(N/A)	False	
(N/A)	(N/A)	(N/A)	(N/A)	False	
(N/A)	(N/A)	(N/A)	(N/A)	False	
0.00	3.36	6,263.34	6,263.14	True	
0.00	3.36	6,265.21	6,264.81	True	
0.00	0.00	6,282.38	6,282.38	True	
(N/A)	3.36	6,289.04	6,288.74	True	
0.00	3.36	6,294.34	6,294.04	True	
0.00	0.00	6,299.27	6,299.27	True	
0.00	0.00	6,302.62	6,302.62	True	
0.00	0.00	6,313.39	6,313.19	True	
(N/A)	41.04	6,303.69	6,303.69	True	

Existing Scenario - ADD
Manhole Table - Time: 0.00 hours

Flow (Local In) (gal/min)	Flow (Total Out) (gal/min)	Hydraulic Grade Line (In) (ft)	Hydraulic Grade Line (Out) (ft)	Is Active?
0.00	41.04	6,305.35	6,305.35	True
0.00	0.00	6,300.50	6,300.50	True
0.00	0.00	6,301.77	6,301.57	True
0.00	394.36	6,300.59	6,299.75	True
0.00	32.64	6,311.39	6,311.39	True
0.00	0.00	6,316.90	6,316.70	True
0.00	32.64	6,312.11	6,312.11	True
0.00	0.00	6,308.55	6,308.35	True
0.00	0.00	6,304.00	6,303.80	True
51.85	201.74	6,298.95	6,298.95	True
0.00	0.00	6,312.51	6,312.31	True
0.00	0.00	6,307.67	6,307.47	True
0.00	49.44	6,315.95	6,315.95	True
0.00	0.00	6,310.00	6,310.00	True
0.00	0.00	6,310.05	6,309.85	True
0.00	0.00	6,302.51	6,302.31	True
0.00	49.44	6,320.75	6,320.75	True
0.00	3.36	6,307.38	6,306.78	True
0.00	0.00	6,309.33	6,309.13	True
0.00	0.00	6,321.68	6,318.29	True
0.00	0.00	6,307.82	6,307.62	True
0.00	0.00	6,323.07	6,323.07	True
0.00	49.44	6,319.42	6,319.42	True
0.00	0.00	6,310.53	6,310.53	True
0.00	0.00	6,312.09	6,311.89	True
0.00	0.00	6,310.37	6,310.37	True
0.97	3.43	6,324.05	6,323.86	True
0.00	0.00	6,322.48	6,322.18	True
0.00	0.00	6,325.51	6,325.31	True
0.00	3.36	6,323.28	6,323.09	True
0.00	0.00	6,312.12	6,311.92	True
0.00	8.40	6,329.01	6,329.01	True
0.00	0.00	6,327.78	6,327.48	True
0.00	0.00	6,331.03	6,330.83	True
0.00	3.36	6,323.08	6,322.49	True
0.96	1.44	6,326.81	6,326.82	True
0.48	0.48	6,327.63	6,327.63	True
0.99	2.45	6,324.82	6,324.62	True
0.00	0.00	6,311.00	6,310.80	True
0.00	0.00	6,339.85	6,339.65	True
7.68	29.28	6,339.26	6,339.07	True
0.00	0.00	6,336.23	6,336.03	True
0.00	0.00	6,342.19	6,342.19	True
0.00	0.00	6,338.96	6,338.76	True
0.00	0.00	6,341.59	6,341.39	True

Existing Scenario - ADD
Manhole Table - Time: 0.00 hours

Flow (Local In) (gal/min)	Flow (Total Out) (gal/min)	Hydraulic Grade Line (In) (ft)	Hydraulic Grade Line (Out) (ft)	Is Active?
0.00	0.00	6,340.78	6,340.58	True
(N/A)	0.00	6,345.67	6,345.67	True
0.00	32.64	6,340.11	6,340.11	True
7.68	21.60	6,355.24	6,355.06	True
0.00	32.64	6,365.53	6,365.53	True
0.00	32.64	6,368.80	6,368.80	True
0.00	2.41	6,368.21	6,368.01	True
5.76	13.92	6,372.72	6,364.58	True
2.40	2.40	6,374.20	6,374.01	True
8.64	20.16	6,366.21	6,366.06	True
0.00	8.40	6,376.01	6,376.01	True
2.88	2.88	6,378.53	6,378.53	True
0.00	0.00	6,380.00	6,380.00	True
0.00	3.12	6,386.42	6,386.42	True
5.76	5.76	6,386.43	6,386.43	True
2.88	11.52	6,377.73	6,377.51	True
5.76	5.76	6,377.73	6,377.73	True
0.24	29.52	6,392.04	6,392.04	True
0.00	29.28	6,403.91	6,403.91	True
0.00	3.12	6,412.86	6,412.86	True
(N/A)	8.40	6,425.41	6,425.41	True
0.00	3.12	6,438.76	6,438.76	True
0.00	29.28	6,439.12	6,439.12	True
0.00	3.12	6,449.61	6,449.61	True
0.00	3.12	6,447.61	6,447.61	True
0.00	3.12	6,445.41	6,445.41	True
0.00	3.12	6,462.38	6,462.38	True
0.00	7.68	6,464.81	6,464.79	True
0.00	7.68	6,465.93	6,465.93	True
0.00	7.68	6,474.31	6,474.31	True
0.00	29.28	6,488.70	6,488.70	True
0.00	0.00	6,497.16	6,497.16	True
0.48	7.68	6,485.27	6,485.27	True
(N/A)	7.20	6,490.72	6,490.54	True
0.00	0.00	6,492.19	6,492.19	True
0.00	29.28	6,508.45	6,508.45	True
0.00	29.28	6,513.61	6,513.61	True
0.00	3.12	6,515.42	6,515.42	True
0.00	29.28	6,515.75	6,515.76	True
0.48	6.96	6,512.04	6,512.02	True
0.48	6.48	6,512.92	6,512.92	True
0.24	6.00	6,514.13	6,514.12	True
(N/A)	5.76	6,515.28	6,515.28	True
0.00	0.00	6,525.25	6,525.25	True
(N/A)	0.00	6,532.81	6,532.81	True

Existing Scenario - ADD
Manhole Table - Time: 0.00 hours

Flow (Local In) (gal/min)	Flow (Total Out) (gal/min)	Hydraulic Grade Line (In) (ft)	Hydraulic Grade Line (Out) (ft)	Is Active?
0.00	0.00	6,514.86	6,514.86	True
0.00	3.12	6,539.00	6,539.00	True
0.00	0.00	6,545.39	6,545.39	True
0.00	5.76	6,548.71	6,546.51	True
0.48	1.44	6,547.05	6,546.86	True
0.00	0.00	6,551.15	6,551.15	True
0.00	4.55	6,552.80	6,550.80	True
0.00	4.57	6,550.10	6,549.91	True
0.00	0.00	6,554.97	6,554.97	True
0.49	4.95	6,549.23	6,549.04	True
0.67	10.32	6,548.47	6,548.07	True
1.65	4.56	6,553.34	6,553.15	True
0.76	2.29	6,559.27	6,559.27	True
0.00	0.00	6,559.83	6,559.83	True
0.00	0.00	6,560.83	6,560.83	True
0.00	0.48	6,560.23	6,560.03	True
0.48	0.48	6,564.01	6,564.01	True
0.96	0.96	6,563.56	6,563.56	True
0.00	29.28	6,562.01	6,562.01	True
0.00	0.00	6,570.48	6,570.48	True
0.00	29.28	6,572.52	6,572.52	True
0.00	0.00	6,570.38	6,570.38	True
0.00	3.12	6,575.90	6,575.91	True
1.44	4.35	6,579.51	6,579.01	True
0.00	0.00	6,577.24	6,577.24	True
0.48	0.96	6,584.60	6,584.40	True
0.00	0.24	6,581.24	6,581.24	True
0.48	1.44	6,582.21	6,582.01	True
0.00	2.40	6,584.08	6,584.08	True
0.24	0.24	6,584.24	6,584.24	True
0.00	3.12	6,586.19	6,586.19	True
0.48	2.40	6,596.02	6,596.02	True
0.00	0.00	6,585.08	6,585.08	True
0.72	2.40	6,596.63	6,596.63	True
0.48	24.00	6,596.70	6,596.70	True
0.48	1.92	6,601.21	6,601.01	True
0.00	24.00	6,595.71	6,595.71	True
0.00	24.00	6,595.43	6,595.43	True
0.00	23.52	6,597.73	6,597.73	True
0.00	23.52	6,599.51	6,599.51	True
0.00	0.00	6,599.70	6,599.70	True
0.00	0.00	6,598.70	6,598.70	True
0.00	24.00	6,588.83	6,588.84	True
0.96	2.64	6,600.58	6,600.58	True
0.00	26.64	6,587.85	6,587.85	True

Existing Scenario - ADD
Manhole Table - Time: 0.00 hours

Flow (Local In) (gal/min)	Flow (Total Out) (gal/min)	Hydraulic Grade Line (In) (ft)	Hydraulic Grade Line (Out) (ft)	Is Active?
0.00	23.52	6,602.86	6,602.86	True
0.00	23.52	6,604.35	6,604.35	True
0.00	0.00	6,606.40	6,606.40	True
(N/A)	0.00	6,607.90	6,607.90	True
0.00	4.32	6,608.09	6,608.09	True
0.00	0.00	6,597.70	6,597.70	True
0.00	23.52	6,611.24	6,611.24	True
0.96	1.44	6,612.00	6,611.81	True
0.24	3.12	6,612.62	6,612.62	True
0.00	0.48	6,614.53	6,614.53	True
0.24	0.96	6,614.88	6,614.88	True
0.24	0.72	6,615.77	6,615.77	True
0.48	0.48	6,616.80	6,616.80	True
0.48	0.48	6,620.53	6,620.53	True
0.00	23.52	6,622.60	6,622.60	True
0.24	0.24	6,623.20	6,623.20	True
1.20	1.68	6,625.94	6,625.94	True
0.48	0.48	6,612.81	6,612.81	True
0.00	2.16	6,627.40	6,627.40	True
0.00	0.00	6,629.15	6,629.15	True
0.00	0.00	6,638.16	6,638.16	True
0.00	2.16	6,638.19	6,638.19	True
0.48	0.72	6,628.00	6,628.00	True
0.24	0.24	6,647.55	6,647.55	True
0.00	0.00	6,648.77	6,648.77	True
(N/A)	4.32	6,652.65	6,652.64	True
0.48	23.52	6,654.55	6,654.55	True
0.48	0.48	6,656.36	6,656.36	True
0.00	1.20	6,670.42	6,670.42	True
0.24	2.16	6,670.91	6,670.91	True
0.00	0.00	6,671.42	6,671.42	True
0.24	1.92	6,671.68	6,671.68	True
0.96	1.68	6,675.84	6,675.85	True
1.44	23.04	6,678.85	6,678.85	True
0.00	0.00	6,680.50	6,680.50	True
0.00	0.00	6,691.20	6,691.20	True
0.00	0.00	6,693.73	6,693.73	True
0.00	0.00	6,680.06	6,680.06	True
0.48	0.72	6,704.36	6,704.36	True
0.00	0.00	6,708.53	6,708.53	True
0.00	1.20	6,709.82	6,709.82	True
0.00	21.60	6,713.88	6,713.88	True
0.00	0.00	6,715.54	6,715.54	True
0.00	21.60	6,721.33	6,721.33	True
0.00	0.00	6,724.25	6,724.25	True

Existing Scenario - ADD
Manhole Table - Time: 0.00 hours

Flow (Local In) (gal/min)	Flow (Total Out) (gal/min)	Hydraulic Grade Line (In) (ft)	Hydraulic Grade Line (Out) (ft)	Is Active?
0.00	21.60	6,725.46	6,725.46	True
0.24	0.24	6,723.22	6,723.22	True
0.00	21.60	6,733.17	6,733.17	True
0.00	3.22	6,742.34	6,742.34	True
0.96	1.20	6,739.25	6,739.25	True
0.48	21.60	6,745.79	6,745.79	True
0.00	3.22	6,749.92	6,749.92	True
1.73	21.12	6,747.47	6,747.33	True
0.00	5.31	6,748.05	6,747.77	True
0.96	13.92	6,756.48	6,756.48	True
0.00	12.96	6,758.20	6,758.20	True
0.00	5.28	6,755.06	6,754.69	True
0.48	12.96	6,760.06	6,760.06	True
0.24	5.28	6,758.22	6,757.86	True
0.24	3.22	6,764.01	6,764.01	True
0.96	12.48	6,766.28	6,766.28	True
0.00	11.52	6,769.68	6,769.68	True
0.72	5.04	6,768.92	6,768.60	True
0.96	4.32	6,775.37	6,775.17	True
0.96	3.36	6,775.92	6,775.73	True
1.92	2.40	6,776.60	6,776.41	True
0.48	0.48	6,777.66	6,777.66	True
0.00	11.52	6,784.97	6,784.37	True
0.00	7.44	6,786.94	6,786.77	True
0.59	8.13	6,787.59	6,787.43	True
0.00	11.52	6,786.50	6,786.20	True
0.00	7.13	6,789.35	6,789.08	True
2.05	8.42	6,788.24	6,788.07	True
0.45	7.41	6,792.57	6,792.27	True
0.48	2.98	6,798.64	6,798.64	True
2.50	6.95	6,795.65	6,795.28	True
0.00	0.00	6,794.95	6,794.95	True
0.10	2.26	6,820.29	6,820.29	True
0.06	5.72	6,814.74	6,814.54	True
2.37	5.73	6,815.08	6,815.08	True
0.00	0.24	6,828.54	6,828.54	True
0.00	0.24	6,832.67	6,832.67	True
0.00	0.96	6,836.21	6,836.21	True
1.98	3.42	6,833.19	6,832.99	True
0.48	0.48	6,834.46	6,834.46	True
0.96	1.44	6,834.22	6,834.03	True
0.24	0.24	6,847.77	6,847.77	True
0.00	0.00	6,836.26	6,836.26	True
0.24	0.24	6,865.03	6,865.03	True
0.00	0.00	6,905.19	6,905.19	True

Existing Scenario - ADD
Manhole Table - Time: 0.00 hours

Flow (Local In) (gal/min)	Flow (Total Out) (gal/min)	Hydraulic Grade Line (In) (ft)	Hydraulic Grade Line (Out) (ft)	Is Active?
0.00	0.00	6,907.36	6,907.36	True
0.00	0.00	6,909.83	6,909.83	True
0.00	29.04	6,581.92	6,581.92	True
0.00	4.32	6,664.93	6,664.93	True
0.00	0.00	6,336.31	6,336.31	True
0.00	1.20	6,700.00	6,700.00	True
0.48	0.48	6,585.71	6,585.71	True
0.48	0.48	6,584.00	6,584.00	True
0.49	1.86	6,357.06	6,356.86	True
0.00	1.92	6,356.31	6,356.12	True
0.93	1.41	6,367.09	6,366.90	True
0.00	0.96	6,359.73	6,359.52	True
0.00	0.00	6,364.20	6,364.00	True
0.48	0.48	6,367.76	6,367.56	True
0.00	0.00	6,375.02	6,375.02	True
0.00	0.00	6,376.26	6,376.06	True
0.00	0.00	6,403.62	6,403.62	True
0.00	0.00	6,423.19	6,422.99	True
0.00	0.00	6,433.82	6,433.62	True
(N/A)	0.00	6,438.58	6,438.38	True
0.00	0.00	6,445.58	6,445.58	True
0.00	0.00	6,410.89	6,410.89	True
0.00	0.00	6,429.99	6,429.99	True
0.00	0.00	6,441.84	6,441.84	True
(N/A)	2.00	6,347.19	6,346.99	True
0.00	0.00	6,752.86	6,752.86	True
0.00	0.00	6,507.18	6,507.18	True
1.20	1.20	6,316.43	6,316.43	True
0.00	0.00	6,503.43	6,483.43	True
0.00	0.00	6,423.00	6,423.00	True
0.00	49.44	6,328.10	6,328.10	True
0.00	20.16	6,364.01	6,364.01	True
0.00	20.16	6,365.07	6,365.04	True
0.00	49.44	6,322.73	6,322.75	True
0.00	0.00	6,412.00	6,412.00	True
0.00	0.00	6,589.83	6,589.83	True

Property Connection Table - Time: 0.00 hours

ID	Label	Base Flow (gal/min)	Notes
1462	PC-196	1.20	Public works building
642	M-10	0.48	exist
643	M-100	0.24	exist
644	M-101	0.24	exist
645	M-102	0.24	exist

Existing Scenario - ADD

Property Connection Table - Time: 0.00 hours

ID	Label	Base Flow (gal/min)	Notes
646	M-103	0.24	exist
647	M-104	0.24	exist
648	M-105	0.24	exist
649	M-106	0.24	exist
650	M-107	0.24	exist
651	M-108	0.24	exist
652	M-109	0.24	exist
653	M-11	0.24	exist
654	M-110	0.24	exist
655	M-111	0.24	exist
656	M-112	0.24	exist
657	M-113	0.24	exist
658	M-114	0.24	exist
659	M-115	0.24	exist
660	M-116	0.24	exist
661	M-117	0.24	exist
662	M-118	0.24	exist
663	M-119	0.24	exist
665	M-120	0.24	exist
666	M-121	0.24	exist
667	M-122	0.24	exist
668	M-123	0.24	exist
669	M-124	0.24	exist
670	M-125	0.24	exist
671	M-126	0.24	exist
672	M-127	0.24	exist
674	M-129	0.24	exist
676	M-130	0.24	exist
677	M-131	0.24	exist
678	M-132	0.24	exist
679	M-133	0.24	exist
680	M-134	0.24	exist
681	M-135	0.24	exist
682	M-136	0.24	exist
683	M-137	0.24	exist
685	M-139	0.24	exist
687	M-140	0.24	exist
688	M-141	0.24	exist
689	M-142	0.24	exist
690	M-143	0.24	exist
691	M-144	0.24	exist
692	M-145	0.24	exist
693	M-146	0.24	exist
694	M-147	0.24	exist
695	M-148	0.24	exist
696	M-149	0.24	exist
698	M-150	0.24	exist

Existing Scenario - ADD

Property Connection Table - Time: 0.00 hours

ID	Label	Base Flow (gal/min)	Notes
699	M-151	0.24	exist
700	M-152	0.24	exist
702	M-154	0.24	exist
703	M-155	0.24	exist
704	M-156	0.24	exist
705	M-157	0.24	exist
706	M-158	0.24	exist
707	M-159	0.24	exist
708	M-16	0.24	exist
709	M-160	0.24	exist
710	M-161	0.24	exist
712	M-163	0.24	exist
713	M-164	0.24	exist
714	M-165	0.24	exist
715	M-166	0.24	exist
716	M-167	0.24	exist
717	M-168	0.24	exist
718	M-169	0.24	exist
719	M-17	0.24	exist
720	M-170	0.24	exist
721	M-171	0.24	exist
722	M-172	0.24	exist
723	M-173	0.24	exist
724	M-174	0.24	exist
725	M-175	0.24	exist
726	M-176	0.24	exist
727	M-177	0.24	exist
728	M-178	0.24	exist
729	M-179	0.24	exist
730	M-18	0.24	exist
732	M-181	2.40	exist
734	M-183	2.88	exist
736	M-185	2.88	exist
738	M-187	2.40	exist
739	M-188	2.68	exist
743	M-191	2.88	exist
744	M-192	0.24	exist
745	M-193	0.24	exist
747	M-195	0.24	exist
753	M-20	0.24	exist
754	M-200	0.24	exist
755	M-201	0.24	exist
763	M-209	0.24	exist
764	M-21	0.24	exist
771	M-216	0.24	exist
782	M-226	0.24	exist
794	M-237	0.24	exist

Existing Scenario - ADD

Property Connection Table - Time: 0.00 hours

ID	Label	Base Flow (gal/min)	Notes
795	M-238	0.24	exist
797	M-24	0.24	exist
804	M-246	0.24	exist
810	M-251	0.24	exist
813	M-254	0.24	exist
815	M-256	0.24	exist
818	M-259	0.24	exist
819	M-26	0.24	exist
830	M-27	0.24	exist
897	M-33	0.24	exist
908	M-34	0.24	exist
919	M-35	0.24	exist
930	M-36	0.24	exist
963	M-39	0.24	exist
975	M-40	0.24	exist
985	M-409	0.24	exist
986	M-41	0.24	exist
987	M-410	0.24	exist
988	M-411	0.24	exist
989	M-412	0.24	exist
990	M-413	0.24	exist
991	M-414	0.24	exist
992	M-415	0.24	exist
993	M-416	0.24	exist
994	M-417	0.24	exist
995	M-418	0.24	exist
996	M-419	0.24	exist
997	M-42	0.24	exist
998	M-420	0.24	exist
999	M-421	0.24	exist
1000	M-422	0.24	exist
1008	M-43	0.24	exist
1019	M-44	0.24	exist
1030	M-45	0.24	exist
1039	M-46	0.24	exist
1040	M-47	0.24	exist
1041	M-48	0.24	exist
1042	M-49	0.24	exist
1043	M-5	0.48	exist
1044	M-50	0.24	exist
1045	M-51	0.24	exist
1046	M-52	0.24	exist
1047	M-53	0.24	exist
1048	M-54	0.24	exist
1049	M-55	0.24	exist
1050	M-56	0.24	exist
1051	M-57	0.24	exist

Existing Scenario - ADD

Property Connection Table - Time: 0.00 hours

ID	Label	Base Flow (gal/min)	Notes
1052	M-58	0.24	exist
1053	M-59	0.24	exist
1054	M-6	0.24	exist
1055	M-60	0.24	exist
1056	M-61	0.24	exist
1057	M-62	0.24	exist
1058	M-63	0.24	exist
1061	M-66	0.24	exist
1062	M-67	0.24	exist
1063	M-68	0.24	exist
1064	M-69	0.24	exist
1066	M-70	0.24	exist
1067	M-71	0.24	exist
1068	M-72	0.24	exist
1069	M-73	0.24	exist
1070	M-74	0.24	exist
1071	M-75	0.24	exist
1072	M-76	0.24	exist
1073	M-77	0.24	exist
1074	M-78	0.24	exist
1075	M-79	0.24	exist
1076	M-8	0.48	exist
1077	M-80	0.24	exist
1078	M-81	0.24	exist
1080	M-83	0.24	exist
1082	M-85	0.24	exist
1083	M-86	0.24	exist
1084	M-87	0.24	exist
1085	M-88	0.24	exist
1086	M-89	0.24	exist
1087	M-9	0.48	exist
1094	M-96	0.24	exist
1096	M-98	0.24	exist
1097	M-99	0.24	exist
1277	PC-24	0.48	exist
1278	PC-25	0.48	exist
1285	PC-32	0.48	exist
1296	PC-43	0.48	exist
1321	PC-68	2.88	exist
1323	PC-70	2.88	exist
1325	PC-72	2.88	exist
1326	PC-73	2.88	exist
1328	PC-75	2.88	exist
1329	PC-76	2.88	exist
1330	PC-77	2.88	exist
1334	PC-81	2.40	exist
1335	PC-82	2.68	exist

Existing Scenario - ADD

Property Connection Table - Time: 0.00 hours

ID	Label	Base Flow (gal/min)	Notes
1338	PC-85	2.40	exist
1339	PC-86	2.40	exist
1394	PC-141	0.24	exist
1395	PC-142	0.24	exist
1396	PC-143	0.24	exist
1417	PC-164	0.24	exist
1418	PC-165	0.24	exist
1430	PC-177	0.24	exist
1434	PC-181	0.24	exist
1435	PC-182	0.24	exist
1445	PC-192	0.24	exist
1448	PC-195	0.24	exist
1536	PC-213	0.24	exist
1540	PC-217	0.24	exist
1543	PC-220	0.24	exist
1544	PC-221	0.24	exist
1545	PC-222	0.24	exist
1578	PC-224	0.24	exist
1579	PC-225	0.24	exist
1582	PC-228	0.24	exist
1584	PC-230	0.24	exist
1585	PC-231	0.24	exist
1586	PC-232	0.24	exist
1587	PC-233	0.24	exist
1588	PC-234	0.24	exist
1589	PC-235	0.24	exist
1590	PC-236	0.24	exist
1594	PC-240	0.24	exist
1601	PC-247	0.24	exist
1602	PC-248	0.24	exist
1603	PC-249	0.24	exist
1604	PC-250	0.24	exist
1605	PC-251	0.24	exist
1606	PC-252	0.24	exist
1607	PC-253	0.24	exist
1608	PC-254	0.24	exist
1616	PC-262	0.24	exist
1617	PC-263	0.24	exist
1618	PC-264	0.24	exist
1623	PC-269	0.24	exist
1629	PC-275	0.24	exist
1638	PC-284	0.24	exist
1665	PC-311	0.24	exist
1666	PC-312	0.24	exist
1667	PC-313	0.24	exist
1668	PC-314	0.24	exist
1669	PC-315	0.24	exist

Existing Scenario - ADD

Property Connection Table - Time: 0.00 hours

ID	Label	Base Flow (gal/min)	Notes
1671	PC-317	0.24	exist
1680	PC-326	0.24	exist
1682	PC-328	0.24	exist
664	M-12	0.24	future
675	M-13	0.24	future
686	M-14	0.24	future
697	M-15	0.24	future
741	M-19	0.24	future
746	M-194	0.24	future
748	M-196	0.24	future
749	M-197	0.24	future
750	M-198	0.24	future
751	M-199	0.24	future
752	M-2	0.24	future
756	M-202	0.24	future
757	M-203	0.24	future
758	M-204	0.24	future
759	M-205	0.24	future
760	M-206	0.24	future
761	M-207	0.24	future
762	M-208	0.24	future
765	M-210	0.24	future
766	M-211	0.24	future
767	M-212	0.24	future
768	M-213	0.24	future
769	M-214	0.24	future
770	M-215	0.24	future
772	M-217	0.24	future
775	M-22	0.24	future
776	M-220	0.24	future
778	M-222	0.24	future
780	M-224	0.24	future
783	M-227	0.24	future
785	M-229	0.24	future
786	M-23	0.24	future
787	M-230	0.24	future
790	M-233	0.24	future
792	M-235	0.24	future
793	M-236	0.24	future
796	M-239	0.24	future
798	M-240	0.24	future
799	M-241	0.24	future
800	M-242	0.24	future
801	M-243	0.24	future
802	M-244	0.24	future
803	M-245	0.24	future
805	M-247	0.24	future

Existing Scenario - ADD

Property Connection Table - Time: 0.00 hours

ID	Label	Base Flow (gal/min)	Notes
806	M-248	0.24	future
807	M-249	0.24	future
808	M-25	0.24	future
809	M-250	0.24	future
811	M-252	0.24	future
812	M-253	0.24	future
814	M-255	0.24	future
816	M-257	0.24	future
817	M-258	0.24	future
820	M-260	0.24	future
821	M-261	0.24	future
822	M-262	0.24	future
823	M-263	0.24	future
824	M-264	0.24	future
825	M-265	0.24	future
826	M-266	0.24	future
827	M-267	0.24	future
828	M-268	0.24	future
829	M-269	0.24	future
831	M-270	0.24	future
832	M-271	0.24	future
833	M-272	0.24	future
834	M-273	0.24	future
835	M-274	0.24	future
836	M-275	0.24	future
837	M-276	0.24	future
838	M-277	0.24	future
839	M-278	0.24	future
840	M-279	0.24	future
841	M-28	0.24	future
842	M-280	0.24	future
843	M-281	0.24	future
844	M-282	0.24	future
845	M-283	0.24	future
846	M-284	0.24	future
847	M-285	0.24	future
848	M-286	0.24	future
849	M-287	0.24	future
850	M-288	0.24	future
851	M-289	0.24	future
852	M-29	0.24	future
853	M-290	0.24	future
854	M-291	0.24	future
855	M-292	0.24	future
856	M-293	0.24	future
857	M-294	0.24	future
858	M-295	0.24	future

Existing Scenario - ADD

Property Connection Table - Time: 0.00 hours

ID	Label	Base Flow (gal/min)	Notes
859	M-296	0.24	future
860	M-297	0.24	future
861	M-298	0.24	future
862	M-299	0.24	future
863	M-3	0.48	future
865	M-300	0.24	future
866	M-301	0.24	future
867	M-302	0.24	future
868	M-303	0.24	future
869	M-304	0.24	future
870	M-305	0.24	future
871	M-306	0.24	future
872	M-307	0.24	future
873	M-308	0.24	future
874	M-309	0.24	future
876	M-310	0.24	future
877	M-311	0.24	future
878	M-312	0.24	future
879	M-313	0.24	future
880	M-314	0.24	future
881	M-315	0.24	future
882	M-316	0.24	future
883	M-317	0.24	future
884	M-318	0.24	future
885	M-319	0.24	future
887	M-320	0.24	future
888	M-321	0.24	future
889	M-322	0.24	future
890	M-323	0.24	future
891	M-324	0.24	future
892	M-325	0.24	future
893	M-326	0.24	future
894	M-327	0.24	future
895	M-328	0.24	future
896	M-329	0.24	future
898	M-330	0.24	future
899	M-331	0.24	future
900	M-332	0.24	future
901	M-333	0.24	future
902	M-334	0.24	future
903	M-335	0.24	future
904	M-336	0.24	future
905	M-337	0.24	future
906	M-338	0.24	future
907	M-339	0.24	future
909	M-340	0.24	future
910	M-341	0.24	future

Existing Scenario - ADD

Property Connection Table - Time: 0.00 hours

ID	Label	Base Flow (gal/min)	Notes
911	M-342	0.24	future
912	M-343	0.24	future
913	M-344	0.24	future
914	M-345	0.24	future
915	M-346	0.24	future
916	M-347	0.24	future
917	M-348	0.24	future
918	M-349	0.24	future
920	M-350	0.24	future
921	M-351	0.24	future
922	M-352	0.24	future
923	M-353	0.24	future
924	M-354	0.24	future
925	M-355	0.24	future
926	M-356	0.24	future
927	M-357	0.24	future
928	M-358	0.24	future
929	M-359	0.24	future
931	M-360	0.24	future
932	M-361	0.24	future
934	M-363	0.24	future
935	M-364	0.24	future
936	M-365	0.24	future
938	M-367	0.24	future
939	M-368	0.24	future
940	M-369	0.24	future
941	M-37	0.24	future
942	M-370	0.24	future
943	M-371	0.24	future
944	M-372	0.24	future
945	M-373	0.24	future
946	M-374	0.24	future
947	M-375	0.24	future
948	M-376	0.24	future
949	M-377	0.24	future
950	M-378	0.24	future
951	M-379	0.24	future
952	M-38	0.24	future
953	M-380	0.24	future
954	M-381	0.24	future
955	M-382	0.24	future
956	M-383	0.24	future
957	M-384	0.24	future
958	M-385	0.24	future
959	M-386	0.24	future
961	M-388	0.24	future
962	M-389	0.24	future

Existing Scenario - ADD

Property Connection Table - Time: 0.00 hours

ID	Label	Base Flow (gal/min)	Notes
965	M-391	0.24	future
966	M-392	0.24	future
967	M-393	0.24	future
968	M-394	0.24	future
969	M-395	0.24	future
970	M-396	0.24	future
971	M-397	0.24	future
972	M-398	0.24	future
973	M-399	0.24	future
974	M-4	0.24	future
976	M-400	0.24	future
977	M-401	0.24	future
978	M-402	0.24	future
979	M-403	0.24	future
980	M-404	0.24	future
981	M-405	0.24	future
982	M-406	0.24	future
983	M-407	0.24	future
984	M-408	0.24	future
1001	M-423	0.24	future
1002	M-424	0.24	future
1004	M-426	0.24	future
1005	M-427	0.24	future
1006	M-428	0.24	future
1007	M-429	0.24	future
1009	M-430	0.24	future
1010	M-431	0.24	future
1011	M-432	0.24	future
1012	M-433	0.24	future
1013	M-434	0.24	future
1014	M-435	0.24	future
1015	M-436	0.24	future
1016	M-437	0.24	future
1017	M-438	0.24	future
1018	M-439	0.24	future
1020	M-440	0.24	future
1021	M-441	0.24	future
1022	M-442	0.24	future
1023	M-443	0.24	future
1024	M-444	0.24	future
1025	M-445	0.24	future
1026	M-446	0.24	future
1027	M-447	0.24	future
1028	M-448	0.24	future
1029	M-449	0.24	future
1031	M-450	0.24	future
1032	M-451	0.24	future

Existing Scenario - ADD

Property Connection Table - Time: 0.00 hours

ID	Label	Base Flow (gal/min)	Notes
1033	M-452	0.24	future
1034	M-453	0.24	future
1035	M-454	0.24	future
1036	M-455	0.24	future
1037	M-456	0.24	future
1038	M-457	0.24	future
1059	M-64	0.24	future
1060	M-65	0.24	future
1065	M-7	0.24	future
1079	M-82	0.48	future
1081	M-84	0.24	future
1088	M-90	0.24	future
1089	M-91	0.24	future
1090	M-92	0.24	future
1091	M-93	0.24	future
1092	M-94	0.48	future
1093	M-95	0.48	future
1095	M-97	0.24	future
1261	PC-8	0.48	future
1262	PC-9	0.48	future
1263	PC-10	0.48	future
1264	PC-11	0.48	future
1272	PC-19	0.48	future
1273	PC-20	0.48	future
1274	PC-21	0.48	future
1275	PC-22	0.48	future
1276	PC-23	0.48	future
1279	PC-26	0.48	future
1280	PC-27	0.48	future
1281	PC-28	0.48	future
1282	PC-29	0.48	future
1283	PC-30	0.48	future
1284	PC-31	0.48	future
1286	PC-33	0.48	future
1287	PC-34	0.48	future
1288	PC-35	0.48	future
1289	PC-36	0.48	future
1290	PC-37	0.48	future
1291	PC-38	0.48	future
1292	PC-39	0.48	future
1293	PC-40	0.48	future
1294	PC-41	0.48	future
1295	PC-42	0.48	future
1297	PC-44	0.48	future
1298	PC-45	0.48	future
1299	PC-46	0.48	future
1300	PC-47	0.48	future

Existing Scenario - ADD

Property Connection Table - Time: 0.00 hours

ID	Label	Base Flow (gal/min)	Notes
1301	PC-48	0.48	future
1302	PC-49	0.48	future
1303	PC-50	0.48	future
1304	PC-51	0.48	future
1305	PC-52	0.48	future
1306	PC-53	0.48	future
1307	PC-54	0.48	future
1308	PC-55	0.48	future
1309	PC-56	0.48	future
1310	PC-57	0.48	future
1311	PC-58	0.48	future
1312	PC-59	0.48	future
1313	PC-60	0.48	future
1314	PC-61	0.48	future
1315	PC-62	0.48	future
1316	PC-63	0.48	future
1317	PC-64	0.48	future
1318	PC-65	0.48	future
1319	PC-66	0.48	future
1341	PC-88	0.24	future
1342	PC-89	0.24	future
1343	PC-90	0.24	future
1344	PC-91	0.24	future
1345	PC-92	0.24	future
1347	PC-94	0.24	future
1348	PC-95	0.24	future
1349	PC-96	0.24	future
1350	PC-97	0.24	future
1351	PC-98	0.24	future
1353	PC-100	0.24	future
1355	PC-102	0.24	future
1356	PC-103	0.24	future
1357	PC-104	0.24	future
1358	PC-105	0.24	future
1359	PC-106	0.24	future
1361	PC-108	0.24	future
1362	PC-109	0.24	future
1363	PC-110	0.24	future
1364	PC-111	0.24	future
1365	PC-112	0.24	future
1366	PC-113	0.24	future
1367	PC-114	0.24	future
1368	PC-115	0.24	future
1369	PC-116	0.24	future
1370	PC-117	0.24	future
1371	PC-118	0.24	future
1372	PC-119	0.24	future

Existing Scenario - ADD

Property Connection Table - Time: 0.00 hours

ID	Label	Base Flow (gal/min)	Notes
1373	PC-120	0.24	future
1374	PC-121	0.24	future
1375	PC-122	0.24	future
1376	PC-123	0.24	future
1377	PC-124	0.24	future
1378	PC-125	0.24	future
1379	PC-126	0.24	future
1380	PC-127	0.24	future
1381	PC-128	0.24	future
1382	PC-129	0.24	future
1383	PC-130	0.24	future
1384	PC-131	0.24	future
1385	PC-132	0.24	future
1386	PC-133	0.24	future
1387	PC-134	0.24	future
1388	PC-135	0.24	future
1389	PC-136	0.24	future
1390	PC-137	0.24	future
1391	PC-138	0.24	future
1392	PC-139	0.24	future
1393	PC-140	0.24	future
1397	PC-144	0.24	future
1398	PC-145	0.24	future
1399	PC-146	0.24	future
1400	PC-147	0.24	future
1401	PC-148	0.24	future
1402	PC-149	0.24	future
1403	PC-150	0.24	future
1404	PC-151	0.24	future
1405	PC-152	0.24	future
1406	PC-153	0.24	future
1407	PC-154	0.24	future
1408	PC-155	0.24	future
1409	PC-156	0.24	future
1410	PC-157	0.24	future
1411	PC-158	0.24	future
1412	PC-159	0.24	future
1413	PC-160	0.24	future
1414	PC-161	0.24	future
1415	PC-162	0.24	future
1416	PC-163	0.24	future
1419	PC-166	0.24	future
1420	PC-167	0.24	future
1421	PC-168	0.24	future
1422	PC-169	0.24	future
1423	PC-170	0.24	future
1424	PC-171	0.24	future

Existing Scenario - ADD

Property Connection Table - Time: 0.00 hours

ID	Label	Base Flow (gal/min)	Notes
1426	PC-173	0.24	future
1427	PC-174	0.24	future
1428	PC-175	0.24	future
1429	PC-176	0.24	future
1431	PC-178	0.24	future
1433	PC-180	0.24	future
1436	PC-183	0.24	future
1437	PC-184	0.24	future
1438	PC-185	0.24	future
1439	PC-186	0.24	future
1440	PC-187	0.24	future
1441	PC-188	0.24	future
1442	PC-189	0.24	future
1443	PC-190	0.24	future
1444	PC-191	0.24	future
1446	PC-193	0.24	future
1447	PC-194	0.24	future
1520	PC-197	0.24	future
1521	PC-198	0.24	future
1522	PC-199	0.24	future
1523	PC-200	0.24	future
1524	PC-201	0.24	future
1525	PC-202	0.24	future
1526	PC-203	0.24	future
1527	PC-204	0.24	future
1528	PC-205	0.24	future
1529	PC-206	0.24	future
1530	PC-207	0.24	future
1531	PC-208	0.24	future
1532	PC-209	0.24	future
1533	PC-210	0.24	future
1534	PC-211	0.24	future
1535	PC-212	0.24	future
1537	PC-214	0.24	future
1539	PC-216	0.24	future
1541	PC-218	0.24	future
1542	PC-219	0.24	future
1546	PC-223	0.24	future
1591	PC-237	0.24	future
1592	PC-238	0.24	future
1593	PC-239	0.24	future
1595	PC-241	0.24	future
1596	PC-242	0.24	future
1597	PC-243	0.24	future
1598	PC-244	0.24	future
1599	PC-245	0.24	future
1600	PC-246	0.24	future

Existing Scenario - ADD

Property Connection Table - Time: 0.00 hours

ID	Label	Base Flow (gal/min)	Notes
1609	PC-255	0.24	future
1610	PC-256	0.24	future
1611	PC-257	0.24	future
1612	PC-258	0.24	future
1613	PC-259	0.24	future
1614	PC-260	0.24	future
1615	PC-261	0.24	future
1619	PC-265	0.24	future
1620	PC-266	0.24	future
1621	PC-267	0.24	future
1622	PC-268	0.24	future
1624	PC-270	0.24	future
1625	PC-271	0.24	future
1626	PC-272	0.24	future
1627	PC-273	0.24	future
1628	PC-274	0.24	future
1630	PC-276	0.24	future
1631	PC-277	0.24	future
1632	PC-278	0.24	future
1633	PC-279	0.24	future
1634	PC-280	0.24	future
1635	PC-281	0.24	future
1636	PC-282	0.24	future
1637	PC-283	0.24	future
1639	PC-285	0.24	future
1640	PC-286	0.24	future
1641	PC-287	0.24	future
1642	PC-288	0.24	future
1643	PC-289	0.24	future
1644	PC-290	0.24	future
1645	PC-291	0.24	future
1646	PC-292	0.24	future
1647	PC-293	0.24	future
1648	PC-294	0.24	future
1649	PC-295	0.24	future
1650	PC-296	0.24	future
1651	PC-297	0.24	future
1652	PC-298	0.24	future
1653	PC-299	0.24	future
1654	PC-300	0.24	future
1655	PC-301	0.24	future
1656	PC-302	0.24	future
1657	PC-303	0.24	future
1658	PC-304	0.24	future
1659	PC-305	0.24	future
1660	PC-306	0.24	future
1661	PC-307	0.24	future

Existing Scenario - ADD

Property Connection Table - Time: 0.00 hours

ID	Label	Base Flow (gal/min)	Notes
1662	PC-308	0.24	future
1663	PC-309	0.24	future
1664	PC-310	0.24	future
1670	PC-316	0.24	future
1672	PC-318	0.24	future
1673	PC-319	0.24	future
1674	PC-320	0.24	future
1675	PC-321	0.24	future
1676	PC-322	0.24	future
1677	PC-323	0.24	future
1678	PC-324	0.24	future
1679	PC-325	0.24	future
1681	PC-327	0.24	future
1683	PC-329	0.24	future
1684	PC-330	0.24	future
1685	PC-331	0.24	future
1686	PC-332	0.24	future
1687	PC-333	0.24	future
1688	PC-334	0.24	future
1689	PC-335	0.24	future
1690	PC-336	0.24	future
1691	PC-337	0.24	future
1692	PC-338	0.24	future
1693	PC-339	0.24	future
1694	PC-340	0.24	future
1695	PC-341	0.24	future
1696	PC-342	0.24	future
1698	PC-344	0.24	future
1699	PC-345	0.24	future
1700	PC-346	0.24	future
1701	PC-347	0.24	future
1702	PC-348	0.24	future
1703	PC-349	0.24	future
1704	PC-350	0.24	future
1705	PC-351	0.24	future
1706	PC-352	0.24	future
1707	PC-353	0.24	future
1708	PC-354	0.24	future
1709	PC-355	0.24	future
1710	PC-356	0.24	future
1711	PC-357	0.24	future
1712	PC-358	0.24	future
1713	PC-359	0.24	future
1714	PC-360	0.24	future
1715	PC-361	0.24	future
1716	PC-362	0.24	future
1717	PC-363	0.24	future

Existing Scenario - ADD

Property Connection Table - Time: 0.00 hours

ID	Label	Base Flow (gal/min)	Notes
1718	PC-364	0.24	future
1719	PC-365	0.24	future
1720	PC-366	0.24	future
1721	PC-367	0.24	future
1722	PC-368	0.24	future
1723	PC-369	0.24	future
1724	PC-370	0.24	future
1725	PC-371	0.24	future
1726	PC-372	0.24	future
1727	PC-373	0.24	future
1728	PC-374	0.24	future
1729	PC-375	0.24	future
1730	PC-376	0.24	future
1731	PC-377	0.24	future
1732	PC-378	0.24	future

Transition Table - Time: 0.00 hours

ID	Label	Elevation (Ground) (ft)	Elevation (Invert) (ft)	Flow (Total Out) (gal/min)	Depth (Out) (ft)	Hydraulic Grade Line (Out) (ft)
498	T-1	6,270.00	6,241.00	250.16	136.41	6,377.41
513	T-2	6,309.45	6,297.00	397.34	138.15	6,435.15
1504	T-6	6,354.05	6,338.05	0.00	0.00	6,299.90
Transition Length (ft)						
5.0						
5.0						
5.0						

Outfall Table - Time: 0.00 hours

ID	Label	Elevation (Ground) (ft)	Set Rim to Ground Elevation?	Elevation (Invert) (ft)	Boundary Condition Type	Hydraulic Grade (ft)
624	O-12	6,280.18	True	6,261.57	Free Outfall	6,295.62
Flow (Total Out) (gal/min)						
175.62						

Pump Table - Time: 0.00 hours

ID	Label	Elevation (Ground) (ft)	Elevation (Invert) (ft)	Pump Definition	Elevation (On) (ft)	Elevation (Off) (ft)
497	PMP-1	6,261.00	6,241.00	Replacement Vantage Pump	6,241.50	6,241.00

Existing Scenario - ADD
Pump Table - Time: 0.00 hours

ID	Label	Elevation (Ground) (ft)	Elevation (Invert) (ft)	Pump Definition	Elevation (On) (ft)	Elevation (Off) (ft)
512	PMP-2	6,309.45	6,297.00	Deadman's Gulch Lift Station	6,297.50	6,297.00
1181	PMP-4	0.00	0.00	<None>	0.00	0.00
1182	PMP-5	0.00	0.00	<None>	0.00	0.00
1183	PMP-6	0.00	0.00	<None>	0.00	0.00
1185	PMP-8	0.00	0.00	<None>	0.00	0.00
1501	PMP-9	6,354.05	6,338.05	Deer Waters	6,338.55	6,338.05
Flow (Pump) (gal/min)	Head (Pump) (ft)	Hydraulic Grade (Upstream) (ft)	Hydraulic Grade (Downstream) (ft)	Is Active?	Notes	
249.77	116.68	6,261.00	6,377.68	True	from kent: pumps are pushing out more than they were designed for, pump was designed to handle the existing homes coming here. when the pumps kick on, there are pushing more than what the pump says. between 290-360 gpm	
397.49	137.24	6,298.00	6,435.24	True		
(N/A)	(N/A)	(N/A)	(N/A)	False		
(N/A)	(N/A)	(N/A)	(N/A)	False		
(N/A)	(N/A)	(N/A)	(N/A)	False		
(N/A)	(N/A)	(N/A)	(N/A)	False		
0.00	0.00	6,338.05	6,299.90	True		

Wet Well Table - Time: 0.00 hours

ID	Label	Elevation (Ground) (ft)	Elevation (Maximum) (ft)	Is Active?	Hydraulic Grade (ft)	Depth (Node) (ft)
496	W-1	6,270.00	6,261.00	True	6,261.00	20.00
516	W-4	6,309.45	6,308.00	True	6,298.00	10.00
1498	W-8	6,312.00	6,348.05	True	6,338.05	110.00
Elevation (Initial) (ft)						
6,242.00						
6,298.00						
6,338.05						

Pressure Junction Table - Time: 0.00 hours

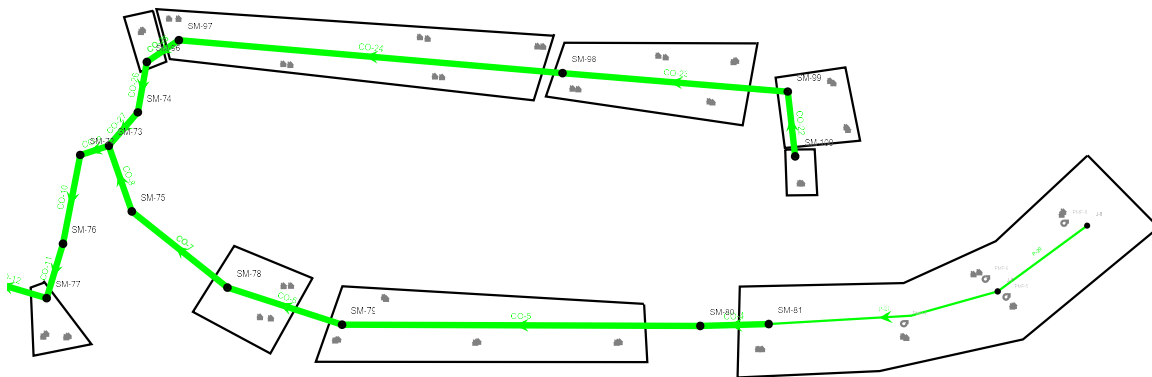
ID	Label	Elevation (Ground) (ft)	Elevation (ft)	Hydraulic Grade (ft)
1157	J-6	6,505.88	6,495.12	6,495.13
1177	J-8	6,828.64	6,795.00	6,815.50

Existing Scenario - ADD

Pressure Junction Table - Time: 0.00 hours

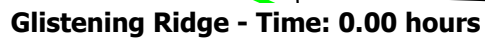
ID	Label	Elevation (Ground) (ft)	Elevation (ft)	Hydraulic Grade (ft)
1178	J-9	6,827.64	6,800.00	6,815.50
1548	J-10	6,272.01	6,265.57	6,299.90
1551	J-11	6,272.01	6,267.01	6,316.42
1561	J-12	6,349.22	6,344.22	6,379.19
1570	J-15	6,326.58	6,317.91	6,411.04

Rustler - Time: 0.00 hours



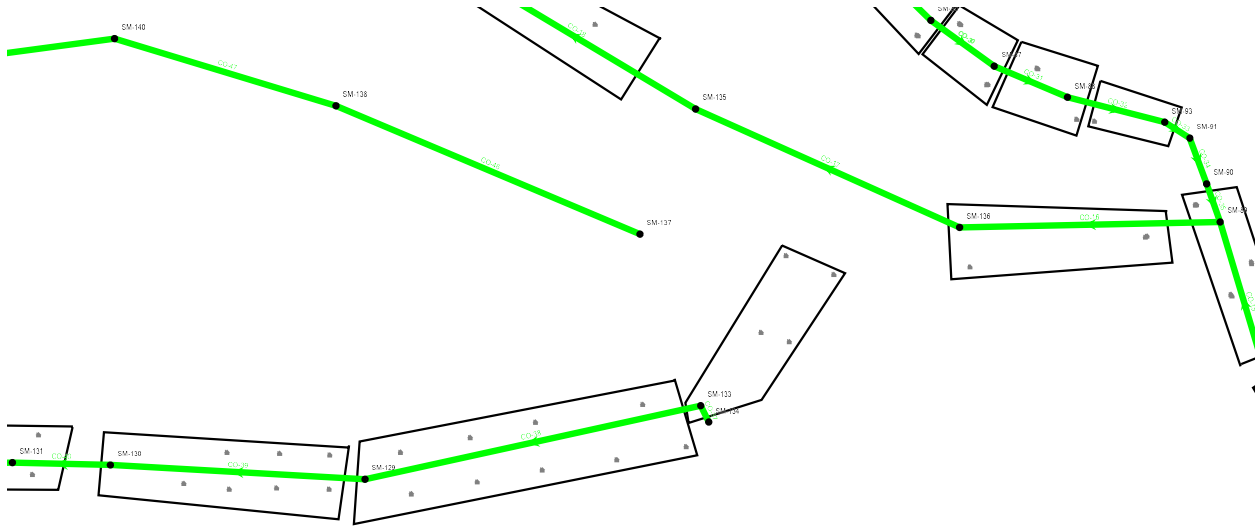
Rustler2 - Time: 0.00 hours

Rustler2 - Time: 0.00 hours

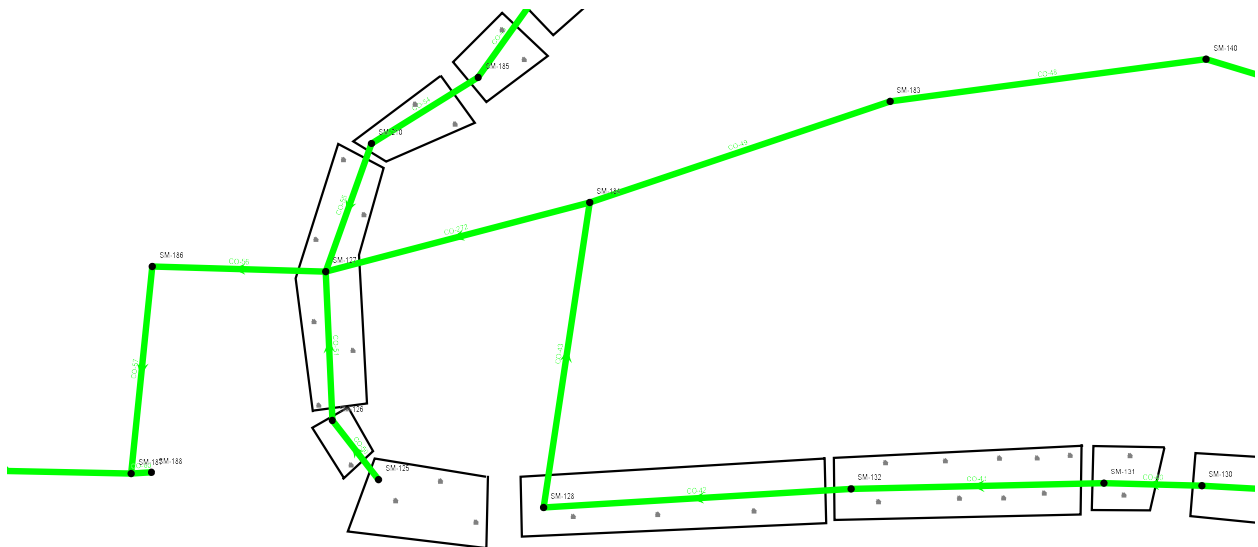


Existing Scenario - ADD

Glistening Ridge - Time: 0.00 hours



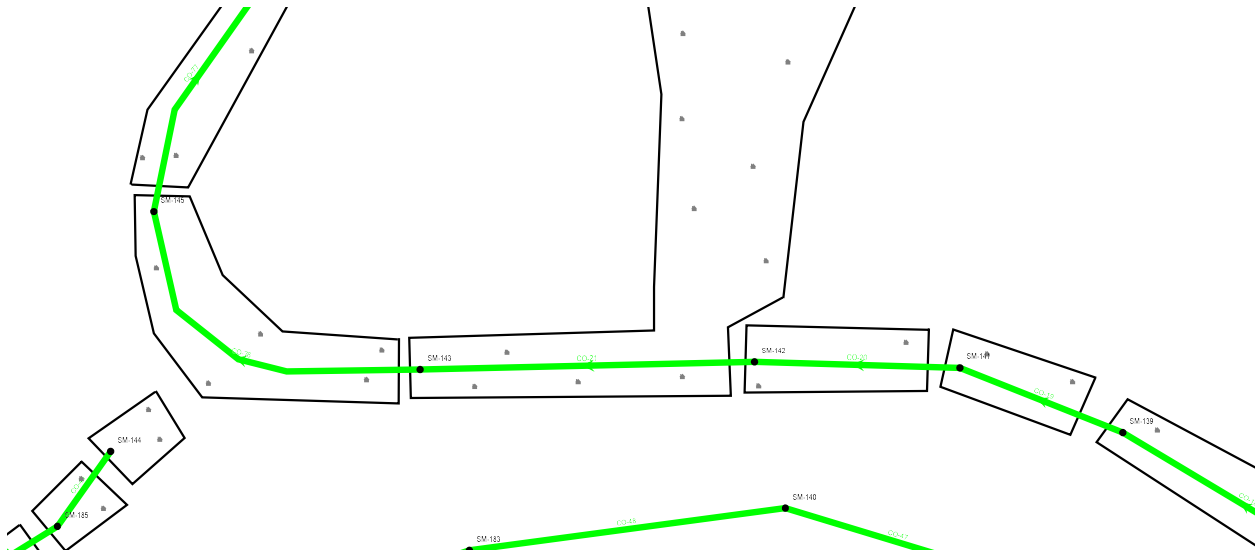
Glistening Ridge2 - Time: 0.00 hours



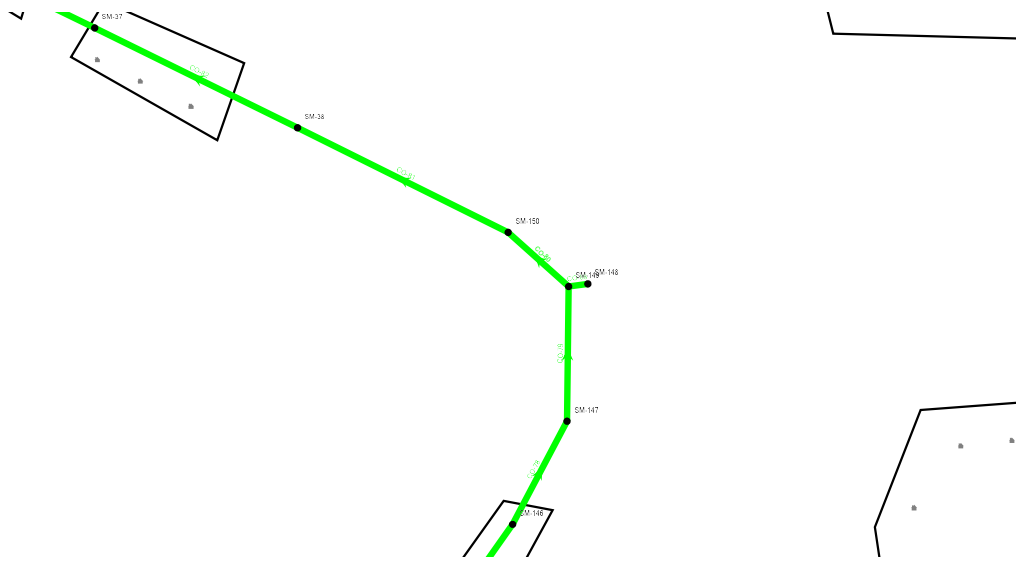
Glistening Ridge 3 - Time: 0.00 hours

Existing Scenario - ADD

Glistening Ridge 3 - Time: 0.00 hours



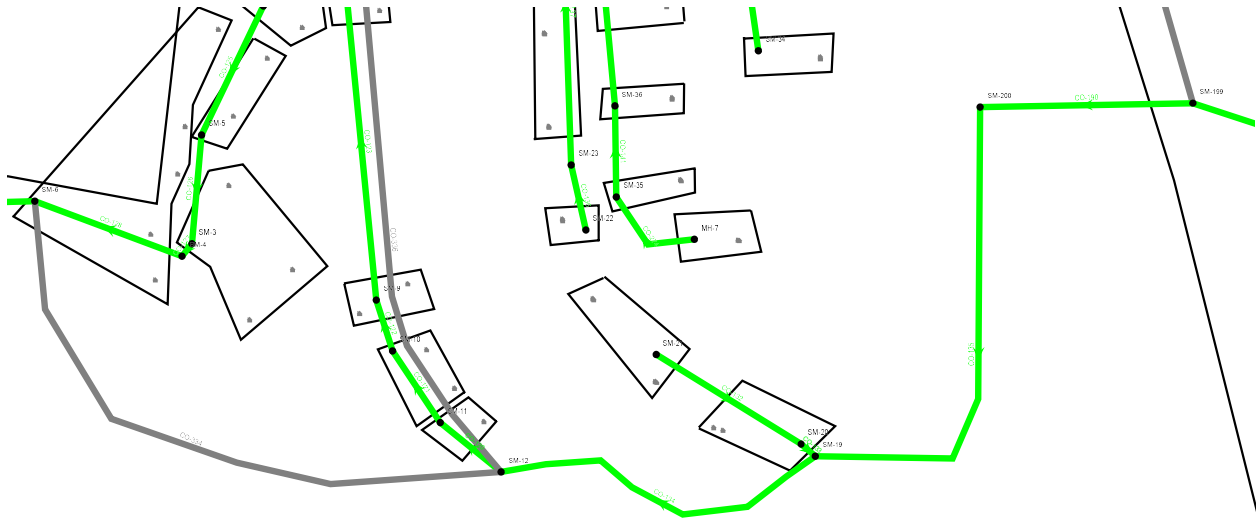
Longview Dr - Time: 0.00 hours



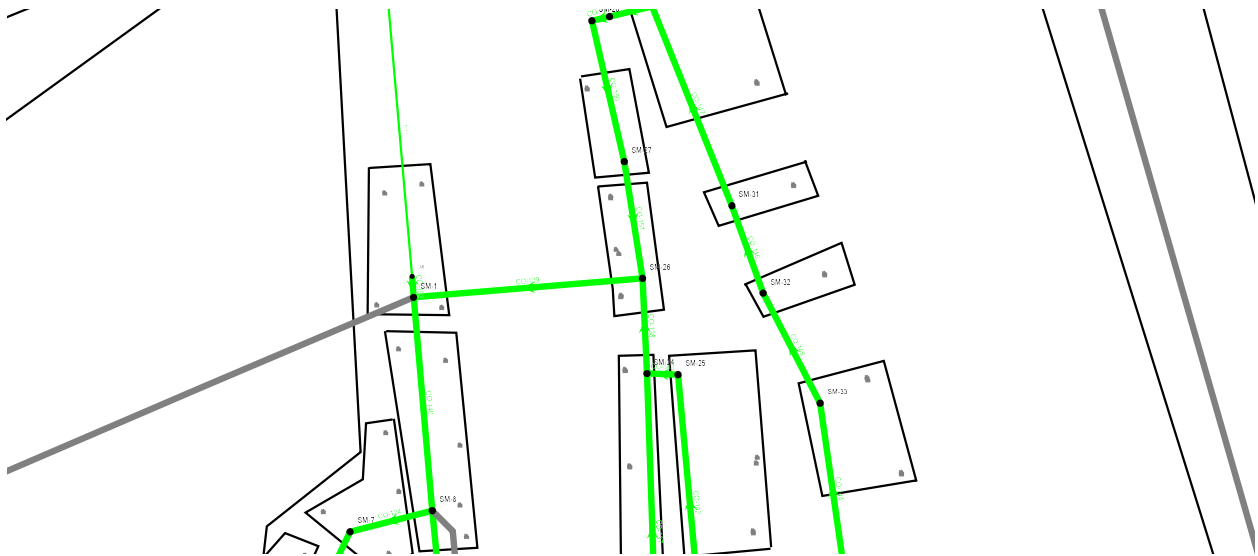
Round-a-bout - Time: 0.00 hours

Existing Scenario - ADD

Silver Sky - Time: 0.00 hours

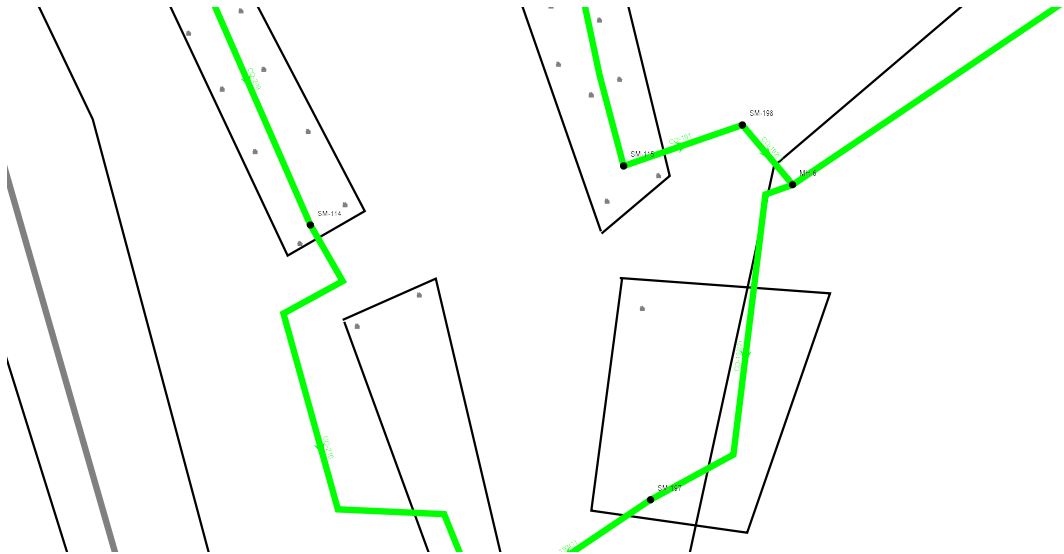


Shoreline Ph 1 - Time: 0.00 hours

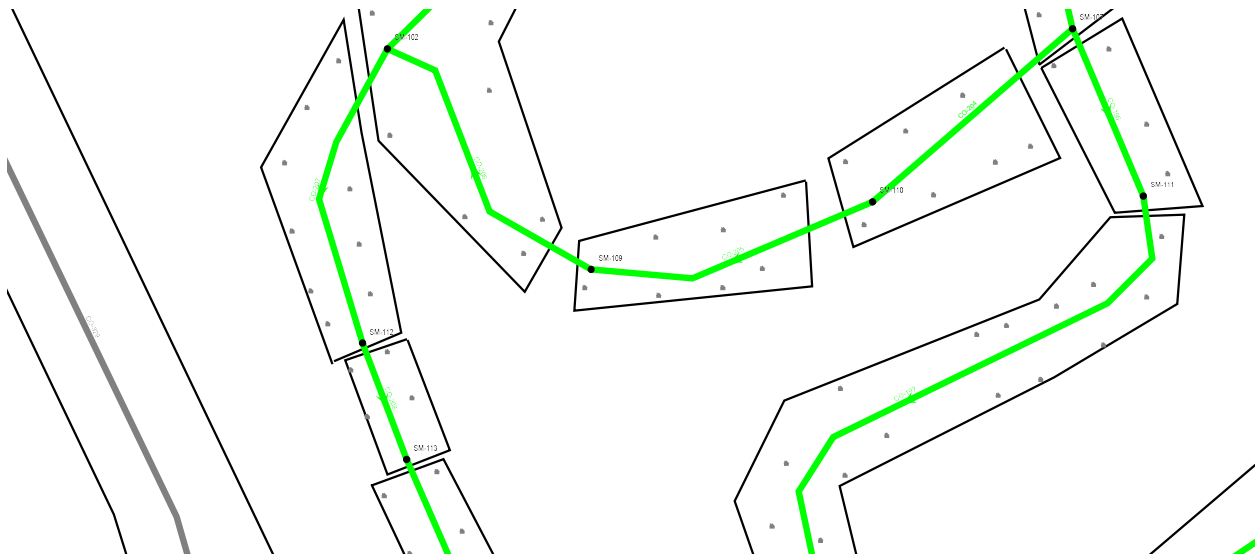


Soaring Hawk - Time: 0.00 hours

Existing Scenario - ADD
Soaring Hawk - Time: 0.00 hours



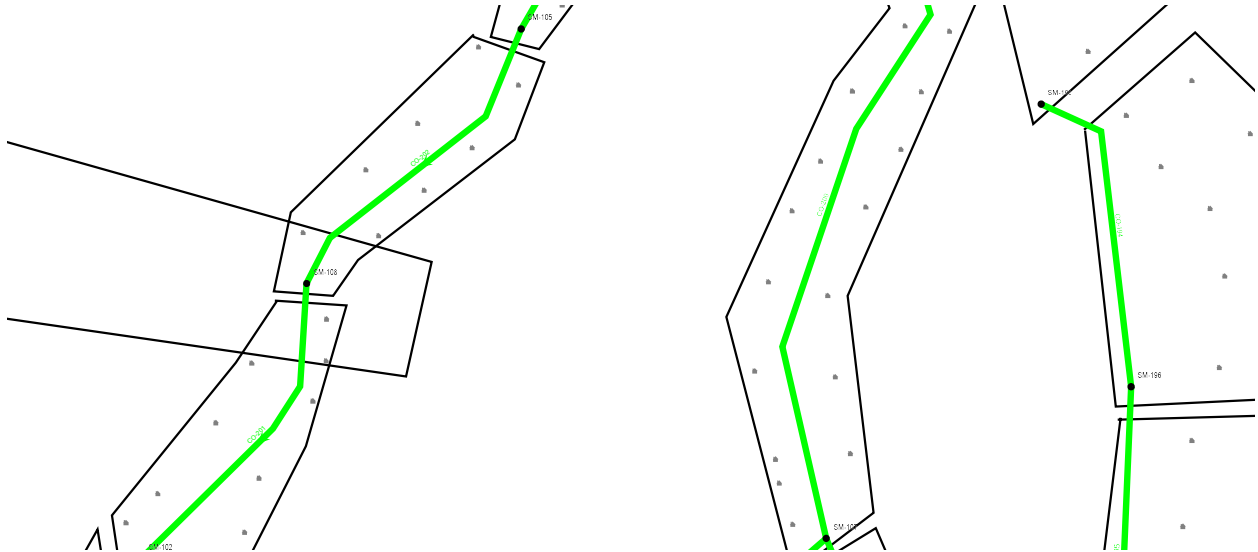
Soaring Hawk2 - Time: 0.00 hours



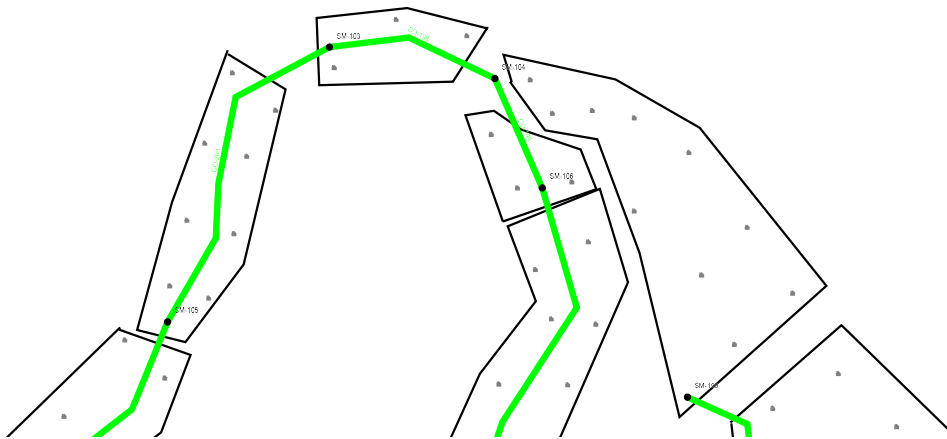
Soaring Hawk 3 - Time: 0.00 hours

Existing Scenario - ADD

Soaring Hawk 3 - Time: 0.00 hours



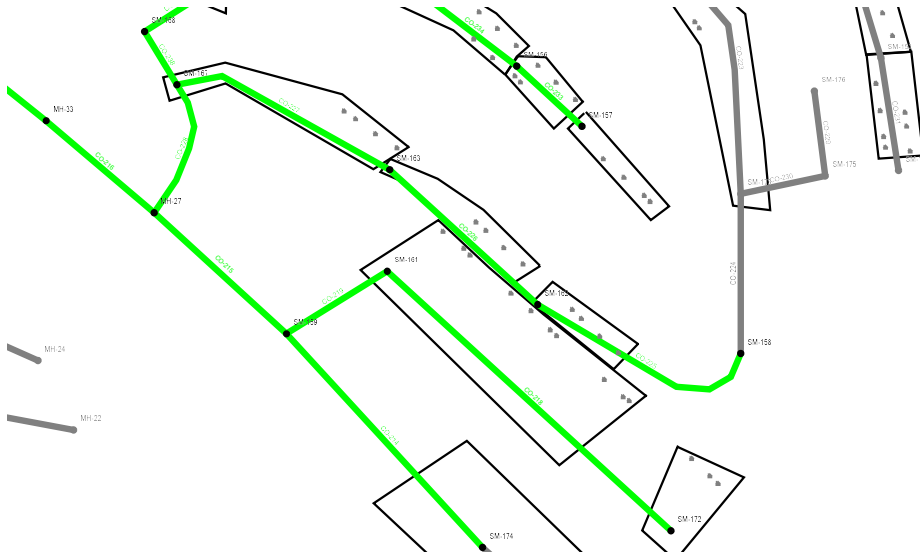
Soaring Hawk 4 - Time: 0.00 hours



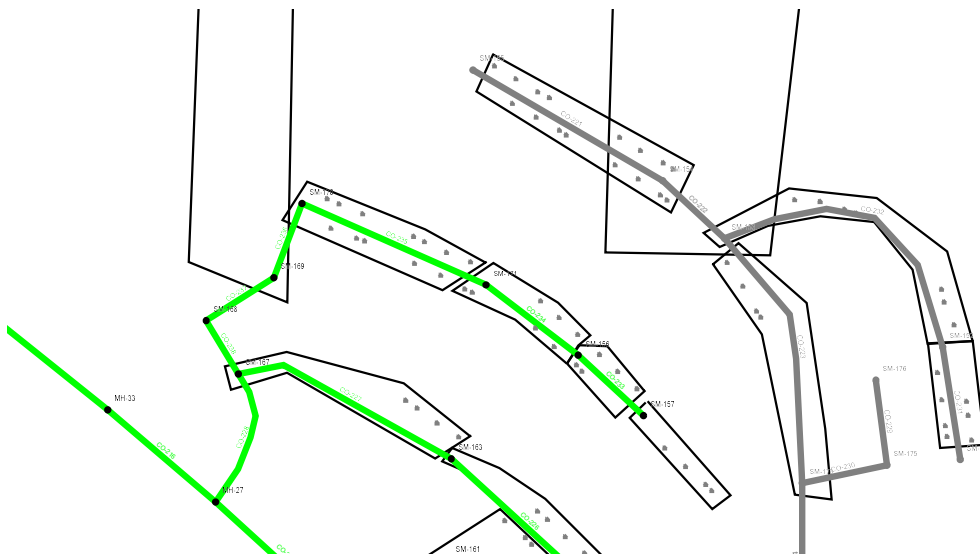
Klaim - Time: 0.00 hours

Existing Scenario - ADD

Klaim - Time: 0.00 hours

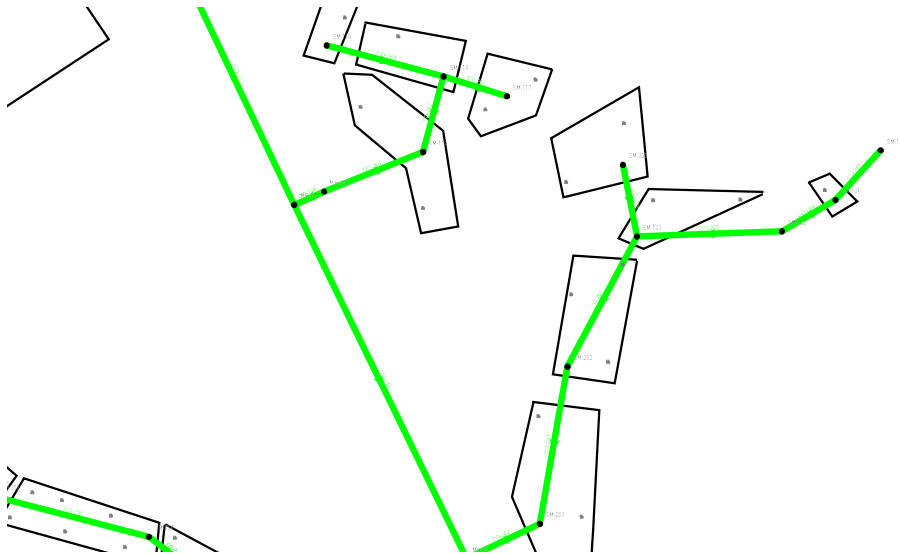


Klaim2 - Time: 0.00 hours

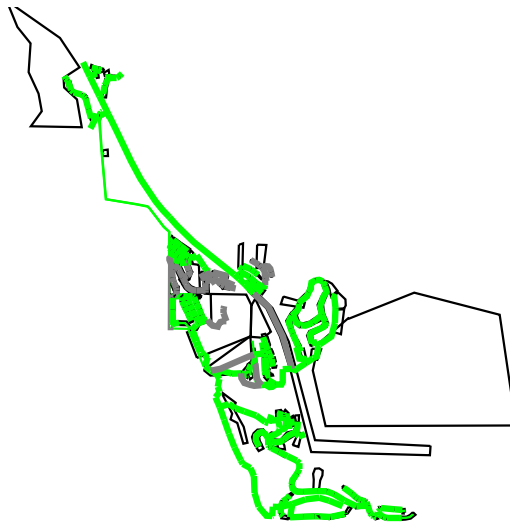


Deer Waters Ph3 - Time: 0.00 hours

Existing Scenario - ADD **Deer Mountain - Time: 0.00 hours**



Existing Scenario - Time: 0.00 hours



Future Conditions-ADD