Lisbon Sanitary District # 1
Regular Meeting
September 18, 2019 7:30 PM
Lisbon Town Hall
W234N8676 Woodside Rd,
Sussex, WI 53089

Dennis Golner called the meeting to order at 7:30 P.M.

**ROLL CALL**

Dennis Golner, Mark Vesley and Linda Beal present.

**APPROVAL OF THE MINUTES FROM THE JULY 25, 2019 SPECIAL MEETING AND THE AUGUST 21, 2019 REGULAR MEETING**

Linda Beal made a motion to approve the July 25, 2019 special meeting minutes and the August 21, 2019 regular meeting minutes as presented by Dennis Golner, seconded by Mark Vesley. All commissioners voted Aye. The motion passed.

**CITIZENS COMMENTS**

Citizens were in attendance. The following citizens spoke voicing their opinions: Sally Reamer, Henry Ray, Rick Lyons, Carl Russo, Dennis Pettke, Ed Brocker, Jim Evans, Scott Kozic, and Dan Brown. List of attendees (Attachment A).

**ENGINEERING REPORT (Attachment B)**

a) Richmond School
The lift station located at Richmond School had both pumps fail over Labor Day weekend. The lift station is in need of some major repairs.
Linda Beal made a motion to approve a budget not to exceed $15,000.00 to repair or replace one pump right away, seconded by Mark Vesley. All commissioners voted Aye. The motion passed.

b) Flow Meter
The cost for renting a flow meter on a monthly basis would be over $1,000.00 per month plus installation and recovery time. The cost to purchase a portable flow meter would be $14,262.55. The recommendation would be to rent a flow meter if one is needed.

c) Water flow as measured at the Jeanine metering station
All of the man holes were inspected in the Jeanine System and found that there are no chimney seals which could be contributing to the increased flows. Some sections are comprised of cast iron pipe which will need to be addressed in the future. Man hole #14 has a pick hole and rocking lid, will look into switching with the Districts' spare lid.
Linda Beal made a motion to approve $5,000.00 to repair man holes with internal/external chimney seals, seconded by Mark Vesley. All commissioners voted Aye. The motion passed.

d) Casey's Development
The developer for Casey's has been in touch looking for a written approval for the connection and the final amount for the connection fees. Michael Sargent is to put these items together and get to the developer. The developer will need to provide a schedule for the connection to take place.

e) Other
Digger's Hotline has been switched over.
GIS Mapping-Lynch had the maps online which will be turned off at some point in the near future. Kunkel to have quote on what it will cost to keep the maps online at the next meeting.

**DISCUSSION AND POSSIBLE ACTION ON POLICY FOR APPROPRIATE USE OF GRINDER PUMPS**

a) Report from Linda Beal
   Linda Beal gave her report on research she completed about surrounding communities and repair companies in regards to grinder pumps.

**DISCUSSION AND POSSIBLE ACTION ON RECENT CHANGES TO THE SEWER SERVICE CODE**

Discussion on potential split of cost between the District and the Homeowner was brought up. Attorney Hammes went through the Ordinance repealing and recreating Sec. 1.03(8) and creating section 1.14 relating to grinder pumps that he drafted per the board's direction at the last meeting. The resolution states that the grinder pumps are owned by the homeowner, but the district is responsible for the repairs and maintenance, except in the case of negligence where it can be assessed to the homeowner.

**POSSIBLE ACTION ON RESOLUTION FOR CHANGES TO THE SEWER SERVICE CODE**

Mark Vesley made a motion to adopt the Ordinance repealing and recreating Sec. 1.03(8) and creating section 1.14 as presented by Attorney Hammes (Attachment C), seconded by Dennis Golner. 2 commissioners voted Aye and 1 commissioner voted Naye. The motion passed.

**DISCUSSION ON PRELIMINARY BUDGET**

Michael Sargent presented the preliminary budget to bring the District to a break-even point. (Attachment D)

**DISCUSSION AND POSSIBLE ACTION REGARDING PROPOSED RATE STRUCTURE**

a) CONNECTION/HOOKUP FEES
b) COMMERCIAL RATES AND FEES
c) OTHER SEWER RATES AND FEES
d) TAX LEVY

Michael Sargent presented information for the proposed rates that would achieve the preliminary budget that was presented (Attachment E). A potential change to the contract with Willow Springs needs to be looked into to renegotiate the fixed charge. Michael Sargent was instructed to continue forward with the rate structure for next meeting.

**DISCUSSION OF COMPETITIVE BIDDING CONTRACTS FOR 2020**

a) Engineering
b) Accounting
c) Repairs and Maintenance for Lift Stations
d) Repairs and Maintenance for Grinder Pumps
e) Snow Plowing
   A list of companies that letters requesting bids were sent to was presented. (Attachment F)

**UPDATE ON LEID'S TIF DISTRICT**

There is nothing to report at this time.

**REPORT BY BOARD REPRESENTATIVE**

There is nothing to report at this time.

**CORRESPONDENCE (DISCUSSION ONLY)**

A copy of the cooperative plan between the Town of Lisbon and the Town of Brookfield was received.
The updated insurance policy was received.
The Work Comp Audit was received and completed.
The completed and graded CMAR was received.
WE Energy Study was included.

**APPROVAL OF CURRENT INVOICES**

Invoices totaling $36,992.98 were presented to be paid. (Attachment G)

Linda Beal made a motion to approve the current invoices totaling $36,992.98 as presented, seconded by Mark Vesley. All commissioners voted Aye. The motion passed.

**APPROVAL OF THE AUGUST 2019 FINANCIAL STATEMENT**

Linda Beal made a motion to approve the August 2019 financial statements as presented (Attachment H), seconded by Mark Vesley. All commissioners voted Aye. The motion passed.

**ITEMS TO BE PLACED ON FUTURE AGENDA**

a) Engineering report
    a. Richmond School
    b. Water flow as measured at the Jeanine Lift Station
    c. Casey's Development and Leid's Property
    d. GIS Mapping
b) Review of Ordinance for modification
c) Budget
d) Proposed rate structure
    a. Connection/Hookup fees
    b. Commercial rates and fees
    c. Other Sewer rates and fees
    d. Tax Levy
e) Review of Competitive Bidding Contracts
f) Update on Leid's Tiff District

**SET DATE FOR NEXT MEETING**

The October regular meeting was set for Wednesday October 16, 2019 at 7:30 P.M.

**ADJOURNMENT OF MEETING**

Mark Vesley made a motion to adjourn the meeting at 9:57 P.M., Linda Beal seconded the motion. All commissioners voted Aye. The motion passed.

**Respectfully submitted,**

**Michael Sargent**
**Lisbon Sanitary District #1 Accountant**

NOTICE: It is possible that members of and possibly a quorum of members of other governmental bodies of the municipality may be in attendance at the above-stated meeting to gather information; no action will be taken by any governmental body at the above- stated meeting other than the governmental body specifically referred to above in this note

September 18, 2019

ATTACHMENT A

Sign - In

| Name | Address |
| --- | --- |
| Belinda Brocker | W220 N8143 Townline Rd |
| Edward Brocker | " |
| Carol Walter | W223 N7517 Cherry Hill Rd. |
| James Walter | " " " " |
| Rick Lyons | N75W2203 Cherry Hill Rd |
| Jim Evans | W224N7603 Wooded Hills |
| Dennis + Cheryl Pecka | W224 N7581 Wooded Hills Dr. |
| Jerry + Dorothy Trueden | W224N7557 Wooded Hill Dr. Sussex 53089 |
| MICHAEL BARNES | N77W22384 Wooded Hills Dr |
| Karen Callister | W221N7897 Golf View Ln. |
| LANCE C ANDERSON | W224 N7685 Wooded Hills Dr. Sussex WI 53089 |
| Scott Kozic | W224N7651 Wooded Hills Dr Sussex WI 53089 |
| CARLO Rosso | W221 N8389 Hoag Ln - 53089 |
| HENRY FREDRICKS | W223N7619 CHERRY HILL SUSSEX 53089 |
| Dan Brown | W221N8323 Hoag Lane Sussex WI |
| Sally Roamer | N75W22470 Chestnut Hill |
| Henry G. Ray | W221N8322 PLAINVIEW, PKY SUSSEX, WI |

KUNKEL
engineering
group

107 Parallel Street
Beaver Dam, WI 53916
(920) 356-9447
fax: (920) 356-9454
kunkelengineering.com

ATTACHMENT B

September 18, 2019

Monthly Engineer's Report

1. Jeanine Lift Station Update
    - Manhole Inspection Report
    - Updated Flow Chart
    - Flow Meter Quotes

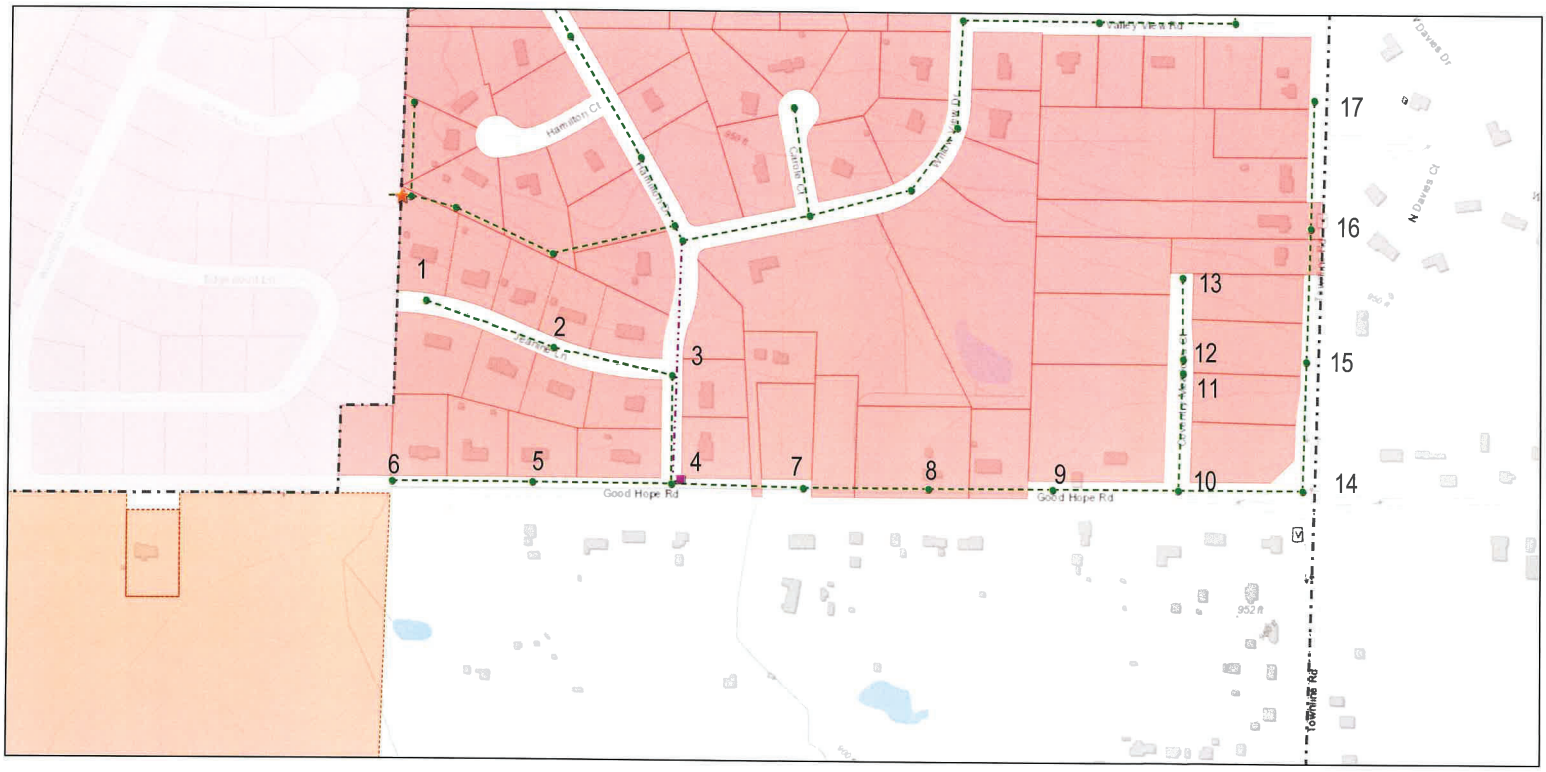
2. Richmond School Lift Station
    - Pump Failure Over Labor Day Weekend
    - Proposed Lift Station Improvements and Cost Estimates
    - Flow Adjustment with Village of Sussex
    - Site Maintenance and Housekeeping

3. Casey's Update
    - Approval of Plans and Connection to Sanitary Sewer
    - Connection Fee
    - Sewer Easement Update

4. Lied's Development Update
    - Status of Sanitary Sewer Extension Design

5. Diggers Hotline
    - Switch Over from Lynch to KEG

6. GIS Mapping
    - Currently Available On-Line Thru Lynch
    - Continue On-Line?
    - Incorporate Sewer Lateral Information?



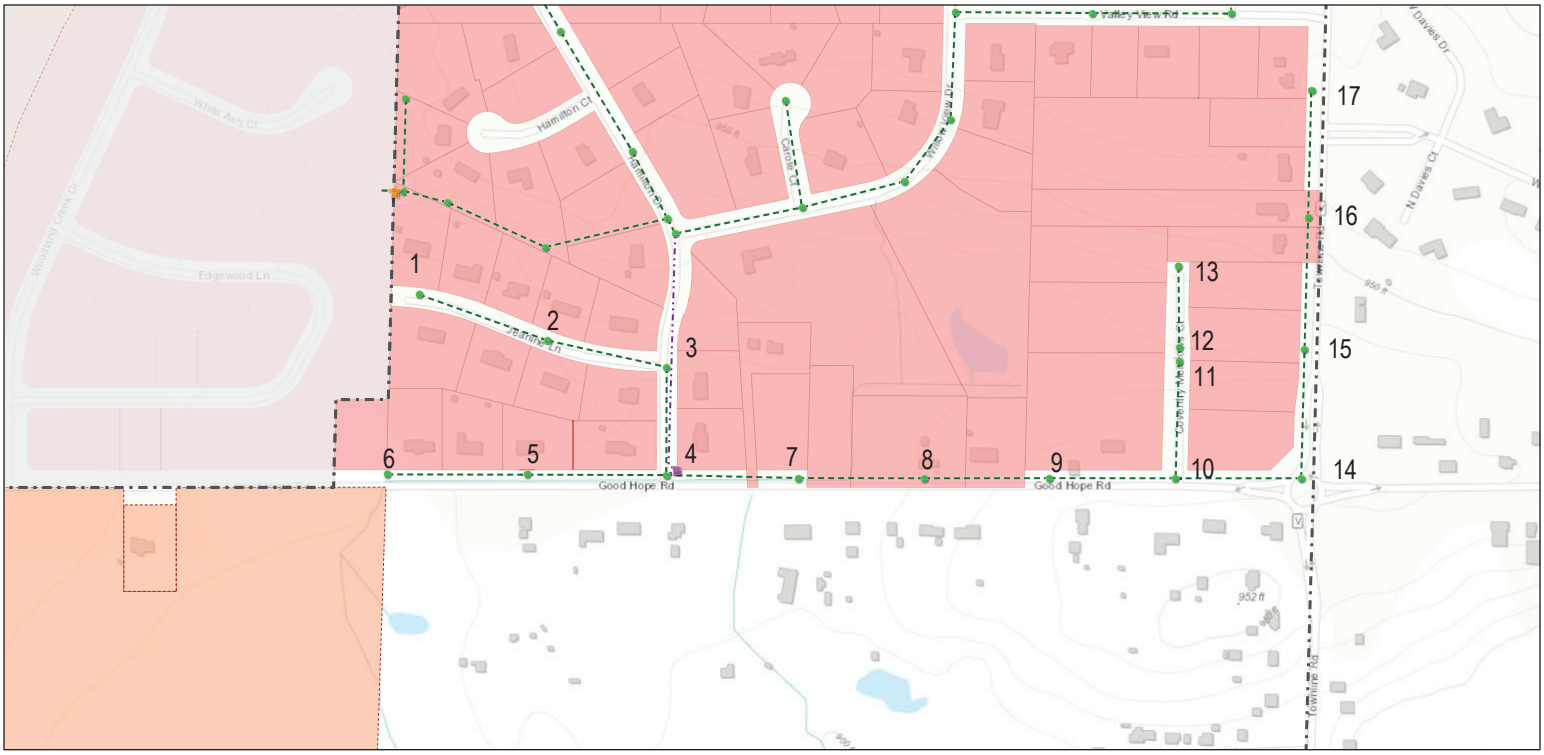

August 28, 2019

1:4,514

0 0.04 0.07 0.15 mi

0 0.05 0.1 0.2 km

Sources: Esri, HERE, Garmin, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI, Esri China (Hong Kong), (c) OpenStreetMap contributors, and the GIS User Community

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Kunkel Engineering Group

# Structure Data Sheet

Project Name:

Utility: Sanitary

Date: 8.29.19

Initials: NAC

☒ Existing Survey
☐ New Install/As-Built

Plan Structure #: 1

Plan Station:

**Structure Material**
☒ Precast
☐ Block
☐ _____

Notes:

**Condition**
☐ New
☒ Good
☐ Fair
☐ Poor

Notes:

*(Indicate any debris or leakage)*

**Manhole Casting Height:**

9 Inches
+6" cast ring

**Manhole or Inlet Height Adjustment:**

12 Inches

chimney seal?

**Manhole Casting Type**
☐1 ☐2 ☐3 ☐__

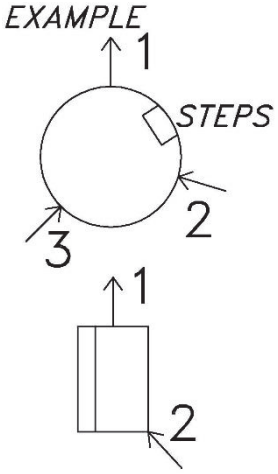
☐Open Pick Hole
☒Closed Pick Hole
☐_____

☒Rocking
☐Non-Rocking
☐Bolt Down
☐_____

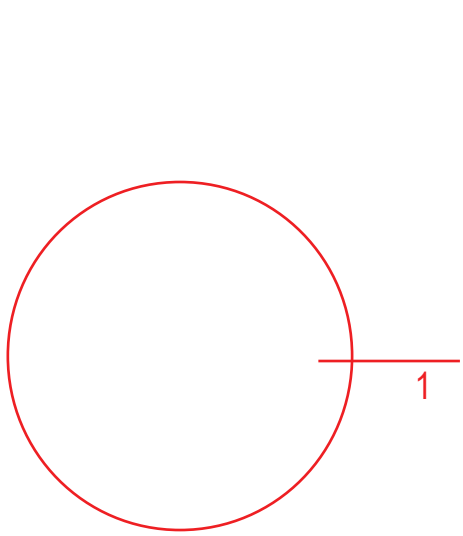
Benchmark Elevation:

BM Location:

**Sketch:**
Sketch all pipes with numbers including laterals. Use arrows to indicate flow direction. Show any unusual features including drops and locations of steps.




Structure Size: 48"




Pic # 1,2,3

Rim Elevation: _____
*(or Top of Curb Elevation)*

Depth of Structure: _____
*(Rim or Top of Curb to Outgoing Pipe Invert)*

| Pipe Number | Size | Material | Depth (Rim to Invert) | Invert Elevation |
|---|---|---|---|---|
| 1 | 8" | PVC | | |
| 2 | | | | |
| 3 | | | | |
| 4 | | | | |
| 5 | | | | |
| 6 | | | | |

Kunkel Engineering Group

# Structure Data Sheet

Project Name:

Utility: Sanitary

Date: 8.29.19

Initials: NAC

☒ Existing Survey
☐ New Install/As-Built

Plan Structure #: 2

Plan Station:

**Structure Material**
☒ Precast
☐ Block
☐ _____

Notes:

**Condition**
☐ New
☒ Good
☐ Fair
☐ Poor

Notes:
a little dampness around adjustment ring
*(Indicate any debris or leakage)*

**Manhole Casting Height:**
9 Inches
+4" cast rings

**Manhole or Inlet Height Adjustment:**
2 Inches
no seal

**Manhole Casting Type**
☐1 ☐2 ☐3 ☐__

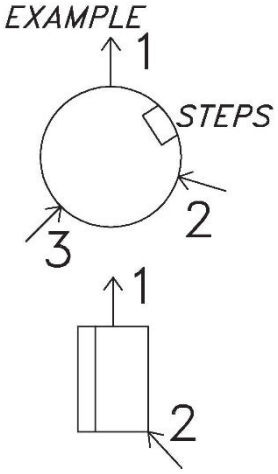
☐Open Pick Hole
☒Closed Pick Hole
☐_____

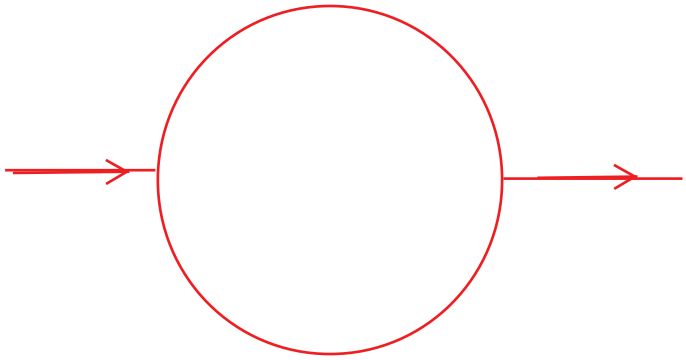
☒Rocking
☐Non-Rocking
☐Bolt Down
☐_____

Benchmark Elevation:

BM Location:

**Sketch:**
Sketch all pipes with numbers including laterals. Use arrows to indicate flow direction. Show any unusual features including drops and locations of steps.



Pic # 4,5,6

Structure Size: 48"

Rim Elevation: _____
*(or Top of Curb Elevation)*

Depth of Structure: _____
*(Rim or Top of Curb to Outgoing Pipe Invert)*

| Pipe Number | Size | Material | Depth (Rim to Invert) | Invert Elevation |
|---|---|---|---|---|
| 1 | 8"? | PVC | | |
| 2 | 8" | PVC | | |
| 3 | | | | |
| 4 | | | | |
| 5 | | | | |
| 6 | | | | |

Kunkel Engineering Group

# Structure Data Sheet

Project Name:

Utility: Sanitary

Date: 8.29.19

Initials: NAC

☒ Existing Survey
☐ New Install/As-Built

Plan Structure #: 3

Plan Station:

**Structure Material**
☒ Precast
☐ Block
☐ _____

Notes:

**Condition**
☐ New
☒ Good
☐ Fair
☐ Poor

Notes:
little standing
no seal
*(Indicate any debris or leakage)*

**Manhole Casting Height:**
9 Inches
+5" cast rings

**Manhole or Inlet Height Adjustment:**
5 Inches
little moisture around rings

**Manhole Casting Type**
☐1 ☐2 ☐3 ☐__

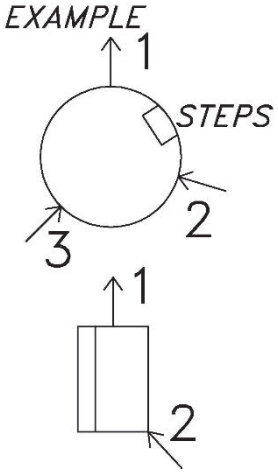
☐Open Pick Hole
☒Closed Pick Hole
☐_____

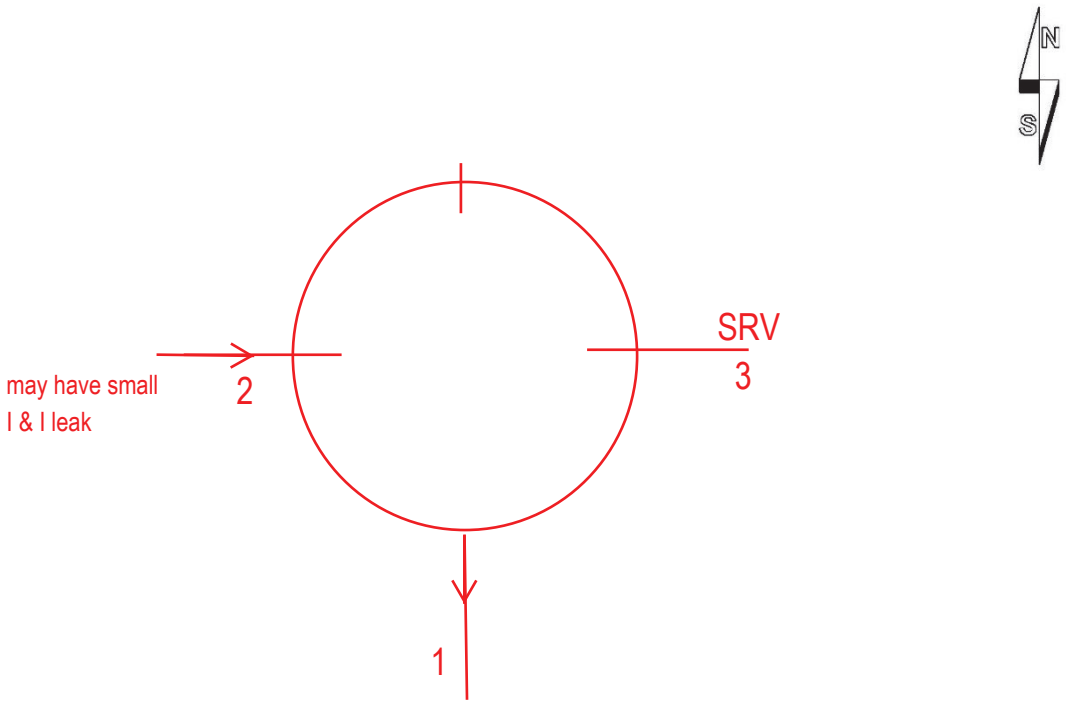
☒Rocking
☐Non-Rocking
☐Bolt Down
☐_____

Benchmark Elevation:

BM Location:

**Sketch:**
Sketch all pipes with numbers including laterals. Use arrows to indicate flow direction. Show any unusual features including drops and locations of steps.




Pic # 7,8,9,10

Structure Size: 48"

Rim Elevation: _____
*(or Top of Curb Elevation)*

Depth of Structure: _____
*(Rim or Top of Curb to Outgoing Pipe Invert)*

| Pipe Number | Size | Material | Depth (Rim to Invert) | Invert Elevation |
|---|---|---|---|---|
| 1 | 8" | PVC | | |
| 2 | 8" | PVC | | |
| 3 | 6" | PVC | | |
| 4 | | | | |
| 5 | | | | |
| 6 | | | | |

Kunkel Engineering Group

# Structure Data Sheet

Project Name:

Utility: Sanitary

Date: 8.29.19

Initials: NAC

☒ Existing Survey
☐ New Install/As-Built

Plan Structure #: 4

Plan Station:

**Structure Material**
☒ Precast
☐ Block
☐ _____

Notes:

**Condition**
☐ New
☒ Good
☐ Fair
☐ Poor

Notes:
no seal

*(Indicate any debris or leakage)*

**Manhole Casting Height:**
9 Inches
+2"

**Manhole or Inlet Height Adjustment:**
2 Inches
moisture around rings

**Manhole Casting Type**
☐1 ☐2 ☐3 ☐__

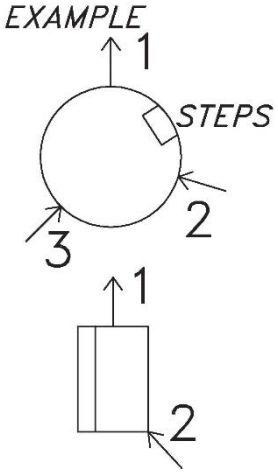
☐Open Pick Hole
☒Closed Pick Hole
☐_____

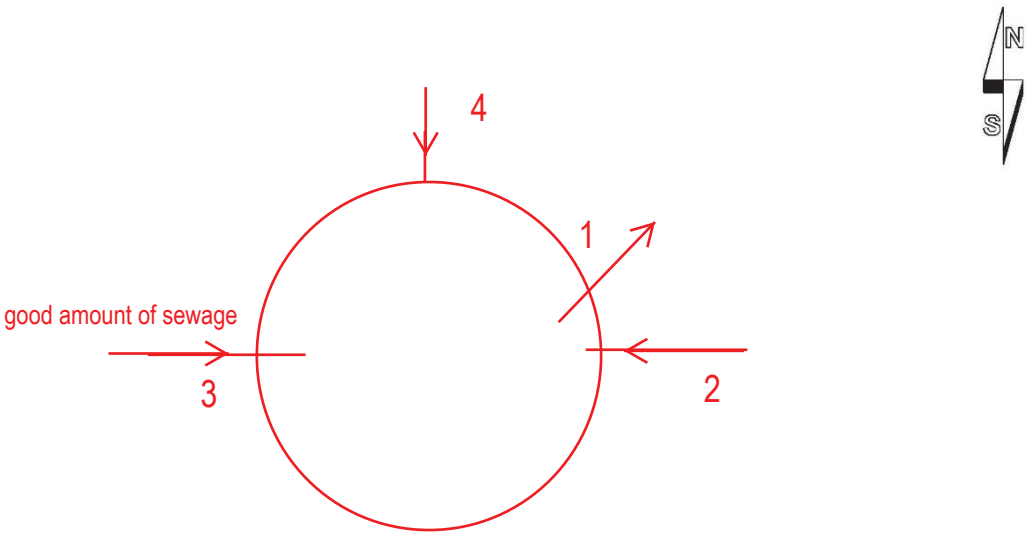
☒Rocking
☐Non-Rocking
☐Bolt Down
☐_____

Benchmark Elevation:

BM Location:

**Sketch:**
Sketch all pipes with numbers including laterals. Use arrows to indicate flow direction. Show any unusual features including drops and locations of steps.




Pic # 11,12

Structure Size: 48"

Rim Elevation: _____
*(or Top of Curb Elevation)*

Depth of Structure: _____
*(Rim or Top of Curb to Outgoing Pipe Invert)*

| Pipe Number | Size | Material | Depth (Rim to Invert) | Invert Elevation |
|---|---|---|---|---|
| 1 | 8" | PVC | | |
| 2 | 8" | PVC | | |
| 3 | 8" | PVC | | |
| 4 | 8" | PVC | | |
| 5 | | | | |
| 6 | | | | |

Kunkel Engineering Group

# Structure Data Sheet

Project Name:

Utility: Sanitary

Date: 8.29.19

Initials: NAC

☒ Existing Survey
☐ New Install/As-Built

Plan Structure #: 5

Plan Station:

**Structure Material**
☒ Precast
☐ Block
☐ _____

Notes:

**Condition**
☐ New
☒ Good
☐ Fair
☐ Poor

Notes:
leakage between bottom and next section up

*(Indicate any debris or leakage)*

**Manhole Casting Height:**
9 Inches

**Manhole or Inlet Height Adjustment:**
0 Inches

no seal

**Manhole Casting Type**
☐1 ☐2 ☐3 ☐__

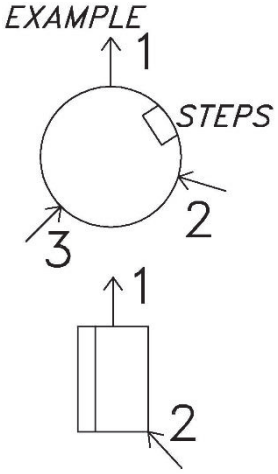
☐Open Pick Hole
☒Closed Pick Hole
☐_____

☒Rocking
☐Non-Rocking
☐Bolt Down
☐_____

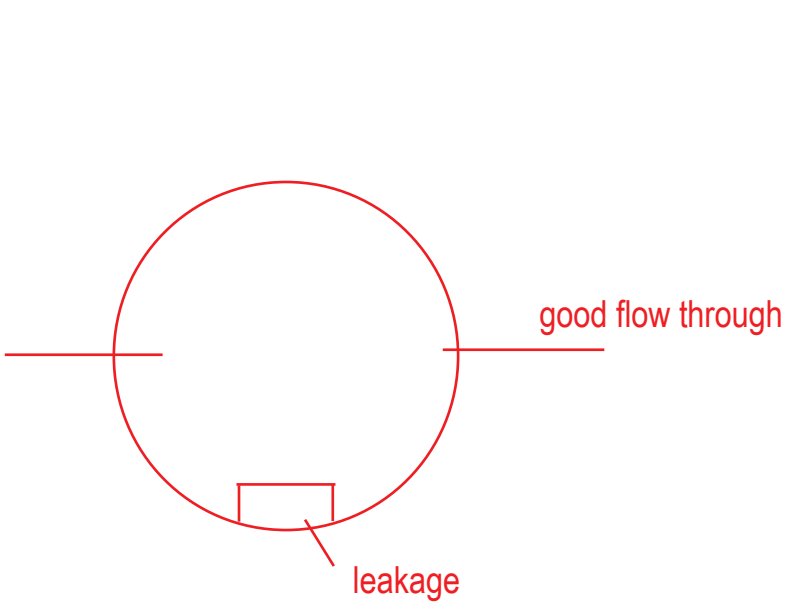
Benchmark Elevation:

BM Location:

**Sketch:**
Sketch all pipes with numbers including laterals. Use arrows to indicate flow direction. Show any unusual features including drops and locations of steps.




Structure Size: 48"




Pic # 13,14,15

Rim Elevation: _____
*(or Top of Curb Elevation)*

Depth of Structure: _____
*(Rim or Top of Curb to Outgoing Pipe Invert)*

| Pipe Number | Size | Material | Depth (Rim to Invert) | Invert Elevation |
|---|---|---|---|---|
| 1 | 8" | PVC | | |
| 2 | 6" | PVC | | |
| 3 | | | | |
| 4 | | | | |
| 5 | | | | |
| 6 | | | | |

Kunkel Engineering Group

# Structure Data Sheet

Project Name:

Utility: Sanitary

Date: 8.29.19

Initials: NAC

☒ Existing Survey
☐ New Install/As-Built

Plan Structure #: 6

Plan Station:

**Structure Material**
☒ Precast
☐ Block
☐ _____

Notes:

**Condition**
☐ New
☒ Good
☐ Fair
☐ Poor

Notes:

*(Indicate any debris or leakage)*

**Manhole Casting Height:**
11 Inches

**Manhole or Inlet Height Adjustment:**
12 Inches

no seal

**Manhole Casting Type**
☐1 ☐2 ☐3 ☐__

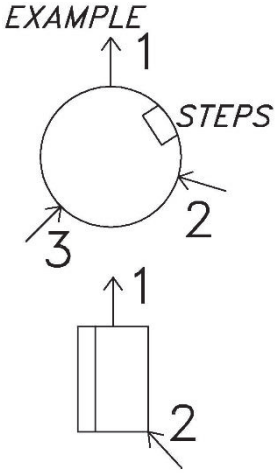
☐Open Pick Hole
☒Closed Pick Hole
☐_____

☒Rocking
☐Non-Rocking
☐Bolt Down
☐_____

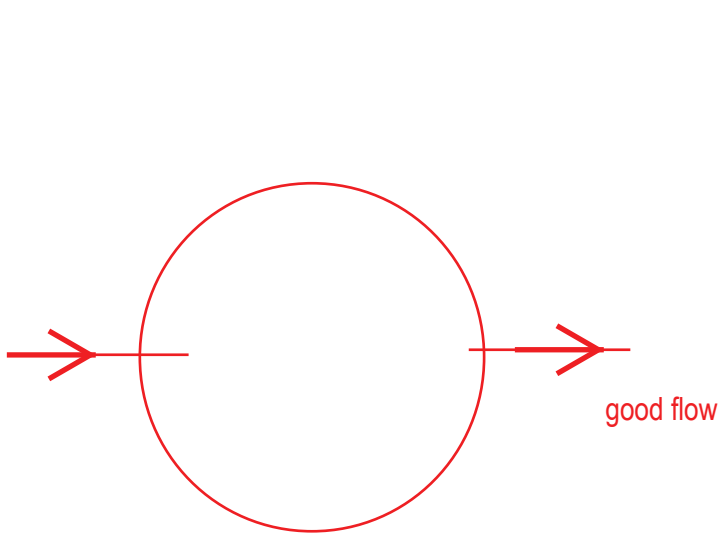
Benchmark Elevation:

BM Location:

**Sketch:**
Sketch all pipes with numbers including laterals. Use arrows to indicate flow direction. Show any unusual features including drops and locations of steps.




Structure Size: 48"




Pic # 16,17,18,19

Rim Elevation: _____
*(or Top of Curb Elevation)*

Depth of Structure: _____
*(Rim or Top of Curb to Outgoing Pipe Invert)*

| Pipe Number | Size | Material | Depth (Rim to Invert) | Invert Elevation |
|---|---|---|---|---|
| 1 | 8" | PVC | | |
| 2 | 8" | PVC | | |
| 3 | | | | |
| 4 | | | | |
| 5 | | | | |
| 6 | | | | |

Kunkel Engineering Group

# Structure Data Sheet

Project Name:

Utility: Sanitary

Date: 8.29.19

Initials: NAC

☒ Existing Survey
☐ New Install/As-Built

Plan Structure #: 7

Plan Station:

**Structure Material**
☒ Precast
☐ Block
☐ _____

Notes:

**Condition**
☐ New
☒ Good
☐ Fair
☐ Poor

Notes:

*(Indicate any debris or leakage)*

**Manhole Casting Height:**
11 Inches

**Manhole or Inlet Height Adjustment:**
4 Inches

**Manhole Casting Type**
☐1 ☐2 ☐3 ☐__

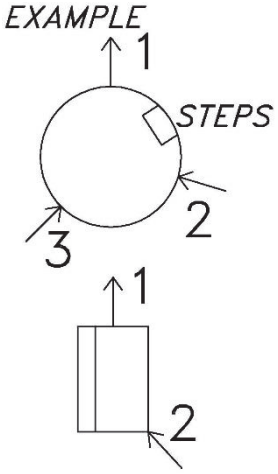
☐Open Pick Hole
☒Closed Pick Hole
☐_____

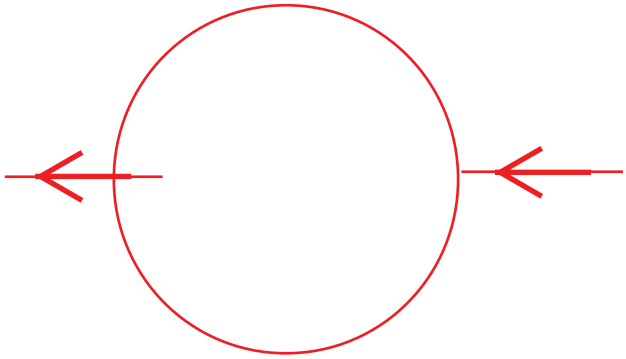
☒Rocking
☐Non-Rocking
☐Bolt Down
☐_____

Benchmark Elevation:

BM Location:

**Sketch:**
Sketch all pipes with numbers including laterals. Use arrows to indicate flow direction. Show any unusual features including drops and locations of steps.



Structure Size: 48"

Pic # 20, 21, 22

Rim Elevation: _____
*(or Top of Curb Elevation)*

Depth of Structure: _____
*(Rim or Top of Curb to Outgoing Pipe Invert)*

| Pipe Number | Size | Material | Depth (Rim to Invert) | Invert Elevation |
|---|---|---|---|---|
| 1 | 8" | PVC | | |
| 2 | 8" | PVC | | |
| 3 | | | | |
| 4 | | | | |
| 5 | | | | |
| 6 | | | | |

Kunkel Engineering Group

# Structure Data Sheet

Project Name:

Utility: Sanitary

Date: 8.29.19

Initials: NAC

☒ Existing Survey
☐ New Install/As-Built

Plan Structure #: 8

Plan Station:

**Structure Material**
☒ Precast
☐ Block
☐ _____

Notes:

**Condition**
☐ New
☒ Good
☐ Fair
☐ Poor

Notes:

*(Indicate any debris or leakage)*

**Manhole Casting Height:**
11 Inches

**Manhole or Inlet Height Adjustment:**
4 Inches

**Manhole Casting Type**
☐1 ☐2 ☐3 ☐__

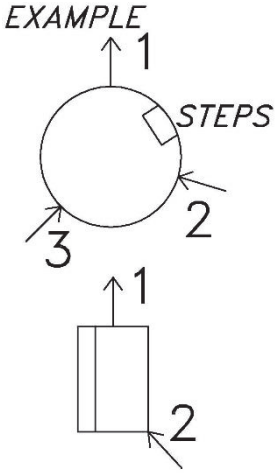
☐Open Pick Hole
☒Closed Pick Hole
☐_____

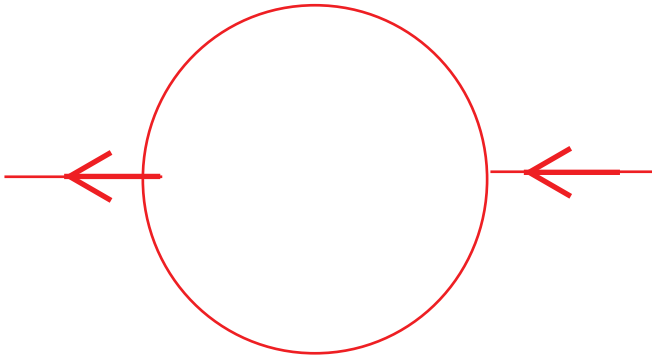
☒Rocking
☐Non-Rocking
☐Bolt Down
☐_____

Benchmark Elevation:

BM Location:

**Sketch:**
Sketch all pipes with numbers including laterals. Use arrows to indicate flow direction. Show any unusual features including drops and locations of steps.



Structure Size: 48"

Pic # 23, 24

Rim Elevation: _____
*(or Top of Curb Elevation)*

Depth of Structure: _____
*(Rim or Top of Curb to Outgoing Pipe Invert)*

| Pipe Number | Size | Material | Depth (Rim to Invert) | Invert Elevation |
|---|---|---|---|---|
| 1 | 8" | PVC | | |
| 2 | 8" | PVC | | |
| 3 | | | | |
| 4 | | | | |
| 5 | | | | |
| 6 | | | | |

Kunkel Engineering Group
# Structure Data Sheet

Project Name:

Utility: Sanitary

Date: 9.3.19

Initials: NAC

☒ Existing Survey
☐ New Install/As-Built

Plan Structure #: 9

Plan Station:

**Structure Material**
☒ Precast
☐ Block
☐ _____

Notes:

**Condition**
☐ New
☒ Good
☐ Fair
☐ Poor

Notes:
no chimney seal
some leakage between
casting & cone
*(Indicate any debris or leakage)*

**Manhole Casting Height:**
9 Inches

**Manhole or Inlet Height Adjustment:**
0 Inches

**Manhole Casting Type**
☐1 ☐2 ☐3 ☐__

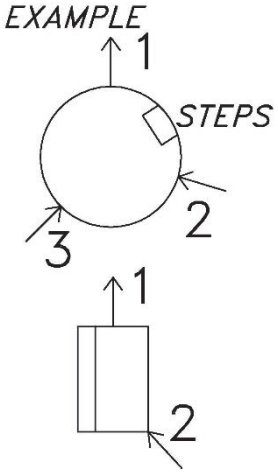
☐Open Pick Hole
☒Closed Pick Hole
☐_____

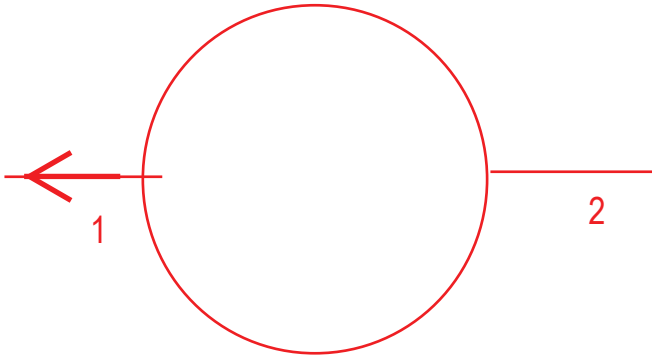
☒Rocking
☐Non-Rocking
☐Bolt Down
☐_____

Benchmark Elevation:

BM Location:

**Sketch:**
Sketch all pipes with numbers including laterals. Use arrows to indicate flow direction. Show any unusual features including drops and locations of steps.



Structure Size: 48"

Pic # 35, 36

Rim Elevation: _____
*(or Top of Curb Elevation)*

Depth of Structure: _____
*(Rim or Top of Curb to Outgoing Pipe Invert)*

| Pipe Number | Size | Material | Depth (Rim to Invert) | Invert Elevation |
|---|---|---|---|---|
| 1 | 8" | PVC | | |
| 2 | 8" | PVC | | |
| 3 | | | | |
| 4 | | | | |
| 5 | | | | |
| 6 | | | | |

Kunkel Engineering Group

# Structure Data Sheet

Project Name:

Utility: Sanitary

Date: 9.3.19

Initials: NAC

☒ Existing Survey
☐ New Install/As-Built

Plan Structure #: 10

Plan Station:

**Structure Material**
☒ Precast
☐ Block
☐ _____

Notes:

**Condition**
☐ New
☒ Good
☐ Fair
☐ Poor

Notes:

*(Indicate any debris or leakage)*

**Manhole Casting Height:**

9 Inches

**Manhole or Inlet Height Adjustment:**

2 Inches

**Manhole Casting Type**
☐1 ☐2 ☐3 ☐__

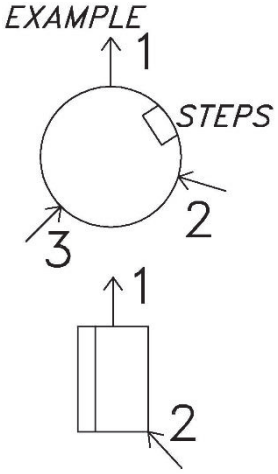
☐Open Pick Hole
☒Closed Pick Hole
☐_____

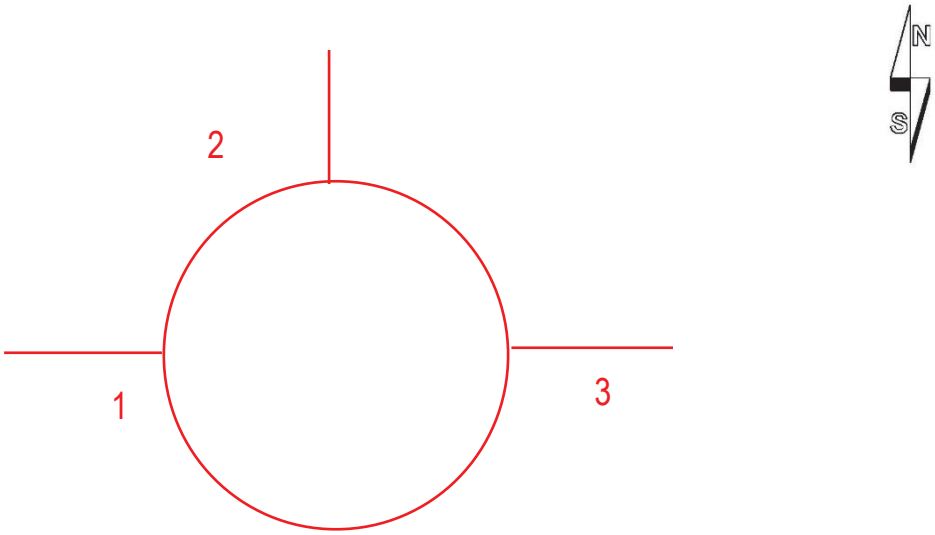
☒Rocking
☐Non-Rocking
☐Bolt Down
☐_____

Benchmark Elevation:

BM Location:

**Sketch:**
Sketch all pipes with numbers including laterals. Use arrows to indicate flow direction. Show any unusual features including drops and locations of steps.




Structure Size: 48"

Pic # 33, 34

Rim Elevation: _____
*(or Top of Curb Elevation)*

Depth of Structure: _____
*(Rim or Top of Curb to Outgoing Pipe Invert)*

| Pipe Number | Size | Material | Depth (Rim to Invert) | Invert Elevation |
|---|---|---|---|---|
| 1 | 8" | PVC | | |
| 2 | 8" | D.I | | |
| 3 | 8" | PVC | | |
| 4 | | | | |
| 5 | | | | |
| 6 | | | | |

Kunkel Engineering Group

# Structure Data Sheet

Project Name:

Utility: Sanitary

Date: 9.3.19

Initials: NAC

☒ Existing Survey
☐ New Install/As-Built

Plan Structure #: 11

Plan Station:

**Structure Material**
☒ Precast
☐ Block
☐ _____

Notes:

**Condition**
☐ New
☒ Good
☐ Fair
☐ Poor

Notes:
no chimney seal

*(Indicate any debris or leakage)*

**Manhole Casting Height:**
9 Inches

**Manhole or Inlet Height Adjustment:**
6 Inches

**Manhole Casting Type**
☐1 ☐2 ☐3 ☐__

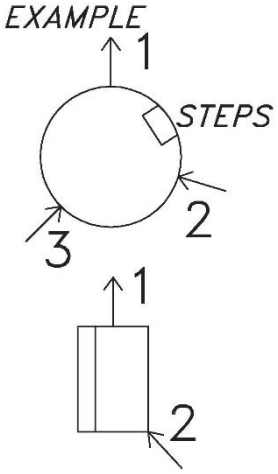
☐Open Pick Hole
☒Closed Pick Hole
☐_____

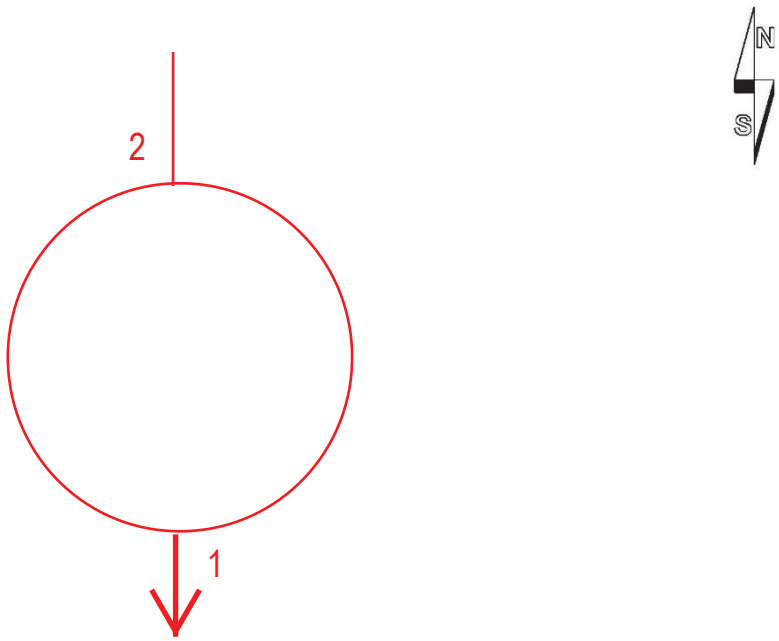
☒Rocking
☐Non-Rocking
☐Bolt Down
☐_____

Benchmark Elevation:

BM Location:

**Sketch:**
Sketch all pipes with numbers including laterals. Use arrows to indicate flow direction. Show any unusual features including drops and locations of steps.




Structure Size: 48"

Pic # 30, 31, 32

Rim Elevation: _____
*(or Top of Curb Elevation)*

Depth of Structure: _____
*(Rim or Top of Curb to Outgoing Pipe Invert)*

| Pipe Number | Size | Material | Depth (Rim to Invert) | Invert Elevation |
|---|---|---|---|---|
| 1 | 8" | D.I. | | |
| 2 | 8" | D.I. | | |
| 3 | | | | |
| 4 | | | | |
| 5 | | | | |
| 6 | | | | |

Kunkel Engineering Group

# Structure Data Sheet

Project Name:

Utility: Sanitary

Date: 9.3.19

Initials: NAC

☒ Existing Survey
☐ New Install/As-Built

Plan Structure #: 12

Plan Station:

**Structure Material**
☒ Precast
☐ Block
☐ _____

Notes:

**Condition**
☐ New
☒ Good
☐ Fair
☐ Poor

Notes:

*(Indicate any debris or leakage)*

**Manhole Casting Height:**

9 Inches

**Manhole or Inlet Height Adjustment:**

10 Inches

chimney seal does not cover adjustment rings

**Manhole Casting Type**
☐1 ☐2 ☐3 ☐__

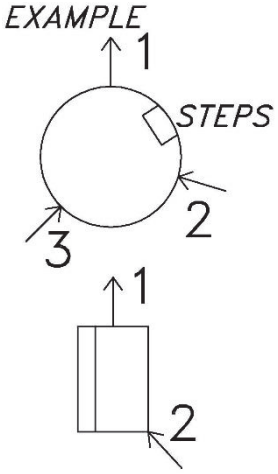
☐Open Pick Hole
☒Closed Pick Hole
☐_____

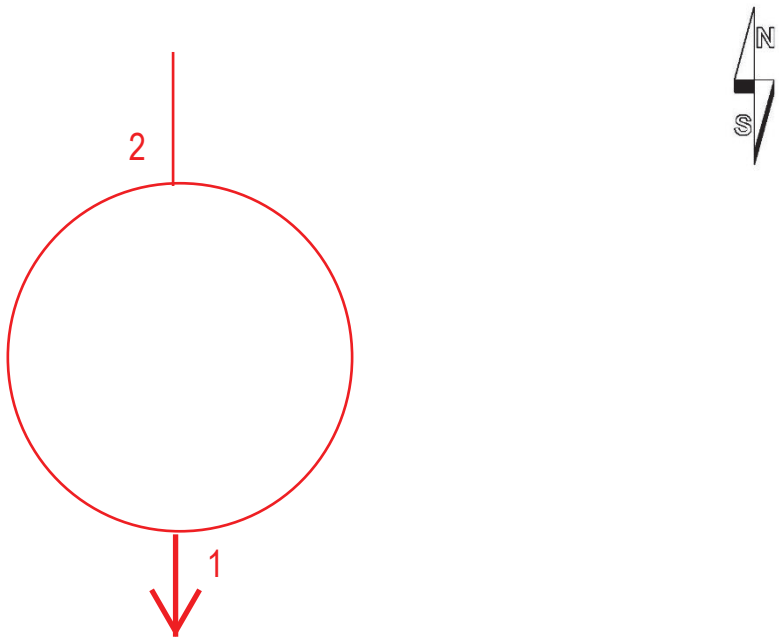
☒Rocking
☐Non-Rocking
☐Bolt Down
☐_____

Benchmark Elevation:

BM Location:

**Sketch:**
Sketch all pipes with numbers including laterals. Use arrows to indicate flow direction. Show any unusual features including drops and locations of steps.




Structure Size: 48"

Pic # 27, 28, 29

Rim Elevation: _____
*(or Top of Curb Elevation)*

Depth of Structure: _____
*(Rim or Top of Curb to Outgoing Pipe Invert)*

| Pipe Number | Size | Material | Depth (Rim to Invert) | Invert Elevation |
|---|---|---|---|---|
| 1 | 8" | D.I. | | |
| 2 | 8" | PVC | | |
| 3 | | | | |
| 4 | | | | |
| 5 | | | | |
| 6 | | | | |

Kunkel Engineering Group

# Structure Data Sheet

Project Name:

Utility: Sanitary

Date: 9.3.19

Initials: NAC

☒ Existing Survey
☐ New Install/As-Built

Plan Structure #: 13

Plan Station:

**Structure Material**
☒ Precast
☐ Block
☐ _____

Notes:

**Condition**
☐ New
☒ Good
☐ Fair
☐ Poor

Notes:
some staining from leaks

*(Indicate any debris or leakage)*

**Manhole Casting Height:**
9 Inches

**Manhole or Inlet Height Adjustment:**
10 Inches
chimney seal not installed correctly

**Manhole Casting Type**
☐1 ☐2 ☐3 ☐__

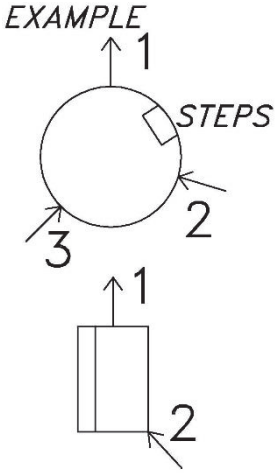
☐Open Pick Hole
☒Closed Pick Hole
☐_____

☒Rocking
☐Non-Rocking
☐Bolt Down
☐_____

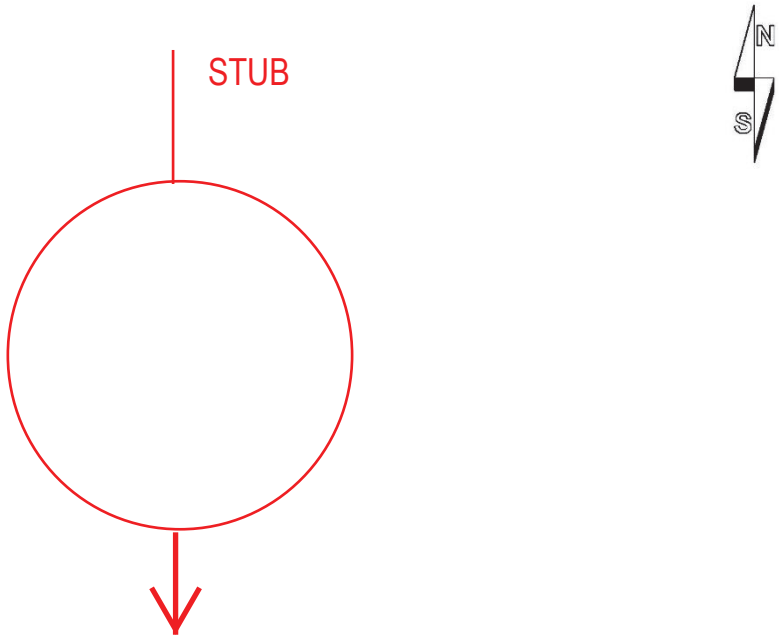
Benchmark Elevation:

BM Location:

**Sketch:**
Sketch all pipes with numbers including laterals. Use arrows to indicate flow direction. Show any unusual features including drops and locations of steps.




Structure Size: 48"




Pic # 25, 26

Rim Elevation: _____
*(or Top of Curb Elevation)*

Depth of Structure: _____
*(Rim or Top of Curb to Outgoing Pipe Invert)*

| Pipe Number | Size | Material | Depth (Rim to Invert) | Invert Elevation |
|---|---|---|---|---|
| 1 | 8" | PVC | | |
| 2 | 8" | PVC | | |
| 3 | | | | |
| 4 | | | | |
| 5 | | | | |
| 6 | | | | |

Kunkel Engineering Group

# Structure Data Sheet

Project Name:

Utility: Sanitary

Date: 9.3.19

Initials: NAC

☒ Existing Survey
☐ New Install/As-Built

Plan Structure #: 14

Plan Station:

**Structure Material**
☒ Precast
☐ Block
☐ _____

Notes:

**Condition**
☐ New
☒ Good
☐ Fair
☐ Poor

Notes:

*(Indicate any debris or leakage)*

**Manhole Casting Height:**

5 Inches

**Manhole or Inlet Height Adjustment:**

0 Inches

no chimney seal

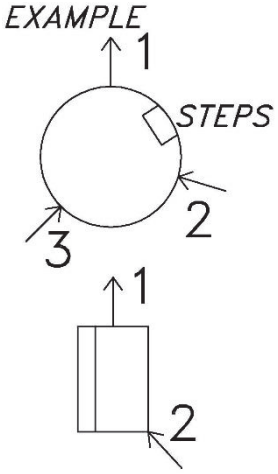
**Manhole Casting Type**
☐1 ☐2 ☐3 ☐__

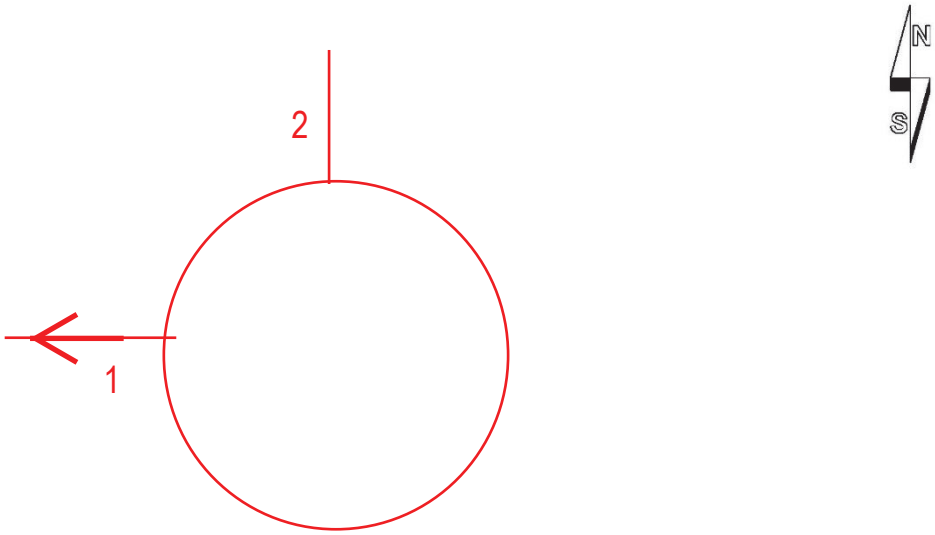
☒Open Pick Hole
☐Closed Pick Hole
☐_____
in curb line
☐Rocking
☒Non-Rocking
☐Bolt Down
☐_____

Benchmark Elevation:

BM Location:

**Sketch:**
Sketch all pipes with numbers including laterals. Use arrows to indicate flow direction. Show any unusual features including drops and locations of steps.




Pic # 37, 38

Structure Size: 48"

Rim Elevation: _____
*(or Top of Curb Elevation)*

Depth of Structure: _____
*(Rim or Top of Curb to Outgoing Pipe Invert)*

| Pipe Number | Size | Material | Depth (Rim to Invert) | Invert Elevation |
|---|---|---|---|---|
| 1 | 8" | PVC | | |
| 2 | 8" | PVC | | |
| 3 | | | | |
| 4 | | | | |
| 5 | | | | |
| 6 | | | | |

Kunkel Engineering Group
# Structure Data Sheet

Project Name:

Utility: Sanitary

Date: 9.3.19
Initials: NAC

☒ Existing Survey
☐ New Install/As-Built

Plan Structure #: 15
Plan Station:

**Structure Material**
☒ Precast
☐ Block
☐ _____

Notes:

**Condition**
☐ New
☒ Good
☐ Fair
☐ Poor

Notes:
no chimney seal

*(Indicate any debris or leakage)*

**Manhole Casting Height:**
11 Inches

**Manhole or Inlet Height Adjustment:**
14 Inches

**Manhole Casting Type**
☐1 ☐2 ☐3 ☐__

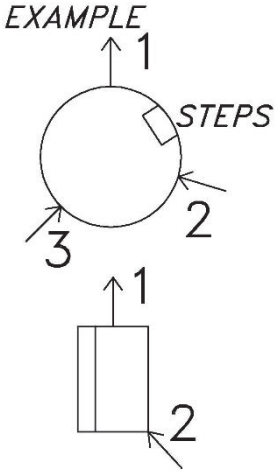
☐Open Pick Hole
☒Closed Pick Hole
☐_____

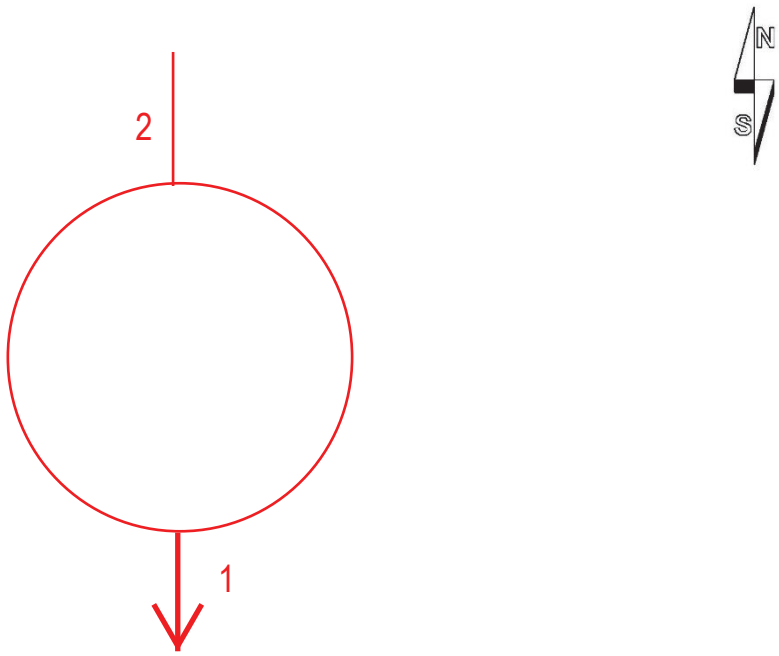
☒Rocking
☐Non-Rocking
☐Bolt Down
☐_____

Benchmark Elevation:

BM Location:

**Sketch:**
Sketch all pipes with numbers including laterals. Use arrows to indicate flow direction. Show any unusual features including drops and locations of steps.




Structure Size: 48"

Pic # 39, 40

Rim Elevation: _____
*(or Top of Curb Elevation)*

Depth of Structure: _____
*(Rim or Top of Curb to Outgoing Pipe Invert)*

| Pipe Number | Size | Material | Depth (Rim to Invert) | Invert Elevation |
|---|---|---|---|---|
| 1 | 8" | PVC | | |
| 2 | 8" | PVC | | |
| 3 | | | | |
| 4 | | | | |
| 5 | | | | |
| 6 | | | | |

Kunkel Engineering Group

# Structure Data Sheet

Project Name:

Utility: Sanitary

Date: 9.3.19

Initials: NAC

☒ Existing Survey
☐ New Install/As-Built

Plan Structure #: 16

Plan Station:

**Structure Material**
☒ Precast
☐ Block
☐ _____

Notes:

**Condition**
☐ New
☒ Good
☐ Fair
☐ Poor

Notes:
no chimney seal

*(Indicate any debris or leakage)*

**Manhole Casting Height:**
11 Inches

**Manhole or Inlet Height Adjustment:**
0 Inches

**Manhole Casting Type**
☐1 ☐2 ☐3 ☐__

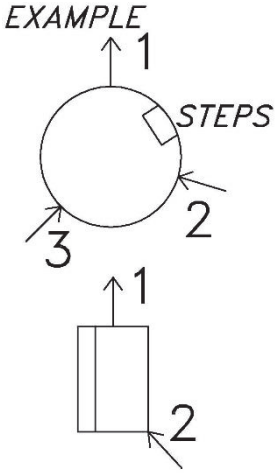
☐Open Pick Hole
☒Closed Pick Hole
☐_____

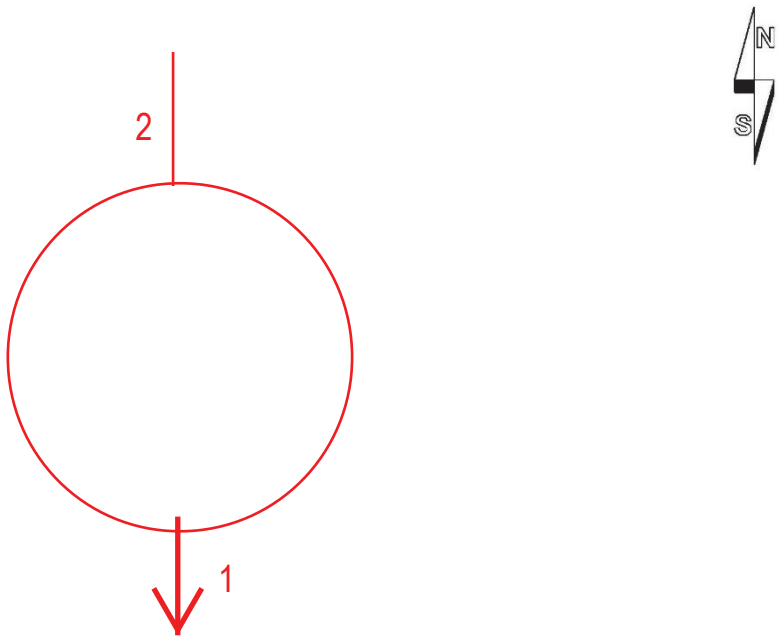
☒Rocking
☐Non-Rocking
☐Bolt Down
☐_____

Benchmark Elevation:

BM Location:

**Sketch:**
Sketch all pipes with numbers including laterals. Use arrows to indicate flow direction. Show any unusual features including drops and locations of steps.




Structure Size: 48"

Pic # 41,42

Rim Elevation: _____
*(or Top of Curb Elevation)*

Depth of Structure: _____
*(Rim or Top of Curb to Outgoing Pipe Invert)*

| Pipe Number | Size | Material | Depth (Rim to Invert) | Invert Elevation |
|---|---|---|---|---|
| 1 | 8" | PVC | | |
| 2 | 8" | PVC | | |
| 3 | | | | |
| 4 | | | | |
| 5 | | | | |
| 6 | | | | |

Kunkel Engineering Group

# Structure Data Sheet

Project Name:

Utility: Sanitary

Date: 9.3.19

Initials: NAC

☒ Existing Survey
☐ New Install/As-Built

Plan Structure #: 17

Plan Station:

**Structure Material**
☒ Precast
☐ Block
☐ _____

Notes:

**Condition**
☐ New
☒ Good
☐ Fair
☐ Poor

Notes:
no chimney seal
some leakage between casting & cone
*(Indicate any debris or leakage)*

**Manhole Casting Height:**
11 Inches

**Manhole or Inlet Height Adjustment:**
0 Inches

**Manhole Casting Type**
☐1 ☐2 ☐3 ☐__

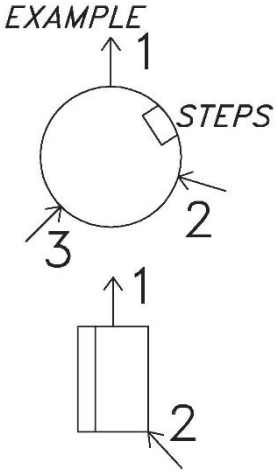
☐Open Pick Hole
☒Closed Pick Hole
☐_____

☒Rocking
☐Non-Rocking
☐Bolt Down
☐_____

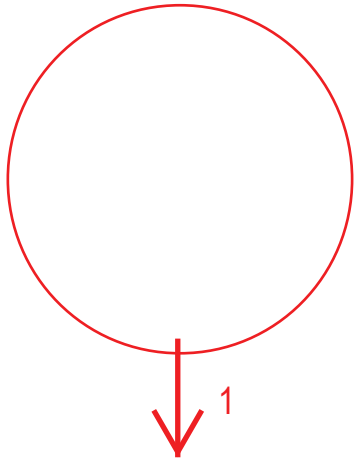
Benchmark Elevation:

BM Location:

**Sketch:**
Sketch all pipes with numbers including laterals. Use arrows to indicate flow direction. Show any unusual features including drops and locations of steps.




Structure Size: 48"




Pic # 43, 44, 45

Rim Elevation: _____
*(or Top of Curb Elevation)*

Depth of Structure: _____
*(Rim or Top of Curb to Outgoing Pipe Invert)*

| Pipe Number | Size | Material | Depth (Rim to Invert) | Invert Elevation |
|---|---|---|---|---|
| 1 | 8" | PVC | | |
| 2 | | | | |
| 3 | | | | |
| 4 | | | | |
| 5 | | | | |
| 6 | | | | |

Isco Product Data

# Teledyne Isco 2103Ci CDMA Cellular Modem Module

This cellular modem module is designed to push Isco 2100 Series flow meter data to a remote Flowlink® database. Data can also be downloaded from the server using an internet connection. The 2103Ci modem module uses Serial Over Internet Protocol (SOIP), so a landline modem is not required. This ability virtually eliminates the need for routine site visits, time-consuming (and potentially dangerous) confined space entry, as well as costly installation of land lines.

### *Improved efficiency in I&I studies, cMOM, SSO, and CSO*

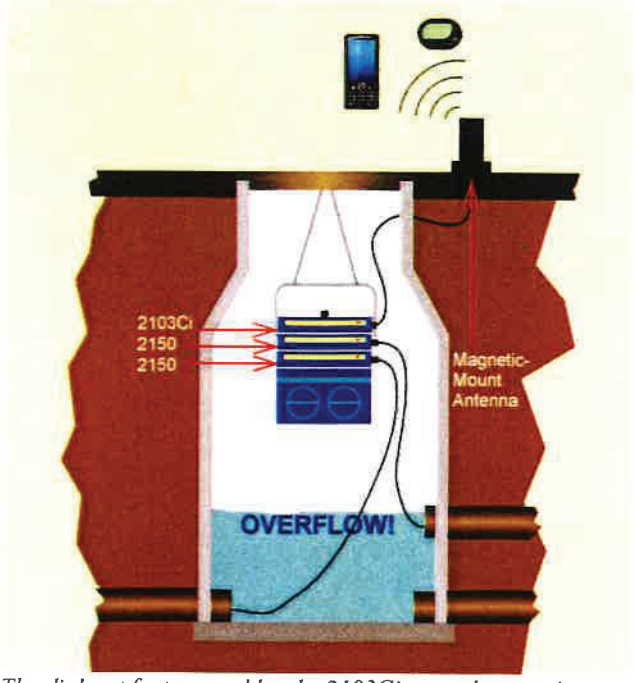
- Automatic alarm messaging to pagers or cell phones via SMS and server
- Service coverage for most of North America
- Compatibility with Isco Flowlink data management software, enabling sophisticated analysis, editing, graphing, reporting, and archiving.
- Resistance to lightning damage

### *Long battery life*

While preset dial-out conditions will automatically power up the internal modem, you can significantly extend battery life by programming the module with specific conditions to power up the modem for dial-in communication.

### *Pushed-data capability*

The 2103Ci can automatically send data via the internet to a designated server running Isco Flowlink Pro software, using economical 1xRTT packet-switched data transmission. The user-specified primary data transmission interval (from 5 minutes to 24 hours) can automatically switch to a shorter interval when specific site conditions occur. An Oracle® or Microsoft® SQL database is required to use this feature. Contact the factory for additional information.




*The dial-out feature enables the 2103Ci to send a text alarm to your cell phone or pager.*

## *Specifications*

| | | |
|---|---|---|
| **Dimensions (W x D x H):** | 10.5 x 7.5 x 2.9 in. | 26.7 x 19 x7 .4 cm |
| **Weight:** | 2 lbs | 0.9 Kg |
| **Material:** | High-impact molded polystyrene | |
| **Enclosure:** | NEMA 4X, 6P, IP68 | |
| **Power:** | Provided by Isco 2191 Battery Module | |
| **Operating Temperature:** | -4° to 140°F (-20° to 60°C) | |
| **Storage Temperature:** | -40° to 140°F (-40° to 60°C) | |
| **Serial Port Communication Speeds (not modem):** | Up to 38,400 bps | |
| **Cellular Communication:** | Serial Over IP (SOIP): CDMA/1xRTT | |

*Teledyne Isco is continually improving its products and reserves the right to change specifications without notice*

## *Ordering Information*

Teledyne Isco will consult with the customer at the time of order to install the phone number per customer's service contract, and make test calls in and out, normally providing plug-and-play startup when the modem is delivered.

| | |
|---|---|
| **2103Ci module w/ magnetic-mount antenna** | 68-2000-098 |
| **Magnetic-mount antenna** | 60-2004-550 |
| **Manhole Lid Antenna** | 60-5314-820 |
| **Flowlink 5.1 Software** | 68-2541-200 |
| **Flowlink Pro Software** | 68-2540-276 |

**Magnetic-mount antenna:**
*For elevated placement to extend range & avoid signal obstruction, e.g., where module is in a steel enclosure*

*Note: Customer is responsible for confirming that local CDMA service provides coverage where the module will be deployed.*

TELEDYNE ISCO
Everywhereyoulook™

**Teledyne Isco**
4700 Superior Street
Lincoln, NE 68504 USA
Tel: (402) 464-0231
USA and Canada (800) 228-4373
Fax: (402) 465-3022
E-Mail: IscoInfo@teledyne.com
Teledyne Isco reserves the right to change specifications without notice.
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Certified
ISO 9001

## *Specifications*

| 2150 Flow Module | |
|---|---|
| Size (HxWxD): | 2.9 x 11.3 x 7.5 in (74 x 287 x 191 mm) |
| Weight: | 2.0 lb (0.9 kg) |
| Materials of construction: | High-impact polystyrene, stainless steel |
| Enclosure (self-certified): | NEMA 4X, 6P (IP68) |
| Temperature Range: | -40° to 140° F (-40° to 60° C) operating and storage |
| Power Required: | 12 VDC nominal (7.0 to 16.6 VDC), 100 mA typical, 1 mA standby |
| Power Source: | Typically, an Isco 2191 Battery Module, containing 2 alkaline or 2 rechargeable lead-acid batteries. (Other power options are available, ask for details.) |
| Typical Battery Life: | Using 15-minute data storage interval<br>Energizer® Model 529 alkaline - 15 months<br>Isco rechargeable lead-acid - 2.5 months |
| Program Memory: | Non-volatile programmable flash; can be updated using PC without opening enclosure; retains user program after updating. |
| **Built-In Conversions** | |
| Flow Rate Conversions: | Up to 2 independent level-to-area conversions and/or level-to-flow rate conversions. |
| Level-to-Area Conversions: | Channel Shapes - round, U-shaped, rectangular, trapezoidal, elliptical, with silt correction;<br>Data Points - Up to 50 level-area points. |
| Level-to-Flow Conversions: | Most common weirs and flumes; Manning Formula; Data Points (up to 50 level-flow points); 2-term polynomial equation |
| Total Flow Calculations: | Up to 2 independent, net, positive or negative, based on either flow rate conversion |
| **Data Handling and Communications** | |
| Data Storage: | Non-volatile flash; retains stored data during program updates. Capacity 395,000 bytes (up to 79,000 readings, equal to over 270 days of level and velocity readings at 15-minute intervals, plus total flow and input voltage readings at 24-hour intervals) |
| Data Types: | Level, velocity, flow rate 1, flow rate 2, total flow 1, total flow 2, input voltage, temperature |
| Storage Mode: | Rollover, 5 bytes per reading. |
| Storage Interval: | 15 or 30 seconds; 1, 2, 5, 15, or 30 minutes; or 1, 2, 4, 12, or 24 hours<br>Storage rate variable based on level, velocity, flow rate, total flow, or input voltage |
| Data Retrieval: | Serial connection to PC or optional 2101 Field Wizard module; optional modules for spread spectrum radio; land-line or cellular modem; 1xRTT, Modbus and 4-20 mA analog available. |
| Software: | Isco Flowlink for setup, data retrieval, editing, analysis, and reporting |
| Multi-module networking: | Up to four 2100 Series Flow Modules, stacked and/or remotely connected. Max distance between modules 3300 ft (1000 m). |
| Serial Communication Speed: | 38,400 bps |

| 2150 Area Velocity Sensor | |
|---|---|
| Size (HxWxD): | 0.75 x 1.3 x 6.0 in (19 x 33 x 152 mm) |
| Cable (Length x Diameter): | 33 ft x 0.37 in (10 m x 9 mm) standard. Custom lengths available on request. |
| Weight (including cable): | 2.2 lbs (1 kg) |
| Materials of construction: | Sensor - Epoxy, chlorinated polyvinyl chloride (CPVC), stainless steel<br>Cable - Polyvinyl chloride (PVC), chlorinated polyvinyl chloride (CPVC) |
| Operating Temperature: | 32° to 140° F (0° to 60° C) |
| Level Measurement: | Method - Submerged pressure transducer mounted in the flow stream<br>Transducer Type - Differential linear integrated circuit pressure transducer<br>Range (standard) 0.033 to 10 ft (0.010 to 3.05 m); (optional) up to 30 ft (9.15 m).<br>Maximum Allowable Level 34 ft (10.5 m)<br>Accuracy ±0.01 ft from 0.033 to 10 ft, (±0.003 m from 0.01 to 3.05 m.)<br>Long-Term Stability ±0.023 ft/yr (±0.007 m/yr)<br>Compensated Range 32° to 122°F (0° to 50°C) |
| Velocity Measurement: | Method - Doppler ultrasonic, frequency 500 kHz<br>Typical Minimum Depth 0.08 ft (25 mm)<br>Range -5 to +20 ft/s (-1.5 to +6.1 m/s)<br>Accuracy (in water with uniform velocity profile, speed of sound = 4850 ft/s, for indicated velocity range)<br>±0.1 ft/s from -5 to 5 ft/s (±0.03 m/s from -1.5 to +1.5 m/s)<br>±2% of reading from 5 to 20 ft/s (1.5 to 6.1 m/s) |
| Temperature Measurement: | Accuracy ±3.6° F (±2° C) |
| **2191 Battery Module** | |
| Size (HxWxD): | 6.0 x 9.6 x 7.6 in (152 x 244 x 193 mm) |
| Weight (without batteries): | 3.2 lb (1.4 kg) |
| Materials of construction: | High-impact polystyrene, stainless steel |
| Enclosure (self certified): | NEMA 4X, 6P, (IP68) |
| Batteries: | Two 6-volt Energizer Model 529* alkaline (25 Ahrs capacity) or Isco Rechargeable Lead-acid (5 Ahrs capacity) recommended.<br>*Note – Energizer 529 ER does not give specified life. |

## *2150 Ordering Information*

*Contact your Teledyne Isco representative for complete ordering details and information on other 2100 Series Modules.*

| Description | Part No. |
|---|---|
| 2150 with AV sensor, 2191 Battery Module, and Handle | 68-2050-002 |
| 2150 Module with AV sensor (only) | 68-2050-001 |
| Isco Flowlink® 5 Software | 68-2540-200 |
| Energizer® Model 529 Alkaline Lantern Battery (2 required) | 340-2006-02 |
| Isco Rechargeable Lead-acid Battery (2 required) | 60-2004-041 |
| Charger for Lead-acid Batteries (holds 2 batteries) | 60-2004-040 |


TELEDYNE ISCO
Everywhereyoulook™

4700 Superior Street
Lincoln NE 68504 USA
Tel: (402) 464-0231
USA and Canada: (800) 228-4373
Fax: (402) 465-3022
E-Mail: iscoinfo@teledyne.com
Internet: www.teledyneisco.com


Certified
ISO 9001


Teledyne Isco reserves the right to change specifications without notice
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Isco Product Data

# Isco 2150 Area Velocity Flow Module

The 2150 Flow Module uses continuous wave Doppler technology to measure mean velocity. The sensor transmits a continuous ultrasonic wave, then measures the frequency shift of returned echoes reflected by air bubbles or particles in the flow.

The 2150's "smart" area velocity probe is built on digital electronics, so the analog level is digitized in the sensor itself to overcome electromagnetic interference. The probe is also factory-calibrated for 10-foot (3 meter) span at different temperatures. This built-in calibration eliminates drift in the level signal, providing long-term level stability that reduces recalibration frequency and completely eliminates span recalibration.

In field use, the 2150 is typically powered either by two alkaline, or Isco Rechargeable Lead-acid batteries, within a 2191 Battery Module. Highly efficient power management extends battery life up to 15 months at 15-minute data storage intervals. Other power options (including solar) are available.

## *Applications*

- Portable and permanent-site AV flow monitoring for inflow and infiltration, capacity assessment, sewer overflow, and other sewer studies.
- Measuring shallow flows in small pipes. Our low-profile area velocity sensor minimizes flow stream obstruction and senses velocity in flows down to 1 inch (25 mm) in depth.

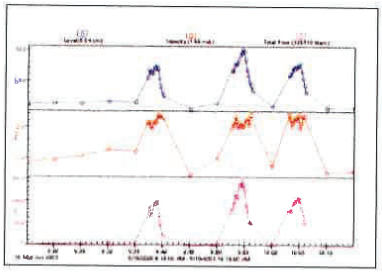
## *Standard Features*

- Rugged, submersible enclosure meets NEMA 4X, 6P (IP68) environmental specs.
- Chemically resistant epoxy-encapsulated sensor withstands abuse, resists oil and grease fouling, and eliminates the need for frequent cleaning.
- Replaceable high-capacity internal desiccant cartridge and hydrophobic filter protect sensor reference from water entry and internal moisture.
- Pressure transducer vent system automatically compensates for atmospheric pressure changes to maintain accuracy.
- The quick-connect sensor can be easily removed and interchanged in the field without requiring recalibration.
- Up to four 2100 Series flow modules can be networked by stacking and/or extension cables.

*Above left: Additional modules can be added for redundant or multi-stream measuring (Isco 2110 Ultrasonic Module shown).*
*Right: Optional mounting rings provide quick, secure sensor installation in round pipes from 6 to 80 inches (150 to 2000 mm).*

## *Software Features*

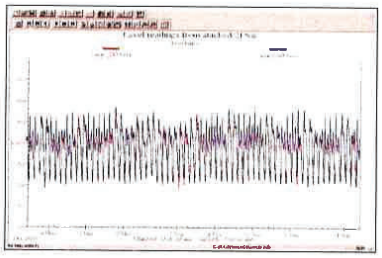
- Secure data storage. All data are continuously stored in flash memory to protect against loss in case of power failure
- Easy to upgrade. New operating software can be downloaded into non-volatile flash memory, without affecting stored program and data.
- Records and stores input voltage and temperature data.
- Variable rate data storage lets you change the data storage interval when programmed conditions occur. This feature assures maximum information about an exceptional event – such as an overflow – while conserving power and data capacity during normal conditions.
- 38,400 bps communication provides speedy setup and data retrieval.



### *Variable rate data storage*

*The 2150 flow module has the ability to automatically switch data storage rates based on varying conditions.*

*In the example at left, the 5-minute data storage rate automatically changed to 30 seconds when the flow rose above a programmed level.*



### *Level stability*

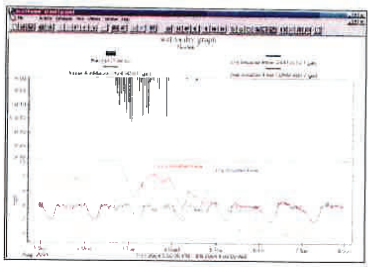
*Frequent multipoint level recalibration is a requirement with other area velocity flow meters. Isco's exclusive "smart" sensor design in the area velocity probe yields exceptionally low drift in the level signal.*

*The 2150's factory-calibrated 3-meter span totally eliminates the need for cumbersome span recalibration in the field.*

*In the example at left, two area velocity probes were installed at the same site. The level readings from both sensors track closely without any drift, over an 8-week period.*

## *Flowlink® Data Analysis*

Isco Flowlink® Software is a powerful tool for analyzing flow and water quality data. It provides site setup, data retrieval, and comprehensive data analysis, as well as advanced reporting and graphing. See separate datasheets for details on Flowlink and Flowlink Pro software.



*The Flowlink screen shown above gives a comparison of dry and wet weather flows, plus rainfall typical of an inflow & infiltration study.*

## *Information Delivery*

Isco 2100 Series Flow Modules offer a wide variety of communication and retrieval options, to minimize the need for expensive on-site visits and confined space entry. These include:

**Isco 2103 Land-line Modem Module**
Reliable two-way dial-up communication between down-hole 2100 Flow Modules and your desktop computer, equipped with Isco Flowlink Software. A dial-out feature enables the system to transmit a text message alarm to your digital cell phone or pager.

**Isco 2103c Cellular Modem Module**
All the features of the 2103 Modem with the convenience of cell phone access. And the 2103c can automatically send data via the Internet to a designated server running Flowlink Pro software, using economical 1xRTT packet-switched data transmission.

**Isco 2108 Analog Output Module**
Provides current outputs for use with Isco 2100 Series Area Velocity and Ultrasonic Flow Modules. It allows easy interface with SCADA/DCS or other secondary instrument systems.

**Modbus**
2100 Series Flow Modules provide digital RS 232 Modbus output that can be used to interface with external communication modules, SCADA systems, or other devices.

## *On-site Data Retrieval*

**Isco Flowlink Software**
Download and process data on-site. Enjoy unmatched data management capability, advanced data editing and analysis, powerful reporting and presentation choices, and a variety of downloading and data handling options.

**Isco 2101 Field Wizard**
A durable, weatherproof module for on-site data retrieval. Don't risk damage to your fragile notebook PC. The 2101 Field Wizard provides on-site display of current readings, information about stored data, diagnostics, and more.

Interrogate all 2100 Series Flow Modules in the stack at one time, and store more than 14 days' data from up to 20 modules!

**Isco 2102 Communication Module**
Connect with your Isco 2100 Series Flow Modules from the safety and convenience of your vehicle.

Digital spread-spectrum radio signals enable "drive-up" data retrieval, system configuration, and level calibration, with minimum power consumption. "Plug and Play" setup – no interfacing needed.

## Neitzel, Donald

**From:** Neitzel, Donald
**Sent:** Friday, September 13, 2019 1:59 PM
**To:** Bilke, Elizabeth
**Subject:** FW: 2150 Lease
**Attachments:** Flow link pro.pdf; 2150_AV_Flow_Module.pdf; 2103Ci_Cellular_Module_CDMA.pdf

**From:** Tom Mulcahy <tmulcahy@mulcahyshaw.com>
**Sent:** Friday, August 23, 2019 1:23 PM
**To:** Neitzel, Donald <dneitzel@geo-logic.com>
**Subject:** 2150 Lease

Dan,

Enclosed is the quote for the 2150 A/V Meters:

1 - 2150 Meter, Battery Box, A/V Sensor cables, Includes hardware $850.00 per unit/ per month

**Please specify pipe sizes***

1- 2103CI Modem $512.00 per unit/ per month

1- Flowlink Pro $580.00 per month

1- Installation for 2 people by MSW confined space entry $850.00 per day

If you have any questions, please feel free to call me.

Thanks,

Tom

Tom Mulcahy
President
Mulcahy Shaw Water
Process Equipment & Instrumentation Representatives
N57 W6316 Center Street | Cedarburg, WI 53012
P: (262) 241-1199
F: (262) 241-4997

MULCAHY SHAW WATER

# QUOTATION

Quote Number: 12738
Quote Date: Aug 30, 2019

**Mulcahy Shaw Water, Inc**

N57 W6316 Center Street
Cedarburg, WI 53012

Voice: 262-241-1199
Fax: 262-241-4997

Shipping: FOB Factory
Freight: Not Included

**Bill To:**

Kunkel Engineering Group
107 Parallel St.
Beaver Dam, WI 53916

Don Neitzel
920-356-9447
dneitzel@kunkelengineering.com

**Ship To:**

Kunkel Engineering Group
107 Parallel St.
Beaver Dam, WI 53916

| Quoted By | Good Thru | Payment Terms | Delivery |
|---|---|---|---|
| | 9/29/19 | Net 30 Days | 2-3 weeks |

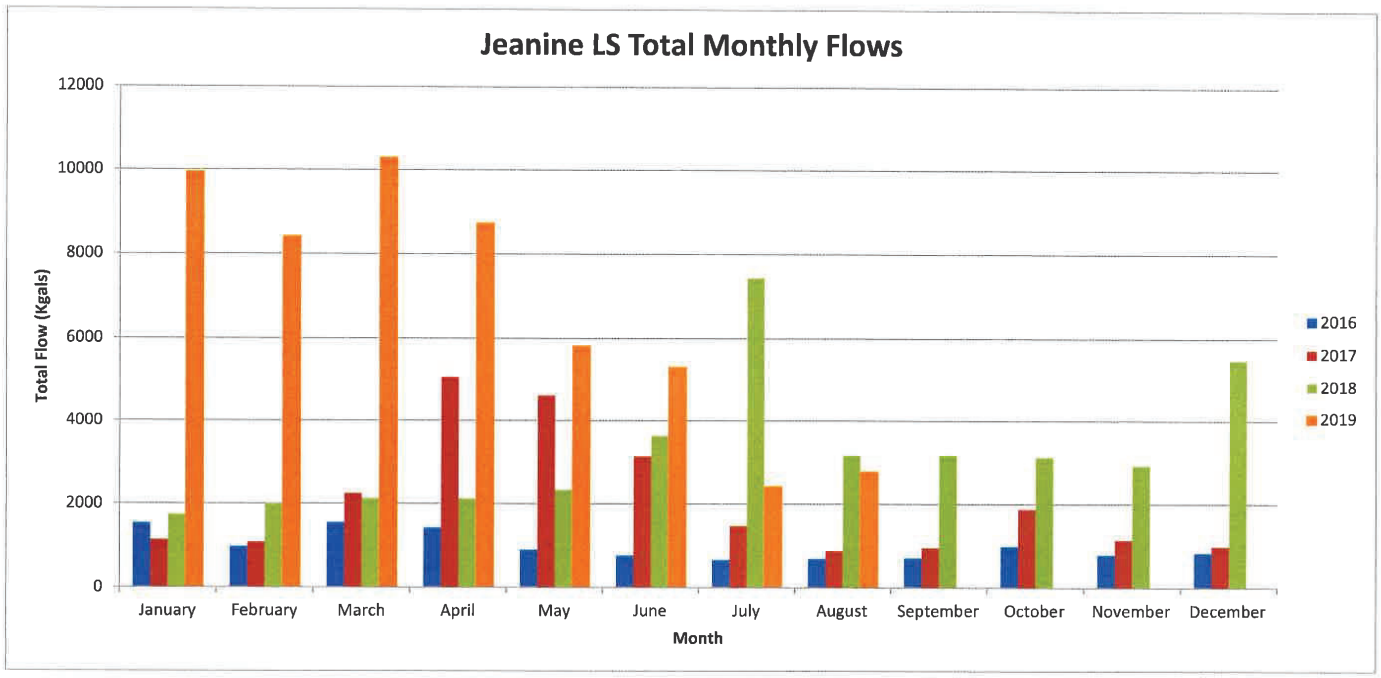
| Quantity | Item | Description | Unit Price | Amount |
|---|---|---|---|---|
| 1.00 | 68-2050-002 | 2150 flow module with 2191 battery module. Includes Area velocity sensor with 10 ft. level measurement range and 33ft. cable, 2 battery holders | 5,459.00 | 5,459.00 |
| 1.00 | 68-2000-098 | 2103CI CDMA phone package | 2,310.00 | 2,310.00 |
| 1.00 | 68-2540-276 | Flowlink Pro Software, two total licenses | 3,085.00 | 3,085.00 |
| 1.00 | 60-2004-507 | USB communication cable, 10 ft. connects 2100 series module top connector to PC with USB connector. | 288.00 | 288.00 |
| 1.00 | Start Up | Initial Programming & Training | 850.00 | 850.00 |
| 1.00 | 68-3200-008 | 8" Spring Ring | 107.00 | 107.00 |
| 1.00 | 68-3200-009 | Spring ring for 10 inch diameter pipe | 112.00 | 112.00 |
| 1.00 | 68-3000-042 | Scissor ring for 16" to 23" diameter pipe. | 523.00 | 523.00 |
| 1.00 | 68-3000-043 | Scissor ring for 16 inch to 36 inch pipes | 663.00 | 663.00 |

| | |
|---|---|
| Subtotal | 13,397.00 |
| Sales Tax | 743.55 |
| Freight | 122.00 |
| **TOTAL** | **14,262.55** |

Please make Purchase order to Mulcahy Shaw Water, Inc.

Plus Sales Tax/ Tax Exempt Certificate Required

Plus Freight


Jeanine LS Total Monthly Flows
12000
10000
8000
6000
4000
2000
0
Total Flow (Kgals)
January
February
March
April
May
June
July
August
September
October
November
December
Month
2016
2017
2018
2019

**STATE OF WISCONSIN:** **LISBON SANITARY DISTRICT NO. 1:** **WAUKESHA COUNTY**

---

**ORDINANCE REPEALING AND RECREATING SECTION 1.03 (8) AND CREATING SECTION 1.14 OF THE SEWER SERVICE CODE OF LISBON SANITARY DISTRICT NO. 1, WAUKESHA COUNTY, WISCONSIN**

---

THE COMMISSIONERS OF LISBON SANITARY DISTRICT NO. 1, WAUKESHA COUNTY, WISCONSIN, DOES ORDAIN AS FOLLOWS:

SECTION 1: Section 1.03 (8) of the Sewer Service Code of Lisbon Sanitary District No. 1 is hereby repealed and recreated to read as follows:

(8) Laterals:

a. All laterals on private property shall be installed and maintained in accordance with State of Wisconsin Administrative Code as from time to time amended.

b. The Building Sewer shall be inspected by the Town of Lisbon Plumbing Inspector, or his designee, upon completion of placement of the lateral, and before backfilling, and tested before and after backfilling. The Town of Lisbon Plumbing Inspector, or his designee, may order any building sewer exposed and removed if said building sewer is covered before inspection.

c. The property owner may engage a plumber of their choice to install and maintain the service lateral. Any work that extends to the Sanitary District assets, (mains or lift stations) must be approved by the Sanitary District and the plumber doing such work must be engaged by the Sanitary District.

d. All sanitary sewer laterals shall be water or air tested before the floor drains are connected and before the permanent floor is constructed in the basement.

SECTION 2: Section 1.14 of the Sewer Service Code of Lisbon Sanitary District No. 1 is hereby created to read as follows:

(1) Grinder Pumps:

a. All buildings in which any building drain is to low to permit gravity flow to the public sewer, sanitary sewage carried by such drain shall be lifted by a Grinder Pump or other artificial means approved by the Sanitary District, and discharged to the lateral providing sanitary sewer service to that building. As used herein, the term "Grinder Pump" shall include the pump and all other appurtenances necessary to provide a connection to the sanitary sewer lateral that provides sanitary sewer service to that building.

b. Any Grinder Pump required to discharge sanitary sewage from the building to the sanitary sewer lateral shall be owned by the property owner.

c. The Sanitary District shall install all Grinder Pumps for customers of the Sanitary District. The Sanitary District shall maintain, repair and, if necessary, replace the Grinder Pump subject to the following conditions:

1. The property owner consents to the entry upon the property serviced by a Grinder Pump, of employees, and contractors employed by the Sanitary District for the purpose of maintaining, repairing and/or replacing the Grinder Pump; and,

2. The property owner annually consents to the inspection of the Grinder Pump; and,

3. The property owner complies with all rules, regulations and policies adopted by the Sanitary District for the operation and use of the Grinder Pump.

4. The property owner, by accepting the installation of a Grinder Pump at the expense of the Sanitary District, and the continued use of the Grinder Pump, shall be deemed to have consented to the entry upon the property and the annual inspection of the Grinder Pump as provided in this section, provided however, that any property owner may revoke such consent by written notice to the Sanitary District. Upon receipt of written notice withdrawing the consent, the Sanitary District shall no longer have any obligation to maintain, repair and/or replace the Grinder Pump on the subject property.

d. Not withstanding the anything contained herein to the contrary, in the event the Sanitary District determines that costs or expenses incurred for maintaining, repairing and/or replacing the Grinder Pump were caused by the negligence of the property owner, or, by misuse of the Grinder Pump by the property owner, such costs and expenses shall be reimbursed the Sanitary District by the property owner.

In the event the Sanitary District determines that the property owner is required to reimburse the Sanitary District for any costs associated with the maintaining, repairing and/or replacing the Grinder Pump, the property owners shall be notified of that determination as well as the amount of the cost and expense for which reimbursement is required. The property owner may

thereafter appeal that determination by the property owner, and upon receipt of such request, the Sanitary District shall provide notice to the property owner of the time and date that the property owner's appeal shall be reviewed. Upon completing review of the appeal, the Sanitary District shall issue a written decision, within a reasonable time, but in no event exceeding thirty (30) days following the completion of the appeal hearing. The decision may affirm, affirm in part or reverse the initial determination, and that decision shall be final and binding.

In the event any cost or expense for which the property owner is responsible under the terms of this provision is not paid within thirty (30) days after invoicing or after completion of any appeal hearing requested by the property owner, the cost or expense shall be placed on the tax rolls as a special charge in accordance with the provisions of Sec. 66.0627, Wis. Stats.

SECTION 3: All ordinances or parts of this ordinance conflicting or contravening the provisions of this ordinance are hereby repealed.

SECTION 4: This ordinance shall take effect upon passage and posting as provided by law.

Dated this_____day of_____, 2019.

_____
Dennis Golner, President

_____
Mark Vesely, Commissioner

_____
Linda Beal, Commissioner

ATTACHMENT D

**LISBON SANITARY DISTRICT**
**DETAILED OPERATING REVENUE AND EXPENSES**

| | AUDITED STATEMENTS | | | PROJECTED | PRELIMINARY BUDGET | FORECAST | FORECAST |
|---|---|---|---|---|---|---|---|
| | 2016 | 2017 | 2018 | 2019 | 2020 | 2021 | 2022 |
| CHARGES FOR SERVICE AND SALES | $ 239,326 | $ 313,898 | $ 272,912 | $ 310,685 | $ 551,798 | $ 566,261 | $ 580,917 |
| OTHER OPERATING REVENUE | 1,106 | 2,274 | 2,354 | 2,474 | 3,680 | 3,800 | 3,800 |
| TOTAL OPERATING REVENUES | $ 240,432 | $ 316,172 | $ 275,266 | $ 313,159 | $ 555,478 | $ 570,061 | $ 584,717 |
| | | | | | | | |
| OPERATING AND MAINTENANCE EXPENSES | | | | | | | |
| SEWAGE TREATMENT | $ 154,396 | $ 270,985 | $ 302,576 | $ 476,930 | $ 348,656 | $ 362,602 | $ 377,106 |
| REPAIR AND MAINTENANCE | 50,961 | 62,020 | 86,999 | 80,337 | 67,521 | 70,000 | 75,000 |
| REPLACEMENT | - | 2,320 | - | - | - | - | - |
| UTILITIES | 4,180 | 4,281 | 4,338 | 4,141 | 4,494 | 4,500 | 4,700 |
| ENGINEERING | 30,800 | 22,980 | 23,255 | 46,595 | 22,500 | 23,000 | 24,000 |
| GENERAL AND ADMINISTRATIVE | | | | | | | |
| COMMISSIONERS COMPENSATION | 3,495 | 4,020 | 3,320 | 3,320 | 3,320 | 3,320 | 3,320 |
| DISTRICT ADMINISTRATION FEE | 20,040 | 20,116 | 17,713 | 16,805 | 14,569 | 14,500 | 14,500 |
| LEGAL AND PROFESSIONAL | 7,665 | 385 | 5,287 | 16,650 | 13,200 | 14,000 | 15,000 |
| ACCOUNTING AND AUDIT | 12,550 | 9,950 | 11,250 | 10,000 | 10,000 | 10,500 | 11,000 |
| INSURANCE | 3,108 | 3,435 | 931 | 2,744 | 3,000 | 3,000 | 3,100 |
| PUBLIC NOTICES | 118 | 250 | 394 | 300 | 450 | 450 | 500 |
| BANK CHARGES | 342 | 195 | (45) | 217 | 217 | - | - |
| SUPPLIES | 3,373 | 377 | 122 | 223 | 234 | 250 | 250 |
| POSTAGE | 1,038 | 1,078 | 965 | 1,320 | 1,109 | 1,200 | 1,300 |
| MISCELLANEOUS | 372 | 1,238 | 11,757 | 358 | 358 | 400 | 400 |
| | | | | | | | |
| OPERATING AND MAINTENANCE EXPENSES | $ 292,438 | $ 403,630 | $ 468,862 | $ 659,940 | $ 489,628 | $ 507,722 | $ 530,176 |
| DEPRECIATION | $ 58,128 | $ 57,578 | $ 57,269 | $ 58,000 | $ 58,000 | $ 58,000 | $ 58,000 |
| | | | | | | | |
| TOTAL OPERATING EXPENSES | $ 350,566 | $ 461,208 | $ 526,131 | $ 717,940 | $ 547,628 | $ 565,722 | $ 588,176 |
| | | | | | | | |
| OPERATING GAIN (LOSS) | $ (110,134) | $ (145,036) | $ (250,865) | $ (404,781) | $ 7,849 | $ 4,339 | $ (3,459) |


PREPARED ON: 9/18/2019

**LISBON SANITARY DISTRICT**
**STATEMENT OF REVENUES, EXPENSES**
**AND**
**CHANGE IN FINANCIAL POSITION**

| | AUDITED STATEMENTS | | | PROJECTED | PRELIMINARY BUDGET | FORECAST | FORECAST |
|---|---|---|---|---|---|---|---|
| | 2016 | 2017 | 2018 | 2019 | 2020 | 2021 | 2022 |
| OPERATING REVENUE | | | | | | | |
| CHARGES FOR SERVICE AND SALES | $ 239,326 | $ 313,898 | $ 272,912 | $ 310,685 | $ 551,798 | $ 566,261 | $ 580,917 |
| OTHER OPERATING REVENUE | 1,106 | 2,274 | 2,354 | 2,474 | 3,680 | 3,800 | 3,800 |
| TOTAL OPERATING REVENUES | $ 240,432 | $ 316,172 | $ 275,266 | $ 313,159 | $ 555,478 | $ 570,061 | $ 584,717 |
| OPERATING EXPENSES | | | | | | | |
| OPERATING AND MAINTENANCE | $ 292,438 | $ 403,630 | $ 468,862 | $ 659,940 | $ 489,628 | $ 507,722 | $ 530,176 |
| DEPRECIATION | 58,128 | 57,578 | 57,269 | 58,000 | 58,000 | 58,000 | 58,000 |
| TOTAL OPERATING EXPENSES | 350,566 | 461,208 | 526,131 | 717,940 | 547,628 | 565,722 | 588,176 |
| OPERATING GAIN (LOSS) | (110,134) | (145,036) | (250,865) | (404,781) | 7,849 | 4,339 | (3,459) |
| NON -OPERATING REVENUE (EXPESNES | | | | | | | |
| TAX LEVY | 44,000 | 44,000 | 44,000 | 45,300 | 90,000 | 90,000 | 90,000 |
| INVESTMENT INCOME | 2,009 | 3,948 | 9,410 | 7,463 | 5,181 | 5,181 | 5,181 |
| GAIN (LOSS) ON SALE OF ASSETS | | | (4,538) | - | - | - | - |
| TOTAL NON-OPERATING REVENUE (EXPENSES) | 46,009 | 47,948 | 48,872 | 52,763 | 95,181 | 95,181 | 95,181 |
| LOSS BEFOR ECONTRIBUTIONS | (64,125) | (97,088) | (201,993) | (352,019) | 103,030 | 99,520 | 91,722 |
| CAPITAL CONTRIBUTIONS | 13,454 | - | 15,859 | - | - | - | - |
| CHANGE IN NET POSITION | (50,671) | (97,088) | (186,134) | (352,019) | 103,030 | 99,520 | 91,722 |
| NET POSITION - BEGINNING OF THE YEAR | 3694993 | $ 3,644,322 | 3,547,234 | $ 3,361,100 | $ 3,009,081 | $ 3,112,112 | $ 3,211,632 |
| NET POSITION - END OF YEAR | $ 3,644,322 | $ 3,547,234 | $ 3,361,100 | $ 3,009,081 | $ 3,112,112 | $ 3,211,632 | $ 3,303,354 |


PREPARED ON: 9/18/2019

**LISBON SANITARY DISTRICT**
**STATEMENT OF NET POSITION**

| | AUDITED STATEMENTS | | | PROJECTED | PRELIMINARY BUDGET | FORECAST | FORECAST |
|---|---|---|---|---|---|---|---|
| | 2016 | 2017 | 2018 | 2019 | 2020 | 2021 | 2022 |
| **ASSETS** | | | | | | | |
| CURRENT ASSETS | | | | | | | |
| CASH, AND CASH INVESTMENTS | $ 426,948 | $ 360,014 | $ 218,636 | $ (137,824) | $ (50,663) | $ 90,801 | $ 228,876 |
| ACCOUNTS RECEIVABLE | 113,089 | 90,184 | 92,761 | $ 128,154 | 136,668 | 135,909 | 136,605 |
| PREPAID ITEMS | | | 2,000 | 2,000 | 2,000 | 2,000 | 2,000 |
| TOTAL CURRENT ASSETS | 540,037 | 450,198 | 313,397 | (7,671) | 88,005 | 228,710 | 367,481 |
| NON-CURRENT ASSETS | | | | | | | |
| RESTRICTED ASSETS | | | | | | | |
| CASH AND CASH INVESTMENTS | 195,188 | 236,190 | 279,990 | 325,690 | 372,690 | 419,690 | 466,690 |
| UTILITY PLANT | | | | | | | |
| PLANT IN SERVICE | 4,332,223 | 4,332,223 | 4,345,774 | 4,345,774 | 4,345,774 | 4,345,774 | 4,345,774 |
| ACCUMULATED DEPRECITION | (1,331,610) | (1,389,188) | (1,440,251) | (1,498,251) | (1,556,251) | (1,614,251) | (1,672,251) |
| TOTAL NON-CURRENT ASSETS | 3,195,801 | 3,179,225 | 3,185,513 | 3,173,213 | 3,162,213 | 3,151,213 | 3,140,213 |
| TOTAL ASSETS | 3,735,838 | 3,629,423 | 3,498,910 | 3,165,542 | 3,250,218 | 3,379,923 | 3,507,694 |
| **LIABILITES** | | | | | | | |
| ACCOUNTS PAYABLE | 44,186 | 38,189 | 92,510 | 93,000 | 93,000 | 93,000 | 93,000 |
| UNEARNED CONNECTION FEES | 3,330 | | | | | | |
| TOTAL LIABILITIES | 47,516 | 38,189 | 92,510 | 93,000 | 93,000 | 93,000 | 93,000 |
| DEFERRED INFLOWS OF RESOURCES | | | | | | | |
| UNEARNED REVENUE | 44,000 | 44,000 | 45,300 | 90,000 | 90,000 | 90,000 | 90,000 |
| **NET POSITION** | | | | | | | |
| CAPITAL CONTRIBUTIONS | | | | | | | |
| INVESTMENT IN CAPITAL ASSETS | 3,000,613 | 2,943,035 | 2,905,523 | 2,847,523 | 2,789,523 | 2,731,523 | 2,673,523 |
| PRESTRICTED FOR EQUIPMENT REPLACEMENT | 195,188 | 236,190 | 279,990 | 325,690 | 372,690 | 419,690 | 466,690 |
| UNRESTRICTED | 448,521 | 368,009 | 175,587 | (164,132) | (50,101) | 60,419 | 163,141 |
| TOTAL NET POSITION | 3,644,322 | 3,547,234 | 3,361,100 | 3,009,081 | 3,112,112 | 3,211,632 | 3,303,354 |


PREPARED ON: 9/18/2019

ATTACHMENT E

LISBON SANITARY DISTRICT #1
SCHEDULE OF PROPOSED RATES
2020, 2021, 2022

| | ACTUAL | | | PROPOSES | | |
|---|---|---|---|---|---|---|
| | 2017 | 2018 | 2019 | 2020 | 2021 | 2022 |
| QUARTERLY RESIDENTIAL RATE | $ 90.00 | $ 90.00 | $ 105.00 | $ 220.00 | $ 225.00 | $ 230.00 |
| WILLOW SPRINGS | | | | | | |
| TREATMENT RATE PER 1000 GAL | $ 3.46 | $ 3.55 | $ 3.62 | $ 3.71 | $ 3.84 | $ 3.97 |
| FIXED CHARGE | $ 2,124.24 | $ 2,124.24 | $ 2,124.24 | $ 2,124.24 | $ 2,198.59 | $ 2,275.54 |
| RICHMOND SCHOOL | | | | | | |
| TREATMENT RATE PER 1000 GAL | $ 3.46 | $ 3.55 | $ 3.62 | $ 3.71 | $ 3.84 | $ 3.97 |
| TOWN OF LISBON | | | | | | |
| TREATMENT RATE PER 1000 GAL | $ 3.46 | $ 3.55 | $ 3.62 | $ 3.71 | $ 3.84 | $ 3.97 |
| HAMILTON SCHOOL, HAMILTON FINE ARTS, TEMPLETON MIDDLE , SILVER SPRING SCHOOL | | | | | | |
| TREATMENT RATE PER 1000 GAL | | | $ 3.62 | $ 3.71 | $ 3.84 | $ 3.97 |
| LANNON INTERCEPT RATE PER 1000 GAL (A) | | | $ 0.84 | $ 0.87 | $ 0.90 | $ 0.93 |
| ADMINISTRATIVE RATE PER 1000 GAL | | | $ 0.08 | $ 0.08 | $ 0.08 | $ 0.08 |
| TOTAL RATE | | | $ 4.54 | $ 4.66 | $ 4.82 | $ 4.98 |

(A) ADJUSTED QUATERLY FOR ACTUAL AVERAGE RATE BILLED BY LANNON


Date Prepared: 9/18/2019

LISBON SANITARY DISTRICT #1
SCHEDULE OF PROPOSED RATES
2020, 2021, 2022

| | | | | |
|---|---|---|---|---|
| LIED'S ADDITION UNMETERED QUARTERLY RATE | | | | |
| TREATMENT COMPONENT | 165.56 | 168.63 | 174.53 | 180.65 |
| LANNON INTERCEPT COMPONENT | 32.19 | 33.34 | 34.49 | 35.62 |
| LISBON ADMINISTRATIVE COMPONENT | 19.16 | 19.16 | 19.92 | 20.7 |
| | $ 216.91 | $ 221.13 | $ 228.94 | $ 236.97 |
| COMMERCIAL RATE LIED'S ADDITION METERED RATE | | | | |
| TREATMENT RATE PER 1000 GAL | $ 3.62 | $ 3.71 | $ 3.84 | $ 3.97 |
| LANNON INTERCEPT RATE PER 1000 GAL (A) | $ 0.84 | $ 0.87 | $ 0.90 | $ 0.93 |
| ADMINISTRATIVE RATE PER 1000 GAL | $ 0.50 | $ 0.50 | $ 0.52 | $ 0.54 |
| TOTAL RATE | $ 4.96 | $ 5.08 | $ 5.26 | $ 5.44 |

(A) ADJUSTED QUATERLY FOR ACTUAL AVERAGE RATE BILLED BY LANNON


Date Prepared: 9/18/2019

LISBON SANITARY DISTRICT #1
SCHEDULE OF PROPOSED RATES
2020, 2021, 2022

| | | | | | |
|---|---|---|---|---|---|
| **Interceptor System Assessment**<br>*PAYABLE TO TOWN OF LISBON* | $550.00 | $ 550.00 | $ 565.00 | $ 580.00 | $ 595.00 |
| | Installed 1990<br>Assessment is charged to all lots served or potentially served<br>This is to recover cost of lisbon interceptor | | | | |
| **Lisbon Seweage Treatment Plant Capacity Charge**<br>*PAYABLE TO TOWN OF LISBON* | | $ 2,249.00 | $ 2,315.00 | $ 2,385.00 | $ 2,455.00 |
| | Charged to all connected to the Lisban Sanitary<br>District #1 outside Area 1<br>and in Area 1 after the required payments<br>to Sussex have been met. | | | | |
| **Collector System Assessment**<br>*PAYABLE TO THE LISBON SANITARY DISTRICT* | $5,716.64 | $ 5,970.00 | $ 6,150.00 | $ 6,335.00 | $ 6,525.00 |
| | Charged to all used and reserved hook-ups<br>Total cost of collector system extensions are paid by lots served<br>Minimum fee is current collector system assessment<br>The collector system will be extended when:<br>1. 50% or more lots request the extension<br>2. If a septic system is condemned.<br>This is to pay for engineering and administration of extension | | | | |
| **Sussex Hook-up Fee ( payable to Sussex )**<br>*PAYABLE TO SUSSEX SEWER* | $4,949.00 | $ 5,170.00 | $ 5,480.00 | $ 5,645.00 | $ 5,815.00 |
| | $ 1700.00 for each of the origin 410 connections was paid to Sussex<br>New hook-ups are charged the current Sussex fee.<br>This is to pay for tretment plan | | | | |

LISBON SANITARY DISTRICT #1
SCHEDULE OF PROPOSED RATES
2020, 2021, 2022

**LISBON HOOK UP CHARGE FOR PLANT CAPACITY**

*PAYABLE TO TOWN OF LISBON*

| | | | | |
|---|---|---|---|---|
| AREA 1 | $ 3,361.48 | $ 3,479.13 | $ 3,600.90 | $ 3,726.93 |
| AREA 4 | $ 11,413.89 | $ 11,813.37 | $ 12,226.84 | $ 12,654.78 |
| NAGY | $ 2,210.89 | $ 2,288.27 | $ 2,368.36 | $ 2,451.25 |
| BROWN | $ 2,211.01 | $ 2,288.40 | $ 2,368.49 | $ 2,451.39 |
| FIKALSKI | $ 2,208.26 | $ 2,285.55 | $ 2,365.54 | $ 2,448.33 |
| HWY K MISC | $ - | $ - | $ - | $ - |
| CONDON | $ 2,210.33 | $ 2,287.69 | $ 2,367.76 | $ 2,450.63 |
| NAGY CONDO | $ 2,211.84 | $ 2,289.25 | $ 2,369.37 | $ 2,452.30 |
| HOME | $ 2,210.77 | $ 2,288.15 | $ 2,368.24 | $ 2,451.13 |
| MEISSNER | $ 2,208.07 | $ 2,285.35 | $ 2,365.34 | $ 2,448.13 |
| HALQUIST DAWSON | $ - | $ - | $ - | $ - |
| | | | | |
| TOTAL ADDED AREA | $ 2,001.33 | $ 2,071.38 | $ 2,143.88 | $ 2,218.92 |


Date Prepared: 9/18/2019

LISBON SANITARY DISTRICT #1

ATTACHMENT G

SEPTEMBER CHECKS APPROVED

| Check Nbr | Check Date | Payee | Check Amount | Memo | APPROVED | DENIED |
|---|---|---|---|---|---|---|
| 2815 | 08/20/2019 | MARTELLE WATER TREATMENT | $ 1,551.75 | INVOICE 18231 | $ 1,551.75 | |
| 2820 | 09/18/2019 | Cramer, Multhauf & Hammes, LLP | $ 1,942.50 | | $ 1,942.50 | |
| 2821 | 09/18/2019 | DeBelak, Joe Plumbing & Heating Company Inc. | $ 165.00 | | $ 165.00 | |
| 2822 | 09/18/2019 | FRED'S SANITARY SERVICE | $ 1,900.00 | | $ 1,900.00 | |
| 2823 | 09/18/2019 | LYNCH & ASSOCIATES ENGINEERING CONSULTANTS LL | $ 3,747.32 | | $ 3,747.32 | |
| 2824 | 09/18/2019 | MARTELLE WATER TREATMENT | $ 1,551.75 | INV 18829 | $ 1,551.75 | |
| 2825 | 09/18/2019 | TAX MANAGEMENT & FINANCIAL HORIZONS | $ 1,316.70 | | $ 1,316.70 | |
| 2826 | 09/18/2019 | Village of Sussex | $ 23,760.28 | | $ 23,760.28 | |
| 2827 | 09/18/2019 | WE Energies | $ 227.68 | | $ 227.68 | |
| 2828 | 09/18/2019 | Golner, Dennis | $ 465.00 | | $ 465.00 | |
| 2829 | 09/18/2019 | Vesley, Mark | $ 365.00 | | $ 365.00 | |
| | | **TOTAL** | **$ 36,992.98** | | **$ 36,992.98** | |

# LISBON SANITARY DISTRICT #1
# SUMMARY OF QUOTE LETTERS
# PROPOSED

ENGINEERING

1. CTW
2. KUNKEL ENGINEERING GROUP

PLUMBING

1. JOE DEBELAK PLUMBING & HEATING CO. INC.
2. MUSKEGO PUMP AND PLUMBING
3. AUSTIN PLUMBING COMPANY

ACCOUNTING

1. TAX MANAGEMENT & FINANCIAL HORIZONS
2. D&M ACCOUNTING
3. FARROW & ASSOCIATED LLC

AUDITING

1. BAKER TILLY VIRCHOW KRAUSE, LLP

SNOW PLOWING

1. GESSLER AUTO SALES
2. ZEILER LANDSCAPE LLC
3. PATRIOT LANDSCAPE

LIFT PUMP REPAIR AND MAINTENCE

1. LW ALLEN LLC
2. AUSTIN PLUMBING COMPANY

ATTACHMENT G



CHECKING ALL Checks

Posted From: 9/18/2019 From Account:
Thru: 9/18/2019 Thru Account:

| Check Nbr | Check Date | Payee | | | Amount |
|---|---|---|---|---|---|
| 2820 | 9/18/2019 | Cramer, Multhauf & Hammes, LLP | | | |
| 100-00-52100-000-000 | | LEGAL FEES | | | 1,942.50 |
| | | | | Total | 1,942.50 |
| 2821 | 9/18/2019 | DeBelak, Joe Plumbing & Heating Company Inc. | | | |
| 100-00-55000-000-000 | | MAINTENANCE & REPAIRS | 119670 | | 165.00 |
| | | | | Total | 165.00 |
| 2822 | 9/18/2019 | FRED'S SANITARY SERVICE | | | |
| 100-00-55000-000-000 | | MAINTENANCE & REPAIRS | 131440 | | 250.00 |
| 100-00-55000-000-000 | | MAINTENANCE & REPAIRS | 131454 | | 325.00 |
| 100-00-55000-000-000 | | MAINTENANCE & REPAIRS | 131457 | | 325.00 |
| 100-00-55000-000-000 | | MAINTENANCE & REPAIRS | 131496 | | 250.00 |
| 100-00-55000-000-000 | | MAINTENANCE & REPAIRS | 131497 | | 250.00 |
| 100-00-55000-000-000 | | MAINTENANCE & REPAIRS | 131545 | | 500.00 |
| | | | | Total | 1,900.00 |
| 2823 | 9/18/2019 | LYNCH & ASSOCIATES ENGINEERING CONSULTANTS LL | | | |
| 100-00-55500-000-000 | | ENGINEERING FEES | 8631 | | 3,747.32 |
| | | | | Total | 3,747.32 |
| 2824 | 9/18/2019 | MARTELLE WATER TREATMENT | | | |
| INV 18829 | | | | | |
| 100-00-55000-000-000 | | MAINTENANCE & REPAIRS | | | 1,551.75 |
| INV 18829 | | | | | |
| | | | | Total | 1,551.75 |
| 2825 | 9/18/2019 | TAX MANAGEMENT & FINANCIAL HORIZONS | | | |

CHECKING ALL Checks

Posted From: 9/18/2019 From Account:
Thru: 9/18/2019 Thru Account:

| Check Nbr | Check Date | Payee | | Amount |
|---|---|---|---|---|
| 100-00-50500-000-000 | | DEPUTY SECRECTARY & BOOKKEPPIN | | 1,311.20 |
| | | | 8-10-19 TO 9-8-19 | |
| 100-00-53500-000-000 | | POSTAGE | | 5.50 |
| | | | 8-10-19 TO 9-8-19 | |
| | | | Total | 1,316.70 |
| 2826 | 9/18/2019 | Village of Sussex | | |
| 100-00-60100-000-000 | | SEWAGE TREATMENT EXPENSE | | 22,852.44 |
| 100-00-55000-000-000 | | MAINTENANCE & REPAIRS | | 260.00 |
| 100-00-55000-000-000 | | MAINTENANCE & REPAIRS | | 1,042.85 |
| 100-00-54100-000-000 | | UTILITIES | | 18.66 |
| 100-00-55000-000-000 | | MAINTENANCE & REPAIRS | | 60.00 |
| 100-00-60100-000-000 | | SEWAGE TREATMENT EXPENSE | | -473.67 |
| | | | Total | 23,760.28 |
| 2827 | 9/18/2019 | WE Energies | | |
| 100-00-54100-000-000 | | UTILITIES | | 227.68 |
| | | | Total | 227.68 |
| 2828 | 9/18/2019 | Golner, Dennis | | |
| 100-00-50000-000-000 | | COMMISSIONERS FEES | | 465.00 |
| | | | Total | 465.00 |
| 2829 | 9/18/2019 | Vesley, Mark | | |
| 100-00-50000-000-000 | | COMMISSIONERS FEES | | 365.00 |
| | | | Total | 365.00 |
| | | | Grand Total | 35,441.23 |

CHECKING ALL Checks

Posted From: 9/18/2019 From Account:
Thru: 9/18/2019 Thru Account:

| | Amount |
|---|---|
| Total Expenditure from Fund # 100 - GENERAL FUND | 35,441.23 |
| Total Expenditure from all Funds | 35,441.23 |

2815 8/20/19 Martelle Water Treatment $1,551.75
mailed out after last meeting

Total $36,992.98

ATTACHMENT H

9/18/2019 1:12 PM Balance Sheet Detail Report Page: 1
ACCT

Dated From: 1/01/2019 Fund: All Funds
Thru: 8/31/2019

| Account Number | | Debit | Credit |
|---|---|---|---|
| 100-00-10100-000-000 | CHECKING | | 7,655.33 |
| | CHECKING | | 7,655.33 |
| 100-00-10200-000-000 | MONEY MARKET | 2,071.83 | |
| | MONEY MARKET | 2,071.83 | |
| 200-00-10500-000-000 | S/A RECEIVABLE | | |
| 300-00-10500-000-000 | INVESTMENTS | | |
| | INVESTMENTS | | |
| 300-00-11000-000-000 | INTEREST RECEIVABLE | | |
| | INTEREST RECEIVABLE | | |
| 100-00-12000-000-000 | REPLACEMENT CASH | 159,619.20 | |
| 200-00-12000-000-000 | INVESTMENTS SPEC REV. | | |
| 300-00-12000-000-000 | DUE FROM SPEC REV | | |
| | DUE FROM SPEC REV | 159,619.20 | |
| 100-00-12100-000-000 | INVESTMENTS POOLED ACCT | 77,761.99 | |
| | INVESTMENTS POOLED ACCOUNT | 77,761.99 | |
| 100-00-12200-000-000 | SEWER USER FEES RECEIVABLE | 16,908.35 | |
| | SEWER USER FEES RECEIVABLE | 16,908.35 | |
| 100-00-12300-000-000 | Accts Rec- Interest | | |
| | ACCTS REC- INTEREST | | |
| 100-00-12400-000-000 | REC RELATED TO REIMB FROM TOWN | | |
| | REC RELATED TO REIMB FROM TOWN | | |
| 100-00-12500-000-000 | ACCOUNT RECL DEFERRED BILLING | 8,000.00 | |
| | ACCOUNT RECL DEFERRED BILLING | 8,000.00 | |
| 100-00-12600-000-000 | DUE FROM CUSTOMER FOR CAP CHAR | | |
| | RECEIVABLE CAPCITY BILLING | | |

Dated From: 1/01/2019
Thru: 8/31/2019

Fund: All Funds

| Account Number | | Debit | Credit |
|---|---|---|---|
| 400-00-13000-000-000 | DUE FROM GENERAL FUND | | |
| | DUE FROM GENERAL FUND | | |
| 100-00-13600-000-000 | SEWER CONNECTION REC | 2,522.00 | |
| | SEWER CONNECTION REC | 2,522.00 | |
| 100-00-14000-000-000 | TAXES RECEIVABLE | 706.90 | |
| 200-00-14000-000-000 | TAXES REVEIVABLE | | |
| | TAXES RECEIVABLE | 706.90 | |
| 100-00-15000-000-000 | DUE FROM OTHER FUNDS | | |
| | DUE FROM OTHER FUNDS | | |
| 100-00-15200-000-000 | DUE FROM SPECIAL REVENUE | | |
| | DUE FROM SPECIAL REVENUE | | |
| 100-00-15300-000-000 | DUE FROM DEBT SERVICE | | |
| | DUE FROM DEBT SERVICE | | |
| 100-00-15400-000-000 | DUE FROM CAPITAL PROJECTS | | |
| | DUE FROM CAPITAL PROJECTS | | |
| 100-00-16000-000-000 | UTILITY PLANT | 4,357,503.71 | |
| | UTILITY PLANT | 4,357,503.71 | |
| 100-00-16500-000-000 | ACCUMULATED DEPR. | | 1,440,251.16 |
| | ACCUMULATED DEPR. | | 1,440,251.16 |
| 100-00-16999-000-000 | PREPAID EXPENSE | 2,000.00 | |
| | PREPAID EXPENSE | 2,000.00 | |
| TOTAL ASSETS | | 3,179,187.49 | |
| 100-00-21000-000-000 | ACCOUNTS PAYABLE | | 31,650.49 |

Dated From: 1/01/2019
Thru: 8/31/2019

Fund: All Funds

| Account Number | | Debit | Credit |
|---|---|---|---|
| | ACCOUNTS PAYABLE | | 31,650.49 |
| 100-00-21100-000-000 | DUE SUSSEX | | |
| | DUE SUSSEX | | |
| 200-00-23000-000-000 | DEP FOR SERVICES NOT PERFORMED | | |
| | DEPOSITS FOR SERVICES NOT PERF | | |
| 100-00-25000-000-000 | DEFERRED REVENUE TAXES | | 45,300.00 |
| 200-00-25000-000-000 | DEFERRED REVENUE TAXES | | |
| | DEFERRED REVENUE TAXES | | 45,300.00 |
| 200-00-25100-000-000 | DEFERRED REVENUE - S/A | | |
| | DEFERRED REVENUE - S/A | | |
| 100-00-26000-000-000 | NOTE PAYABLE | | |
| | NOTE PAYABLE | | |
| 200-00-26100-000-000 | DUE TO GENERAL FUND | | |
| 300-00-26100-000-000 | DUE TO GENERAL FUND | | |
| 400-00-26100-000-000 | DUE TO GENERAL FUND | | |
| | DUE TO GENERAL FUND | | |
| 300-00-26200-000-000 | DUE TO/FROM SPEC. REV. (200) | | |
| 400-00-26200-000-000 | DUE TO/FROM SPEC. REV. (200) | | |
| | DUE TO/FROM SPEC. REV. (200) | | |
| 200-00-26300-000-000 | DUE TO/FROM DEBT SERVICE (300) | | |
| 400-00-26300-000-000 | DUE TO/FROM DEBT SERVICE (300) | | |
| | DUE TO/FROM DEBT SERVICE (300) | | |
| 200-00-26400-000-000 | DUE TO/FROM CAPITAL PROJ.(400) | | |
| 300-00-26400-000-000 | DUE TO/FROM CAPITAL PROJ.(400) | | |
| | DUE TO/FROM CAPITAL PROJ.(400) | | |

Dated From: 1/01/2019 Fund: All Funds
Thru: 8/31/2019

| Account Number | | Debit | Credit |
|---|---|---|---|
| TOTAL LIABILITY | | | 76,950.49 |
| 100-00-30000-000-000 | FUND BALANCE | | 3,350,800.40 |
| 200-00-30000-000-000 | FUND BALANCE | | |
| 300-00-30000-000-000 | FUND BALANCE | | |
| 400-00-30000-000-000 | FUND BALANCE | | |
| | FUND BALANCE | | 3,350,800.40 |
| TOTAL FUND EQUITY | | | 3,350,800.40 |
| | 2019 Revenues | | 233,430.93 |
| | 2019 Expenditures | 481,994.33 | |
| **GRAND TOTALS** | | 3,661,181.82 | 3,661,181.82 |

Fund: All Funds

Dated From: 1/01/2019
Thru: 8/30/2019

| Account Number | | 2019 August | 2019 Total |
|---|---|---|---|
| 100-00-40000-000-000 | USER FEES | 9,854.53 | 224,684.89 |
| 300-00-40000-000-000 | USER FEES | | |
| | USER FEES | 9,854.53 | 224,684.89 |
| 100-00-40100-000-000 | PLANT CAPASITY CHARGE | | |
| | SUSSEX PLANT PASSTHRU | | |
| 100-00-41000-000-000 | TAXES REVENUE | | |
| 200-00-41000-000-000 | S/A PRINCIPAL | | |
| | S/A PRINCIPAL | | |
| 200-00-41500-000-000 | S/A INTEREST | | |
| | S/A INTEREST | | |
| 100-00-42000-000-000 | MISCELLANEOUS CAPITAL PROJECTS | | |
| 400-00-42000-000-000 | MISCELLANEOUS CAPITAL PROJECTS | | |
| | CAPITAL CONTRIBUTION | | |
| 100-00-43000-000-000 | INTEREST INCOME | | 5,420.99 |
| 200-00-43000-000-000 | INTEREST INCOME | | |
| 300-00-43000-000-000 | INTEREST INCOME | | |
| | INTEREST INCOME | | 5,420.99 |
| 100-00-45000-000-000 | FINANCE CHARGE | | 1,463.54 |
| | FINANCE CHARGE | | 1,463.54 |
| 100-00-48000-000-000 | MISCELLANEOUS REVENUES | 100.00 | 910.12 |
| | MISCELLANEOUS REVENUES | 100.00 | 910.12 |
| 100-00-48001-000-000 | REIMBURSEMENTS FROM THE TOWN | | |
| | REIMBURSEMENTS FROM THE TOWN | | |
| 200-00-49000-000-000 | CAPITAL CONTRIBUTIONS | | |
| 300-00-49000-000-000 | TRANFERS IN | | |
| | CAPITAL CONTRIBUTIONS | | |

Fund: All Funds

Dated From: 1/01/2019
Thru: 8/30/2019

| Account Number | 2019 August | 2019 Total |
|---|---|---|
| Total Revenues | 9,954.53 | 232,479.54 |

Fund: All Funds

Dated From: 1/01/2019
Thru: 8/30/2019

| Account Number | | 2019 August | 2019 Total |
|---|---|---|---|
| 100-00-50000-000-000 | COMMISSIONERS FEES | | 1,660.00 |
| 300-00-50000-000-000 | PRINCIPAL EXPENSE | | |
| | PRINCIPAL EXPENSE | | 1,660.00 |
| 300-00-50100-000-000 | INTEREST EXPENSE | | |
| | INTEREST EXPENSE | | |
| 100-00-50500-000-000 | DEPUTY SECRECTARY & BOOKKEPPIN | 1,942.70 | 13,097.50 |
| | DEPUTY SEC & BOOKKEEPING | 1,942.70 | 13,097.50 |
| 100-00-51000-000-000 | TRAVEL | | |
| | TRAVEL | | |
| 100-00-52100-000-000 | LEGAL FEES | 2,205.00 | 11,707.50 |
| | LEGAL FEES | 2,205.00 | 11,707.50 |
| 100-00-52200-000-000 | AUDIT & ACCOUNTING FEES | | 10,000.00 |
| | AUDIT & ACCOUNTING FEES | | 10,000.00 |
| 100-00-52500-000-000 | BANK CHARGES | | 142.00 |
| | BANK CHARGES | | 142.00 |
| 100-00-53000-000-000 | PUBLICATION FEES | | |
| | PUBLICATION FEES | | |
| 100-00-53500-000-000 | POSTAGE | 230.85 | 944.40 |
| | POSTAGE | 230.85 | 944.40 |
| 100-00-53700-000-000 | INSURANCE | | 100.00 |
| | INSURANCE | | 100.00 |
| 100-00-54000-000-000 | SUPPLIES | | 156.15 |
| | SUPPLIES | | 156.15 |
| 100-00-54100-000-000 | UTILITIES | 307.38 | 2,741.47 |

Fund: All Funds

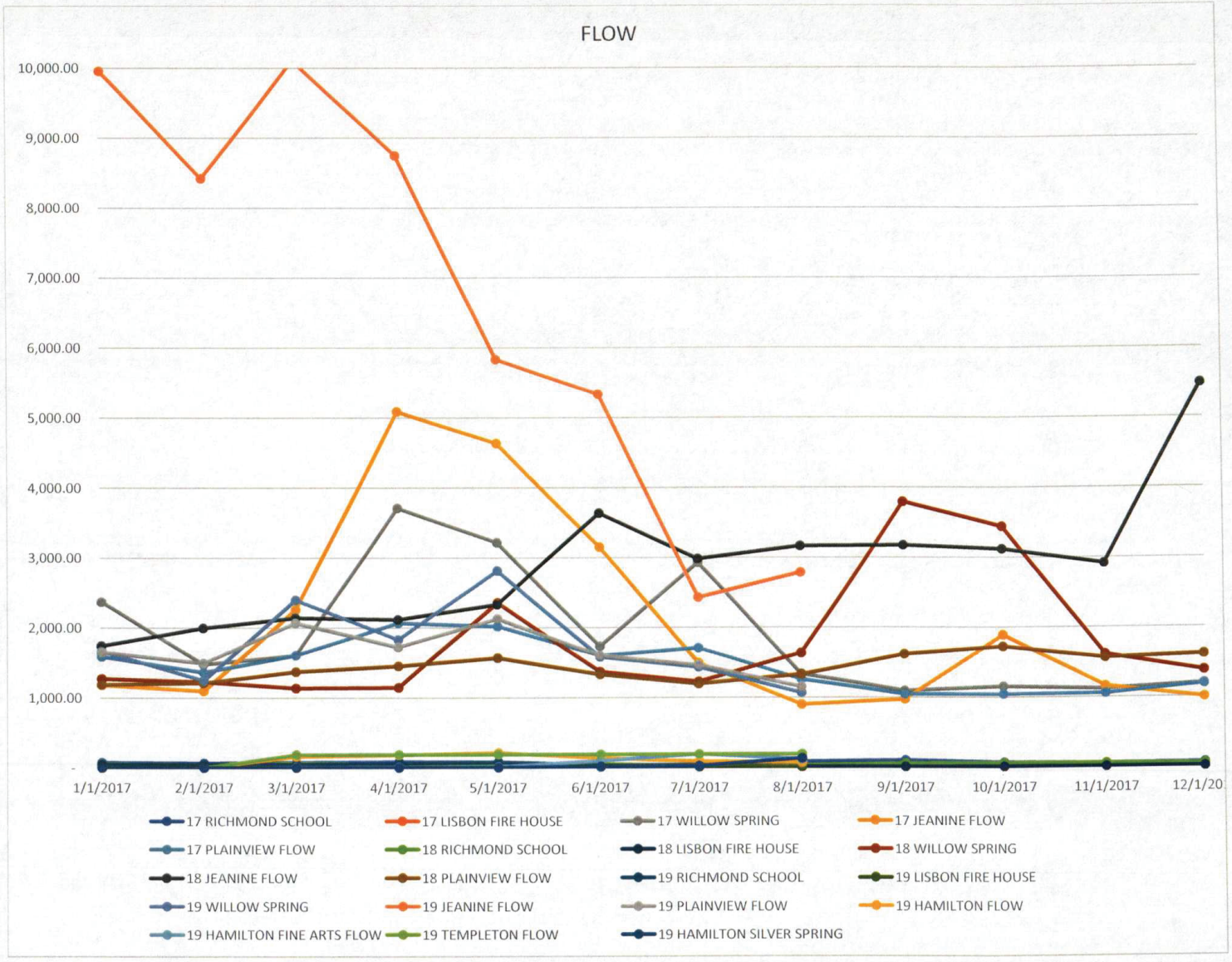
Dated From: 1/01/2019
Thru: 8/30/2019

| Account Number | | 2019 August | 2019 Total |
|---|---|---|---|
| | UTILITIES | 307.38 | 2,741.47 |
| 100-00-54500-000-000 | REPLACEMENT | | |
| | REPLACEMENT | | |
| 100-00-55000-000-000 | MAINTENANCE & REPAIRS | 5,497.57 | 55,264.75 |
| 400-00-55000-000-000 | CONTRACTORS | | |
| | CONTRACTORS | 5,497.57 | 55,264.75 |
| 100-00-55100-000-000 | MAINT AND REPAIR BILLED TO CUS | | -10,000.00 |
| | MAINT AND REPAIR BILLED TO CUS | | -10,000.00 |
| 100-00-55500-000-000 | ENGINEERING FEES | | 29,597.26 |
| 400-00-55500-000-000 | ENGINEERING FEES | | |
| | ENGINEERING FEES | | 29,597.26 |
| 100-00-56000-000-000 | DEPR EXPENSE | | |
| | DEPRECIATION EXPENSE | | |
| 100-00-56500-000-000 | LOSS ON DISP OF FIXED ASSETS | | |
| | LOSS ON DISP OF FIXED ASSETS | | |
| 100-00-57000-000-000 | MISCELLANEOUS EXPENSE | 204.80 | 489.00 |
| 400-00-57000-000-000 | MISCELLANEOUS EXPENSE | | |
| | MISCELLANEOUS EXPENSE | 204.80 | 489.00 |
| 100-00-58500-000-000 | INTEREST & FISCAL CHARGES | | |
| | INTEREST & FISCAL CHARGES | | |
| 200-00-59000-000-000 | TRANFERS OUT | | |
| | TRANSFERS OUT | | |
| 400-00-60000-000-000 | HOOKUP FEES | | |
| | HOOKUP FEES | | |
| 100-00-60100-000-000 | SEWAGE TREATMENT EXPENSE | 34,243.47 | 366,069.80 |

Fund: All Funds

Dated From: 1/01/2019
Thru: 8/30/2019

| Account Number | 2019 August | 2019 Total |
|---|---|---|
| SEWAGE TREATMENT EXPENSE | 34,243.47 | 366,069.80 |
| Total Expenses | 44,631.77 | 481,969.83 |
| Excess of Revenues Over (Under) Expenditures | (34,677.24) | (249,490.29) |


FLOW
10,000.00
9,000.00
8,000.00
7,000.00
6,000.00
5,000.00
4,000.00
3,000.00
2,000.00
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5/1/2017
6/1/2017
7/1/2017
8/1/2017
9/1/2017
10/1/2017
11/1/2017
12/1/20
17 RICHMOND SCHOOL
17 LISBON FIRE HOUSE
17 WILLOW SPRING
17 JEANINE FLOW
17 PLAINVIEW FLOW
18 RICHMOND SCHOOL
18 LISBON FIRE HOUSE
18 WILLOW SPRING
18 JEANINE FLOW
18 PLAINVIEW FLOW
19 RICHMOND SCHOOL
19 LISBON FIRE HOUSE
19 WILLOW SPRING
19 JEANINE FLOW
19 PLAINVIEW FLOW
19 HAMILTON FLOW
19 HAMILTON FINE ARTS FLOW
19 TEMPLETON FLOW
19 HAMILTON SILVER SPRING

LISBON SANITARY DISTRICT # 1
SUMMARY OF FLOW BY METER

| DESCRIPTION | 11/1/2016 | 12/1/2016 |
|---|---|---|
| RICHMOND SCHOOL | 48.00 | 66.90 |
| LISBON FIRE HOUSE | 5.90 | 8.50 |
| WILLOW SPRING | 1,560.00 | 2,525.00 |
| JEAMINE FLOW | 789.00 | 840.00 |
| PLAINVIEW FLOW | 1,418.00 | 1,499.00 |
| TOTAL BILLABLE FLOW | 1,613.90 | 2,600.40 |
| TOTAL FLOW | 3,820.90 | 4,939.40 |

| DESCRIPTION | 1/1/2017 | 2/1/2017 | 3/1/2017 | 4/1/2017 | 5/1/2017 | 6/1/2017 | 7/1/2017 | 8/1/2017 | 9/1/2017 | 10/1/2017 | 11/1/2017 | 12/1/2017 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 17 RICHMOND SCHOOL | 75.60 | 67.20 | 76.00 | 83.20 | 77.50 | 38.00 | 21.90 | 81.40 | 99.00 | 67.10 | 51.90 | 60.40 |
| 17 LISBON FIRE HOUSE | 7.20 | 7.50 | 8.90 | 8.00 | 7.20 | 8.20 | 6.90 | 7.10 | 7.90 | 7.00 | 7.20 | 9.00 |
| 17 WILLOW SPRING | 2,370.00 | 1,477.00 | 1,605.00 | 3,713.00 | 3,218.00 | 1,736.00 | 2,927.00 | 1,338.00 | 1,094.00 | 1,154.00 | 1,117.00 | 1,191.00 |
| 17 JEANINE FLOW | 1,184.00 | 1,096.00 | 2,257.00 | 5,086.00 | 4,633.00 | 3,149.00 | 1,490.00 | 897.00 | 969.00 | 1,889.00 | 1,158.00 | 996.00 |
| 17 PLAINVIEW FLOW | 1,587.00 | 1,362.00 | 1,605.00 | 2,068.00 | 2,018.00 | 1,599.00 | 1,706.00 | 1,256.00 | 1,042.00 | 1,041.00 | 1,050.00 | 1,183.00 |
| TOTAL BILLABLE FLOW | 2,452.80 | 1,551.70 | 1,689.90 | 3,804.20 | 3,302.70 | 1,782.20 | 2,955.80 | 1,426.50 | 1,200.90 | 1,228.10 | 1,176.10 | 1,260.40 |
| TOTAL FLOW | 5,223.80 | 4,009.70 | 5,551.90 | 10,958.20 | 9,953.70 | 6,530.20 | 6,151.80 | 3,579.50 | 3,211.90 | 4,158.10 | 3,384.10 | 3,439.40 |

| DESCRIPTION | 1/1/2018 | 2/1/2018 | 3/1/2018 | 4/1/2018 | 5/1/2018 | 6/1/2018 | 7/1/2018 | 8/1/2018 | 9/1/2018 | 10/1/2018 | 11/1/2018 | 12/1/2018 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 18 RICHMOND SCHOOL | 55.60 | 55.60 | 63.20 | 54.20 | 57.10 | 49.20 | 18.40 | 25.50 | 51.70 | 58.50 | 54.70 | 46.60 |
| 18 LISBON FIRE HOUSE | 7.40 | 7.40 | 8.70 | 8.70 | 8.30 | 10.20 | 6.10 | 9.10 | 6.80 | 9.00 | 6.00 | 6.40 |
| 18 WILLOW SPRING | 1,273.00 | 1,228.00 | 1,137.00 | 1,147.00 | 2,355.00 | 1,368.00 | 1,223.00 | 1,634.00 | 3,794.00 | 3,440.00 | 1615.00 | 1379.00 |
| 18 JEANINE FLOW | 1,744.00 | 1,997.00 | 2,142.00 | 2,119.00 | 2,333.00 | 3,638.00 | 2,985.00 | 3,167.00 | 3,177.00 | 3,122.00 | 2917.00 | 5486.00 |
| 18 PLAINVIEW FLOW | 1,190.00 | 1,213.00 | 1,371.00 | 1,453.00 | 1,568.00 | 1,332.00 | 1,195.00 | 1,327.00 | 1,618.00 | 1,725.00 | 1564.00 | 1612.00 |
| TOTAL BILLABLE FLOW | 1,336.00 | 1,291.00 | 1,208.90 | 1,209.90 | 2,420.40 | 1,427.40 | 1,247.50 | 1,668.60 | 3,852.50 | 3,507.50 | 1,675.70 | 1,432.00 |
| TOTAL FLOW | 4,270.00 | 4,501.00 | 4,721.90 | 4,781.90 | 6,321.40 | 6,397.40 | 5,427.50 | 6,162.60 | 8,647.50 | 8,354.50 | 6,156.70 | 8,530.00 |
| MONTH VARIANCE 2018 VS 2017 | | | | | | | | | | | | |
| TOTAL BILLABLE FLOW | (1,116.80) | (260.70) | (481.00) | (2,594.30) | (882.30) | (354.80) | (1,708.30) | 242.10 | 2,651.60 | 2,279.40 | 499.60 | 171.60 |
| TOTAL FLOW | (953.80) | 491.30 | (830.00) | (6,176.30) | (3,632.30) | (132.80) | (724.30) | 2,583.10 | 5,435.60 | 4,196.40 | 2,772.60 | 5,090.60 |
| YEAR TO DATE VARIANCE 2018 VS 2017 | | | | | | | | | | | | |
| TOTAL BILLABLE FLOW | (1,116.80) | (1,377.50) | (1,858.50) | (4,452.80) | (5,335.10) | (5,689.90) | (7,398.20) | (7,156.10) | (4,504.50) | (2,225.10) | (1,725.50) | (1,553.90) |
| TOTAL FLOW | (953.80) | (462.50) | (1,292.50) | (7,468.80) | (11,101.10) | (11,233.90) | (11,958.20) | (9,375.10) | (3,939.50) | 256.90 | 3,029.50 | 8,120.10 |

| DESCRIPTION | 1/1/2019 | 2/1/2019 | 3/1/2019 | 4/1/2019 | 5/1/2019 | 6/1/2019 | 7/1/2019 | 8/1/2019 | 9/1/2019 | 10/1/2019 | 11/1/2019 | 12/1/2019 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 19 RICHMOND SCHOOL | 50.500 | 53.700 | 49.800 | 62.900 | 78.000 | 32.300 | 33.500 | 35.600 | | | | |
| 19 LISBON FIRE HOUSE | 7.200 | 7.700 | 9.100 | 9.700 | 10.800 | 26.300 | 24.100 | 10.000 | | | | |
| 19 WILLOW SPRING | 1664.000 | 1247.000 | 2396.000 | 1831.000 | 2811.000 | 1579.000 | 1432.000 | 1065.000 | | | | |
| 19 JEANINE FLOW | 9957.000 | 8422.000 | 10107.000 | 8746.000 | 5832.000 | 5331.000 | 2428.000 | 2783.000 | | | | |
| 19 PLAINVIEW FLOW | 1650.000 | 1495.000 | 2069.000 | 1723.000 | 2130.000 | 1602.000 | 1461.000 | 1153.000 | | | | |
| 19 HAMILTON FLOW | 0.000 | 0.000 | 162.400 | 181.800 | 211.000 | 135.100 | 84.500 | 69.100 | | | | |
| 19 HAMILTON FINE ARTS FL | 0.000 | 0.000 | 7.300 | 8.500 | 11.300 | 94.200 | 188.900 | 114.900 | | | | |
| 19 TEMPLETON FLOW | 0.000 | 0.000 | 186.667 | 186.667 | 186.667 | 186.667 | 186.667 | 186.667 | | | | |
| 19 HAMILTON SILVER SPRIN | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 13.300 | 20.700 | 128.200 | | | | |
| TOTAL BILLABLE FLOW | 1,721.70 | 1,308.40 | 2,811.27 | 2,280.57 | 3,308.77 | 2,053.57 | 1,949.67 | 1,481.27 | - | - | - | - |
| TOTAL FLOW | 13,328.70 | 11,225.40 | 14,987.27 | 12,749.57 | 11,270.77 | 8,986.57 | 5,838.67 | 5,417.27 | - | - | - | - |