City of Guelph

Water and Wastewater Servicing Master Plan

Volume II – Model Update, Field Testing, and Calibration Technical Memorandum

February 2023

Guel Making a Difference



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Subject:	Model Update, Field Testing and Calibration TM	Date:	February 9, 2023

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City of Guelph Water and Wastewater Servicing Master Plan

Model Update, Field Testing and Calibration TM

C3 WATER INC.

STANTEC CONSULTING LTD.

February 9, 2023



VERSION	DATE	DESCRIPTION OF REVISIONS	REVISED BY	REVIEWED BY
1	April 20, 2021	Draft #1	Water: Michelle Scott, Luke Butler Wastewater: Tuan Khang Nguyen, Marc Telmosse	Water: Sam Ziemann Wastewater: Dave Eadie City: Colleen Gammie Arun Hindupur Tara Roumeliotis Adam Geldart
2	October 26, 2021	Draft #2	Water: Michelle Scott Wastewater: Marc Telmosse	Water: Sam Ziemann Wastewater: Dave Eadie City: Colleen Gammie Adam Geldart
3	February 9, 2023	Final	Water: Michelle Scott Wastewater: Marc Telmosse	Water: Sam Ziemann Wastewater: Dave Eadie

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DATE: February 9, 2023

SEAL		

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1.0 INTRODUCTION

The City of Guelph's (City) water and wastewater models were updated in support of the Guelph Water and Wastewater Servicing Master Plan (WWSMP) and included updated model demands and system infrastructure to represent existing conditions. This technical memorandum (TM) summarizes the water and wastewater model update process and calibration results.

2.0 WATER MODEL UPDATE

Hydraulic water models consist of a network of pipes, junctions, pumps, valves, tanks, and reservoirs to represent a unique set-up of each drinking water distribution system. The model allows different scenarios to be created to represent operational control changes, demand fluctuations throughout the year, as well as population and water usage growth. This section details how each aspect of the City's water model was updated.

2.1 Background

2.1.1 System Overview

The City's water distribution system is split into three (3) pressure zones and is supplied by groundwater wells. Up to 80% of the City's water supply can be provided by the F.M. Woods Water Treatment Plant (Woods WTP) which is supplied by the Arkell Wells, the Glen Collector, and the Carter Wells via the Arkell Aqueduct. Zone 1 is supplied by the Woods WTP, along with a number of other groundwater wells. Water is supplied from Zone 1 to Zone 2 via the Paisley, Robertson and Clythe pump stations (PS). Water is supplied from Zone 1 to Zone 3 via the Clair PS. The system has three (3) elevated tanks (ETs); Verney and Clair in Zone 1 and Speedvale in Zone 2. In-ground storage reservoirs are located at the Woods and University PSs in Zone 1 and the Paisley and Clythe PSs in Zone 2. A summary of the City's Water system is presented in Table 2-1 and Figure 2-1 below.

Zone	Supply Wells	Pump Stations	Storage
	Arkell Wells (Woods)	Woods	Woods Reservoir
	Glen Collector (Woods)	University	University Reservoir
	Carter Wells (Woods)		Verney ET
	Emma		Clair ET
	Park		
4	Water St.		
I	Dean		
	Membro		
	Queensdale		
	Downey		
	Burkes		
	University		
	Paisley	Paisley	Paisley Reservoir
2	Calico	Clythe	Clythe Reservoir
	Helmar	Robertson	Speedvale ET
3		Clair	

Table 2-1	Water System Summary
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Figure 2-1 System Overview



2.1.2 Water Model History

The City currently uses InfoWater software for hydraulic modelling. The model is utilized for development applications, operational support, project planning and master planning as required.

The Team's understanding of the general history of the model and its development is summarized below:

- The City's first water model was developed in 2001 by KMK Consultants utilizing the existing GIS watermain records, pumping station records, billing data and SCADA Data. The original model was built in WaterCAD and included steady-state (SS) simulation capabilities only.
- In 2008 the model was transferred to InfoWater by Earth Tech Canada and updated to include extended period simulation (EPS). It was utilized in the development of the 2009 Water and Wastewater Servicing Master Plan (WWSMP). The model was also calibrated using available SCADA information.
- The City retained Stantec Consulting in 2010 to complete a model update and calibration that included a significant field-testing program including approximately 40 C-factor tests, 35 fire flow tests and 14 pressure data loggers. The model update also included the addition of raw water facilities, since the previous models had only included the treated water component of the water system, and the addition of complex controls mirroring the SCADA system.
- In 2012 the City was awarded a Showcasing Water Innovation (SWI) grant that included an energy optimization component. The model was updated by C3 Water with pump efficiency curves, energy rate curves and calibrated to match energy consumption in the field with the installation of power monitors on each water facility.
- In 2014 AECOM completed a Water/Wastewater Development Charges Update. As part of this project the model was updated with future infrastructure requirements to meet the projected demands.
- In 2014-15 C3 Water was retained to complete consecutive Zone 2 and Zone 1 Infrastructure Studies to prioritize capital projects recommended as part of the WWSMP and Development Charges update. As part of this project, the water model was updated to merge the planning model that AECOM had utilized with the Operational Model that C3 Water had updated as part of the SWI project. The model merge successfully brought together the operational model with the latest planned infrastructure and most recent demand projections.
- In 2016 C3 Water was retained to complete the Clair Booster Pumping Station & Zone 3 Commissioning Plan which included an update of the future and existing demands in Zone 3. Additionally, the layout of the Clair pump station was updated, and planned Zone 3 linear projects were added to the model.
- In 2016 2017 the model distribution network was updated by C3 Water based on the City's GIS records. Additionally, C-factor testing was completed on small diameter Cast Iron watermains to improve model accuracy in older areas of the City.
- In 2017 C3 Water and Cole Engineering were retained by the City to undertake the Downtown Servicing Study to determine the water servicing needs in support of existing and future development as the City works to implement the Downtown Secondary Plan and the associated draft Downtown Zoning By-law. Linear updates were applied to the City's model to confirm layout, diameter and material of water services in the downtown area to include recent construction.
- In 2018 C3 Water was retained to develop the City's InfoSurge model for transient analysis. This was developed from the existing InfoWater model and included input of parameters such as pipe wave speeds, pump inertia information and surge protection devices.
- 2016 2019: Periodic updates have been made to the model by C3 Water through the ongoing Model Support contract with the Water Services such as updates to controls and pump station layouts.



2.2 Water Model Update

The 2020 update of the model as part of the WWSMP was completed in InfoWater Pro software and included a full refresh of existing conditions demands and elements using 2020 GIS records, 2019/2020 production data, 2019 billing meter records and SCADA. System demands are always changing due to population growth, increased water efficiency, industrial process changes and many other factors. It is beneficial to update model demands periodically to improve accuracy when simulating "existing conditions".

The updated model includes all valves and all hydrants, based on the City's GIS records. In 2020, the City's GIS department undertook an initiative to develop a more comprehensive GIS system which included splitting watermains at valves, hydrant laterals and tees. The updated GIS system has become a much closer representation of the geometric system that is required by the modeling software. By re-building the model based on GIS records, future updates to the system reflected in GIS can more easily be integrated in the model, helping to maintain an up-to-date network. Additionally, by basing the model network on GIS, all valves and all hydrants can be included. Including hydrants in the model improves the accuracy of fire flow analyses. Network valves can be used to simulate operational changes more precisely, such as closing a singular valve, rather than an entire pipe. Valves can also be used to improve calibration to reflect flow restrictions in the network.

2.2.1 Scenarios

The updated extended period simulation (EPS) existing conditions (2019) scenarios were built using 2019 billing meter records and production data.

Demand scenarios were included as follows:

- ADD, average day demand.
- MDD, maximum day demand, includes peak hour demand (PHD).

2.3 Infrastructure Update

The model's distribution system pipes, valves, hydrants, and junctions were updated using the City's latest GIS records. Facilities such as pump stations, wells and storage were imported from the existing model. Facilities have been periodically updated in the existing model through ongoing model support projects.

2.3.1 Distribution Network

The model distribution network was re-built using GIS data for pipes, valves, and hydrants. Now that the model matches closely with GIS (including IDs), the alignment with asset management, capital planning and other internal projects and departments is improved. The following steps were completed for developing the system network:

- 1. GIS data, provided on May 29, 2020 was imported into the Matrado Model Create Tool;
 - a. wMain
 - b. wValve
 - c. wLateralLine
 - d. wHydrant
- 2. The Matrado tool was used to connect all pipes into a geometric network with junctions at the end of each pipe and split pipes at valves and hydrant laterals. Due to the ongoing GIS upgrade project at the City, most pipes were already split at valves and laterals. The tool then converted the network into an EPANET file that was imported into InfoWater.



3. The ID fields from GIS were used as InfoWater element IDs. The model element naming is summarized in Table 2-2 below. The junctions were given default IDs that can be modified if desired by the City.

Table 2-2	Element Naming
-----------	----------------

Element	Element Type	IW Element Name
Pipes	Pipe	P_'WMAINID' + proceeding -1, -2, etc. where pipe splits required
Valves	Valve	V-'WVALVEID'
Hydrants	Junction	H_'HYDRANTID'
Hydrant Laterals	Pipe	HL_'WLATERALID'

- 4. Pipe, node and valve data including material and year of installation were imported from GIS into model elements using tabular join and GIS Gateway tools based on the corresponding GIS IDs.
- 5. Elevations were assigned to model nodes (not including facilities) using available Lidar data and the InfoWater Elevation Extractor tool.
- 6. Connectivity checks were performed including searches for orphan nodes, orphan pipes, nodes in close proximity, parallel pipes, duplicate pipes, pipe split candidates, and crossing/intersecting pipes.
- 7. Pumps stations, well pump houses and storage facilities were imported from the existing model and connected to the distribution watermains from GIS.

2.3.2 Pipes

Pipe information including material and year of installation was transferred from GIS data. Pipes within the distribution system were labelled as "Distribution". All pipes within pump stations and elevated tank inlet/outlets were not included in GIS and were transferred from the previous model and labelled as "Facility". This categorization can be used for creating domains and filtering model results.

C-factors, or roughness values, were applied to all model pipes. C-factors are unitless numbers utilized by the Hazen-Williams hydraulic equation to calculate friction losses within the pipes. C-factors vary based on diameter, material and age of pipe. They can be referenced from literature and tested in the field. C-factors were imported from the existing model which were developed during calibration by Stantec in 2010 and additional field testing completed in 2017. Pipes that have been installed or replaced since the latest model calibration in 2017 were assigned C-factors based on literature values. Hydrant laterals were assigned a default C-factor of 120. Pipe materials in the model are summarized in Table 2-3 below.

Due to the significant C-factor testing that was previously completed on critical pipe sizes and material types, additional C-factor testing was not completed for the 2020 model update. Based on field testing data collected in 2020, the model was found to be suitably calibrated for master planning purposes. Model calibration is discussed further in Section 3.0.

Material	Total Length (m)	% of Total Pipes by Length	
Cast Iron	185,230	33%	
Concrete	20,094	4%	
Copper	2,690	0%	
Cured In Place	2,851	1%	
Ductile Iron	87,607	16%	
Ductile Iron (Cement Lined)	61,419	11%	
Polyethylene (High Density)	1,870	0%	
Polyvinyl Chloride	202,766	36%	

Table 2-3 Summary of Pipe Materials

Roughness values in the model ranged from 46 (small diameter Cast Iron) to 140 (PVC) based on the existing model. In total, there are 20,105 existing pipes in the model, ranging from 25mm to 1050mm in diameter, as shown in Table 2-4 and Figure 2-2. Hydrant laterals account for 3,897 of the pipes.

Diameter	Total Length (m)	% of Total Pipes by Length
100-150	274,696	49%
200-250	132,979	24%
300-350	81,882	14%
400-450	48,783	9%
>450	26,812	5%

Table 2-4Summary of Pipe Diameters

2.3.3 Junctions

The Matrado Ltd. Model Create tool was used to integrate the City's watermain, hydrant and valve layers and make it suitable for modeling purposes. Junction information such as year of installation was assigned based on connected pipe information. Junctions within pump stations or storage facilities were labelled as "Facility" for reporting purposes. Junctions were also used to represent hydrants from GIS. Hydrant node installation years were based on the hydrant shapefile.

Elevations were added to the model junctions using available Lidar data within the distribution system. Elevations within pump stations and other facilities were taken from the existing models which were based on finished floor elevations from as-built drawings. In total, there are 14,696 junctions in the model ranging from 276.5 to 362.4 mASL in elevation as shown in Figure 2-3.







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2.3.4 Valves

The model contains a total of 4,298 valves, 4,243 of which were based on GIS records. Currently, all valves from GIS are modelled as throttle control valves but are typical line valves. Valves that were noted as currently closed zone boundary valves in GIS were closed in the model. All other GIS valves were modelled as fully open. Valve settings may be adjusted in the future to calibrate the model based on field test results.

As this model includes all valves, the Pressure Zone boundaries were delineated by closing the appropriate valves. In the updated model, 41 valves are closed. Additionally, there are several check valves along the pressure zone boundaries which allow flow from Zone 1 into Zones 2 and 3 under emergency conditions. In the model, check valves are modelled as pipes. Network closed valves and check valves are shown in Figure 2-4 below. Check valve locations are as follows:

- 1. Zone 2:
 - a. Speedvale and Knightswood
 - b. Ottawa and Callander
 - c. Waverly and Windsor
 - d. Vancouver and Ottawa
- 2. Zone 3:
 - a. Clair and Gosling
 - b. Poppy, south of Clair
 - c. Clair BPS

Additionally, the model contains flow control valves (FCVs), Pressure Reducing Valves (PRVs) and Pressure Sustaining Valves (PSVs) to set the discharge flow conditions at wells and some PSs to match operational conditions. PS control valves and the Dodds Street valves were imported from the existing model. The Dodds valves were installed to direct more flow from Woods to the Clair ET rather than the Verney ET. At this time, it is understood that the Dodds valves are not operational and are fully open.





Figure 2-4 Closed Valves and Check Valves

2.3.5 Facilities

Model facilities were imported from the existing InfoWater model. Facility model elements are summarized in Table 2-5 below. Facility information such as pump curves, tank curves, flow control valves, etc. were imported from the existing model. Planned future upgrades to pump stations such as F.M. Woods, Paisley and Clythe will be reflected in future scenario facility sets. Facility sets define which model elements are active in each model scenario.

	-
Model Element	Purpose
Pump	Well pumps and high-lift
rump	pumps
Reservoir	Wells
Tonko	Water towers and
TATIKS	reservoirs
Valvoo	Controls valves to set
valves	nume diasharra

Table 2-5	Facility Elements
-----------	-------------------

Pipes

pump discharge Facility piping



2.4 Model Controls

InfoWater utilizes control sets to store information about how the elements are operated throughout an extended period simulation. The initial status of pipes, pumps and valves can be set to control how each element is operating at time 0:00 (midnight). Using the controls, the status and setting of pumps and valves can then be altered throughout the simulation's time steps based on tank levels, pressure values, or clock time similar to how a SCADA system controls the water system operation.

All 2019 (existing) scenarios in the model used the same control set. This is ideal so that changes to the controls are reflected across all scenarios, and the model will have the flexibility to adjust to different demand conditions with the same logic. If operational controls are modified throughout the year, individual control sets can be setup for each scenario.

Pump controls are very important to the operation of the model since they determine how and when water is supplied to the system throughout the simulation. The controls in the model were imported from the existing model and updated to reflect 2020 SCADA data. A general summary of the model pump control logic is summarized in Table 2-6 for pump stations (PS) and high-lift pumps (HLPs) and Table 2-7 for system wells below.

Pressure Zone	Location	Controls Based On		
	Woods HLPs	Verney ET Level		
	Park HLPs	Verney ET Level		
	Dean HLP	On		
le 1	Membro HLP	Off		
Zor	Queensdale HLP	Off		
	University HLPs	On		
	Downey HLPs	Clair ET Level		
	Burkes HLP	Clair ET Level		
	Paisley Zone 1 Inlet	Paisley Reservoir Level		
	Paisley PS	Speedvale ET Level		
N	Robertson PS	Speedvale ET Level		
Je	Clythe Zone 1 Inlet	Clythe Reservoir Level		
Zor	Clythe PS	Clythe Discharge Pressure and Speedvale ET Level		
	Helmar HLP	On		
	Calico HLP	On		
Zone 3	Clair PS	Clair Discharge Pressure		

Table 2-6Pump Station Controls

Pressure Zone	Location	Controls Based On		
	Arkell Wells, Glen			
	Collector & Carter Wells	Woods Reservoir Level		
	Emma Well	Verney ET Level		
	Park Wells	Park Reservoir Level		
	Water St. Well	Verney ET Level		
ne	Dean Well	Dean Reservoir Level		
Zo	Membro Well	Membro Reservoir Level		
	Queensdale Well	Queensdale Reservoir Level		
	University Well	University Reservoir Level		
	Downey Well	Downey Reservoir Level		
	Burkes Well	Burkes Reservoir		
Φ	Paisley Well	Paisley Reservoir Level		
o O	Helmar Well	Helmar Reservoir Level		
Z	Calico Well	Calico Reservoir Level		

Table 2-7 Well Pump	Controls
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2.5 Model Demands

Junctions in the model have assigned sets of demands that correspond to water usage in the system in units of L/s. Demands were spatially allocated based on geocoded 2019 billing records.

A summary of the 2019 model demand data is presented in Table 2-8 below. By comparing the 2019 revenue water (billed metered consumption and billed unmetered consumption) to the average daily production volume, the system has approximately 17% average non-revenue water (NRW) in 2019 or approximately 92 L/s. The MDD was developed using a total demand peaking factor of 1.34. This factor was established as part of the Water Supply Master Plan update based on the highest max day factor between 2010 and 2020. The max day factor is the ratio of water production on the highest single production day each year and the average annual day demand for the same year. The max day factor of 1.34 occurred in 2011.

Table 2-8	Model Demand Summary (2019) (L/s	5)
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Scenario	Total Demand	Billed Consumed	NRW	
ADD 2019	544	452	92	
MDD 2019	729	637	92	

The process for developing existing demands in the model was completed as follows:

- 1. InfoWater's Demand Allocator tool was used to apply the meter records to model nodes using the "nearest pipe" method.
 - a. Each billing record was matched with the nearest distribution pipe in the system, and the total water consumption was summed for each pipe.
 - b. The program then splits the consumption between the two nodes of the pipe using a distance weighted method.



- c. The result is that all each junction contains the total ADD water consumption of nearby users.
- 2. Meter records were applied to Demand Type 1 on model nodes as existing demands.
- 3. Hydrant nodes, facility nodes and nodes on large watermains without service connections were not included in the demand allocation.
- 4. 2019 Water Production data was compared to total recorded consumption. The difference between the produced and consumed water was applied evenly across each pressure zone to Demand Type 2 as NRW to develop the 2019 ADD scenario.
- 5. The ADD total demand was multiplied by a factor of 1.34 to develop the 2019 MDD based on the max day peaking factor established as part of the Water Supply Master Plan update (Water Supply Master Plan TM2). NRW (Demand Type 2) demand was maintained consistent across the demand scenarios as leakage is expected to be relatively constant across varying demand conditions. The MDD consumption demand (Demand Type 1) was calculated from the difference between the total demand and the NRW.

2.5.1 Demand Patterns

Each demand junction is assigned a pattern which applies an hourly multiplication factor throughout the day to create a diurnal curve. Different patterns can be applied to simulate trends observed for specific customer types, pressure zones, or other factors. A unique diurnal curve was developed for each pressure zone for each demand scenario.

The demand patterns were developed for each pressure zone by completing a flow balance for the zone using 5-minute interval SCADA data. By comparing input, output and storage at each time step throughout the day, and subtracting the NRW usage, it was possible to determine the amount of water consumed at hourly intervals for ADD and MDD. Demand patterns for the top-5 water users were monitored in the field and subtracted from the overall zone demand patterns. Top water users are discussed further below.

Demand patterns were applied to Demand Type 1 (Billed Consumption). At this time, a constant demand pattern was applied to Demand Type 2 (NRW) as system water loss is expected to be relatively constant throughout the day.

The dates used to develop demand patterns in the model are summarized in Table 2-9 below. Based on SCADA data and production data provided by the City, these dates were found to be representative of typical average and maximum demand days, respectively. The hourly water consumption peaking factor patterns for each pressure zone are presented in Figure 2-5 and Figure 2-6 below for ADD and MDD, respectively.

A 2020 date was used for the MDD pattern as this day was found to have higher water usage than any date in 2019. It should be noted that due to the provincial lockdowns in regards to Covid-19, water usage may have differed from historical years due to a number of factors including difference in business operation and hours and an increase in population working from home. It is not yet known how water usage patterns will continue to evolve in the future as a higher portion of the population may very likely continue to work from home compared to pre-2020 conditions. The July 8, 2020, zone balance was found to follow a trend which would be expected for a summer high water use day with a morning peak followed by a higher peak in the evening, likely as a result of lawn watering. Therefore, the July 8, 2020, diurnal pattern is considered to be representative of a typical MDD at this time.

Pattern	SCADA Data Used
ADD_2019	Average of June 10 and Nov. 11, 2019
MDD_2019	July 8, 2020

Table 2-9Model Demand Patterns





Figure 2-5 ADD 2019 Diurnal Patterns



Figure 2-6 MDD 2019 Diurnal Patterns

2.5.1.1 Large Water Users

Industrial, commercial and institutional (ICI) water use patterns can often vary from typical system usage and can have a significant impact on the system if they are a large water user. Based on the 2019 meter records provided, the top-5 customers accounted for 19% of the billed consumption and 16% of total production. Flow monitoring was completed in fall 2020 for a 2-week duration at each of the top-5 water users. Due to the project timing, large user monitoring was completed during the provincial lockdowns due to Covid-19. 2020 water usage may have varied from previous years. For large industrial users such as Cargill, Sleeman and Polycon, the total water usage and water usage pattern is expected to have remained similar to pre-2020 conditions, assuming that production has not drastically changed. At the University of Guelph, the total water consumption was significantly lower in 2020 compared to previous years due to the decrease in students and faculty on campus. However, the University water usage pattern still followed the expected trend of being highest from approximately 8:00am to 5:00pm during the hours that most people are on campus. The field data is compared to historical metered consumption in Section 3.1 below. As it is not yet known how water usage for large users will change in future years, the 2020 field data was used in the model for large user patterns at this time. The City should consider re-monitoring large users once the Province of Ontario has returned to normal societal function.

The 2020 field data was used to develop unique diurnal patterns for each of the 5 customers. The total demand used in the model at each large user was based on the 2019 billing meter records. The large



customer usage was then excluded from the overall pressure zone patterns applied to the remaining customers in the City. The top users are primarily located in Zone 1, except for Polycon which is in Zone 2. The model demand for the top users is presented in Figure 2-7 below. Large user data is discussed further in Section 3.1. Large user demands were expected to be relatively consistent between ADD and MDD.



Figure 2-7 Top 5 Users – Demand Patterns

The overall system demand under ADD and MDD is presented in Figure 2-8 and Figure 2-9 below. The total demand and NRW are based on the values in Table 2-8 above.











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3.0 WATER MODEL FIELD TESTING RESULTS AND CALIBRATION

3.1 Field Testing

3.1.1 Flow Monitoring of High Users

Large water users can have a significant impact on the distribution system. Customer billing meter records, provided by the City, were used to determine the largest users in the City. The annual usage for 2018 and 2019 for the top-20 customers is summarized in Figure 3-1 below. The top-4 users had significantly higher water usage compared to the remaining top-20.



Figure 3-1 Top 20 Water Users – 2018 - 2019

To improve the accuracy of the model demands, flow monitoring was completed at the top-5 users at the locations shown in Figure 3-2 below:

- 1. Cargill Meat Processing Plant (Cargill Dunlop)
- 2. University of Guelph (University)
- 3. Sleeman Brewery (Sleeman)
- 4. Polycon Industries (Polycon)
- 5. Cargill Meat Solutions Distribution (Cargill Watson)





Figure 3-2 Flow Monitoring Locations



Flow monitoring was completed by Watermark using ultrasonic flowmeters from approximately September 10 – October 9, 2020. A summary of the flow testing and results is presented in Table 3-1 below. Flows were recorded at 1-minute intervals. Sleeman has multiple service connections, each with a significant water demand. As such, three (3) separate flowmeters were installed at Sleeman. Flow data at Cargill Watson was provided by the customer at a 15-second recording frequency.

Customer		Start	End	Total Days	Average (L/s)	Maximum (L/s)
Cargill	Dunlop	11-Sep-20 11:04	09-Oct-20 11:31	28.0	37.2	100.9
UofG	n/a	16-Sep-20 10:50	08-Oct-20 11:55	22.0	18.3	44.9
Sleeman	Production	10-Sep-20 11:44	23-Sep-20 10:10	12.9	7.3	26.3
Sleeman	Meter 1 (upper)	10-Sep-20 11:00	09-Oct-20 09:47	28.9	1.8	20.1
Sleeman	Meter 2 (lower)	15-Sep-20 11:15	09-Oct-20 09:47	23.9	3.4	11.3
Polycon	n/a	10-Sep-20 14:33	07-Oct-20 11:53	26.9	7.7	26.1
Cargill	Watson	01-Aug-20 00:00	13-Oct-20 11:34	73.5	5.3	28.9

Table 3-1 Flow Monitoring Summary

The average flow at each customer recorded during field testing was typically within 10% of the average 2019 total billed metered consumption. However, at the University, the average field recorded flow was 18 L/s compared to 27 L/s in the 2019 billing meter records. This difference is likely a result of a decrease in students and staff members on campus due to the Covid-19 pandemic. As it is not known at this time how water usage may continue to change as the City transitions out of the Covid-19 pandemic, the 2020 flow monitoring data was used in the model at this time. Changes in large-use consumption may continue to be monitored in future years to establish updated large user patterns.

Select field flow monitoring data is presented in Figure 3-3 below.

City of Guelph



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Figure 3-3 Flow Monitoring Data

The flow monitoring data was used to better understand the water consumption of large users and develop unique diurnal patterns. The large user patterns were then excluded from the overall pressure zone patterns during model development. As the top-5 user water demand accounts for approximately 16% of total water production, this field data improves the accuracy of the model demands. Although the large user diurnal patterns were based on 2020 field data, the total demand at each large user was based on the 2019 billing meter records.

3.1.2 Pressure Monitoring

Pressure monitoring was completed by Watermark and City staff. Pressure loggers were installed on hydrants throughout the distribution system. A total of 15 pressure monitoring locations were selected to achieve coverage of key areas of the system. The locations of existing District Metering Area (DMA) flowmeter and pressure logger chambers were also considered when selecting field testing locations. Pressure monitoring locations are summarized in Table 3-2 and Figure 3-4 below.



Number	Location	Zone	Hydrant	Installed By:
1	Stewart St & Palmer Rd.	1	H34-034	City
2	Southgate Dr & Admiral Pl.	1	H80-005	City
3	Bristol St. & Fountain St	1	H42-042	City
4	Amos Dr & Arkell Rd	1	H74-025	City
5	Robin Rd & Falcon Cl	1	H73-069	City
6	Southgate Drive	1	H83-004	City
7	University Ave & Lennox Ln	1	H51-005	City
8	Clair Rd & Victoria Rd	1	H82-023	City
9	Shoemaker Cr	1	H39-057	City
10	Gordon St & Clairfields Dr	1	H77-012	Watermark
11	Watson Parkway & Dunlop Drive	1	H62-005	Watermark
12	Eastview Rd & Summit Ridge Dr	2	H26-051	Watermark
13	Brant Ave & Muskoka Dr	2	H16-025	Watermark
14	Woodlawn Rd & Dawson Rd	2	H12-020	Watermark
15	Gosling St & Gordon St	3	H81-094	Watermark

Table 3-2Pressure Monitoring Locations





Figure 3-4 Pressure Monitoring Locations



The pressure logging data collected by the City is summarized in Figure 3-5 and Figure 3-6 below, respectively. The data collected by the City included the minimum, maximum and average pressure recorded each minute. The City pressure loggers were re-programmed by City staff part-way through the field testing, which is reflected in the data gap from September 17-22. The plot below shows the average pressure at each reading. The range of pressure recorded at each logger is summarized in Table 3-3.



الأوابع والم والمغور ويعتموه والمع والموابع والموابع والموابع والمعالية والمعال Pressure (kPa) Pressure (psi) 8/28/2020 9/7/2020 9/17/2020 9/27/2020 10/7/2020 10/17/202010/27/2020 -2 -4 -6 -8 Pressure (kPa) Pressure (psi) 8/28/2020 9/7/2020 9/17/2020 9/27/2020 10/7/2020 10/17/202010/27/2020

-3 - 5 - 7 - 9

1 —

Figure 3-5 Pressure Logger Data – City (average pressure)

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3 WATER

Stantec

Figure 3-6 Pressure Logger Data – Watermark

Table 3-3	Pressure Data Summary (kPa)
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Location	Hydrant	Field Data			
Location		Min	Average	Max	
1	H34-034	152	272	345	
2	H80-005	352	397	441	
3	H42-042	538	655	689	
4	H74-025	7	352	427	
5	H73-069	241	374	441	
6	H83-004	207	299	448	
7	H51-005	179	354	786	
8	H82-023	255	309	352	
9	H39-057	110	288	531	
10	H77-012	366	396	421	
11	H62-005	387	471	522	
12	H26-051	200	293	325	
13	H16-025	273	358	388	
14	H12-020	424	451	464	
15	H81-094	403	428	457	



During the field testing period, brief but significant pressure drops were recorded at hydrant locations 4, 12 and 13. Hydrant location 4 is in close proximity to the Burke Well. The model results during the low pressure spike on October 20, 2020 are compared to the Burke discharge flow and pressure in Figure 3-7 below. The low pressure correlates with an abrupt stop in flow at Burke.



Figure 3-7 Hydrant 4 Pressure and Burke Well Discharge

Hydrant locations 12 and 13 are on the east side of Zone 2, supplied primarily by the Clythe PS. The pressure results are compared to the Clythe PS discharge on September 28, 2020 in Figure 3-8 below. The low pressure seen at the hydrants correlates with the Clythe PS shutoff. Based on discussion with City operators, these sudden shutdowns are likely caused by periodic generator testing at Clythe.

As shown in Figure 3-6 and Figure 3-8, pressures at hydrant 12 at Eastview Road and Summit Ridge Drive typically range from 200-300 kPa (30-45 psi). Through the ongoing Zone 2 Storage EA, a recommendation has been made to increase in discharge pressure at the Clythe PS to increase pressures on the east side of Zone 2 which will be reflected in the future planning horizon model scenarios. It is recommended that this new pressure setting be field tested to observe the impacts to Zone 2 and Zone 1 during the preliminary design phase of the Clythe PS upgrades.


Figure 3-8 Hydrant 12 and 13 Pressure and Clythe PS Discharge

3.2 Water Model Calibration

In addition to the field data described above, the City consistently collects 5-minute interval SCADA data including pump station discharge flows and pressures and elevated tank levels. Additionally, there are 50 DMA flowmeters and pressure data loggers throughout the system.

The existing conditions scenarios were run to determine if the model simulated reasonable solutions. SCADA data was used to set-up the model boundary conditions, such as initial tank levels and demands, to represent specific dates. The model results were then compared to the field data from that date. October 23, 2019 was selected as to verify ADD model conditions as this date had demands similar to the overall 2019 daily average. October 23, 2019, represents a typical week day without unusually high or low water usage that might be seen on a hot summer day or a holiday. A 2020 date was used for MDD calibration as it had a higher recorded demand than any day in 2019. Overall water usage trends may vary in 2020 compared to previous years due to the Covid-19 pandemic. However, the July 8, 2020 date was used for model calibration due to the high demand which is ideal for stress-testing the model under MDD conditions.

The demand for each date was calculated using 5-minute interval SCADA data for each supply source into the system and balanced to account for the change in water level at the elevated tanks and reservoirs. The following dates were used to compare the water model results with field data:



Table 3-4Dates Used for Model Calibration

Scenario	Date	Total Demand (L/s)*
ADD	23-Oct-19	550
MDD	8-Jul-20	721
*0-1-	ulated frame C	CADA data

*Calculated from SCADA data

The following control scenarios were assessed for model calibration:

- 1. ADD 2019 Dynamic Controls
- 2. MDD 2020 Dynamic Controls
- 3. MDD 2020 Time Controls

The model controls were set up based on the dynamic controls described in Table 2-6. This allows the model to automatically react to various demand and operational conditions.

The MDD scenario was also run with the pumps set on time controls such that pump station discharge flows would closely match what was recorded on SCADA on that date. The time controls were modelled to assess how closely the results in the distribution system would match the SCADA data if the conditions at the pump stations were exactly the same.

Select calibration results are presented in the sections below.

3.2.1 Pump Station Discharge Flow (Dynamic Controls)

The pump station discharge flows under ADD with dynamic controls at the major pump stations; Woods, Paisley, Robertson and Clythe are presented in Figure 3-9 to Figure 3-12 below. The model results generally matched SCADA, with the exception of a few brief time periods.

- Woods: For the majority of the day, one pump was running at approximately 300 L/s. All pumps turned off in the model at approximately 5:00am compared to 4:00am recorded in SCADA. In SCADA, a third pump turned on at about 7:00pm, which was not reflected in the model as a result of the dynamic controls used based on the Verney ET level. This indicates that the dynamic controls used in the model may vary slightly from the actual controls used on this date. Overall, average flow out of the Woods PS was aligned.
- Paisley: The model discharge flow generally matched SCADA closely.
- Robertson: The model matched SCADA closely with one pump running for the majority of the day. The discharge flow in the model is currently controlled with a FCV. The model was tested without a FCV and the booster pump in the model ran at approximately 65 L/s based on the pump manufacturer curve. The accuracy of the curve in the model may be improved by completing pump performance testing.
- Clythe: The model discharge flow generally followed the same trend as was recorded in SCADA. From approximately 2:00am to 6:00am and 9:00pm to midnight, the model flow was approximately 5 L/s lower than what was recorded in SCADA.









Figure 3-10 Paisley Discharge Flow – ADD 2019 – Dynamic Controls





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Figure 3-11 Robertson Discharge Flow – ADD 2019 – Dynamic Controls



Figure 3-12 Clythe Discharge Flow – ADD 2019 – Dynamic Controls

Overall, the discharge flows matched SCADA fairly closely using dynamic controls. Differences between the model and SCADA may be a result of operational adjustments to pump station control strategies.



3.2.2 Tank Levels

The ET levels are a good indicator of reasonable model simulation since it should follow a predictable pattern throughout the day based on system demands and pump station controls. The American Water Works Association (AWWA) Manual of Water Supply Practices M32, provides guidelines for computer modelling of water distribution systems. It includes guidelines for Hydraulic Grade Line (HGL) and water level fluctuations, which suggest that modelled tank levels should be within 0.9 to 1.7 meters of those recorded in the field.

The Verney, Clair and Speedvale ET levels under ADD with dynamic controls are presented in Figure 3-13 to Figure 3-15 below. There were some differences between the model results and what was recorded in SCADA, likely due to slight differences in pump station controls. Overall, the ET levels remained within 1.7m of what was recorded in SCADA. It appears that the Clair ET level was not recorded in SCADA for a period from 12:00pm to 3:30pm. The Clair ET level was linearly interpolated for this time period.



Figure 3-13 Verney ET Level – ADD 2019 – Dynamic Controls





Figure 3-14 Clair ET Level – ADD 2019 – Dynamic Controls



Figure 3-15 Speedvale ET Level – ADD 2019 – Dynamic Controls

The tank levels under the MDD scenario with the pump stations modelled with time-based controls to match SCADA are summarized in Figure 3-16 to Figure 3-18 below. With the pump station discharge flows set to match what was recorded in SCADA, the tank level trends matched well.



- Verney: In the morning, the ET level drained slightly faster in the model than was recorded in SCADA. In The afternoon, the ET filled slightly faster in the model. Differences between the model and SCADA may be a result of slight differences in the distribution of demands between the model and what was occurring on this date. Additionally, one unknown of this area of Zone 1 is the flow from Zone 1 into the Clythe reservoir as this is not currently recorded in SCADA. At this time, for developing the diurnal pattern it is assumed that the flow from Zone 1 into the Clythe reservoir is equal to the Clythe discharge flow. In the morning, the Clythe inlet flow may have been higher in the model than it was on that date, causing the Verney ET to drain more quickly. Overall, the ET level in the model was consistently within 1.7m of the level recorded in SCADA.
- Clair: The model level was consistently slightly higher than SCADA but followed the trend very closely and was well within the range of 1.7m compared to SCADA.
- Speedvale: The model level generally followed the same trend as SCADA. In the morning the tank drained slightly more in the model than in SCADA. In the evening, the model level did not drop as low as was recorded in SCADA.



Figure 3-16 Verney ET Level – MDD 2020 – Time Controls









Figure 3-18 Speedvale ET Level – MDD 2020 – Time Controls

A comparison of the model results to SCADA for the three (3) scenarios that were modelled are summarized in Table 3-5 to Table 3-7 below. At each 5-minute time step, the difference in level was taken between the model results and the recorded SCADA data. The portion of the day that the difference in level fell within each category is summarized. The majority of the model results were within 0.5m of what was recorded in



SCADA. Under ADD with dynamic controls, the difference between SCADA and the model did not exceed 1m at Speedvale and only briefly exceeded 1m at Clair and Verney.

Under MDD, with dynamic controls the model results were primarily within 1m of SCADA. The difference between SCADA and the model briefly exceeded 1m at Verney and Clair. With time controls, all tanks were consistently within 1m of what was recorded in SCADA with the exception of Clair ET for a brief period of time. Using time controls was found to improve the ET level results in Zone 1. This is likely due to Woods pumps being operated with a slightly different control strategy on a day-to-day basis that is not captured in the common dynamic control set in the model.

Overall, the ET level results were all within the AWWA guideline of 1.7m, with the brief exception of Clair under the MDD scenario with Dynamic controls.

Table 3-5 ET Level Model to SCADA Comparison – ADD 2019 – Dynamic Controls

Level Difference	Verney	Clair	Speedvale
< 0.5m	81%	72%	77%
0.5 - 1m	17%	24%	23%
> 1 - 1.7m	2%	4%	0%
>1.7m	0%	0%	0%

Table 3-6 ET Level Model to SCADA Comparison – MDD 2019 – Dynamic Controls

Level Difference	Verney	Clair	Speedvale
< 0.5m	75%	34%	70%
0.5 - 1m	24%	58%	30%
> 1 - 1.7m	1%	8%	0%
>1.7m	0%	0%	0%

Table 3-7 ET Level Model to SCADA Comparison – MDD 2019 – Time Controls

Level Difference	Verney	Clair	Speedvale
< 0.5m	79%	64%	73%
0.5 - 1m	21%	34%	27%
> 1 - 1.7m	0%	2%	0%
>1.7m	0%	0%	0%

3.2.3 DMA Pressure

The DMA chamber pressure logger data was compared to the model results for the select dates. AWWA M32 states that the HGL prediction by the model should be within 1.5 to 3 meters (14 to 30 kPa) of those recorded in the field. Currently, the system DMAs are not isolated, and DMA boundary valves were not closed in the model.



Select results from the ADD dynamic controls scenario are presented in Figure 3-20 to Figure 3-24 below. The locations of these DMA chambers are shown in Figure 3-19 below. These locations were selected due to their geographic distribution in Zones 1 and 2. There are not currently any DMA chambers installed in Zone 3. Complete DMA results are provided in Appendix A.





Figure 3-19 DMA Chamber Locations



- Chamber 1-1: The model results were generally followed the same trend as SCADA. In the model, the pressure dropped below SCADA from approximately 2:00pm to 3:00pm. This correlates with when all pump turned off at Woods in the afternoon, as shown in Figure 3-9 above.
- Chamber 10-3: The model results followed the SCADA data fairly closely. The model pressure exceeded SCADA by about 3 psi from approximately noon until the Woods pumps turned off in the afternoon.
- Chamber 11-1: The model results generally closely matched SCADA. The SCADA results showed that the pressure dropped slightly lower than was seen in the model at approximately 8:00am and 1:00pm. Similar to at chamber 10-3, the model pressure was about 3 psi higher in the model than SCADA from about noon to 3:00pm.
- Chamber 5-2: The model pressure matched SCADA closely. In the evening from 6:00pm to 8:00pm, the pressure the model pressure dropped about 1 psi lower than SCADA. This location is largely influenced by the Clythe PS discharge flow. The Clythe flow was slightly lower in the model than was recorded in SCADA from 6:00pm to 8:00pm.
- Chamber 14-1: The model pressures were generally within the same range as what was recorded in SCADA. At noon, the model pressure was higher than SCADA. This chamber location is likely influenced primarily by the Speedvale ET level. As shown in Figure 3-15, under ADD with dynamic controls, the model ET level was higher at noon than was recorded in SCADA.



Figure 3-20 DMA Chamber 1-1 (Zone 1: Meyer Dr) Pressure – ADD 2019 – Dynamic Controls





Figure 3-21 DMA Chamber 10-3 (Zone 1: Harvard Rd) Pressure – ADD 2019 – Dynamic Controls



Figure 3-22 DMA Chamber 11-1 (Zone 1: Clairfields Rd) Pressure – ADD 2019 – Dynamic Controls



Figure 3-23 DMA Chamber 5-2 (Zone 2: Fleming Rd) Pressure – ADD 2019 – Dynamic Controls



Figure 3-24 DMA Chamber 14-1 (Zone 2: Willow Rd) Pressure – ADD 2019 – Dynamic Controls



A comparison of the DMA chamber SCADA versus model pressure results at each time step for each of the three (3) scenarios modelled is provided in Table 3-8 to Table 3-10 below.

Under the ADD scenario with dynamic controls, the model pressures were primarily within 14 kPa of the SCADA data. The pressure difference only briefly exceeded the AWWA standard of 30 kPa. The only DMA chamber that had a difference of greater than 30 kPa for more than 5% of the day was 26-2 located in Zone 1 near York Road and Victoria Road.

Table 3-8 DMA Pressure Model to SCADA Comparison – ADD 2019 – Dynamic Controls

Pressure Difference	Zone 1	Zone 2
< 14 kPa	75%	84%
14 - 30 kPa	24%	16%
> 30 kPa	1%	0%

Under the MDD scenario with dynamic controls, the pressure difference between SCADA and the model exceeded 30 kPa 6% of the time in Zone 1 and 33% of the time in Zone 2. The results were improved when time controls were used with a difference of greater than 30 kPa 5% of the time in Zone 1 and 20% in Zone 2.

Table 3-9 DMA Pressure Model to SCADA Comparison – MDD 2020 – Dynamic Controls

Pressure Difference	Zone 1	Zone 2
< 14 kPa	71%	61%
14 - 30 kPa	23%	18%
> 30 kPa	6%	22%

Table 3-10 DMA Pressure Model to SCADA Comparison – MDD 2020 – Time Controls

Pressure Difference	Zone 1	Zone 2
< 14 kPa	74%	50%
14 - 30 kPa	21%	30%
> 30 kPa	5%	20%

An overview of the DMA chambers where the difference between the model and SCADA exceeded 30 kPa more than 10% of the time under MDD with time controls is presented in Figure 3-25 below.

It can be seen that the chambers where the model results had a difference from SCADA of over 30 kPa more than 10% of the time were primarily located on the east side of Zone 2. There were a few points on the west side of Zone 2 and throughout Zone 1 that did not closely match SCADA for at least 75% of the time, although most are in close proximity to other DMA chambers which did match SCADA closely. This indicates an issue with the pressure monitor accuracy or an elevation discrepancy in the model. For example, at DMA chamber 14-1, the model pressure was consistently more than 30 kPa lower than what was recorded at SCADA. At DMA 13-2, located less than 200m away from 14-1, the model pressure was consistently within 14 kPa of the SCADA data.



For the MDD time controls scenario, a comparison was completed of the overall daily minimum, average and maximum pressure at each DMA chamber. The minimum, average or maximum model and SCADA pressure had a difference of greater than 30 kPa at the following DMA chambers which are shown as triangles in Figure 3-25 below:

- Zone 1:
 - o **10-2**
 - Zone 2:
 - o 5-2
 - o 12-2
 - o 14-1
 - o 16-1
 - o **29-2**

In Figure 3-24 below, the triangles represent the overall daily difference between the model and SCADA at each chamber whereas the circles represent the difference between the model and SCADA at each 5-minute time-step through the simulation.



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As discussed, chambers where the model results had a difference from SCADA of over 30 kPa more than 10% of the time were primarily located on the east side of Zone 2. Select DMA chambers on the east side of Zone 2 under MDD with time controls are presented in Figure 3-26 and Figure 3-27 below. These locations are circled in purple in Figure 3-25 above. The model pressures followed SCADA fairly closely for the majority of the day. The model pressure was higher than SCADA for a period of about three hours in the evening. This pressure spike correlated with when a second pump at Clythe turned on. This indicates that the second pump turning on had more of an impact on the east Zone 2 pressures in the model than it did in reality. This may be a result of a high demand on the east side of Zone 2 in the evening, preventing the system pressure from increasing during the increase in discharge flow at Clythe. A better understanding of water usage trends may help this alignment of system pressure through DMA testing.



Figure 3-26 DMA Chamber 3-19-2 (Zone 2: Speedvale Ave & Victoria St) Pressure – MDD 2020 – Time Controls



Figure 3-27 DMA Chamber 5-1 (Zone 2: Eastview Rd & Watson PW) Pressure – MDD 2020 – Time Controls

Overall, the DMA pressure results from the model were found to match SCADA well at most locations. The DMA chambers in the model which did not closely match SCADA are assumed to be outliers, as a result of instrumentation error or elevation discrepancies. Instruments that did not match model well were found to be in close proximity to DMA chambers where the model closely match SCADA data. Additionally, the ET levels were found to match SCADA closely, indicating reasonable overall system accuracy in the model.

3.2.4 DMA Flow (Time Controls)

A comparison of the model and SCADA flow results at select DMA chambers is presented in Figure 3-28 to Figure 3-32 below under the MDD scenario with time controls.

- Chamber 1-1: The model flow generally followed the same trend as SCADA.
- Chamber 10-3: The model flow matched SCADA well. The alternating flow directions in the morning correlated with when Woods was turning on and off. The model flow slightly exceeded the flow recorded in SCADA in the evening when the Woods discharge flow was the highest.
- Chamber 11-1: The model flow followed SCADA closely. Similar to 10-3, the alternating flow in the morning at the DMA chamber corresponded with the Woods PS turning on and off.
- Chamber 5-2: At this location, the model and SCADA flow followed the same trend and were both relatively low, not exceeding 5 L/s.
- Chamber 14-1: The model flow was slightly higher than SCADA in the afternoon but generally followed the same trend.

Minor differences between the model results and SCADA are likely a result of model demands. Demands are spatially allocated based on the 2019 total annual billing meter records, and diurnal patterns are



developed for each pressure Zone. The distribution of water usage throughout each Zone likely differs slightly on a day-to-day basis, causing differences in flow pathways throughout the system. Overall, the DMA flow results were found to match SCADA well.



Figure 3-28 DMA Chamber 1-1 (Zone 1: Meyer Dr) Flow – MDD 2019 – Time Controls



3 WATER

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Figure 3-29 DMA Chamber 10-3 (Zone 1: Harvard Rd) Flow – MDD 2019 – Time Controls



Figure 3-30 DMA Chamber 11-1 (Zone 1: Clairfields Rd) Flow – MDD 2019 – Time Controls



Figure 3-31 DMA Chamber 5-2 (Zone 2: Fleming Rd) Flow – MDD 2019 – Time Controls



Figure 3-32 DMA Chamber 14-1 (Zone 2: Willow Rd) Flow – MDD 2019 – Time Controls



3.2.5 Pressure Data Loggers

The pressure logger data collected by Watermark and the City were compared to the model results at each hydrant location under the base 2019 ADD and MDD scenarios. The minimum, maximum and average pressure at each hydrant logger is summarized in Table 3-11 below. The average model pressure was within the 30 kPa of the field-testing data at all locations.

The difference between the model and field data was the highest at location 15 in Zone 3. The pressure in Zone 3 is influenced by the Clair PS. The SCADA discharge pressure at the Clair PS during the field testing period was compared to the model results and was found to match closely. The lower pressure at the hydrant in the model compared to the field data may be a result a difference in elevation.

The pressure difference was also relatively high at location 12, at Eastview and Summit Ridge on the east side of Zone 2. This is a known high elevation and low-pressure area in the system. The field data indicated lower pressure in the area than was simulated in the model results.

Location	Uvdropt	Field Data Model Resu			Model Results		Difference	
Location	пубгалт	Min	Average	Max	Min	Average	Max	(Avg.)
1	H34-034	152	272	345	260	278	312	6
2	H80-005	352	397	441	358	391	406	5
3	H42-042	538	655	689	636	658	690	3
4	H74-025	7	352	427	311	345	362	7
5	H73-069	241	374	441	336	368	386	6
6	H83-004	207	299	448	261	294	309	4
7	H51-005	179	354	786	337	360	392	6
8	H82-023	255	309	352	265	299	316	10
9	H39-057	110	288	531	261	296	324	8
10	H77-012	366	396	421	357	391	407	5
11	H62-005	387	471	522	441	470	503	0
12	H26-051	200	293	325	222	311	326	18
13	H16-025	273	358	388	276	363	379	5
14	H12-020	424	451	464	443	464	474	14
15	H81-094	403	428	457	392	403	408	25

Table 3-11Model Comparison to Pressure Logger Data (kPa)



4.0 WASTEWATER MODEL UPDATE

4.1 Model Introduction and Background

The City has been using hydraulic modelling for system analysis to support growth capacity assurance, flood risk reduction, operational assessment, and long-term capital planning. A general history of the City's wastewater models and their development is provided in Table 4-1.

Scope	Consultant	Software	Year Completed
Wastewater Master Plan	Earth Tech	InfoSWMM	2008
Complete Sewer Network			
 Trunk Level Calibration (8 FMs) 			
Hydraulic Modeling Update for the 2013 Development Charges (DC) Study	Aecom	InfoSWMM	2013
 Update of 2008 Model 			
 1,487 new pipes added 			
Complete Sewer Network			
No Calibration Performed			
Guelph Innovation District (East End)	AMEC	PCSWMM	2014
Secondary Plan			
 Local Sewer Network 			
Nima Trails (North End)	GM BluePlan	InfoSWMM	June 2017
 Local Sewer Network Subdivision 			
 Localized Calibration (8 FMs) 			
Clair-Maltby (South End)	Wood (AMEC)	InfoWorks ICM	January 2019
Secondary Plan			
Local Sewer Network			
 No Calibration Performed 			
Downtown	Cole	PCSWMM	January 2020
Secondary Plan			
Local Sewer Network			
 Localized Calibration (5 FMs) 			
Clair-Gordon (South End)	Civica	VH-SWMM	June 2020
 Local Sewer Network 			
Localized Calibration (6 FMs)			

Table 4-1 Timeline of Existing Wastewater Models



The City's initial wastewater model was developed in XPSWMM, migrating to InfoSWMM in 2008 as part of the original Water and Wastewater Master Plan by Earth Tech. In 2013, AECOM completed a Water/Wastewater Development Charges Update, including model update with future infrastructure requirements to meet the projected growth. This was not recalibrated and reuses flow parameters from the original 2008 model. Since 2013, various sub-models were built at a local scale in support of development projects, each with a different modelling methodologies, inputs, degrees of calibration, and use of software. While there is some recalibration as part of the sub-models, the events selected are not consistent between these models.

It is important to have confidence in the performance of the entire collection system when completing a Master Planning level assessment where decisions are made on major infrastructure and capital budgets. As such, a review, consolidation, asset update and recalibration to recent field monitoring data is necessary to support the objectives and outcomes of this WWSMP update.

4.2 Required Model Updates

The following section provides details on the approach used to update the wastewater hydraulic model.

4.2.1 Infrastructure Validation

The City's wastewater sewer system is comprised of maintenance holes, gravity sewer pipes, in-line storage pipes, forcemains, siphons, and pump stations and their wet wells. Information regarding these were reviewed and validated for input into the model.

4.2.1.1 GIS Asset Database

The City provided a GIS asset database of its wastewater infrastructure which is the basis of the new hydraulic model pipe network. The GIS layers of interest for the wastewater sewer system include:

- wwGravityMain
- wwMaintenanceHole
- wwNetworkStructure
- wwPressureMain

The layers contain some data gaps and connectivity issues when brought into the model environment. The data gaps were identified in TM 1 and a gap-filling exercise completed based on inference and select drawing review. An updated version of the GIS database was received on May 29, 2020, as part of the Asset Management Division's initiative to restructure and enhance the geodatabase. The base attribute data (i.e., pipe diameter or inverts) was not part of the update, therefore the original gaps remain. However, the update did include the addition of recent capital projects (both built and planned). The model gap-filling exercise was updated within the hydraulic model, provided in tabular format in Appendix B.

4.2.1.2 Model Build

The wastewater sewer system was established using the updated GIS assets (May 29, 2020). This ensures that the modeled infrastructure is properly identified and consistent with the City's GIS unique ID. This helps maintain a direct link between the hydraulic model and the asset database, and allows for tabular joins using GIS tools. A Model Assessment and Software Recommendation (TM 2) was completed, with the software package PCSWMM recommended, which is as a versatile, user-friendly, local platform that aligns with the stormwater Master Plan software. The City's decision to accept this recommendation remains, however the model build task has proceeded using the recommended software. Should a different software be preferred, the model would need to be transferred to this other software.



Only the necessary fields for each type of infrastructure were imported into PCSWMM, as presented in Table 4-2. Since the original GIS IDs are being used in the model, each model element can be traced back to the GIS asset database allowing a direct link for future model updates and communicating model results.

Wastewater Infrastructure	GIS Layer Source	PCSWMM Layer	Imported GIS field	Equivalent PCSWMM field
Maintenance Holes	wwMaintenanceHole	Junctions	WWMHID	NAME
			STATUS	DESCRIPTION
			RIMELEV	RIM ELEV. (m)
Wet Wells & Pump	wwNetworkStructure	Storages	NAME	NAME
Stations Locations			INVERT	INVERT
			DEPTH	DEPTH
Gravity Sewer Pipes	wwGravityMain	Conduits	WWGMAINID	NAME
			STATUS	DESCRIPTION
			DIAMETER	GEOM 1 (m)
			UPINVERT	INLET ELEV. (m)
			DOWNINVERT	OUTLET ELEV. (m)
			FROMMH	INLET NODE
			ТОМН	OUTLET NODE
Forcemains and	wwPressureMain	Conduits	WWGMAINID	NAME
Siphons			STATUS	DESCRIPTION
			PIPETYPE	TAG
			DIAMETER	GEOM 1 (m)
			UPINVERT	INLET ELEV. (m)
			DOWNINVERT	OUTLET ELEV. (m)
			FROMMH	INLET NODE
			ТОМН	OUTLET NODE

Table 4-2 Imported GIS Layers for Model Build

Once imported into PCSWMM, the following engineering validation tasks were performed:

- Connectivity Tracing: Identified connectivity issues through tracing tools. Adjusted erroneous ID references and created dummy nodes where required to resolve connectivity issues
 - The naming procedure for the dummy nodes is as follows:
 - DUMMY-upstream pipe ID@ downstream pipe ID.
- Profile Confirmation: Check and correct invert/rim elevations, diameters, negative slopes, pipe lengths, etc.
 - Changes are identified in the DATA_SOURCE field in the model
- Check and update pump curves, wet well dimensions, pump operation levels etc.
- Remove abandoned infrastructure as identified in the STATUS field



4.2.1.3 Importing Existing Models

To capitalize on the advancements of previous modelling efforts, the existing calibrated sub-models and their flow parameters were reviewed and imported into the new PCSWMM Master Plan model as follows:

- South End VH-SWMM Model (Civica, 2020):
 - Clair-Gordon area, calibrated with 6 flow monitors (See Section 4.3.1.2).
 - Downtown Secondary Plan Model (Cole Engineering, 2020):
 - Downtown core area, calibrated with 5 flow monitors (See Section 4.3.1.2)

The flow generation parameters for dry and wet weather were maintained.

- North End Nima Trails (GM BluePlan, 2017)
 - 8 flow meters were used to assess this area in the north part of the City.

The flow monitoring data from this project is older than that used for the current calibration effort. Data from FM20 which is in the same area was used for calibration. A validation of the model performance to the Nima Trails project is provided in Section 5.1.12.

4.2.1.4 Sanitary Pump Stations

The sanitary pump stations were modeled in detail when sufficient information was available; otherwise, they were modeled as an ideal pump, whereby pump outflow is equal to inflow. Available approval documents, drawings and design reports were reviewed to populate the modeled sanitary pump station characteristics, as summarized in Table 4-3.

Sanitary Pump Station	Address	Number of Pumps	Capacity (L/s)	Model Approach
Barton Estates	49 Robin Road	1+1	8.9 L/s	Pump Curve
Gazer Mooney	672 Speedvale Avenue East	3+1	14.9 L/s	Ideal Pump
Gordon Street	1020 Gordon Street (decommissioned)	2+1 (decommissioned)	30.8 L/s (decommissioned)	Ideal Pump. (Removed in existing conditions model but included for calibration.)
Kortright Heights	1005 Victoria Road South	2+1	130.6 L/s	Pump Curve
Landfill Site on Eastview	186 Eastview Road	3 stations comprised of 2 (1+1) pumps each	19.6 L/s from annual pump data	Ideal Pump. Constant flow loaded at 19.6 L/s. See Section 4.4.3.2 for more details.
NiMa Trails	Shakespeare Drive	Existing: Temporary SPS Future: 2+1	Existing: Temporary SPS of unknown capacity Future: 26 L/s	Existing conditions: Ideal Pump

Table 4-3Sanitary Pump Stations



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Sanitary Pump Station	Address	Number of Pumps	Capacity (L/s)	Model Approach
				Future: Pump Curve per the provided model
Northern Heights	68 Ingram Drive	1+1	33.0 L/s	Pump Curve
Terraview	51 Terraview Crescent	1+1	13.0 L/s	Ideal Pump
Rockwood	Valley Road	2	33.0L/s	Conservatively included as constant 33L/s flow.

4.2.2 Sewershed Delineation

The sanitary sewershed delineation was performed using the City's parcel layer as a base. The parcels were then assigned appropriate outlet nodes based on the lateral connections, when available. Otherwise, the closest node was assigned. The street parcels were divided using the Thiessen polygon method (or "Voronoi decomposition" in PCSWMM). This method consists in dividing polygons based on their proximity to given

points, assigning areas to the nearest point. Once the outlets assigned, PCSWMM's upstream selection tool made it possible to identify the tributary parcels to each flow monitoring site, and assign a flow monitoring tag to each parcel, thus identifying the sewershed.

Instead of using the parcel areas, a 50m buffer around the sewer was applied to prevent overestimating tributary sewershed areas that are used to generate rainfall derived inflow and infiltration (RDII) and validate GWI infiltration flow rates. Each node representing a maintenance hole was assigned the sewershed area resulting from the 50m buffer. (See Figure 4-1).

The non-buffered area (based on the parcels) was kept in the sewershed characteristics to assess ICI full parcel areas.

The sewershed delineation is maintained in the model within PCSWMM's "Subcatchments" layer.



Figure 4-1 Sewershed Delineation and Buffer

Additional characteristics were added to the parcel-based sewershed, such as land use and water consumption records. These characteristics serve as the basis to calculate the representative flow generation rates. Table 4-4 provides the subcatchment characteristics as tracked in the model.



Table 4-4

PCSWMM Subcatchment Characteristics

PCSWMM field name	Assigned property			
Default Characteristics in PCSWMM				
NAME	Parcel number (GPID)			
DESCRIPTION	Land use			
TAG	Flow monitor it is tributary to			
OUTLET	Outlet node			
AREA	Non-buffered area (ha)			
	Added Characteristics			
BUFF_AREA	Buffered Area (ha)			
POPULATION_2016	Population in 2016			
POPULATION_2019	Population in 2019 obtained by multiplying 2016's population by a factor			
STUDENTS	Number of off-campus students			
STUDENTRES	Number of on-campus student-residents			
H2O_2018	Water consumption of 2018 (m ³)			
H2O_2019	Water consumption of 2019 (m ³)			
TOT_GWI	Total groundwater infiltration for the whole flow monitoring site, excluding upstream monitors (L/s)			
TOT_RES	Total residential flow for the whole flow monitoring site, excluding upstream monitors (L/s)			
TOT_ICI	Total ICI flow for the whole flow monitoring site, excluding upstream monitors (L/s)			
TOT_ADSF	Total average dry sewage flow for the whole flow monitoring site, excluding upstream monitors (L/s)			
GWI	Groundwater infiltration distributed to the individual catchment (L/s)			
RES	Residential flow distributed to the individual catchment (L/s)			
ICI	ICI flow distributed to the individual catchment (L/s)			
STUDENTFLO	Sewage flow generated by students at the individual catchment (L/s)			
ADSF	Average dry sewage flow distributed to the individual catchment. ADSF = RES + ICI + STUDENTFLO			

4.2.3 Population

Guelph's 2016 population and its distribution were obtained from Statistics Canada's census data at a dissemination block (DB) level. The population was then distributed to the residential parcels proportionately to the water consumption records. The same population distribution was maintained but multiplied by a factor to obtain the 2019 population provided by the City in September of 2020 (Table 4-5).



Year	Population	Source	
Population 2016	131,794	Census Data	
Population 2019	143,500	Email from City (September 2020	

|--|

The student population provided by the University of Guelph's website was compared with the census data. Based on the difference, it is understood that the census does not account for the student population. To populate the campus with its students, information from the University's website was used and is detailed in Section 4.4.3.4.

4.2.4 Implementing Recent Capital Work Upgrades

A list of recent capital work upgrades and the associated drawings were provided by the City (see Appendix C) during the model calibration process. Those upgrades that would have influenced the calibration were included. The upgrades that have been or will be introduced outside of the calibration period will be considered in the existing and future conditions assessment tasks.

The drawings were reviewed and cross-referenced with the GIS asset. The completion date of each capital work was also validated to assess the conditions of the collection system during the flow monitoring period and the differences with its existing conditions. The list also provides future upgrades that need to be considered when running future scenarios.

4.3 Rainfall and Flow Monitoring Analysis

The City has been operating a rainfall and flow monitoring program for several years, to support development capacity assessments, operations, and the ongoing infiltration and inflow initiatives. The most recent flow monitors were installed between December 2016 to February 2020. These monitors provide data that gives insight into the actual flow generation (dry and wet weather conditions) and the distribution in the collection system. Understanding the dry and wet weather flow generation characteristics based on an assessment of actual recorded depth, velocity and calculated flow data greatly enhances the confidence in the model results.

The general process for monitoring data analytics is presented in Figure 4-2.







4.3.1 Rainfall Data Analysis

4.3.1.1 Available Rainfall data

Rainfall data was provided from four rain gauges with data ranging from 2017 to 2020, as shown in Table 4-6. The location and data coverage of these rain gauges were analyzed to provide as much coverage as possible and to account for spatial distribution of rainfall.

Table 4-6	Available Rainfall Data
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Rain Gauge	Location	Available Data	
RG01	Sir Isaac Brock Public School	2017/01/19 – 2020	
RG02	Guelph City Hall	2017/01/19 – 2020	
Helmar Well	673, Woodlawn Road E	2019/11/01 – 2020	
West End CC West End Community Center		2019/11/01 – 2020	

Figure 4-5 shows the location of existing rain gauges, highlighting the ones for which data was provided, which were used for the model recalibration.





Figure 4-3 Available Rain Gauge Locations



4.3.1.2 Available Flow Monitoring Data

4.3.1.2.1 Flow Monitor Selection

A total of 24 flow monitoring sites were available for the Master Plan. Among them, several have already been used for calibration in the existing sub-models. Since these sub-models have been imported into the new city-wide model, monitors covering areas that have not yet been calibrated were prioritized and selected for use in the Master Plan recalibration exercise (FM10 to FM21). The previously calibrated monitors were primarily used for validation.

The list of available flow monitors is presented at Table 4-7.

Flow Monitor	Maintenance Hole ID	Sewer Pipe ID	Sewer Pipe Diameter (mm)	Description
FM01	6577	7239	250ø	
FM02	5955	6535	450ø	
FM03	5955	6679	450ø	2017 Clair-Gordon Calibration
FM04	6407	7053	375ø	
FM05	5459	5986	600ø	
FM06	8055	8852	450ø	
FM06a	7537	8391	250ø	
FM07	7417	8262	375ø	2020 Downtown Calibration
FM07a	1337	1947	300ø	
FM08	8737	9468	450ø	
FM09	5254	5731	825ø	2017 Clair-Gordon
FM10	7486	8335	750ø	Selected for Master Plan
FM11	37	9421	675ø	
FM12	4816	5235	900ø	
FM13	3188	3463	750ø	
FM14a	3156	3442	500ø	
FM14b	3155	3429	750ø	
FM15	5419	5932	600ø	
FM16	1622	2985	600ø	
FM17	7322	8148	750ø	
FM18	1439	1687	900ø	
FM19	3203	3493	450ø	
FM20	3603	3828	825ø	
FM21	3897	4163	375ø	

Table 4-7 List of Flow Monitors



The flow monitoring schematic in Figure 4-4 shows which sites are installed in series or in parallel, and which ones that have already been used for calibration by other consultants.





Flow Monitoring Schematic



4.3.1.2.2 Flow Monitoring Coverage

The flow monitoring program operated by the City has made it possible to obtain data covering the majority (70%) of the area serviced by the City's wastewater collection system. The remaining areas not covered by the monitoring program are mainly of residential land use, the University of Guelph campus, and the Guelph innovation district. For the purpose of master planning, the flow monitoring coverage is considered sufficient. Future monitoring efforts could prioritize characterization of the areas that have not been monitored to date, and/or look to confirm the flows in any priority locations identified in the collection system assessment phase of this project. The spatial distribution of the flow meter coverage is provided in Figure 4-5.

4.3.1.2.3 Flow Monitoring Data Quality

The quality of data for each site was verified to determine if any significant issues were identifiable and to understand the overall appropriateness of the use of the data for model calibration. To help visualize the data quality, velocity-depth scattergraphs were plotted and are presented in Appendix D. The velocity/depth distribution of the data (its shape, tendency, suggested roughness, etc.) can be used to identify irregularities.

One way to use the scattergraph is to compare the data distribution with theoretical values based on Manning's equation which describes the relationship between velocity, depth, slope, and pipe roughness. The monitoring data may or may not agree with the theoretical manning curves depending on the site conditions. Comments for each monitoring site are presented in Table 4-8.

Of importance, the distribution of the collected data aligning in accordance or outside of the theoretical roughness range is a consideration that may or may not be significant. The roughness of a sewer can be an indication of a temporary condition that can be flushed through seasonal rainfall or might warrant field maintenance to clean. The accuracy of velocity/depth measurement also impact the trend of the data distribution and can result in the data appearing to reside outside of expected ranges. These and other factors require consideration when assessing data and interpreting the consequential model calibration process.



C3 WATER



Flow Monitoring Coverage Figure 4-5

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Flow Monitor	Scattergraph Observations
FM10	Fairly narrow data distribution with an apparent tendency but falls outside of expected range of Manning's equation and suggests a roughness over 0.019.
FM11	Multiple dispersed data distributions. Possibly running in a transitional flow regime.
FM12	Nice and narrow data distribution following an apparent tendency described by a Manning roughness between 0.016 and 0.019. Installed slope possibly gentler than what's provided by the GIS.
FM13	Fairly narrow data distribution with an apparent tendency but falls outside of expected range of Manning's equation and suggests an abnormally high Manning roughness (> 0.070). Possibility of sensor malfunction.
FM14a	Dispersed data distribution falling outside of expected range of Manning's equation and suggesting a roughness over 0.019.
FM14b	Nice and narrow data distribution following an apparent tendency but falls outside of expected range of Manning's equation and suggests a roughness over 0.019.
FM15	Falls outside of expected range of Manning's equation and suggests a roughness under 0.011. Possibly running in a transitional flow regime.
FM16	Nice and narrow data distribution following an apparent tendency within expected range of Manning's equation.
FM17	Two data distributions with nice and narrow shapes suggesting a Manning roughness between 0.016 and 0.019.
FM18	Falls outside of expected range of Manning's equation and suggests a roughness under 0.011. Possibly running in supercritical flow.
FM19	Falls outside of expected range of Manning's equation and suggests a roughness under 0.011. Possibly running in supercritical flow.
FM20	Fairly narrow data distribution with an apparent tendency and suggests a Manning roughness between 0.013 and 0.019. Shows evidence of backwater and surcharge.
FM21	Fairly narrow data distribution with an apparent tendency and suggests a Manning roughness between 0.011 and 0.019.

Table 4-8 Flow Monitoring Data Quality



4.3.1.3 Selection of Dry Periods and Wet Weather Events

Both the rainfall and flow monitoring data were analyzed to identify potential dry weather periods and wet weather events that could be used for calibration. Figure 4-6 shows the overlap between rainfall and flow monitoring data coverage.



Figure 4-6 Rain & Flow Monitoring Coverage



To optimize the overlap between the rainfall data and flow monitoring data, dry weather and wet weather events between January 2020 and June 2020 were ideally chosen for calibration. Table 4-9 provides a summary of the selected rainfall event characteristics.

Event	Rain Gauge	Start	End	Duration (hrs)	Total Rainfall (mm)	Peak Intensity (mm/hr)	Return Period
	RG01	Jan 10, 2020 12:05	Jan 12, 2020 04:54	40.83	88.75	21	Greater than 25 yrs
January 10, 2020	RG02	Jan 10, 2020 16:20	Jan 12, 2020 05:41	37.33	75.75	15	Greater than 10 yrs
2020	Helmar Well	Jan 10, 2020 16:15	Jan 12, 2020 06:15	38.00	108.50	45	Greater than 100 yrs
	West End CC	Jan 10, 2020 23:00	Jan 12, 2020 06:10	31.17	97.75	18	Greater than 50 yrs
	RG01	May 29, 2020 13:40	May 29, 2020 13:59	0.33	2.00	9	< 3 months
May 20, 2020	RG02	May 29, 2020 13:25	May 29, 2020 13:59	0.58	13.25	81	Greater than 9 months
May 29, 2020	Helmar Well	May 29, 2020 13:25	May 29, 2020 14:05	0.67	15.25	75	Greater than 1 yr
	West End CC	May 29, 2020 13:25	May 29, 2020 14:29	1.08	13.50	75	Greater than 9 months
	RG01	Jun 10, 2020 19:10	Jun 11, 2020 05:10	10.00	34.75	69	Greater than 1 yr
June 10, 2020	RG02	Jun 10, 2020 19:05	Jun 10, 2020 22:45	3.67	28.50	48	Greater than 1 yr
	Helmar Well	Jun 10, 2020 18:45	Jun 11, 2020 06:15	11.50	32.00	42	Greater than 1 yr
	West End CC	Jun 10, 2020 18:50	Jun 11, 2020 04:45	9.92	28.00	51	Greater than 9 months

Table 4-9 Identified Rainfall Events

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Event	Rain Gauge	Start	End	Duration (hrs)	Total Rainfall (mm)	Peak Intensity (mm/hr)	Return Period
	RG01	Jul 10, 2020 18:50	Jul 11, 2020 12:39	17.83	15.50	24	Greater than 3 months
huly 10, 2020	RG02	Jul 10, 2020 12:20	Jul 10, 2020 11:45	23.42	42.75	108	Greater than 1 yr
July 10, 2020	Helmar Well	Jul 10, 2020 12:05	Jul 11, 2020 12:15	24.17	48.50	102	Greater than 2 yrs
	West End CC	July 10, 2020 11:55	Jul 11, 2020 11:25	23.50	34.50	126	Greater than 9 months

A dry weather period which overlaps with the selected monitoring sites' available data was identified. With over a week of no rainfall, the period between June 11, 2020 and June 19, 2020 is ideal for determining dry weather flow (DWF) characteristics. Based on the *Wastewater Planning Users Group Code of Practice for Hydraulic Modelling of Sewer Systems* (WAPUG, 2002) the dry weather flow calibration was performed with a 2-day period furthest from the influence of a preceding rainfall event. As such, the selected dry weather period is from June 17, 2020 to June 19, 2020.

4.3.2 Influence of 2020 Global Pandemic

The year of 2020 was marked by an unprecedented global pandemic which had many people working from home. Given that the available data is primarily from 2020, it is unclear how representative the established DWF and diurnal patterns are when comparing them to a normal period. The possibility of the work from home practices being maintained post-pandemic also makes it difficult to predict how the City's dry weather wastewater generation might vary in the upcoming years. A reassessment and update of DWF may be of interest as a result. The year 2020 was nevertheless retained for the DWF analysis, as it provided the greatest flow monitoring data coverage, as previously shown in Figure 4-6.

4.3.3 DWF Analysis

Having selected a dry weather period, the flow monitoring data was analyzed to determine DWF characteristics for each site. DWF is comprised of two main components including groundwater infiltration (GWI) and average dry weather sewage flow (ADSF) generated by residents (RES), and industrial, commercial, and institutional (ICI) land use.

$$DWF = GWI + ADSF$$

The purpose of the DWF analysis is to establish these components, determine if they are within expected ranges, and to establish the diurnal pattern characteristics for each monitor.

4.3.3.1 Groundwater Infiltration

Groundwater infiltration represents the flow resulting from groundwater leaking into the system through pipe joints, broken pipes, etc, during dry weather (i.e., not rainfall induced). This component can be evaluated using the Stevens-Schutzbach's empirical equation as follows:



$$GWI = \frac{0.4(MDF)}{1 - 0.6\left(\frac{MDF}{ADF}\right)^{ADF^{0.7}}}$$

Where MDF is the minimum daily flow and ADF is average daily flow (base equation in million gallons per day units).

The procedure to calculate the GWI for each monitoring site is as follows:

- 1. Establish MDF and ADF from flow monitoring data.
- 2. Calculate GWI with Stevens-Schutzbach's equation, for each monitoring site.
- 3. Determine resulting GWI L/s/ha rates based on the 50m buffer sewershed area.
- 4. Validate rates against typical values and land use.
- 5. Adjust GWI, if required.



4.3.3.2 Ave

Average Dry Weather Sewage Flow

Having evaluated GWI, ADSF can be determined by subtracting GWI from the observed DWF hydrograph.

$$ADSF = DWF - GWI$$

The next step is then to distribute the resulting sewage flow to either a residential or ICI generation. This is achieved by using both water consumption records and land use information.

$$ADSF = RES + ICI$$

The general steps to determining ADSF, RES and ICI for each monitoring site are as follows:

- 1. Calculate ADSF by subtracting GWI from DWF.
- 2. Distribute ADSF to RES and ICI based on the proportions from the water consumption records.
- 3. Determine resulting RES per capita rate.
- 4. Determine ICI rate based on total ICI parcel area.
- 5. Validate rates with typical values.
- 6. Adjust RES and ICI by redistributing ADSF, if required.

4.3.3.3 Establishing Diurnal Patterns

A diurnal pattern represents the variation of peak sewage flow during the day and is associated with the City's water usage habits, which varies by land use and neighbourhood. Figure 4-7 shows the diurnal pattern for each of the monitoring sites, and the overall City average. The patterns specific to each monitoring site were applied accordingly while the non-monitored areas were assigned the City's overall average.



Figure 4-7 Diurnal Patterns



4.3.4 WWF Analysis

The purpose of WWF analysis is to determine the quantity of rainfall entering the sewer system and to establish the rainfall derived infiltration and inflow (RDII) parameters. The RDII methodology used to determine wet weather flow for this Master Plan is the commonly applied RTK method.



Figure 4-8 RTK Unit Hydrograph

The RTK method generates wet weather flow entering the sewer system by assigning a unit hydrograph obtained from combining three unit-hydrographs representing different types of characteristic responses:

- Short term response (initial inflow)
- Medium term response (moderate infiltration)
- Long term response (slow infiltration)

Each one of these unit hydrographs is comprised of three parameters, where:

- R = Portion of rainfall that enters the sewer (percentage, unitless)
- T = Time to peak of hydrograph (hours)
- K = Ratio of the recession time to time to peak (unitless).

RTK parameters can be established from the flow monitoring data using a curve-fitting approach. See Section 4.4.2.



4.4 Flow Generation and Loadings

Flow generation in a hydraulic model is primarily based on tributary population (existing and projected), groundwater infiltration also known as baseflow, non-residential large users (usually ICI land users), and wet weather flow resulting from RDII.

The following sections detail the methodology used to load the hydraulic model with flow and other characteristics. Overviews of the PCSWMM interface, functionalities and layer properties are provided in Figure 4-9 and Figure 4-10, for subcatchments and junctions, respectively.

4.4.1 Dry Weather Flow

4.4.1.1 Groundwater Infiltration

GWI was first loaded into the model's "Subcatchments" layer (see Figure 4-9). It was then distributed to each flow monitoring site proportionately to its 50m buffer sewershed area. In the model, this parameter is loaded into the "Junctions" layer under the "BaseFlow" property (see Figure 4-10). This was achieved using PCSWMM's LLOOKUP function in the attribute editor.

4.4.1.2 Average Dry Sewage Flow

ADSF was divided into RES and ICI generation based on the water consumption records and land use information. Since PCSWMM performs computations based on ADSF rather than RES and ICI populations, these parameters were first loaded into the "Subcatchments" for documentation purposes (see Figure 4-9).

RES flow was distributed to each flow monitoring site proportionately to its population, while ICI flow was distributed proportionately to the ICI water consumption. ADSF for each individual catchment was then obtained by summing both RES and ICI. In PCSWMM, ADSF resides in the "Junctions" layer under the "AvgValue" property (see Figure 4-10). The average dry sewage flow is then multiplied by a 24-hrs diurnal pattern to reflect the variation of peak flow throughout the day. The patterns were established for each monitoring site and assigned accordingly. For areas without flow monitoring coverage, see Section 4.4.3.5.

4.4.2 Wet Weather Flow

The RTK method was used to generate WWF which consists of assigning each flow monitoring site with a unit hydrograph and a sewershed area. A set of typical RTK values were initially assigned to each monitoring site for iterative calibration (see Section 5.2). The tributary sewershed area per monitor was based on the 50m buffer around the sewer as explained in Section 4.2.2.

In PCSWMM, these parameters reside in the "Junctions" layer under the "Hydrograph" and "Sewershed Area" characteristics (see Figure 4-10).



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Figure 4-9 Overview of PCSWMM Interface, Functionalities and Subcatchment Properties

City of Guelph



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Figure 4-10 Overview of PCSWMM Interface, Functionalities and Junction Properties



4.4.3 Flow from Particular Sites

The following sections detail the methodology used to load flow at particular sites in the study area.

4.4.3.1 Gazer Mooney

Right outside the City boundary is a residential area composed of 75 units and is serviced by the Gazer Mooney sanitary pump station. A density of 4 people per unit was maintained per previous works and loaded to the model. This area is tributary to the flow monitoring site FM20. As such, DWF and WWF was loaded with the results obtained from the FM20 analysis and later calibrated.

4.4.3.2 Landfill Site on Eastview

The landfill site includes three pump stations: Main, West, and South as discussed in Section 4.2.1.4. Each station contains two pumps. Weekly pumped volume data (provided by the City) was used to determine the average weekly flow between 2017 and 2019. It is assumed that the pumps work in an alternating sequence. The weekly average flow was calculated by dividing the recorded volumes with the pump's total runtime. The results show that the highest recorded weekly flow was 19.6 L/s. This was conservatively loaded to the model as a constant flow. The calibration process is not influenced by this source of flow because it is located outside of the monitoring sites.

4.4.3.3 Rockwood Community

Also located outside the City boundary, the Rockwood community is serviced by Guelph's wastewater collection system. In the original WWSMP from 2008, a peak flow of 26.7 L/s was established from daily flow records. This flow was loaded into the new model as a constant flow in a dummy node named "Rockwood". The node is located on highway 7, right outside the City boundary. Considering that the established flow comes from a 12-year-old Master Plan, it would be relevant to reassess this value.

Based on updated information provided by the City, the Rockwood pumps were upgraded to variable speed pumps, which can provide a maximum flow of 33.0 L/s. Like the landfill site, the flow from Rockwood is not tributary to any monitoring site, which means the flow generation can be updated without affecting the calibration results. This update will be reflected in the existing conditions modelling.

4.4.3.4 University of Guelph

The student population for the University of Guelph was determined from the available information on their website. The mean calibrated residential flow rate obtained from the DWF calibration of 227 L/cap/d (see Table 5-1) was used for on-campus students. A flow rate of 140 L/cap/d was used for the off-campus students as suggested by the MECP guidelines (Table 4-10).

Type of Students	Number of Students	Flow Rate Used	Generated Flow
On-Campus Students	5,194	227 L/cap/d	13.6 L/s
Off-Campus Students	24,313	140 L/cap/d	39.4 L/s
Total	29,507	-	53.0 L/s

Table 4-10	University of	Guelph Population
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For WWF, a sewershed delineation was performed using a 50m buffer around the streets layer since the GIS asset provided by the City did not have the sewer network within the University area. The mean calibrated RTK parameters was used for this area. It is noted that the University did provide details of their sewer network and that our assumptions were deemed acceptable.



4.4.3.5 Non-monitored areas

All areas without flow monitoring were assigned the average flow rates (RES and ICI generation applied according to land use), average diurnal pattern, and average RTK parameters that resulted from the calibration results.



5.0 WASTEWATER MODEL CALIBRATION

The process of adjusting model parameters to correlate results with observed data is referred to as model calibration. This calibration process includes an iterative approach to bring key model results within targeted ranges.

5.1 Dry Weather Calibration

5.1.1 Summary

DWF was iteratively adjusted in the model until a target margin of error between observed and modelled results was met. Once calibrated, the resulting flow rates were used to determine mean RES and ICI flow rates and apply them to non-monitored areas. Note the per capita rates (L/cap/d) are within expected ranges. FM15 and FM19 are considered lower and higher within that range, however. These rates are dependent on the upstream population and ICI distribution and as such are sensitive to these. Further investigation into the distribution of the upstream population and ICI distributions could be completed to understand if these are representative, however no impact on the model calibration results would be expected.

The final calibrated flow rates are presented in Table 5-1.

	Mete	ershed Cl	haracteris	stics	Dry Wea	ather Flow	ow (DWF) DWF Rates				
Flow Monitor	Area (ha)1	Buffered Area (ha)2	Population3	ICI Area (ha)4	GWI Flow (L/s)	RES Flow (L/s)	ICI Flow (L/s)	GWI Rate (L/s/ha)5	RES Rate (L/cap/d)	ICI Rate (L/d/ha)6	
FM10	421	140	44	284	13.4	0.1	13.3	0.10	228	4,052	
FM11	229	87	-	167	3.2	-	7.5	0.04	-	3,897	
FM12	298	216	11,965	10	15.4	32.5	1.7	0.07	235	14,222	
FM13	223	158	8,058	53	6.5	23.9	5.9	0.04	256	9,709	
FM14a	32	31	1,539	-	0.9	4.0	-	0.03	223	-	
FM14b	35	31	1,686	5	1.4	4.3	1.9	0.04	222	30,020	
FM15	37	30	1,079	-	1.0	2.2	-	0.03	173	-	
FM16	246	202	8,875	33	10.7	21.2	10.0	0.05	207	26,438	
FM17	224	148	5,821	35	5.5	14.1	1.6	0.04	210	3,960	
FM18	660	458	14,403	37	11.3	34.6	3.9	0.02	207	8,974	
FM19	130	95	2,029	5	6.1	8.1	0.9	0.06	345	14,171	
FM20	458	385	13,762	13	19.2	33.0	3.7	0.05	207	24,122	
FM21	154	130	4,132	14	2.7	9.9	4.3	0.02	207	26,103	
							Average	0.05	227	15,114	
Note 1: Exclude	es upstream ar	eas covered b	y upstream mo	onitors.							

Table 5-1 DWF Calibrated Flow Rates



Note 2: Area from a 50m buffer around sewer. Excludes upstream area covered by upstream monitors.

Note 3: Population in 2019. Excludes upstream population covered by upstream monitors.

Note 4: Total area of ICI parcels. Excludes upstream area covered by upstream monitors.

Note 5: GWI flow rates were calculated using the buffered area.

Note 6: ICI rates were calculated using the ICI full parcel area.

Based on the WAPUG's code of practice, the DWF calibration was carried out for two full dry weather days and the modeled average and peak flows were compared to the observed values. In addition to tracking the overall general shape, the flow hydrographs should meet the following criteria:

- 1. The alignment of the peaks and valleys of the time series should be within 1 hour.
- 2. The peak flows should be within $\pm 10\%$ of each other.
- 3. The 48-hour volume should be within ±10%. Care should be taken to exclude periods of missing or inaccurate data.

The DWF calibration results are presented in Table 5-2, Figure 5-1, and Figure 5-2 for a 48-hrs simulation run (June 17-19, 2020; see Section 4.3.1.3 for justification and implication of selected calibrated period). A logarithmic scale is used to facilitate the comparison of results with order of magnitude differences. The plot comparison of monitored and modeled flow is available in Appendix E. The results are further discussed herein for each flow monitoring site.

Flow Monitor	Moni (June 17-	tored 19, 2020)	Mod (June 17-	eled ·19, 2020)	% Error		
	ADWF (L/s)	PDWF (L/s)	ADWF (L/s)	PDWF (L/s)	ADWF (%)	PDWF (%)	
FM10	27.3	44.2	26.7	40.1	-2%	-9%	
FM11	11.9	26.7	10.8	13.7	-10%	-49%	
FM12	63.6	79.7	60.4	74.1	-5%	-7%	
FM13	67.0	90.9	63.5	82.3	-5%	-9%	
FM14a	22.9	43.4	44.7	59.8	95%	38%	
FM14b	117.1	151.8	142.1	181.0	21%	19%	
FM15	40.6	54.3	44.7	53.4	10%	-2%	
FM16	44.5	54.6	41.5	49.6	-7%	-9%	
FM17	20.9	34.2	21.0	34.8	1%	2%	
FM18	148.0	184.0	148.2	180.9	0%	-2%	
FM19	14.7	26.3	14.7	18.4	0%	-30%	
FM20	75.1	115.8	76.7	104.8	2%	-9%	

Table 5-2	OWF Calibration	Results
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Figure 5-1: Average DWF Calibration Results





Figure 5-2: Peak DWF Calibration Results



5.1.2 Monitor FM10

The DWF calibration results for monitor FM10 are within acceptable range when comparing to monitored flow. Both average and peak flow for the two-day calibration period (June 17-19, 2020) meet the criteria of a 10% margin of error.

5.1.3 Monitor FM11

For monitor FM11, only the average modeled flow was within acceptable range. The peak flow is underestimated by 49% and is caused by a sudden jump in observed flow during the second day of the dry period. Attempts were made to calibrate using a different two-day period, but the inconsistent flow monitoring data for FM11 proved challenging. As such, it was chosen to keep the obtained results with the average modeled flow meeting the criteria of a 10% margin of error. Further considerations are made as a result during the WWF calibration process.

5.1.4 Monitor FM12

The DWF calibration results for monitor FM12 are within acceptable range when comparing to monitored flow. Both average and peak flow for the two-day calibration period (June 17-19, 2020) meet the criteria of a 10% margin of error.

5.1.5 Monitor FM13

The DWF calibration results for monitor FM13 are within acceptable range when comparing to monitored flow. Both average and peak flow for the two-day calibration period (June 17-19, 2020) meet the criteria of a 10% margin of error.

5.1.6 Monitors FM14a and FM14b

For both monitors FM14a and FM14b, the calibration results have not met target margins of error. It was initially thought to be caused by manholes with pipe bifurcation, which allow flow to split between the two monitoring sites. This would have been the case if one had its modeled flow underestimated while the other overestimated. But in this case, both have their average and peak flow overestimated.

The majority of flow at monitors FM14a and FM14b are generated by parameters calibrated from upstream monitors. Given that these upstream sites were calibrated first, it could be that the flow monitoring data might be erroneous. As such, it is possible that the flow monitoring data for FM14a, FM14b or their tributary sites include some inaccuracies.

Upstream sites include FM06, FM07, FM13, FM19 and FM20. The monitored flow at FM14b should approximately be the sum of all the measured flow from these upstream sites. But when looking at the monitored flow, it is largely below the expected theoretical flow.

To verify the flow monitoring data, velocity-depth scattergraphs were plotted (See Appendix D) and compared to expected values based on Manning's equation. The scattergraphs for FM14a and FM14b show that the measured velocity is lower than anticipated. The typical Manning roughness for a sewer system is often assumed to be 0.013. The monitoring data suggests that the sewers at FM14a and FM14b have a roughness of over 0.019, which is unlikely.

It is believed that the monitors FM14a and FM14b are measuring lower velocities, which in turn leads to lower measured flow. This would explain why the modeled flow is overestimated and why the calibration results do not fall within acceptable error margins. Alternatively, if the roughness values are as high as the measured data suggests, then further consideration might be made to represent this. If this is the case, then cleaning is likely warranted. For model calibration purposes, it was recommended to proceed with an appreciation for these findings and assuming a typical roughness value of n = 0.013. Since flow is



overestimated, these meters were kept in the calibration, to be conservative. Further investigation may be of interest.

5.1.7 Monitor FM15

The DWF calibration results for monitor FM15 are within acceptable range when comparing to monitored flow. Both average and peak flow for the two-day calibration period (June 17-19, 2020) meet the criteria of a 10% margin of error.

5.1.8 Monitor FM16

The DWF calibration results for monitor FM16 are within acceptable range when comparing to monitored flow. Both average and peak flow for the two-day calibration period (June 17-19, 2020) meet the criteria of a 10% margin of error.

It is worth mentioning that only velocity and depth data were available for this monitor. Flow was computed from the velocity and depth using Manning's equation with a roughness of 0.016, a diameter of 750mm and a slope of 0.5%. A roughness value of 0.016 was used as it provided a good flow continuity with the measured flow from site FM15 located downstream.

5.1.9 Monitor FM17

The DWF calibration results for monitor FM17 are within acceptable range when comparing to monitored flow. Both average and peak flow for the two-day calibration period (June 17-19, 2020) meet the criteria of a 10% margin of error.

5.1.10 Monitor FM18

Monitor FM18 is located downstream of the Clair-Gordon area (South End), which was modeled and calibrated by others with FM01 through FM 05 and FM09. The existing sub-model was imported and all its calibrated parameters were kept as they were. The calibration accuracy of these upstream sites directly affects the accuracy of site FM18. Once the DWF calibration for FM18 was completed, the peak and average flow met the 10% margin of error.

5.1.11 Monitor FM19

Only the average modeled flow was within acceptable range for monitor FM19. The peak flow is underestimated by 31% and is explained by the presence of an unknown source of regular inflow. The observed data seem to indicate the presence of a pump regularly injecting 5-10 L/s into the collection system. Drawings were reviewed to try and identify the source of this inflow, but the source could not be determined and was outside the purview of the Master Plan to review any further. Further to the City's review of this document, it has been indicated that this inflow may be related to either the Membro well's treatment process discharge (located at 290 Water St) or to the private pumping station servicing a private townhouse complex at 295 Water St. The significance of including this private pump station will be further considered in the existing conditions assessment task.



5.1.12 Monitor FM20

The DWF calibration results for monitor FM20 are within acceptable range when comparing to monitored flow. Both average and peak flow for the two-day calibration period (June 17-19, 2020) meet the criteria of a 10% margin of error.

Table 5-3 provides a comparison of the DWF calibration from the 2017 Nima Trails modelling to the 2023 MP update. The modelled flows between both assignments are considered comparable. An exception may be considered at location NT06 where ~8L/s difference is found.

Flow Monitoring	Nima Trails Model (2		2023 MP Update Model	
	Spring (L/s) Summer (L/s) Average (L/s)		(L/s)	
NT01				
(not used for calibration)				
NT02	3.8	3.0	3.4	3.9
NT03	4.6	3.5	4.1	5.3
NT04				
(not used for calibration)				
NT05				
(not used for calibration)				
NT06	13.3	11.8	12.6	20.5
NT07	40.4	32.3	36.4	42.2
NT08	11.8	12.2	12.0	8.3

Table 5-3: Nima Trails Validation.

5.1.13 Monitor FM21

The DWF calibration results for monitor FM21 are within acceptable range when comparing to monitored flow. Both average and peak flow for the two-day calibration period (June 17-19, 2020) meet the criteria of a 10% margin of error.



5.2 Wet Weather Calibration

5.2.1 Summary

The wet weather response was modeled using the RTK method. Each flow monitoring site is assigned a unit hydrograph composed of 3 sets of 3 parameters. Each set of parameters represents a type of wet weather response: short-term, medium-term, and long-term response. The calibrated parameters for each flow monitoring site are shown at Table 5-4.

The results indicate that the collection system is not susceptible to high rainfall derived inflow and infiltration (RDII), with most R-values being below 1%. This is consistent with the findings from previous consultants. Additional flow monitoring programs are recommended in an attempt to capture larger events with the intent of confirming how the RDII might change under these conditions. These RDII values may be increased during the assessment tasks of this master plan to understand the extent of the implications of higher R-values on the City's wastewater collection system.

The results also indicate that the use of the short-term RDII response parameter (R1, T1, K1) is mostly adequate for calibrating to the flow monitor recorded response. Being limited by the magnitude of available rainfall events, the medium- and long-term RDII responses for some sites was not necessary. This does not equate to there not being medium- or longer-term responses at these locations. It does suggest however that additional calibration to larger events should consider all the response parameters (i.e., short, medium, long term) and not conclude that the findings from this calibration exercise can be extended to larger events.

Flow	Total D	Short Term			Medium Term			Long Term		
Monitor	Total II	R	т	К	R	Т	К	R	Т	К
FM10	0.020 = 2.0%	0.007	0.05	0.4	0.006	0.50	1.5	0.007	3.00	2.5
FM11	0.005 = 0.5%	0.005	0.10	0.4	-	-	-	-	-	-
FM12	0.006 = 0.6%	0.003	0.05	1.5	0.003	5.00	2.5	-	-	-
FM13	0.002 = 0.2%	0.001	0.10	0.4	0.001	1.25	1.5	-	-	-
FM14a	0.033 = 3.3%	0.033	1.25	1.5	-	-	-	-	-	-
FM14b	0.004 = 0.4%	0.004	1.25	1.5	-	-	-	-	-	-
FM15	0.002 = 0.2%	0.002	1.25	1.5	-	-	-	-	-	-
FM16	0.017 = 1.7%	0.004	0.20	1.5	0.006	4.00	2.5	0.007	12.5	5.0
FM17	0.004 = 0.4%	0.004	0.50	1.5	-	-	-	-	-	-
FM18	0.001 = 0.1%	0.001	1.25	1.5	-	-	-	-	-	-
FM19	0.007 = 0.7%	0.004	0.50	1.5	0.002	4.00	2.5	0.001	12.50	5.0
FM20	0.004 = 0.4%	0.004	0.50	1.5	-	-	-	-	-	-

Table 5-4 WWF Calibrated RTK parameters

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Flow Monitor	Total P	S	hort Ter	m	Ме	Medium Term Long Term				
	l otal R	R	т	к	R	т	К	R	т	к
FM21	0.003 = 0.3%	0.003	0.50	1.5	-	-	-	-	-	-

Also based on the WAPUG's code of practice, the wet weather flow (WWF) calibration was carried out using the flow monitoring data. The selected 3 events were based on the magnitude and quality of events obtained and reviewed with the City. Selection considered depth, intensity, and volume. Smaller events are sometimes selected for wet weather flow calibration as these are subject to different inflow characteristics when compared to the larger events.

In addition, the January 10, 2020 rain and snowmelt event were considered as a validation event for FM10, FM20, and FM21. Data from this larger event was not available for the other sites used for calibration.

The modeled flow was compared to the observed values from the corresponding rainfall event. The hydrographs should closely follow each other both in shape and in magnitude, until they substantially return to DWF conditions. In addition to the shape, the observed and modeled hydrographs should meet the following criteria for most of the events considered.

- 1. The timing of the peaks and valleys should be similar for the duration of the event.
- 2. The peak flow rates at each significant peak should be in the range of -15% to +25%.
- 3. The volume of flow should be within -10% to +20%.

The WWF calibration results are presented at Table 5-5, Figure 5-5, Figure 5-3, and Figure 5-4 for a 48-hrs simulation run. The plot comparison of monitored and modeled flow is available in Appendix E. The results are further discussed below for each flow monitoring site.

Flow		Assigned Rain Gauge	Doturn	Monitored		Mode	led	% Error	
Meter	WWF Event		Period	Volume (m3)	Peak (L/s)	Volume (m3)	Peak (L/s)	Volume (m3)	Peak (L/s)
	Jan 11, 2020 (Validation)	West End	>50 yrs	16,290	175.4	7,337	85.3	-55%	-51%
FM10	May 29, 2020		>9 mths	4,847	96.1	5,233	90.5	8%	-6%
	Jun 10, 2020		>9 mths	6,058	101.3	5,571	97.7	-8%	-4%
	Jul 10, 2020		>9 mths	4,156	97.6	4,919	120.4	18%	23%
FM11	May 29, 2020	West End	>9 mths	1,690	52.1	1,612	31.7	-5%	-39%

Table 5-5WWF Calibration Results



Flow Meter	WWF Event	Assigned Rain Gauge	Return Period	Monitored		Modeled		% Error	
				Volume (m3)	Peak (L/s)	Volume (m3)	Peak (L/s)	Volume (m3)	Peak (L/s)
	Jun 10, 2020		>9 mths	2,935	38.5	2,659	34.3	-9%	-11%
	Jul 10, 2020		>9 mths	1,666	31.1	1,691	38.4	2%	23%
FM12	May 29, 2020	West End	>9 mths	8,677	96.4	8,630	91.4	-1%	-5%
	Jun 10, 2020		>9 mths	10,987	118.3	11,614	108.0	6%	-9%
	Jul 10, 2020		>9 mths	7,142	102.1	7,297	113.8	2%	11%
FM13	May 29, 2020	RG02	>9 mths	11,303	132.6	11,631	136.8	3%	3%
	Jun 10, 2020		>1 yr	12,513	143.6	12,039	142.2	-4%	-1%
	Jul 10, 2020		>1 yr	10,432	136.9	11,419	169.7	9%	24%
FM14a	May 29, 2020	RG02	>9 mths	4,106	54.2	7,892	80.8	92%	49%
	Jun 10, 2020		>1 yr	4,479	60.2	8,476	111.6	89%	85%
	Jul 10, 2020		>1 yr	4,910	78.7	8,576	115.2	75%	46%
FM14b	May 29, 2020	RG02	>9 mths	21,922	218.7	25,480	256.0	16%	17%
	Jun 10, 2020		>1 yr	23,119	251.6	26,789	317.4	16%	26%
	Jul 10, 2020		>1 yr	21,540	267.5	26,324	336.7	22%	26%
FM15	May 29, 2020	RG02	>9 mths	7,019	74.9	8,005	71.4	14%	-5%



Flow Meter	WWF Event	Assigned Rain Gauge	D . 1	Monitored		Modeled		% Error	
			Period	Volume (m3)	Peak (L/s)	Volume (m3)	Peak (L/s)	Volume (m3)	Peak (L/s)
	Jun 10, 2020		>1 yr	7,373	72.6	8,795	89.5	19%	23%
	Jul 10, 2020		>1 yr	7,978	119.2	8,962	122.2	12%	3%
FM16	May 29, 2020	RG02	>9 mths	8,270	76.8	7,445	67.8	-10%	-12%
	Jun 10, 2020		>1 yr	7,952	72.3	8,221	85.0	3%	17%
	Jul 10, 2020		>1 yr	7,801	96.5	8,385	117.9	7%	22%
FM17	May 29, 2020	Helmar Well	>1 yr	3,797	44.9	3,720	45.5	-2%	1%
	Jun 10, 2020		>1 yr	3,788	46.3	3,875	51.8	2%	12%
	Jul 10, 2020		>2 yrs	3,838	67.6	3,947	63.9	3%	-5%
FM18	May 29, 2020	RG01	<3 mths	24,093	183.9	25,634	181.0	6%	-2%
	Jun 10, 2020		>1 yr	25,533	196.2	26,608	242.9	4%	24%
	Jul 10, 2020		>3 mths	22,146	161.8	25,884	194.2	17%	20%
FM19	May 29, 2020	RG02	>9 mths	2,868	27.8	2,595	26.2	-10%	-6%
	Jun 10, 2020		>1 yr	2,705	29.3	2,747	30.9	2%	6%
	Jul 10, 2020		>1 yr	2,830	44.6	2,789	44.3	-1%	-1%
FM20	Jan 11, 2020 (Validation)	Helmar Well	>100 yrs	44,927	390.2	15,523	178.7	-65%	-54%

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City of Guelph W&WW Servicing MP: Model Update, Field Testing and Calibration TM 75-41-191370

Flow Meter	WWF Event	Assigned Rain Gauge	Return Period	Monitored		Modeled		% Error	
				Volume (m3)	Peak (L/s)	Volume (m3)	Peak (L/s)	Volume (m3)	Peak (L/s)
	May 29, 2020		>1 yr	14,217	131.8	13,526	139.5	-5%	6%
	Jun 10, 2020		>1 yr	14,197	148.7	14,056	155.2	-1%	4%
	Jul 10, 2020		>2 yrs	N/A	N/A	N/A	N/A	N/A	N/A
FM21	Jan 11, 2020 (Validation)	RG02	>100 yrs	8,230	69.8	2,875	25.3	-65%	-64%
	May 29, 2020		>9 mths	2,660	27.2	2,673	28.4	0%	4%
	Jun 10, 2020		>1 yr	2,815	29.3	2,762	29.5	-2%	1%
	Jul 10, 2020		>1 yr	2,770	35.3	2,776	43.1	0%	22%



Figure 5-3: WWF Calibration Results (June 10, 2020)



Figure 5-4: WWF Calibration Results (July 10, 2020)



Figure 5-5: WWF Validation Results (May 29, 2020)



Figure 5-6: WWF Validation Results (January 11, 2020)



5.2.2 Monitor FM10

Wet weather flow for monitor FM10 was calibrated using the June and July events. The RTK parameters were calibrated so that the modeled flow falls within acceptable range for both events. Target margin of errors were achieved but it did require some adjustments in modeled dry weather flow (DWF). GWI had to be reduced by 30% in the July event to achieve a peak flow error below 25% and the volume below 20%.

The calibrated RTKs were then validated using the May 29 event. Once again, GWI needed to be adjusted to reach target margins of error. This time, GWI was increased by 10%. Peak flow for the May event is slightly underestimated by 6%. The results for the three wet weather events (May, June, and July) show that less intense events slightly underestimate, while more intense events slightly overestimate the peak flow.

For further validation, the January 10 event, equivalent to a 50-year event, was run as well. The results show that the peak flow and volume are greatly underestimated by over 50%. This is partly explained by the unknown contribution from snowmelt that is not accounted for in the model. Given the lack of data concerning the snow cover, it is impossible to evaluate the exact amount of flow contributed by snowmelt.

Given that both peak and volume are greatly underestimated for the January 50-year event, an increase of the calibrated R-values may be warranted to stress the system.

5.2.3 Monitor FM11

Wet weather flow for monitor FM11 was calibrated using the June and July events. The RTK parameters were calibrated so that the modeled flow falls within acceptable range for both events. Target margin of errors were achieved but it did require some adjustments in modeled dry weather flow (DWF). As previously mentioned, monitor FM11 shows high volatility in its measured flow. Dry weather flow can vary from one week to another and even from two consecutive days at this location.

For the June wet weather event, ADSF needed to be increased by 50% to meet target range. On the other hand, the July event required ADSF to be decreased by 50% on the second simulated day (Saturday).

Once calibrated, the RTK parameters were validated with the May 29 event. Like the July event, ADSF was decreased on the second simulated day (Saturday). Modeled peak flow did not meet the observed flow within acceptable range, but the total volume and the general shape of the hydrograph are similar. Given the low quality of data from monitor FM11, it is possible that the measured peak flow might be an aberration. Given that the peak flow was met for both the June and July events, the wet weather calibration is considered to be adequate.

5.2.4 Monitor FM12

Wet weather flow for monitor FM12 was calibrated using the June and July events. The RTK parameters were calibrated so that the modeled flow falls within acceptable range for both events. Target margin of errors were achieved but it did require some adjustments in modeled dry weather flow (DWF). Total DWF had to be reduced by 40% in the July event to achieve a peak flow error below 25% and the volume below 20%.

The calibrated RTKs were then validated using the May 29 event. Once again, DWF needed to be adjusted to reach target margins of error. This time, DWF was decreased by 20%. Peak flow for the May event is slightly underestimated by 5%. The results for the three wet weather events (May, June, and July) show that less intense events slightly underestimate, while more intense events slightly overestimate the peak flow.



5.2.5 Monitor FM13

Wet weather flow for monitor FM13 was calibrated using the June and July events. The RTK parameters were calibrated so that the modeled flow falls within acceptable range for both events. The calibrated RTKs were then validated using the May 29 event. Target margin of errors were achieved for all three wet weather events (May, June, and July).

5.2.6 Monitors FM14a and FM14b

For monitors FM14a and FM14b, both peak flow and volume are overestimated. As explained in the dry weather calibration section, it could be that there are some inaccuracies within the flow monitoring data for FM14a, FM14b or the meters in their upstream tributary sites. Considering that these upstream sites have been calibrated first, it is suspected that the flow monitoring data at FM14a and 14b might be erroneous.

The expected theoretical flow at FM14b should approximately be the sum of all the measured flow coming from upstream sites, which include FM06, FM07, FM13, FM19 and FM20. The monitored flow at FM14b shows lower flow than what is anticipated. For this reason, it is believed that the flow monitoring data is inaccurate for one or several of these sites. As such, the calibration results for FM14a and FM14b do not fall within acceptable error margins. Since flow is overestimated, the model calibration is maintained as is and is considered conservative. Further investigation of these specific locations may be of interest.

5.2.7 Monitor FM15

Wet weather flow for monitor FM15 was calibrated using the June and July events. The RTK parameters were calibrated so that the modeled flow falls within acceptable range for both events. The calibrated RTKs were then validated using the May 29 event. Target margin of errors were achieved for all three wet weather events (May, June, and July).

5.2.8 Monitor FM16

Wet weather flow for monitor FM16 was calibrated using the June and July events. The RTK parameters were calibrated so that the modeled flow falls within acceptable range for both events. The calibrated RTKs were then validated using the May 29 event. Target margin of errors were achieved for all three wet weather events (May, June, and July).

5.2.9 Monitor FM17

Wet weather flow for monitor FM17 was calibrated using the June and July events. The RTK parameters were calibrated so that the modeled flow falls within acceptable range for both events. The calibrated RTKs were then validated using the May 29 event. Target margin of errors were achieved for all three wet weather events (May, June, and July).

5.2.10 Monitor FM18

Wet weather flow for monitor FM18 was calibrated using the June and July events. The RTK parameters were calibrated so that the modeled flow falls within acceptable range for both events. The calibrated RTKs were then validated using the May 29 event. Target margin of errors were achieved for all three wet weather events (May, June, and July).

Monitor FM18 is located downstream of the Clair-Gordon area (South End), which was modeled and calibrated by Civica. Their existing model was imported into the new model and all its calibrated parameters were kept as they were. The monitors used in Civica's calibration were FM01 through FM05 and FM09. The calibration accuracy of these upstream sites directly affects the accuracy of site FM18.



5.2.11 Monitor FM19

Wet weather flow for monitor FM19 was calibrated using the June and July events. The RTK parameters were calibrated so that the modeled flow falls within acceptable range for both events. The calibrated RTKs were then validated using the May 29 event. Target margin of errors were achieved for all three wet weather events (May, June, and July).

The observed data seem to indicate the presence of a pump regularly injecting 5-10 L/s into the collection system. Drawings were reviewed to try and identify the source of this inflow, but none was found. Ulterior information from the City indicated that this inflow may be related to either the Membro well's treatment process discharge (located at 290 Water St) or to the private pumping station servicing a private townhouse complex at 295 Water St. Additional details to confirm the source will be requested and possibly included in the existing and future condition assessments if the contribution is deemed significant to the assessment.

5.2.12 Monitor FM20

Wet weather flow for monitor FM20 was calibrated using only the June event because data was not available for July. The RTK parameters were calibrated so that the modeled flow falls within acceptable range. The calibrated RTKs were then validated using the May 29 event. Target margin of errors were achieved for both wet weather events (May and June).

For further validation, the January 10 event, equivalent to a 50-year event, was run as well. The results show that the peak flow and volume are greatly underestimated by over 50%. This is partly explained by the unknown contribution from snowmelt that is not accounted for in the model. Given the lack of data concerning the snow cover, it is hard to evaluate the exact amount of flow contributed by snowmelt. Additional flow monitoring may be of interest to further understand the response to snow melt in the collection system.

Given that both peak and volume are greatly underestimated for the January 50-year event, an increase of the calibrated R-values may be warranted to stress the system during the existing and future condition assessment tasks.

5.2.13 Monitor FM21

Wet weather flow for monitor FM21 was calibrated using the June and July events. The RTK parameters were calibrated so that the modeled flow falls within acceptable range for both events. The calibrated RTKs were then validated using the May 29 event. Target margin of errors were achieved for all three wet weather events (May, June, and July).

For further validation, the January 10 event, equivalent to a 10-year event, was run as well. The results show that the peak flow and volume are greatly underestimated by over 50%. This is partly explained by the unknown contribution from snowmelt that is not accounted for in the model. Given the lack of data concerning the snow cover, it is hard to evaluate the exact amount of flow contributed by snowmelt. Additional flow monitoring may be of interest to further understand the response to snow melt in the collection system.

Given that both peak and volume are greatly underestimated for the January 50-year event, an increase of the calibrated R-values may be warranted to stress the system during the existing and future condition assessment tasks.



6.0 SUMMARY AND RECOMMENDATIONS

6.1 Water Model Update

The update of the City's hydraulic model included 2020 GIS infrastructure data, 2019 geocoded water billing records, and SCADA data. The resulting model simulated existing conditions within reasonable accuracy for purposes of Master Planning.

Additional field testing and calibration is not required for the purpose of the Master Plan. As the model is also used for operational and planning purposes, it is recommended that a second phase of field testing occur to fine tune the model, when possible. For accurate operational level modeling to investigate in greater detail at specific locations, it is recommended that detailed and localized information be gathered. Since the largest unknown is the water consumption usage patterns, it is recommended that the DMAs be isolated, and testing occur within the isolated DMAs.

To further improve the model accuracy, it is recommended that additional field testing and calibration is completed in select DMAs. A Phase 2 field-testing plan will be developed for review by the City.

6.2 Wastewater Model Update

The model was calibrated to a range of rainfall events with the available data provided. One of the validation events considered was an ~50year event concurrent to a snow melt occurrence. The system response during this event was significant and greater than any recorded from the events used for the model calibration completed. As a result, it is worth exploring if the existing and future condition assessments should consider the use of increased RDII producing "R" parameters to ensure the collection system can accommodate these larger events. Additionally, increased snow cover and snow melt monitoring may be beneficial for future studies.

The flow monitoring coverage was generally sufficient for the purposes of this Master Plan, nevertheless increasing data coverage can be beneficial for future Master Planning initiatives. This could be achieved by continuing with regular sewer flow monitoring and rainfall monitoring programs to collect data for this purpose.

6.3 Water & Wastewater Common Recommendations

In addition to ongoing improvements, it is recommended that the model data and calibration be updated every 1-2 years to keep the models current.

For the water model, this includes maintaining annual data for water billing records, water production, GIS pipe data, control strategies and pressure zone boundary changes.

For the wastewater model, this includes considering recalibrating to more recent and appropriate flow monitoring and collecting rainfall data, updates to the GIS database, operational updates, etc.

6.4 Next Steps

The next steps for the upcoming existing and future conditions assessment tasks include:

- 1. Existing Conditions Assessments
 - a. Establish if details for the Membro well and treatment process or the private pumping station at 295 Water Street are available. Review and agree to a consideration for the master plan going forward.



- b. Assess the existing conditions model for the targeted level of service and identify opportunities and constraints.
 - i. Wastewater review the parameters and explore if increased RDII "R" parameters should be used. (i.e., in response to the higher flows seen during the January 2020 validation event than predicted by the calibrated model)
- 2. Future Conditions Assessments
 - a. Develop future conditions scenarios based on population and growth area projections provided by the City's planning department.
 - b. Implement planned capital improvements in the future conditions' models.
 - c. Assess the future conditions models for the targeted level of service and identify opportunities and constraints.



APPENDIX A

Water Model Calibration Results



ADD – Dynamic Controls - Pressure
















10 0 23/10/19 00:00 23/10/19 12:00 SCADA Model 24/10/19 00:00



















Pre









23/10/19 12:00 • SCADA ---- Model 24/10/19 00:00

50 23/10/19 00:00







MDD – Dynamic Controls - Pressure















































MDD – Time Controls - Pressure





























DMA Chamber 12-1 (Zone 2) Pressure







80

DMA Chamber 14-2 (Zone 2) Pressure





























MDD – Time Controls - Flow













• SCADA ---- Model

-10 -15

































APPENDIX B

Wastewater Model Gap Analysis

CONDUIT ID					LENGTH_SOURCE		DOWNINVERT_SOURCE	SLOPE_SOURCE
	11 City GIS received on May 29, 2020	City GIS received on May 29, 2020	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed length	2013 DC Study Model	2013 DC Study Model	Computed slope
	16 City GIS received on May 29, 2020	City GIS received on May 29, 2020	Dummy node created for missing outlet for WWSMP 2020	City GIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed slope
	50 City GIS received on May 29, 2020	Dummy node created for missing inlet for WWSMP 2020	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed length	2013 DC Study Model	City GIS received on May 29, 2020	Computed slope
	64 City GIS received on May 29, 2020	Dummy node created for missing inlet for WWSMP 2020	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed slope
	80 City GIS received on May 29, 2020	Dummy node created for missing inlet for WWSMP 2020	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed slope
	84 City CIS received on May 29, 2020	Dummy node created for missing inlet for WWSMP 2020	City GIS received on May 29, 2020	City CIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	City GIS received on May 29, 2020	
	84 City CIS received on May 29, 2020	City CIS received on May 20, 2020	City CIS received on May 29, 2020	City CIS received on May 29, 2020	Computed length	City CIS received on May 29, 2020	Engineering judgment for M/MCMD 2020	
	86 City GIS received on May 29, 2020	City GIS received on May 29, 2020	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	Engineering judgment for WWSMP 2020	Computed slope
	88 City GIS received on May 29, 2020	City GIS received on May 29, 2020	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed length	Engineering judgment for WWSMP 2020	City GIS received on May 29, 2020	Computed slope
	89 City GIS received on May 29, 2020	Dummy node created for missing inlet for WWSMP 2020	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed length	2013 DC Study Model	2013 DC Study Model	Computed slope
	93 City GIS received on May 29, 2020	Dummy node created for missing inlet for WWSMP 2020	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed slope
	94 City GIS received on May 29, 2020	City GIS received on May 29, 2020	Dummy node created for missing outlet for WWSMP 2020	City GIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed slope
	96 City GIS received on May 29, 2020	City GIS received on May 29, 2020	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	2013 DC Study Model	Computed slope
	139 City GIS received on May 29, 2020	Dummy node created for missing inlet for WWSMP 2020	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed slope
	167 City CIS received on May 29, 2020	Dummy node created for missing inlet for WWSMP 2020	City GIS received on May 29, 2020	City CIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed slope
	171 City GIS received on May 29, 2020	Dummy hode created for missing inlet for WWSMP 2020	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed slope
	188 City GIS received on May 29, 2020	City GIS received on May 29, 2020	Dummy node created for missing outlet for WWSMP 2020	City GIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed slope
2	212 City GIS received on May 29, 2020	City GIS received on May 29, 2020	Dummy node created for missing outlet for WWSMP 2020	City GIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed slope
2	213 City GIS received on May 29, 2020	Dummy node created for missing inlet for WWSMP 2020	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed slope
2	216 City GIS received on May 29, 2020	City GIS received on May 29, 2020	Dummy node created for missing outlet for WWSMP 2020	City GIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed slope
2	236 City GIS received on May 29, 2020	Dummy node created for missing inlet for WWSMP 2020	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed slope
	257 City GIS received on May 29, 2020	Corrected and filled missing inlet ID for WWSMP 2020	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed slope
	264 City GIS received on May 29, 2020	Dummy node created for missing inlet for WWSMP 2020	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed slope
	272 City CIS received on May 29, 2020	City CIS received on May 20, 2020	Dummy node prested for missing outlet for WWSMP 2020	City CIS received on May 20, 2020	Computed length	City CIS received on May 20, 2020	City CIS received on May 20, 2020	
			City CIC reactived on May 00,0000					
	2/3 Uity GIS received on May 29, 2020	Dumining node created for missing inlet for WWSMP 2020	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	Uty GIS received on May 29, 2020	Computed slope
2	283 City GIS received on May 29, 2020	City GIS received on May 29, 2020	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	2013 DC Study Model	Computed slope
2	286 City GIS received on May 29, 2020	Dummy node created for missing inlet for WWSMP 2020	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed length	2013 DC Study Model	City GIS received on May 29, 2020	Computed slope
2	289 City GIS received on May 29, 2020	City GIS received on May 29, 2020	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed length	2013 DC Study Model	City GIS received on May 29, 2020	Computed slope
2	296 City GIS received on May 29, 2020	Dummy node created for missing inlet for WWSMP 2020	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed length	2013 DC Study Model	City GIS received on May 29, 2020	Computed slope
	299 City GIS received on May 29, 2020	City GIS received on May 29. 2020	City GIS received on May 29. 2020	City GIS received on May 29, 2020	Computed length	2013 DC Study Model	City GIS received on May 29, 2020	Computed slope
	300 City GIS received on May 29, 2020	City GIS received on May 29, 2020	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed length	2013 DC Study Model	2013 DC Study Model	
	City CIC received on May 29, 2020	City CID received on May 29, 2020	Divy City City Received on May 29, 2020	City CIS received on May 29, 2020				
	303 City GIS received on May 29, 2020	City GIS received on May 29, 2020	Dummy hode created for missing outlet for WWSMP 2020	City GIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed slope
	307 City GIS received on May 29, 2020	City GIS received on May 29, 2020	Corrected and filled missing outlet ID for WWSMP 2020	City GIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed slope
3	309 City GIS received on May 29, 2020	Dummy node created for missing inlet for WWSMP 2020	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed slope
	331 City GIS received on May 29, 2020	City GIS received on May 29, 2020	Dummy node created for missing outlet for WWSMP 2020	City GIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed slope
3	355 City GIS received on May 29, 2020	City GIS received on May 29, 2020	Dummy node created for missing outlet for WWSMP 2020	City GIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed slope
	359 City GIS received on May 29, 2020	Dummy node created for missing inlet for WWSMP 2020	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed slope
	424 City GIS received on May 29, 2020	Corrected and filled missing inlet ID for WWSMP 2020	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed slope
	127 City CIS received on May 29, 2020	Dummy node created for missing inlet for WWSMP 2020	City GIS received on May 29, 2020	City CIS received on May 29, 2020	Computed length	2013 DC Study Model	City GIS received on May 29, 2020	Computed slope
	437 City CIS received on May 29, 2020	Corrected and filled missing inlet ID for WWSMP 2020	City CIS received on May 29, 2020	City CIS received on May 29, 2020	Computed length	City CIS received on May 20, 2020	City CIS received on May 29, 2020	
2	439 City GIS received on May 29, 2020	Corrected and filled missing inlet ID for WWSMP 2020	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed slope
2	440 City GIS received on May 29, 2020	City GIS received on May 29, 2020	Dummy node created for missing outlet for WWSMP 2020	City GIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed slope
2	442 City GIS received on May 29, 2020	City GIS received on May 29, 2020	Dummy node created for missing outlet for WWSMP 2020	City GIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed slope
4	443 City GIS received on May 29, 2020	City GIS received on May 29, 2020	Dummy node created for missing outlet for WWSMP 2020	City GIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed slope
	446 City GIS received on May 29, 2020	City GIS received on May 29, 2020	Dummy node created for missing outlet for WWSMP 2020	City GIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed slope
4	447 City GIS received on May 29, 2020	City GIS received on May 29, 2020	Dummy node created for missing outlet for WWSMP 2020	City GIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed slope
	461 City GIS received on May 29, 2020	City GIS received on May 29, 2020	Corrected and filled missing outlet ID for WWSMP 2020	City GIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed slope
	462 City GIS received on May 29, 2020	City GIS received on May 29, 2020	Corrected and filled missing outlet ID for WWSMP 2020	City GIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed slope
	402 Oity CIS received on May 29, 2020	City CID received on May 29, 2020	Durrent und an et al far missing outlet for WWOW 2020				City CIC received on May 29, 2020	
2	465 City GIS received on May 29, 2020	City GIS received on May 29, 2020	Dummy hode created for missing outlet for WWSMP 2020	City GIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed slope
2	469 City GIS received on May 29, 2020	Corrected and filled missing inlet ID for WWSMP 2020	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed slope
	471 City GIS received on May 29, 2020	City GIS received on May 29, 2020	Dummy node created for missing outlet for WWSMP 2020	City GIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed slope
	474 City GIS received on May 29, 2020	Dummy node created for missing inlet for WWSMP 2020	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed slope
	479 City GIS received on May 29, 2020	Dummy node created for missing inlet for WWSMP 2020	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed slope
	486 City GIS received on May 29, 2020	City GIS received on May 29, 2020	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	2013 DC Study Model	Computed slope
	491 City GIS received on May 29, 2020	City GIS received on May 29, 2020	Dummy node created for missing outlet for WWSMP 2020	City GIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed slope
	496 City GIS received on May 20, 2020	City GIS received on May 29, 2020	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed length	2013 DC Study Model	City GIS received on May 29, 2020	Computed slope
	407 City CIS received on May 29, 2020	City GIS received on May 20, 2020	Corrected and filled missing outlet ID for M/M/CMD 0000	City CIS received on May 20, 2020	Computed length	City GIS received on May 20, 2000	City CIS received on May 20, 2020	
						City GIS received on May 29, 2020		
	buz Uity GIS received on May 29, 2020	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Uity GIS received on May 29, 2020	Computed length	Engineering judgment for WWSMP 2020	Uty GIS received on May 29, 2020	Computed slope
5	504 City GIS received on May 29, 2020	City GIS received on May 29, 2020	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	Engineering judgment for WWSMP 2020	Computed slope
	511 City GIS received on May 29, 2020	City GIS received on May 29, 2020	Dummy node created for missing outlet for WWSMP 2020	City GIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed slope
5	513 City GIS received on May 29, 2020	Corrected and filled missing inlet ID for WWSMP 2020	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed slope
E	531 City GIS received on May 29, 2020	City GIS received on May 29, 2020	Dummy node created for missing outlet for WWSMP 2020	City GIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed slope
F	532 City GIS received on May 29, 2020	City GIS received on May 29, 2020	Dummy node created for missing outlet for WWSMP 2020	City GIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	Engineering judgment for WWSMP 2020	Computed slope
	535 City GIS received on May 20, 2020	City GIS received on May 29, 2020	Dummy node created for missing outlet for WW/SMP 2020	City GIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed slope
	535 City CIS received on May 29, 2020	Dummu node exected for missing inlet for WWCMD 0000	City CIC received on May 00, 0000	City CIS received on May 29, 2020	Computed length	City CIS received on May 29, 2020	City CIS received on May 29, 2020	
		Durning houe created for missing inlet for WWSMP 2020						
	545 City GIS received on May 29, 2020	City GIS received on May 29, 2020	Dummy node created for missing outlet for WWSMP 2020	City GIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed slope
5	547 City GIS received on May 29, 2020	Dummy node created for missing inlet for WWSMP 2020	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed slope
ŧ	596 City GIS received on May 29, 2020	City GIS received on May 29, 2020	Dummy node created for missing outlet for WWSMP 2020	City GIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	Engineering judgment for WWSMP 2020	Computed slope
6	615 City GIS received on May 29, 2020	Dummy node created for missing inlet for WWSMP 2020	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed slope
E E	616 City GIS received on May 29, 2020	Dummy node created for missing inlet for WWSMP 2020	Dummy node created for missing outlet for WWSMP 2020	City GIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed slope
	662 City GIS received on May 29, 2020	City GIS received on May 29, 2020	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed length	2013 DC Study Model	City GIS received on May 29, 2020	Computed slope
	663 City GIS received on May 20, 2020	City GIS received on May 20, 2020	City GIS received on May 20, 2020	City GIS received on May 20, 2020	Computed longth	City GIS received on May 20, 2000	2013 DC Study Model	Computed along
						City CIC received on May 29, 2020		
	by Uity GIS received on May 29, 2020	Uny GIS received on May 29, 2020	Uny GIS received on May 29, 2020	Uity GIS received on May 29, 2020	Computed length	Uny GIS received on May 29, 2020	2013 DC Study Model	Computed slope
	707 City GIS received on May 29, 2020	City GIS received on May 29, 2020	Dummy node created for missing outlet for WWSMP 2020	City GIS received on May 29, 2020	Computed length	2013 DC Study Model	City GIS received on May 29, 2020	Computed slope
7	725 City GIS received on May 29, 2020	City GIS received on May 29, 2020	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed length	2013 DC Study Model	City GIS received on May 29, 2020	Computed slope
7	778 City GIS received on May 29, 2020	City GIS received on May 29, 2020	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	2013 DC Study Model	Computed slope
7	779 City GIS received on May 29, 2020	City GIS received on May 29, 2020	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed length	2013 DC Study Model	2013 DC Study Model	Computed slope
\$	810 City GIS received on May 29, 2020	City GIS received on May 29, 2020	Corrected and filled missing outlet ID for WWSMP 2020	City GIS received on May 29. 2020	Computed length	City GIS received on May 29. 2020	City GIS received on May 29. 2020	Computed slope
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CONDUIT ID	ID_SOURCE		OUTLET_ID_SOURCE	DIAMETER_SOURCE	LENGTH_SOURCE		DOWNINVERT_SOURCE	SLOPE_SOURCE
	811 City GIS received on May 29, 2020	Corrected and filled missing inlet ID for WWSMP 2020	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed slope
	825 City GIS received on May 29, 2020	City GIS received on May 29, 2020	Dummy node created for missing outlet for WWSMP 2020	City GIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed slope
	832 City GIS received on May 29, 2020	City GIS received on May 29, 2020	Dummy node created for missing outlet for WWSMP 2020	City GIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed slope
	837 City GIS received on May 29, 2020	City GIS received on May 29, 2020	Dummy node created for missing outlet for WWSMP 2020	City GIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed slope
	852 City GIS received on May 29, 2020	City GIS received on May 29, 2020	Dummy node created for missing outlet for WWSMP 2020	City GIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed slope
	903 City GIS received on May 29, 2020	City GIS received on May 29, 2020	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	Engineering judgment for WWSMP 2020	Computed slope
	906 City GIS received on May 29, 2020	Dummy node created for missing inlet for WWSMP 2020	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed slope
	910 City GIS received on May 29, 2020	City GIS received on May 29, 2020	Dummy node created for missing outlet for WWSMP 2020	City GIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	City GIS received on May 29, 2020	
	016 City CIS received on May 20, 2020	Dummu node exected for missing inlet for WWCMD 2020	City CIC received on May 00, 0000	City CIS received on May 29, 2020	Computed length	2012 DC Study Model	City CIS received on May 20, 2020	
	927 City GIS received on May 29, 2020	City GIS received on May 29, 2020	Dummy node created for missing outlet for WWSMP 2020	City GIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed slope
	941 City GIS received on May 29, 2020	City GIS received on May 29, 2020	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed length	2013 DC Study Model	2013 DC Study Model	Computed slope
	952 City GIS received on May 29, 2020	City GIS received on May 29, 2020	Dummy node created for missing outlet for WWSMP 2020	City GIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed slope
	954 City GIS received on May 29, 2020	Dummy node created for missing inlet for WWSMP 2020	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed slope
	955 City GIS received on May 29, 2020	City GIS received on May 29, 2020	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed length	2013 DC Study Model	2013 DC Study Model	Computed slope
	959 City GIS received on May 29, 2020	City GIS received on May 29, 2020	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed length	2013 DC Study Model	2013 DC Study Model	Computed slope
	961 City GIS received on May 29, 2020	City GIS received on May 29, 2020	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed length	Engineering judgment for WWSMP 2020	Engineering judgment for WWSMP 2020	Computed slope
	968 City GIS received on May 29, 2020	Dummy node created for missing inlet for WWSMP 2020	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed length	2013 DC Study Model	City GIS received on May 29, 2020	Computed slope
	992 City GIS received on May 29, 2020	Dummy node created for missing inlet for WWSMP 2020	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed slope
	993 City GIS received on May 29, 2020	City GIS received on May 29, 2020	Dummy node created for missing outlet for WWSMP 2020	City GIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed slope
	994 City GIS received on May 29, 2020	City GIS received on May 29, 2020	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed length	2013 DC Study Model	2013 DC Study Model	
	1005 City CIS received on May 29, 2020	City CIS received on May 29, 2020	Dummy node created for missing outlet for WWSMP 2020	City CIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	City CIS received on May 20, 2020	
		City CIS received on May 29, 2020	City CIC received on May 00, 0000	City CIS received on May 29, 2020		City CIS received on May 29, 2020		
	1007 City GIS received on May 29, 2020	City GIS received on May 29, 2020	City GIS received on May 29, 2020	City GIS received on May 29, 2020		City GIS received on May 29, 2020		
	TUTT City GIS received on May 29, 2020	City GIS received on May 29, 2020	Durnimy node created for missing outlet for WWSMP 2020	City GIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed slope
	1012 City GIS received on May 29, 2020	Dummy node created for missing inlet for WWSMP 2020	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed slope
	1025 City GIS received on May 29, 2020	Dummy node created for missing inlet for WWSMP 2020	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed length	2013 DC Study Model	City GIS received on May 29, 2020	Computed slope
	1028 City GIS received on May 29, 2020	Dummy node created for missing inlet for WWSMP 2020	City GIS received on May 29, 2020	2013 DC Study Model	Computed length	2013 DC Study Model	City GIS received on May 29, 2020	Computed slope
	1039 City GIS received on May 29, 2020	City GIS received on May 29, 2020	Dummy node created for missing outlet for WWSMP 2020	City GIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed slope
	1041 City GIS received on May 29, 2020	Dummy node created for missing inlet for WWSMP 2020	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed slope
	1042 City GIS received on May 29, 2020	City GIS received on May 29, 2020	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed length	Engineering judgment for WWSMP 2020	Engineering judgment for WWSMP 2020	Computed slope
	1050 City GIS received on May 29, 2020	Dummy node created for missing inlet for WWSMP 2020	Dummy node created for missing outlet for WWSMP 2020	City GIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed slope
	1052 City GIS received on May 29, 2020	City GIS received on May 29, 2020	Dummy node created for missing outlet for WWSMP 2020	City GIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed slope
	1085 City GIS received on May 29, 2020	City GIS received on May 29, 2020	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed length	2013 DC Study Model	City GIS received on May 29, 2020	Computed slope
	1088 City GIS received on May 29, 2020	City GIS received on May 29, 2020	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed length	2013 DC Study Model	City GIS received on May 29, 2020	
	1000 City CIS received on May 29, 2020	City GIS received on May 29, 2020	City CIS received on May 29, 2020	City CIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	2013 DC Study Model	
	1120 City CIS received on May 29, 2020	Carrented and filled missing inlet ID for WW/SMP 2020	City CIS received on May 29, 2020	City CIS received on May 29, 2020	Computed length	City CIS received on May 29, 2020	City CIS received on May 20, 2020	
	1150 City CIS received on May 29, 2020	City CIS received on May 20, 2020	City CIS received on May 29, 2020	City CIS received on May 29, 2020	Computed length	City GIS received off May 29, 2020	City CIS received on May 29, 2020	
	1150 City GIS received on May 29, 2020	City GIS received on May 29, 2020	City GIS received on May 29, 2020	City GIS received on May 29, 2020				
	1155 City GIS received on May 29, 2020	Dummy hode created for missing inlet for WWSMP 2020	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed length		City GIS received on May 29, 2020	Computed slope
	1181 City GIS received on May 29, 2020	City GIS received on May 29, 2020	Dummy node created for missing outlet for WWSMP 2020	City GIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed slope
	1184 City GIS received on May 29, 2020	City GIS received on May 29, 2020	Dummy node created for missing outlet for WWSMP 2020	City GIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed slope
	1187 City GIS received on May 29, 2020	City GIS received on May 29, 2020	Dummy node created for missing outlet for WWSMP 2020	City GIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed slope
	1190 City GIS received on May 29, 2020	Dummy node created for missing inlet for WWSMP 2020	Dummy node created for missing outlet for WWSMP 2020	City GIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed slope
	1198 City GIS received on May 29, 2020	Dummy node created for missing inlet for WWSMP 2020	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed slope
	1223 City GIS received on May 29, 2020	City GIS received on May 29, 2020	Corrected and filled missing outlet ID for WWSMP 2020	City GIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed slope
	1224 City GIS received on May 29, 2020	Corrected and filled missing inlet ID for WWSMP 2020	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed slope
	1245 City GIS received on May 29, 2020	City GIS received on May 29, 2020	Dummy node created for missing outlet for WWSMP 2020	City GIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed slope
	1250 City GIS received on May 29, 2020	City GIS received on May 29, 2020	Dummy node created for missing outlet for WWSMP 2020	City GIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed slope
	1253 City GIS received on May 29, 2020	City GIS received on May 29, 2020	Dummy node created for missing outlet for WWSMP 2020	City GIS received on May 29, 2020		City GIS received on May 29, 2020	Engineering judgment for WWSMP 2020	
	1288 City CIS received on May 29, 2020	City GIS received on May 29, 2020	Dummy node created for missing outlet for WWSMP 2020	City CIS received on May 29, 2020		City GIS received on May 29, 2020	City CIS received on May 29, 2020	
	1200 City CIS received on May 29, 2020	City CIS received on May 29, 2020	City CIS received on May 20, 2020	City CIS received on May 29, 2020	Computed length	Engineering judgment for M/M/SMR 2020	City CIS received on May 29, 2020	
	1290 City GIS received on May 29, 2020	City GIS received on May 29, 2020	City GIS received on May 29, 2020	City GIS received on May 29, 2020				
	1305 City GIS received on May 29, 2020	City GIS received on May 29, 2020	Dummy node created for missing outlet for WWSMP 2020	City GIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed slope
	1308 City GIS received on May 29, 2020	City GIS received on May 29, 2020	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed length	2013 DC Study Model	City GIS received on May 29, 2020	Computed slope
	1319 City GIS received on May 29, 2020	Dummy node created for missing inlet for WWSMP 2020	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed length	2013 DC Study Model	City GIS received on May 29, 2020	Computed slope
	1322 City GIS received on May 29, 2020	Corrected and filled missing inlet ID for WWSMP 2020	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed slope
	1323 City GIS received on May 29, 2020	Dummy node created for missing inlet for WWSMP 2020	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed length	2013 DC Study Model	City GIS received on May 29, 2020	Computed slope
	1324 City GIS received on May 29, 2020	City GIS received on May 29, 2020	Dummy node created for missing outlet for WWSMP 2020	City GIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed slope
	1326 City GIS received on May 29, 2020	Dummy node created for missing inlet for WWSMP 2020	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed slope
	1328 City GIS received on May 29, 2020	Dummy node created for missing inlet for WWSMP 2020	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed slope
	1331 City GIS received on May 29, 2020	Dummy node created for missing inlet for WWSMP 2020	Dummy node created for missing outlet for WWSMP 2020	City GIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed slope
	1336 City GIS received on May 29, 2020	City GIS received on May 29, 2020	Dummy node created for missing outlet for WWSMP 2020	City GIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed slope
	1343 City GIS received on May 29, 2020	City GIS received on May 29, 2020	Dummy node created for missing outlet for WWSMP 2020	City GIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed slope
	1370 City GIS received on May 29, 2020	City GIS received on May 29, 2020	City GIS received on May 29, 2020	City GIS received on May 29, 2020		Engineering judgment for WWSMP 2020	City GIS received on May 29, 2020	
	1376 City GIS received on May 29, 2020	Dummy node created for missing inlet for WW/SMP 2020	City GIS received on May 29, 2020	City GIS received on May 29, 2020		City GIS received on May 29, 2020	City GIS received on May 29, 2020	
	1409 City CIS received on May 29, 2020	City GIS received on May 29, 2020	Dummy node created for missing outlet for WWSMP 2020	City CIS received on May 29, 2020		City CIS received on May 29, 2020	City CIS received on May 29, 2020	
	1402 City CIS received on May 29, 2020	Dummy and areated for missing inlet for WM/CMD 0000	City CIS received on May 20, 2020	City CIS received on May 20, 2020		City CIS received on May 20, 2020	City GIS received on May 20, 2020	Computed slope
		City CIS received at May 20, 0000	Dummu node created for missing sould for WithOutD coop			City CID received on May 29, 2020	Concer Magazer ODO Describer	
	1452 Oily GIS received on May 29, 2020	Dury GIS received on May 29, 2020	Durining node created for missing outlet for WWSMP 2020			City GIS received on May 29, 2020	City Olo meshad as Marco 2005	Computed slope
	1473 City GIS received on May 29, 2020	Dummy node created for missing inlet for WWSMP 2020	Uity dis received on May 29, 2020	Lotty GIS received on May 29, 2020	Computed length	Uty GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed slope
	1480 City GIS received on May 29, 2020	City GIS received on May 29, 2020	Dummy node created for missing outlet for WWSMP 2020	City GIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed slope
	1482 City GIS received on May 29, 2020	Dummy node created for missing inlet for WWSMP 2020	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed slope
	1489 City GIS received on May 29, 2020	City GIS received on May 29, 2020	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed length	Engineering judgment for WWSMP 2020	Engineering judgment for WWSMP 2020	Computed slope
	1493 City GIS received on May 29, 2020	Dummy node created for missing inlet for WWSMP 2020	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed slope
	1501 City GIS received on May 29, 2020	Dummy node created for missing inlet for WWSMP 2020	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed slope
	1512 City GIS received on May 29, 2020	City GIS received on May 29, 2020	Dummy node created for missing outlet for WWSMP 2020	City GIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed slope
	1524 City GIS received on May 29, 2020	City GIS received on May 29, 2020	Dummy node created for missing outlet for WWSMP 2020	City GIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed slope
	1555 City GIS received on May 29, 2020	City GIS received on May 29, 2020	City GIS received on May 29, 2020	City GIS received on May 29. 2020	Computed length	2013 DC Study Model	2013 DC Study Model	Computed slope
	1559 City GIS received on May 29, 2020	City GIS received on May 29, 2020	City GIS received on May 29. 2020	City GIS received on May 29, 2020	Computed length	2013 DC Study Model	City GIS received on May 29, 2020	Computed slope
	1566 City GIS received on May 29, 2020	City GIS received on May 29, 2020	Dummy node created for missing outlet for WWSMP 2020	City GIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed slope
	1568 City GIS received on May 20, 2020	Dummy node created for missing inlet for WW/SMP 2020	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed slope
	1000 Dicy and received on Ividy 23, 2020	Durning hous orales for missing milet for WWOWF 2020	1013 010 1000 100 011 11103 20, 2020	Sity and received on Way 23, 2020		Unity and received on Ividy 23, 2020	Unity and received on Ividy 23, 2020	

				DIAMETER SOURCE	LENGTH SOURCE	LIPINVERT SOURCE	DOWNINVERT SOURCE	
	1586 City GIS received on May 29, 2020	City GIS received on May 29, 2020	Dummy node created for missing outlet for WWSMP 2020	City GIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed slope
	1597 City GIS received on May 29, 2020	City GIS received on May 29, 2020	Dummy node created for missing outlet for WWSMP 2020	City GIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed slope
	1603 City GIS received on May 29, 2020	City GIS received on May 29, 2020	Dummy node created for missing outlet for WWSMP 2020	City GIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed slope
	1621 City GIS received on May 29, 2020	City GIS received on May 29, 2020	Corrected and filled missing outlet ID for WWSMP 2020	City GIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed slope
	1650 City GIS received on May 29, 2020	City GIS received on May 29, 2020	Dummy node created for missing outlet for WWSMP 2020	City GIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed slope
	1676 City GIS received on May 29, 2020	Dummy node created for missing inlet for WWSMP 2020	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed slope
	1678 City GIS received on May 29, 2020	City GIS received on May 29, 2020	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed length	2013 DC Study Model	2013 DC Study Model	Computed slope
	1751 City GIS received on May 29, 2020	City GIS received on May 29, 2020	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed length	2013 DC Study Model	City GIS received on May 29, 2020	Computed slope
	1776 City GIS received on May 29, 2020	Dummy node created for missing inlet for WWSMP 2020	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed slope
	1794 City GIS received on May 29, 2020	City GIS received on May 29, 2020	City GIS received on May 29, 2020	City GIS received on May 29, 2020		City GIS received on May 29, 2020	2013 DC Study Model	Computed slope
	1825 City GIS received on May 29, 2020	Dummy node created for missing inlet for WWSMP 2020	City CIS received on May 29, 2020	City CIS received on May 29, 2020		City CIS received on May 29, 2020	City GIS received on May 29, 2020	Computed slope
	1820 City CIS received on May 29, 2020	City CIS received on May 20, 2020	Dummy node created for missing outlet for WWSMP 2020	City CIS received on May 29, 2020	Computed length	City CIS received on May 29, 2020	City CIS received on May 29, 2020	
	1842 City GIS received on May 29, 2020	City CIS received on May 29, 2020	Corrected and filled missing outlet ID for WWSMP 2020	City CIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	City GIS received on May 29, 2020	
	1840 City CIS received on May 29, 2020	City CIS received on May 29, 2020	Dummu pada aroated for missing outlet for WWSMF 2020	City CIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	Engineering judgment for W/WSMP 2020	
	1849 City GIS received on May 29, 2020	City CIS received on May 29, 2020	Dummy node created for missing outlet for WWSMP 2020	City CIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	Engineering judgment for WWSMP 2020	
	1856 City GIS received on May 29, 2020	City GIS received on May 29, 2020	Dummy node created for missing outlet for WWSMP 2020	City GIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed slope
	1857 City GIS received on May 29, 2020	City CIS received on May 29, 2020	City CIS received on May 20, 2020	City CIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	City GIS received off May 29, 2020	Computed slope
	1859 City GIS received on May 29, 2020	City GIS received on May 29, 2020	City CIS received on May 29, 2020	City GIS received on May 29, 2020		City Close sized as May 20, 2020	Engineering judgment for WWSMP 2020	
	1866 City GIS received on May 29, 2020	Dummy node created for missing inlet for WWSMP 2020	City GIS received on May 29, 2020	City GIS received on May 29, 2020		City GIS received on May 29, 2020	City GIS received on May 29, 2020	
	1867 City GIS received on May 29, 2020	Dummy node created for missing inlet for WWSMP 2020	City GIS received on May 29, 2020	City GIS received on May 29, 2020		City GIS received on May 29, 2020	City GIS received on May 29, 2020	
	1882 City GIS received on May 29, 2020	Dummy node created for missing inlet for WWSMP 2020	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed slope
	1891 City GIS received on May 29, 2020	City GIS received on May 29, 2020	Dummy node created for missing outlet for WWSMP 2020	City GIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed slope
	1898 City GIS received on May 29, 2020	Dummy node created for missing inlet for WWSMP 2020	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed slope
	1903 City GIS received on May 29, 2020	City GIS received on May 29, 2020	Dummy node created for missing outlet for WWSMP 2020	City GIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed slope
	1904 City GIS received on May 29, 2020	City GIS received on May 29, 2020	Dummy node created for missing outlet for WWSMP 2020	City GIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed slope
	1911 City GIS received on May 29, 2020	City GIS received on May 29, 2020	Dummy node created for missing outlet for WWSMP 2020	City GIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed slope
	1924 City GIS received on May 29, 2020	City GIS received on May 29, 2020	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	2013 DC Study Model	Computed slope
	1943 City GIS received on May 29, 2020	City GIS received on May 29, 2020	Dummy node created for missing outlet for WWSMP 2020	City GIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed slope
	1959 City GIS received on May 29, 2020	City GIS received on May 29, 2020	Corrected and filled missing outlet ID for WWSMP 2020	City GIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed slope
	1962 City GIS received on May 29, 2020	City GIS received on May 29, 2020	Dummy node created for missing outlet for WWSMP 2020	City GIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed slope
	1964 City GIS received on May 29, 2020	City GIS received on May 29, 2020	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	Engineering judgment for WWSMP 2020	Computed slope
	1966 City GIS received on May 29, 2020	City GIS received on May 29, 2020	Dummy node created for missing outlet for WWSMP 2020	City GIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed slope
	1991 City GIS received on May 29, 2020	City GIS received on May 29, 2020	Dummy node created for missing outlet for WWSMP 2020	City GIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	Engineering judgment for WWSMP 2020	Computed slope
	1994 City GIS received on May 29, 2020	City GIS received on May 29, 2020	Corrected and filled missing outlet ID for WWSMP 2020	City GIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed slope
	2001 City GIS received on May 29, 2020	City GIS received on May 29, 2020	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed length	2013 DC Study Model	2013 DC Study Model	Computed slope
	2002 City GIS received on May 29, 2020	City GIS received on May 29, 2020	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed length	2013 DC Study Model	City GIS received on May 29, 2020	Computed slope
	2064 City GIS received on May 29, 2020	Corrected and filled missing inlet ID for WWSMP 2020	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed slope
	2065 City GIS received on May 29, 2020	City GIS received on May 29, 2020	Corrected and filled missing outlet ID for WWSMP 2020	City GIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed slope
	2086 City GIS received on May 29, 2020	City GIS received on May 29, 2020	Dummy node created for missing outlet for WWSMP 2020	City GIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed slope
	2090 City GIS received on May 29, 2020	City GIS received on May 29, 2020	Dummy node created for missing outlet for WWSMP 2020	City GIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed slope
	2091 City GIS received on May 29, 2020	Dummy node created for missing inlet for WWSMP 2020	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed slope
	2092 City GIS received on May 29, 2020	City GIS received on May 29, 2020	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed length	Engineering judgment for WWSMP 2020	Engineering judgment for WWSMP 2020	Computed slope
	2097 City GIS received on May 29, 2020	Dummy node created for missing inlet for WWSMP 2020	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed slope
	2102 City GIS received on May 29, 2020	City GIS received on May 29, 2020	Dummy node created for missing outlet for WWSMP 2020	City GIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed slope
	2112 City GIS received on May 29, 2020	Dummy node created for missing inlet for WWSMP 2020	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed slope
	2113 City GIS received on May 29, 2020	City GIS received on May 29, 2020	Dummy node created for missing outlet for WWSMP 2020	City GIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed slope
	2123 City GIS received on May 29, 2020	City GIS received on May 29, 2020	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	2013 DC Study Model	Computed slope
	2158 City GIS received on May 29, 2020	Dummy node created for missing inlet for WWSMP 2020	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed length	2013 DC Study Model	City GIS received on May 29, 2020	Computed slope
	2223 City GIS received on May 29, 2020	City GIS received on May 29, 2020	Dummy node created for missing outlet for WWSMP 2020	City GIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed slope
	2224 City GIS received on May 29, 2020	Dummy node created for missing inlet for WWSMP 2020	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed slope
	2251 City GIS received on May 29, 2020	Dummy node created for missing inlet for WWSMP 2020	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed slope
	2281 City GIS received on May 29, 2020	City GIS received on May 29, 2020	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed length	2013 DC Study Model	2013 DC Study Model	Computed slope
	2341 City GIS received on May 29, 2020	City GIS received on May 29, 2020	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed length	2013 DC Study Model	2013 DC Study Model	Computed slope
	2377 City GIS received on May 29, 2020	Corrected and filled missing inlet ID for WWSMP 2020	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed length	2013 DC Study Model	City GIS received on May 29, 2020	Computed slope
	2378 City GIS received on May 29, 2020	City GIS received on May 29, 2020	Corrected and filled missing outlet ID for WWSMP 2020	City GIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed slope
	2392 City GIS received on May 29, 2020	Corrected and filled missing inlet ID for WWSMP 2020	Corrected and filled missing outlet ID for WWSMP 2020	City GIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed slope
	2424 City GIS received on May 29, 2020	Dummy node created for missing inlet for WWSMP 2020	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed slope
	2497 City GIS received on May 29, 2020	City GIS received on May 29, 2020	Dummy node created for missing outlet for WWSMP 2020	City GIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed slope
	2514 City GIS received on May 29, 2020	Dummy node created for missing inlet for WWSMP 2020	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed length	2013 DC Study Model	City GIS received on May 29, 2020	Computed slope
	2516 City GIS received on May 29, 2020	Dummy node created for missing inlet for WWSMP 2020	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed slope
	2526 City GIS received on May 29, 2020	City GIS received on May 29, 2020	Corrected and filled missing outlet ID for WWSMP 2020	City GIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed slope
	2530 City GIS received on May 29, 2020	Corrected and filled missing inlet ID for WWSMP 2020	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed slope
	2532 City GIS received on May 29, 2020	Dummy node created for missing inlet for WWSMP 2020	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed slope
	2541 City GIS received on May 29, 2020	City GIS received on May 29, 2020	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	2013 DC Study Model	Computed slope
	2542 City GIS received on May 29, 2020	City GIS received on May 29, 2020	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed length	2013 DC Study Model	2013 DC Study Model	Computed slope
	2543 City GIS received on May 29, 2020	City GIS received on May 29, 2020	City GIS received on May 29, 2020	City GIS received on May 29, 2020		Engineering judgment for WWSMP 2020	Engineering judgment for WWSMP 2020	Computed slope
	2621 City GIS received on May 29, 2020	Dummy node created for missing inlet for WWSMP 2020	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	2013 DC Study Model	Computed slope
	2625 City GIS received on May 29, 2020	City GIS received on May 29, 2020	Corrected and filled missing outlet ID for WWSMP 2020	City GIS received on May 20, 2020	Computed length	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed slope
	2626 City GIS received on May 29, 2020	City GIS received on May 29, 2020	Corrected and filled missing outlet ID for WWSMF 2020	City GIS received on May 20, 2020		City GIS received on May 29, 2020	City GIS received on May 20, 2020	
	2628 City GIS received on May 29, 2020	Corrected and filled missing inlet ID for W/W/SMD 2020	City GIS received on May 29, 2020	City GIS received on May 20, 2020	Computed length	City GIS received on May 29, 2020	City GIS received on May 20, 2020	
	2620 City CIC received on May 29, 2020	City CIS received on May 20, 2020	Dummy node created for missing outlet for WMCEMP 2020	City GIS received on May 20, 2020		City CIS received on May 20, 2020	City CIS received on May 20, 2020	
		Corrected and filled missing inlet ID for WIMCMD 0000	City CIS received on May 20, 2020	City CIS received on May 29, 2020		City CIS received on May 29, 2020	City CIS received on May 29, 2020	
	2030 City CIS received on May 29, 2020	Corrected and filled missing inlet ID for MANNEND 2020	City CIS received on May 29, 2020	City CIS received on May 29, 2020		City CIS received on May 29, 2020	City CIS received on May 29, 2020	
	2037 Gity CIS received on Way 29, 2020	City CIS received on May 20, 2020	City CIC received on May 29, 2020	City CIS received on May 29, 2020		Engineering judgment for MUNOND 0000	Engineering indement for MUNOND coop	
	27 10 Uity GIS received on May 29, 2020	City CIS received on May 29, 2020	Dury GIS received on Way 29, 2020	City CIS received on May 29, 2020		City CIP received on May 20, 2020	City CIS received on May 20, 2020	
	2/3/ Ully GIS received on May 29, 2020	Dury GIS received on May 29, 2020	Durinity node created for missing outlet for WWSMP 2020	City CIS received on May 29, 2020		City GIS received on May 29, 2020	City CIS received on May 29, 2020	
	2744 Uity GIS received on May 29, 2020	Dummy node created for missing inlet for WWSMP 2020	City CIS received on May 29, 2020	City CIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	City GIS received on May 29, 2020	
		City CIC received or Max 00, 2020	Dury dio received on May 29, 2020			City GIS received on May 29, 2020		
	2700 City GIS received on May 29, 2020	Loty dia received on May 29, 2020	Duminy node created for missing outlet for WWSMP 2020	Uity dia received on May 29, 2020		Uny dia received on May 29, 2020	Lony GIS received on May 29, 2020	Computed slope

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 2770 City GIS received on May 29, 2020	Dummy node created for missing inlet for WWSMP 2020	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed length	2013 DC Study Model	City GIS received on May 29, 2020	Computed slope
 2773 City GIS received on May 29, 2020	Corrected and filled missing inlet ID for WWSMP 2020	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed slope
2774 City GIS received on May 29, 2020	Dummy node created for missing inlet for WWSMP 2020	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed slope
2790 City GIS received on May 29, 2020	Dummy node created for missing inlet for WWSMP 2020	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed slope
2791 City GIS received on May 29, 2020	City GIS received on May 29, 2020	Dummy node created for missing outlet for WWSMP 2020	City GIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed slope
2795 City GIS received on May 29, 2020	City GIS received on May 29, 2020	Dummy node created for missing outlet for WWSMP 2020	City GIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed slope
2796 City GIS received on May 29, 2020	Dummy node created for missing inlet for WWSMP 2020	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed slope
2804 City GIS received on May 29, 2020	Dummy node created for missing inlet for WWSMP 2020	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed slope
2810 City GIS received on May 29, 2020	City GIS received on May 29, 2020	Dummy node created for missing outlet for WWSMP 2020	City GIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed slope
2814 City GIS received on May 29, 2020	Dummy node created for missing inlet for WWSMP 2020	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed slope
2815 City GIS received on May 29, 2020	City GIS received on May 29, 2020	Dummy node created for missing outlet for WWSMP 2020	City GIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed slope
2825 City CIS received on May 29, 2020	Dummy node created for missing inlet for W/WSMP 2020	City CIS received on May 20, 2020	City CIS received on May 20, 2020	Computed length	2012 DC Study Model	City CIS received on May 29, 2020	
 2825 City CIS received on May 29, 2020	City CIC received on May 20, 2020	Dummu node exected for missing outlet for WIMCMD 2020	City CIS received on May 29, 2020			City CIS received on May 29, 2020	
 2826 City GIS received on May 29, 2020	City GIS received on May 29, 2020	Dummy hode created for missing butlet for WWSMP 2020			City GIS received on May 29, 2020	City GIS received on May 29, 2020	
 2827 City GIS received on May 29, 2020	Dummy node created for missing inlet for WWSMP 2020	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed length	2013 DC Study Model	City GIS received on May 29, 2020	Computed slope
 2843 City GIS received on May 29, 2020	City GIS received on May 29, 2020	Dummy node created for missing outlet for WWSMP 2020	City GIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed slope
2844 City GIS received on May 29, 2020	Dummy node created for missing inlet for WWSMP 2020	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed slope
2937 City GIS received on May 29, 2020	City GIS received on May 29, 2020	Dummy node created for missing outlet for WWSMP 2020	City GIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed slope
2938 City GIS received on May 29, 2020	Dummy node created for missing inlet for WWSMP 2020	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed slope
2940 City GIS received on May 29, 2020	City GIS received on May 29, 2020	Dummy node created for missing outlet for WWSMP 2020	City GIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed slope
2943 City GIS received on May 29, 2020	City GIS received on May 29, 2020	Corrected and filled missing outlet ID for WWSMP 2020	City GIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed slope
2944 City GIS received on May 29, 2020	City GIS received on May 29, 2020	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed length	CN# 2-1614 Drawings	Engineering judgment for WWSMP 2020	Computed slope
2952 City GIS received on May 29, 2020	Corrected and filled missing inlet ID for WWSMP 2020	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed slope
2967 City GIS received on May 29, 2020	City GIS received on May 29, 2020	Dummy node created for missing outlet for WWSMP 2020	City GIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed slope
2976 City GIS received on May 29, 2020	City GIS received on May 29, 2020	Dummy node created for missing outlet for WWSMP 2020	City GIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	City GIS received on May 29, 2020	
2002 City CIS received on May 20, 2020	Dummy node created for missing inlet for W/WSMP 2020	City CIS received on May 20, 2020	City CIS received on May 20, 2020	Computed length	City CIS received on May 29, 2020	City CIS received on May 29, 2020	Computed slope
 2962 City CIS received on May 29, 2020	Dummy hode created for missing inlet for WWSMF 2020	City GIS received on May 29, 2020			City CIC received on May 29, 2020	City CIS received on May 29, 2020	
	Dummy node created for missing inlet for WWSMP 2020	City CIC received or May 20, 2022				City CIS received on May 29, 2020	Computed slope
 3000 City GIS received on May 29, 2020	Dummy node created for missing inlet for WWSMP 2020	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed slope
 3006 City GIS received on May 29, 2020	City GIS received on May 29, 2020	Corrected and filled missing outlet ID for WWSMP 2020	City GIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed slope
3020 City GIS received on May 29, 2020	City GIS received on May 29, 2020	Dummy node created for missing outlet for WWSMP 2020	City GIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed slope
3027 City GIS received on May 29, 2020	City GIS received on May 29, 2020	Dummy node created for missing outlet for WWSMP 2020	City GIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed slope
3028 City GIS received on May 29, 2020	Dummy node created for missing inlet for WWSMP 2020	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed length	2013 DC Study Model	2013 DC Study Model	Computed slope
3047 City GIS received on May 29, 2020	City GIS received on May 29, 2020	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed length	Engineering judgment for WWSMP 2020	Engineering judgment for WWSMP 2020	Computed slope
3060 City GIS received on May 29, 2020	Dummy node created for missing inlet for WWSMP 2020	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed length	2013 DC Study Model	City GIS received on May 29, 2020	Computed slope
3079 City GIS received on May 29, 2020	Dummy node created for missing inlet for WWSMP 2020	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed length	2013 DC Study Model	City GIS received on May 29, 2020	Computed slope
3083 City GIS received on May 29, 2020	City GIS received on May 29, 2020	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed length	2013 DC Study Model	City GIS received on May 29, 2020	Computed slope
3085 City GIS received on May 29, 2020	City GIS received on May 29, 2020	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	Engineering judgment for WWSMP 2020	Computed slope
 3086 City CIS received on May 29, 2020	City CIS received on May 29, 2020	City CIS received on May 29, 2020	City CIS received on May 29, 2020	Computed length	Engineering judgment for WWSMP 2020	City CIS received on May 29, 2020	
 2000 City CIS received on May 29, 2020	City CIS received on May 29, 2020	City CIS received on May 29, 2020	City CIS received on May 29, 2020	Computed length	City CIS received on May 20, 2020	City GIS received on May 29, 2020	
3090 City GIS received on May 29, 2020	Dummy node created for missing inlet for WWSMP 2020	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed length	2013 DC Study Model	City GIS received on May 29, 2020	Computed slope
3090 City GIS received on May 29, 20203092 City GIS received on May 29, 2020	Dummy node created for missing inlet for WWSMP 2020 City GIS received on May 29, 2020	City GIS received on May 29, 2020 Dummy node created for missing outlet for WWSMP 2020	City GIS received on May 29, 2020 City GIS received on May 29, 2020 City GIS received on May 29, 2020	Computed length Computed length	2013 DC Study Model City GIS received on May 29, 2020	City GIS received on May 29, 2020 City GIS received on May 29, 2020	Computed slope Computed slope Computed slope
3090 City GIS received on May 29, 20203092 City GIS received on May 29, 20203093 City GIS received on May 29, 2020	Dummy node created for missing inlet for WWSMP 2020 City GIS received on May 29, 2020 Dummy node created for missing inlet for WWSMP 2020	City GIS received on May 29, 2020 Dummy node created for missing outlet for WWSMP 2020 City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed length Computed length Computed length	2013 DC Study Model City GIS received on May 29, 2020 City GIS received on May 29, 2020	City GIS received on May 29, 2020 City GIS received on May 29, 2020 City GIS received on May 29, 2020	Computed slope Computed slope Computed slope
3090City GIS received on May 29, 20203092City GIS received on May 29, 20203093City GIS received on May 29, 20203122City GIS received on May 29, 2020	Dummy node created for missing inlet for WWSMP 2020 City GIS received on May 29, 2020 Dummy node created for missing inlet for WWSMP 2020 City GIS received on May 29, 2020 City GIS received on May 29, 2020	City GIS received on May 29, 2020 Dummy node created for missing outlet for WWSMP 2020 City GIS received on May 29, 2020 City GIS received on May 29, 2020	City GIS received on May 29, 2020City GIS received on May 29, 2020	Computed length Computed length Computed length Computed length	2013 DC Study Model City GIS received on May 29, 2020 City GIS received on May 29, 2020 City GIS received on May 29, 2020 City GIS received on May 29, 2020	City GIS received on May 29, 2020 City GIS received on May 29, 2020 City GIS received on May 29, 2020 City GIS received on May 29, 2020 2013 DC Study Model	Computed slope Computed slope Computed slope Computed slope Computed slope
3090City GIS received on May 29, 20203092City GIS received on May 29, 20203093City GIS received on May 29, 20203122City GIS received on May 29, 20203152City GIS received on May 29, 2020	Dummy node created for missing inlet for WWSMP 2020 City GIS received on May 29, 2020 Dummy node created for missing inlet for WWSMP 2020 City GIS received on May 29, 2020 City GIS received on May 29, 2020 Dummy node created for missing inlet for WWSMP 2020 Dummy node created for missing inlet for WWSMP 2020 Dummy node created for missing inlet for WWSMP 2020	City GIS received on May 29, 2020 Dummy node created for missing outlet for WWSMP 2020 City GIS received on May 29, 2020 City GIS received on May 29, 2020 City GIS received on May 29, 2020	City GIS received on May 29, 2020City GIS received on May 29, 2020	Computed length Computed length Computed length Computed length Computed length	2013 DC Study Model City GIS received on May 29, 2020 City GIS received on May 29, 2020 City GIS received on May 29, 2020 City GIS received on May 29, 2020 2013 DC Study Model	City GIS received on May 29, 2020 City GIS received on May 29, 2020 City GIS received on May 29, 2020 2013 DC Study Model City GIS received on May 29, 2020	Computed slope
 3090 City GIS received on May 29, 2020 3092 City GIS received on May 29, 2020 3093 City GIS received on May 29, 2020 3122 City GIS received on May 29, 2020 3152 City GIS received on May 29, 2020 3153 City GIS received on May 29, 2020 	Dummy node created for missing inlet for WWSMP 2020 City GIS received on May 29, 2020 Dummy node created for missing inlet for WWSMP 2020 City GIS received on May 29, 2020 Dummy node created for missing inlet for WWSMP 2020 City GIS received on May 29, 2020 Dummy node created for missing inlet for WWSMP 2020 City GIS received on May 29, 2020 Dummy node created for missing inlet for WWSMP 2020 City GIS received on May 29, 2020	City GIS received on May 29, 2020 Dummy node created for missing outlet for WWSMP 2020 City GIS received on May 29, 2020 City GIS received on May 29, 2020 City GIS received on May 29, 2020 Dummy node created for missing outlet for WWSMP 2020	City GIS received on May 29, 2020City GIS received on May 29, 2020	Computed length Computed length Computed length Computed length Computed length Computed length Computed length	2013 DC Study Model City GIS received on May 29, 2020 City GIS received on May 29, 2020 City GIS received on May 29, 2020 2013 DC Study Model City GIS received on May 29, 2020	City GIS received on May 29, 2020 City GIS received on May 29, 2020 City GIS received on May 29, 2020 2013 DC Study Model City GIS received on May 29, 2020 2013 DC Study Model	Computed slope
3090City GIS received on May 29, 20203092City GIS received on May 29, 20203093City GIS received on May 29, 20203122City GIS received on May 29, 20203152City GIS received on May 29, 20203153City GIS received on May 29, 20203179City GIS received on May 29, 2020	Dummy node created for missing inlet for WWSMP 2020 City GIS received on May 29, 2020 Dummy node created for missing inlet for WWSMP 2020 City GIS received on May 29, 2020 Dummy node created for missing inlet for WWSMP 2020 City GIS received on May 29, 2020 Dummy node created for missing inlet for WWSMP 2020 City GIS received on May 29, 2020 Dummy node created for missing inlet for WWSMP 2020 City GIS received on May 29, 2020 Dummy node created for missing inlet for WWSMP 2020	City GIS received on May 29, 2020 Dummy node created for missing outlet for WWSMP 2020 City GIS received on May 29, 2020 City GIS received on May 29, 2020 City GIS received on May 29, 2020 Dummy node created for missing outlet for WWSMP 2020 City GIS received on May 29, 2020	City GIS received on May 29, 2020City GIS received on May 29, 2020	Computed length Computed length Computed length Computed length Computed length Computed length Computed length Computed length	2013 DC Study Model City GIS received on May 29, 2020 City GIS received on May 29, 2020 City GIS received on May 29, 2020 2013 DC Study Model City GIS received on May 29, 2020 2013 DC Study Model	City GIS received on May 29, 2020 City GIS received on May 29, 2020 City GIS received on May 29, 2020 2013 DC Study Model City GIS received on May 29, 2020 2013 DC Study Model 2013 DC Study Model 2013 DC Study Model	Computed slope
3090City GIS received on May 29, 20203092City GIS received on May 29, 20203093City GIS received on May 29, 20203122City GIS received on May 29, 20203152City GIS received on May 29, 20203153City GIS received on May 29, 20203179City GIS received on May 29, 20203200City GIS received on May 29, 2020	Dummy node created for missing inlet for WWSMP 2020 City GIS received on May 29, 2020 Dummy node created for missing inlet for WWSMP 2020 City GIS received on May 29, 2020 Dummy node created for missing inlet for WWSMP 2020 City GIS received on May 29, 2020 Dummy node created for missing inlet for WWSMP 2020 City GIS received on May 29, 2020 Dummy node created for missing inlet for WWSMP 2020 Dummy node created for missing inlet for WWSMP 2020 Dummy node created for missing inlet for WWSMP 2020 Dummy node created for missing inlet for WWSMP 2020	City GIS received on May 29, 2020 Dummy node created for missing outlet for WWSMP 2020 City GIS received on May 29, 2020 City GIS received on May 29, 2020 City GIS received on May 29, 2020 Dummy node created for missing outlet for WWSMP 2020 City GIS received on May 29, 2020 City GIS received on May 29, 2020 City GIS received on May 29, 2020	City GIS received on May 29, 2020City GIS received on May 29, 2020	Computed length Computed length Computed length Computed length Computed length Computed length Computed length Computed length Computed length	2013 DC Study Model City GIS received on May 29, 2020 City GIS received on May 29, 2020 City GIS received on May 29, 2020 2013 DC Study Model City GIS received on May 29, 2020 2013 DC Study Model City GIS received on May 29, 2020 City GIS received on May 29, 2020	City GIS received on May 29, 2020 City GIS received on May 29, 2020 City GIS received on May 29, 2020 2013 DC Study Model City GIS received on May 29, 2020 2013 DC Study Model 2013 DC Study Model City GIS received on May 29, 2020	Computed slope
3090City GIS received on May 29, 20203092City GIS received on May 29, 20203093City GIS received on May 29, 20203122City GIS received on May 29, 20203152City GIS received on May 29, 20203153City GIS received on May 29, 20203179City GIS received on May 29, 20203200City GIS received on May 29, 20203220City GIS received on May 29, 20203220City GIS received on May 29, 2020	Dummy node created for missing inlet for WWSMP 2020 City GIS received on May 29, 2020 Dummy node created for missing inlet for WWSMP 2020 City GIS received on May 29, 2020 Dummy node created for missing inlet for WWSMP 2020 City GIS received on May 29, 2020 Dummy node created for missing inlet for WWSMP 2020 City GIS received on May 29, 2020 Dummy node created for missing inlet for WWSMP 2020 Dummy node created for missing inlet for WWSMP 2020 Dummy node created for missing inlet for WWSMP 2020 City GIS received on May 29, 2020 Dummy node created for missing inlet for WWSMP 2020 City GIS received on May 29, 2020	City GIS received on May 29, 2020 Dummy node created for missing outlet for WWSMP 2020 City GIS received on May 29, 2020 City GIS received on May 29, 2020 City GIS received on May 29, 2020 Dummy node created for missing outlet for WWSMP 2020 City GIS received on May 29, 2020	City GIS received on May 29, 2020City GIS received on May 29, 2020	Computed length Computed length	2013 DC Study Model City GIS received on May 29, 2020 City GIS received on May 29, 2020 City GIS received on May 29, 2020 2013 DC Study Model City GIS received on May 29, 2020 2013 DC Study Model City GIS received on May 29, 2020 City GIS received on May 29, 2020 City GIS received on May 29, 2020	City GIS received on May 29, 2020 City GIS received on May 29, 2020 City GIS received on May 29, 2020 2013 DC Study Model City GIS received on May 29, 2020 2013 DC Study Model 2013 DC Study Model City GIS received on May 29, 2020 Engineering judgment for WWSMP 2020	Computed slope
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ModelCity GIS received on May 29, 20202013 DC Study ModelCity GIS received on May 29, 20202013 DC Study ModelCity GIS received on May 29, 20202013 DC Study ModelCity GIS received on May 29, 2020City GIS received on May 29, 2020 <tr< td=""><td>City GIS received on May 29, 2020City GIS received on May 29, 20202013 DC Study ModelCity GIS received on May 29, 20202013 DC Study Model2013 DC Study Model2013 DC Study ModelCity GIS received on May 29, 2020Engineering judgment for WWSMP 2020City GIS received on May 29, 2020<</td><td>Computed slopeComputed slope</td></tr<>	City GIS received on May 29, 2020City GIS received on May 29, 20202013 DC Study ModelCity GIS received on May 29, 20202013 DC Study Model2013 DC Study Model2013 DC Study ModelCity GIS received on May 29, 2020Engineering judgment for WWSMP 2020City GIS received on May 29, 2020<	Computed slopeComputed slope

						DOWNINVERT SOURCE	
	INLET_ID_SOURCE	City CIC reserved on May 00, 0000		Computed longth	OPINVERI_SOURCE	DOWNINVERI_SOURCE	
3575 City GIS received on May 29, 2020			City GIS received on May 29, 2020				
3597 City GIS received on May 29, 2020	City GIS received on May 29, 2020	City GIS received on May 29, 2020	City GIS received on May 29, 2020		City GIS received on May 29, 2020	Engineering judgment for WWSMP 2020	
3611 City GIS received on May 29, 2020	City GIS received on May 29, 2020	Dummy node created for missing outlet for WWSMP 2020	City GIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed slope
3620 City GIS received on May 29, 2020	Dummy node created for missing inlet for WWSMP 2020	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed length	2013 DC Study Model	City GIS received on May 29, 2020	Computed slope
 3632 City GIS received on May 29, 2020	City GIS received on May 29, 2020	Dummy node created for missing outlet for WWSMP 2020	City GIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	2013 DC Study Model	Computed slope
 3635 City GIS received on May 29, 2020	City GIS received on May 29, 2020	Dummy node created for missing outlet for WWSMP 2020	City GIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	2013 DC Study Model	Computed slope
3636 City GIS received on May 29, 2020	City GIS received on May 29, 2020	Dummy node created for missing outlet for WWSMP 2020	City GIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	Engineering judgment for WWSMP 2020	Computed slope
3637 City GIS received on May 29, 2020	City GIS received on May 29, 2020	Dummy node created for missing outlet for WWSMP 2020	City GIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	2013 DC Study Model	Computed slope
3638 City GIS received on May 29, 2020	City GIS received on May 29, 2020	Dummy node created for missing outlet for WWSMP 2020	City GIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	2013 DC Study Model	Computed slope
3646 City GIS received on May 29, 2020	Dummy node created for missing inlet for WWSMP 2020	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed slope
3647 City GIS received on May 29, 2020	Dummy node created for missing inlet for WWSMP 2020	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed slope
3677 City GIS received on May 29, 2020	City GIS received on May 29, 2020	Dummy node created for missing outlet for WWSMP 2020	City GIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed slope
3682 City GIS received on May 29, 2020	City GIS received on May 29, 2020	Dummy node created for missing outlet for WWSMP 2020	City GIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed slope
3683 City GIS received on May 29, 2020	City GIS received on May 29, 2020	Dummy node created for missing outlet for WWSMP 2020	City GIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed slope
3715 City GIS received on May 29, 2020	City GIS received on May 29, 2020	Corrected and filled missing outlet ID for WWSMP 2020	City GIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed slope
3717 City GIS received on May 29, 2020	City GIS received on May 29, 2020	Dummy node created for missing outlet for WWSMP 2020	City GIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed slope
3731 City GIS received on May 29, 2020	City GIS received on May 29, 2020	Corrected and filled missing outlet ID for WWSMP 2020	City GIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed slope
3735 City GIS received on May 29, 2020	City GIS received on May 29, 2020	Corrected and filled missing outlet ID for WWSMP 2020	City GIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed slope
3743 City GIS received on May 29, 2020	City GIS received on May 29, 2020	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	2013 DC Study Model	Computed slope
3752 City GIS received on May 29, 2020	City GIS received on May 29, 2020	Dummy node created for missing outlet for WWSMP 2020	City GIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed slope
3759 City GIS received on May 29, 2020	City GIS received on May 29, 2020	Dummy node created for missing outlet for WWSMP 2020	City GIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	Engineering judgment for WWSMP 2020	Computed slope
2765 City CIS received on May 29, 2020	City CIS received on May 29, 2020	City CIS received on May 20, 2020	City CIS received on May 29, 2020	Computed length	2012 DC Study Model	City CIS received on May 20, 2020	Computed slope
2776 City CIS received on May 29, 2020	Dummy pada graated for missing inlet for M/WSMP 2020	City CIS received on May 29, 2020	City CIS received on May 29, 2020	Computed length	Engineering judgment for WWSMP 2020	City CIS received on May 29, 2020	
2770 City CIS received on May 29, 2020	Dummy node created for missing inlet for WWSMP 2020	City GIS received on May 29, 2020	City CIS received on May 29, 2020	Computed length	Engineering judgment for WWSMP 2020	City GIS received off May 29, 2020	
37/9 City GIS received on May 29, 2020	Durning hode created for missing their for www.sixiP 2020	Durling hode created for missing butter for WWSMP 2020	City GIS received on May 29, 2020		Engineering judgment for WWSMP 2020	Engineering judgment for WWSMP 2020	
3/94 City GIS received on May 29, 2020	City GIS received on May 29, 2020	City GIS received on May 29, 2020	City GIS received on May 29, 2020		Engineering judgment for WWSMP 2020	Engineering judgment for WWSMP 2020	Computed slope
 3802 City GIS received on May 29, 2020	City GIS received on May 29, 2020	Corrected and filled missing outlet ID for WWSMP 2020	City GIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed slope
 3815 City GIS received on May 29, 2020	City GIS received on May 29, 2020	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed length	2013 DC Study Model	2013 DC Study Model	Computed slope
3821 City GIS received on May 29, 2020	City GIS received on May 29, 2020	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	Engineering judgment for WWSMP 2020	Computed slope
 3833 City GIS received on May 29, 2020	City GIS received on May 29, 2020	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed length	2013 DC Study Model	City GIS received on May 29, 2020	Computed slope
 3838 City GIS received on May 29, 2020	City GIS received on May 29, 2020	Corrected and filled missing outlet ID for WWSMP 2020	City GIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed slope
3839 City GIS received on May 29, 2020	City GIS received on May 29, 2020	Corrected and filled missing outlet ID for WWSMP 2020	City GIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed slope
3840 City GIS received on May 29, 2020	City GIS received on May 29, 2020	Corrected and filled missing outlet ID for WWSMP 2020	City GIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed slope
3843 City GIS received on May 29, 2020	Dummy node created for missing inlet for WWSMP 2020	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed slope
3844 City GIS received on May 29, 2020	City GIS received on May 29, 2020	Dummy node created for missing outlet for WWSMP 2020	City GIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed slope
3845 City GIS received on May 29, 2020	Corrected and filled missing inlet ID for WWSMP 2020	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed slope
3847 City GIS received on May 29, 2020	City GIS received on May 29, 2020	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	Engineering judgment for WWSMP 2020	Computed slope
3851 City GIS received on May 29, 2020	Corrected and filled missing inlet ID for WWSMP 2020	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed slope
3853 City GIS received on May 29, 2020	City GIS received on May 29, 2020	Corrected and filled missing outlet ID for WWSMP 2020	City GIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed slope
3856 City GIS received on May 29, 2020	City GIS received on May 29, 2020	Corrected and filled missing outlet ID for WWSMP 2020	City GIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed slope
3862 City GIS received on May 29, 2020	City GIS received on May 29, 2020	Corrected and filled missing outlet ID for WWSMP 2020	City GIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed slope
3866 City GIS received on May 29, 2020	City GIS received on May 29, 2020	Corrected and filled missing outlet ID for WWSMP 2020	City GIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed slope
3877 City GIS received on May 29, 2020	City GIS received on May 29, 2020	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed length	Engineering judgment for WWSMP 2020	Engineering judgment for WWSMP 2020	Computed slope
3880 City GIS received on May 29, 2020	City GIS received on May 29, 2020	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed length	2013 DC Study Model	City GIS received on May 29, 2020	Computed slope
3890 City GIS received on May 29, 2020	City GIS received on May 29, 2020	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed length	Engineering judgment for WWSMP 2020	Engineering judgment for WWSMP 2020	Computed slope
3908 City GIS received on May 29, 2020	City GIS received on May 29, 2020	Corrected and filled missing outlet ID for WWSMP 2020	City GIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed slope
3923 City GIS received on May 29, 2020	Corrected and filled missing inlet ID for WWSMP 2020	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	City GIS received on May 29, 2020	
3965 City GIS received on May 29, 2020	City CIS received on May 29, 2020	City CIS received on May 29, 2020	City CIS received on May 29, 2020	Computed length	Engineering judgment for W/WSMP 2020	City CIS received on May 29, 2020	Computed slope
2007 City CIS received on May 29, 2020	City CIS received on May 29, 2020	City CIS received on May 29, 2020	City GIS received on May 29, 2020	Computed length	Engineering judgment for W/WSMP 2020	City GIS received on May 29, 2020	
4000 City CIS received on May 29, 2020	City GIS received on May 29, 2020	City CIS received on May 29, 2020	City CIS received on May 29, 2020	Computed length	City CIS received on May 20, 2020	City CIS received on May 29, 2020	
4009 City CIS received on May 29, 2020	City CIS received on May 20, 2020	City CIS received on May 29, 2020	City CIS received on May 29, 2020	Computed length	City CIS received on May 29, 2020	2012 DC Study Medel	
4010 City GIS received on May 29, 2020	City CIS received on May 29, 2020	City CIS received on May 29, 2020	City CIS received on May 29, 2020		City CIS received on May 29, 2020		
4044 City GIS received on May 29, 2020	City GIS received on May 29, 2020	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020		
4049 City GIS received on May 29, 2020	City GIS received on May 29, 2020	Corrected and filled missing outlet ID for WWSMP 2020	City GIS received on May 29, 2020		City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed slope
 4069 City GIS received on May 29, 2020	City GIS received on May 29, 2020	Dummy node created for missing outlet for WWSMP 2020	City GIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed slope
 40/1 City GIS received on May 29, 2020	Dummy node created for missing inlet for WWSMP 2020	Corrected and filled missing outlet ID for WWSMP 2020	City GIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed slope
4088 City GIS received on May 29, 2020	Dummy node created for missing inlet for WWSMP 2020	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed length	2013 DC Study Model	City GIS received on May 29, 2020	Computed slope
4104 City GIS received on May 29, 2020	City GIS received on May 29, 2020	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed length	2013 DC Study Model	2013 DC Study Model	Computed slope
4110 City GIS received on May 29, 2020	Dummy node created for missing inlet for WWSMP 2020	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed slope
 4120 City GIS received on May 29, 2020	City GIS received on May 29, 2020	Corrected and filled missing outlet ID for WWSMP 2020	City GIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed slope
 4121 City GIS received on May 29, 2020	Dummy node created for missing inlet for WWSMP 2020	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed length	Engineering judgment for WWSMP 2020	Engineering judgment for WWSMP 2020	Computed slope
4133 City GIS received on May 29, 2020	City GIS received on May 29, 2020	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed length	Engineering judgment for WWSMP 2020	City GIS received on May 29, 2020	Computed slope
4135 City GIS received on May 29, 2020	Corrected and filled missing inlet ID for WWSMP 2020	Corrected and filled missing outlet ID for WWSMP 2020	City GIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed slope
4141 City GIS received on May 29, 2020	City GIS received on May 29, 2020	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed length	2013 DC Study Model	City GIS received on May 29, 2020	Computed slope
4143 City GIS received on May 29, 2020	Dummy node created for missing inlet for WWSMP 2020	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed slope
4150 City GIS received on May 29, 2020	City GIS received on May 29, 2020	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	2013 DC Study Model	Computed slope
4151 City GIS received on May 29, 2020	City GIS received on May 29, 2020	Dummy node created for missing outlet for WWSMP 2020	City GIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	Engineering judgment for WWSMP 2020	Computed slope
4153 City GIS received on May 29, 2020	Dummy node created for missing inlet for WWSMP 2020	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed length	Engineering judgment for WWSMP 2020	City GIS received on May 29, 2020	Computed slope
4156 City GIS received on May 29, 2020	City GIS received on May 29, 2020	Dummy node created for missing outlet for WWSMP 2020	City GIS received on May 29, 2020	Computed length	Engineering judgment for WWSMP 2020	Engineering judgment for WWSMP 2020	Computed slope
4157 City GIS received on May 29, 2020	City GIS received on May 29. 2020	City GIS received on May 29. 2020	City GIS received on May 29. 2020	Computed length	City GIS received on May 29, 2020	2013 DC Study Model	Computed slope
4158 City GIS received on May 29, 2020	City GIS received on May 29, 2020	Corrected and filled missing outlet ID for WWSMP 2020	City GIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed slope
4164 City GIS received on May 29, 2020	City GIS received on May 29, 2020	Dummy node created for missing outlet for WW/SMP 2020	City GIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	Engineering judgment for WWSMP 2020	Computed slope
4165 City GIS received on May 29, 2020	City GIS received on May 29, 2020	City GIS received on May 29, 2020	City GIS received on May 29, 2020		2013 DC Study Model	City GIS received on May 29, 2020	Computed slope
4167 City GIS received on May 29, 2020	City GIS received on May 29, 2020	Dummy node created for missing outlet for WW/SMP 2020	City GIS received on May 29, 2020		City GIS received on May 20, 2020	City GIS received on May 20, 2020	Computed slope
 4191 City CIC received on May 20, 2020	City CIS received on May 20, 2020	Dummy node created for missing outlet for MMCMD 2020	City CIS received on May 20, 2020		City CIS received on May 20, 2020	Engineering judgment for WIMOND 2000	
4101 Jolly GIS received on May 29, 2020	City CIS received on May 29, 2020	Dummy node created for missing outlet for WWSMP 2020	City CIS received on May 29, 2020		City CIS received on May 29, 2020	City CIS received on May 20, 2020	
 4187 UILY GIS received on May 29, 2020	Dury GIS received on May 29, 2020	Duminy node created for missing outlet for WWSMP 2020	City GIS received on May 29, 2020		City CIS received on May 29, 2020	City CIS received on May 29, 2020	
	Corrected and filled missing inlet for WWSMP 2020	City CIC received or Max 00, 2020	City GIS received on May 29, 2020		City CID received on May 29, 2020	City CID received on May 29, 2020	
		Dity GIS received on May 29, 2020	City GIS received on May 29, 2020		City GIS received on May 29, 2020	City GIS received on May 29, 2020	
4196 UTY GIS received on May 29, 2020	Corrected and filled missing inlet ID for WWSMP 2020	Uity GIS received on May 29, 2020	Uity GIS received on May 29, 2020	Computed length	Ully GIS received on May 29, 2020	Ulty GIS received on May 29, 2020	Computed slope

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CONDUIT ID	ID_SOURCE	INLET_ID_SOURCE	OUTLET_ID_SOURCE	DIAMETER_SOURCE	LENGTH_SOURCE	UPINVERT_SOURCE	DOWNINVERT_SOURCE	SLOPE_SOURCE
	4198 City GIS received on May 29, 2020	City GIS received on May 29, 2020	Dummy node created for missing outlet for WWSMP 2020	City GIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	2013 DC Study Model	Computed slope
			Dummu node created for missing outlet for WIMCMD 2020		Computed longth			
	4206 City GIS received on May 29, 2020	City GIS received on May 29, 2020	Dummy node created for missing outlet for www.SiviP 2020	City GIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed slope
	4211 City GIS received on May 29, 2020	City GIS received on May 29, 2020	Dummy node created for missing outlet for WWSMP 2020	City GIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	Engineering judgment for WWSMP 2020	Computed slope
	4214 City GIS received on May 29, 2020	Dummy node created for missing inlet for WWSMP 2020	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed length	2013 DC Study Model	City GIS received on May 29, 2020	Computed slope
	4227 City CIS received on May 29, 2020	City GIS received on May 20, 2020	City CIS received on May 20, 2020	City CIS received on May 29, 2020	Computed length	2012 DC Study Model	2012 DC Study Model	
	4227 City GIS received on May 29, 2020		City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed length	2013 DC Sludy Model		Computed slope
	4228 City GIS received on May 29, 2020	Dummy node created for missing inlet for WWSMP 2020	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed slope
	4230 City GIS received on May 29, 2020	City GIS received on May 29, 2020	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	Engineering judgment for WWSMP 2020	Computed slope
	4026 City CIS received on May 20, 2020	City CIC received on May 20, 2020	Corrected and filled missing outlet ID for WW/CMD 2020	City CIE received on May 20, 2020	Computed length	City CIC received on May 20, 2020		Computed clope
	4236 City GIS received on May 29, 2020		Corrected and filled missing outlet ID for www.SiviP 2020	City GIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed slope
	4245 City GIS received on May 29, 2020	City GIS received on May 29, 2020	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed length	Engineering judgment for WWSMP 2020	City GIS received on May 29, 2020	Computed slope
	4249 City GIS received on May 29, 2020	Dummy node created for missing inlet for WWSMP 2020	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed slope
	4255 City GIS received on May 29, 2020	Dummy hode created for missing inlet for www.SiviP 2020	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed slope
	4258 City GIS received on May 29, 2020	City GIS received on May 29, 2020	CN# 2-1717 Drawings	City GIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	2013 DC Study Model	Computed slope
	4260 City GIS received on May 29, 2020	Dummy node created for missing inlet for WWSMP 2020	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed length	2013 DC Study Model	2013 DC Study Model	Computed slope
	4267 City GIS received on May 29, 2020	City GIS received on May 29, 2020	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed length	Engineering judgment for WWSMP 2020	Engineering judgment for WWSMP 2020	Computed slope
	4269 City GIS received on May 29, 2020	Dummy node created for missing inlet for WWSMP 2020	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed slope
	4276 City GIS received on May 29, 2020	Dummy node created for missing inlet for WWSMP 2020	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed slope
	4279 City GIS received on May 29, 2020	City GIS received on May 29, 2020	CN# 2-1717 Drawings	City GIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed slope
	4299 City GIS received on May 29, 2020	City GIS received on May 29, 2020	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	Engineering judgment for WWSMP 2020	Computed slope
	4308 City GIS received on May 29, 2020	City GIS received on May 29, 2020	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed length	Engineering judgment for WWSMP 2020	Engineering judgment for WWSMP 2020	Computed slope
	4313 City GIS received on May 29, 2020	City GIS received on May 29, 2020	Corrected and filled missing outlet ID for WWSMP 2020	City GIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed slope
	4332 City GIS received on May 29, 2020	City GIS received on May 29, 2020	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed length	Engineering judgment for WWSMP 2020	Engineering judgment for WWSMP 2020	Computed slope
	4353 City GIS received on May 29, 2020	City GIS received on May 29, 2020	City CIS received on May 29, 2020	City GIS received on May 29, 2020	Computed length	City CIS received on May 29, 2020	2013 DC Study Model	Computed slope
	4373 City GIS received on May 29, 2020	Dummy node created for missing inlet for WWSMP 2020	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed length	2013 DC Study Model	City GIS received on May 29, 2020	Computed slope
	4381 City GIS received on May 29, 2020	City GIS received on May 29, 2020	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed length	City GIS received on May 29. 2020	2013 DC Study Model	Computed slope
	1287 City CIS received on May 00, 0000	City CIS received on May 20, 2020	Corrected and filled missing outlet ID for M/M/CMD 2000	City GIS received on May 20, 2020	Computed length	City GIS received on May 20, 2020	City GIS received on May 20, 2020	Computed along
	4307 Uty dia received on May 29, 2020		Corrected and filled missing outlet ID for WWSMP 2020	City dia received on May 29, 2020		City dia received on May 29, 2020	City Gio received on May 29, 2020	Computed slope
	4394 City GIS received on May 29, 2020	City GIS received on May 29, 2020	Corrected and filled missing outlet ID for WWSMP 2020	City GIS received on May 29, 2020	Computed length	Engineering judgment for WWSMP 2020	Engineering judgment for WWSMP 2020	Computed slope
	4396 City GIS received on May 29, 2020	City GIS received on May 29, 2020	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed length	2013 DC Study Model	2013 DC Study Model	Computed slope
					Computed bingth			
	4397 City GIS received on May 29, 2020	Dummy node created for missing inlet for WWSMP 2020	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed slope
	4409 City GIS received on May 29, 2020	City GIS received on May 29, 2020	Corrected and filled missing outlet ID for WWSMP 2020	City GIS received on May 29, 2020	Computed length	Engineering judgment for WWSMP 2020	Engineering judgment for WWSMP 2020	Computed slope
	4417 City GIS received on May 29, 2020	City GIS received on May 29, 2020	Corrected and filled missing outlet ID for WWSMP 2020	City GIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed slope
						City dis received on May 25, 2020		
	4418 City GIS received on May 29, 2020	Dummy node created for missing inlet for WWSMP 2020	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed slope
	4421 City GIS received on May 29, 2020	City GIS received on May 29, 2020	Corrected and filled missing outlet ID for WWSMP 2020	City GIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed slope
	4424 City CIS received on May 29, 2020	City CIS received on May 20, 2020	City CIS received on May 20, 2020	City GIS received on May 29, 2020	Computed length	2012 DC Study Medel	City CIS received on May 29, 2020	Computed clope
	4424 City GIS received on May 29, 2020	City GIS received on May 29, 2020	City GIS received on May 29, 2020	City GIS received on May 29, 2020			City City City Tecelved off May 29, 2020	Computed slope
	4427 City GIS received on May 29, 2020	Corrected and filled missing inlet ID for WWSMP 2020	Corrected and filled missing outlet ID for WWSMP 2020	City GIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed slope
	4442 City GIS received on May 29, 2020	City GIS received on May 29, 2020	Dummy node created for missing outlet for WWSMP 2020	City GIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed slope
					Computed longth	0010 DC Otudu Madal	2010 DO Chudu Madal	
	4445 City GIS received on May 29, 2020	City GIS received on May 29, 2020	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed length	2013 DC Study Model	2013 DC Study Model	Computed slope
	4455 City GIS received on May 29, 2020	Dummy node created for missing inlet for WWSMP 2020	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed slope
	4463 City GIS received on May 29, 2020	City GIS received on May 29, 2020	Dummy node created for missing outlet for WWSMP 2020	City GIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed slope
		Oity ClO received on May 20, 2020	Durning hous created for missing extlet for WWOND 2020					
	4466 City GIS received on May 29, 2020	City GIS received on May 29, 2020	Dummy node created for missing outlet for WWSMP 2020	City GIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed slope
	4470 City GIS received on May 29, 2020	City GIS received on May 29, 2020	Corrected and filled missing outlet ID for WWSMP 2020	City GIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed slope
	4478 City CIS received on May 29, 2020	Dummy node created for missing inlat for WWSMP 2020	City GIS received on May 29, 2020	City CIS received on May 29, 2020	Computed length	Engineering judgment for WWSMP 2020	City GIS received on May 29, 2020	Computed slope
				City City City Celeved Off May 29, 2020	Computed length		City Cito received on May 29, 2020	Computed slope
	4490 City GIS received on May 29, 2020	City GIS received on May 29, 2020	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed length	2013 DC Study Model	City GIS received on May 29, 2020	Computed slope
	4497 City GIS received on May 29, 2020	City GIS received on May 29, 2020	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	2013 DC Study Model	Computed slope
					Computed longth	City CIC received on May 20, 2020		
	4498 City GIS received on May 29, 2020	City GIS received on May 29, 2020	Dummy node created for missing outlet for www.SiviP 2020	City GIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed slope
	4530 City GIS received on May 29, 2020	City GIS received on May 29, 2020	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	Engineering judgment for WWSMP 2020	Computed slope
	4535 City GIS received on May 29, 2020	City GIS received on May 29, 2020	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed length	2013 DC Study Model	City GIS received on May 29, 2020	Computed slope
					Computed longth		2010 DO Chudu Madal	
	4544 City GIS received on May 29, 2020	City GIS received on May 29, 2020	Dummy node created for missing outlet for www.SMP 2020	City GIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	2013 DC Study Model	Computed slope
	4566 City GIS received on May 29, 2020	City GIS received on May 29, 2020	Dummy node created for missing outlet for WWSMP 2020	City GIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	2013 DC Study Model	Computed slope
	4575 City GIS received on May 29, 2020	City GIS received on May 29, 2020	Dummy node created for missing outlet for WWSMP 2020	City GIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed slope
		Corrected and filled missing inlat ID for MIMOMD 2022	City CIP received on May 00, 0000	City CIP received on May 20, 2020	Computed loss sth	City CIP received on May 00, 0000		Computed class
L	4300 Uity dia received on May 29, 2020	Corrected and filled missing milet ID for WWSMP 2020	Uny GIO received on May 29, 2020	City GIS received on May 29, 2020		City dia received on May 29, 2020	City GIS received on May 29, 2020	Computed slope
	4604 City GIS received on May 29, 2020	City GIS received on May 29, 2020	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed length	Engineering judgment for WWSMP 2020	Engineering judgment for WWSMP 2020	Computed slope
	4661 City GIS received on May 29, 2020	City GIS received on May 29, 2020	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed length	Engineering judgment for WWSMP 2020	Engineering judgment for WWSMP 2020	Computed slope
	4663 City GIS received on May 29, 2020	City GIS received on May 29, 2020	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	Engineering judgment for WWSMP 2020	Computed slope
	4781 City GIS received on May 29, 2020	Dummy node created for missing inlet for WWSMP 2020	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed slope
	4784 City GIS received on May 29, 2020	Dummy node created for missing inlet for WWSMP 2020	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed slope
					Computed langet			
	4003 UILY GIS received on May 29, 2020	Duminy node created for missing inlet for WWSMP 2020	Uny GIO received on May 29, 2020	City dia received on May 29, 2020		City dia received on May 29, 2020	City GIS received on May 29, 2020	Computed slope
	4814 City GIS received on May 29, 2020	Dummy node created for missing inlet for WWSMP 2020	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed slope
	4815 City GIS received on May 29, 2020	City GIS received on May 29, 2020	Dummy node created for missing outlet for WWSMP 2020	City GIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed slope
		Organisation for the standard standard and the standard sta	Durning hous created for missing earlier for WWOND 2020					
	4821 Uity GIS received on May 29, 2020	Corrected and filled missing inlet ID for WWSMP 2020	Durning node created for missing outlet for WWSMP 2020	Uity GIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	Uily GIS received on May 29, 2020	Computed slope
	4827 City GIS received on May 29, 2020	City GIS received on May 29, 2020	Corrected and filled missing outlet ID for WWSMP 2020	City GIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed slope
	4834 City GIS received on May 29, 2020	City GIS received on May 29, 2020	Dummy node created for missing outlet for WWSMP 2020	City GIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed slope
	4864 City GIS received on May 29, 2020	Uity GIS received on May 29, 2020	Uity GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed length	Uity GIS received on May 29, 2020	Engineering judgment for WWSMP 2020	Computed slope
	4866 City GIS received on May 29, 2020	City GIS received on May 29, 2020	Dummy node created for missing outlet for WWSMP 2020	City GIS received on May 29, 2020	Computed length	Barton Estates SPS Drawings	Barton Estates SPS Drawings	Computed slope
	4884 City GIS received on May 29, 2020	City GIS received on May 29, 2020	Dummy node created for missing outlet for WIMSMP 2020	City GIS received on May 20, 2020	Computed length	City GIS received on May 20, 2020	City GIS received on May 29, 2020	Computed slope
	4887 City GIS received on May 29, 2020	Dummy node created for missing inlet for WWSMP 2020	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	Gity GIS received on May 29, 2020	Computed slope
	4901 City GIS received on May 29, 2020	Dummy node created for missing inlet for WWSMP 2020	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed slope
	4924 City GIS received on May 20, 2020	City GIS received on May 29, 2020	City GIS received on May 29, 2020	City GIS received on May 20, 2020	Computed longth	2013 DC Study Model	City GIS received on May 29, 2020	Computed close
				ony dio received on Way 23, 2020				
	4961 City GIS received on May 29, 2020	City GIS received on May 29, 2020	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	2013 DC Study Model	Computed slope
	4965 City GIS received on May 29, 2020	City GIS received on May 29, 2020	City GIS received on May 29, 2020	City GIS received on May 29. 2020	Computed length	2013 DC Study Model	City GIS received on May 29, 2020	Computed slope
		City CIP received on May 20, 2020	City CIS received on May 20, 2000	City GIS received on May 00, 0000	Computed least	2012 DC Study Model	2012 DC Study Model	Computed days
	4909 UILY GIS received on May 29, 2020	Unity GIS received on May 29, 2020	Uny GIO received on May 29, 2020	Uity dia received on May 29, 2020		2013 DC Sludy Model	2013 DC Sludy Model	Computed slope
	5023 City GIS received on May 29, 2020	Dummy node created for missing inlet for WWSMP 2020	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed length	2013 DC Study Model	City GIS received on May 29, 2020	Computed slope
	5024 City GIS received on May 29, 2020	Dummy node created for missing inlet for WWSMP 2020	City GIS received on May 29. 2020	City GIS received on May 29, 2020	Computed length	City GIS received on May 29. 2020	City GIS received on May 29, 2020	Computed slope
		City CIP received on May 00, 0000			Computed larget		2012 DC Study Madel	Computed dispo
	SU29 UILY GIS received on May 29, 2020	Uity GIS received on May 29, 2020	Dummy node created for missing outlet for WWSMP 2020	Uty dia received on May 29, 2020	Computed length	Uity dia received on May 29, 2020	2013 DC Study Wodel	Computed slope
	5030 City GIS received on May 29, 2020	Dummy node created for missing inlet for WWSMP 2020	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed length	2013 DC Study Model	City GIS received on May 29, 2020	Computed slope
	5046 City GIS received on May 29, 2020	City GIS received on May 29, 2020	Corrected and filled missing outlet ID for WWSMP 2020	City GIS received on May 29, 2020	Computed length	City GIS received on May 29. 2020	City GIS received on May 29, 2020	Computed slope
	5047 City CIS received on May 00, 0000	Corrected and filled missing inlet ID for MM/SMD 2020	City CIS received on May 20, 2020	City GIS received on May 20, 2020	Computed longth	City CIS received on May 20, 2020	City CIS received on May 20, 2020	Computed class
	5047 Unity dis received on May 29, 2020	Corrected and miled missing milet ID for WWSMP 2020	Uny GIO received Off May 29, 2020	Ulty GIS received on May 29, 2020		Uity dio received on May 29, 2020	Uny GIS received on May 29, 2020	Computed slope
	5138 City GIS received on May 29, 2020	City GIS received on May 29, 2020	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed length	2013 DC Study Model	City GIS received on May 29, 2020	Computed slope

						DOWNINVERT SOURCE	
E167 City CIS received on May 20, 2020	City CIS received on May 20, 2020		City CIS received on May 20, 2020		City CIS received on May 20, 2020	2012 DC Study Medel	
	Dummy hode created for missing inlet for WWSMP 2020	City GIS received on May 29, 2020	City GIS received on May 29, 2020				
 5203 City GIS received on May 29, 2020	City GIS received on May 29, 2020	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed length	Engineering judgment for WWSMP 2020	Engineering judgment for WWSMP 2020	Computed slope
 5238 City GIS received on May 29, 2020	City GIS received on May 29, 2020	Dummy node created for missing outlet for WWSMP 2020	City GIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed slope
 5242 City GIS received on May 29, 2020	City GIS received on May 29, 2020	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	2013 DC Study Model	Computed slope
5251 City GIS received on May 29, 2020	Corrected and filled missing inlet ID for WWSMP 2020	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed slope
5256 City GIS received on May 29, 2020	Dummy node created for missing inlet for WWSMP 2020	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed length	2013 DC Study Model	2013 DC Study Model	Computed slope
5263 City GIS received on May 29, 2020	Dummy node created for missing inlet for WWSMP 2020	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed slope
5264 City GIS received on May 29, 2020	City GIS received on May 29, 2020	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed length	Engineering judgment for WWSMP 2020	Engineering judgment for WWSMP 2020	Computed slope
5309 City GIS received on May 29, 2020	Dummy node created for missing inlet for WWSMP 2020	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed slope
5319 City GIS received on May 29, 2020	City GIS received on May 29, 2020	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	2013 DC Study Model	Computed slope
5320 City GIS received on May 29, 2020	City GIS received on May 29, 2020	Corrected and filled missing outlet ID for WWSMP 2020	City GIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed slope
5325 City GIS received on May 29, 2020	City GIS received on May 29, 2020	Dummy node created for missing outlet for WWSMP 2020	City GIS received on May 29, 2020	Computed length	Engineering judgment for WWSMP 2020	Engineering judgment for WWSMP 2020	Computed slope
5338 City GIS received on May 29, 2020	City GIS received on May 29, 2020	Dummy node created for missing outlet for WWSMP 2020	City GIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed slope
5339 City GIS received on May 29, 2020	Dummy node created for missing inlet for WWSMP 2020	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed slope
5345 City GIS received on May 29, 2020	Dummy node created for missing inlet for WWSMP 2020	Dummy node created for missing outlet for WWSMP 2020	City GIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed slope
5349 City GIS received on May 29, 2020	City GIS received on May 29, 2020	Corrected and filled missing outlet ID for WWSMP 2020	City GIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed slope
5390 City GIS received on May 29, 2020	City GIS received on May 29, 2020	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	Engineering judgment for WWSMP 2020	Computed slope
5391 City GIS received on May 29, 2020	City GIS received on May 29, 2020	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed length	Engineering judgment for WWSMP 2020	City GIS received on May 29, 2020	Computed slope
5397 City GIS received on May 29, 2020	City GIS received on May 29, 2020	Corrected and filled missing outlet ID for WWSMP 2020	City GIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed slope
5411 City GIS received on May 29, 2020	City GIS received on May 29, 2020	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	2013 DC Study Model	
E415 City CIS received on May 29, 2020	Dummy pada arapted for missing inlet for W/W/SMR 2020	City CIS received on May 29, 2020	City CIS received on May 29, 2020	Computed length	2012 DC Study Medel	City CIS received on May 20, 2020	
5415 City CIS received on May 29, 2020	Corrected and filled missing inlet ID for MWSMP 2020	City CIS received on May 29, 2020	City CIS received on May 29, 2020	Computed length	Engineering judgment for WWEND 2020	Engineering indement for WINCMD 2020	
5431 City GIS received on May 29, 2020	Corrected and filled missing inlet ID for WWSIMP 2020	City GIS received off May 29, 2020	City CIS received on May 29, 2020	Computed length	City Clorespined on May 20, 2020		
5436 City GIS received on May 29, 2020		Durning hode created for missing outlet for www.SMP 2020			City GIS received on May 29, 2020	City GIS received on May 29, 2020	
5439 City GIS received on May 29, 2020	City GIS received on May 29, 2020	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed length	Engineering judgment for WWSMP 2020	Engineering judgment for WWSMP 2020	Computed slope
 545/ City GIS received on May 29, 2020	City GIS received on May 29, 2020	Dummy node created for missing outlet for WWSMP 2020	City GIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed slope
 5458 City GIS received on May 29, 2020	Dummy node created for missing inlet for WWSMP 2020	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed slope
5476 City GIS received on May 29, 2020	City GIS received on May 29, 2020	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed length	2013 DC Study Model	City GIS received on May 29, 2020	Computed slope
 5489 City GIS received on May 29, 2020	City GIS received on May 29, 2020	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	2013 DC Study Model	Computed slope
5540 City GIS received on May 29, 2020	City GIS received on May 29, 2020	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	2013 DC Study Model	Computed slope
5548 City GIS received on May 29, 2020	Dummy node created for missing inlet for WWSMP 2020	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed slope
5577 City GIS received on May 29, 2020	Dummy node created for missing inlet for WWSMP 2020	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed slope
5579 City GIS received on May 29, 2020	Dummy node created for missing inlet for WWSMP 2020	Dummy node created for missing outlet for WWSMP 2020	City GIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed slope
5580 City GIS received on May 29, 2020	Dummy node created for missing inlet for WWSMP 2020	Dummy node created for missing outlet for WWSMP 2020	City GIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed slope
5583 City GIS received on May 29, 2020	City GIS received on May 29, 2020	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	Engineering judgment for WWSMP 2020	Computed slope
5644 City GIS received on May 29, 2020	City GIS received on May 29, 2020	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	Engineering judgment for WWSMP 2020	Computed slope
5655 City GIS received on May 29, 2020	City GIS received on May 29, 2020	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	2013 DC Study Model	Computed slope
5676 City GIS received on May 29, 2020	City GIS received on May 29, 2020	Dummy node created for missing outlet for WWSMP 2020	City GIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed slope
5677 City GIS received on May 29, 2020	Dummy node created for missing inlet for WWSMP 2020	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed slope
5696 City GIS received on May 29, 2020	City GIS received on May 29, 2020	Dummy node created for missing outlet for WWSMP 2020	City GIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed slope
5699 City GIS received on May 29, 2020	Dummy node created for missing inlet for WWSMP 2020	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed length	2013 DC Study Model	2013 DC Study Model	Computed slope
5743 City GIS received on May 29, 2020	City GIS received on May 29, 2020	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed length	2013 DC Study Model	2013 DC Study Model	Computed slope
5744 City GIS received on May 29, 2020	City GIS received on May 29, 2020	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed length	2013 DC Study Model	2013 DC Study Model	Computed slope
5844 City CIS received on May 29, 2020	City CIS received on May 29, 2020	City GIS received on May 29, 2020	City GIS received on May 29, 2020		Landfill on Eastside SPS Drawings	Landfill on Eastside SPS Drawings	Computed slope
ESEC City CIS received on May 29, 2020	City CIS received on May 29, 2020	Corrected and filled missing outlet ID for WIWEMD 2020	City CIS received on May 29, 2020	Computed length	City CIS received on May 20, 2020	City CIS received on May 20, 2020	
5850 City CIS received on May 29, 2020	Dummy node created for missing inlet for MIMCMD 2020		City CIS received on May 29, 2020	Computed length	City CIS received on May 29, 2020	City CIS received on May 29, 2020	
5857 City GIS received on May 29, 2020	Durning flode created for missing inlet for WWSMP 2020	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	City GIS received on May 29, 2020	
5859 City GIS received on May 29, 2020	Corrected and filled missing inlet ID for WWSMP 2020	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed slope
 5861 City GIS received on May 29, 2020	City GIS received on May 29, 2020	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed length	Engineering judgment for WWSMP 2020	Engineering judgment for WWSMP 2020	Computed slope
 5862 City GIS received on May 29, 2020	City GIS received on May 29, 2020	Corrected and filled missing outlet ID for WWSMP 2020	City GIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed slope
 5863 City GIS received on May 29, 2020	Corrected and filled missing inlet ID for WWSMP 2020	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed slope
5878 City GIS received on May 29, 2020	Corrected and filled missing inlet ID for WWSMP 2020	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed length	Engineering judgment for WWSMP 2020	City GIS received on May 29, 2020	Computed slope
5916 City GIS received on May 29, 2020	Corrected and filled missing inlet ID for WWSMP 2020	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed slope
 5920 City GIS received on May 29, 2020	City GIS received on May 29, 2020	Corrected and filled missing outlet ID for WWSMP 2020	City GIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed slope
 5925 City GIS received on May 29, 2020	City GIS received on May 29, 2020	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	2013 DC Study Model	Computed slope
5927 City GIS received on May 29, 2020	City GIS received on May 29, 2020	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed length	2013 DC Study Model	2013 DC Study Model	Computed slope
5929 City GIS received on May 29, 2020	City GIS received on May 29, 2020	Corrected and filled missing outlet ID for WWSMP 2020	City GIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed slope
5941 City GIS received on May 29, 2020	City GIS received on May 29, 2020	Dummy node created for missing outlet for WWSMP 2020	City GIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed slope
6054 City GIS received on May 29, 2020	Dummy node created for missing inlet for WWSMP 2020	Dummy node created for missing outlet for WWSMP 2020	City GIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	2013 DC Study Model	Computed slope
6104 City GIS received on May 29, 2020	Dummy node created for missing inlet for WWSMP 2020	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed slope
6110 City GIS received on May 29, 2020	City GIS received on May 29, 2020	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	2013 DC Study Model	Computed slope
6115 City GIS received on May 29, 2020	City GIS received on May 29, 2020	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed length	Engineering judgment for WWSMP 2020	Engineering judgment for WWSMP 2020	Computed slope
6128 City GIS received on May 29, 2020	City GIS received on May 29, 2020	Dummy node created for missing outlet for WWSMP 2020	City GIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed slope
6147 City GIS received on May 29, 2020	City GIS received on May 29, 2020	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed length	2013 DC Study Model	2013 DC Study Model	Computed slope
6149 City GIS received on May 29, 2020	Dummy node created for missing inlet for WWSMP 2020	City GIS received on May 29. 2020	City GIS received on May 29. 2020	Computed length	City GIS received on May 29. 2020	City GIS received on May 29. 2020	Computed slope
6221 City GIS received on May 29, 2020	Dummy node created for missing inlet for WWSMP 2020	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed slope
6315 City GIS received on May 29, 2020	Dummy node created for missing inlet for WWSMP 2020	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed slope
6319 City GIS received on May 29, 2020	Dummy node created for missing inlet for WWSMP 2020	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed slope
6320 City GIS received on May 29, 2020	City GIS received on May 29, 2020	City GIS received on May 20, 2020	City GIS received on May 29, 2020	Computed length	2013 DC Study Model	2013 DC Study Model	
6200 City CIS received on May 29, 2020	City CIS received on May 20, 2020	Dummy node prosted for missing sutlet for MUMOND 2000	City CIS received on May 20, 2020		City CIS received on May 20, 2020		
		City CIC received or Missing Outlet for WWSMP 2020			City CID received on May 29, 2020		
 6412 Uity GIS received on May 29, 2020	Dummy node created for missing inlet for WWSMP 2020	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed slope
 6423 City GIS received on May 29, 2020	Dummy node created for missing inlet for WWSMP 2020	Uity GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed length	Lity GIS received on May 29, 2020	Lity GIS received on May 29, 2020	Computed slope
 6445 City GIS received on May 29, 2020	City GIS received on May 29, 2020	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed length	2013 DC Study Model	2013 DC Study Model	Computed slope
 6493 City GIS received on May 29, 2020	Dummy node created for missing inlet for WWSMP 2020	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed slope
 6494 City GIS received on May 29, 2020	Dummy node created for missing inlet for WWSMP 2020	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed slope
 6506 City GIS received on May 29, 2020	Dummy node created for missing inlet for WWSMP 2020	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed slope
 6508 City GIS received on May 29, 2020	Dummy node created for missing inlet for WWSMP 2020	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed slope
6510 City GIS received on May 29, 2020	Dummy node created for missing inlet for WWSMP 2020	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed slope

				LENGTH_SOURCE			SLOPE_SOURCE
6514 City GIS received on May 29, 2020	Dummy node created for missing inlet for WWSMP 2020	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed slope
6641 City GIS received on May 29, 2020	Dummy node created for missing inlet for WWSMP 2020	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed slope
6642 City GIS received on May 29, 2020	City GIS received on May 29, 2020	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed length	Engineering judgment for WWSMP 2020	City GIS received on May 29, 2020	Computed slope
6737 City GIS received on May 29, 2020	Dummy node created for missing inlet for WWSMP 2020	Dummy node created for missing outlet for WWSMP 2020	City GIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed slope
6743 City GIS received on May 29, 2020	City GIS received on May 29, 2020	Dummy node created for missing outlet for WWSMP 2020	City GIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed slope
6747 City GIS received on May 29, 2020	City GIS received on May 29, 2020	Dummy node created for missing outlet for WWSMP 2020	City GIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed slope
6759 City GIS received on May 29, 2020	City GIS received on May 29, 2020	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed length	Engineering judgment for WWSMP 2020	Engineering judgment for WWSMP 2020	Computed slope
6825 City GIS received on May 29, 2020	City GIS received on May 29, 2020	Dummy node created for missing outlet for WWSMP 2020	City GIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed slope
6852 City GIS received on May 29, 2020	City GIS received on May 29, 2020	Dummy node created for missing outlet for WWSMP 2020	City GIS received on May 29, 2020	Computed length	Engineering judgment for WWSMP 2020	City GIS received on May 29, 2020	
6852 City CIS received on May 20, 2020	Dummy node exected for missing inlet for W/WSMP 2020	City CIS received on May 20, 2020	City CIS received on May 29, 2020	Computed length	City CIS received on May 20, 2020	City CIS received on May 29, 2020	
	Durinity hode created for missing linet for WWSIMP 2020	City dis received on May 29, 2020	City CIS received on May 29, 2020		City GIS received on May 29, 2020	City CIS received on May 29, 2020	
6878 City GIS received on May 29, 2020	City GIS received on May 29, 2020	Dummy hode created for missing outlet for wwSMP 2020	City GIS received on May 29, 2020		City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed slope
 6879 City GIS received on May 29, 2020	Dummy node created for missing inlet for WWSMP 2020	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed slope
 6880 City GIS received on May 29, 2020	City GIS received on May 29, 2020	Dummy node created for missing outlet for WWSMP 2020	City GIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed slope
 6934 City GIS received on May 29, 2020	City GIS received on May 29, 2020	Dummy node created for missing outlet for WWSMP 2020	City GIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed slope
6938 City GIS received on May 29, 2020	City GIS received on May 29, 2020	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	2013 DC Study Model	Computed slope
6955 City GIS received on May 29, 2020	Dummy node created for missing inlet for WWSMP 2020	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed slope
6956 City GIS received on May 29, 2020	City GIS received on May 29, 2020	Dummy node created for missing outlet for WWSMP 2020	City GIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed slope
6957 City GIS received on May 29, 2020	City GIS received on May 29, 2020	Dummy node created for missing outlet for WWSMP 2020	City GIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed slope
6960 City GIS received on May 29, 2020	Corrected and filled missing inlet ID for WWSMP 2020	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed slope
6965 City GIS received on May 29, 2020	Dummy node created for missing inlet for WWSMP 2020	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed slope
6987 City GIS received on May 29, 2020	City GIS received on May 29, 2020	Dummy node created for missing outlet for WWSMP 2020	City GIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	City GIS received on May 29, 2020	
6000 City CIS received on May 20, 2020	City CIS received on May 29, 2020	City CIS received on May 20, 2020	City CIS received on May 20, 2020	Computed length	City CIS received on May 20, 2020	Engineering judgment for WW/SMR 2020	
	Dury CIS received on May 29, 2020				City CIS received on May 29, 2020	City CIC received on May 20, 2020	
6992 City GIS received on May 29, 2020	Dummy hode created for missing inlet for WWSMP 2020		City GIS received on May 29, 2020		City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed slope
 5994 UIIY GIS received on May 29, 2020	Durning node created for missing inlet for WWSMP 2020	Loty GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed length	Oity GIS received on May 29, 2020	ouy dis received on May 29, 2020	Computed slope
7151 City GIS received on May 29, 2020	Dummy node created for missing inlet for WWSMP 2020	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed slope
 7165 City GIS received on May 29, 2020	Dummy node created for missing inlet for WWSMP 2020	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed slope
7181 City GIS received on May 29, 2020	City GIS received on May 29, 2020	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed length	Engineering judgment for WWSMP 2020	Engineering judgment for WWSMP 2020	Computed slope
7190 City GIS received on May 29, 2020	Dummy node created for missing inlet for WWSMP 2020	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed slope
7225 City GIS received on May 29, 2020	City GIS received on May 29, 2020	Dummy node created for missing outlet for WWSMP 2020	City GIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed slope
7226 City GIS received on May 29, 2020	Dummy node created for missing inlet for WWSMP 2020	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed slope
7256 City GIS received on May 29, 2020	Dummy node created for missing inlet for WWSMP 2020	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed slope
7257 City GIS received on May 29, 2020	Dummy node created for missing inlet for WWSMP 2020	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed length	Engineering judgment for WWSMP 2020	City GIS received on May 29, 2020	Computed slope
7259 City GIS received on May 29, 2020	City GIS received on May 29, 2020	Dummy node created for missing outlet for WWSMP 2020	City GIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed slope
7269 City GIS received on May 29, 2020	Dummy node created for missing inlet for WWSMP 2020	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed slope
7270 City CIS received on May 29, 2020	City GIS received on May 29, 2020	Dummy node created for missing outlet for W/WSMP 2020	City CIS received on May 29, 2020	Computed length	City CIS received on May 29, 2020	City CIS received on May 29, 2020	
7270 City CIS received on May 29, 2020	Dummy node exected for missing inlet for W/WSMP 2020	City CIS received on May 20, 2020	City CIS received on May 29, 2020	Computed length	City CIS received on May 29, 2020	City CIS received on May 29, 2020	Computed slope
7272 City CIS received on May 29, 2020	Durning hode created for missing inlet for WWSMP 2020		City GIS received on May 29, 2020		City GIS received on May 29, 2020	City GIS received on May 29, 2020	
	Durning hode created for missing inlet for www.SwiP 2020		City GIS received on May 29, 2020		City GIS received on May 29, 2020	City GIS received on May 29, 2020	
7302 City GIS received on May 29, 2020	City GIS received on May 29, 2020	Dummy node created for missing outlet for WWSMP 2020	City GIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed slope
7306 City GIS received on May 29, 2020	Dummy node created for missing inlet for WWSMP 2020	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed slope
 7317 City GIS received on May 29, 2020	City GIS received on May 29, 2020	Dummy node created for missing outlet for WWSMP 2020	City GIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	2013 DC Study Model	Computed slope
7320 City GIS received on May 29, 2020	City GIS received on May 29, 2020	Dummy node created for missing outlet for WWSMP 2020	City GIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed slope
7321 City GIS received on May 29, 2020	Dummy node created for missing inlet for WWSMP 2020	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed slope
7335 City GIS received on May 29, 2020	Corrected and filled missing inlet ID for WWSMP 2020	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed slope
7349 City GIS received on May 29, 2020	City GIS received on May 29, 2020	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	Engineering judgment for WWSMP 2020	Computed slope
7364 City GIS received on May 29, 2020	Dummy node created for missing inlet for WWSMP 2020	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed slope
7365 City GIS received on May 29, 2020	City GIS received on May 29, 2020	Dummy node created for missing outlet for WWSMP 2020	City GIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed slope
7375 City GIS received on May 29, 2020	City GIS received on May 29, 2020	Dummy node created for missing outlet for WWSMP 2020	City GIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	City GIS received on May 29, 2020	
7379 City CIS received on May 29, 2020	Dummy node created for missing inlet for WWSMP 2020	City CIS received on May 29, 2020	City CIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	City GIS received on May 29, 2020	
7379 City CIS received on May 29, 2020	Dummy node created for missing inlet for WWSMP 2020	City CIS received on May 29, 2020	City CIS received on May 29, 2020	Computed length	City CIS received on May 29, 2020	City CIS received on May 29, 2020	
 7300 City CIS received on May 29, 2020	City CIS received on May 20, 2020	Dummy node prosted for missing sutlet for MUMOND 2000	City CIS received on May 23, 2020		City CIC received on May 23, 2020	City CIS received on May 29, 2020	
7388 City GIS received on May 29, 2020	City GIS received on May 29, 2020	Dummy node created for missing outlet for WWSMP 2020	City GIS received on May 29, 2020		City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed slope
7400 City GIS received on May 29, 2020	Dummy node created for missing inlet for WWSMP 2020	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed slope
 7404 City GIS received on May 29, 2020	City GIS received on May 29, 2020	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed length	Engineering judgment for WWSMP 2020	Engineering judgment for WWSMP 2020	Computed slope
 7449 City GIS received on May 29, 2020	City GIS received on May 29, 2020	Dummy node created for missing outlet for WWSMP 2020	City GIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed slope
 7450 City GIS received on May 29, 2020	Dummy node created for missing inlet for WWSMP 2020	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed slope
7451 City GIS received on May 29, 2020	City GIS received on May 29, 2020	Dummy node created for missing outlet for WWSMP 2020	City GIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed slope
7458 City GIS received on May 29, 2020	Corrected and filled missing inlet ID for WWSMP 2020	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed slope
7461 City GIS received on May 29, 2020	Dummy node created for missing inlet for WWSMP 2020	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed length	2013 DC Study Model	2013 DC Study Model	Computed slope
7464 City GIS received on May 29, 2020	City GIS received on May 29, 2020	Dummy node created for missing outlet for WWSMP 2020	City GIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed slope
7468 City GIS received on May 29, 2020	Dummy node created for missing inlet for WWSMP 2020	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed slope
7469 City GIS received on May 29, 2020	Dummy node created for missing inlet for WWSMP 2020	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed slope
7470 City GIS received on May 29, 2020	Dummy node created for missing inlet for WWSMP 2020	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	City GIS received on May 29, 2020	
7470 City CIS received on May 29, 2020	City GIS received on May 29, 2020	Dummy node created for missing outlet for W/WSMP 2020	City CIS received on May 29, 2020	Computed length	City CIS received on May 29, 2020	City GIS received on May 29, 2020	Computed slope
7478 City CIS received on May 29, 2020	Dury CIS received on Way 29, 2020	City CIC received on May 00, 0000	City CIS received on May 29, 2020	Computed length	Engineering judgment for MMCMD 2000	City CIS received on May 29, 2020	
	Dummy node created for missing inlet for WWSMP 2020	City CIC received on May 29, 2020					
7491 Uity GIS received on May 29, 2020	Durning node created for missing inlet for WWSMP 2020	Uty GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed length	UIU GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed slope
 /50/ City GIS received on May 29, 2020	City GIS received on May 29, 2020	Dummy node created for missing outlet for WWSMP 2020	City GIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed slope
 7513 City GIS received on May 29, 2020	Dummy node created for missing inlet for WWSMP 2020	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed slope
7538 City GIS received on May 29, 2020	City GIS received on May 29, 2020	Dummy node created for missing outlet for WWSMP 2020	City GIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed slope
7577 City GIS received on May 29, 2020	City GIS received on May 29, 2020	Dummy node created for missing outlet for WWSMP 2020	City GIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed slope
7607 City GIS received on May 29, 2020	City GIS received on May 29, 2020	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed length	Engineering judgment for WWSMP 2020	Engineering judgment for WWSMP 2020	Computed slope
7608 City GIS received on May 29, 2020	Corrected and filled missing inlet ID for WWSMP 2020	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed slope
7693 City GIS received on May 29. 2020	Dummy node created for missing inlet for WWSMP 2020	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed slope
7706 City GIS received on May 29, 2020	City GIS received on May 29. 2020	City GIS received on May 29. 2020	City GIS received on May 29, 2020	Computed length	Engineering judament for WWSMP 2020	Engineering judament for WWSMP 2020	Computed slope
7721 City GIS received on May 29, 2020	City GIS received on May 29, 2020	Dummy node created for missing outlet for WWSMP 2020	City GIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed slope
7722 City GIS received on May 20, 2020	Dummy node created for missing inlet for W/W/SMP 2020	City GIS received on May 29, 2020	City GIS received on May 20, 2020	Computed length	City GIS received on May 20, 2020	City GIS received on May 20, 2020	Computed clope
7728 City CIS received on May 29, 2020	Dummy node created for missing inlet for WWEMD 2020	City CIS received on May 29, 2020	City GIS received on May 20, 2020		City GIS received on May 20, 2020	City GIS received on May 20, 2020	Computed slope
 7720 City CIS received on May 29, 2020	Dummy node created for missing inlet for WWOMP 2020	City CIC received on May 20, 2020	City CIS received on May 23, 2020		City CIC received on Way 23, 2020	City CIS received on May 29, 2020	
	Durning houe created for missing inlet for www.SMP 2020						
(13) Ully GIS received on May 29, 2020	Durning node created for missing inlet for WWSMP 2020	Long Gio received on May 29, 2020	Ully GIS received on May 29, 2020	Computed length	Uity dia received on May 29, 2020	Unity GIS received on May 29, 2020	Computed slope

CONDUIT ID	ID_SOURCE	INLET_ID_SOURCE	OUTLET_ID_SOURCE	DIAMETER_SOURCE	LENGTH_SOURCE	UPINVERT_SOURCE	DOWNINVERT_SOURCE	SLOPE_SOURCE
	7732 City GIS received on May 29, 2020	Dummy node created for missing inlet for WWSMP 2020	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed slope
	7734 City GIS received on May 29, 2020	Dummy node created for missing inlet for WWSMP 2020	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed slope
	7704 City CIO received on May 20, 2020		Dummu node exected for missing outlet for WIMCMD 0000	City CIC received on May 20, 2020		City CIC received on May 20, 2020	City CIC received on May 20, 2020	
	7746 City GIS received on May 29, 2020	City GIS received on May 29, 2020	Dummy node created for missing outlet for www.SMP 2020	City GIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed slope
	7751 City GIS received on May 29, 2020	Dummy node created for missing inlet for WWSMP 2020	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed slope
	7762 City GIS received on May 29, 2020	Dummy node created for missing inlet for WWSMP 2020	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed slope
	7783 City GIS received on May 29, 2020	City GIS received on May 29, 2020	Dummy node created for missing outlet for WWSMP 2020	City GIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed slope
	7791 City GIS received on May 29, 2020	City GIS received on May 29, 2020	Dummy node created for missing outlet for WWSMP 2020	City GIS received on May 29, 2020		City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed slope
	7802 City GIS received on May 29, 2020	City GIS received on May 29, 2020	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed length	Engineering judgment for wwwSMP 2020	Engineering judgment for WWSMP 2020	Computed slope
	7803 City GIS received on May 29, 2020	City GIS received on May 29, 2020	Dummy node created for missing outlet for WWSMP 2020	City GIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed slope
	7804 City GIS received on May 29, 2020	City GIS received on May 29, 2020	Dummy node created for missing outlet for WWSMP 2020	City GIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed slope
	7809 City GIS received on May 29, 2020	Dummy node created for missing inlet for WWSMP 2020	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed slope
	7811 City GIS received on May 29, 2020	City GIS received on May 29, 2020	Dummy node created for missing outlet for WWSMP 2020	City GIS received on May 29, 2020		City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed slope
	7815 City CIS received on May 20, 2020	Dummy and a created for missing inlet for W/WSMD 2020	City CIS received on May 20, 2020	City CIE received on May 20, 2020		City CIS received on May 20, 2020	City CIS received on May 20, 2020	
	7815 City GIS received off May 29, 2020	Dummy hode created for missing lifet for www.SwiP 2020		City GIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed slope
	7816 City GIS received on May 29, 2020	City GIS received on May 29, 2020	Dummy node created for missing outlet for WWSMP 2020	City GIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed slope
	7821 City GIS received on May 29, 2020	City GIS received on May 29, 2020	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed length	2013 DC Study Model	2013 DC Study Model	Computed slope
	7822 City GIS received on May 29, 2020	City GIS received on May 29, 2020	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed length	2013 DC Study Model	2013 DC Study Model	Computed slope
	7825 City GIS received on May 29, 2020	City GIS received on May 29, 2020	Dummy node created for missing outlet for WWSMP 2020	City GIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed slope
	7830 City GIS received on May 29, 2020	City GIS received on May 29, 2020	City GIS received on May 29, 2020	City GIS received on May 29, 2020		2013 DC Study Model	2013 DC Study Model	Computed slope
		Oity ClO received on May 20, 2020		Oity CIO received on May 23, 2020				
	7831 City GIS received on May 29, 2020	City GIS received on May 29, 2020	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed length	2013 DC Study Model	2013 DC Study Model	Computed slope
	7834 City GIS received on May 29, 2020	City GIS received on May 29, 2020	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed length	2013 DC Study Model	2013 DC Study Model	Computed slope
	7847 City GIS received on May 29, 2020	Dummy node created for missing inlet for WWSMP 2020	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed length	Engineering judgment for WWSMP 2020	2013 DC Study Model	Computed slope
	7848 City GIS received on May 29, 2020	Dummy node created for missing inlet for WWSMP 2020	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed length	2013 DC Study Model	2013 DC Study Model	Computed slope
	7863 City GIS received on May 29, 2020	City GIS received on May 29, 2020	Dummy node created for missing outlet for WWSMP 2020	City GIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed slope
	7963 City GIS received on May 20, 2020	City GIS received on May 29, 2020	Dummy node created for missing outlet for WWSMP 2020	City GIS received on May 29, 2020	Computed length	City GIS received on May 20, 2020	City GIS received on May 20, 2020	Computed slope
	7967 City GIS received on May 29, 2020	Dummy node created for missing inlet for WWSMP 2020	Uty GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed length	Engineering judgment for WWSMP 2020	City GIS received on May 29, 2020	Computed slope
	7969 City GIS received on May 29, 2020	Dummy node created for missing inlet for WWSMP 2020	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed length	Engineering judgment for WWSMP 2020	Engineering judgment for WWSMP 2020	Computed slope
	7970 City GIS received on May 29, 2020	City GIS received on May 29, 2020	Dummy node created for missing outlet for WWSMP 2020	City GIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed slope
	7971 City GIS received on May 29, 2020	Dummy node created for missing inlet for WWSMP 2020	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed length	Engineering judgment for WWSMP 2020	City GIS received on May 29, 2020	Computed slope
	7072 City GIS received on May 20, 2020	Dummy node created for missing inlet for WWSMP 2020	City CIS received on May 20, 2020	City CIS received on May 20, 2020	Computed length	Engineering judgment for WWSMP 2020	Engineering judgment for WWSMP 2020	Computed slope
	8030 City GIS received on May 29, 2020	City GIS received on May 29, 2020	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed length	2013 DC Study Model	2013 DC Study Model	Computed slope
	8031 City GIS received on May 29, 2020	City GIS received on May 29, 2020	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed length	2013 DC Study Model	2013 DC Study Model	Computed slope
	8032 City GIS received on May 29, 2020	City GIS received on May 29, 2020	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed length	2013 DC Study Model	2013 DC Study Model	Computed slope
	8033 City GIS received on May 29, 2020	City GIS received on May 29, 2020	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed length	2013 DC Study Model	2013 DC Study Model	Computed slope
	8034 City GIS received on May 29, 2020	Dummy node created for missing inlet for WWSMP 2020	City GIS received on May 29, 2020	City GIS received on May 29, 2020		2013 DC Study Model	2013 DC Study Model	Computed slope
	8025 City CIS received on May 20, 2020	City CIE received on May 20, 2020	City CIE received on May 20, 2020	City CIS received on May 20, 2020	Computed length	2012 DC Study Model	2012 DC Study Model	
	8036 City GIS received on May 29, 2020	City GIS received on May 29, 2020	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed length	2013 DC Study Model	2013 DC Study Model	Computed slope
	8037 City GIS received on May 29, 2020	City GIS received on May 29, 2020	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed length	2013 DC Study Model	2013 DC Study Model	Computed slope
	8038 City GIS received on May 29, 2020	City GIS received on May 29, 2020	Dummy node created for missing outlet for WWSMP 2020	City GIS received on May 29, 2020	Computed length	2013 DC Study Model	2013 DC Study Model	Computed slope
	8039 City GIS received on May 29, 2020	City GIS received on May 29, 2020	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed length	2013 DC Study Model	2013 DC Study Model	Computed slope
	8040 City GIS received on May 29, 2020	City GIS received on May 29, 2020	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed length	2013 DC Study Model	2013 DC Study Model	Computed slope
	8041 City GIS received on May 29, 2020	City GIS received on May 29, 2020	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed length	2013 DC Study Model	2013 DC Study Model	Computed slope
	8042 City CIS received on May 20, 2020	City CIE received on May 20, 2020	City CIS received on May 20, 2020	City CIE received on May 20, 2020		2012 DC Study Model	2012 DC Study Model	
		Dury GIS received on May 29, 2020		City CIO received on May 29, 2020				
	8060 City GIS received on May 29, 2020	Dummy hode created for missing lifet for www.SiviP 2020	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed length	2013 DC Study Model	City GIS received on May 29, 2020	Computed slope
	8076 City GIS received on May 29, 2020	City GIS received on May 29, 2020	Dummy node created for missing outlet for WWSMP 2020	City GIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed slope
	8078 City GIS received on May 29, 2020	City GIS received on May 29, 2020	Dummy node created for missing outlet for WWSMP 2020	City GIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed slope
	8080 City GIS received on May 29, 2020	Dummy node created for missing inlet for WWSMP 2020	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed length	2013 DC Study Model	City GIS received on May 29, 2020	Computed slope
	8104 City GIS received on May 29, 2020	City GIS received on May 29, 2020	Dummy node created for missing outlet for WWSMP 2020	City GIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed slope
	8106 City GIS received on May 29, 2020	Dummy node created for missing inlet for WWSMP 2020	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed slope
	8112 City CIS received on May 29, 2020	City CIS received on May 29, 2020	Dummy node created for missing outlet for WW/SMP 2020	City CIS received on May 29, 2020	Computed length	City CIS received on May 29, 2020	City CIS received on May 29, 2020	Computed slope
		Dury did teceived off May 23, 2020	Other Old received on Marcolo 2020			Oity CIO received on May 29, 2020	Oity Old received on May 29, 2020	
	8120 Uity GIS received on May 29, 2020	Durning hode created for missing inlet for WWSMP 2020	lotty GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed slope
	8132 City GIS received on May 29, 2020	City GIS received on May 29, 2020	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	Engineering judgment for WWSMP 2020	Computed slope
	8145 City GIS received on May 29, 2020	City GIS received on May 29, 2020	Corrected and filled missing outlet ID for WWSMP 2020	City GIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed slope
	8152 City GIS received on May 29, 2020	Dummy node created for missing inlet for WWSMP 2020	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed length	Engineering judgment for WWSMP 2020	City GIS received on May 29, 2020	Computed slope
	8153 City GIS received on May 29. 2020	Dummy node created for missing inlet for WWSMP 2020	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed length	Engineering judgment for WWSMP 2020	Engineering judgment for WWSMP 2020	Computed slope
	8154 City GIS received on May 29, 2020	Dummy node created for missing inlet for WWSMP 2020	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed length	Engineering judgment for WWSMP 2020	City GIS received on May 29, 2020	Computed slope
	8174 City CIS received on May 20, 2020	Dummy node created for missing inlet for WW/SMD 2020	Dummy node created for missing outlet for W/W/SMD 2020	City GIS received on May 20, 2020	Computed longth	City GIS received on May 20, 2020	City GIS received on May 20, 2020	Computed clope
					Computed length			
	8175 City GIS received on May 29, 2020	Dummy node created for missing inlet for WWSMP 2020	Ulty GIS received on May 29, 2020	Uity GIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed slope
	8222 City GIS received on May 29, 2020	Corrected and filled missing inlet ID for WWSMP 2020	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed slope
	8223 City GIS received on May 29, 2020	Dummy node created for missing inlet for WWSMP 2020	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed slope
	8231 City GIS received on May 29, 2020	City GIS received on May 29, 2020	Corrected and filled missing outlet ID for WWSMP 2020	City GIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed slope
	8234 City GIS received on May 29, 2020	City GIS received on May 29, 2020	Corrected and filled missing outlet ID for WWSMP 2020	City GIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed slope
	0225 City CIC received on May 29, 2020	City CIP received on May 20, 2020		City CIC received on May 20, 2020	Computed length	City CIS received on May 20, 2020	City CIS received on May 20, 2020	Computed date
			Dummy node created for missing outlet for WWSMP 2020	City GIS received on May 29, 2020		City GIS received on May 29, 2020	City GIS received on May 29, 2020	
	8242 City GIS received on May 29, 2020	Dummy node created for missing inlet for WWSMP 2020	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed slope
	8264 City GIS received on May 29, 2020	Dummy node created for missing inlet for WWSMP 2020	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed slope
	8276 City GIS received on May 29, 2020	City GIS received on May 29, 2020	Dummy node created for missing outlet for WWSMP 2020	City GIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed slope
	8277 City GIS received on May 29. 2020	Dummy node created for missing inlet for WWSMP 2020	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed slope
	8281 City GIS received on May 29, 2020	Dummy node created for missing inlet for WWSMP 2020	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed slope
	8282 City GIS received on May 20, 2020	Dummy node created for missing inlet for WW/SMD 2020	City GIS received on May 29, 2020	City GIS received on May 20, 2020	Computed length	City GIS received on May 20, 2020	City GIS received on May 20, 2020	Computed slope
			City CIE received on May 20, 2020	City CIC received on May 20, 2020		City CIS received on May 20, 2020	Engineering judgment for MUMONID 0000	
	8287 Uity GIS received on May 29, 2020	Ully GIS received on May 29, 2020	Ulty GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed length	Uty GIS received on May 29, 2020	Engineering judgment for WWSMP 2020	Computed slope
	8293 City GIS received on May 29, 2020	Dummy node created for missing inlet for WWSMP 2020	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed slope
	8303 City GIS received on May 29, 2020	City GIS received on May 29, 2020	Dummy node created for missing outlet for WWSMP 2020	City GIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed slope
	8305 City GIS received on May 29, 2020	Dummy node created for missing inlet for WWSMP 2020	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed slope
	8311 City GIS received on May 29. 2020	City GIS received on May 29, 2020	Dummy node created for missing outlet for WWSMP 2020	City GIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed slope
	8316 City GIS received on May 29, 2020	City GIS received on May 29, 2020	Dummy node created for missing outlet for WWSMP 2020	City GIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed slope
	8317 City GIS received on May 20, 2020	Dummy node created for missing inlet for WWSMP 2020	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	City GIS received on May 20, 2020	Computed slope
	8220 City CIC received on May 29, 2020	Dummy node created for missing inlet for WWOMD 2020	City CIS received on May 20, 2020	City CIS received on May 20, 2020	Computed longth	City CIS received on May 20, 2020	City GIS received on May 20, 2020	Computed alars
	8323 UITY GIS received on May 29, 2020	Ully GIS received on May 29, 2020	Duminy node created for missing outlet for WWSMP 2020	Ully GIS received on May 29, 2020	Computed length	Uity GIS received on May 29, 2020	Uity GIS received on May 29, 2020	Computed slope

				DIAMETER SOURCE	LENGTH SOURCE	UPINVERT SOURCE	DOWNINVERT SOURCE	
8324	City GIS received on May 29, 2020	Dummy node created for missing inlet for WWSMP 2020	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed slope
8325	City GIS received on May 29, 2020	Dummy node created for missing inlet for WWSMP 2020	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed slope
8326	City GIS received on May 29, 2020	Dummy node created for missing inlet for WWSMP 2020	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed slope
8331	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Corrected and filled missing outlet ID for WWSMP 2020	City GIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	2013 DC Study Model	Computed slope
8334	City GIS received on May 29, 2020	City GIS received on May 29, 2020	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed length	Engineering judgment for WWSMP 2020	2013 DC Study Model	Computed slope
8343	City GIS received on May 29, 2020	Dummy node created for missing inlet for WWSMP 2020	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed slope
8361	City GIS received on May 29, 2020	Dummy node created for missing inlet for WWSMP 2020	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed slope
8367	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Dummy node created for missing outlet for WWSMP 2020	City GIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed slope
8372	City GIS received on May 29, 2020	Dummy node created for missing inlet for WWSMP 2020	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed slope
8373	City GIS received on May 29, 2020	Corrected and filled missing inlet ID for WWSMP 2020	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed slope
8376	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Dummy node created for missing outlet for WWSMP 2020	City GIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed slope
8377	City GIS received on May 29, 2020	Dummy node created for missing inlet for WWSMP 2020	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed slope
8386	City GIS received on May 29, 2020	Dummy node created for missing inlet for WWSMP 2020	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed slope
8398	City GIS received on May 29, 2020	Dummy node created for missing inlet for WWSMP 2020	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed slope
8403	City GIS received on May 29, 2020	Dummy node created for missing inlet for WWSMP 2020	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed slope
8410	City GIS received on May 29, 2020	Dummy node created for missing inlet for WWSMP 2020	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed slope
8411	City GIS received on May 29, 2020	Dummy node created for missing inlet for WWSMP 2020	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed length	Engineering judgment for WWSMP 2020	Engineering judgment for WWSMP 2020	Computed slope
8422	City GIS received on May 29, 2020	Dummy node created for missing inlet for WWSMP 2020	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed slope
8432	City GIS received on May 29, 2020	City GIS received on May 29, 2020	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed length	Engineering judgment for WWSMP 2020	Engineering judgment for WWSMP 2020	Computed slope
8433	City GIS received on May 29, 2020	Dummy node created for missing inlet for WWSMP 2020	Corrected and filled missing outlet ID for WWSMP 2020	City GIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed slope
8436	City GIS received on May 29, 2020	Dummy node created for missing inlet for WWSMP 2020	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed length	2013 DC Study Model	City GIS received on May 29, 2020	
8430	City CIS received on May 29, 2020	City CIS received on May 20, 2020	Corrected and filled missing outlet ID for WWSMP 2020	City CIS received on May 29, 2020	Computed length	City CIS received on May 20, 2020	City GIS received on May 29, 2020	
8438	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Corrected and filled missing outlet ID for WWSMP 2020	City CIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed slope
8439	City GIS received on May 29, 2020	Corrected and filled missing inlet ID for WWSMP 2020	Corrected and filled missing outlet ID for WWSMP 2020	City GIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed slope
8440	City GIS received on May 29, 2020	Corrected and filled missing inlet ID for WWSMP 2020		City GIS received on May 29, 2020		City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed slope
8441	City GIS received on May 29, 2020	Dummy node created for missing inlet for WWSMP 2020	Corrected and filled missing outlet ID for WWSMP 2020	City GIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed slope
8442	City GIS received on May 29, 2020	Corrected and filled missing inlet ID for WWSMP 2020	Corrected and filled missing outlet ID for WWSMP 2020	City GIS received on May 29, 2020	Computed length	Gity GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed slope
8443	City GIS received on May 29, 2020	Corrected and filled missing inlet ID for WWSMP 2020	Corrected and filled missing outlet ID for WWSMP 2020	City GIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed slope
8444	City GIS received on May 29, 2020	Corrected and filled missing inlet ID for WWSMP 2020	Corrected and filled missing outlet ID for WWSMP 2020	City GIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed slope
8445	City GIS received on May 29, 2020	Corrected and filled missing inlet ID for WWSMP 2020	Corrected and filled missing outlet ID for WWSMP 2020	City GIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed slope
8446	City GIS received on May 29, 2020	Corrected and filled missing inlet ID for WWSMP 2020	Corrected and filled missing outlet ID for WWSMP 2020	City GIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed slope
8447	City GIS received on May 29, 2020	Corrected and filled missing inlet ID for WWSMP 2020	Corrected and filled missing outlet ID for WWSMP 2020	City GIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed slope
8448	City GIS received on May 29, 2020	Corrected and filled missing inlet ID for WWSMP 2020	Corrected and filled missing outlet ID for WWSMP 2020	City GIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed slope
8449	City GIS received on May 29, 2020	Corrected and filled missing inlet ID for WWSMP 2020	Corrected and filled missing outlet ID for WWSMP 2020	City GIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed slope
8450	City GIS received on May 29, 2020	Corrected and filled missing inlet ID for WWSMP 2020	Corrected and filled missing outlet ID for WWSMP 2020	City GIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed slope
8451	City GIS received on May 29, 2020	Corrected and filled missing inlet ID for WWSMP 2020	Corrected and filled missing outlet ID for WWSMP 2020	City GIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed slope
8452	City GIS received on May 29, 2020	Corrected and filled missing inlet ID for WWSMP 2020	Corrected and filled missing outlet ID for WWSMP 2020	City GIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed slope
8453	City GIS received on May 29, 2020	Corrected and filled missing inlet ID for WWSMP 2020	Corrected and filled missing outlet ID for WWSMP 2020	City GIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed slope
8454	City GIS received on May 29, 2020	Corrected and filled missing inlet ID for WWSMP 2020	Corrected and filled missing outlet ID for WWSMP 2020	City GIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed slope
8455	City GIS received on May 29, 2020	Corrected and filled missing inlet ID for WWSMP 2020	Corrected and filled missing outlet ID for WWSMP 2020	City GIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed slope
8456	City GIS received on May 29, 2020	Corrected and filled missing inlet ID for WWSMP 2020	Corrected and filled missing outlet ID for WWSMP 2020	City GIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed slope
8457	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Corrected and filled missing outlet ID for WWSMP 2020	City GIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed slope
8458	City GIS received on May 29, 2020	Dummy node created for missing inlet for WWSMP 2020	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed slope
8459	City GIS received on May 29, 2020	Corrected and filled missing inlet ID for WWSMP 2020	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed slope
8460	City GIS received on May 29, 2020	Corrected and filled missing inlet ID for WWSMP 2020	Corrected and filled missing outlet ID for WWSMP 2020	City GIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed slope
8461	City GIS received on May 29, 2020	Dummy node created for missing inlet for WWSMP 2020	Corrected and filled missing outlet ID for WWSMP 2020	City GIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed slope
8462	City GIS received on May 29, 2020	Corrected and filled missing inlet ID for WWSMP 2020	Corrected and filled missing outlet ID for WWSMP 2020	City GIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed slope
8463	City GIS received on May 29, 2020	Corrected and filled missing inlet ID for WWSMP 2020	Corrected and filled missing outlet ID for WWSMP 2020	City GIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed slope
8463	City CIS received on May 29, 2020	Corrected and filled missing inlet ID for WWSMP 2020	Corrected and filled missing outlet ID for WWSMP 2020	City CIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	City GIS received on May 29, 2020	
8465	City CIS received on May 29, 2020	Dummy node created for missing inlet for W/W/SMP 2020	Corrected and filled missing outlet ID for WWSMP 2020	City CIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	City GIS received on May 29, 2020	
8465	City GIS received on May 29, 2020	Corrected and filled missing inlet ID for WWSMP 2020	Corrected and filled missing outlet ID for WWSMP 2020	City CIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	City GIS received on May 29, 2020	
8400	City CIS received on May 29, 2020	Corrected and filled fillssing inlet for WWSMP 2020	Corrected and filled missing outlet ID for WWSMP 2020	City CIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed slope
8467	City GIS received on May 29, 2020	Dummy hode created for missing inlet for WWSMP 2020	Corrected and filled missing outlet ID for WWSMP 2020	City GIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed slope
8468	City GIS received on May 29, 2020	Corrected and filled missing inlet ID for WWSMP 2020	Corrected and filled missing outlet ID for WWSMP 2020	City GIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed slope
8469	City GIS received on May 29, 2020	Durnmy node created for missing inlet for WWSMP 2020	Corrected and filled missing outlet ID for WWSMP 2020	City GIS received on May 29, 2020	Computed length	Uly GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed slope
8470	City GIS received on May 29, 2020	Corrected and filled missing inlet ID for WWSMP 2020	Durmmy node created for missing outlet for WWSMP 2020	Oity GIS received on May 29, 2020	Computed length	2013 DC Study Model	2013 DC Study Model	Computed slope
8471	City GIS received on May 29, 2020	Corrected and filled missing inlet ID for WWSMP 2020	Corrected and filled establish outlet ID for WWSMP 2020	Oity GIS received on May 29, 2020				Computed slope
84/2	City GIS received on May 29, 2020	Corrected and filled missing inlet ID for WWSMP 2020	Corrected and filled missing outlet ID for WWSMP 2020	City GIS received on May 29, 2020	Computed length	2013 DC Study Model	2013 DC Study Model	Computed slope
8473	City GIS received on May 29, 2020	Corrected and filled missing inlet ID for WWSMP 2020	Corrected and filled missing outlet ID for WWSMP 2020	City GIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed slope
8474	City GIS received on May 29, 2020	Corrected and filled missing inlet ID for WWSMP 2020	Corrected and filled missing outlet ID for WWSMP 2020	City GIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed slope
8475	City GIS received on May 29, 2020	Corrected and filled missing inlet ID for WWSMP 2020	Corrected and filled missing outlet ID for WWSMP 2020	City GIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed slope
8476	City GIS received on May 29, 2020	Corrected and filled missing inlet ID for WWSMP 2020	Corrected and filled missing outlet ID for WWSMP 2020	City GIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	Engineering judgment for WWSMP 2020	Computed slope
8477	City GIS received on May 29, 2020	Corrected and filled missing inlet ID for WWSMP 2020	Corrected and filled missing outlet ID for WWSMP 2020	City GIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed slope
8478	City GIS received on May 29, 2020	Corrected and filled missing inlet ID for WWSMP 2020	Corrected and filled missing outlet ID for WWSMP 2020	City GIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed slope
8479	City GIS received on May 29, 2020	Corrected and filled missing inlet ID for WWSMP 2020	Corrected and filled missing outlet ID for WWSMP 2020	City GIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed slope
8480	City GIS received on May 29, 2020	Dummy node created for missing inlet for WWSMP 2020	Corrected and filled missing outlet ID for WWSMP 2020	City GIS received on May 29, 2020	Computed length	Engineering judgment for WWSMP 2020	City GIS received on May 29, 2020	Computed slope
8482	City GIS received on May 29, 2020	Corrected and filled missing inlet ID for WWSMP 2020	Corrected and filled missing outlet ID for WWSMP 2020	City GIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed slope
8483	City GIS received on May 29, 2020	Corrected and filled missing inlet ID for WWSMP 2020	Corrected and filled missing outlet ID for WWSMP 2020	City GIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed slope
8484	City GIS received on May 29, 2020	Corrected and filled missing inlet ID for WWSMP 2020	Corrected and filled missing outlet ID for WWSMP 2020	City GIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed slope
8485	City GIS received on May 29, 2020	Corrected and filled missing inlet ID for WWSMP 2020	Corrected and filled missing outlet ID for WWSMP 2020	City GIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed slope
8486	City GIS received on May 29, 2020	Corrected and filled missing inlet ID for WWSMP 2020	Corrected and filled missing outlet ID for WWSMP 2020	City GIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed slope
8487	City GIS received on May 29. 2020	Corrected and filled missing inlet ID for WWSMP 2020	Corrected and filled missing outlet ID for WWSMP 2020	City GIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed slope
8488	City GIS received on May 29, 2020	Dummy node created for missing inlet for WWSMP 2020	Corrected and filled missing outlet ID for WWSMP 2020	City GIS received on May 29. 2020	Computed length	City GIS received on May 29. 2020	City GIS received on May 29. 2020	Computed slope
8489	City GIS received on May 29, 2020	Corrected and filled missing inlet ID for WWSMP 2020	Corrected and filled missing outlet ID for WWSMP 2020	City GIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed slope
8400	City GIS received on May 29, 2020	Corrected and filled missing inlet ID for WWSMP 2020	Corrected and filled missing outlet ID for WWSMP 2020	City GIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed slope
۵490 ۶/۱۵1	City GIS received on May 29, 2020	Corrected and filled missing inlet ID for WWSMP 2020	Corrected and filled missing outlet ID for WWSMP 2020	City GIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed slope
2403 20103	City GIS received on May 29, 2020	Corrected and filled missing inlet ID for WWSMP 2020	Corrected and filled missing outlet ID for WWSMP 2020	City GIS received on May 29, 2020		City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed slope
2667-0 2004	City GIS received on May 29, 2020	Corrected and filled missing inlet ID for WWSMP 2020	Corrected and filled missing outlet ID for WWSMP 2020	City GIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed slope
0494	City GIS received on May 20, 2020	City GIS received on May 20, 2020	Corrected and filled missing outlet ID for WWSMP 2020	City GIS received on May 20, 2020	Computed longth	City GIS received on May 20, 2020	City GIS received on May 20, 2020	
0495	Jony alo received ult ividy 23, 2020	Only CIC 10001000 UT Way 23, 2020	Conserved and miled missing outlet ID TOL WW SIVIE 2020	Unity and received on May 23, 2020		0117 010 10001100 011 11/1ay 23, 2020	1011 101 100 100 100 101 101 101 23, 2020	Computed slope

	ID SOURCE	INLET ID SOURCE	OUTLET ID SOURCE	DIAMETER SOURCE	LENGTH SOURCE	UPINVERT SOURCE	DOWNINVERT SOURCE	SLOPE SOURCE
8496	6 City GIS received on May 29, 2020	Corrected and filled missing inlet ID for WWSMP 2020	Corrected and filled missing outlet ID for WWSMP 2020	City GIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed slope
849	7 City GIS received on May 29, 2020	Corrected and filled missing inlet ID for WWSMP 2020	Corrected and filled missing outlet ID for WWSMP 2020	City GIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed slope
8498	8 City GIS received on May 29, 2020	Corrected and filled missing inlet ID for WWSMP 2020	Corrected and filled missing outlet ID for WWSMP 2020	City GIS received on May 29, 2020		City GIS received on May 29, 2020	City CIS received on May 29, 2020	Computed slope
8490	City CIS received on May 29, 2020	Corrected and filled missing inlet ID for WWSMP 2020	Corrected and filled missing outlet ID for WWSMP 2020	City GIS received on May 29, 2020	Computed length	City CIS received on May 29, 2020	City CIS received on May 29, 2020	Computed slope
950	City CIS received on May 29, 2020	Corrected and filled missing inlet ID for WWSMF 2020	Corrected and filled missing outlet ID for WWSMI 2020	City CIS received on May 29, 2020	Computed length	City CIS received on May 29, 2020	City CIS received on May 29, 2020	
8500	1 City CIS received on May 29, 2020	Corrected and filled missing inlet ID for WWSMP 2020	Corrected and filled missing outlet ID for WWSMP 2020	City CIS received on May 29, 2020		City CIS received on May 29, 2020	City CIS received on May 29, 2020	
850	City CIS received on May 29, 2020	Corrected and filled missing inlet ID for WWSMP 2020	Corrected and filled missing outlet ID for WWSMP 2020	City CIS received on May 29, 2020		City CIS received on May 29, 2020	City GIS received on May 29, 2020	
8502	2 City GIS received on May 29, 2020	Corrected and filled missing inlet ID for WWSMP 2020	Corrected and filled missing outlet ID for WWSMP 2020	City GIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed slope
8500	3 City GIS received on May 29, 2020	Corrected and filled missing inlet ID for WWSMP 2020	Corrected and filled missing outlet ID for WWSMP 2020	City GIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed slope
8504	4 City GIS received on May 29, 2020	Dummy node created for missing inlet for WWSMP 2020	Corrected and filled missing outlet ID for WWSMP 2020	City GIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed slope
8505	5 City GIS received on May 29, 2020	Corrected and filled missing inlet ID for WWSMP 2020	Corrected and filled missing outlet ID for WWSMP 2020	City GIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed slope
8506	6 City GIS received on May 29, 2020	Corrected and filled missing inlet ID for WWSMP 2020	Corrected and filled missing outlet ID for WWSMP 2020	City GIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed slope
8507	7 City GIS received on May 29, 2020	Corrected and filled missing inlet ID for WWSMP 2020	Corrected and filled missing outlet ID for WWSMP 2020	City GIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed slope
8508	8 City GIS received on May 29, 2020	Corrected and filled missing inlet ID for WWSMP 2020	Corrected and filled missing outlet ID for WWSMP 2020	City GIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed slope
8509	9 City GIS received on May 29, 2020	Corrected and filled missing inlet ID for WWSMP 2020	Corrected and filled missing outlet ID for WWSMP 2020	City GIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed slope
8510	0 City GIS received on May 29, 2020	Corrected and filled missing inlet ID for WWSMP 2020	Corrected and filled missing outlet ID for WWSMP 2020	City GIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed slope
851	1 City GIS received on May 29, 2020	Corrected and filled missing inlet ID for WWSMP 2020	Corrected and filled missing outlet ID for WWSMP 2020	City GIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed slope
8512	2 City GIS received on May 29, 2020	Corrected and filled missing inlet ID for WWSMP 2020	Corrected and filled missing outlet ID for WWSMP 2020	City GIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed slope
8513	3 City GIS received on May 29, 2020	Corrected and filled missing inlet ID for WWSMP 2020	Corrected and filled missing outlet ID for WWSMP 2020	City GIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed slope
8514	4 City GIS received on May 29, 2020	Corrected and filled missing inlet ID for WWSMP 2020	Corrected and filled missing outlet ID for WWSMP 2020	City GIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed slope
8515	5 City GIS received on May 29, 2020	Corrected and filled missing inlet ID for WWSMP 2020	Corrected and filled missing outlet ID for WWSMP 2020	City GIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed slope
8516	6 City GIS received on May 29, 2020	Corrected and filled missing inlet ID for WWSMP 2020	Corrected and filled missing outlet ID for WWSMP 2020	City GIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed slope
8517	7 City GIS received on May 29, 2020	Corrected and filled missing inlet ID for WWSMP 2020	Corrected and filled missing outlet ID for WWSMP 2020	City GIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed slope
8518	8 City GIS received on May 29, 2020	Corrected and filled missing inlet ID for WWSMP 2020	Corrected and filled missing outlet ID for WWSMP 2020	City GIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed slope
8519	9 City GIS received on May 29, 2020	Corrected and filled missing inlet ID for WWSMP 2020	Corrected and filled missing outlet ID for WWSMP 2020	City GIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed slope
8520	0 City GIS received on May 29, 2020	Corrected and filled missing inlet ID for WWSMP 2020	Corrected and filled missing outlet ID for WWSMP 2020	City GIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed slope
852	1 City GIS received on May 29, 2020	Corrected and filled missing inlet ID for WWSMP 2020	Corrected and filled missing outlet ID for WWSMP 2020	City GIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed slope
8522	2 City GIS received on May 29, 2020	Corrected and filled missing inlet ID for WWSMP 2020	Corrected and filled missing outlet ID for WWSMP 2020	City GIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed slope
852	3 City GIS received on May 29, 2020	Corrected and filled missing inlet ID for WWSMP 2020	Corrected and filled missing outlet ID for WWSMP 2020	City GIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed slope
8526	6 City GIS received on May 29, 2020	Corrected and filled missing inlet ID for WWSMP 2020	Corrected and filled missing outlet ID for WWSMP 2020	City GIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	City CIS received on May 29, 2020	Computed slope
852	7 City GIS received on May 29, 2020	Dummy node created for missing inlet for WWSMP 2020	Corrected and filled missing outlet ID for WWSMP 2020	City GIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	City CIS received on May 29, 2020	Computed slope
852	City CIS received on May 29, 2020	Dummy node created for missing inlet for WWSMP 2020	Corrected and filled missing outlet ID for WWSMR 2020	City CIS received on May 29, 2020		City CIS received on May 29, 2020	City CIS received on May 29, 2020	
8520	City CIS received on May 29, 2020	Corrected and filled missing inlet ID for MM/SMP 2020	Corrected and filled missing outlet ID for WWSMP 2020	City CIS received on May 29, 2020	Computed length	City CIS received on May 29, 2020	City GIS received on May 29, 2020	
852	Gity GIS received on May 29, 2020	Corrected and filled missing inlet ID for WWSMP 2020	Corrected and filled missing outlet ID for WWSMP 2020	City GIS received on May 29, 2020	Computed length	City CIS received on May 29, 2020	City CIS received on May 29, 2020	Computed slope
8530	t City CIS received on May 29, 2020	Corrected and filled missing inlet ID for WWSMP 2020	Corrected and filled missing outlet for WWSMP 2020	City GIS received on May 29, 2020	Computed length	City CIS received on May 29, 2020	City CIS received on May 29, 2020	
853	City GIS received on May 29, 2020	Corrected and filled missing inlet ID for WWSMP 2020	Dummy hode created for missing outlet for WWSMP 2020	City GIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed slope
8532	2 City GIS received on May 29, 2020	Dummy node created for missing inlet for WWSMP 2020	Corrected and filled missing outlet ID for WWSMP 2020	City GIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed slope
8533	3 City GIS received on May 29, 2020	Corrected and filled missing inlet ID for WWSMP 2020	Corrected and filled missing outlet ID for WWSMP 2020	City GIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed slope
8534	4 City GIS received on May 29, 2020	Corrected and filled missing inlet ID for WWSMP 2020	Corrected and filled missing outlet ID for WWSMP 2020	City GIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed slope
853	5 City GIS received on May 29, 2020	Dummy node created for missing inlet for WWSMP 2020	Corrected and filled missing outlet ID for WWSMP 2020	City GIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed slope
8536	6 City GIS received on May 29, 2020	Dummy node created for missing inlet for WWSMP 2020	Corrected and filled missing outlet ID for WWSMP 2020	City GIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed slope
853	7 City GIS received on May 29, 2020	Dummy node created for missing inlet for WWSMP 2020	Corrected and filled missing outlet ID for WWSMP 2020	City GIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed slope
8538	8 City GIS received on May 29, 2020	Corrected and filled missing inlet ID for WWSMP 2020	Corrected and filled missing outlet ID for WWSMP 2020	City GIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed slope
8539	9 City GIS received on May 29, 2020	Dummy node created for missing inlet for WWSMP 2020	Corrected and filled missing outlet ID for WWSMP 2020	City GIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed slope
8540	0 City GIS received on May 29, 2020	Corrected and filled missing inlet ID for WWSMP 2020	Corrected and filled missing outlet ID for WWSMP 2020	City GIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed slope
854	1 City GIS received on May 29, 2020	Corrected and filled missing inlet ID for WWSMP 2020	Corrected and filled missing outlet ID for WWSMP 2020	City GIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed slope
8542	2 City GIS received on May 29, 2020	Dummy node created for missing inlet for WWSMP 2020	Corrected and filled missing outlet ID for WWSMP 2020	City GIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed slope
8543	3 City GIS received on May 29, 2020	Corrected and filled missing inlet ID for WWSMP 2020	Corrected and filled missing outlet ID for WWSMP 2020	City GIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed slope
8544	4 City GIS received on May 29, 2020	Corrected and filled missing inlet ID for WWSMP 2020	Corrected and filled missing outlet ID for WWSMP 2020	City GIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed slope
8545	5 City GIS received on May 29, 2020	Corrected and filled missing inlet ID for WWSMP 2020	Corrected and filled missing outlet ID for WWSMP 2020	City GIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed slope
8546	6 City GIS received on May 29, 2020	Corrected and filled missing inlet ID for WWSMP 2020	Corrected and filled missing outlet ID for WWSMP 2020	City GIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed slope
8547	7 City GIS received on May 29, 2020	Corrected and filled missing inlet ID for WWSMP 2020	Corrected and filled missing outlet ID for WWSMP 2020	City GIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed slope
8548	8 City GIS received on May 29, 2020	Corrected and filled missing inlet ID for WWSMP 2020	Corrected and filled missing outlet ID for WWSMP 2020	City GIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed slope
8549	9 City GIS received on May 29, 2020	Corrected and filled missing inlet ID for WWSMP 2020	Corrected and filled missing outlet ID for WWSMP 2020	City GIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed slope
8550	0 City GIS received on May 29, 2020	Corrected and filled missing inlet ID for WWSMP 2020	Corrected and filled missing outlet ID for WWSMP 2020	City GIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed slope
855	1 City GIS received on May 29. 2020	Corrected and filled missing inlet ID for WWSMP 2020	Corrected and filled missing outlet ID for WWSMP 2020	City GIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed slope
8552	2 City GIS received on May 29, 2020	Dummy node created for missing inlet for WWSMP 2020	Corrected and filled missing outlet ID for WWSMP 2020	City GIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed slope
855	3 City GIS received on May 29, 2020	Corrected and filled missing inlet ID for WWSMP 2020	Corrected and filled missing outlet ID for WWSMP 2020	City GIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed slope
8554	4 City GIS received on May 29, 2020	Corrected and filled missing inlet ID for WWSMP 2020	Corrected and filled missing outlet ID for WWSMP 2020	City GIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed slope
855	5 City GIS received on May 29, 2020	Corrected and filled missing inlet ID for WWSMP 2020	Corrected and filled missing outlet ID for WWSMP 2020	City GIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed slope
855	6 City GIS received on May 29, 2020	Corrected and filled missing inlet ID for WWSMP 2020	Corrected and filled missing outlet ID for WWSMP 2020	City GIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed slope
855	7 City GIS received on May 29, 2020	Corrected and filled missing inlet ID for WWSMP 2020	Corrected and filled missing outlet ID for WWSMP 2020	City GIS received on May 29, 2020	Computed length	City CIS received on May 29, 2020	City CIS received on May 29, 2020	Computed slope
855	City CIS received on May 29, 2020	Corrected and filled missing inlet ID for WWSMP 2020	Corrected and filled missing outlet ID for WWSMP 2020	City CIS received on May 29, 2020	Computed length	City CIS received on May 29, 2020	City GIS received on May 29, 2020	
9550	City CIS received on May 29, 2020	Corrected and filled missing inlet ID for WWSMP 2020	Corrected and filled missing outlet ID for WWSMP 2020	City GIS received on May 29, 2020	Computed length	City CIS received on May 29, 2020	City CIS received on May 29, 2020	
8555	City CIS received on May 29, 2020	Corrected and filled missing inlet ID for WWSMF 2020	Corrected and filled missing outlet ID for WWSMP 2020	City CIS received on May 29, 2020	Computed length	City CIS received on May 29, 2020	City CIS received on May 29, 2020	Computed slope
8500	1 City CIS received on May 29, 2020	Dummy node created for missing inlet for WWSMP 2020	Corrected and filled missing outlet ID for WWSMP 2020	City CIS received on May 29, 2020	Computed length	City CIS received on May 29, 2020	City CIS received on May 29, 2020	Computed slope
856	City CIS received on May 29, 2020	Corrected and filled missing inlet ID for WWSMP 2020	Connected and filled missing outlet ID for WWSMP 2020	City CIS received on May 29, 2020		City CIS received on May 29, 2020	City CIS received on May 29, 2020	
8562	2 City CIS received on May 29, 2020	Corrected and filled missing inlet ID for WWSMP 2020	Connected and filled missing outlet ID for WWSMP 2020	City CIS received on May 29, 2020		City CIS received on May 29, 2020	City CIS received on May 29, 2020	
8563		Corrected and fills dissing inlet ID for WWSMP 2020	Connected and filled missing outlet ID for WWSMP 2020	City CID received on May 29, 2020		City CID received on May 29, 2020	City CIS received on May 29, 2020	
8564	4 Uity GIS received on May 29, 2020	Corrected and filled missing inlet ID for WWSMP 2020	Corrected and filled missing outlet ID for WWSMP 2020	City GIS received on May 29, 2020		City GIS received on May 29, 2020	Oity GIS received on May 29, 2020	Computed slope
856	blotty GIS received on May 29, 2020	Corrected and filled missing inlet ID for WWSMP 2020	Corrected and filled missing outlet ID for WWSMP 2020	City GIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	Uity GIS received on May 29, 2020	Computed slope
8566	6 City GIS received on May 29, 2020	Corrected and filled missing inlet ID for WWSMP 2020	Corrected and filled missing outlet ID for WWSMP 2020	City GIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed slope
8567	/ City GIS received on May 29, 2020	Corrected and filled missing inlet ID for WWSMP 2020	Corrected and filled missing outlet ID for WWSMP 2020	City GIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed slope
8568	8 City GIS received on May 29, 2020	Corrected and filled missing inlet ID for WWSMP 2020	Corrected and filled missing outlet ID for WWSMP 2020	City GIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed slope
8569	9 City GIS received on May 29, 2020	Corrected and filled missing inlet ID for WWSMP 2020	Corrected and filled missing outlet ID for WWSMP 2020	City GIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed slope
8570	0 City GIS received on May 29, 2020	Corrected and filled missing inlet ID for WWSMP 2020	Corrected and filled missing outlet ID for WWSMP 2020	City GIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed slope
857	1 City GIS received on May 29, 2020	Corrected and filled missing inlet ID for WWSMP 2020	Corrected and filled missing outlet ID for WWSMP 2020	City GIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed slope
8572	2 City GIS received on May 29, 2020	Corrected and filled missing inlet ID for WWSMP 2020	Corrected and filled missing outlet ID for WWSMP 2020	City GIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed slope
8573	3 City GIS received on May 29, 2020	Corrected and filled missing inlet ID for WWSMP 2020	Corrected and filled missing outlet ID for WWSMP 2020	City GIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed slope
8574	4 City GIS received on May 29, 2020	Corrected and filled missing inlet ID for WWSMP 2020	Corrected and filled missing outlet ID for WWSMP 2020	City GIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed slope

				DIAMETER SOURCE	LENGTH SOURCE		DOWNINVERT SOURCE	SLOPE SOURCE
	8575 City CIS received on May 29, 2020	Corrected and filled missing inlet ID for W/W/SMP 2020	Corrected and filled missing outlet ID for WWSMP 2020	City CIS received on May 29, 2020		City CIS received on May 29, 2020	City CIS received on May 29, 2020	
	8578 City GIS received on May 29, 2020	Corrected and filled missing inlet ID for WWSMP 2020	Corrected and filled missing outlet ID for WWSMP 2020	City GIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed slope
	8603 City GIS received on May 29, 2020	Corrected and filled missing inlet ID for WWSMP 2020	Corrected and filled missing outlet ID for WWSMP 2020	City GIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed slope
	8604 City GIS received on May 29, 2020	Corrected and filled missing inlet ID for WWSMP 2020	Corrected and filled missing outlet ID for WWSMP 2020	City GIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed slope
	8605 City GIS received on May 29, 2020	Corrected and filled missing inlet ID for WWSMP 2020	Corrected and filled missing outlet ID for WWSMP 2020	City GIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed slope
	8606 City GIS received on May 29, 2020	Corrected and filled missing inlet ID for WWSMP 2020	Corrected and filled missing outlet ID for WWSMP 2020	City GIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed slope
	8607 City GIS received on May 29, 2020	Corrected and filled missing inlet ID for WWSMP 2020	Corrected and filled missing outlet ID for WWSMP 2020	City GIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed slope
	8608 City GIS received on May 29, 2020	Corrected and filled missing inlet ID for WWSMP 2020	Corrected and filled missing outlet ID for WWSMP 2020	City GIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed slope
	8609 City GIS received on May 29, 2020	Corrected and filled missing inlet ID for WWSMP 2020	Corrected and filled missing outlet ID for WWSMP 2020	City GIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed slope
	8610 City GIS received on May 29, 2020	Corrected and filled missing inlet ID for WWSMP 2020	Corrected and filled missing outlet ID for WWSMP 2020	City GIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	City GIS received on May 29, 2020	
	8611 City CIS received on May 29, 2020	Corrected and filled missing inlet ID for WWSMP 2020	Corrected and filled missing outlet ID for WWSMP 2020	City GIS received on May 29, 2020	Computed length	City CIS received on May 29, 2020	City CIS received on May 29, 2020	
	8611 City CIS received on May 29, 2020	Corrected and filled missing inlet ID for WWSMP 2020	Corrected and filled missing outlet ID for WWSMP 2020	City CIS received on May 29, 2020	Computed length	City CIS received on May 29, 2020	City CIS received on May 29, 2020	
	8612 City GIS received on May 29, 2020			City GIS received on May 29, 2020			City GIS received on May 29, 2020	
	8613 City GIS received on May 29, 2020	Corrected and filled missing inlet ID for WWSMP 2020	Corrected and filled missing outlet ID for WWSMP 2020	City GIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed slope
	8618 City GIS received on May 29, 2020	Corrected and filled missing inlet ID for WWSMP 2020	Dummy node created for missing outlet for WWSMP 2020	City GIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed slope
	8619 City GIS received on May 29, 2020	Corrected and filled missing inlet ID for WWSMP 2020	Corrected and filled missing outlet ID for WWSMP 2020	City GIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed slope
	8620 City GIS received on May 29, 2020	Corrected and filled missing inlet ID for WWSMP 2020	Corrected and filled missing outlet ID for WWSMP 2020	City GIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed slope
	8621 City GIS received on May 29, 2020	Corrected and filled missing inlet ID for WWSMP 2020	Corrected and filled missing outlet ID for WWSMP 2020	City GIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed slope
	8622 City GIS received on May 29, 2020	Corrected and filled missing inlet ID for WWSMP 2020	Corrected and filled missing outlet ID for WWSMP 2020	City GIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed slope
	8623 City GIS received on May 29, 2020	Corrected and filled missing inlet ID for WWSMP 2020	Corrected and filled missing outlet ID for WWSMP 2020	City GIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed slope
	8624 City GIS received on May 29, 2020	Corrected and filled missing inlet ID for WWSMP 2020	Corrected and filled missing outlet ID for WWSMP 2020	City GIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed slope
	8625 City GIS received on May 29, 2020	Corrected and filled missing inlet ID for WWSMP 2020	Corrected and filled missing outlet ID for WWSMP 2020	City GIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed slope
	8626 City GIS received on May 29, 2020	Corrected and filled missing inlet ID for WWSMP 2020	Corrected and filled missing outlet ID for WWSMP 2020	City GIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed slope
	8627 City GIS received on May 29, 2020	Corrected and filled missing inlet ID for WWSMP 2020	Corrected and filled missing outlet ID for WWSMP 2020	City GIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed slope
	8628 City GIS received on May 29, 2020	Corrected and filled missing inlet ID for WWSMP 2020	Corrected and filled missing outlet ID for WWSMP 2020	City GIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed slope
	8629 City GIS received on May 29, 2020	Corrected and filled missing inlet ID for WWSMP 2020	Corrected and filled missing outlet ID for WWSMP 2020	City GIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	City GIS received on May 29, 2020	
	8630 City GIS received on May 29, 2020	Corrected and filled missing inlet ID for WWSMP 2020	Corrected and filled missing outlet ID for WWSMP 2020	City GIS received on May 20, 2020	Computed length	City GIS received on May 20, 2020	City GIS received on May 20, 2020	Computed slope
	8631 City CIS received on May 29, 2020	Corrected and filled missing inlet ID for M/W/SMP 2020	Corrected and filled missing outlet ID for W/W/SMP 2020	City GIS received on May 20, 2020		City GIS received on May 20, 2020	City GIS received on May 20, 2020	Computed slope
	8631 City GIS received off May 29, 2020	Corrected and filled missing inlet ID for WWSMP 2020	Confected and filled missing outlet ID for WWSIMP 2020	City GIS received on May 29, 2020		City CIS received on May 29, 2020	City GIS received on May 29, 2020	
	8632 City GIS received on May 29, 2020	Corrected and filled missing inlet ID for WWSMP 2020	Corrected and filled missing outlet ID for WWSMP 2020	City GIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed slope
	8633 City GIS received on May 29, 2020	Corrected and filled missing inlet ID for WWSMP 2020	Corrected and filled missing outlet ID for WWSMP 2020	City GIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed slope
	8634 City GIS received on May 29, 2020	Corrected and filled missing inlet ID for WWSMP 2020	Corrected and filled missing outlet ID for WWSMP 2020	City GIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed slope
	8635 City GIS received on May 29, 2020	Corrected and filled missing inlet ID for WWSMP 2020	Corrected and filled missing outlet ID for WWSMP 2020	City GIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed slope
	8636 City GIS received on May 29, 2020	Corrected and filled missing inlet ID for WWSMP 2020	Corrected and filled missing outlet ID for WWSMP 2020	City GIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed slope
	8637 City GIS received on May 29, 2020	Corrected and filled missing inlet ID for WWSMP 2020	Corrected and filled missing outlet ID for WWSMP 2020	City GIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed slope
	8638 City GIS received on May 29, 2020	Corrected and filled missing inlet ID for WWSMP 2020	Corrected and filled missing outlet ID for WWSMP 2020	City GIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed slope
	8639 City GIS received on May 29, 2020	Corrected and filled missing inlet ID for WWSMP 2020	Corrected and filled missing outlet ID for WWSMP 2020	City GIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed slope
	8640 City GIS received on May 29, 2020	Corrected and filled missing inlet ID for WWSMP 2020	Corrected and filled missing outlet ID for WWSMP 2020	City GIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed slope
	8641 City GIS received on May 29, 2020	Corrected and filled missing inlet ID for WWSMP 2020	Corrected and filled missing outlet ID for WWSMP 2020	City GIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed slope
	8642 City GIS received on May 29, 2020	Corrected and filled missing inlet ID for WWSMP 2020	Corrected and filled missing outlet ID for WWSMP 2020	City GIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed slope
	8643 City GIS received on May 29, 2020	Corrected and filled missing inlet ID for WWSMP 2020	Corrected and filled missing outlet ID for WWSMP 2020	City GIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed slope
	8644 City GIS received on May 29, 2020	Corrected and filled missing inlet ID for WWSMP 2020	Corrected and filled missing outlet ID for WWSMP 2020	City GIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed slope
	8645 City GIS received on May 29, 2020	Corrected and filled missing inlet ID for WWSMP 2020	Corrected and filled missing outlet ID for WWSMP 2020	City GIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed slope
	8646 City GIS received on May 29, 2020	Corrected and filled missing inlet ID for WWSMP 2020	Corrected and filled missing outlet ID for WWSMP 2020	City GIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed slope
	8647 City CIS received on May 29, 2020	Corrected and filled missing inlet ID for WWSMR 2020	Corrected and filled missing outlet ID for WWSMP 2020	City CIS received on May 29, 2020	Computed length	City CIS received on May 29, 2020	City CIS received on May 29, 2020	
		Corrected and filled missing inlet ID for WWSMP 2020	Corrected and filled missing outlet ID for WWSIMP 2020			City CIS received on May 29, 2020	City CIS received on May 29, 2020	
	8648 City GIS received off May 29, 2020	Corrected and filled missing inlet ID for WWSMP 2020	Corrected and filled missing outlet ID for WWSMP 2020	City GIS received on May 29, 2020		City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed slope
	8649 City GIS received on May 29, 2020	Corrected and filled missing inlet ID for WWSMP 2020	Corrected and filled missing outlet ID for WWSMP 2020	City GIS received on May 29, 2020		City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed slope
	8650 City GIS received on May 29, 2020	Corrected and filled missing inlet ID for WWSMP 2020	Corrected and filled missing outlet ID for WWSMP 2020	City GIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed slope
	8651 City GIS received on May 29, 2020	Corrected and filled missing inlet ID for WWSMP 2020	Corrected and filled missing outlet ID for WWSMP 2020	City GIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed slope
	8652 City GIS received on May 29, 2020	Corrected and filled missing inlet ID for WWSMP 2020	Corrected and filled missing outlet ID for WWSMP 2020	City GIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed slope
	8653 City GIS received on May 29, 2020	Corrected and filled missing inlet ID for WWSMP 2020	Corrected and filled missing outlet ID for WWSMP 2020	City GIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed slope
	8654 City GIS received on May 29, 2020	Corrected and filled missing inlet ID for WWSMP 2020	Corrected and filled missing outlet ID for WWSMP 2020	City GIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed slope
	8655 City GIS received on May 29, 2020	Corrected and filled missing inlet ID for WWSMP 2020	Corrected and filled missing outlet ID for WWSMP 2020	City GIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed slope
	8656 City GIS received on May 29, 2020	Corrected and filled missing inlet ID for WWSMP 2020	Corrected and filled missing outlet ID for WWSMP 2020	City GIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed slope
	8657 City GIS received on May 29, 2020	Corrected and filled missing inlet ID for WWSMP 2020	Corrected and filled missing outlet ID for WWSMP 2020	City GIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed slope
	8658 City GIS received on May 29, 2020	Corrected and filled missing inlet ID for WWSMP 2020	Corrected and filled missing outlet ID for WWSMP 2020	City GIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed slope
	8670 City GIS received on May 29, 2020	Dummy node created for missing inlet for WWSMP 2020	City GIS received on May 29, 2020	City GIS received on May 29. 2020	Computed length	City GIS received on May 29. 2020	City GIS received on May 29. 2020	Computed slope
	8672 City GIS received on May 29, 2020	Dummy node created for missing inlet for WWSMP 2020	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed slope
	8676 City GIS received on May 29, 2020	Corrected and filled missing inlet ID for WWSMP 2020	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed slope
	8677 City CIS received on May 29, 2020	Corrected and filled missing inlet ID for WWSMR 2020	Corrected and filled missing outlet ID for WWSMP 2020	City CIS received on May 29, 2020	Computed length	City CIS received on May 29, 2020	City CIS received on May 29, 2020	
	8677 City CIS received on May 29, 2020	City CIS received on May 29, 2020	Corrected and filled missing outlet ID for WWSIM 2020	City CIS received on May 29, 2020	Computed length	City CIS received on May 29, 2020	City CIS received on May 29, 2020	
	8678 City GIS received off May 29, 2020		Connected and filled missing outlet ID for WWSMP 2020	City GIS received on May 29, 2020		City CIS received on May 29, 2020	City GIS received on May 29, 2020	
	8679 City GIS received on May 29, 2020	Corrected and filled missing inlet ID for WWSMP 2020		City GIS received on May 29, 2020		City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed slope
	8680 City GIS received on May 29, 2020	Corrected and filled missing inlet ID for WWSMP 2020	Corrected and filled missing outlet ID for WWSMP 2020	City GIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed slope
	8681 City GIS received on May 29, 2020	Corrected and filled missing inlet ID for WWSMP 2020	Corrected and filled missing outlet ID for WWSMP 2020	City GIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed slope
	8682 City GIS received on May 29, 2020	Corrected and filled missing inlet ID for WWSMP 2020	Corrected and filled missing outlet ID for WWSMP 2020	City GIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed slope
	8683 City GIS received on May 29, 2020	Corrected and filled missing inlet ID for WWSMP 2020	Dummy node created for missing outlet for WWSMP 2020	City GIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed slope
	8684 City GIS received on May 29, 2020	Corrected and filled missing inlet ID for WWSMP 2020	Corrected and filled missing outlet ID for WWSMP 2020	City GIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed slope
	8685 City GIS received on May 29, 2020	Corrected and filled missing inlet ID for WWSMP 2020	Corrected and filled missing outlet ID for WWSMP 2020	City GIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed slope
	8686 City GIS received on May 29, 2020	Corrected and filled missing inlet ID for WWSMP 2020	Corrected and filled missing outlet ID for WWSMP 2020	City GIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed slope
	8687 City GIS received on May 29, 2020	Corrected and filled missing inlet ID for WWSMP 2020	Corrected and filled missing outlet ID for WWSMP 2020	City GIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed slope
	8688 City GIS received on May 29, 2020	Corrected and filled missing inlet ID for WWSMP 2020	Corrected and filled missing outlet ID for WWSMP 2020	City GIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed slope
	8689 City GIS received on May 29, 2020	Dummy node created for missing inlet for WWSMP 2020	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed slope
	8690 City GIS received on May 29, 2020	Corrected and filled missing inlet ID for WWSMP 2020	Corrected and filled missing outlet ID for WWSMP 2020	City GIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed slope
	8691 City GIS received on May 29. 2020	Corrected and filled missing inlet ID for WWSMP 2020	Corrected and filled missing outlet ID for WWSMP 2020	City GIS received on May 29. 2020	Computed length	City GIS received on May 29. 2020	City GIS received on May 29. 2020	Computed slope
	8692 City GIS received on May 29, 2020	Corrected and filled missing inlet ID for WWSMP 2020	Dummy node created for missing outlet for WWSMP 2020	City GIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed slope
	8693 City GIS received on May 29, 2020	Dummy node created for missing inlet for WWSMP 2020	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed slope
	8696 City GIS received on May 20, 2020	Dummy node created for missing inlet for WWSMP 2020	Corrected and filled missing outlet ID for WWSMP 2020	City GIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	Engineering judgment for W/WSMP 2020	Computed slope
	8698 City GIS received on May 29, 2020	Dummy node created for missing inlet for WWSIM 2020	Corrected and filled missing outlet ID for WWSMP 2020	City GIS received on May 20, 2020	Computed length	City GIS received on May 20, 2020	City GIS received on May 20, 2020	Computed slope
	8600 City CIS received on May 29, 2020	Corrected and filled missing inlet ID for M/WOMP 2020	Corrected and filled missing outlet ID for WWONE 2020	City GIS received on May 20, 2020	Computed length	City GIS received on May 20, 2020	City GIS received on May 20, 2020	Computed along
L	oussion on received on May 29, 2020	Tooneored and miled missing inler ID for WWOWE 2020	Donrected and miled missing outlet ID 101 W W SIVIE 2020	Unity and received on Way 29, 2020		ony and received on Way 29, 2020	Torry and received on Ividy 29, 2020	

				DIAMETER SOURCE	LENGTH SOURCE		DOWNINVERT SOURCE	
		Dummu pada gragted for missing inlet for WIWEND 2020	Corrected and filled missing outlet ID for WWSMD 2020	City CIC received on May 20, 2020	Computed length	City CIS received on May 20, 2020	City CIS received on May 20, 2020	
870		Durning hode created for missing inlet for WWSMP 2020		City GIS received on May 29, 2020		City GIS received on May 29, 2020		
870	D2 City GIS received on May 29, 2020	Dummy node created for missing inlet for WWSMP 2020	Corrected and filled missing outlet ID for WWSMP 2020	City GIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed slope
870	05 City GIS received on May 29, 2020	Corrected and filled missing inlet ID for WWSMP 2020	Corrected and filled missing outlet ID for WWSMP 2020	City GIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed slope
870	07 City GIS received on May 29, 2020	Corrected and filled missing inlet ID for WWSMP 2020	Corrected and filled missing outlet ID for WWSMP 2020	City GIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed slope
870	08 City GIS received on May 29, 2020	Corrected and filled missing inlet ID for WWSMP 2020	Dummy node created for missing outlet for WWSMP 2020	City GIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed slope
871	11 City GIS received on May 29, 2020	City GIS received on May 29, 2020	Corrected and filled missing outlet ID for WWSMP 2020	City GIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed slope
872	21 City GIS received on May 29, 2020	Corrected and filled missing inlet ID for WWSMP 2020	Corrected and filled missing outlet ID for WWSMP 2020	City GIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed slope
872	22 City GIS received on May 29, 2020	Corrected and filled missing inlet ID for WWSMP 2020	Corrected and filled missing outlet ID for WWSMP 2020	City GIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed slope
072	22 City CIS received on May 20, 2020	Corrected and filled missing inlet ID for WWOMP 2020	Corrected and filled missing outlet ID for WWSMP 2020	City CIC received on May 20, 2020	Computed length	City CIC received on May 20, 2020	City CIS received on May 20, 2020	
872								
8/2	24 City GIS received on May 29, 2020	Corrected and filled missing inlet ID for WWSMP 2020	Corrected and filled missing outlet ID for WWSMP 2020	City GIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed slope
872	25 City GIS received on May 29, 2020	Corrected and filled missing inlet ID for WWSMP 2020	Corrected and filled missing outlet ID for WWSMP 2020	City GIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed slope
872	26 City GIS received on May 29, 2020	Corrected and filled missing inlet ID for WWSMP 2020	Corrected and filled missing outlet ID for WWSMP 2020	City GIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed slope
872	27 City GIS received on May 29, 2020	Corrected and filled missing inlet ID for WWSMP 2020	Corrected and filled missing outlet ID for WWSMP 2020	City GIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed slope
872	28 City GIS received on May 29, 2020	Corrected and filled missing inlet ID for WWSMP 2020	Corrected and filled missing outlet ID for WWSMP 2020	City GIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed slope
872	29 City GIS received on May 29, 2020	Corrected and filled missing inlet ID for WWSMP 2020	Corrected and filled missing outlet ID for WWSMP 2020	City GIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed slope
873	30 City GIS received on May 29, 2020	Corrected and filled missing inlet ID for WWSMP 2020	Corrected and filled missing outlet ID for WWSMP 2020	City GIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed slope
873	31 City GIS received on May 29, 2020	Corrected and filled missing inlet ID for WWSMP 2020	Corrected and filled missing outlet ID for WWSMP 2020	City GIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed slope
972	22 City CIS received on May 29, 2020	Corrected and filled missing inlet ID for WWSMP 2020	Corrected and filled missing outlet ID for WWSMP 2020	City CIS received on May 20, 2020		City CIS received on May 20, 2020	City CIS received on May 20, 2020	
873	City CIS received on May 29, 2020	Corrected and filled missing inlet ID for WWSNIP 2020	Corrected and filled missing outlet ID for WWSMP 2020	City CIS received on May 29, 2020		City CIS received on May 29, 2020	City CIS received on May 29, 2020	
873				City GIS received on May 29, 2020				
873	34 City GIS received on May 29, 2020	Corrected and filled missing inlet ID for WWSMP 2020	Corrected and filled missing outlet ID for WWSMP 2020	City GIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed slope
	35 City GIS received on May 29, 2020	Corrected and filled missing inlet ID for WWSMP 2020	Corrected and filled missing outlet ID for WWSMP 2020	City GIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed slope
873	36 City GIS received on May 29, 2020	Corrected and filled missing inlet ID for WWSMP 2020	Corrected and filled missing outlet ID for WWSMP 2020	City GIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed slope
873	37 City GIS received on May 29, 2020	City GIS received on May 29, 2020	Corrected and filled missing outlet ID for WWSMP 2020	City GIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed slope
874	40 City GIS received on May 29, 2020	Corrected and filled missing inlet ID for WWSMP 2020	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed slope
874	11 City GIS received on May 29, 2020	Corrected and filled missing inlet ID for WWSMP 2020	Corrected and filled missing outlet ID for WWSMP 2020	City GIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed slope
874	12 City GIS received on May 29. 2020	Corrected and filled missing inlet ID for WWSMP 2020	Corrected and filled missing outlet ID for WWSMP 2020	City GIS received on May 29, 2020	Computed length	City GIS received on May 29. 2020	City GIS received on May 29, 2020	Computed slope
874	13 City GIS received on May 29, 2020	Corrected and filled missing inlet ID for WWSMP 2020	Dummy node created for missing outlet for WWSMP 2020	City GIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed slope
074	14 City GIS received on May 20, 2020	Corrected and filled missing inlet ID for WWOWI 2020	Corrected and filled missing outlet ID for W/WSMD 2020	City GIS received on May 20, 2020	Computed length	City GIS received on May 20, 2020	City GIS received on May 20, 2020	Computed slope
874							City GIS received on May 29, 2020	
874	45 City GIS received on May 29, 2020	Corrected and filled missing inlet ID for WWSMP 2020	Corrected and filled missing outlet ID for WWSMP 2020	City GIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed slope
	16 City GIS received on May 29, 2020	Corrected and filled missing inlet ID for WWSMP 2020	Corrected and filled missing outlet ID for WWSMP 2020	City GIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed slope
874	47 City GIS received on May 29, 2020	Corrected and filled missing inlet ID for WWSMP 2020	Corrected and filled missing outlet ID for WWSMP 2020	City GIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed slope
874	48 City GIS received on May 29, 2020	Corrected and filled missing inlet ID for WWSMP 2020	Corrected and filled missing outlet ID for WWSMP 2020	City GIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed slope
874	49 City GIS received on May 29, 2020	Corrected and filled missing inlet ID for WWSMP 2020	Corrected and filled missing outlet ID for WWSMP 2020	City GIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed slope
875	50 City GIS received on May 29, 2020	Corrected and filled missing inlet ID for WWSMP 2020	Dummy node created for missing outlet for WWSMP 2020	City GIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed slope
875	51 City GIS received on May 29, 2020	Corrected and filled missing inlet ID for WWSMP 2020	Dummy node created for missing outlet for WWSMP 2020	City GIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed slope
875	52 City GIS received on May 29, 2020	Corrected and filled missing inlet ID for WWSMP 2020	Corrected and filled missing outlet ID for WWSMP 2020	City GIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed slope
875	53 City CIS received on May 29, 2020	Corrected and filled missing inlet ID for WWSMP 2020	Corrected and filled missing outlet ID for WWSMP 2020	City CIS received on May 29, 2020	Computed length	City CIS received on May 29, 2020	City CIS received on May 29, 2020	Computed slope
875		Corrected and filled missing inlet ID for WWSMP 2020	Confected and filled missing outlet ID for WWSMF 2020			City CIO received on May 29, 2020	City GIS received on May 29, 2020	
875	54 City GIS received on May 29, 2020	Corrected and filled missing inlet ID for WWSMP 2020	Corrected and filled missing outlet ID for WWSMP 2020	City GIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed slope
875	55 City GIS received on May 29, 2020	Corrected and filled missing inlet ID for WWSMP 2020	Corrected and filled missing outlet ID for WWSMP 2020	City GIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed slope
875	56 City GIS received on May 29, 2020	Corrected and filled missing inlet ID for WWSMP 2020	Corrected and filled missing outlet ID for WWSMP 2020	City GIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed slope
875	57 City GIS received on May 29, 2020	Corrected and filled missing inlet ID for WWSMP 2020	Corrected and filled missing outlet ID for WWSMP 2020	City GIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed slope
875	58 City GIS received on May 29, 2020	Corrected and filled missing inlet ID for WWSMP 2020	Corrected and filled missing outlet ID for WWSMP 2020	City GIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed slope
875	59 City GIS received on May 29, 2020	Corrected and filled missing inlet ID for WWSMP 2020	Corrected and filled missing outlet ID for WWSMP 2020	City GIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed slope
876	60 City GIS received on May 29, 2020	Corrected and filled missing inlet ID for WWSMP 2020	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed slope
876	61 City GIS received on May 29, 2020	Corrected and filled missing inlet ID for WWSMP 2020	Corrected and filled missing outlet ID for WWSMP 2020	City GIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed slope
876	52 City GIS received on May 29, 2020	Corrected and filled missing inlet ID for WWSMP 2020	Corrected and filled missing outlet ID for WWSMP 2020	City GIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed slope
	City CIS received on May 20, 2020	Corrected and filled missing inlet ID for WWSMP 2020	Corrected and filled missing outlet ID for WWSMP 2020	City CIS received on May 29, 2020	Computed length	City CIS received on May 20, 2020	City CIS received on May 20, 2020	Computed slope
876		Corrected and filled missing inlet ID for WWSMP 2020	Corrected and filled missing outlet ID for WWSMP 2020			City CIC received on May 29, 2020	City CIS received on May 29, 2020	
876	55 City GIS received on May 29, 2020	Corrected and filled missing inlet ID for WWSMP 2020	Corrected and filled missing outlet ID for WWSMP 2020	City GIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed slope
876	66 City GIS received on May 29, 2020	Corrected and filled missing inlet ID for WWSMP 2020	Corrected and filled missing outlet ID for WWSMP 2020	City GIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed slope
876	67 City GIS received on May 29, 2020	Corrected and filled missing inlet ID for WWSMP 2020	Corrected and filled missing outlet ID for WWSMP 2020	City GIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed slope
876	68 City GIS received on May 29, 2020	Corrected and filled missing inlet ID for WWSMP 2020	Corrected and filled missing outlet ID for WWSMP 2020	City GIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed slope
876	69 City GIS received on May 29, 2020	Dummy node created for missing inlet for WWSMP 2020	Corrected and filled missing outlet ID for WWSMP 2020	City GIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed slope
877	70 City GIS received on May 29, 2020	Corrected and filled missing inlet ID for WWSMP 2020	Dummy node created for missing outlet for WWSMP 2020	City GIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed slope
877	71 City GIS received on May 29, 2020	Corrected and filled missing inlet ID for WWSMP 2020	Corrected and filled missing outlet ID for WWSMP 2020	City GIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed slope
877	72 City GIS received on May 29, 2020	Dummy node created for missing inlet for WWSMP 2020	Corrected and filled missing outlet ID for WWSMP 2020	City GIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed slope
877	73 City GIS received on May 29, 2020	Dummy node created for missing inlet for WWSMP 2020	Corrected and filled missing outlet ID for WWSMP 2020	City GIS received on May 29, 2020	Computed length	City GIS received on May 29. 2020	City GIS received on May 29, 2020	Computed slope
۵, ۲ ۵, ۳7	74 City GIS received on May 29, 2020	Corrected and filled missing inlet ID for WWSMP 2020	Dummy node created for missing outlet for WWSMP 2020	City GIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed slope
977	75 City CIS received on May 29, 2020	Dummy node created for missing inlet for WWSMP 2020	Corrected and filled missing outlet ID for WWSMP 2020	City CIS received on May 29, 2020	Computed length	City CIS received on May 29, 2020	City CIS received on May 29, 2020	Computed slope
877	75 City CIS received on May 29, 2020	Corrected and filled missing inlet ID for MINCMP 2020	Corrected and filled missing outlet ID for WWSMP 2020	City CIS received on May 29, 2020	Computed length	City CIC received on May 29, 2020	City CIS received on May 29, 2020	
877							City GIS received on May 29, 2020	
877	77 City GIS received on May 29, 2020	Corrected and filled missing inlet ID for WWSMP 2020	Corrected and filled missing outlet ID for WWSMP 2020	City GIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed slope
877	78 City GIS received on May 29, 2020	Corrected and tilled missing inlet ID for WWSMP 2020	Corrected and filled missing outlet ID for WWSMP 2020	City GIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed slope
	79 City GIS received on May 29, 2020	Corrected and filled missing inlet ID for WWSMP 2020	Dummy node created for missing outlet for WWSMP 2020	City GIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed slope
878	30 City GIS received on May 29, 2020	City GIS received on May 29, 2020	Corrected and filled missing outlet ID for WWSMP 2020	City GIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed slope
878	31 City GIS received on May 29, 2020	Corrected and filled missing inlet ID for WWSMP 2020	Corrected and filled missing outlet ID for WWSMP 2020	City GIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed slope
878	37 City GIS received on May 29, 2020	Corrected and filled missing inlet ID for WWSMP 2020	Corrected and filled missing outlet ID for WWSMP 2020	City GIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed slope
878	39 City GIS received on May 29, 2020	Dummy node created for missing inlet for WWSMP 2020	Corrected and filled missing outlet ID for WWSMP 2020	City GIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed slope
870	20 City GIS received on May 29, 2020	Corrected and filled missing inlet ID for WWSMP 2020	Corrected and filled missing outlet ID for WWSMP 2020	City GIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed slope
070	1 City GIS received on May 20, 2020	Corrected and filled missing inlet ID for WWSMP 2020	Corrected and filled missing outlet ID for WWSMP 2020	City GIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed slope
678	City CIS received on May 23, 2020	Dummy node created for missing inlet for M/M/CMD 0000	Corrected and filled missing outlet ID for WWOMP 2020	City CIS received on May 20, 2020		City CIC received on May 20, 2020	City CIC received on May 20, 2020	Computed slope
8/9		Compared and filled established by the for WWSMP 2020						
879	balony GIS received on May 29, 2020	Corrected and filled missing inlet ID for WWSMP 2020	Corrected and filled missing outlet ID for WWSMP 2020	Uity GIS received on May 29, 2020	Computed length	Uly GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed slope
879	04 City GIS received on May 29, 2020	Corrected and tilled missing inlet ID for WWSMP 2020	Corrected and tilled missing outlet ID for WWSMP 2020	City GIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed slope
879	95 City GIS received on May 29, 2020	Corrected and filled missing inlet ID for WWSMP 2020	Corrected and filled missing outlet ID for WWSMP 2020	City GIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed slope
879	96 City GIS received on May 29, 2020	Corrected and filled missing inlet ID for WWSMP 2020	Dummy node created for missing outlet for WWSMP 2020	City GIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed slope
879	97 City GIS received on May 29, 2020	Dummy node created for missing inlet for WWSMP 2020	Corrected and filled missing outlet ID for WWSMP 2020	City GIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed slope
879	98 City GIS received on May 29, 2020	Corrected and filled missing inlet ID for WWSMP 2020	Corrected and filled missing outlet ID for WWSMP 2020	City GIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed slope
880	05 City GIS received on May 29, 2020	Corrected and filled missing inlet ID for WWSMP 2020	Corrected and filled missing outlet ID for WWSMP 2020	City GIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed slope
880	07 City GIS received on May 29. 2020	Corrected and filled missing inlet ID for WWSMP 2020	Corrected and filled missing outlet ID for WWSMP 2020	City GIS received on May 29. 2020	Computed length	City GIS received on May 29. 2020	City GIS received on May 29. 2020	Computed slope
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							DOWNINIVERT SOURCE	
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					LENGTH_SOURCE			SLOPE_SOURCE
8808	3 City GIS received on May 29, 2020	Corrected and filled missing inlet ID for WWSMP 2020	Dummy node created for missing outlet for WWSMP 2020	City GIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed slope
8809	O City GIS received on May 29, 2020	Corrected and filled missing inlet ID for WWSMP 2020	Dummy node created for missing outlet for WWSMP 2020	City GIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed slope
8810	City GIS received on May 29, 2020	Corrected and filled missing inlet ID for WWSMP 2020	Corrected and filled missing outlet ID for WWSMP 2020	City GIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed slope
8811	City GIS received on May 29, 2020	Corrected and filled missing inlet ID for WWSMP 2020	Corrected and filled missing outlet ID for WWSMP 2020	City GIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed slope
8812	2 City GIS received on May 29, 2020	Corrected and filled missing inlet ID for WWSMP 2020	Corrected and filled missing outlet ID for WWSMP 2020	City GIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed slope
8813	City GIS received on May 29, 2020	Corrected and filled missing inlet ID for WWSMP 2020	Corrected and filled missing outlet ID for WWSMP 2020	City GIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed slope
8815	City CIS received on May 29, 2020	Corrected and filled missing inlet ID for WWSMP 2020	Corrected and filled missing outlet ID for WWSMP 2020	City GIS received on May 29, 2020	Computed length	City CIS received on May 29, 2020	City CIS received on May 29, 2020	
8813		Corrected and filled missing inlet ID for WWSMF 2020	Confected and filled missing outlet ID for WWSMF 2020	City CIS received on May 29, 2020				
0010		Corrected and filled missing filet ID for WWSMP 2020	Corrected and filled missing outlet ID for WWSMP 2020	City GIS received on May 29, 2020		City GIS received on May 29, 2020		
8817	City GIS received on May 29, 2020	Corrected and filled missing inlet ID for WWSMP 2020	Corrected and filled missing outlet ID for WWSMP 2020	City GIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed slope
8818	3 City GIS received on May 29, 2020	Corrected and filled missing inlet ID for WWSMP 2020	Corrected and filled missing outlet ID for WWSMP 2020	City GIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed slope
8819	O City GIS received on May 29, 2020	Corrected and filled missing inlet ID for WWSMP 2020	Corrected and filled missing outlet ID for WWSMP 2020	City GIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed slope
8820	City GIS received on May 29, 2020	Corrected and filled missing inlet ID for WWSMP 2020	Dummy node created for missing outlet for WWSMP 2020	City GIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed slope
8821	City GIS received on May 29, 2020	Dummy node created for missing inlet for WWSMP 2020	Corrected and filled missing outlet ID for WWSMP 2020	City GIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed slope
8822	2 City GIS received on May 29, 2020	Corrected and filled missing inlet ID for WWSMP 2020	Corrected and filled missing outlet ID for WWSMP 2020	City GIS received on May 29, 2020	Computed length	Engineering judgment for WWSMP 2020	Engineering judgment for WWSMP 2020	Computed slope
8823	City GIS received on May 29, 2020	Corrected and filled missing inlet ID for WWSMP 2020	Corrected and filled missing outlet ID for WWSMP 2020	City GIS received on May 29, 2020	Computed length	Engineering judgment for WWSMP 2020	Engineering judgment for WWSMP 2020	Computed slope
8824	City GIS received on May 29, 2020	Corrected and filled missing inlet ID for WWSMP 2020	Corrected and filled missing outlet ID for WWSMP 2020	City GIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed slope
8825	City GIS received on May 29, 2020	Corrected and filled missing inlet ID for WWSMP 2020	Corrected and filled missing outlet ID for WWSMP 2020	City GIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	City GIS received on May 29, 2020	
	City CIS received on May 29, 2020	Corrected and filled missing inlet ID for WWOM 2020	Corrected and filled missing outlet ID for WWOM 2020	City CIS received on May 20, 2020	Computed length	City CIS received on May 20, 2020	City CIS received on May 20, 2020	
0007	2 Oity OIS received on May 29, 2020	Corrected and filled missing inlet ID for WWSMF 2020	Confected and filled missing outlet ID for WWSMF 2020	City CIS received on May 29, 2020				
8827	City GIS received on May 29, 2020	Corrected and filled missing inlet ID for WWSMP 2020	Corrected and filled missing outlet ID for WWSMP 2020	City GIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed slope
8828	3 City GIS received on May 29, 2020	Corrected and filled missing inlet ID for WWSMP 2020	Corrected and filled missing outlet ID for WWSMP 2020	City GIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed slope
8829	O City GIS received on May 29, 2020	Corrected and filled missing inlet ID for WWSMP 2020	Corrected and filled missing outlet ID for WWSMP 2020	City GIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed slope
8830	City GIS received on May 29, 2020	Corrected and filled missing inlet ID for WWSMP 2020	Corrected and filled missing outlet ID for WWSMP 2020	City GIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed slope
8831	City GIS received on May 29, 2020	Corrected and filled missing inlet ID for WWSMP 2020	Corrected and filled missing outlet ID for WWSMP 2020	City GIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed slope
8832	2 City GIS received on May 29, 2020	Corrected and filled missing inlet ID for WWSMP 2020	Corrected and filled missing outlet ID for WWSMP 2020	City GIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed slope
8833	City GIS received on May 29. 2020	Corrected and filled missing inlet ID for WWSMP 2020	Corrected and filled missing outlet ID for WWSMP 2020	City GIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed slope
8834	City GIS received on May 29, 2020	Corrected and filled missing inlet ID for WWSMP 2020	Corrected and filled missing outlet ID for WWSMP 2020	City GIS received on May 29. 2020	Computed length	City GIS received on May 29. 2020	City GIS received on May 29, 2020	Computed slope
8835	City GIS received on May 29, 2020	Corrected and filled missing inlet ID for WWSMP 2020	Corrected and filled missing outlet ID for WWSMP 2020	City GIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed slope
	City CIS received on May 29, 2020	Corrected and filled missing inlet ID for WWSMI 2020	Corrected and filled missing outlet ID for WWGMP 2020	City CIS received on May 29, 2020	Computed length	City CIS received on May 29, 2020	City CIS received on May 29, 2020	
8836			Corrected and filled missing outlet ID for WWSMP 2020				Oity OIS received on May 29, 2020	
8847	City GIS received on May 29, 2020	Dummy node created for missing inlet for WWSMP 2020	Corrected and filled missing outlet ID for WWSMP 2020	City GIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed slope
8853	3 City GIS received on May 29, 2020	Corrected and filled missing inlet ID for WWSMP 2020	Corrected and filled missing outlet ID for WWSMP 2020	City GIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed slope
8854	City GIS received on May 29, 2020	Corrected and filled missing inlet ID for WWSMP 2020	Corrected and filled missing outlet ID for WWSMP 2020	City GIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed slope
8855	5 City GIS received on May 29, 2020	Corrected and filled missing inlet ID for WWSMP 2020	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed slope
8856	6 City GIS received on May 29, 2020	City GIS received on May 29, 2020	Corrected and filled missing outlet ID for WWSMP 2020	City GIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed slope
8858	City GIS received on May 29, 2020	Corrected and filled missing inlet ID for WWSMP 2020	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed slope
8859	City GIS received on May 29, 2020	Dummy node created for missing inlet for WWSMP 2020	Dummy node created for missing outlet for WWSMP 2020	City GIS received on May 29, 2020	Computed length	Engineering judgment for WWSMP 2020	Engineering judgment for WWSMP 2020	Computed slope
8860	City GIS received on May 29, 2020	Corrected and filled missing inlet ID for WWSMP 2020	Corrected and filled missing outlet ID for WWSMP 2020	City GIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed slope
	City CIS received on May 20, 2020	Corrected and filled missing inlet ID for WWOM 2020	Dummy pada graated for missing outlet for WWSMP 2020	City CIS received on May 20, 2020	Computed length	City CIS received on May 20, 2020	Engineering indement for WWSMP 2020	
0000	Oity OIS received on May 29, 2020	Corrected and filled missing inlet ID for WWSMF 2020	Durning hode cleated for missing outlet ID for M(MOMP 2020	City CIS received on May 29, 2020		City CIO received on May 29, 2020		
8889	Gity GIS received on May 29, 2020	Corrected and filled missing inlet ID for WWSMP 2020	Corrected and filled missing outlet ID for WWSMP 2020	City GIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed slope
8890	City GIS received on May 29, 2020	Corrected and filled missing inlet ID for WWSMP 2020	Corrected and filled missing outlet ID for WWSMP 2020	City GIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed slope
8891	1 City GIS received on May 29, 2020	Corrected and filled missing inlet ID for WWSMP 2020	Corrected and filled missing outlet ID for WWSMP 2020	City GIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed slope
8892	2 City GIS received on May 29, 2020	Corrected and filled missing inlet ID for WWSMP 2020	Corrected and filled missing outlet ID for WWSMP 2020	City GIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed slope
8893	3 City GIS received on May 29, 2020	Corrected and filled missing inlet ID for WWSMP 2020	Corrected and filled missing outlet ID for WWSMP 2020	City GIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed slope
8894	City GIS received on May 29, 2020	Corrected and filled missing inlet ID for WWSMP 2020	Corrected and filled missing outlet ID for WWSMP 2020	City GIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed slope
8895	City GIS received on May 29, 2020	Corrected and filled missing inlet ID for WWSMP 2020	Corrected and filled missing outlet ID for WWSMP 2020	City GIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed slope
8896	City GIS received on May 29, 2020	Corrected and filled missing inlet ID for WWSMP 2020	Corrected and filled missing outlet ID for WWSMP 2020	City GIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed slope
8807	7 City CIS received on May 29, 2020	Corrected and filled missing inlet ID for WWSMP 2020	Corrected and filled missing outlet ID for WWSMP 2020	City GIS received on May 29, 2020	Computed length	City CIS received on May 29, 2020	City GIS received on May 29, 2020	Computed slope
6897	City CIS received on May 29, 2020	Corrected and filled missing inlet ID for WWSMF 2020	Confected and filled missing outlet ID for WWSMF 2020	City CIS received on May 29, 2020		City CIO received on May 29, 2020		
8898	City GIS received on May 29, 2020	Corrected and filled missing inlet ID for WWSMP 2020	Corrected and filled missing outlet ID for WWSMP 2020	City GIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed slope
8899	City GIS received on May 29, 2020	Corrected and filled missing inlet ID for WWSMP 2020	Corrected and filled missing outlet ID for WWSMP 2020	City GIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed slope
8900	O City GIS received on May 29, 2020	Corrected and filled missing inlet ID for WWSMP 2020	Corrected and filled missing outlet ID for WWSMP 2020	City GIS received on May 29, 2020	Computed length	Engineering judgment for WWSMP 2020	Engineering judgment for WWSMP 2020	Computed slope
8901	1 City GIS received on May 29, 2020	Corrected and filled missing inlet ID for WWSMP 2020	Corrected and filled missing outlet ID for WWSMP 2020	City GIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed slope
8902	2 City GIS received on May 29, 2020	Corrected and filled missing inlet ID for WWSMP 2020	Corrected and filled missing outlet ID for WWSMP 2020	City GIS received on May 29, 2020	Computed length	Engineering judgment for WWSMP 2020	Engineering judgment for WWSMP 2020	Computed slope
8903	3 City GIS received on May 29, 2020	Corrected and filled missing inlet ID for WWSMP 2020	Corrected and filled missing outlet ID for WWSMP 2020	City GIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed slope
8904	City GIS received on May 29, 2020	Corrected and filled missing inlet ID for WWSMP 2020	Corrected and filled missing outlet ID for WWSMP 2020	City GIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed slope
8905	City GIS received on May 29. 2020	Corrected and filled missing inlet ID for WWSMP 2020	Corrected and filled missing outlet ID for WWSMP 2020	City GIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed slope
8906	6 City GIS received on May 29, 2020	Corrected and filled missing inlet ID for WWSMP 2020	Corrected and filled missing outlet ID for WWSMP 2020	City GIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed slope
8007	7 City GIS received on May 29, 2020	Dummy node created for missing inlet for WWSMP 2020	Corrected and filled missing outlet ID for WWSMP 2020	City GIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed slope
8009	City CIS received on May 29, 2020	Dummy node created for missing inlet for WWSMP 2020	City GIS received on May 20, 2020	City CIS received on May 29, 2020	Computed length	City CIS received on May 20, 2020	City CIS received on May 20, 2020	
0000	City GIS received on May 29, 2020	Corrected and filled missing inlet ID for MMCMD 0000	Dummy node created for missing sublet for MMCMD 0000	City GIS received on May 20, 2020	Computed length	City CIS received on May 20, 2020	City CIS received on May 20, 2020	Computed slope
8909	City GIS received on May 29, 2020	Corrected and filled missing inter ID for WWSMP 2020	Dummy hode created for missing butter for WWSMP 2020	City GIS received on May 29, 2020		City GIS received on May 29, 2020	City GIS received on May 29, 2020	
8910	City GIS received on May 29, 2020	Corrected and filled missing inlet ID for WWSMP 2020	Corrected and filled missing outlet ID for WWSMP 2020	City GIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed slope
8911	1 City GIS received on May 29, 2020	Corrected and filled missing inlet ID for WWSMP 2020	Corrected and filled missing outlet ID for WWSMP 2020	City GIS received on May 29, 2020	Computed length	Engineering judgment for WWSMP 2020	Engineering judgment for WWSMP 2020	Computed slope
8912	2 City GIS received on May 29, 2020	Corrected and filled missing inlet ID for WWSMP 2020	Corrected and filled missing outlet ID for WWSMP 2020	City GIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed slope
8913	3 City GIS received on May 29, 2020	Corrected and filled missing inlet ID for WWSMP 2020	Corrected and filled missing outlet ID for WWSMP 2020	City GIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	Engineering judgment for WWSMP 2020	Computed slope
8914	City GIS received on May 29, 2020	Corrected and filled missing inlet ID for WWSMP 2020	Corrected and filled missing outlet ID for WWSMP 2020	City GIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed slope
8915	5 City GIS received on May 29, 2020	Corrected and filled missing inlet ID for WWSMP 2020	Corrected and filled missing outlet ID for WWSMP 2020	City GIS received on May 29, 2020	Computed length	Engineering judgment for WWSMP 2020	Engineering judgment for WWSMP 2020	Computed slope
8916	6 City GIS received on May 29. 2020	Corrected and filled missing inlet ID for WWSMP 2020	Corrected and filled missing outlet ID for WWSMP 2020	City GIS received on May 29, 2020	Computed length	Engineering judgment for WWSMP 2020	City GIS received on May 29, 2020	Computed slope
8918	City GIS received on May 29, 2020	Corrected and filled missing inlet ID for WWSMP 2020	Corrected and filled missing outlet ID for WWSMP 2020	City GIS received on May 29, 2020	Computed length	City GIS received on May 29. 2020	City GIS received on May 29, 2020	Computed slope
8064	4 City GIS received on May 29, 2020	Corrected and filled missing inlet ID for WWSMP 2020	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed slope
0304	City GIS received on May 29, 2020	Corrected and filled missing inlet ID for M/M/SMD 2020	Corrected and filled missing outlet ID for M/M/SMD 2020	City GIS received on May 20, 2020	Computed length	City GIS received on May 20, 2020	City GIS received on May 20, 2020	
8965			Corrected and filled missing outlet ID for WWSMP 2020					
8967	CUTY GIS received on May 29, 2020	Corrected and filled missing inlet ID for WWSMP 2020	Corrected and filled missing outlet ID for WWSMP 2020	Ully GIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	UILY GIS received on May 29, 2020	Computed slope
8968	3 City GIS received on May 29, 2020	Corrected and filled missing inlet ID for WWSMP 2020	Corrected and filled missing outlet ID for WWSMP 2020	City GIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed slope
8969	O City GIS received on May 29, 2020	Corrected and filled missing inlet ID for WWSMP 2020	Corrected and filled missing outlet ID for WWSMP 2020	City GIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed slope
8970	O City GIS received on May 29, 2020	Corrected and filled missing inlet ID for WWSMP 2020	Dummy node created for missing outlet for WWSMP 2020	City GIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed slope
8971	City GIS received on May 29, 2020	Dummy node created for missing inlet for WWSMP 2020	Corrected and filled missing outlet ID for WWSMP 2020	City GIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed slope
8972	2 City GIS received on May 29, 2020	Corrected and filled missing inlet ID for WWSMP 2020	Corrected and filled missing outlet ID for WWSMP 2020	City GIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed slope
8973	City GIS received on May 29, 2020	Corrected and filled missing inlet ID for WWSMP 2020	Corrected and filled missing outlet ID for WWSMP 2020	City GIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed slope
8974	City GIS received on May 29, 2020	Corrected and filled missing inlet ID for WWSMP 2020	Corrected and filled missing outlet ID for WWSMP 2020	City GIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed slope
8975	City GIS received on May 29, 2020	Corrected and filled missing inlet ID for WWSMP 2020	Corrected and filled missing outlet ID for WWSMP 2020	City GIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed slope
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CONDUIT ID					LENGTH_SOURCE		DOWNINVERT_SOURCE	SLOPE_SOURCE
	8976 City GIS received on May 29, 2020	Corrected and filled missing inlet ID for WWSMP 2020	Corrected and filled missing outlet ID for WWSMP 2020	City GIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed slope
	8977 City GIS received on May 29, 2020	Corrected and filled missing inlet ID for WWSMP 2020	Corrected and filled missing outlet ID for WWSMP 2020	City GIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed slope
	8978 City GIS received on May 29, 2020	Corrected and filled missing inlet ID for WWSMP 2020	Dummy node created for missing outlet for WWSMP 2020	City GIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed slope
	8979 City GIS received on May 29, 2020	Corrected and filled missing inlet ID for WWSMP 2020	Corrected and filled missing outlet ID for WWSMP 2020	City GIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed slope
	8980 City GIS received on May 29, 2020	City GIS received on May 29, 2020	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	Engineering judgment for WWSMP 2020	Computed slope
	8981 City GIS received on May 29, 2020	Corrected and filled missing inlet ID for WWSMP 2020	Corrected and filled missing outlet ID for WWSMP 2020	City GIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed slope
	8983 City GIS received on May 29, 2020	Corrected and filled missing inlet ID for WWSMP 2020	Corrected and filled missing outlet ID for WWSMP 2020	City GIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed slope
	8985 City GIS received on May 29, 2020	Corrected and filled missing inlet ID for WWSMP 2020	Corrected and filled missing outlet ID for WWSMP 2020	Engineering judgment for WWSMP 2020	Computed length	Engineering judgment for WWSMP 2020	Engineering judgment for WWSMP 2020	Computed slope
	8986 City GIS received on May 29, 2020	Corrected and filled missing inlet ID for WWSMP 2020	Corrected and filled missing outlet ID for WWSMP 2020	City GIS received on May 29, 2020	Computed length	Engineering judgment for WWSMP 2020	Engineering judgment for WWSMP 2020	
	8987 City CIS received on May 29, 2020	Corrected and filled missing inlet ID for WWSMP 2020	Corrected and filled missing outlet ID for WWSMP 2020	Engineering judgment for WWSMP 2020	Computed length	Engineering judgment for WWSMP 2020	Engineering judgment for W/WSMP 2020	
	8987 City CIS received on May 29, 2020	Corrected and filled missing inlet ID for WWSMP 2020	Corrected and filled missing outlet ID for WWSMP 2020	City CIS received on May 20, 2020	Computed length	City CIS received on May 20, 2020	City CIS received on May 20, 2020	
	8988 City GIS received on May 29, 2020	Collected and filled missing inlet ID for WWSMP 2020	Confected and filled missing outlet ID for WWSMP 2020	City GIS received on May 29, 2020		City GIS received off May 29, 2020	City GIS received on May 29, 2020	
	8989 City GIS received on May 29, 2020	Corrected and filled missing inlet ID for WWSMP 2020	Corrected and filled missing outlet ID for WWSMP 2020	Engineering judgment for WWSMP 2020	Computed length	Engineering judgment for WWSMP 2020	Engineering judgment for WWSMP 2020	Computed slope
	8990 City GIS received on May 29, 2020	Corrected and filled missing inlet ID for WWSMP 2020	Corrected and filled missing outlet ID for WWSMP 2020	City GIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed slope
	8992 City GIS received on May 29, 2020	Corrected and filled missing inlet ID for WWSMP 2020	Corrected and filled missing outlet ID for WWSMP 2020	City GIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed slope
	8993 City GIS received on May 29, 2020	Corrected and filled missing inlet ID for WWSMP 2020	Corrected and filled missing outlet ID for WWSMP 2020	City GIS received on May 29, 2020	Computed length	Engineering judgment for WWSMP 2020	Engineering judgment for WWSMP 2020	Computed slope
	8994 City GIS received on May 29, 2020	Corrected and filled missing inlet ID for WWSMP 2020	Corrected and filled missing outlet ID for WWSMP 2020	City GIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed slope
	8995 City GIS received on May 29, 2020	Corrected and filled missing inlet ID for WWSMP 2020	Corrected and filled missing outlet ID for WWSMP 2020	City GIS received on May 29, 2020	Computed length	Engineering judgment for WWSMP 2020	Engineering judgment for WWSMP 2020	Computed slope
	8997 City GIS received on May 29, 2020	Corrected and filled missing inlet ID for WWSMP 2020	Corrected and filled missing outlet ID for WWSMP 2020	City GIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed slope
	8998 City GIS received on May 29, 2020	Corrected and filled missing inlet ID for WWSMP 2020	Corrected and filled missing outlet ID for WWSMP 2020	City GIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed slope
	8999 City GIS received on May 29, 2020	Corrected and filled missing inlet ID for WWSMP 2020	Corrected and filled missing outlet ID for WWSMP 2020	City GIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	Engineering judgment for WWSMP 2020	Computed slope
	9000 City GIS received on May 29, 2020	City GIS received on May 29, 2020	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	Engineering judgment for WWSMP 2020	Computed slope
	9001 City GIS received on May 29, 2020	Corrected and filled missing inlet ID for WWSMP 2020	Corrected and filled missing outlet ID for WWSMP 2020	City GIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed slope
	9002 City GIS received on May 29, 2020	Corrected and filled missing inlet ID for WWSMP 2020	Corrected and filled missing outlet ID for WWSMP 2020	City GIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed slope
	9003 City GIS received on May 29, 2020	Dummy node created for missing inlet for WWSMP 2020	Dummy node created for missing outlet for WWSMP 2020	City GIS received on May 29, 2020	Computed length	Engineering judgment for WWSMP 2020	Engineering judgment for WWSMP 2020	Computed slope
	9004 City CIS received on May 29, 2020	Corrected and filled missing inlet ID for WWSMP 2020	Dummy node created for missing outlet for WWSMP 2020	Engineering judgment for W/W/SMR 2020	Computed length	Engineering judgment for WWSMP 2020	Engineering judgment for WWSMR 2020	
		Dummy node areated for missing inlet for M/M/CMD 0000	Corrected and filled missing outlet ID for MIMOND 2020			City CIS received on May 00, 0000		Computed slope
		Corrected and filled missing inlet for WWSMP 2020	Corrected and filled missing outlet ID for WWSMP 2020			City CID received on May 29, 2020	City GIS received on May 29, 2020	Computed slope
	9006 City GIS received on May 29, 2020	Corrected and filled missing inlet ID for WWSMP 2020	Corrected and filled missing outlet ID for WWSMP 2020	City GIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed slope
	9007 City GIS received on May 29, 2020	Corrected and filled missing inlet ID for WWSMP 2020	Corrected and filled missing outlet ID for WWSMP 2020	City GIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed slope
	9008 City GIS received on May 29, 2020	Corrected and filled missing inlet ID for WWSMP 2020	Corrected and filled missing outlet ID for WWSMP 2020	City GIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed slope
	9009 City GIS received on May 29, 2020	Corrected and filled missing inlet ID for WWSMP 2020	Corrected and filled missing outlet ID for WWSMP 2020	City GIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed slope
	9010 City GIS received on May 29, 2020	Corrected and filled missing inlet ID for WWSMP 2020	Corrected and filled missing outlet ID for WWSMP 2020	City GIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed slope
	9048 City GIS received on May 29, 2020	Corrected and filled missing inlet ID for WWSMP 2020	Corrected and filled missing outlet ID for WWSMP 2020	City GIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed slope
	9049 City GIS received on May 29, 2020	Corrected and filled missing inlet ID for WWSMP 2020	Corrected and filled missing outlet ID for WWSMP 2020	City GIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed slope
	9050 City GIS received on May 29, 2020	Corrected and filled missing inlet ID for WWSMP 2020	Corrected and filled missing outlet ID for WWSMP 2020	City GIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed slope
	9051 City GIS received on May 29, 2020	Corrected and filled missing inlet ID for WWSMP 2020	Corrected and filled missing outlet ID for WWSMP 2020	City GIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed slope
	9052 City GIS received on May 29, 2020	Corrected and filled missing inlet ID for WWSMP 2020	Corrected and filled missing outlet ID for WWSMP 2020	City GIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed slope
	9052 City CIS received on May 29, 2020	Corrected and filled missing inlet ID for WWSMP 2020	Corrected and filled missing outlet ID for WWSMP 2020	City CIS received on May 29, 2020	Computed length	City CIS received on May 29, 2020	City CIS received on May 29, 2020	
	9053 City GIS received on May 29, 2020	Corrected and filled missing inlet ID for WWSMP 2020	Confected and filled missing outlet ID for WWSMP 2020	City CIS received on May 29, 2020		City CIS received off May 29, 2020	City GIS received on May 29, 2020	
	9054 City GIS received on May 29, 2020	Corrected and filled missing inlet ID for WWSMP 2020	Corrected and filled missing outlet ID for WWSMP 2020	City GIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed slope
	9055 City GIS received on May 29, 2020	Corrected and filled missing inlet ID for WWSMP 2020	Corrected and filled missing outlet ID for WWSMP 2020	City GIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed slope
	9056 City GIS received on May 29, 2020	Corrected and filled missing inlet ID for WWSMP 2020	Corrected and filled missing outlet ID for WWSMP 2020	City GIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed slope
	9057 City GIS received on May 29, 2020	Corrected and filled missing inlet ID for WWSMP 2020	Corrected and filled missing outlet ID for WWSMP 2020	City GIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed slope
	9058 City GIS received on May 29, 2020	Corrected and filled missing inlet ID for WWSMP 2020	Corrected and filled missing outlet ID for WWSMP 2020	City GIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed slope
	9059 City GIS received on May 29, 2020	Dummy node created for missing inlet for WWSMP 2020	Corrected and filled missing outlet ID for WWSMP 2020	City GIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed slope
	9060 City GIS received on May 29, 2020	Dummy node created for missing inlet for WWSMP 2020	Corrected and filled missing outlet ID for WWSMP 2020	City GIS received on May 29, 2020	Computed length	Engineering judgment for WWSMP 2020	Engineering judgment for WWSMP 2020	Computed slope
	9061 City GIS received on May 29, 2020	Corrected and filled missing inlet ID for WWSMP 2020	Corrected and filled missing outlet ID for WWSMP 2020	City GIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed slope
	9062 City GIS received on May 29, 2020	Corrected and filled missing inlet ID for WWSMP 2020	Corrected and filled missing outlet ID for WWSMP 2020	City GIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed slope
	9063 City GIS received on May 29, 2020	Dummy node created for missing inlet for WWSMP 2020	Corrected and filled missing outlet ID for WWSMP 2020	City GIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed slope
	9064 City GIS received on May 29, 2020	Corrected and filled missing inlet ID for WWSMP 2020	Corrected and filled missing outlet ID for WWSMP 2020	City GIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed slope
	9065 City GIS received on May 29, 2020	Dummy node created for missing inlet for WWSMP 2020	Corrected and filled missing outlet ID for WWSMP 2020	City GIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed slope
	9005 City CIS received on May 29, 2020	Dummy hode created for missing inlet for WWSMP 2020	Corrected and filled missing outlet ID for WWSMP 2020	City CIS received on May 29, 2020	Computed length	Engineering judgment for W/WSMD 2020	City CIS received on May 29, 2020	
	9000 City GIS received on May 29, 2020	Durning hode cleated for missing inlet ID for MIMOND 0000	Corrected and filled missing outlet ID for WWSMP 2020	City CIS received on May 29, 2020		City Olo reserved on May 20, 2000	City GIS received on May 29, 2020	
	9067 City GIS received on May 29, 2020	Corrected and filled missing inlet ID for WWSMP 2020	Corrected and filled missing outlet ID for WWSMP 2020	City GIS received on May 29, 2020		City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed slope
	9068 City GIS received on May 29, 2020	Corrected and filled missing inlet ID for WWSMP 2020	Corrected and filled missing outlet ID for WWSMP 2020	City GIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed slope
	9069 City GIS received on May 29, 2020	Corrected and filled missing inlet ID for WWSMP 2020	Corrected and filled missing outlet ID for WWSMP 2020	City GIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed slope
	9070 City GIS received on May 29, 2020	Corrected and filled missing inlet ID for WWSMP 2020	Corrected and filled missing outlet ID for WWSMP 2020	City GIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed slope
	9071 City GIS received on May 29, 2020	Corrected and filled missing inlet ID for WWSMP 2020	Corrected and filled missing outlet ID for WWSMP 2020	City GIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed slope
	9072 City GIS received on May 29, 2020	Dummy node created for missing inlet for WWSMP 2020	Corrected and filled missing outlet ID for WWSMP 2020	City GIS received on May 29, 2020	Computed length	Engineering judgment for WWSMP 2020	City GIS received on May 29, 2020	Computed slope
	9073 City GIS received on May 29, 2020	Dummy node created for missing inlet for WWSMP 2020	Corrected and filled missing outlet ID for WWSMP 2020	City GIS received on May 29, 2020	Computed length	Engineering judgment for WWSMP 2020	City GIS received on May 29, 2020	Computed slope
	9074 City GIS received on May 29, 2020	Dummy node created for missing inlet for WWSMP 2020	Corrected and filled missing outlet ID for WWSMP 2020	City GIS received on May 29, 2020	Computed length	Engineering judgment for WWSMP 2020	City GIS received on May 29, 2020	Computed slope
	9075 City GIS received on May 29, 2020	Corrected and filled missing inlet ID for WWSMP 2020	Corrected and filled missing outlet ID for WWSMP 2020	City GIS received on May 29, 2020	Computed length	Engineering judgment for WWSMP 2020	Engineering judgment for WWSMP 2020	Computed slope
	9076 City GIS received on May 29, 2020	Corrected and filled missing inlet ID for WWSMP 2020	Corrected and filled missing outlet ID for WWSMP 2020	City GIS received on May 29, 2020	Computed length	Engineering judgment for WWSMP 2020	Engineering judgment for WWSMP 2020	Computed slope
	9077 City GIS received on May 29, 2020	Corrected and filled missing inlet ID for WWSMP 2020	Corrected and filled missing outlet ID for WWSMP 2020	City GIS received on May 29, 2020	Computed length	Engineering judgment for WWSMP 2020	Engineering judgment for WWSMP 2020	Computed slope
	9078 City GIS received on May 29, 2020	Corrected and filled missing inlet ID for WWSMP 2020	Corrected and filled missing outlet ID for WWSMP 2020	City GIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed slope
	9079 City GIS received on May 29, 2020	Corrected and filled missing inlet ID for WWSMP 2020	Corrected and filled missing outlet ID for WWSMP 2020	City GIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed slope
	9081 City GIS received on May 20, 2020	Corrected and filled missing inlet ID for WWSMP 2020	Corrected and filled missing outlet ID for WWSMP 2020	City GIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	City GIS received on May 20, 2020	Computed slope
	9081 City CIS received on May 29, 2020	Corrected and filled missing inlet ID for WWSMP 2020	Corrected and filled missing outlet ID for WWSMP 2020	City CIS received on May 29, 2020	Computed length	City CIS received on May 29, 2020	City CIS received on May 29, 2020	
		Corrected and filled missing inlet ID for WWOMP 2020	Corrected and filled missing outlet ID for WWOMP 2020					
		Corrected and filled missing inlet ID for WWSMP 2020	Corrected and filled missing outlet ID for WWSMP 2020		Computed length		City GIS received on May 29, 2020	
	9084 City GIS received on May 29, 2020	Corrected and filled missing inlet ID for WWSMP 2020	Corrected and filled missing outlet ID for WWSMP 2020	City GIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed slope
	9085 City GIS received on May 29, 2020	Corrected and filled missing inlet ID for WWSMP 2020	Corrected and filled missing outlet ID for WWSMP 2020	City GIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed slope
	9086 City GIS received on May 29, 2020	Corrected and filled missing inlet ID for WWSMP 2020	Corrected and filled missing outlet ID for WWSMP 2020	City GIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed slope
	9087 City GIS received on May 29, 2020	Corrected and filled missing inlet ID for WWSMP 2020	Corrected and filled missing outlet ID for WWSMP 2020	City GIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed slope
	9088 City GIS received on May 29, 2020	Corrected and filled missing inlet ID for WWSMP 2020	Corrected and filled missing outlet ID for WWSMP 2020	City GIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed slope
	9089 City GIS received on May 29, 2020	Corrected and filled missing inlet ID for WWSMP 2020	Corrected and filled missing outlet ID for WWSMP 2020	City GIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed slope
	9090 City GIS received on May 29, 2020	Corrected and filled missing inlet ID for WWSMP 2020	Corrected and filled missing outlet ID for WWSMP 2020	City GIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed slope
	9091 City GIS received on May 29, 2020	Corrected and filled missing inlet ID for WWSMP 2020	Corrected and filled missing outlet ID for WWSMP 2020	City GIS received on May 29. 2020	Computed length	City GIS received on May 29. 2020	City GIS received on May 29. 2020	Computed slope
	9092 City GIS received on May 29, 2020	Corrected and filled missing inlet ID for WWSMP 2020	Corrected and filled missing outlet ID for WWSMP 2020	City GIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed slope
	9093 City GIS received on May 20, 2020	Corrected and filled missing inlet ID for WWSMP 2020	Corrected and filled missing outlet ID for WWSMP 2020	City GIS received on May 20, 2020	Computed length	City GIS received on May 29, 2020	City GIS received on May 20, 2020	Computed slope
	0004 City CIS received on May 20, 2020	Corrected and filled missing inlet ID for WWOWF 2020	Corrected and filled missing outlet ID for MIMOND 0000	City CIS received on May 20, 2020		City CIS received on May 20, 2020	City CIC received on May 20, 2020	Computed along
L	SUSATORY CIS received on May 29, 2020	Corrected and miled missing milet ID for WWSMP 2020	Corrected and miled missing outlet ID for WWSMP 2020	City GIS received on May 29, 2020		Loity GIS received on May 29, 2020	Loity dia received on May 29, 2020	

				DIAMETER SOURCE	LENGTH SOURCE		DOWNINVERT SOURCE	SLOPE SOURCE
	5 City CIS received on May 29, 2020	Corrected and filled missing inlet ID for WWSMP 2020	Corrected and filled missing outlet ID for WW/SMP 2020	City CIS received on May 20, 2020		City CIS received on May 29, 2020	City CIS received on May 29, 2020	
909	City CIS received on May 29, 2020	Corrected and filled missing inlet ID for WWSMF 2020	Corrected and filled missing outlet ID for WWSIM 2020			City CIS received on May 29, 2020	City CIC received on May 29, 2020	
9096	6 City GIS received on May 29, 2020	Corrected and filled missing intel ID for WWSMP 2020		City GIS received on May 29, 2020		City GIS received on May 29, 2020	City GIS received on May 29, 2020	
9097	7 City GIS received on May 29, 2020	Corrected and filled missing inlet ID for WWSMP 2020	Corrected and filled missing outlet ID for WWSMP 2020	City GIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed slope
9098	8 City GIS received on May 29, 2020	Corrected and filled missing inlet ID for WWSMP 2020	Corrected and filled missing outlet ID for WWSMP 2020	City GIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	Engineering judgment for WWSMP 2020	Computed slope
9099	9 City GIS received on May 29, 2020	City GIS received on May 29, 2020	Corrected and filled missing outlet ID for WWSMP 2020	City GIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	Engineering judgment for WWSMP 2020	Computed slope
9100	0 City GIS received on May 29, 2020	Corrected and filled missing inlet ID for WWSMP 2020	Corrected and filled missing outlet ID for WWSMP 2020	City GIS received on May 29, 2020	Computed length	Engineering judgment for WWSMP 2020	City GIS received on May 29, 2020	Computed slope
9101	1 City GIS received on May 29, 2020	Dummy node created for missing inlet for WWSMP 2020	Corrected and filled missing outlet ID for WWSMP 2020	City GIS received on May 29, 2020	Computed length	Engineering judgment for WWSMP 2020	Engineering judgment for WWSMP 2020	Computed slope
9102	2 City GIS received on May 29, 2020	Corrected and filled missing inlet ID for WWSMP 2020	Corrected and filled missing outlet ID for WWSMP 2020	City GIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed slope
9103	3 City GIS received on May 29, 2020	Corrected and filled missing inlet ID for WWSMP 2020	Corrected and filled missing outlet ID for WWSMP 2020	City GIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed slope
9104	4 City GIS received on May 29, 2020	Corrected and filled missing inlet ID for WWSMP 2020	Corrected and filled missing outlet ID for WWSMP 2020	City GIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed slope
910	5 City GIS received on May 29, 2020	Corrected and filled missing inlet ID for WWSMP 2020	Corrected and filled missing outlet ID for WWSMP 2020	City GIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	City GIS received on May 29, 2020	
910	6 City CIS received on May 29, 2020	Corrected and filled missing inlet ID for WWSMP 2020	Corrected and filled missing outlet ID for WWSMR 2020	City CIS received on May 20, 2020	Computed length	City CIS received on May 29, 2020	City CIS received on May 29, 2020	
9100	7 City CIS received on May 29, 2020	Corrected and filled missing inlet ID for WWSMP 2020	Corrected and filled missing outlet ID for WWSMF 2020	City CIS received on May 29, 2020	Computed length	City CIS received on May 29, 2020	City CIS received on May 29, 2020	
9107	City CIS received on May 29, 2020	Corrected and filled missing inlet ID for WWSMF 2020	Corrected and filled missing outlet ID for WWSMP 2020	City CIS received on May 29, 2020	Computed length	City CIS received on May 29, 2020	City CIS received on May 29, 2020	
9100								
910	9 City GIS received on May 29, 2020	Corrected and filled missing inlet ID for WWSMP 2020	Corrected and filled missing outlet ID for WWSMP 2020	City GIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed slope
9110	City GIS received on May 29, 2020	Corrected and filled missing inlet ID for WWSMP 2020	Corrected and filled missing outlet ID for WWSMP 2020	City GIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed slope
911	1 City GIS received on May 29, 2020	Corrected and filled missing inlet ID for WWSMP 2020	Corrected and filled missing outlet ID for WWSMP 2020	City GIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed slope
9112	2 City GIS received on May 29, 2020	Dummy node created for missing inlet for WWSMP 2020	Corrected and filled missing outlet ID for WWSMP 2020	City GIS received on May 29, 2020	Computed length	Engineering judgment for WWSMP 2020	City GIS received on May 29, 2020	Computed slope
9113	3 City GIS received on May 29, 2020	Corrected and filled missing inlet ID for WWSMP 2020	Corrected and filled missing outlet ID for WWSMP 2020	City GIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed slope
9114	4 City GIS received on May 29, 2020	Corrected and filled missing inlet ID for WWSMP 2020	Corrected and filled missing outlet ID for WWSMP 2020	City GIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed slope
9115	5 City GIS received on May 29, 2020	Corrected and filled missing inlet ID for WWSMP 2020	Corrected and filled missing outlet ID for WWSMP 2020	City GIS received on May 29, 2020	Computed length	Engineering judgment for WWSMP 2020	City GIS received on May 29, 2020	Computed slope
9116	6 City GIS received on May 29, 2020	Corrected and filled missing inlet ID for WWSMP 2020	Corrected and filled missing outlet ID for WWSMP 2020	City GIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed slope
9117	7 City GIS received on May 29, 2020	Corrected and filled missing inlet ID for WWSMP 2020	Corrected and filled missing outlet ID for WWSMP 2020	City GIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed slope
9118	8 City GIS received on May 29, 2020	Corrected and filled missing inlet ID for WWSMP 2020	Corrected and filled missing outlet ID for WWSMP 2020	City GIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed slope
9119	9 City GIS received on May 29, 2020	Corrected and filled missing inlet ID for WWSMP 2020	Corrected and filled missing outlet ID for WWSMP 2020	City GIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed slope
9120	0 City GIS received on May 29, 2020	Corrected and filled missing inlet ID for WWSMP 2020	Corrected and filled missing outlet ID for WWSMP 2020	City GIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed slope
9121	1 City GIS received on May 29. 2020	Corrected and filled missing inlet ID for WWSMP 2020	Corrected and filled missing outlet ID for WWSMP 2020	City GIS received on May 29, 2020	Computed length	Engineering judgment for WWSMP 2020	City GIS received on May 29, 2020	Computed slope
912	2 City GIS received on May 29, 2020	Corrected and filled missing inlet ID for WWSMP 2020	Corrected and filled missing outlet ID for WWSMP 2020	City GIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed slope
0122	3 City GIS received on May 29, 2020	Corrected and filled missing inlet ID for WWSMP 2020	Corrected and filled missing outlet ID for WWSMP 2020	City GIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed slope
912	4 City CIS received on May 29, 2020	Dummy node created for missing inlet for WWSMP 2020	Corrected and filled missing outlet ID for WWSMP 2020	City CIS received on May 29, 2020	Computed length	City CIS received on May 29, 2020	City GIS received on May 29, 2020	Computed slope
912	E City CIS received on May 29, 2020	Corrected and filled missing inlet ID for WWSMF 2020	Corrected and filled missing outlet ID for WWSMF 2020	City CIS received on May 29, 2020	Computed length	City CIS received on May 29, 2020	City CIS received on May 29, 2020	
912	City CIS received on May 29, 2020	Corrected and filled missing inlet ID for WWSMP 2020	Corrected and filled missing outlet ID for WWSMP 2020	City GIS received on May 29, 2020	Computed length	City CIS received on May 29, 2020	City CIS received on May 29, 2020	
9126	6 City GIS received on May 29, 2020	Corrected and filled missing inlet ID for WWSMP 2020	Corrected and filled missing outlet ID for WWSMP 2020	City GIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed slope
912	7 City GIS received on May 29, 2020	Corrected and filled missing inlet ID for WWSMP 2020	Corrected and filled missing outlet ID for WWSMP 2020	City GIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed slope
9128	8 City GIS received on May 29, 2020	Corrected and filled missing inlet ID for WWSMP 2020	Corrected and filled missing outlet ID for WWSMP 2020	City GIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed slope
9129	9 City GIS received on May 29, 2020	Corrected and filled missing inlet ID for WWSMP 2020	Corrected and filled missing outlet ID for WWSMP 2020	City GIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed slope
9130	0 City GIS received on May 29, 2020	Corrected and filled missing inlet ID for WWSMP 2020	Corrected and filled missing outlet ID for WWSMP 2020	City GIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed slope
9131	1 City GIS received on May 29, 2020	Corrected and filled missing inlet ID for WWSMP 2020	Corrected and filled missing outlet ID for WWSMP 2020	City GIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed slope
9132	2 City GIS received on May 29, 2020	Corrected and filled missing inlet ID for WWSMP 2020	Corrected and filled missing outlet ID for WWSMP 2020	City GIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed slope
					-		- ,	
9133	3 City GIS received on May 29, 2020	Corrected and filled missing inlet ID for WWSMP 2020	Corrected and filled missing outlet ID for WWSMP 2020	City GIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed slope
9133 9134 9134	3 City GIS received on May 29, 2020 4 City GIS received on May 29, 2020	Corrected and filled missing inlet ID for WWSMP 2020 Corrected and filled missing inlet ID for WWSMP 2020	Corrected and filled missing outlet ID for WWSMP 2020 Corrected and filled missing outlet ID for WWSMP 2020	City GIS received on May 29, 2020 City GIS received on May 29, 2020	Computed length Computed length	City GIS received on May 29, 2020 City GIS received on May 29, 2020	City GIS received on May 29, 2020 City GIS received on May 29, 2020	Computed slope Computed slope
9133 9134 9135	3 City GIS received on May 29, 2020 4 City GIS received on May 29, 2020 5 City GIS received on May 29, 2020	Corrected and filled missing inlet ID for WWSMP 2020 Corrected and filled missing inlet ID for WWSMP 2020 Corrected and filled missing inlet ID for WWSMP 2020	Corrected and filled missing outlet ID for WWSMP 2020 Corrected and filled missing outlet ID for WWSMP 2020 Corrected and filled missing outlet ID for WWSMP 2020	City GIS received on May 29, 2020 City GIS received on May 29, 2020 City GIS received on May 29, 2020	Computed length Computed length Computed length	City GIS received on May 29, 2020 City GIS received on May 29, 2020 City GIS received on May 29, 2020	City GIS received on May 29, 2020 City GIS received on May 29, 2020 City GIS received on May 29, 2020	Computed slope Computed slope Computed slope
9133 9134 9135 9135 9136	 3 City GIS received on May 29, 2020 4 City GIS received on May 29, 2020 5 City GIS received on May 29, 2020 6 City GIS received on May 29, 2020 	Corrected and filled missing inlet ID for WWSMP 2020 Corrected and filled missing inlet ID for WWSMP 2020 Corrected and filled missing inlet ID for WWSMP 2020 Corrected and filled missing inlet ID for WWSMP 2020	Corrected and filled missing outlet ID for WWSMP 2020 Corrected and filled missing outlet ID for WWSMP 2020 Corrected and filled missing outlet ID for WWSMP 2020 Corrected and filled missing outlet ID for WWSMP 2020	City GIS received on May 29, 2020 City GIS received on May 29, 2020 City GIS received on May 29, 2020 City GIS received on May 29, 2020	Computed length Computed length Computed length Computed length	City GIS received on May 29, 2020 City GIS received on May 29, 2020 City GIS received on May 29, 2020 City GIS received on May 29, 2020	City GIS received on May 29, 2020 City GIS received on May 29, 2020 City GIS received on May 29, 2020 City GIS received on May 29, 2020	Computed slope Computed slope Computed slope Computed slope
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9133 9134 9135 9136 9136 9137 9138 9138 9139	 3 City GIS received on May 29, 2020 4 City GIS received on May 29, 2020 5 City GIS received on May 29, 2020 6 City GIS received on May 29, 2020 7 City GIS received on May 29, 2020 8 City GIS received on May 29, 2020 9 City GIS received on May 29, 2020 0 City GIS received on May 29, 2020 	Corrected and filled missing inlet ID for WWSMP 2020 Corrected and filled missing inlet ID for WWSMP 2020	Corrected and filled missing outlet ID for WWSMP 2020 Corrected and filled missing outlet ID for WWSMP 2020	City GIS received on May 29, 2020 City GIS received on May 29, 2020	Computed length Computed length Computed length Computed length Computed length Computed length Computed length Computed length	City GIS received on May 29, 2020 City GIS received on May 29, 2020	City GIS received on May 29, 2020 City GIS received on May 29, 2020	Computed slope Computed slope Computed slope Computed slope Computed slope Computed slope Computed slope Computed slope
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9133 9134 9135 9136 9137 9138 9138 9138 9138 9138 9138 9138 9149 9149 9144 9144 9144 9144 9144 914	 3 City GIS received on May 29, 2020 4 City GIS received on May 29, 2020 5 City GIS received on May 29, 2020 6 City GIS received on May 29, 2020 7 City GIS received on May 29, 2020 8 City GIS received on May 29, 2020 9 City GIS received on May 29, 2020 9 City GIS received on May 29, 2020 1 City GIS received on May 29, 2020 2 City GIS received on May 29, 2020 3 City GIS received on May 29, 2020 4 City GIS received on May 29, 2020 6 City GIS received on May 29, 2020 6 City GIS received on May 29, 2020 7 City GIS received on May 29, 2020 8 City GIS received on May 29, 2020 9 City GIS received on May 29, 2020 9 City GIS received on May 29, 2020 1 City GIS received on May 29, 2020 2 City GIS received on May 29, 2020 2 City GIS received on May 29, 2020 3 City GIS received on May 29, 2020 4 City GIS received on May 29, 2020 5 City GIS received on May 29, 2020 6 City GIS received on May 29, 2020 9 City GIS received on May 29, 2020 1 City GIS received on May 29, 2020 2 City GIS received on May 29, 2020 2 City GIS received on May 29, 2020 3 City GIS received on May 29, 2020 4 City GIS received on May 29, 2020 5 City GIS received on May 29, 2020 4 City GIS received on May 29, 2020 5 City GIS received on May 29, 2020 5 City GIS received on May 29, 2020 5 City GIS received on May 29, 2020 6 City GIS r	Corrected and filled missing inlet ID for WWSMP 2020 Corrected and filled missing inl	Corrected and filled missing outlet ID for WWSMP 2020 Corrected and filled missing outlet ID for WWSMP	City GIS received on May 29, 2020City GIS received on May 29, 2020 <td>Computed length Computed length</td> <td>City GIS received on May 29, 2020 City GIS receive</td> <td>City GIS received on May 29, 2020 City GIS receive</td> <td>Computed slope Computed slope Comput</td>	Computed length Computed length	City GIS received on May 29, 2020 City GIS receive	City GIS received on May 29, 2020 City GIS receive	Computed slope Comput
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9133 9134 9135 9136 9137 9138 9138 9138 9138 9138 9138 9140 9144 9144 9144 9144 9144 9144 9144	3 City GIS received on May 29, 2020 4 City GIS received on May 29, 2020 5 City GIS received on May 29, 2020 6 City GIS received on May 29, 2020 7 City GIS received on May 29, 2020 8 City GIS received on May 29, 2020 9 City GIS received on May 29, 2020 9 City GIS received on May 29, 2020 1 City GIS received on May 29, 2020 2 City GIS received on May 29, 2020 3 City GIS received on May 29, 2020 2 City GIS received on May 29, 2020 3 City GIS received on May 29, 2020 4 City GIS received on May 29, 2020 5 City GIS received on May 29, 2020 6 City GIS received on May 29, 2020 7 City GIS received on May 29, 2020 8 City GIS received on May 29, 2020 9 City GIS received on May 29, 2020 1 City GIS received on May 29, 2020 2 City GIS received on May 29, 2020 5 City GIS received on May 29, 2020 6 City GIS received on May 29, 2020 7 City GIS received on May 29, 2020	Corrected and filled missing inlet ID for WWSMP 2020 Corrected and filled missing inlet ID for WWSMP 2020 Corrected and filled missing inlet ID for WWSMP 2020 Corrected and filled missing inlet ID for WWSMP 2020 Corrected and filled missing inlet ID for WWSMP 2020 Corrected and filled missing inlet ID for WWSMP 2020 Corrected and filled missing inlet ID for WWSMP 2020 Corrected and filled missing inlet ID for WWSMP 2020 Corrected and filled missing inlet ID for WWSMP 2020 Corrected and filled missing inlet ID for WWSMP 2020 Corrected and filled missing inlet ID for WWSMP 2020 Corrected and filled missing inlet ID for WWSMP 2020 Corrected and filled missing inlet ID for WWSMP 2020 Corrected and filled missing inlet ID for WWSMP 2020 Corrected and filled missing inlet ID for WWSMP 2020 Corrected and filled missing inlet ID for WWSMP 2020 Corrected and filled missing inlet ID for WWSMP 2020 Corrected and filled missing inlet ID for WWSMP 2020 Corrected and filled missing inlet ID for WWSMP 2020 Corrected and filled missing inlet ID for WWSMP 2020 Corrected and filled missing inlet ID for WWSMP 2020 Corrected and filled missing inlet ID for WWSMP 2020 Corrected and filled missing inlet ID for WWSMP 2020 <td>Corrected and filled missing outlet ID for WWSMP 2020 Corrected and filled missing outlet ID for WWSMP</td> <td>City GIS received on May 29, 2020City GIS received on May 29, 2020<td>Computed length Computed length</td><td>City GIS received on May 29, 2020City GIS received on May 29, 2020<td>City GIS received on May 29, 2020 City GIS receive</td><td>Computed slopeComputed slope</td></td></td>	Corrected and filled missing outlet ID for WWSMP 2020 Corrected and filled missing outlet ID for WWSMP	City GIS received on May 29, 2020City GIS received on May 29, 2020 <td>Computed length Computed length</td> <td>City GIS received on May 29, 2020City GIS received on May 29, 2020<td>City GIS received on May 29, 2020 City GIS receive</td><td>Computed slopeComputed slope</td></td>	Computed length Computed length	City GIS received on May 29, 2020City GIS received on May 29, 2020 <td>City GIS received on May 29, 2020 City GIS receive</td> <td>Computed slopeComputed slope</td>	City GIS received on May 29, 2020 City GIS receive	Computed slopeComputed slope

			DIAMETER SOURCE			DOWNINVERT SOURCE	
DODE City CIS received on May 20, 2020	INLET_ID_SOURCE	Corrected and filled missing outlet ID for M/MCMD 2020	City CIS received on May 20, 2020	Computed langth	City CIS received on May 20, 2020	City CIS received on May 20, 2020	
	Corrected and filled missing inlet ID for WWSMP 2020	Corrected and filled missing outlet ID for WWSMP 2020	City GIS received on May 29, 2020		City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed slope
	Corrected and filled missing inlet ID for WWSMP 2020	Corrected and filled missing outlet ID for WWSMP 2020	City GIS received on May 29, 2020		City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed slope
9237 City GIS received on May 29, 2020	Corrected and filled missing inlet ID for WWSMP 2020	Corrected and filled missing outlet ID for WWSMP 2020	City GIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed slope
9238 City GIS received on May 29, 2020	Corrected and filled missing inlet ID for WWSMP 2020	Corrected and filled missing outlet ID for WWSMP 2020	City GIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed slope
9239 City GIS received on May 29, 2020	Corrected and filled missing inlet ID for WWSMP 2020	Dummy node created for missing outlet for WWSMP 2020	City GIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed slope
9240 City GIS received on May 29, 2020	Corrected and filled missing inlet ID for WWSMP 2020	Corrected and filled missing outlet ID for WWSMP 2020	City GIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed slope
9241 City GIS received on May 29, 2020	Corrected and filled missing inlet ID for WWSMP 2020	Corrected and filled missing outlet ID for WWSMP 2020	City GIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed slope
9242 City GIS received on May 29, 2020	Corrected and filled missing inlet ID for WWSMP 2020	Corrected and filled missing outlet ID for WWSMP 2020	City GIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed slope
9243 City GIS received on May 29, 2020	Dummy node created for missing inlet for WWSMP 2020	Corrected and filled missing outlet ID for WWSMP 2020	City GIS received on May 29, 2020	Computed length	Engineering judgment for WWSMP 2020	Engineering judgment for WWSMP 2020	Computed slope
9244 City GIS received on May 29, 2020	Corrected and filled missing inlet ID for WWSMP 2020	Corrected and filled missing outlet ID for WWSMP 2020	City GIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed slope
9245 City GIS received on May 29, 2020	Corrected and filled missing inlet ID for WWSMP 2020	Corrected and filled missing outlet ID for WWSMP 2020	City GIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	CN# 2-1614 Drawings	Computed slope
9246 City GIS received on May 29, 2020	Corrected and filled missing inlet ID for WWSMP 2020	Corrected and filled missing outlet ID for WWSMP 2020	City GIS received on May 29, 2020	Computed length	Drawings	City GIS received on May 29, 2020	Computed slope
9247 City GIS received on May 29, 2020	Corrected and filled missing inlet ID for WWSMP 2020	Corrected and filled missing outlet ID for WWSMP 2020	City GIS received on May 29, 2020	Computed length	CN# 2-1614 Drawings	City GIS received on May 29, 2020	Computed slope
9248 City GIS received on May 29, 2020	Corrected and filled missing inlet ID for WWSMP 2020	Corrected and filled missing outlet ID for WWSMP 2020	City GIS received on May 29, 2020	Computed length	Drawings	Drawings	Computed slope
9249 City GIS received on May 29, 2020	Corrected and filled missing inlet ID for WWSMP 2020	Corrected and filled missing outlet ID for WWSMP 2020	City GIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	Engineering judgment for WWSMP 2020	Computed slope
9250 City GIS received on May 29, 2020	Dummy node created for missing inlet for WWSMP 2020	Corrected and filled missing outlet ID for WWSMP 2020	City GIS received on May 29, 2020	Computed length	Engineering judgment for WWSMP 2020	City GIS received on May 29, 2020	Computed slope
9251 City GIS received on May 29, 2020	Corrected and filled missing inlet ID for WWSMP 2020	Corrected and filled missing outlet ID for WWSMP 2020	City GIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	Drawings	Computed slope
9252 City GIS received on May 29, 2020	Corrected and filled missing inlet ID for WWSMP 2020	Corrected and filled missing outlet ID for WWSMP 2020	City GIS received on May 29, 2020	Computed length	CN# 2-1614 Drawings	CN# 2-1614 Drawings	Computed slope
9253 City GIS received on May 29, 2020	Corrected and filled missing inlet ID for WWSMP 2020	Corrected and filled missing outlet ID for WWSMP 2020	City GIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	Engineering judgment for WWSMP 2020	Computed slope
9254 City GIS received on May 29, 2020	Dummy node created for missing inlet for WWSMP 2020	Corrected and filled missing outlet ID for WWSMP 2020	City GIS received on May 29, 2020	Computed length	Engineering judgment for WWSMP 2020	Engineering judgment for WWSMP 2020	Computed slope
9255 City GIS received on May 29, 2020	Dummy node created for missing inlet for WWSMP 2020	Corrected and filled missing outlet ID for WWSMP 2020	City GIS received on May 29, 2020	Computed length	Engineering judgment for WWSMP 2020	Engineering judgment for WWSMP 2020	Computed slope
9256 City GIS received on May 29, 2020	Corrected and filled missing inlet ID for WWSMP 2020	Corrected and filled missing outlet ID for WWSMP 2020	City GIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed slope
9258 City GIS received on May 29, 2020	Corrected and filled missing inlet ID for WWSMP 2020	Corrected and filled missing outlet ID for WWSMP 2020	City GIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed slope
9264 City GIS received on May 29, 2020	Corrected and filled missing inlet ID for WWSMP 2020	Corrected and filled missing outlet ID for WWSMP 2020	City GIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed slope
9265 City GIS received on May 29, 2020	Corrected and filled missing inlet ID for WWSMP 2020	Corrected and filled missing outlet ID for WWSMP 2020	City GIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed slope
9266 City GIS received on May 29, 2020	Corrected and filled missing inlet ID for WWSMP 2020	Corrected and filled missing outlet ID for WWSMP 2020	City GIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	Engineering judgment for WWSMP 2020	Computed slope
9267 City GIS received on May 29, 2020	Corrected and filled missing inlet ID for WWSMP 2020	Corrected and filled missing outlet ID for WWSMP 2020	City GIS received on May 29, 2020	Computed length	Engineering judgment for WWSMP 2020	Engineering judgment for WWSMP 2020	Computed slope
9268 City CIS received on May 29, 2020	Corrected and filled missing inlet ID for WWSMR 2020	Corrected and filled missing outlet ID for WWSMP 2020	City CIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed slope
9260 City CIS received on May 29, 2020	Corrected and filled missing inlet ID for WWSMP 2020	Corrected and filled missing outlet ID for WWSMP 2020	City CIS received on May 29, 2020	Computed length	City CIS received on May 29, 2020	City CIS received on May 29, 2020	
 9209 City CIS received on May 29, 2020	Corrected and filled missing inlet ID for WWSMP 2020	Corrected and filled missing outlet ID for WWSMF 2020	City CIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	City CIS received on May 29, 2020	
9270 City GIS received on May 29, 2020	Corrected and filled missing inlet ID for WWSMP 2020	Corrected and filled missing outlet ID for WWSMP 2020	City GIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed slope
9271 City GIS received on May 29, 2020	Corrected and filled missing inlet ID for WWSMP 2020	Corrected and filled missing outlet ID for WWSMP 2020	City GIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed slope
 9272 City GIS received on May 29, 2020	Corrected and filled missing inlet ID for WWSMP 2020	Corrected and filled missing outlet ID for WWSMP 2020	City GIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed slope
 92/3 City GIS received on May 29, 2020	Corrected and filled missing inlet ID for WWSMP 2020	Corrected and filled missing outlet ID for WWSMP 2020	City GIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed slope
 9274 City GIS received on May 29, 2020	Corrected and filled missing inlet ID for WWSMP 2020	Corrected and filled missing outlet ID for WWSMP 2020	City GIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed slope
9275 City GIS received on May 29, 2020	Corrected and filled missing inlet ID for WWSMP 2020	Corrected and filled missing outlet ID for WWSMP 2020	City GIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed slope
9276 City GIS received on May 29, 2020	Corrected and filled missing inlet ID for WWSMP 2020	Corrected and filled missing outlet ID for WWSMP 2020	City GIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed slope
9277 City GIS received on May 29, 2020	Corrected and filled missing inlet ID for WWSMP 2020	Corrected and filled missing outlet ID for WWSMP 2020	City GIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed slope
 9278 City GIS received on May 29, 2020	Corrected and filled missing inlet ID for WWSMP 2020	Corrected and filled missing outlet ID for WWSMP 2020	City GIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed slope
9279 City GIS received on May 29, 2020	Corrected and filled missing inlet ID for WWSMP 2020	Corrected and filled missing outlet ID for WWSMP 2020	City GIS received on May 29, 2020	Computed length	Engineering judgment for WWSMP 2020	City GIS received on May 29, 2020	Computed slope
9280 City GIS received on May 29, 2020	Corrected and filled missing inlet ID for WWSMP 2020	Corrected and filled missing outlet ID for WWSMP 2020	City GIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed slope
9281 City GIS received on May 29, 2020	Corrected and filled missing inlet ID for WWSMP 2020	Dummy node created for missing outlet for WWSMP 2020	City GIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed slope
9282 City GIS received on May 29, 2020	Corrected and filled missing inlet ID for WWSMP 2020	Dummy node created for missing outlet for WWSMP 2020	City GIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed slope
9283 City GIS received on May 29, 2020	Corrected and filled missing inlet ID for WWSMP 2020	Dummy node created for missing outlet for WWSMP 2020	City GIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed slope
9284 City GIS received on May 29, 2020	Corrected and filled missing inlet ID for WWSMP 2020	Corrected and filled missing outlet ID for WWSMP 2020	City GIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed slope
9285 City GIS received on May 29, 2020	Corrected and filled missing inlet ID for WWSMP 2020	Corrected and filled missing outlet ID for WWSMP 2020	City GIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed slope
9286 City GIS received on May 29, 2020	Corrected and filled missing inlet ID for WWSMP 2020	Corrected and filled missing outlet ID for WWSMP 2020	City GIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed slope
9287 City GIS received on May 29, 2020	Corrected and filled missing inlet ID for WWSMP 2020	Corrected and filled missing outlet ID for WWSMP 2020	City GIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed slope
9288 City GIS received on May 29, 2020	Corrected and filled missing inlet ID for WWSMP 2020	Corrected and filled missing outlet ID for WWSMP 2020	City GIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed slope
9289 City GIS received on May 29, 2020	Corrected and filled missing inlet ID for WWSMP 2020	Corrected and filled missing outlet ID for WWSMP 2020	City GIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed slope
9292 City GIS received on May 29, 2020	Dummy node created for missing inlet for WWSMP 2020	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed length	Engineering judgment for WWSMP 2020	City GIS received on May 29, 2020	Computed slope
9302 City GIS received on May 29, 2020	City GIS received on May 29, 2020	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed length	2013 DC Study Model	City GIS received on May 29, 2020	Computed slope
9307 City GIS received on May 29, 2020	City GIS received on May 29, 2020	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed length	Engineering judgment for WWSMP 2020	Engineering judgment for WWSMP 2020	Computed slope
9309 City GIS received on May 29, 2020	Corrected and filled missing inlet ID for WWSMP 2020	Corrected and filled missing outlet ID for WWSMP 2020	City GIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed slope
9310 City GIS received on May 29, 2020	Dummy node created for missing inlet for WWSMP 2020	Corrected and filled missing outlet ID for WWSMP 2020	Engineering judgment for WWSMP 2020	Computed length	Engineering judgment for WWSMP 2020	Engineering judgment for WWSMP 2020	Computed slope
9311 City GIS received on May 29, 2020	Corrected and filled missing inlet ID for WWSMP 2020	Corrected and filled missing outlet ID for WWSMP 2020	City GIS received on May 29. 2020	Computed length	City GIS received on May 29. 2020	City GIS received on May 29. 2020	Computed slope
9312 City GIS received on May 29, 2020	Corrected and filled missing inlet ID for WWSMP 2020	Corrected and filled missing outlet ID for WWSMP 2020	City GIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed slope
9317 City GIS received on May 29, 2020	Corrected and filled missing inlet ID for WWSMP 2020	Corrected and filled missing outlet ID for WWSMP 2020	City GIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed slope
9318 City GIS received on May 29, 2020	Corrected and filled missing inlet ID for WWSMP 2020	Corrected and filled missing outlet ID for WWSMP 2020	City GIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed slope
9319 City GIS received on May 29, 2020	Dummy node created for missing inlet for WWSMP 2020	Corrected and filled missing outlet ID for WWSMP 2020	City GIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed slope
9320 City GIS received on May 29, 2020	Corrected and filled missing inlet ID for WWSMP 2020	Corrected and filled missing outlet ID for WWSMP 2020	City GIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed slope
9321 City GIS received on May 29, 2020	Corrected and filled missing inlet ID for WWSMP 2020	Corrected and filled missing outlet ID for WWSMP 2020	City GIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed slope
9322 City GIS received on May 29, 2020	Corrected and filled missing inlet ID for WWSIM 2020	Corrected and filled missing outlet ID for WWSMP 2020	City GIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	City GIS received on May 29, 2020	
9322 City GIS received on May 29, 2020	Corrected and filled missing inlet ID for WWSMP 2020	Corrected and filled missing outlet ID for WWSMP 2020	City CIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	City GIS received on May 29, 2020	
9323 City CIS received on May 29, 2020	Corrected and filled missing inlet ID for WWSMP 2020	Corrected and filled missing outlet ID for WWSMF 2020	City CIS received on May 29, 2020		City CIS received on May 29, 2020	City CIS received on May 29, 2020	
	Dummy pode groated for missing inlet for WWOMP 2020	Corrected and filled missing outlet ID for WWSMP 2020	City CIS received on May 29, 2020		City CIS received on May 29, 2020	City CIS received on May 29, 2020	Computed slope
	Corrected and filled missing inlet for WWSMP 2020	Corrected and filled missing outlet ID for WWSMP 2020	City CIS received on May 29, 2020		City CIS received on May 29, 2020	City CIS received on May 29, 2020	Computed slope
	Corrected and filled missing inlet ID for WWSMP 2020	Corrected and filled missing outlet ID for WWSMP 2020			City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed slope
 9327 City GIS received on May 29, 2020	Corrected and filled missing inlet ID for WWSMP 2020	Corrected and filled missing outlet ID for WWSMP 2020	City Gis received on May 29, 2020	Computed length	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed slope
 9328 City GIS received on May 29, 2020	Corrected and filled missing inlet ID for WWSMP 2020	Corrected and filled missing outlet ID for WWSMP 2020	City GIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed slope
 9329 City GIS received on May 29, 2020	Corrected and filled missing inlet ID for WWSMP 2020	Corrected and filled missing outlet ID for WWSMP 2020	City GIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed slope
 9330 City GIS received on May 29, 2020	Corrected and filled missing inlet ID for WWSMP 2020	Corrected and filled missing outlet ID for WWSMP 2020	City GIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed slope
 9331 City GIS received on May 29, 2020	Corrected and filled missing inlet ID for WWSMP 2020	Corrected and filled missing outlet ID for WWSMP 2020	City GIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed slope
 9332 City GIS received on May 29, 2020	Dummy node created for missing inlet for WWSMP 2020	Corrected and filled missing outlet ID for WWSMP 2020	City GIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed slope
 9333 City GIS received on May 29, 2020	Corrected and filled missing inlet ID for WWSMP 2020	Corrected and filled missing outlet ID for WWSMP 2020	City GIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed slope
9334 City GIS received on May 29, 2020	Corrected and filled missing inlet ID for WWSMP 2020	Corrected and filled missing outlet ID for WWSMP 2020	City GIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed slope
9335 City GIS received on May 29, 2020	Corrected and filled missing inlet ID for WWSMP 2020	Corrected and filled missing outlet ID for WWSMP 2020	City GIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed slope
9336 City GIS received on May 29, 2020	Corrected and filled missing inlet ID for WWSMP 2020	Corrected and filled missing outlet ID for WWSMP 2020	City GIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed slope
9337 City GIS received on May 29, 2020	Corrected and filled missing inlet ID for WWSMP 2020	Corrected and filled missing outlet ID for WWSMP 2020	City GIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed slope

				LENGTH_SOURCE			SLOPE_SOURCE
9338 City GIS received on May 29, 2020	City GIS received on May 29, 2020	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed length	Engineering judgment for WWSMP 2020	City GIS received on May 29, 2020	Computed slope
9339 City GIS received on May 29, 2020	Corrected and filled missing inlet ID for WWSMP 2020	Corrected and filled missing outlet ID for WWSMP 2020	City GIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed slope
9340 City GIS received on May 29, 2020	Corrected and filled missing inlet ID for WWSMP 2020	Corrected and filled missing outlet ID for WWSMP 2020	City GIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed slope
9341 City GIS received on May 29, 2020	Corrected and filled missing inlet ID for WWSMP 2020	Corrected and filled missing outlet ID for WWSMP 2020	City GIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed slope
9342 City GIS received on May 29, 2020	Corrected and filled missing inlet ID for WWSMP 2020	Corrected and filled missing outlet ID for WWSMP 2020	City GIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed slope
9343 City GIS received on May 29, 2020	Corrected and filled missing inlet ID for WWSMP 2020	Corrected and filled missing outlet ID for WWSMP 2020	City GIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed slope
9344 City GIS received on May 29, 2020	Corrected and filled missing inlet ID for WWSMP 2020	Corrected and filled missing outlet ID for WWSMP 2020	City GIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed slope
9345 City GIS received on May 29, 2020	Corrected and filled missing inlet ID for WWSMP 2020	Corrected and filled missing outlet ID for WWSMP 2020	City GIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed slope
9346 City GIS received on May 29, 2020	Corrected and filled missing inlet ID for WWSMP 2020	Corrected and filled missing outlet ID for WWSMP 2020	City GIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed slope
9340 City CIS received on May 29, 2020	Corrected and filled missing inlet ID for WWGMP 2020	Corrected and filled missing outlet ID for WWSMP 2020	City CIS received on May 29, 2020		City CIS received on May 29, 2020	City CIS received on May 29, 2020	
	Corrected and fined missing inter in the King WIMOND 2020	Corrected and filled missing outlet ID for WWSINF 2020	City CIS received on May 29, 2020			City CIS received on May 29, 2020	
 9348 City GIS received on May 29, 2020	Dummy node created for missing inlet for WWSMP 2020	Corrected and filled missing outlet ID for WWSIMP 2020	City GIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed slope
 9349 City GIS received on May 29, 2020	Dummy node created for missing inlet for WWSMP 2020	Corrected and filled missing outlet ID for WWSMP 2020	City GIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed slope
9350 City GIS received on May 29, 2020	Corrected and filled missing inlet ID for WWSMP 2020	Corrected and filled missing outlet ID for WWSMP 2020	City GIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed slope
9351 City GIS received on May 29, 2020	Corrected and filled missing inlet ID for WWSMP 2020	Corrected and filled missing outlet ID for WWSMP 2020	City GIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed slope
9352 City GIS received on May 29, 2020	Dummy node created for missing inlet for WWSMP 2020	Corrected and filled missing outlet ID for WWSMP 2020	City GIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed slope
9353 City GIS received on May 29, 2020	Corrected and filled missing inlet ID for WWSMP 2020	Corrected and filled missing outlet ID for WWSMP 2020	City GIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed slope
9354 City GIS received on May 29, 2020	Corrected and filled missing inlet ID for WWSMP 2020	Corrected and filled missing outlet ID for WWSMP 2020	City GIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed slope
9355 City GIS received on May 29, 2020	Corrected and filled missing inlet ID for WWSMP 2020	Corrected and filled missing outlet ID for WWSMP 2020	City GIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed slope
9356 City GIS received on May 29, 2020	Dummy node created for missing inlet for WWSMP 2020	Corrected and filled missing outlet ID for WWSMP 2020	City GIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed slope
9357 City GIS received on May 29, 2020	Corrected and filled missing inlet ID for WWSMP 2020	Corrected and filled missing outlet ID for WWSMP 2020	City GIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed slope
9358 City GIS received on May 29, 2020	Corrected and filled missing inlet ID for WWSMP 2020	Corrected and filled missing outlet ID for WWSMP 2020	City GIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed slope
9359 City GIS received on May 29, 2020	Corrected and filled missing inlet ID for WWSMP 2020	Corrected and filled missing outlet ID for WWSMP 2020	City GIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed slope
9360 City GIS received on May 29, 2020	Dummy node created for missing inlet for WWSMP 2020	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed slope
9364 City GIS received on May 29, 2020	Dummy node created for missing inlet for WWSMP 2020	Corrected and filled missing outlet ID for WWSMP 2020	City GIS received on May 29, 2020	Computed length	Engineering judgment for WWSMP 2020	Engineering judgment for WWSMP 2020	Computed slope
9365 City GIS received on May 29, 2020	Corrected and filled missing inlet ID for WWSMP 2020	Corrected and filled missing outlet ID for WWSMP 2020	City GIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed slope
9366 City GIS received on May 29, 2020	Corrected and filled missing inlet ID for WWSMP 2020	Corrected and filled missing outlet ID for WWSMP 2020	City GIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed slope
9367 City GIS received on May 29, 2020	Corrected and filled missing inlet ID for WWSMP 2020	Corrected and filled missing outlet ID for WWSMP 2020	City GIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed slope
9369 City CIS received on May 29, 2020	Corrected and filled missing inlet ID for WWSMP 2020	Corrected and filled missing outlet ID for WWSMP 2020	City CIS received on May 29, 2020		City CIS received on May 20, 2020	City CIS received on May 29, 2020	
9388 City GIS received on May 29, 2020	Dummu node exected for missing inlet for WWSMP 2020	Confected and filled missing outlet ID for WWSINF 2020	City CIS received on May 29, 2020		Engineering judgment for WINCMD 2020	City CIS received on May 29, 2020	
9371 City GIS received on May 29, 2020	Durning hode created for missing inlet for WWSMP 2020	City GIS received on May 29, 2020	City GIS received on May 29, 2020		Engineering judgment for WWSMP 2020	City GIS received on May 29, 2020	
9373 City GIS received on May 29, 2020	Dummy node created for missing inlet for WWSMP 2020	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed length	Engineering judgment for WWSMP 2020	City GIS received on May 29, 2020	Computed slope
9374 City GIS received on May 29, 2020	Dummy node created for missing inlet for WWSMP 2020	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed length	Engineering judgment for WWSMP 2020	City GIS received on May 29, 2020	Computed slope
9385 City GIS received on May 29, 2020	Dummy node created for missing inlet for WWSMP 2020	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed slope
 9387 City GIS received on May 29, 2020	Dummy node created for missing inlet for WWSMP 2020	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed length	Engineering judgment for WWSMP 2020	City GIS received on May 29, 2020	Computed slope
9419 City GIS received on May 29, 2020	Dummy node created for missing inlet for WWSMP 2020	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed slope
9424 City GIS received on May 29, 2020	Corrected and filled missing inlet ID for WWSMP 2020	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed slope
9433 City GIS received on May 29, 2020	City GIS received on May 29, 2020	Dummy node created for missing outlet for WWSMP 2020	City GIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed slope
9448 City GIS received on May 29, 2020	Corrected and filled missing inlet ID for WWSMP 2020	Corrected and filled missing outlet ID for WWSMP 2020	City GIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed slope
9449 City GIS received on May 29, 2020	Corrected and filled missing inlet ID for WWSMP 2020	Corrected and filled missing outlet ID for WWSMP 2020	City GIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed slope
9450 City GIS received on May 29, 2020	Corrected and filled missing inlet ID for WWSMP 2020	Corrected and filled missing outlet ID for WWSMP 2020	City GIS received on May 29, 2020	Computed length	Engineering judgment for WWSMP 2020	Engineering judgment for WWSMP 2020	Computed slope
9451 City GIS received on May 29, 2020	Corrected and filled missing inlet ID for WWSMP 2020	Corrected and filled missing outlet ID for WWSMP 2020	City GIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed slope
9457 City GIS received on May 29, 2020	Dummy node created for missing inlet for WWSMP 2020	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed length	Engineering judgment for WWSMP 2020	City GIS received on May 29, 2020	Computed slope
9458 City GIS received on May 29, 2020	Corrected and filled missing inlet ID for WWSMP 2020	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed length	Engineering judgment for WWSMP 2020	Engineering judgment for WWSMP 2020	Computed slope
9459 City GIS received on May 29, 2020	City GIS received on May 29, 2020	City GIS received on May 29, 2020	CN# 2-1723 Drawings	Computed length	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed slope
9464 City CIS received on May 29, 2020	Dummy node created for missing inlet for W/WSMP 2020	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed length	Engineering judgment for WWSMP 2020	Engineering judgment for WWSMP 2020	Computed slope
9467 City CIS received on May 29, 2020	Dummy node created for missing inlet for WWSMP 2020	City CIS received on May 29, 2020	City CIS received on May 29, 2020		Engineering judgment for WWSMR 2020	Engineering judgment for WWSMP 2020	Computed slope
9487 City GIS received on May 29, 2020	Dummy node created for missing inlet for WWSMP 2020	Corrected and filled missing outlet ID for WWSMP 2020	Northorn Heighte SPS Drowinge	Computed length	Northorn Heighte SPS Drowings	Northern Heighte SPS Drewings	
9470 City GIS received on May 29, 2020	Durning hode created for missing met for WWSMP 2020	Corrected and filled missing outlet ID for WWSIMP 2020	Northern Heights SPS Drawings		Northern Heights SPS Drawings	Northern Heights SPS Drawings	
9471 City GIS received on May 29, 2020	Corrected and filled missing inlet ID for WWSMP 2020		Northern Heights SPS Drawings		Northern Heights SPS Drawings	Northern Heights SPS Drawings	Computed slope
9507 City GIS received on May 29, 2020	City GIS received on May 29, 2020	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed length	Engineering judgment for WWSMP 2020	Engineering judgment for WWSMP 2020	Computed slope
9511 City GIS received on May 29, 2020	City GIS received on May 29, 2020	Dummy node created for missing outlet for WWSMP 2020	City GIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed slope
9512 City GIS received on May 29, 2020	City GIS received on May 29, 2020	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed length	Engineering judgment for WWSMP 2020	City GIS received on May 29, 2020	Computed slope
 9513 City GIS received on May 29, 2020	City GIS received on May 29, 2020	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	Engineering judgment for WWSMP 2020	Computed slope
 9514 City GIS received on May 29, 2020	City GIS received on May 29, 2020	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	Engineering judgment for WWSMP 2020	Computed slope
9515 City GIS received on May 29, 2020	Dummy node created for missing inlet for WWSMP 2020	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed length	Engineering judgment for WWSMP 2020	Engineering judgment for WWSMP 2020	Computed slope
9530 City GIS received on May 29, 2020	City GIS received on May 29, 2020	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed length	Engineering judgment for WWSMP 2020	City GIS received on May 29, 2020	Computed slope
9534 City GIS received on May 29, 2020	City GIS received on May 29, 2020	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed length	Engineering judgment for WWSMP 2020	City GIS received on May 29, 2020	Computed slope
9536 City GIS received on May 29, 2020	City GIS received on May 29, 2020	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed length	Engineering judgment for WWSMP 2020	City GIS received on May 29, 2020	Computed slope
9539 City GIS received on May 29, 2020	Corrected and filled missing inlet ID for WWSMP 2020	Corrected and filled missing outlet ID for WWSMP 2020	Engineering judgment for WWSMP 2020	Computed length	Engineering judgment for WWSMP 2020	Engineering judgment for WWSMP 2020	Computed slope
9540 City GIS received on May 29, 2020	City GIS received on May 29, 2020	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed length	Engineering judgment for WWSMP 2020	City GIS received on May 29, 2020	Computed slope
9545 City GIS received on May 29, 2020	Dummy node created for missing inlet for WWSMP 2020	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed length	Engineering judgment for WWSMP 2020	City GIS received on May 29, 2020	Computed slope
9552 City GIS received on May 29, 2020	City GIS received on May 29, 2020	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed length	Engineering judgment for WWSMP 2020	Engineering judgment for WWSMP 2020	Computed slope
9557 City GIS received on May 29, 2020	City GIS received on May 29, 2020	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed length	Engineering judgment for WWSMP 2020	Engineering judgment for WWSMP 2020	Computed slope
9559 City GIS received on May 29, 2020	City GIS received on May 29, 2020	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed length	Engineering judgment for WWSMP 2020	City GIS received on May 29, 2020	Computed slope
9575 City GIS received on May 29, 2020	Dummy node created for missing inlet for WWSMP 2020	Corrected and filled missing outlet ID for WWSMP 2020	Northern Heights SPS Drawings	Computed length	Northern Heights SPS Drawings	Northern Heights SPS Drawings	Computed slope
9575 City CIS received on May 29, 2020	Corrected and filled missing inlet ID for WWSMP 2020	Dummy node created for missing outlet for WWSMP 2020	Northern Heights OF O Drawings		Northern Heights SPS Drawings	Northern Heights SPS Drawings	Computed slope
9576 City CIS received on May 29, 2020	Dummu node exected for missing inlet for WWSMP 2020	City CIS received on May 20, 2020	Porton Estatos SPS Drawings		Porton Estates SPS Drawings	Parton Estaton SPS Drawings	
9577 City GIS received on May 29, 2020	Durning hode created for missing inlet for WWSMP 2020	City GIS received on May 29, 2020	Barton Estates SPS Drawings	Computed length	Barton Estates SPS Drawings	Barton Estates SPS Drawings	Computed slope
	Dummy node created for missing inlet for WWSMP 2020		Conden Chront ODO Descination		Contain Street CDO Drawings	Conden Street ODO Drawings	
 95/9 City GIS received on May 29, 2020	Dummy node created for missing inlet for WWSMP 2020	Corrected and filled missing outlet ID for WWSMP 2020	Gordon Street SPS Drawings	Computed length	Gordon Street SPS Drawings	Gordon Street SPS Drawings	Computed slope
9580 City GIS received on May 29, 2020	Dummy node created for missing inlet for WWSMP 2020	Corrected and filled missing outlet ID for WWSMP 2020	Gazer Mooney SPS Drawings	Computed length	Gazer Mooney SPS Drawings	Gazer Mooney SPS Drawings	Computed slope
 9586 City GIS received on May 29, 2020	Dummy node created for missing inlet for WWSMP 2020	Corrected and filled missing outlet ID for WWSMP 2020	Kortright Heights SPS Drawings	Computed length	Kortright Heights SPS Drawings	Kortright Heights SPS Drawings	Computed slope
 9587 City GIS received on May 29, 2020	Corrected and filled missing inlet ID for WWSMP 2020	Dummy node created for missing outlet for WWSMP 2020	Kortright Heights SPS Drawings	Computed length	Kortright Heights SPS Drawings	Kortright Heights SPS Drawings	Computed slope
 9591 City GIS received on May 29, 2020	Corrected and filled missing inlet ID for WWSMP 2020	Corrected and filled missing outlet ID for WWSMP 2020	City GIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed slope
9605 City GIS received on May 29, 2020	City GIS received on May 29, 2020	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed length	Engineering judgment for WWSMP 2020	Engineering judgment for WWSMP 2020	Computed slope
9607 City GIS received on May 29, 2020	City GIS received on May 29, 2020	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	Engineering judgment for WWSMP 2020	Computed slope
9608 City GIS received on May 29, 2020	City GIS received on May 29, 2020	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed length	Engineering judgment for WWSMP 2020	Engineering judgment for WWSMP 2020	Computed slope
9609 City GIS received on May 29, 2020	City GIS received on May 29, 2020	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed length	Engineering judgment for WWSMP 2020	Engineering judgment for WWSMP 2020	Computed slope
9611 City GIS received on May 29, 2020	City GIS received on May 29, 2020	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed length	Siphons Drawings	Siphons Drawings	Computed slope
9614 City GIS received on May 29, 2020	Corrected and filled missing inlet ID for WWSMP 2020	Corrected and filled missing outlet ID for WWSMP 2020	Engineering judgment for WWSMP 2020	Computed length	Engineering judgment for WWSMP 2020	Engineering judgment for WWSMP 2020	Computed slope

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CONDUIT ID	ID_SOURCE	INLET_ID_SOURCE	OUTLET_ID_SOURCE	DIAMETER_SOURCE	LENGTH_SOURCE		DOWNINVERT_SOURCE	SLOPE_SOURCE
10002	21 City GIS received on May 29, 2020	Dummy node created for missing inlet for WWSMP 2020	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed slope
10002	25 City GIS received on May 29, 2020	City GIS received on May 29, 2020	Dummy node created for missing outlet for WWSMP 2020	City GIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed slope
10003	34 City GIS received on May 29, 2020	City GIS received on May 29, 2020	Dummy node created for missing outlet for WWSMP 2020	City GIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed slope
10003	36 City GIS received on May 29, 2020	Dummy node created for missing inlet for WWSMP 2020	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed slope
10142	29 City GIS received on May 29, 2020	Dummy node created for missing inlet for WWSMP 2020	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed length	Landfill on Eastside SPS Drawings	Landfill on Eastside SPS Drawings	Computed slope
10150	5 City GIS received on May 29, 2020	Dummy node created for missing inlet for WWSMP 2020	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed length	Landfill on Eastside SPS Drawings	City GIS received on May 29, 2020	
10150	City CIS received on May 29, 2020	City CIS received on May 20, 2020	Dummy node created for missing outlet for WIWCMD 2020	City CIS received on May 29, 2020	Computed length	Landfill on Eastside SPS Drawings	Landfill on Fasteida SPS Drowings	
10150		City GIS received on May 29, 2020	Durniny hode created for missing outlet for WWSMP 2020				Landilli on Easiside SPS Drawings	
10151	11 City GIS received on May 29, 2020	Dummy node created for missing inlet for WWSMP 2020	Dummy node created for missing outlet for WWSMP 2020	City GIS received on May 29, 2020	Computed length	Landfill on Eastside SPS Drawings	Landfill on Eastside SPS Drawings	Computed slope
10161	0 City GIS received on May 29, 2020	Dummy node created for missing inlet for WWSMP 2020	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed length	Gazer Mooney SPS Drawings	Engineering judgment for WWSMP 2020	Computed slope
10202	21 City GIS received on May 29, 2020	Dummy node created for missing inlet for WWSMP 2020	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	Engineering judgment for WWSMP 2020	Computed slope
10486	5 City GIS received on May 29, 2020	Dummy node created for missing inlet for WWSMP 2020	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed length	Barton Estates SPS Drawings	Engineering judgment for WWSMP 2020	Computed slope
10687	76 City GIS received on May 29, 2020	Dummy node created for missing inlet for WWSMP 2020	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed length	2013 DC Study Model	City GIS received on May 29, 2020	Computed slope
10687	77 City GIS received on May 29, 2020	Dummy node created for missing inlet for WWSMP 2020	Dummy node created for missing outlet for WWSMP 2020	City GIS received on May 29, 2020	Computed length	Terraview SPS Drawings	2013 DC Study Model	Computed slope
10688	31 City GIS received on May 29, 2020	Dummy node created for missing inlet for WWSMP 2020	Dummy node created for missing outlet for WWSMP 2020	City GIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed slope
10743	Re City GIS received on May 29, 2020	Dummy node created for missing inlet for WWSMP 2020	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	City GIS received on May 29, 2020	
10740	City GIS received on May 29, 2020	Dummy node created for missing inlet for WWSMP 2020	Dummy node created for missing outlet for W/WSMP 2020	City CIS received on May 29, 2020	Computed length	Engineering judgment for WWSMP 2020	City CIS received on May 29, 2020	
10810	City CIC received on May 29, 2020	Durning hode created for missing inlet for WWSIMP 2020	Dummy hode created for missing outlet for WWSMP 2020	City CIS received on May 29, 2020		Engineering judgment for WWSMP 2020	City CIS received on May 29, 2020	
10810	18 City GIS received on May 29, 2020	Dummy hode created for missing inlet for WWSMP 2020	Dummy node created for missing outlet for WWSMP 2020	City GIS received on May 29, 2020		Engineering judgment for wwwSMP 2020	City GIS received on May 29, 2020	
10810	D9 City GIS received on May 29, 2020	Dummy node created for missing inlet for WWSMP 2020	Dummy node created for missing outlet for WWSMP 2020	City GIS received on May 29, 2020	Computed length	Northern Heights SPS Drawings	City GIS received on May 29, 2020	Computed slope
10811	0 City GIS received on May 29, 2020	Dummy node created for missing inlet for WWSMP 2020	Dummy node created for missing outlet for WWSMP 2020	City GIS received on May 29, 2020	Computed length	Northern Heights SPS Drawings	Northern Heights SPS Drawings	Computed slope
10811	1 City GIS received on May 29, 2020	Dummy node created for missing inlet for WWSMP 2020	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed slope
10827	71 City GIS received on May 29, 2020	Dummy node created for missing inlet for WWSMP 2020	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	Engineering judgment for WWSMP 2020	Computed slope
10938	38 City GIS received on May 29, 2020	Dummy node created for missing inlet for WWSMP 2020	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed slope
10939	2 City GIS received on May 29, 2020	Dummy node created for missing inlet for WWSMP 2020	City GIS received on May 29. 2020	City GIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed slope
10939	08 City GIS received on May 29, 2020	City GIS received on May 29, 2020	Dummy node created for missing outlet for WWSMP 2020	City GIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed slope
10030	City CIS received on May 29, 2020	City GIS received on May 29, 2020	Dummy node created for missing outlet for WWSMP 2020	City CIS received on May 29, 2020	Computed length	City CIS received on May 29, 2020	City GIS received on May 29, 2020	
10955	City CIS received on May 29, 2020	City CIS received on May 29, 2020	Dummy hode created for missing outlet for WWSMP 2020	City CIS received on May 29, 2020	Computed length	City CIS received on May 29, 2020	City CIS received on May 29, 2020	
10940		City GIS received on May 29, 2020	Dummy hode created for missing outlet for WWSMP 2020	City GIS received on May 29, 2020		City GIS received on May 29, 2020	City GIS received on May 29, 2020	
10940	01 City GIS received on May 29, 2020	Dummy node created for missing inlet for WWSMP 2020	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed slope
10940	02 City GIS received on May 29, 2020	Dummy node created for missing inlet for WWSMP 2020	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed slope
10941	3 City GIS received on May 29, 2020	City GIS received on May 29, 2020	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	Siphons Drawings	Computed slope
10941	4 City GIS received on May 29, 2020	Corrected and filled missing inlet ID for WWSMP 2020	City GIS received on May 29, 2020	City GIS received on May 29, 2020	Computed length	Engineering judgment for WWSMP 2020	Engineering judgment for WWSMP 2020	Computed slope
10941	9 City GIS received on May 29, 2020	Dummy node created for missing inlet for WWSMP 2020	Corrected and filled missing outlet ID for WWSMP 2020	Terraview SPS Drawings	Computed length	Terraview SPS Drawings	Terraview SPS Drawings	Computed slope
10942	20 City GIS received on May 29, 2020	Corrected and filled missing inlet ID for WWSMP 2020	Dummy node created for missing outlet for WWSMP 2020	Terraview SPS Drawings	Computed length	Terraview SPS Drawings	Terraview SPS Drawings	Computed slope
10942	21 City GIS received on May 29, 2020	Dummy node created for missing inlet for WWSMP 2020	Dummy node created for missing outlet for WWSMP 2020	Barton Estates SPS Drawings	Computed length	Barton Estates SPS Drawings	Barton Estates SPS Drawings	Computed slope
10042	City GIS received on May 29, 2020	Dummy node created for missing inlet for WWSMP 2020	Corrected and filled missing outlet ID for WWSMP 2020	City CIS received on May 29, 2020	Computed length	Parton Estates SPS Drawings	Parton Estates SPS Drawings	
10942	City City City City City City City City	Durning hode cleated for missing inlet for WWSIMP 2020	Confected and fined missing outlet ID for WWSMF 2020	City CIS received on May 29, 2020		Barton Estates SPS Drawings	Barton Estates OPO Drawings	
10942	24 City GIS received on May 29, 2020	Corrected and filled missing inlet ID for WWSMP 2020	Dummy node created for missing outlet for WWSMP 2020	City GIS received on May 29, 2020	Computed length	Barton Estates SPS Drawings	Barton Estates SPS Drawings	Computed slope
1828_A	Created ID for WWSMP 2020	Corrected and filled missing inlet ID for WWSMP 2020	Dummy node created for missing outlet for WWSMP 2020	City GIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	Engineering judgment for WWSMP 2020	Computed slope
1828_B	Created ID for WWSMP 2020	Dummy node created for missing inlet for WWSMP 2020	Corrected and filled missing outlet ID for WWSMP 2020	City GIS received on May 29, 2020	Computed length	Engineering judgment for WWSMP 2020	City GIS received on May 29, 2020	Computed slope
1960_A	Created ID for WWSMP 2020	Corrected and filled missing inlet ID for WWSMP 2020	Dummy node created for missing outlet for WWSMP 2020	City GIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	Engineering judgment for WWSMP 2020	Computed slope
1960_B	Created ID for WWSMP 2020	Dummy node created for missing inlet for WWSMP 2020	Corrected and filled missing outlet ID for WWSMP 2020	City GIS received on May 29, 2020	Computed length	Engineering judgment for WWSMP 2020	City GIS received on May 29, 2020	Computed slope
215_A	Created ID for WWSMP 2020	Corrected and filled missing inlet ID for WWSMP 2020	Dummy node created for missing outlet for WWSMP 2020	City GIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	Engineering judgment for WWSMP 2020	Computed slope
215 B	Created ID for WWSMP 2020	Dummy node created for missing inlet for WWSMP 2020	Corrected and filled missing outlet ID for WWSMP 2020	City GIS received on May 29, 2020	Computed length	Engineering judgment for WWSMP 2020	City GIS received on May 29, 2020	Computed slope
2736 A	Created ID for WWSMP 2020	Corrected and filled missing inlet ID for WWSMP 2020	Dummy node created for missing outlet for WWSMP 2020	City GIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	Engineering judgment for WWSMP 2020	Computed slope
2736 P	Created ID for WWSMR 2020	Dummy node graated for missing inlet for WWSMP 2020	Corrected and filled missing outlet ID for WWSMP 2020	City CIS received on May 29, 2020	Computed length	Engineering judgment for WWSMP 2020	City CIS received on May 29, 2020	
2730_B								
2766_A	Created ID for WWSMP 2020	Corrected and filled missing inlet ID for WWSMP 2020	Dummy node created for missing outlet for WWSMP 2020	City GIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	Engineering judgment for WWSMP 2020	Computed slope
2766_B	Created ID for WWSMP 2020	Dummy node created for missing inlet for WWSMP 2020	Corrected and filled missing outlet ID for WWSMP 2020	City GIS received on May 29, 2020	Computed length	Engineering judgment for WWSMP 2020	City GIS received on May 29, 2020	Computed slope
3012_A	Created ID for WWSMP 2020	Corrected and filled missing inlet ID for WWSMP 2020	Dummy node created for missing outlet for WWSMP 2020	City GIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	Engineering judgment for WWSMP 2020	Computed slope
3012_B	Created ID for WWSMP 2020	Dummy node created for missing inlet for WWSMP 2020	Corrected and filled missing outlet ID for WWSMP 2020	City GIS received on May 29, 2020	Computed length	Engineering judgment for WWSMP 2020	Engineering judgment for WWSMP 2020	Computed slope
3631_A	Created ID for WWSMP 2020	Corrected and filled missing inlet ID for WWSMP 2020	Dummy node created for missing outlet for WWSMP 2020	City GIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	Engineering judgment for WWSMP 2020	Computed slope
3631_B	Created ID for WWSMP 2020	Dummy node created for missing inlet for WWSMP 2020	Corrected and filled missing outlet ID for WWSMP 2020	City GIS received on May 29, 2020	Computed length	Engineering judgment for WWSMP 2020	City GIS received on May 29, 2020	Computed slope
3633_A	Created ID for WWSMP 2020	Corrected and filled missing inlet ID for WWSMP 2020	Dummy node created for missing outlet for WWSMP 2020	City GIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	Engineering judgment for WWSMP 2020	Computed slope
3633 B	Created ID for WWSMP 2020	Dummy node created for missing inlet for WWSMP 2020	Dummy node created for missing outlet for WWSMP 2020	City GIS received on May 29, 2020	Computed length	Engineering judgment for WWSMP 2020	Engineering judgment for WWSMP 2020	Computed slope
3633 C	Created ID for WWSMP 2020	Dummy node created for missing inlet for WWSMP 2020	Corrected and filled missing outlet ID for WWSMP 2020	City GIS received on May 29, 2020	Computed length	Engineering judgment for WWSMP 2020	City GIS received on May 29, 2020	Computed slope
3634 A	Created ID for WWSMP 2020	Corrected and filled missing inlet ID for WWSMP 2020	Dummy node created for missing outlot for WWSMP 2020	City GIS received on May 20, 2020	Computed length	City GIS received on May 20, 2020	Engineering judgment for WW/MEMP 2020	Computed slope
3034_A		Confected and fined missing infection www.skip 2020	Durinity hole cleated for missing outlet for WWSMP 2020	City CIS received on May 29, 2020				
0004_D		Durning hode created for missing inlet for WWSMP 2020	Durning hode created for missing outlet for WWSMP 2020					Computed slope
3034_0	Created ID for WWSMP 2020	Dummy node created for missing inlet for WWSMP 2020	Corrected and Tilled missing outlet ID for WWSMP 2020	Lotty GIS received on May 29, 2020	Computed length	Engineering judgment for WWSMP 2020	City GIS received on May 29, 2020	Computed slope
4189_A	Created ID for WWSMP 2020	Corrected and filled missing inlet ID for WWSMP 2020	Dummy node created for missing outlet for WWSMP 2020	City GIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	Engineering judgment for WWSMP 2020	Computed slope
4189_B	Created ID for WWSMP 2020	Dummy node created for missing inlet for WWSMP 2020	Corrected and filled missing outlet ID for WWSMP 2020	City GIS received on May 29, 2020	Computed length	Engineering judgment for WWSMP 2020	City GIS received on May 29, 2020	Computed slope
4190_A	Created ID for WWSMP 2020	Corrected and filled missing inlet ID for WWSMP 2020	Dummy node created for missing outlet for WWSMP 2020	City GIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	Engineering judgment for WWSMP 2020	Computed slope
4190_B	Created ID for WWSMP 2020	Dummy node created for missing inlet for WWSMP 2020	Corrected and filled missing outlet ID for WWSMP 2020	City GIS received on May 29, 2020	Computed length	Engineering judgment for WWSMP 2020	City GIS received on May 29, 2020	Computed slope
5236 A	Created ID for WWSMP 2020	Corrected and filled missing inlet ID for WWSMP 2020	Dummy node created for missing outlet for WWSMP 2020	City GIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	Engineering judgment for WWSMP 2020	Computed slope
5236 B	Created ID for WWSMP 2020	Dummy node created for missing inlet for WWSMP 2020	Corrected and filled missing outlet ID for WWSMP 2020	City GIS received on May 29, 2020	Computed length	Engineering judgment for WWSMP 2020	City GIS received on May 29, 2020	Computed slope
 5329_B	Created ID for WWSMP 2020	Corrected and filled missing inlet ID for WWSMP 2020	Dummy node created for missing outlet for WWSMP 2020	City GIS received on May 29, 2020	Computed length	Engineering judgment for WWSMP 2020	Engineering judgment for WWSMP 2020	Computed slope
5330 B	Created ID for WWSMP 2020	Corrected and filled missing inlet ID for WWSMP 2020	Corrected and filled missing outlet ID for WWSMP 2020	City GIS received on May 29, 2020	Computed length	Engineering judgment for WWSMP 2020	Engineering judgment for WWSMP 2020	Computed slope
5337 Δ					Sompatoa longti			Somparod Slope
5007_R	Created ID for WIMEMD 2000	Dummy node created for missing inlat for WWEND 2020	Dummy node created for missing outlet for M/M/CMD 2000	City GIS received on May 20, 2020	Computed length	City GIS received on May 20, 2020	Engineering judgment for M/M/SMD 2022	Computed along
	Created ID for WWSMP 2020	Dummy node created for missing inlet for WWSMP 2020	Dummy node created for missing outlet for WWSMP 2020	City GIS received on May 29, 2020	Computed length	City GIS received on May 29, 2020	Engineering judgment for WWSMP 2020	Computed slope
	Created ID for WWSMP 2020 Created ID for WWSMP 2020	Dummy node created for missing inlet for WWSMP 2020 Dummy node created for missing inlet for WWSMP 2020 Compared and filled priorities in the PC of WWWENE 2020	Dummy node created for missing outlet for WWSMP 2020 Dummy node created for missing outlet for WWSMP 2020	City GIS received on May 29, 2020 City GIS received on May 29, 2020	Computed length Computed length	City GIS received on May 29, 2020 Engineering judgment for WWSMP 2020	Engineering judgment for WWSMP 2020 City GIS received on May 29, 2020	Computed slope Computed slope
5574_A	Created ID for WWSMP 2020 Created ID for WWSMP 2020 Created ID for WWSMP 2020	Dummy node created for missing inlet for WWSMP 2020 Dummy node created for missing inlet for WWSMP 2020 Corrected and filled missing inlet ID for WWSMP 2020	Dummy node created for missing outlet for WWSMP 2020 Dummy node created for missing outlet for WWSMP 2020 Dummy node created for missing outlet for WWSMP 2020	City GIS received on May 29, 2020 City GIS received on May 29, 2020 City GIS received on May 29, 2020	Computed length Computed length Computed length	City GIS received on May 29, 2020 Engineering judgment for WWSMP 2020 City GIS received on May 29, 2020	Engineering judgment for WWSMP 2020 City GIS received on May 29, 2020 Engineering judgment for WWSMP 2020	Computed slope Computed slope Computed slope
5574_A 5574_B	Created ID for WWSMP 2020 Created ID for WWSMP 2020 Created ID for WWSMP 2020 Created ID for WWSMP 2020	Dummy node created for missing inlet for WWSMP 2020 Dummy node created for missing inlet for WWSMP 2020 Corrected and filled missing inlet ID for WWSMP 2020 Dummy node created for missing inlet for WWSMP 2020	Dummy node created for missing outlet for WWSMP 2020 Dummy node created for missing outlet for WWSMP 2020 Dummy node created for missing outlet for WWSMP 2020 Corrected and filled missing outlet ID for WWSMP 2020	City GIS received on May 29, 2020 City GIS received on May 29, 2020 City GIS received on May 29, 2020 City GIS received on May 29, 2020	Computed length Computed length Computed length Computed length	City GIS received on May 29, 2020 Engineering judgment for WWSMP 2020 City GIS received on May 29, 2020 Engineering judgment for WWSMP 2020	Engineering judgment for WWSMP 2020 City GIS received on May 29, 2020 Engineering judgment for WWSMP 2020 City GIS received on May 29, 2020	Computed slope Computed slope Computed slope Computed slope
5574_A 5574_B 5575_A	Created ID for WWSMP 2020 Created ID for WWSMP 2020 Created ID for WWSMP 2020 Created ID for WWSMP 2020 Created ID for WWSMP 2020	Dummy node created for missing inlet for WWSMP 2020 Dummy node created for missing inlet for WWSMP 2020 Corrected and filled missing inlet ID for WWSMP 2020 Dummy node created for missing inlet for WWSMP 2020 Corrected and filled missing inlet for WWSMP 2020 Corrected and filled missing inlet for WWSMP 2020	Dummy node created for missing outlet for WWSMP 2020 Dummy node created for missing outlet for WWSMP 2020 Dummy node created for missing outlet for WWSMP 2020 Corrected and filled missing outlet ID for WWSMP 2020 Dummy node created for missing outlet for WWSMP 2020	City GIS received on May 29, 2020City GIS received on May 29, 2020	Computed length Computed length Computed length Computed length Computed length	City GIS received on May 29, 2020 Engineering judgment for WWSMP 2020 City GIS received on May 29, 2020 Engineering judgment for WWSMP 2020 City GIS received on May 29, 2020	Engineering judgment for WWSMP 2020 City GIS received on May 29, 2020 Engineering judgment for WWSMP 2020 City GIS received on May 29, 2020 Engineering judgment for WWSMP 2020	Computed slope Computed slope Computed slope Computed slope Computed slope
5574_A 5574_B 5575_A 5575_B	Created ID for WWSMP 2020Created ID for WWSMP 2020	Dummy node created for missing inlet for WWSMP 2020Dummy node created for missing inlet for WWSMP 2020Corrected and filled missing inlet ID for WWSMP 2020Dummy node created for missing inlet for WWSMP 2020Corrected and filled missing inlet ID for WWSMP 2020Dummy node created for missing inlet for WWSMP 2020Dummy node created for missing inlet ID for WWSMP 2020Dummy node created for missing inlet ID for WWSMP 2020Dummy node created for missing inlet ID for WWSMP 2020	Dummy node created for missing outlet for WWSMP 2020 Dummy node created for missing outlet for WWSMP 2020 Dummy node created for missing outlet for WWSMP 2020 Corrected and filled missing outlet ID for WWSMP 2020 Dummy node created for missing outlet for WWSMP 2020 Corrected and filled missing outlet ID for WWSMP 2020	City GIS received on May 29, 2020City GIS received on May 29, 2020	Computed length Computed length Computed length Computed length Computed length Computed length	City GIS received on May 29, 2020Engineering judgment for WWSMP 2020City GIS received on May 29, 2020Engineering judgment for WWSMP 2020City GIS received on May 29, 2020Engineering judgment for WWSMP 2020Engineering judgment for WWSMP 2020	Engineering judgment for WWSMP 2020 City GIS received on May 29, 2020 Engineering judgment for WWSMP 2020 City GIS received on May 29, 2020 Engineering judgment for WWSMP 2020 City GIS received on May 29, 2020	Computed slope Computed slope Computed slope Computed slope Computed slope Computed slope
5574_A 5574_B 5575_A 5575_B 6053_A	Created ID for WWSMP 2020 Created ID for WWSMP 2020	Dummy node created for missing inlet for WWSMP 2020 Dummy node created for missing inlet for WWSMP 2020 Corrected and filled missing inlet ID for WWSMP 2020 Dummy node created for missing inlet for WWSMP 2020 Corrected and filled missing inlet ID for WWSMP 2020 Corrected and filled missing inlet ID for WWSMP 2020 Dummy node created for missing inlet for WWSMP 2020 Dummy node created for missing inlet ID for WWSMP 2020 Corrected and filled missing inlet ID for WWSMP 2020 Corrected and filled missing inlet ID for WWSMP 2020	Dummy node created for missing outlet for WWSMP 2020 Dummy node created for missing outlet for WWSMP 2020 Dummy node created for missing outlet for WWSMP 2020 Corrected and filled missing outlet ID for WWSMP 2020 Dummy node created for missing outlet for WWSMP 2020 Corrected and filled missing outlet ID for WWSMP 2020 Dummy node created for missing outlet ID for WWSMP 2020 Dummy node created for missing outlet ID for WWSMP 2020	City GIS received on May 29, 2020 City GIS received on May 29, 2020	Computed length Computed length Computed length Computed length Computed length Computed length Computed length	City GIS received on May 29, 2020 Engineering judgment for WWSMP 2020 City GIS received on May 29, 2020 Engineering judgment for WWSMP 2020 City GIS received on May 29, 2020 Engineering judgment for WWSMP 2020 City GIS received on May 29, 2020	Engineering judgment for WWSMP 2020 City GIS received on May 29, 2020 Engineering judgment for WWSMP 2020 City GIS received on May 29, 2020 Engineering judgment for WWSMP 2020 City GIS received on May 29, 2020 Engineering judgment for WWSMP 2020	Computed slope Computed slope Computed slope Computed slope Computed slope Computed slope Computed slope
5574_A 5574_B 5575_A 5575_B 6053_A 6053 B	Created ID for WWSMP 2020 Created ID for WWSMP 2020	Dummy node created for missing inlet for WWSMP 2020 Dummy node created for missing inlet for WWSMP 2020 Corrected and filled missing inlet ID for WWSMP 2020 Dummy node created for missing inlet for WWSMP 2020 Corrected and filled missing inlet ID for WWSMP 2020 Corrected and filled missing inlet for WWSMP 2020 Corrected and filled missing inlet ID for WWSMP 2020 Dummy node created for missing inlet for WWSMP 2020 Corrected and filled missing inlet for WWSMP 2020 Dummy node created for missing inlet for WWSMP 2020 Dummy node created for missing inlet for WWSMP 2020	Dummy node created for missing outlet for WWSMP 2020 Dummy node created for missing outlet for WWSMP 2020 Dummy node created for missing outlet for WWSMP 2020 Corrected and filled missing outlet ID for WWSMP 2020 Dummy node created for missing outlet for WWSMP 2020 Corrected and filled missing outlet ID for WWSMP 2020 Dummy node created for missing outlet for WWSMP 2020 Dummy node created for missing outlet for WWSMP 2020 Dummy node created for missing outlet for WWSMP 2020	City GIS received on May 29, 2020City GIS received on May 29, 2020	Computed length Computed length Computed length Computed length Computed length Computed length Computed length Computed length Computed length	City GIS received on May 29, 2020 Engineering judgment for WWSMP 2020 City GIS received on May 29, 2020 Engineering judgment for WWSMP 2020 City GIS received on May 29, 2020 Engineering judgment for WWSMP 2020 City GIS received on May 29, 2020 Engineering judgment for WWSMP 2020	Engineering judgment for WWSMP 2020 City GIS received on May 29, 2020 Engineering judgment for WWSMP 2020 City GIS received on May 29, 2020 Engineering judgment for WWSMP 2020 City GIS received on May 29, 2020 Engineering judgment for WWSMP 2020 City GIS received on May 29, 2020	Computed slope Computed slope Computed slope Computed slope Computed slope Computed slope Computed slope Computed slope
5574_A 5574_B 5575_A 5575_B 6053_A 6053_B 8556@8557	Created ID for WWSMP 2020Created ID for WWSMP 2020	Dummy node created for missing inlet for WWSMP 2020 Dummy node created for missing inlet for WWSMP 2020 Corrected and filled missing inlet ID for WWSMP 2020 Dummy node created for missing inlet for WWSMP 2020 Corrected and filled missing inlet ID for WWSMP 2020 Corrected and filled missing inlet ID for WWSMP 2020 Dummy node created for missing inlet for WWSMP 2020 Dummy node created for missing inlet for WWSMP 2020 Dummy node created for missing inlet for WWSMP 2020 Dummy node created for missing inlet ID for WWSMP 2020 Corrected and filled missing inlet ID for WWSMP 2020 Corrected and filled missing inlet for WWSMP 2020 Corrected and filled missing inlet ID for WWSMP 2020 Corrected and filled missing inlet for WWSMP 2020 Dummy node created for missing inlet for WWSMP 2020 CN# 2-1614 Drawings	Dummy node created for missing outlet for WWSMP 2020 Dummy node created for missing outlet for WWSMP 2020 Dummy node created for missing outlet for WWSMP 2020 Corrected and filled missing outlet ID for WWSMP 2020 Dummy node created for missing outlet for WWSMP 2020 Corrected and filled missing outlet ID for WWSMP 2020 Dummy node created for missing outlet for WWSMP 2020 Dummy node created for missing outlet for WWSMP 2020 Dummy node created for missing outlet for WWSMP 2020 CN# 2-1614 Drawings	City GIS received on May 29, 2020City GIS received on May 29, 2020CN# 2-1614 Drawings	Computed length Computed length Computed length Computed length Computed length Computed length Computed length Computed length Computed length	City GIS received on May 29, 2020 Engineering judgment for WWSMP 2020 City GIS received on May 29, 2020 Engineering judgment for WWSMP 2020 City GIS received on May 29, 2020 Engineering judgment for WWSMP 2020 City GIS received on May 29, 2020 Engineering judgment for WWSMP 2020 CN# 2-1614 Drawings	Engineering judgment for WWSMP 2020 City GIS received on May 29, 2020 Engineering judgment for WWSMP 2020 City GIS received on May 29, 2020 Engineering judgment for WWSMP 2020 City GIS received on May 29, 2020 Engineering judgment for WWSMP 2020 City GIS received on May 29, 2020 City GIS received on May 29, 2020 City GIS received on May 29, 2020	Computed slope
5574_A 5574_B 5575_A 5575_B 6053_A 6053_B 8556@8557 8788_A	Created ID for WWSMP 2020 Created ID for WWSMP 2020	Dummy node created for missing inlet for WWSMP 2020 Dummy node created for missing inlet for WWSMP 2020 Corrected and filled missing inlet ID for WWSMP 2020 Dummy node created for missing inlet for WWSMP 2020 Corrected and filled missing inlet ID for WWSMP 2020 Corrected and filled missing inlet ID for WWSMP 2020 Dummy node created for missing inlet for WWSMP 2020 Corrected and filled missing inlet ID for WWSMP 2020 Corrected and filled missing inlet ID for WWSMP 2020 Dummy node created for missing inlet for WWSMP 2020 Currected and filled missing inlet ID for WWSMP 2020 CN# 2-1614 Drawings Corrected and filled missing inlet ID for WWSMP 2020	Dummy node created for missing outlet for WWSMP 2020 Dummy node created for missing outlet for WWSMP 2020 Dummy node created for missing outlet for WWSMP 2020 Corrected and filled missing outlet ID for WWSMP 2020 Dummy node created for missing outlet for WWSMP 2020 Corrected and filled missing outlet ID for WWSMP 2020 Dummy node created for missing outlet for WWSMP 2020	City GIS received on May 29, 2020 City GIS received on May 29, 2020	Computed length Computed length	City GIS received on May 29, 2020 Engineering judgment for WWSMP 2020 City GIS received on May 29, 2020 Engineering judgment for WWSMP 2020 City GIS received on May 29, 2020 Engineering judgment for WWSMP 2020 City GIS received on May 29, 2020 Engineering judgment for WWSMP 2020 CN# 2-1614 Drawings City GIS received on May 20, 2020	Engineering judgment for WWSMP 2020 City GIS received on May 29, 2020 Engineering judgment for WWSMP 2020 City GIS received on May 29, 2020 Engineering judgment for WWSMP 2020 City GIS received on May 29, 2020 Engineering judgment for WWSMP 2020 City GIS received on May 29, 2020 City GIS received on May 29, 2020 CN# 2-1614 Drawings Engineering judgment for WWSMP 2020	Computed slope Computed slope Computed slope Computed slope Computed slope Computed slope Computed slope Computed slope Computed slope
5574_A 5574_B 5575_A 5575_B 6053_A 6053_B 8556@8557 8788_A 9799_B	Created ID for WWSMP 2020 Created ID for WWSMP 2020	Dummy node created for missing inlet for WWSMP 2020Dummy node created for missing inlet for WWSMP 2020Corrected and filled missing inlet ID for WWSMP 2020Dummy node created for missing inlet for WWSMP 2020Corrected and filled missing inlet ID for WWSMP 2020Dummy node created for missing inlet for WWSMP 2020Dummy node created for missing inlet for WWSMP 2020Corrected and filled missing inlet ID for WWSMP 2020Dummy node created for missing inlet for WWSMP 2020Dummy node created for missing inlet for WWSMP 2020Corrected and filled missing inlet for WWSMP 2020CN# 2-1614 DrawingsCorrected and filled missing inlet ID for WWSMP 2020Dummy node created for missing inlet ID for WWSMP 2020	Dummy node created for missing outlet for WWSMP 2020 Dummy node created for missing outlet for WWSMP 2020 Dummy node created for missing outlet for WWSMP 2020 Corrected and filled missing outlet ID for WWSMP 2020 Dummy node created for missing outlet for WWSMP 2020 Corrected and filled missing outlet ID for WWSMP 2020 Dummy node created for missing outlet for WWSMP 2020 Dummy node created for missing outlet for WWSMP 2020 CN# 2-1614 Drawings Dummy node created for missing outlet for WWSMP 2020 CN# 2-1614 Drawings	City GIS received on May 29, 2020 City GIS received on May 29, 2020	Computed length Computed length	City GIS received on May 29, 2020 Engineering judgment for WWSMP 2020 City GIS received on May 29, 2020 Engineering judgment for WWSMP 2020 City GIS received on May 29, 2020 Engineering judgment for WWSMP 2020 City GIS received on May 29, 2020 Engineering judgment for WWSMP 2020 CN# 2-1614 Drawings City GIS received on May 29, 2020	Engineering judgment for WWSMP 2020 City GIS received on May 29, 2020 Engineering judgment for WWSMP 2020 City GIS received on May 29, 2020 Engineering judgment for WWSMP 2020 City GIS received on May 29, 2020 Engineering judgment for WWSMP 2020 City GIS received on May 29, 2020 City GIS received on May 29, 2020 CN# 2-1614 Drawings Engineering judgment for WWSMP 2020	Computed slope Computed slope Computed slope Computed slope Computed slope Computed slope Computed slope Computed slope Computed slope Computed slope
5574_A 5574_B 5575_A 5575_B 6053_A 6053_B 8556@8557 8788_A 8788_B	Created ID for WWSMP 2020 Created ID for WWSMP 2020	Dummy node created for missing inlet for WWSMP 2020Dummy node created for missing inlet for WWSMP 2020Corrected and filled missing inlet ID for WWSMP 2020Dummy node created for missing inlet for WWSMP 2020Corrected and filled missing inlet ID for WWSMP 2020Dummy node created for missing inlet for WWSMP 2020Dummy node created for missing inlet for WWSMP 2020Dummy node created for missing inlet for WWSMP 2020Corrected and filled missing inlet ID for WWSMP 2020Dummy node created for missing inlet for WWSMP 2020Dummy node created for missing inlet for WWSMP 2020CN# 2-1614 DrawingsCorrected and filled missing inlet ID for WWSMP 2020Dummy node created for missing inlet ID for WWSMP 2020Dummy node created for missing inlet for WWSMP 2020Dummy node created for missing inlet for WWSMP 2020	Dummy node created for missing outlet for WWSMP 2020 Dummy node created for missing outlet for WWSMP 2020 Dummy node created for missing outlet for WWSMP 2020 Corrected and filled missing outlet ID for WWSMP 2020 Dummy node created for missing outlet for WWSMP 2020 Corrected and filled missing outlet ID for WWSMP 2020 Dummy node created for missing outlet for WWSMP 2020 Dummy node created for missing outlet for WWSMP 2020 CN# 2-1614 Drawings Dummy node created for missing outlet for WWSMP 2020 Corrected and filled missing outlet for WWSMP 2020 CN# 2-1614 Drawings Dummy node created for missing outlet for WWSMP 2020	City GIS received on May 29, 2020City GIS received on May 29, 2020	Computed length Computed length	City GIS received on May 29, 2020 Engineering judgment for WWSMP 2020 City GIS received on May 29, 2020 Engineering judgment for WWSMP 2020 City GIS received on May 29, 2020 Engineering judgment for WWSMP 2020 City GIS received on May 29, 2020 Engineering judgment for WWSMP 2020 CN# 2-1614 Drawings City GIS received on May 29, 2020 Engineering judgment for WWSMP 2020	Engineering judgment for WWSMP 2020 City GIS received on May 29, 2020 Engineering judgment for WWSMP 2020 City GIS received on May 29, 2020 Engineering judgment for WWSMP 2020 City GIS received on May 29, 2020 Engineering judgment for WWSMP 2020 City GIS received on May 29, 2020 City GIS received on May 29, 2020 CN# 2-1614 Drawings Engineering judgment for WWSMP 2020 City GIS received on May 29, 2020	Computed slope Computed slope
5574_A 5574_B 5575_A 5575_B 6053_A 6053_B 8556@8557 8788_A 8788_B 8982_A	Created ID for WWSMP 2020 Created ID for WWSMP 2020	Dummy node created for missing inlet for WWSMP 2020Dummy node created for missing inlet for WWSMP 2020Corrected and filled missing inlet ID for WWSMP 2020Dummy node created for missing inlet for WWSMP 2020Corrected and filled missing inlet ID for WWSMP 2020Dummy node created for missing inlet for WWSMP 2020Corrected and filled missing inlet ID for WWSMP 2020Dummy node created for missing inlet for WWSMP 2020CN# 2-1614 DrawingsCorrected and filled missing inlet ID for WWSMP 2020Dummy node created for missing inlet for WWSMP 2020Dummy node created for missing inlet for WWSMP 2020	Dummy node created for missing outlet for WWSMP 2020 Dummy node created for missing outlet for WWSMP 2020 Dummy node created for missing outlet for WWSMP 2020 Corrected and filled missing outlet ID for WWSMP 2020 Dummy node created for missing outlet for WWSMP 2020 Corrected and filled missing outlet ID for WWSMP 2020 Dummy node created for missing outlet for WWSMP 2020 Dummy node created for missing outlet for WWSMP 2020 CN# 2-1614 Drawings Dummy node created for missing outlet for WWSMP 2020 Corrected and filled missing outlet for WWSMP 2020 Corrected and filled missing outlet for WWSMP 2020 Corrected and filled missing outlet for WWSMP 2020	City GIS received on May 29, 2020City GIS received on May 29, 2020	Computed length Computed length	City GIS received on May 29, 2020Engineering judgment for WWSMP 2020City GIS received on May 29, 2020Engineering judgment for WWSMP 2020City GIS received on May 29, 2020Engineering judgment for WWSMP 2020City GIS received on May 29, 2020Engineering judgment for WWSMP 2020City GIS received on May 29, 2020Engineering judgment for WWSMP 2020City GIS received on May 29, 2020Engineering judgment for WWSMP 2020CN# 2-1614 DrawingsCity GIS received on May 29, 2020Engineering judgment for WWSMP 2020City GIS received on May 29, 2020Engineering judgment for WWSMP 2020City GIS received on May 29, 2020	Engineering judgment for WWSMP 2020 City GIS received on May 29, 2020 Engineering judgment for WWSMP 2020 City GIS received on May 29, 2020 Engineering judgment for WWSMP 2020 City GIS received on May 29, 2020 Engineering judgment for WWSMP 2020 City GIS received on May 29, 2020 CN# 2-1614 Drawings Engineering judgment for WWSMP 2020 City GIS received on May 29, 2020	Computed slope Computed slope
5574_A 5574_B 5575_A 5575_B 6053_A 6053_B 8556@8557 8788_A 8788_B 8982_A 8982_B	Created ID for WWSMP 2020Created ID for WWSMP 2020	Dummy node created for missing inlet for WWSMP 2020Dummy node created for missing inlet for WWSMP 2020Corrected and filled missing inlet ID for WWSMP 2020Dummy node created for missing inlet for WWSMP 2020Corrected and filled missing inlet ID for WWSMP 2020Dummy node created for missing inlet for WWSMP 2020Dummy node created for missing inlet for WWSMP 2020Corrected and filled missing inlet ID for WWSMP 2020Corrected and filled missing inlet for WWSMP 2020Dummy node created for missing inlet for WWSMP 2020Dummy node created for missing inlet for WWSMP 2020CN# 2-1614 DrawingsCorrected and filled missing inlet ID for WWSMP 2020Dummy node created for missing inlet for WWSMP 2020	Dummy node created for missing outlet for WWSMP 2020 Dummy node created for missing outlet for WWSMP 2020 Dummy node created for missing outlet for WWSMP 2020 Corrected and filled missing outlet ID for WWSMP 2020 Dummy node created for missing outlet for WWSMP 2020 Corrected and filled missing outlet ID for WWSMP 2020 Dummy node created for missing outlet for WWSMP 2020 Dummy node created for missing outlet for WWSMP 2020 CN# 2-1614 Drawings Dummy node created for missing outlet for WWSMP 2020 Corrected and filled missing outlet ID for WWSMP 2020	City GIS received on May 29, 2020City GIS received on May 29, 2020	Computed length Computed length	City GIS received on May 29, 2020Engineering judgment for WWSMP 2020City GIS received on May 29, 2020Engineering judgment for WWSMP 2020City GIS received on May 29, 2020Engineering judgment for WWSMP 2020City GIS received on May 29, 2020Engineering judgment for WWSMP 2020City GIS received on May 29, 2020Engineering judgment for WWSMP 2020City GIS received on May 29, 2020Engineering judgment for WWSMP 2020CN# 2-1614 DrawingsCity GIS received on May 29, 2020Engineering judgment for WWSMP 2020City GIS received on May 29, 2020Engineering judgment for WWSMP 2020City GIS received on May 29, 2020Engineering judgment for WWSMP 2020City GIS received on May 29, 2020Engineering judgment for WWSMP 2020City GIS received on May 29, 2020Engineering judgment for WWSMP 2020	Engineering judgment for WWSMP 2020 City GIS received on May 29, 2020 Engineering judgment for WWSMP 2020 City GIS received on May 29, 2020 Engineering judgment for WWSMP 2020 City GIS received on May 29, 2020 Engineering judgment for WWSMP 2020 City GIS received on May 29, 2020 CN# 2-1614 Drawings Engineering judgment for WWSMP 2020 City GIS received on May 29, 2020	Computed slopeComputed slope

CONDUIT ID	ID_SOURCE	INLET_ID_SOURCE	OUTLET_ID_SOURCE	DIAMETER_SOURCE	LENGTH_SOURCE	UPINVERT_SOURCE	DOWNINVERT_SOURCE	SLOPE_SOURCE
9610_B	Created ID for WWSMP 2020	Corrected and filled missing inlet ID for WWSMP 2020	Corrected and filled missing outlet ID for WWSMP 2020	City GIS received on May 29, 2020	Computed length	Siphons Drawings	Siphons Drawings	Computed slope
CN-2-1717_6731	Created ID for WWSMP 2020	CN# 2-1717 Drawings	CN# 2-1717 Drawings	CN# 2-1717 Drawings	Computed length	CN# 2-1717 Drawings	CN# 2-1717 Drawings	Computed slope
CN-2-1717_6734	Created ID for WWSMP 2020	CN# 2-1717 Drawings	CN# 2-1717 Drawings	CN# 2-1717 Drawings	Computed length	CN# 2-1717 Drawings	CN# 2-1717 Drawings	Computed slope
CN-2-1717_SAN038	Created ID for WWSMP 2020	CN# 2-1717 Drawings	CN# 2-1717 Drawings	CN# 2-1717 Drawings	Computed length	CN# 2-1717 Drawings	CN# 2-1717 Drawings	Computed slope
CN-2-1717_SAN039	Created ID for WWSMP 2020	CN# 2-1717 Drawings	CN# 2-1717 Drawings	CN# 2-1717 Drawings	Computed length	CN# 2-1717 Drawings	CN# 2-1717 Drawings	Computed slope
CN-2-1717_SAN040	Created ID for WWSMP 2020	CN# 2-1717 Drawings	CN# 2-1717 Drawings	CN# 2-1717 Drawings	Computed length	CN# 2-1717 Drawings	CN# 2-1717 Drawings	Computed slope
CN-2-1717_SAN041	Created ID for WWSMP 2020	CN# 2-1717 Drawings	CN# 2-1717 Drawings	CN# 2-1717 Drawings	Computed length	CN# 2-1717 Drawings	CN# 2-1717 Drawings	Computed slope
CN-2-1717_SAN042	Created ID for WWSMP 2020	CN# 2-1717 Drawings	CN# 2-1717 Drawings	CN# 2-1717 Drawings	Computed length	CN# 2-1717 Drawings	CN# 2-1717 Drawings	Computed slope
CN-2-1717_SAN043	Created ID for WWSMP 2020	CN# 2-1717 Drawings	CN# 2-1717 Drawings	CN# 2-1717 Drawings	Computed length	CN# 2-1717 Drawings	CN# 2-1717 Drawings	Computed slope
CN-2-1717_SAN044	Created ID for WWSMP 2020	CN# 2-1717 Drawings	CN# 2-1717 Drawings	CN# 2-1717 Drawings	Computed length	CN# 2-1717 Drawings	CN# 2-1717 Drawings	Computed slope
CN-2-1717_SAN045	Created ID for WWSMP 2020	CN# 2-1717 Drawings	CN# 2-1717 Drawings	CN# 2-1717 Drawings	Computed length	CN# 2-1717 Drawings	CN# 2-1717 Drawings	Computed slope
CN-2-1717_SAN046	Created ID for WWSMP 2020	CN# 2-1717 Drawings	CN# 2-1717 Drawings	CN# 2-1717 Drawings	Computed length	CN# 2-1717 Drawings	CN# 2-1717 Drawings	Computed slope
CN-2-1717_SAN047_1	Created ID for WWSMP 2020	CN# 2-1717 Drawings	CN# 2-1717 Drawings	CN# 2-1717 Drawings	Computed length	CN# 2-1717 Drawings	CN# 2-1717 Drawings	Computed slope
CN-2-1717_SAN047_2	Created ID for WWSMP 2020	CN# 2-1717 Drawings	CN# 2-1717 Drawings	CN# 2-1717 Drawings	Computed length	CN# 2-1717 Drawings	CN# 2-1717 Drawings	Computed slope
CN-2-1717_SAN101	Created ID for WWSMP 2020	CN# 2-1717 Drawings	CN# 2-1717 Drawings	CN# 2-1717 Drawings	Computed length	CN# 2-1717 Drawings	CN# 2-1717 Drawings	Computed slope
CN-2-1717_SAN102	Created ID for WWSMP 2020	CN# 2-1717 Drawings	CN# 2-1717 Drawings	CN# 2-1717 Drawings	Computed length	CN# 2-1717 Drawings	CN# 2-1717 Drawings	Computed slope
CN-2-1717_SAN103	Created ID for WWSMP 2020	CN# 2-1717 Drawings	CN# 2-1717 Drawings	CN# 2-1717 Drawings	Computed length	CN# 2-1717 Drawings	CN# 2-1717 Drawings	Computed slope
CN-2-1717_SAN104	Created ID for WWSMP 2020	CN# 2-1717 Drawings	CN# 2-1717 Drawings	CN# 2-1717 Drawings	Computed length	CN# 2-1717 Drawings	CN# 2-1717 Drawings	Computed slope
CN-2-1717_SAN105	Created ID for WWSMP 2020	CN# 2-1717 Drawings	CN# 2-1717 Drawings	CN# 2-1717 Drawings	Computed length	CN# 2-1717 Drawings	CN# 2-1717 Drawings	Computed slope
CN-2-1717_SAN106	Created ID for WWSMP 2020	CN# 2-1717 Drawings	CN# 2-1717 Drawings	CN# 2-1717 Drawings	Computed length	CN# 2-1717 Drawings	CN# 2-1717 Drawings	Computed slope
CN-2-1717_SAN107	Created ID for WWSMP 2020	CN# 2-1717 Drawings	CN# 2-1717 Drawings	CN# 2-1717 Drawings	Computed length	CN# 2-1717 Drawings	CN# 2-1717 Drawings	Computed slope
CN-2-1717_SAN108	Created ID for WWSMP 2020	CN# 2-1717 Drawings	CN# 2-1717 Drawings	CN# 2-1717 Drawings	Computed length	CN# 2-1717 Drawings	CN# 2-1717 Drawings	Computed slope
CN-2-1717_SAN109	Created ID for WWSMP 2020	CN# 2-1717 Drawings	CN# 2-1717 Drawings	CN# 2-1717 Drawings	Computed length	CN# 2-1717 Drawings	CN# 2-1717 Drawings	Computed slope
CN-2-1717_SAN111	Created ID for WWSMP 2020	CN# 2-1717 Drawings	CN# 2-1717 Drawings	CN# 2-1717 Drawings	Computed length	CN# 2-1717 Drawings	CN# 2-1717 Drawings	Computed slope
CN-2-1717_SAN4258_2	Created ID for WWSMP 2020	CN# 2-1717 Drawings	CN# 2-1717 Drawings	CN# 2-1717 Drawings	Computed length	CN# 2-1717 Drawings	CN# 2-1717 Drawings	Computed slope
CN-2-1717_SAN4310_2	Created ID for WWSMP 2020	CN# 2-1717 Drawings	CN# 2-1717 Drawings	CN# 2-1717 Drawings	Computed length	CN# 2-1717 Drawings	CN# 2-1717 Drawings	Computed slope
CN-2-1908_3623	Created ID for WWSMP 2020	CN# 2-1908 Drawings	CN# 2-1908 Drawings	CN# 2-1908 Drawings	Computed length	CN# 2-1908 Drawings	CN# 2-1908 Drawings	Computed slope
CN-2-1908_3713	Created ID for WWSMP 2020	CN# 2-1908 Drawings	CN# 2-1908 Drawings	CN# 2-1908 Drawings	Computed length	CN# 2-1908 Drawings	CN# 2-1908 Drawings	Computed slope
CN-2-1908_SAN120	Created ID for WWSMP 2020	CN# 2-1908 Drawings	CN# 2-1908 Drawings	CN# 2-1908 Drawings	Computed length	CN# 2-1908 Drawings	CN# 2-1908 Drawings	Computed slope
CN-2-1908_SAN120A	Created ID for WWSMP 2020	CN# 2-1908 Drawings	CN# 2-1908 Drawings	CN# 2-1908 Drawings	Computed length	CN# 2-1908 Drawings	CN# 2-1908 Drawings	Computed slope
CN-2-1908_SAN121	Created ID for WWSMP 2020	CN# 2-1908 Drawings	CN# 2-1908 Drawings	CN# 2-1908 Drawings	Computed length	CN# 2-1908 Drawings	CN# 2-1908 Drawings	Computed slope
L6591	2013 DC Study Model	2013 DC Study Model	2013 DC Study Model	2013 DC Study Model	Computed Length	2013 DC Study Model	2013 DC Study Model	Computed Slope
Rockwood	Created ID for WWSMP 2020	Dummy node created for missing inlet for WWSMP 2020	Dummy node created for missing outlet for WWSMP 2020	#N/A	Computed length	#N/A	#N/A	Computed slope

JUNCTION ID	ID_SOURCE	INVERT_SOURCE	RIM_SOURCE
8	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 20
14	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 20
36	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 20
42	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 20
43	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 20
44	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 20
91	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 20
119	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 20
125	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 20
139	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 20
171	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 20
173	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 20
174	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 20
177	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 20
178	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 20
179	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 20
180	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 20
182	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 20
185	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 20
186	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 20
187	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 20
188	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 20
189	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 20
192	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 20
193	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 20
194	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 20
197	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 20
198	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 20
200	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 20
206	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 20
207	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 20
208	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 20
209	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 20
210	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 20
220	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 20
222	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 20
236	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 20
243	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 20
244	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 20
248	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 20
615	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 20
660	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 20
717	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 20
718	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 20
719	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 20
1068	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 20

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JUNCTION ID	ID_SOURCE	INVERT_SOURCE	RIM_SOURCE
1129	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 20
1139	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 20
1194	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 20
1222	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 20
1243	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 20
1250	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 20
1254	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 20
1384	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 20
1400	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 20
1402	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 20
1435	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 20
1486	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 20
1500	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 20
1501	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 20
1502	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 20
1533	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 20
1534	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 20
1535	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 20
1538	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 20
1548	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 20
1596	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 20
1597	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 20
1622	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 20
1623	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 20
1647	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 20
1648	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 20
1737	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 20
1738	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 20
1810	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 20
2096	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 20
2382	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 20
2393	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 20
2406	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 20
2407	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 20
2408	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 20
2462	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 20
2499	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 20
2518	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 20
2595	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 20
2598	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 20
2633	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 20
2634	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 20
2635	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 20
2637	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 20
2638	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 20
2639	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 20

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JUNCTION ID	ID_SOURCE	INVERT_SOURCE	RIM_SOURCE
2640	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
2643	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
2657	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
2658	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
2668	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
2678	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
2701	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
2708	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
2723	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
2730	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
2736	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
2759	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
2760	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
2778	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
2833	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
2901	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
2902	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
3102	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
3103	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
3168	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
3204	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
3205	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
3228	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
3272	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
3401	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
3474	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
3475	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
3521	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
3538	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
3541	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
3564	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
3595	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
3597	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
3616	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
3624	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
3625	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
3693	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
3715	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
3784	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
3785	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
3802	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
3860	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
3871	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
3894	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
3902	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
3913	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020

JUNCTION ID	ID_SOURCE	INVERT_SOURCE	RIM_SOURCE
4042	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
4061	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
4082	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
4090	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
4115	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
4116	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
4117	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
4193	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
4195	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
4196	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
4197	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
4198	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
4199	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
4253	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
4254	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
4255	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
4256	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
4257	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
4258	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
4259	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
4261	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
4262	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
4263	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
4277	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
4278	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
4279	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
4280	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
4282	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
4283	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
4285	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
4286	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
4287	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
4288	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
4397	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
4405	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
4454	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
4455	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
4456	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
4457	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
4458	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
4459	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
4460	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
4461	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
4462	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
4463	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
4464	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020

JUNCTION ID	ID_SOURCE	INVERT_SOURCE	RIM_SOURCE
4465	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
4466	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
4467	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
4470	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
4471	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
4472	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
4473	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
4474	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
4475	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
4489	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
4491	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
4492	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
4493	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
4500	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
4501	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
4502	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
4542	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
4543	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
4550	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
4551	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
4552	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
4553	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
4576	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
4577	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
4611	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
4612	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
4613	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
4624	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
4690	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
4723	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
4724	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
4725	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
4726	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
4727	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
4728	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
4729	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
4730	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
4731	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
4732	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
4733	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
4734	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
4735	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
4736	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
4737	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
4749	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
4750	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020

JUNCTION ID	ID_SOURCE	INVERT_SOURCE	RIM_SOURCE
4751	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2
4757	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2
4828	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2
4831	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2
4832	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2
4833	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2
4834	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2
4835	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2
4854	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2
4861	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2
4862	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2
4864	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2
4866	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2
4879	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2
4880	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2
4881	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2
4883	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2
4884	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2
4885	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2
4886	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2
4887	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2
4888	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2
4889	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2
4893	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2
4897	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2
4899	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2
4900	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2
4902	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2
4903	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2
4904	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2
4905	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2
4906	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2
4907	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2
4922	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2
5100	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2
5115	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2
5116	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19. 2
5117	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2
5118	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19. 2
5146	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2
5261	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2
5262	City GIS received on May 29. 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2
5263	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2
5264	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2
5265	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2
5266	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2
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JUNCTION ID	ID_SOURCE	INVERT_SOURCE	RIM_SOURCE
5290	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
5291	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
5292	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
5293	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
5294	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
5295	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
5296	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
5297	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
5298	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
5299	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
5300	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
5301	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
5302	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
5303	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
5304	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
5307	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
5308	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
5309	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
5310	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
5311	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
5326	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
5327	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
5328	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
5355	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
5356	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
5357	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
5358	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
5359	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
5360	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
5361	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
5362	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
5363	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
5364	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
5365	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
5366	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
5367	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
5368	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
5369	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
5370	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
5371	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
5372	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
5373	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
5374	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
5375	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
5376	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
5377	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020

JUNCTION ID	ID_SOURCE	INVERT_SOURCE	RIM_SOURCE
5378	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
5379	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
5380	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
5381	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
5382	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
5383	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
5384	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
5385	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
5386	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
5387	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
5388	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
5390	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
5391	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
5392	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
5393	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
5394	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
5395	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
5396	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
5397	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
5398	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
5399	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
5414	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
5415	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
5416	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
5417	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
5418	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
5419	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
5435	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
5436	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
5502	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
5503	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
5504	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
5505	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
5506	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
5507	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
5508	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
5509	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
5510	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
5511	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
5512	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
5513	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
5514	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
5515	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
5516	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
5517	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
5518	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020

JUNCTION ID	ID_SOURCE	INVERT_SOURCE	RIM_SOURCE
5519	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
5520	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
5521	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
5522	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
5524	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
5526	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
5527	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
5528	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
5529	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
5530	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
5531	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
5532	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
5533	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
5534	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
5535	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
5536	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
5537	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
5538	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
5539	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
5540	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
5541	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
5542	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
5545	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
5546	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
5547	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
5548	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
5549	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
5551	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
5552	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
5553	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
5554	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
5556	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
5557	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
5565	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
5566	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
5567	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
5568	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
5569	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
5570	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
5571	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
5572	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
5573	City GIS received on May 29, 2020	Intered from lowest connecting pipe invert	DEM received from City on May 19, 2020
5574	City GIS received on May 29, 2020	Intered from lowest connecting pipe invert	DEM received from City on May 19, 2020
5575	City GIS received on May 29, 2020	Intered from lowest connecting pipe invert	DEM received from City on May 19, 2020
5577	City GIS received on May 29, 2020	Intered from lowest connecting pipe invert	DEM received from City on May 19, 2020
5579	City GIS received on May 29, 2020	Intered from lowest connecting pipe invert	DEM received from City on May 19, 2020

JUNCTION ID	ID_SOURCE	INVERT_SOURCE	RIM_SOURCE
5580	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
5581	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
5582	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
5583	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
5584	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
5585	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
5586	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
5587	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
5588	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
5589	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
5590	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
5591	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
5592	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
5593	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
5594	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
5595	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
5596	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
5597	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
5598	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
5599	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
5600	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
5601	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
5602	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
5603	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
5604	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
5605	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
5606	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
5607	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
5608	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
5609	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
5610	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
5611	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
5612	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
5613	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
5614	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
5616	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
5617	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
5618	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
5619	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
5620	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
5621	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
5622	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
5623	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
5624	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
5625	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
5626	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020

JUNCTION ID	ID_SOURCE	INVERT_SOURCE	RIM_SOURCE
5627	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
5628	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
5629	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
5630	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
5631	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
5632	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
5633	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
5634	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
5635	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
5636	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
5637	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
5638	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
5639	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
5640	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
5641	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
5642	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
5643	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
5644	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
5645	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
5646	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
5647	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
5648	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
5665	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
5666	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
5667	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
5668	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
5669	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
5670	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
5671	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
5672	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
5673	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
5674	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
5675	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
5676	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
5677	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
5678	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
5679	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
5680	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
5681	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
5682	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
5683	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
5684	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
5685	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
5686	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
5687	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
5688	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020

JUNCTION ID	ID_SOURCE	INVERT_SOURCE	RIM_SOURCE
5689	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2
5690	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2
5691	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2
5692	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2
5693	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2
5694	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2
5695	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2
5696	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2
5697	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2
5698	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2
5699	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2
5700	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2
5701	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2
5702	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2
5703	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2
5704	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2
5705	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2
5706	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2
5707	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2
5708	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2
5709	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2
5710	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2
5711	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2
5712	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2
5713	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2
5714	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2
5715	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2
5716	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2
5717	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2
5718	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2
5722	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2
5723	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2
5725	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2
5726	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2
5727	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2
5728	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2
5729	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2
5730	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2
5731	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2
5732	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2
5734	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2
5735	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2
5736	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2
5737	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2
5738	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2
5740	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2

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JUNCTION ID	ID_SOURCE	INVERT_SOURCE	RIM_SOURCE
5741	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 20
5742	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 20
5744	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 20
5746	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 20
5747	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 20
5748	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 20
5749	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 20
5750	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 20
5751	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 20
5752	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 20
5753	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 20
5754	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 20
5755	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 20
5756	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 20
5757	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 20
5758	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 20
5759	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 20
5760	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 20
5761	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 20
5762	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 20
5763	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 20
5764	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 20
5765	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 20
5766	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 20
5767	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 20
5768	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 20
5769	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 20
5770	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 20
5771	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 20
5772	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 20
5773	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 20
5774	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 20
5775	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 20
5776	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 20
5777	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 20
5778	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 20
5779	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 20
5780	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 20
5781	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 20
5782	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 20
5783	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 20
5784	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 20
5785	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 20
5786	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 20
5787	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 20
5788	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 20

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JUNCTION ID	ID_SOURCE	INVERT_SOURCE	RIM_SOURCE
5789	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
5790	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
5791	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
5793	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
5794	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
5795	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
5796	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
5797	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
5798	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
5799	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
5800	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
5801	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
5802	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
5803	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
5804	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
5805	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
5806	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
5807	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
5808	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
5830	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
5832	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
5833	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
5834	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
5835	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
5836	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
5837	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
5838	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
5839	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
5840	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
5841	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
5842	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
5843	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
5844	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
5845	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
5846	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
5847	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
5848	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
5849	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
5850	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
5851	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
5852	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
5853	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
5854	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
5855	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
5856	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
5857	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020

JUNCTION ID	ID_SOURCE	INVERT_SOURCE	RIM_SOURCE
5858	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
5859	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
5860	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
5861	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
5862	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
5863	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
5864	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
5865	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
5866	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
5867	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
5868	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
5869	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
5870	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
5871	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
5872	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
5873	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
5874	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
5876	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
5877	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
5878	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
5879	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
5880	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
5881	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
5888	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
5896	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
5897	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
5898	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
5899	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
5900	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
5901	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
5902	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
5903	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
5904	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
5906	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
5907	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
5909	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
5910	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
5911	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
5912	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
5913	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
5914	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
5915	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
5916	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
5917	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
5921	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
5922	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020

JUNCTION ID	ID_SOURCE	INVERT_SOURCE	RIM_SOURCE
5923	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
5924	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
5925	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
5926	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
5927	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
5930	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
5931	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
5932	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
5933	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
5934	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
5935	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
5936	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
5937	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
5938	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
5939	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
5940	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
5941	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
5942	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
5943	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
5944	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
5945	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
6032	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
6033	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
6034	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
6035	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
6036	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
6037	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
6038	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
6039	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
6040	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
6041	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
6042	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
6043	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
6044	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
6045	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
6046	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
6047	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
6048	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
6049	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
6050	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
6051	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
6052	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
6053	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
6054	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
6055	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
6056	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020

JUNCTION ID	ID_SOURCE	INVERT_SOURCE	RIM_SOURCE
6057	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 20
6059	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 20
6060	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 20
6061	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 20
6062	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 20
6063	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 20
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6065	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 20
6067	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 20
6068	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 20
6069	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 20
6070	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 20
6071	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 20
6072	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 20
6073	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 20
6074	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 20
6143	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 20
6144	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 20
6145	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 20
6146	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 20
6147	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 20
6148	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 20
6149	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 20
6150	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 20
6151	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 20
6152	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 20
6153	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 20
6154	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 20
6155	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 20
6156	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 20
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6159	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 20
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6164	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 20
6165	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 20
6166	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 20
6167	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 20
6168	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 20
6169	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 20
6170	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 20
6171	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 20
6172	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 20

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JUNCTION ID	ID_SOURCE	INVERT_SOURCE	RIM_SOURCE
6173	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2
6174	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2
6175	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2
6176	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2
6177	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2
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6185	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2
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6214	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2
6215	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2
6216	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2
6217	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2
6218	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2
6219	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2
6220	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2
6221	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2
6222	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2
6223	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2
6224	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2
6225	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2
6226	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2
6227	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2
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6229	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2
6230	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2
6231	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2
6232	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2
6233	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2

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JUNCTION ID	ID_SOURCE	INVERT_SOURCE	RIM_SOURCE
6234	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
6235	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
6236	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
6237	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
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6242	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
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6267	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
6268	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
6269	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
6270	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
6271	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
6272	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
6273	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
6274	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
6275	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
6276	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
6277	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
6278	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
6279	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
6280	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
6281	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
6318	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
6319	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
6320	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
6321	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
6322	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
6323	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
6324	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
6325	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
6326	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
6327	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
6328	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
6329	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
6331	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
6332	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
6333	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
6334	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
6335	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
6336	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
6337	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
6338	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
6339	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020

JUNCTION ID	ID_SOURCE	INVERT_SOURCE	RIM_SOURCE
6340	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
6341	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
6343	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
6344	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
6345	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
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6349	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
6350	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
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6352	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
6353	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
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6356	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
6357	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
6358	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
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6360	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
6361	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
6364	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
6365	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
6366	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
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6375	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
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6380	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
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6389	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
6475	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
6476	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
6477	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
6478	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020

JUNCTION ID	ID_SOURCE	INVERT_SOURCE	RIM_SOURCE
6479	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2
6480	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2
6481	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2
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6483	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2
6484	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2
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6501	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2
6502	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2
6503	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2
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6510	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2
6511	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2
6512	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2
6513	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2
6514	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2
6515	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2
6516	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2
6517	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2
6518	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2
6519	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2
6520	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2
6521	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2
6522	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2
6523	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2
6524	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2
6525	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2

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JUNCTION ID	ID_SOURCE	INVERT_SOURCE	RIM_SOURCE
6526	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
6527	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
6528	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
6529	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
6530	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
6531	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
6532	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
6559	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
6560	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
6561	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
6589	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
6590	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
6591	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
6592	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
6593	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
6594	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
6595	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
6596	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
6597	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
6599	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
6633	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
6634	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
6635	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
6636	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
6637	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
6638	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
6662	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
6672	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
6673	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
6674	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
6675	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
6676	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
6677	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
6681	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
6682	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
6683	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
6684	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
6685	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
6690	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
6750	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
6751	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
6752	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
6753	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
6754	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
6755	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
6756	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020

JUNCTION ID	ID_SOURCE	INVERT_SOURCE	RIM_SOURCE
6757	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
6758	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
6759	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
6760	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
6761	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
6762	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
6763	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
6764	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
6765	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
6766	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
6767	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
6768	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
6769	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
6770	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
6771	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
6772	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
6773	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
6774	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
6775	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
6776	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
6777	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
6787	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
6788	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
6789	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
6790	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
6791	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
6792	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
6793	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
6794	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
6795	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
6796	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
6797	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
6798	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
6804	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
6805	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
6806	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
6807	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
6808	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
6809	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
6810	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
6811	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
6812	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
6813	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
6814	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
6815	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
6816	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020

JUNCTION ID	ID_SOURCE	INVERT_SOURCE	RIM_SOURCE
6817	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 20
6818	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 20
6819	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 20
6820	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 20
6821	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 20
6822	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 20
6823	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 20
6824	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 20
6825	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 20
6826	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 20
6827	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 20
6828	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 20
6832	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 20
6833	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 20
6834	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 20
6835	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 20
6836	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 20
6837	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 20
6838	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 20
6839	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 20
6840	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 20
6873	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 20
6874	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 20
6875	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 20
6876	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 20
6877	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 20
6878	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 20
6879	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 20
6880	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 20
6881	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 20
6882	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 20
6883	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 20
6884	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 20
6885	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 20
6886	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 20
6887	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 20
6888	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 20
6889	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 20
6890	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 20
6891	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 20
6899	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 20
6900	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 20
6901	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 20
6902	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 20
6903	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 20
6904	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 20

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JUNCTION ID	ID_SOURCE	INVERT_SOURCE	RIM_SOURCE
6905	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
6906	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
6907	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
6908	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
6909	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
6910	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
6911	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
6912	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
6913	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
6914	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
6915	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
6916	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
6917	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
6918	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
6919	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
6920	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
6921	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
6922	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
6947	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
6948	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
6949	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
6950	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
6951	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
6952	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
6953	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
6967	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
6968	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
6969	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
6970	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
6971	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
6972	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
6973	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
6974	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
6975	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
6976	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
6977	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
6978	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
6979	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
6980	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
6981	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
6982	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
6983	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
6984	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
6985	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
7003	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
7061	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020

JUNCTION ID	ID_SOURCE	INVERT_SOURCE	RIM_SOURCE
7062	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
7063	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
7075	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
7077	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
7078	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
7079	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
7080	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
7081	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
7082	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
7095	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
7112	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
7113	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
7117	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
7233	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
7234	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
7235	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
7236	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
7237	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
7238	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
7239	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
7240	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
7241	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
7242	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
7243	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
7244	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
7251	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
7297	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
7299	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
7305	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
7327	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
7394	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
7406	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
7407	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
7430	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
7431	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
7432	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
7433	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
7434	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
7453	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
7461	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
7462	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
7471	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
7472	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
7473	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
7474	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
7475	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020

JUNCTION ID	ID_SOURCE	INVERT_SOURCE	RIM_SOURCE
7476	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
7477	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
7480	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
7482	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
7483	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
7484	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
7485	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
7486	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
7491	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
7493	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
7495	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
7562	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
7571	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
7572	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
7650	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
7669	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
7670	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
7671	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
7672	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
7673	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
7674	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
7681	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
7795	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
7796	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
7797	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
7798	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
7799	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
7800	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
7801	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
7802	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
7803	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
7804	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
7806	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
7807	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
7808	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
7818	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
7892	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
7894	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
7895	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
7896	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
7898	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
7967	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
7968	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
7969	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
7970	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
7971	City GIS received on May 29, 2020	Intered from lowest connecting pipe invert	DEM received from City on May 19, 2020

JUNCTION ID	ID_SOURCE	INVERT_SOURCE	RIM_SOURCE
7972	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
7973	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
7974	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
7975	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
7976	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
7977	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
7978	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
7991	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
8017	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
8018	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
8019	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
8020	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
8059	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
8062	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
8063	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
8064	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
8065	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
8066	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
8067	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
8068	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
8069	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
8070	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
8071	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
8072	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
8073	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
8074	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
8075	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
8155	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
8156	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
8157	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
8158	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
8159	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
8183	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
8189	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
8191	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
8193	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
8237	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
8239	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
8240	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
8257	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
8258	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
8264	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
8298	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
8299	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
8300	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
8301	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020

JUNCTION ID	ID_SOURCE	INVERT_SOURCE	RIM_SOURCE
8302	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
8303	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
8304	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
8305	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
8306	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
8307	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
8308	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
8309	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
8310	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
8321	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
8322	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
8323	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
8355	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
8356	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
8415	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
8593	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
8594	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
8595	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
8596	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
8597	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
8598	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
8599	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
8600	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
8601	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
8602	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
8603	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
8604	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
8605	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
8606	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
8607	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
8608	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
8609	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
8610	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
8611	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
8612	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
8613	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
8614	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
8686	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
8689	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
8729	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
8741	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
8768	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
8769	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
8770	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
8771	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
8772	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
JUNCTION ID	ID_SOURCE	INVERT_SOURCE	RIM_SOURCE
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8773	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
8774	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
8775	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
8776	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
8777	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
8778	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
8779	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
8797	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
8804	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
8805	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
8817	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
8832	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
8833	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
8834	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
8843	City GIS received on May 29, 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
Barton_Estates_SPS	Dummy node created for missing pipe connectivity for WWSMP 2020	Infered from lowest connecting pipe invert	Barton Estates SPS Drawings
CN-2-1717_MH038	Created ID for WWSMP 2020	Infered from lowest connecting pipe invert	CN# 2-1717 Drawings
CN-2-1717_MH039	Created ID for WWSMP 2020	Infered from lowest connecting pipe invert	CN# 2-1717 Drawings
CN-2-1717_MH040	Created ID for WWSMP 2020	Infered from lowest connecting pipe invert	CN# 2-1717 Drawings
CN-2-1717_MH041	Created ID for WWSMP 2020	Infered from lowest connecting pipe invert	CN# 2-1717 Drawings
CN-2-1717_MH042	Created ID for WWSMP 2020	Infered from lowest connecting pipe invert	CN# 2-1717 Drawings
CN-2-1717_MH043	Created ID for WWSMP 2020	Infered from lowest connecting pipe invert	CN# 2-1717 Drawings
CN-2-1717_MH044	Created ID for WWSMP 2020	Infered from lowest connecting pipe invert	CN# 2-1717 Drawings
CN-2-1717_MH045	Created ID for WWSMP 2020	Infered from lowest connecting pipe invert	CN# 2-1717 Drawings
CN-2-1717_MH046	Created ID for WWSMP 2020	Infered from lowest connecting pipe invert	CN# 2-1717 Drawings
CN-2-1717_MH047	Created ID for WWSMP 2020	Infered from lowest connecting pipe invert	CN# 2-1717 Drawings
CN-2-1717_MH101	Created ID for WWSMP 2020	Infered from lowest connecting pipe invert	CN# 2-1717 Drawings
CN-2-1717_MH102	Created ID for WWSMP 2020	Infered from lowest connecting pipe invert	CN# 2-1717 Drawings
CN-2-1717_MH103	Created ID for WWSMP 2020	Infered from lowest connecting pipe invert	CN# 2-1717 Drawings
CN-2-1717_MH104	Created ID for WWSMP 2020	Infered from lowest connecting pipe invert	CN# 2-1717 Drawings
CN-2-1717_MH105	Created ID for WWSMP 2020	Infered from lowest connecting pipe invert	CN# 2-1717 Drawings
CN-2-1717_MH106	Created ID for WWSMP 2020	Infered from lowest connecting pipe invert	CN# 2-1717 Drawings
CN-2-1717_MH107	Created ID for WWSMP 2020	Infered from lowest connecting pipe invert	CN# 2-1717 Drawings
CN-2-1717_MH108	Created ID for WWSMP 2020	Infered from lowest connecting pipe invert	CN# 2-1717 Drawings
CN-2-1717_MH109	Created ID for WWSMP 2020	Infered from lowest connecting pipe invert	CN# 2-1717 Drawings
CN-2-1717_MH109_2	Created ID for WWSMP 2020	Infered from lowest connecting pipe invert	CN# 2-1717 Drawings
CN-2-1717_MH110	Created ID for WWSMP 2020	Infered from lowest connecting pipe invert	CN# 2-1717 Drawings
CN-2-1717_MH111	Created ID for WWSMP 2020	Infered from lowest connecting pipe invert	CN# 2-1717 Drawings
CN-2-1908_MH120	Created ID for WWSMP 2020	Infered from lowest connecting pipe invert	CN# 2-1908 Drawings
CN-2-1908_MH120A	Created ID for WWSMP 2020	Infered from lowest connecting pipe invert	CN# 2-1908 Drawings
CN-2-1908_MH121	Created ID for WWSMP 2020	Infered from lowest connecting pipe invert	CN# 2-1908 Drawings
DUMMY-100025@109402	Dummy node created for missing pipe connectivity for WWSMP 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
DUMMY-100034@100036	Dummy node created for missing pipe connectivity for WWSMP 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
DUMMY-1005@8343	Dummy node created for missing pipe connectivity for WWSMP 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
DUMMY-1011@1012	Dummy node created for missing pipe connectivity for WWSMP 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
DUMMY-101506@101511	Dummy node created for missing pipe connectivity for WWSMP 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020

JUNCTION ID	ID_SOURCE	INVERT_SOURCE	RIM_SOURCE
DUMMY-1039@1041	Dummy node created for missing pipe connectivity for WWSMP 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
DUMMY-1050@8377	Dummy node created for missing pipe connectivity for WWSMP 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
DUMMY-1052@1050	Dummy node created for missing pipe connectivity for WWSMP 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
DUMMY-106877@106876	Dummy node created for missing pipe connectivity for WWSMP 2020	Infered from lowest connecting pipe invert	Terraview SPS Drawings
DUMMY-106881@109419	Dummy node created for missing pipe connectivity for WWSMP 2020	Infered from lowest connecting pipe invert	Terraview SPS Drawings
DUMMY-108107@108108	Dummy node created for missing pipe connectivity for WWSMP 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
DUMMY-108108@108111	Dummy node created for missing pipe connectivity for WWSMP 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
DUMMY-108109@108107	Dummy node created for missing pipe connectivity for WWSMP 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
DUMMY-108110@108109	Dummy node created for missing pipe connectivity for WWSMP 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
DUMMY-109398@109401	Dummy node created for missing pipe connectivity for WWSMP 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
DUMMY-109399@100021	Dummy node created for missing pipe connectivity for WWSMP 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
DUMMY-109400@109392	Dummy node created for missing pipe connectivity for WWSMP 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
DUMMY-109415@108110	Dummy node created for missing pipe connectivity for WWSMP 2020	Infered from lowest connecting pipe invert	Northern Heights SPS Drawings
DUMMY-109416@106881	Dummy node created for missing pipe connectivity for WWSMP 2020	Infered from lowest connecting pipe invert	Terraview SPS Drawings
DUMMY-109420@106877	Dummy node created for missing pipe connectivity for WWSMP 2020	Infered from lowest connecting pipe invert	Terraview SPS Drawings
DUMMY-109421@109423	Dummy node created for missing pipe connectivity for WWSMP 2020	Infered from lowest connecting pipe invert	Barton Estates SPS Drawings
DUMMY-109422@109421	Dummy node created for missing pipe connectivity for WWSMP 2020	Infered from lowest connecting pipe invert	Barton Estates SPS Drawings
DUMMY-109424@104865	Dummy node created for missing pipe connectivity for WWSMP 2020	Infered from lowest connecting pipe invert	Barton Estates SPS Drawings
DUMMY-109425@102021	Dummy node created for missing pipe connectivity for WWSMP 2020	Infered from lowest connecting pipe invert	Gordon Street SPS Drawings
DUMMY-109426@101610	Dummy node created for missing pipe connectivity for WWSMP 2020	Infered from lowest connecting pipe invert	Gazer Mooney SPS Drawings
DUMMY-109431@101429	Dummy node created for missing pipe connectivity for WWSMP 2020	Infered from lowest connecting pipe invert	Landfill on Eastside SPS Drawings
DUMMY-109432@107436	Dummy node created for missing pipe connectivity for WWSMP 2020	Infered from lowest connecting pipe invert	Kortright Heights SPS Drawings
DUMMY-1181@7732	Dummy node created for missing pipe connectivity for WWSMP 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
DUMMY-1184@7728	Dummy node created for missing pipe connectivity for WWSMP 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
DUMMY-1187@7730	Dummy node created for missing pipe connectivity for WWSMP 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
DUMMY-1190@7470	Dummy node created for missing pipe connectivity for WWSMP 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
DUMMY-1245@7972	Dummy node created for missing pipe connectivity for WWSMP 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
DUMMY-1250@7383	Dummy node created for missing pipe connectivity for WWSMP 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
DUMMY-1253@8859	Dummy node created for missing pipe connectivity for WWSMP 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
DUMMY-1288@7734	Dummy node created for missing pipe connectivity for WWSMP 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
DUMMY-1305@7731	Dummy node created for missing pipe connectivity for WWSMP 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
DUMMY-1324@1326	Dummy node created for missing pipe connectivity for WWSMP 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
DUMMY-1331@1328	Dummy node created for missing pipe connectivity for WWSMP 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
DUMMY-1336@1331	Dummy node created for missing pipe connectivity for WWSMP 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
DUMMY-1343@1198	Dummy node created for missing pipe connectivity for WWSMP 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
DUMMY-1409@7379	Dummy node created for missing pipe connectivity for WWSMP 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
DUMMY-1452@9580	Dummy node created for missing pipe connectivity for WWSMP 2020	Infered from lowest connecting pipe invert	Gazer Mooney SPS Drawings
DUMMY-1480@1473	Dummy node created for missing pipe connectivity for WWSMP 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
DUMMY-1512@8467	Dummy node created for missing pipe connectivity for WWSMP 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
DUMMY-1524@8461	Dummy node created for missing pipe connectivity for WWSMP 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
DUMMY-1566@1568	Dummy node created for missing pipe connectivity for WWSMP 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
DUMMY-1586@8537	Dummy node created for missing pipe connectivity for WWSMP 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
DUMMY-1597@8542	Dummy node created for missing pipe connectivity for WWSMP 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
DUMMY-16@3647	Dummy node created for missing pipe connectivity for WWSMP 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
DUMMY-1603@1482	Dummy node created for missing pipe connectivity for WWSMP 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
DUMMY-1650@8536	Dummy node created for missing pipe connectivity for WWSMP 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020

JUNCTION ID	ID_SOURCE	INVERT_SOURCE	RIM_SOURCE
DUMMY-1828	Dummy node created for missing pipe connectivity for WWSMP 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2
DUMMY-1849@9457	Dummy node created for missing pipe connectivity for WWSMP 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2
DUMMY-1856@9464	Dummy node created for missing pipe connectivity for WWSMP 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2
DUMMY-1857@9467	Dummy node created for missing pipe connectivity for WWSMP 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2
DUMMY-188@8469	Dummy node created for missing pipe connectivity for WWSMP 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2
DUMMY-1891@8702	Dummy node created for missing pipe connectivity for WWSMP 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2
DUMMY-1903@8700	Dummy node created for missing pipe connectivity for WWSMP 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2
DUMMY-1904@8698	Dummy node created for missing pipe connectivity for WWSMP 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2
DUMMY-1911@9250	Dummy node created for missing pipe connectivity for WWSMP 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2
DUMMY-1943@8982	Dummy node created for missing pipe connectivity for WWSMP 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2
DUMMY-1960	Dummy node created for missing pipe connectivity for WWSMP 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2
DUMMY-1991@9254	Dummy node created for missing pipe connectivity for WWSMP 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2
DUMMY-2086@3345	Dummy node created for missing pipe connectivity for WWSMP 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2
DUMMY-2090@2091	Dummy node created for missing pipe connectivity for WWSMP 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2
DUMMY-2102@2097	Dummy node created for missing pipe connectivity for WWSMP 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2
DUMMY-2113@2112	Dummy node created for missing pipe connectivity for WWSMP 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2
DUMMY-212@213	Dummy node created for missing pipe connectivity for WWSMP 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2
DUMMY-215	Dummy node created for missing pipe connectivity for WWSMP 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2
DUMMY-2223@2224	Dummy node created for missing pipe connectivity for WWSMP 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2
DUMMY-2497@1776	Dummy node created for missing pipe connectivity for WWSMP 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2
DUMMY-2629@2621	Dummy node created for missing pipe connectivity for WWSMP 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2
DUMMY-272@8372	Dummy node created for missing pipe connectivity for WWSMP 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2
DUMMY-2736	Dummy node created for missing pipe connectivity for WWSMP 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2
DUMMY-2766	Dummy node created for missing pipe connectivity for WWSMP 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2
DUMMY-2791@2790	Dummy node created for missing pipe connectivity for WWSMP 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2
DUMMY-2795@2796	Dummy node created for missing pipe connectivity for WWSMP 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2
DUMMY-2810@2753	Dummy node created for missing pipe connectivity for WWSMP 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2
DUMMY-2815@8326	Dummy node created for missing pipe connectivity for WWSMP 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2
DUMMY-2826@8320	Dummy node created for missing pipe connectivity for WWSMP 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2
DUMMY-2843@2844	Dummy node created for missing pipe connectivity for WWSMP 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2
DUMMY-2937@2938	Dummy node created for missing pipe connectivity for WWSMP 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2
DUMMY-2940@6508	Dummy node created for missing pipe connectivity for WWSMP 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2
DUMMY-2967@2983	Dummy node created for missing pipe connectivity for WWSMP 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2
DUMMY-2976@9243	Dummy node created for missing pipe connectivity for WWSMP 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2
DUMMY-2983@2982	Dummy node created for missing pipe connectivity for WWSMP 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2
DUMMY-3012	Dummy node created for missing pipe connectivity for WWSMP 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2
DUMMY-3027@3028	Dummy node created for missing pipe connectivity for WWSMP 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2
DUMMY-303@8361	Dummy node created for missing pipe connectivity for WWSMP 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2
DUMMY-3092@3093	Dummy node created for missing pipe connectivity for WWSMP 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2
DUMMY-3153@3152	Dummy node created for missing pipe connectivity for WWSMP 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2
DUMMY-3251@8670	Dummy node created for missing pipe connectivity for WWSMP 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2
DUMMY-3258@3259	Dummy node created for missing pipe connectivity for WWSMP 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2
DUMMY-3270@8672	Dummy node created for missing pipe connectivity for WWSMP 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2
DUMMY-331@80	Dummy node created for missing pipe connectivity for WWSMP 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2
DUMMY-3315@3320	Dummy node created for missing pipe connectivity for WWSMP 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2
DUMMY-3322@3323	Dummy node created for missing pipe connectivity for WWSMP 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2

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JUNCTION ID	ID_SOURCE	INVERT_SOURCE	RIM_SOURCE
DUMMY-3330@3331	Dummy node created for missing pipe connectivity for WWSMP 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2
DUMMY-3424@3417	Dummy node created for missing pipe connectivity for WWSMP 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2
DUMMY-3451@3452	Dummy node created for missing pipe connectivity for WWSMP 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2
DUMMY-3456@3457	Dummy node created for missing pipe connectivity for WWSMP 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2
DUMMY-3457@3458	Dummy node created for missing pipe connectivity for WWSMP 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2
DUMMY-3473@3476	Dummy node created for missing pipe connectivity for WWSMP 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2
DUMMY-355@359	Dummy node created for missing pipe connectivity for WWSMP 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2
DUMMY-3611@8689	Dummy node created for missing pipe connectivity for WWSMP 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2
DUMMY-3631	Dummy node created for missing pipe connectivity for WWSMP 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2
DUMMY-3633_A	Dummy node created for missing pipe connectivity for WWSMP 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2
DUMMY-3633_B	Dummy node created for missing pipe connectivity for WWSMP 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2
DUMMY-3634_A	Dummy node created for missing pipe connectivity for WWSMP 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2
DUMMY-3634_B	Dummy node created for missing pipe connectivity for WWSMP 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2
DUMMY-3677@8458	Dummy node created for missing pipe connectivity for WWSMP 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2
DUMMY-3682@8324	Dummy node created for missing pipe connectivity for WWSMP 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2
DUMMY-3683@8317	Dummy node created for missing pipe connectivity for WWSMP 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2
DUMMY-3717@8465	Dummy node created for missing pipe connectivity for WWSMP 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2
DUMMY-3752@9364	Dummy node created for missing pipe connectivity for WWSMP 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2
DUMMY-3759@3779	Dummy node created for missing pipe connectivity for WWSMP 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2
DUMMY-3779@3776	Dummy node created for missing pipe connectivity for WWSMP 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2
DUMMY-3844@8264	Dummy node created for missing pipe connectivity for WWSMP 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2
DUMMY-4069@4071	Dummy node created for missing pipe connectivity for WWSMP 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2
DUMMY-4151@9074	Dummy node created for missing pipe connectivity for WWSMP 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2
DUMMY-4156@4153	Dummy node created for missing pipe connectivity for WWSMP 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2
DUMMY-4164@9073	Dummy node created for missing pipe connectivity for WWSMP 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2
DUMMY-4167@8174	Dummy node created for missing pipe connectivity for WWSMP 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2
DUMMY-4181@9072	Dummy node created for missing pipe connectivity for WWSMP 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2
DUMMY-4187@4214	Dummy node created for missing pipe connectivity for WWSMP 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2
DUMMY-4189	Dummy node created for missing pipe connectivity for WWSMP 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2
DUMMY-4190	Dummy node created for missing pipe connectivity for WWSMP 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2
DUMMY-4198@9101	Dummy node created for missing pipe connectivity for WWSMP 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2
DUMMY-4206@8410	Dummy node created for missing pipe connectivity for WWSMP 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2
DUMMY-4211@8411	Dummy node created for missing pipe connectivity for WWSMP 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2
DUMMY-440@616	Dummy node created for missing pipe connectivity for WWSMP 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2
DUMMY-442@8532	Dummy node created for missing pipe connectivity for WWSMP 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2
DUMMY-443@8527	Dummy node created for missing pipe connectivity for WWSMP 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2
DUMMY-4442@8821	Dummy node created for missing pipe connectivity for WWSMP 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2
DUMMY-446@8153	Dummy node created for missing pipe connectivity for WWSMP 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2
DUMMY-4463@8488	Dummy node created for missing pipe connectivity for WWSMP 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2
DUMMY-4466@7400	Dummy node created for missing pipe connectivity for WWSMP 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2
DUMMY-447@8152	Dummy node created for missing pipe connectivity for WWSMP 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2
DUMMY-4498@8398	Dummy node created for missing pipe connectivity for WWSMP 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2
DUMMY-4544@8769	Dummy node created for missing pipe connectivity for WWSMP 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2
DUMMY-4566@8772	Dummy node created for missing pipe connectivity for WWSMP 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2
DUMMY-4575@8422	Dummy node created for missing pipe connectivity for WWSMP 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2
DUMMY-465@479	Dummy node created for missing pipe connectivity for WWSMP 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2

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JUNCTION ID	ID_SOURCE	INVERT_SOURCE	RIM_SOURCE
DUMMY-471@474	Dummy node created for missing pipe connectivity for WWSMP 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
DUMMY-4815@4814	Dummy node created for missing pipe connectivity for WWSMP 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
DUMMY-4834@9332	Dummy node created for missing pipe connectivity for WWSMP 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
DUMMY-4866@9577	Dummy node created for missing pipe connectivity for WWSMP 2020	Infered from lowest connecting pipe invert	Barton Estates SPS Drawings
DUMMY-4884@4887	Dummy node created for missing pipe connectivity for WWSMP 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
DUMMY-491@9371	Dummy node created for missing pipe connectivity for WWSMP 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
DUMMY-5029@5030	Dummy node created for missing pipe connectivity for WWSMP 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
DUMMY-511@8528	Dummy node created for missing pipe connectivity for WWSMP 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
DUMMY-5236	Dummy node created for missing pipe connectivity for WWSMP 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
DUMMY-531@9373	Dummy node created for missing pipe connectivity for WWSMP 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
DUMMY-532@9374	Dummy node created for missing pipe connectivity for WWSMP 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
DUMMY-5337	Dummy node created for missing pipe connectivity for WWSMP 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
DUMMY-5337@5339	Dummy node created for missing pipe connectivity for WWSMP 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
DUMMY-5338@5337	Dummy node created for missing pipe connectivity for WWSMP 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
DUMMY-535@537	Dummy node created for missing pipe connectivity for WWSMP 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
DUMMY-5436@8441	Dummy node created for missing pipe connectivity for WWSMP 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
DUMMY-545@547	Dummy node created for missing pipe connectivity for WWSMP 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
DUMMY-5457@5458	Dummy node created for missing pipe connectivity for WWSMP 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
DUMMY-5572@5570	Dummy node created for missing pipe connectivity for WWSMP 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
DUMMY-5574	Dummy node created for missing pipe connectivity for WWSMP 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
DUMMY-5575	Dummy node created for missing pipe connectivity for WWSMP 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
DUMMY-5676@5677	Dummy node created for missing pipe connectivity for WWSMP 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
DUMMY-5941@6737	Dummy node created for missing pipe connectivity for WWSMP 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
DUMMY-596@8154	Dummy node created for missing pipe connectivity for WWSMP 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
DUMMY-6053	Dummy node created for missing pipe connectivity for WWSMP 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
DUMMY-6053@3510	Dummy node created for missing pipe connectivity for WWSMP 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
DUMMY-6128@5263	Dummy node created for missing pipe connectivity for WWSMP 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
DUMMY-616@8535	Dummy node created for missing pipe connectivity for WWSMP 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
DUMMY-6399@6992	Dummy node created for missing pipe connectivity for WWSMP 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
DUMMY-6737@109388	Dummy node created for missing pipe connectivity for WWSMP 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
DUMMY-6743@8120	Dummy node created for missing pipe connectivity for WWSMP 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
DUMMY-6747@2532	Dummy node created for missing pipe connectivity for WWSMP 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
DUMMY-6825@5857	Dummy node created for missing pipe connectivity for WWSMP 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
DUMMY-6852@6853	Dummy node created for missing pipe connectivity for WWSMP 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
DUMMY-6878@6879	Dummy node created for missing pipe connectivity for WWSMP 2020	Infered from lowest connecting pipe invert	Terraview SPS Drawings
DUMMY-6880@9578	Dummy node created for missing pipe connectivity for WWSMP 2020	Infered from lowest connecting pipe invert	Terraview SPS Drawings
DUMMY-6934@6315	Dummy node created for missing pipe connectivity for WWSMP 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
DUMMY-6956@6955	Dummy node created for missing pipe connectivity for WWSMP 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
DUMMY-6957@6149	Dummy node created for missing pipe connectivity for WWSMP 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
DUMMY-6987@6412	Dummy node created for missing pipe connectivity for WWSMP 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
DUMMY-707@1190	Dummy node created for missing pipe connectivity for WWSMP 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
DUMMY-7225@4803	Dummy node created for missing pipe connectivity for WWSMP 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
DUMMY-7259@6423	Dummy node created for missing pipe connectivity for WWSMP 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
DUMMY-7270@6319	Dummy node created for missing pipe connectivity for WWSMP 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
DUMMY-7302@7226	Dummy node created for missing pipe connectivity for WWSMP 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
DUMMY-7317@8773	Dummy node created for missing pipe connectivity for WWSMP 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020

JUNCTION ID	ID_SOURCE	INVERT_SOURCE	RIM_SOURCE
DUMMY-7320@7321	Dummy node created for missing pipe connectivity for WWSMP 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
DUMMY-7365@992	Dummy node created for missing pipe connectivity for WWSMP 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
DUMMY-7375@1423	Dummy node created for missing pipe connectivity for WWSMP 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
DUMMY-7388@6965	Dummy node created for missing pipe connectivity for WWSMP 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
DUMMY-7449@9586	Dummy node created for missing pipe connectivity for WWSMP 2020	Infered from lowest connecting pipe invert	Kortright Heights SPS Drawings
DUMMY-7451@8775	Dummy node created for missing pipe connectivity for WWSMP 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
DUMMY-7464@7461	Dummy node created for missing pipe connectivity for WWSMP 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
DUMMY-7478@9255	Dummy node created for missing pipe connectivity for WWSMP 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
DUMMY-7507@6641	Dummy node created for missing pipe connectivity for WWSMP 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
DUMMY-7538@7151	Dummy node created for missing pipe connectivity for WWSMP 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
DUMMY-7577@7468	Dummy node created for missing pipe connectivity for WWSMP 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
DUMMY-7721@7722	Dummy node created for missing pipe connectivity for WWSMP 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
DUMMY-7746@7809	Dummy node created for missing pipe connectivity for WWSMP 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
DUMMY-7783@8080	Dummy node created for missing pipe connectivity for WWSMP 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
DUMMY-7791@7165	Dummy node created for missing pipe connectivity for WWSMP 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
DUMMY-7803@7762	Dummy node created for missing pipe connectivity for WWSMP 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
DUMMY-7804@7751	Dummy node created for missing pipe connectivity for WWSMP 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
DUMMY-7811@8106	Dummy node created for missing pipe connectivity for WWSMP 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
DUMMY-7816@7815	Dummy node created for missing pipe connectivity for WWSMP 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
DUMMY-7825@6506	Dummy node created for missing pipe connectivity for WWSMP 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
DUMMY-7863@8060	Dummy node created for missing pipe connectivity for WWSMP 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
DUMMY-7963@7967	Dummy node created for missing pipe connectivity for WWSMP 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
DUMMY-7970@7269	Dummy node created for missing pipe connectivity for WWSMP 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
DUMMY-8038@8034	Dummy node created for missing pipe connectivity for WWSMP 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
DUMMY-8076@7848	Dummy node created for missing pipe connectivity for WWSMP 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
DUMMY-8078@7847	Dummy node created for missing pipe connectivity for WWSMP 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
DUMMY-8104@7272	Dummy node created for missing pipe connectivity for WWSMP 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
DUMMY-8112@9575	Dummy node created for missing pipe connectivity for WWSMP 2020	Infered from lowest connecting pipe invert	Northern Heights SPS Drawings
DUMMY-8174@8175	Dummy node created for missing pipe connectivity for WWSMP 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
DUMMY-8235@7273	Dummy node created for missing pipe connectivity for WWSMP 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
DUMMY-825@8789	Dummy node created for missing pipe connectivity for WWSMP 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
DUMMY-8276@8696	Dummy node created for missing pipe connectivity for WWSMP 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
DUMMY-8303@7693	Dummy node created for missing pipe connectivity for WWSMP 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
DUMMY-8311@8539	Dummy node created for missing pipe connectivity for WWSMP 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
DUMMY-8316@8325	Dummy node created for missing pipe connectivity for WWSMP 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
DUMMY-832@8792	Dummy node created for missing pipe connectivity for WWSMP 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
DUMMY-8323@1376	Dummy node created for missing pipe connectivity for WWSMP 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
DUMMY-8367@309	Dummy node created for missing pipe connectivity for WWSMP 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
DUMMY-8376@273	Dummy node created for missing pipe connectivity for WWSMP 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
DUMMY-8470@7513	Dummy node created for missing pipe connectivity for WWSMP 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
DUMMY-852@8797	Dummy node created for missing pipe connectivity for WWSMP 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
DUMMY-8531@615	Dummy node created for missing pipe connectivity for WWSMP 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
DUMMY-8618@8552	Dummy node created for missing pipe connectivity for WWSMP 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
DUMMY-8683@8305	Dummy node created for missing pipe connectivity for WWSMP 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
DUMMY-8692@6514	Dummy node created for missing pipe connectivity for WWSMP 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
DUMMY-8708@8693	Dummy node created for missing pipe connectivity for WWSMP 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020

JUNCTION ID	ID_SOURCE	INVERT_SOURCE	RIM_SOURCE
DUMMY-8743@8282	Dummy node created for missing pipe connectivity for WWSMP 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
DUMMY-8750@8281	Dummy node created for missing pipe connectivity for WWSMP 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
DUMMY-8751@8277	Dummy node created for missing pipe connectivity for WWSMP 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
DUMMY-8770@4478	Dummy node created for missing pipe connectivity for WWSMP 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
DUMMY-8774@8403	Dummy node created for missing pipe connectivity for WWSMP 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
DUMMY-8788	Dummy node created for missing pipe connectivity for WWSMP 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
DUMMY-8796@1676	Dummy node created for missing pipe connectivity for WWSMP 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
DUMMY-8808@7256	Dummy node created for missing pipe connectivity for WWSMP 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
DUMMY-8809@8386	Dummy node created for missing pipe connectivity for WWSMP 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
DUMMY-8820@4455	Dummy node created for missing pipe connectivity for WWSMP 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
DUMMY-8859@7971	Dummy node created for missing pipe connectivity for WWSMP 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
DUMMY-8888@8480	Dummy node created for missing pipe connectivity for WWSMP 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
DUMMY-8909@8908	Dummy node created for missing pipe connectivity for WWSMP 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
DUMMY-8970@8223	Dummy node created for missing pipe connectivity for WWSMP 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
DUMMY-8978@9215	Dummy node created for missing pipe connectivity for WWSMP 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
DUMMY-8982	Dummy node created for missing pipe connectivity for WWSMP 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
DUMMY-9003@9292	Dummy node created for missing pipe connectivity for WWSMP 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
DUMMY-9004@9003	Dummy node created for missing pipe connectivity for WWSMP 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
DUMMY-910@9387	Dummy node created for missing pipe connectivity for WWSMP 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
DUMMY-9148@9124	Dummy node created for missing pipe connectivity for WWSMP 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
DUMMY-9223@8971	Dummy node created for missing pipe connectivity for WWSMP 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
DUMMY-9239@9225	Dummy node created for missing pipe connectivity for WWSMP 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
DUMMY-927@8433	Dummy node created for missing pipe connectivity for WWSMP 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
DUMMY-9281@9066	Dummy node created for missing pipe connectivity for WWSMP 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
DUMMY-9282@9059	Dummy node created for missing pipe connectivity for WWSMP 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
DUMMY-9283@9060	Dummy node created for missing pipe connectivity for WWSMP 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
DUMMY-94@93	Dummy node created for missing pipe connectivity for WWSMP 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
DUMMY-9433@9234	Dummy node created for missing pipe connectivity for WWSMP 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
DUMMY-9511@9360	Dummy node created for missing pipe connectivity for WWSMP 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
DUMMY-952@954	Dummy node created for missing pipe connectivity for WWSMP 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
DUMMY-9576@9470	Dummy node created for missing pipe connectivity for WWSMP 2020	Infered from lowest connecting pipe invert	Northern Heights SPS Drawings
DUMMY-9579@4821	Dummy node created for missing pipe connectivity for WWSMP 2020	Infered from lowest connecting pipe invert	Gordon Street SPS Drawings
DUMMY-9587@7450	Dummy node created for missing pipe connectivity for WWSMP 2020	Infered from lowest connecting pipe invert	Kortright Heights SPS Drawings
DUMMY-993@7364	Dummy node created for missing pipe connectivity for WWSMP 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
DUMMY-US-START@1025	Dummy node created for missing pipe connectivity for WWSMP 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
DUMMY-US-START@1028	Dummy node created for missing pipe connectivity for WWSMP 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
DUMMY-US-START@108271	Dummy node created for missing pipe connectivity for WWSMP 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
DUMMY-US-START@1155	Dummy node created for missing pipe connectivity for WWSMP 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
DUMMY-US-START@1319	Dummy node created for missing pipe connectivity for WWSMP 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
DUMMY-US-START@1323	Dummy node created for missing pipe connectivity for WWSMP 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
DUMMY-US-START@139	Dummy node created for missing pipe connectivity for WWSMP 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
DUMMY-US-START@1493	Dummy node created for missing pipe connectivity for WWSMP 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
DUMMY-US-START@1501	Dummy node created for missing pipe connectivity for WWSMP 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
DUMMY-US-START@167	Dummy node created for missing pipe connectivity for WWSMP 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
DUMMY-US-START@171	Dummy node created for missing pipe connectivity for WWSMP 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
DUMMY-US-START@1825	Dummy node created for missing pipe connectivity for WWSMP 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020

JUNCTION ID	ID_SOURCE	INVERT_SOURCE	RIM_SOURCE
DUMMY-US-START@1866	Dummy node created for missing pipe connectivity for WWSMP 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
DUMMY-US-START@1867	Dummy node created for missing pipe connectivity for WWSMP 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
DUMMY-US-START@1882	Dummy node created for missing pipe connectivity for WWSMP 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
DUMMY-US-START@1898	Dummy node created for missing pipe connectivity for WWSMP 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
DUMMY-US-START@2158	Dummy node created for missing pipe connectivity for WWSMP 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
DUMMY-US-START@2251	Dummy node created for missing pipe connectivity for WWSMP 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
DUMMY-US-START@236	Dummy node created for missing pipe connectivity for WWSMP 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
DUMMY-US-START@2424	Dummy node created for missing pipe connectivity for WWSMP 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
DUMMY-US-START@2514	Dummy node created for missing pipe connectivity for WWSMP 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
DUMMY-US-START@2516	Dummy node created for missing pipe connectivity for WWSMP 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
DUMMY-US-START@264	Dummy node created for missing pipe connectivity for WWSMP 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
DUMMY-US-START@2744	Dummy node created for missing pipe connectivity for WWSMP 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
DUMMY-US-START@2770	Dummy node created for missing pipe connectivity for WWSMP 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
DUMMY-US-START@2774	Dummy node created for missing pipe connectivity for WWSMP 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
DUMMY-US-START@2804	Dummy node created for missing pipe connectivity for WWSMP 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
DUMMY-US-START@2814	Dummy node created for missing pipe connectivity for WWSMP 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
DUMMY-US-START@2825	Dummy node created for missing pipe connectivity for WWSMP 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
DUMMY-US-START@2827	Dummy node created for missing pipe connectivity for WWSMP 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
DUMMY-US-START@286	Dummy node created for missing pipe connectivity for WWSMP 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
DUMMY-US-START@296	Dummy node created for missing pipe connectivity for WWSMP 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
DUMMY-US-START@3000	Dummy node created for missing pipe connectivity for WWSMP 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
DUMMY-US-START@3060	Dummy node created for missing pipe connectivity for WWSMP 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
DUMMY-US-START@3079	Dummy node created for missing pipe connectivity for WWSMP 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
DUMMY-US-START@3090	Dummy node created for missing pipe connectivity for WWSMP 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
DUMMY-US-START@3179	Dummy node created for missing pipe connectivity for WWSMP 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
DUMMY-US-START@3200	Dummy node created for missing pipe connectivity for WWSMP 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
DUMMY-US-START@3405	Dummy node created for missing pipe connectivity for WWSMP 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
DUMMY-US-START@3449	Dummy node created for missing pipe connectivity for WWSMP 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
DUMMY-US-START@3483	Dummy node created for missing pipe connectivity for WWSMP 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
DUMMY-US-START@3620	Dummy node created for missing pipe connectivity for WWSMP 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
DUMMY-US-START@3646	Dummy node created for missing pipe connectivity for WWSMP 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
DUMMY-US-START@3843	Dummy node created for missing pipe connectivity for WWSMP 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
DUMMY-US-START@4088	Dummy node created for missing pipe connectivity for WWSMP 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
DUMMY-US-START@4110	Dummy node created for missing pipe connectivity for WWSMP 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
DUMMY-US-START@4121	Dummy node created for missing pipe connectivity for WWSMP 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
DUMMY-US-START@4143	Dummy node created for missing pipe connectivity for WWSMP 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
DUMMY-US-START@4228	Dummy node created for missing pipe connectivity for WWSMP 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
DUMMY-US-START@4249	Dummy node created for missing pipe connectivity for WWSMP 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
DUMMY-US-START@4255	Dummy node created for missing pipe connectivity for WWSMP 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
DUMMY-US-START@4260	Dummy node created for missing pipe connectivity for WWSMP 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
DUMMY-US-START@4269	Dummy node created for missing pipe connectivity for WWSMP 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
DUMMY-US-START@4276	Dummy node created for missing pipe connectivity for WWSMP 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
DUMMY-US-START@437	Dummy node created for missing pipe connectivity for WWSMP 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
DUMMY-US-START@4373	Dummy node created for missing pipe connectivity for WWSMP 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
DUMMY-US-START@4397	Dummy node created for missing pipe connectivity for WWSMP 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
DUMMY-US-START@4418	Dummy node created for missing pipe connectivity for WWSMP 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020

JUNCTION ID	ID_SOURCE	INVERT_SOURCE	RIM_SOURCE
DUMMY-US-START@4781	Dummy node created for missing pipe connectivity for WWSMP 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
DUMMY-US-START@4784	Dummy node created for missing pipe connectivity for WWSMP 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
DUMMY-US-START@4901	Dummy node created for missing pipe connectivity for WWSMP 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
DUMMY-US-START@50	Dummy node created for missing pipe connectivity for WWSMP 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
DUMMY-US-START@5023	Dummy node created for missing pipe connectivity for WWSMP 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
DUMMY-US-START@5024	Dummy node created for missing pipe connectivity for WWSMP 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
DUMMY-US-START@5196	Dummy node created for missing pipe connectivity for WWSMP 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
DUMMY-US-START@5256	Dummy node created for missing pipe connectivity for WWSMP 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
DUMMY-US-START@5309	Dummy node created for missing pipe connectivity for WWSMP 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
DUMMY-US-START@5345	Dummy node created for missing pipe connectivity for WWSMP 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
DUMMY-US-START@5415	Dummy node created for missing pipe connectivity for WWSMP 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
DUMMY-US-START@5548	Dummy node created for missing pipe connectivity for WWSMP 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
DUMMY-US-START@5577	Dummy node created for missing pipe connectivity for WWSMP 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
DUMMY-US-START@5579	Dummy node created for missing pipe connectivity for WWSMP 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
DUMMY-US-START@5580	Dummy node created for missing pipe connectivity for WWSMP 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
DUMMY-US-START@5699	Dummy node created for missing pipe connectivity for WWSMP 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
DUMMY-US-START@6054	Dummy node created for missing pipe connectivity for WWSMP 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
DUMMY-US-START@6104	Dummy node created for missing pipe connectivity for WWSMP 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
DUMMY-US-START@6221	Dummy node created for missing pipe connectivity for WWSMP 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
DUMMY-US-START@64	Dummy node created for missing pipe connectivity for WWSMP 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
DUMMY-US-START@6493	Dummy node created for missing pipe connectivity for WWSMP 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
DUMMY-US-START@6494	Dummy node created for missing pipe connectivity for WWSMP 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
DUMMY-US-START@6510	Dummy node created for missing pipe connectivity for WWSMP 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
DUMMY-US-START@6994	Dummy node created for missing pipe connectivity for WWSMP 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
DUMMY-US-START@7190	Dummy node created for missing pipe connectivity for WWSMP 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
DUMMY-US-START@7257	Dummy node created for missing pipe connectivity for WWSMP 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
DUMMY-US-START@7306	Dummy node created for missing pipe connectivity for WWSMP 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
DUMMY-US-START@7469	Dummy node created for missing pipe connectivity for WWSMP 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
DUMMY-US-START@7480	Dummy node created for missing pipe connectivity for WWSMP 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
DUMMY-US-START@7491	Dummy node created for missing pipe connectivity for WWSMP 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
DUMMY-US-START@7969	Dummy node created for missing pipe connectivity for WWSMP 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
DUMMY-US-START@8293	Dummy node created for missing pipe connectivity for WWSMP 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
DUMMY-US-START@84	Dummy node created for missing pipe connectivity for WWSMP 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
DUMMY-US-START@8436	Dummy node created for missing pipe connectivity for WWSMP 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
DUMMY-US-START@8504	Dummy node created for missing pipe connectivity for WWSMP 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
DUMMY-US-START@8561	Dummy node created for missing pipe connectivity for WWSMP 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
DUMMY-US-START@8847	Dummy node created for missing pipe connectivity for WWSMP 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
DUMMY-US-START@89	Dummy node created for missing pipe connectivity for WWSMP 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
DUMMY-US-START@8907	Dummy node created for missing pipe connectivity for WWSMP 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
DUMMY-US-START@9005	Dummy node created for missing pipe connectivity for WWSMP 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
DUMMY-US-START@906	Dummy node created for missing pipe connectivity for WWSMP 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
DUMMY-US-START@9063	Dummy node created for missing pipe connectivity for WWSMP 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
DUMMY-US-START@9065	Dummy node created for missing pipe connectivity for WWSMP 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
DUMMY-US-START@9112	Dummy node created for missing pipe connectivity for WWSMP 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
DUMMY-US-START@916	Dummy node created for missing pipe connectivity for WWSMP 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
DUMMY-US-START@9310	Dummy node created for missing pipe connectivity for WWSMP 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020

JUNCTION ID	ID_SOURCE	INVERT_SOURCE	RIM_SOURCE
DUMMY-US-START@9319	Dummy node created for missing pipe connectivity for WWSMP 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
DUMMY-US-START@9325	Dummy node created for missing pipe connectivity for WWSMP 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
DUMMY-US-START@9348	Dummy node created for missing pipe connectivity for WWSMP 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
DUMMY-US-START@9349	Dummy node created for missing pipe connectivity for WWSMP 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
DUMMY-US-START@9352	Dummy node created for missing pipe connectivity for WWSMP 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
DUMMY-US-START@9356	Dummy node created for missing pipe connectivity for WWSMP 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
DUMMY-US-START@9385	Dummy node created for missing pipe connectivity for WWSMP 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
DUMMY-US-START@9419	Dummy node created for missing pipe connectivity for WWSMP 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
DUMMY-US-START@9515	Dummy node created for missing pipe connectivity for WWSMP 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
DUMMY-US-START@9545	Dummy node created for missing pipe connectivity for WWSMP 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
DUMMY-US-START@968	Dummy node created for missing pipe connectivity for WWSMP 2020	Infered from lowest connecting pipe invert	DEM received from City on May 19, 2020
NiMa_Trails_Temporary_SPS_Outlet	Dummy node created for missing pipe connectivity for WWSMP 2020	Infered from lowest connecting pipe invert	Engineering judgment for WWSMP 2020
Rockwood	Dummy node created for missing pipe connectivity for WWSMP 2020	Infered from lowest connecting pipe invert	#N/A
Terraview_SPS	Dummy node created for missing pipe connectivity for WWSMP 2020	Infered from lowest connecting pipe invert	Terraview SPS Drawings



APPENDIX C

Capital Works Updates

Project No	Project Description	Contract No	Contract Description	Date of Installation	Record Drawings Status	Model Pipe ID Start	Model Pipe ID End	Implemented in Model?
WW-I-2	Replace Stevenson Trunk	2-1005	Stevenson York Rd to Elizabeth	2010	Completed	8405	8423	Υ
WW-I-1	Twinning and replacement of existing York Trunk from east of Hanlon to Victoria	2-1412	York Trunk Sewer and Paisley Clythe Watermain: From Waterloo Ave to across the Speed River	2015	Completed	9100	9078	Y
WW-I-2	Replace Stevenson Trunk	2-1515	Stevenson: Grange to Elizabeth	2015	Completed	9071	9281	Y
WW-I-21	Arthur Trunk from Elizabeth Street to York Trunk	2-1514	Stage 1: Wyndham St. Reconstruction from York Rd. to the bridge at Speed River	2016	Completed	9056	9060	Y
WW-I-2	Replace Stevenson Trunk	2-1609	Stevenson: Grange to Bennett	December 2016	Completed	9267	9278	Υ
WW-I-21	Arthur Trunk from Elizabeth Street to York Trunk	2-1611	Howitt St. Reconstruction: Wyndham St. to Neeve St.	2017	Completed	9289	9283	Υ
WW-I-3	Replace Speed Trunk from East of Hanlon to Yorkshire St S	2-1614	Bristol St. Reconstruction Ph. 1 from Edinburgh Rd. S. to East of Holliday St.	June 28, 2017	Completed	9241	9256	Y
WW-I-1	Twinning and replacement of existing York Trunk from east of Hanlon to Victoria	2-1606	York Trunk and Paisley-Clythe Watermain Phase 2A	January 2, 2018	Not Finished	9525	9543	Y
WW-I-19	Add connection to York Trunk from 1050 mm, along Waterworks Pl. from York Rd. to Royal Recreation Trail (part of contract 2-1606)	2-1606	York Trunk and Paisley-Clythe Watermain Phase 2A	January 2, 2018	Not Finished	4427	9545	N Drawings not available
WW-I-21	Arthur Trunk from Elizabeth Street to York Trunk	2-1708	Neeve St. and Cross St. Reconstruction Phase III: Howitt St. to Cross St. to Arthur St.	2018	Completed	9367	9360	Y Implemented in existing conditions model (siphon and river crossing maintained, but disconnected from upstream areas)
WW-I-3	Replace Speed Trunk from East of Hanlon to Yorkshire St S	2-1723	Bristol Street Trunk Sewer - Phase 2 - Yorkshire / Wellington	November 30, 2018	Not Finished	9455	9469	Y
WW-I-4	Paisley Feedermain Project: Sanitary sewers on Silvercreek Pkwy. S. converge with Waterloo Trunk sewer and drain to the same outlet [Hanlon Crossing]	2-1812	Paisley Feedermain: From Waterloo Avenue to Paisley Road	March 22, 2019	Not Finished	-	-	N Drawings not available
WW-I-4	Paisley Feedermain Project: Sanitary sewers on Silvercreek Pkwy. S. converge with Waterloo Trunk sewer and drain to the same outlet [Hanlon Crossing]	2-1905	Paisley Feedermain Phase II Silvercreek to Reservoir	April 12, 2019	Not Finished	-	-	N Drawings not available
WW-I-1	Twinning and replacement of existing York Trunk from east of Hanlon to Victoria	2-1717	York Trunk Sewer Phase 2B: Waterworks Pl to Victoria Rd S	January 2020	Not Finished	4477	4302	Y Implemented in existing conditions model
WW-I-21	Arthur Trunk from Elizabeth Street to York Trunk	2-1908	Stage 5: Arthur St. Reconstruction from MacDonell St. to 170m South on Arthur St.	September 2020	Not Finished	3837	3828	Y Implemented in existing conditions model (siphon and river crossing maintained, but disconnected from upstream areas)
vv vv-1-4	Paisiey Feedermain Project: Sanitary sewers on Silvercreek Pkwy. S. converge with Waterloo Trunk sewer and drain to the same outlet [Hanlon Crossing]	-	Paisley Phase III- Hanion to Reservoir	2021	NOT FINISNED	-	-	N Drawings not available

Project No	Project Description	Contract No	Contract Description	Date of Installation	Record Drawings Status	Model Pipe ID Start	Model Pipe ID End	Implemented in Model?
WW-I-7	Speedvale Collector from Arthur Trunk to Metcalf	PN0097	Speedvale Ph1 Glenwood to Marborough	2021	-	-	-	N Drawings not available
WW-I-2	Replace Stevenson Trunk	2-2006	Stevenson: Eramosa to Bennett	June 2021	Not Finished	4060	4051	N Drawings not available
WW-I-7	Speedvale Collector from Arthur Trunk to Metcalf	PN0097	Speedvale Ph2 Marlborough to beyond Delhi	2022	-	-	-	N Drawings not available
WW-I-7	Speedvale Collector from Arthur Trunk to Metcalf	PN0097	Speedvale Ph3 Delhi to Manhattan Ct	2023	-	-	-	N Drawings not available
WW-I-8	Replace Water St Collector	PN0102	Water- Maple / Gordon (Ww-I-8) Water St from Maple St to Gordon St	2023	-	-	-	N Drawings not available
W-I-1A	Add parallel pipe on Wellington St W	PN0107	Parallel Pipe East of Hanlon to Wastewater Treatment Plant	2025	-	-	-	N Drawings not available
WW-I-5	Replace Yorkshire Trunk (including Trunk Relief Lines)	PN0090	-	2025	-	-	-	N Drawings not available
WW-I-5	Replace Yorkshire Trunk (including Trunk Relief Lines)	PN0091	-	2027	-	-	-	N Drawings not available
WW-I-5	Replace Yorkshire Trunk (including Trunk Relief Lines)	PN0092	-	2028	-	-	-	N Drawings not available
WW-I-12	Siphon improvements (2 siphons 450 mm in diam.)- Edinburgh Rd. S. to Royal recreation Trail (Crossing wellington St. W. and Speed River) to Bristol	-	-	2028	-	-	-	N Drawings not available
WW-I-5	Replace Yorkshire Trunk (including Trunk Relief Lines)	PN0093	-	2029	-	-	-	N Drawings not available
WW-I-5	Replace Yorkshire Trunk (including Trunk Relief Lines)	PN0094	-	2030	-	-	-	N Drawings not available
WW-I-5	Replace Yorkshire Trunk (including Trunk Relief Lines)	PN0095	-	2031	-	-	-	N Drawings not available
WW-I-4	Replace Waterloo Trunk from Yorkshire St S to East of Hanlon	PN0103	Waterloo Street- Silvercreek / Yorkshire	2034	Not Finished	-	-	N Drawings not available
WW-I-20	Monticello Cr. From north of Stone Rd. E to Dimson Av.	PN0089	Montcll:Stevenson / Dmsn Avenue (Ww-I-20)	2038	-	-	-	N Drawings not available
WW-I-3	Replace Speed Trunk from East of Hanlon to Yorkshire St S	PN0073	Bristol Street Trunk Sewer Upgrades	On Hold	Not Finished	-	-	N Drawings not available
WW-I-18	Upsize pipe along Yorkshire St. N from Bristol St. to Waterloo Ave	2-1723	No road reconstruction done, only some pipe work was done on Holliday St. as part of 2-1723 Bristol Ph2	-	-	-	-	N Drawings not available
WW-I-21	Arthur Trunk from Elizabeth Street to York Trunk	2-1804	Arthur St. Reconstruction from Elizabeth St. to Cross St. (Watermain only)		Draft	9502	9511	Y

WW-I-1 Twinning and replacement of existing York Trunk from east of Hanlon to Victoria



- 2-1412 York Trunk Sewer and Paisley Clythe Watermain: From Waterloo Ave to across the Speed River (Installed in 2015)
- 2-1606 York Trunk and Paisley-Clythe Watermain Phase 2A ('Live' since January 2nd, 2018) Record Drawings not finished
- 2-1717 York Trunk Sewer Phase 2B: Waterworks Pl to Victoria Rd S ('Live' since January 2020) Record Drawings not finished

WW-I-19 Add connection to York Trunk from 1050 mm, along Waterworks Pl. from York Rd. to Royal Recreation Trail (part of contract 2-1606)



WW-I-2 Replace Stevenson Trunk



- 2-2006 Stevenson: Eramosa to Bennett- Approximate completion: June 2021
- 2-1609: Stevenson: Grange to Bennett, (installed in Dec 2016)
- 2-1515: Stevenson: Grange to Elizabeth (installed in 2015)
- 2-1005: Stevenson York Rd to Elizabeth (installed in 2010)

WW-I-3 Replace Speed Trunk from East of Hanlon to Yorkshire St S



Western Portion: Bristol Street Trunk Sewer Upgrades (WW-I-3) PN0073: On hold until Master Plan is updated- Alignment as shown in right of way is not feasible with current road profile [not enough fall on pipe to provide adequate cover]

Eastern Portion:

2-1614 Bristol St. Reconstruction Ph. 1 from Edinburgh Rd. S. to East of Holliday St. ('Live' in June 28th, 2017) 2-1723 Bristol Street Trunk Sewer -Phase 2 - Yorkshire / Wellington ('Live' in November 30th, 2018) Record Drawings not finished

WW-I-4 Replace Waterloo Trunk from Yorkshire St S to East of Hanlon

PN0103 Waterloo Street- Silvercreek / Yorkshire Planned 2034



Paisley Feedermain Project: Sanitary sewers on Silvercreek Pkwy. S. converge with Waterloo Trunk sewer and drain to the same outlet [Hanlon Crossing]

- Paisley Phase III- Hanlon to Reservoir (Construction planned for 2021)
- 2-1905 Paisley Feedermain Phase II Silvercreek to Reservoir (Completion April 12th, 2019) Record Drawings not finished
- 2-1812 Paisley Feedermain: From Waterloo Avenue to Paisley Road ('Live' since March 22nd, 2019) Record Drawings not finished

WW-I-18 Upsize pipe along Yorkshire St. N from Bristol St. to Waterloo Ave

No road reconstruction done, only some pipe work was done on Holliday St. as part of 2-1723 Bristol Ph2



WW-I-5 Replace Yorkshire Trunk (including Trunk Relief Lines) – Planned



WW-I-21 Arthur Trunk from Elizabeth Street to York Trunk

- 2-1908 Stage 5: Arthur St. Reconstruction from MacDonell St. to 170m South on Arthur St. ('Live' September 2020) Record drawings not finished
- 2-1804 Stage 4: Arthur St. Reconstruction from Elizabeth St. to Cross St. (Watermain only) Draft As-built
- 2-1708 Neeve St. and Cross St. Reconstruction Phase III: Howitt St. to Cross St. to Arthur St. (Installed in 2018)
- 2-1611 Howitt St. Reconstruction: Wyndham St. to Neeve St. (Installed in 2017)
- 2-1514 Stage 1: Wyndham St. Reconstruction from York Rd. to the bridge at Speed River (Installed in 2016)





WW-I-7 Speedvale Collector from Arthur Trunk to Metcalf (Planned)

WW-I-8 Replace Water St Collector

PN0102 Water- Maple / Gordon (Ww-I-8) Water St from Maple St to Gordon St Western portion planned for 2023



WW-I-20 Monticello Cr. From north of Stone Rd. E to Dimson Av.

PN0089 Montcll:Stevenson / Dmsn Avenue (Ww-I-20)

Construction planned for 2038



W-I-1A Add parallel pipe on Wellington St W

PN0107- Parallel Pipe East of Hanlon to Wastewater Treatment Plant (Design: 2023 Construction: 2025)

WW-I-12 Siphon improvements (2 siphons 450 mm in diam.)- Edinburgh Rd. S. to Royal recreation Trail (Crossing wellington St. W. and Speed River) to Bristol Construction planned for 2028





APPENDIX D

Flow Monitoring Scattergraphs





























APPENDIX E

Wastewater Calibration Results

FM10 CALIBRATION AND VALIDATION



FM10 CALIBRATION AND VALIDATION



FM11 CALIBRATION AND VALIDATION



FM12 CALIBRATION AND VALIDATION



FM13 CALIBRATION AND VALIDATION



FM14a CALIBRATION AND VALIDATION



FM14b CALIBRATION AND VALIDATION


FM15 CALIBRATION AND VALIDATION



FM16 CALIBRATION AND VALIDATION



FM16: WWF CALIBRATION - June 10, 2020 0.0 2.0 4.0 Rainfall (mm) 6.0 8.0 10.0 12.0 14.0 24 30 36 42 48 Time (Hours) Observed Flow — Modeled Flow FM16: WWF VALIDATION - May 29, 2020 0.0 2.0 4.0 Rainfall (mm) 6.0 8.0 10.0 12.0 14.0 42 24 36 30 48 Time (Hours) -----RG02 ------Observed Flow ------Modeled Flow

FM17 CALIBRATION AND VALIDATION



FM18 CALIBRATION AND VALIDATION



FM19 CALIBRATION AND VALIDATION



FM20 CALIBRATION AND VALIDATION





FM20 CALIBRATION AND VALIDATION



FM21 CALIBRATION AND VALIDATION



FM21 CALIBRATION AND VALIDATION

