

EAST GOSHEN MUNICIPAL AUTHORITY

November 8, 2021

7:00 PM

Meeting will be held in the building!

1. CALL TO ORDER/PLEDGE OF ALLEGIANCE/MOMENT OF SILENCE

- a. Ask if anyone will be taping the meeting

2. CHAIRMAN'S REPORT/OTHER MEMBERS REPORTS

3. SEWER REPORTS

- a. Director of Public Works Report.
b. Pennoni Engineer's Report.
c. Big Fish Environmental Report

4. APPROVAL OF MINUTES

- a. October 11, 2021

5. APPROVAL OF INVOICES

Pennoni Invoice #1091962	\$	10,456.00	
Pennoni Invoice #1091966	\$	1,227.17	
Pennoni Invoice #1091967	\$	1,656.25	
Beyond Components Invoice #351097-4	\$	845.34	Paid
Connection Invoice #71730296	\$	131.50	Paid

6. LIAISON REPORTS

7. FINANCIAL REPORTS – (David Ware) Finance Director

- a. October Financial Report

8. OLD BUSINESS

- a. Mike Ellis – Westtown Way Pump Station
b. UV update

9. 2021 Goals:

Goal	Status
Ridley Creek Plant Compliance	January, February, March, April and May, June, July August, September and October were all in compliance and met all requirements
Continue to Monitor Upgrades at WGSTP and Westtown Way Pump Station July 7 th meeting	On Going
Continue to Implement Infiltration and Inflow for the Sewer System	On Going
Caustic Soda Project Mike Ellis is currently working on the Project	75% complete – Public Works is building the shelving
Replace sewer line Hershey Mill Estates trunk line replacement	Engineer will bring you up to date under old business. Mark has met with residents to keep them up to date
Hunt Country Pump Station Mag Meter Replacement	On – Hold
Hunt Country Pump Station Muffin Monster Replacement	On Hold
Hunt Country Pump Station Bypass Pump	On Hold
Three new meters for Ridley Creek Collection	Hibberd Lane is on line. Ridley Creek Plant is the next meter, In the process of replacing the meter at the plant.

10. NEW BUSINESS

- a. Sewage Treatment Agreement for 75, 79 and 81 Line Road. Information will be in the packet
- b. Sewer Extension Study

11. CAPACITY REQUESTS

12. ANY OTHER MATTER

13. CORRESPONDENCE AND REPORTS OF INTEREST

14. PUBLIC COMMENT

15. ADJOURNMENT

EAST GOSHEN MUNICIPAL AUTHORITY
EAST GOSHEN TOWNSHIP
1580 PAOLI PIKE, WEST CHESTER, PA 19380-6199

November 5, 2021

To: Municipal Authority
From: Mark Miller
Re: October 2021 Monthly Report

Monthly Flows: The average daily flow to West Goshen was 714,030 per day.

Meters: The meters were read on a daily basis. We have had technical issues with the Hibberd Lane meter, John Laidly has been working with the factory.

C.C. Collection: The pumping station were visited on a daily basis. As part of our routine maintenance we pulled pumps at each station. There were sent to Deckmen Electric for the seals and bearings to be looked over along with oil changes as well. Lenni has been on site performing maintenance checks of the pump station facilities. We had no problems to report for the month.

R.C. Collection: The same work was done to the two stations that was done at the Chester Creek stations. We made repairs to laterals in the Rossmore Development. Some of the cleanout were broken off and both were in the storm water swales taking on water.

Ridley Creek Plant: Public Works performed routine maintenance was performed with no problems to report. Lenni Electric started the preventive maintenance of the electrical components, so far they have found some minor problems. We had Pipe Data View come out and clean the sewer main at the Hershey Mill tennis courts up to Tanglewood Drive. We have done this every quarter to prevent the line from backing up due to grease building up.

Alarms: We responded to 23 alarms for October.

PA One Calls: We responded to over 61 PA One Calls for the month October.

Monthly Rainfall: 3.90 inches of rain for the month of October.

Lateral repairs or Caps: We repaired 4 laterals and inspected them.

**EAST GOSHEN MUNICIPAL AUTHORITY
ENGINEER'S REPORT
November 5, 2021**

Ridley Creek Sewage Treatment Plant (RCSTP)

- Caustic Soda Conversion – We are reviewing vendor quotes and will recommend a tank and chemical feed pump vendor at the December MA meeting. We also initiated design of the shelving for the pumps, which will be constructed by Public Works, but final layout will need to be determined in concert with the feed pump vendor based on suction and discharge piping and valving layouts. The plans have been updated to address the operator's comments. We also received comments from a chemical supplier, and we are evaluating if any other improvements or revisions are needed to meet their requirements. We will then provide the plans to the controls contractor and electrician for pricing.
- UV Disinfection System – We previously met with the Glasco UV system rep and received a quote and product information for their recommended vertical replacement system. We met with the Trojan system vendor, Kappe, on October 13 at the plant, and we are currently reviewing their recommendations and pricing for their horizontal system. Both Glasco and Trojan systems will require raising the walls of the UV channel and increasing the hydraulic grade of flow so we will perform a field hydraulics test with the assistance of the operator. We also received product information on Enaqua's system as a 3rd consideration, but it does not appear upon initial review that the system will be compatible, even with the aforementioned channel height modifications.
- NPDES Permit Renewal – We prepared and submitted the application to DEP on November 1 in accordance with the deadline. The lab has not yet provided all of the sampling results. Upon receipt, the comprehensive influent and effluent sampling data will be provided to DEP to supplement the application. DEP will begin their review upon receipt of that data.

Ridley Creek Collection System Permanent Meters

- No activity since our last report.

Westtown Way Pump Station

- No activity since our last report.

Sanitary Sewer Pipe Rehab

- Supplee Valley – No activity since our last report.
- Hershey's Mill Estates –
 - We expect to submit the PADEP General Permit GP-11 application for waterway impacts in early November. This permitting typically takes 90-120 days for review.
 - We are coordinating scheduling with Mark Miller for the subsurface groundwater and rock test pits. Our geotechnical engineers will be on-site to observe and to perform limited hand augers as well.

I&I Program

- No activity since our last report.

New Connections

- We completed and submitted the study report of costs and feasibility for public sewer extensions to ten unsewered neighborhoods.

Industrial Pretreatment Ordinance

- No activity since our last report. As discussed at the May MA meeting, a headworks study with sampling at the RCSTP can be conducted to set contaminant limits. Consideration should be given to budgeting for the headworks study and sampling in 2022.

END OF REPORT



Executive Summary¹

The Ridley Creek sewage treatment plant outfall 001 achieved compliance with the permit discharge limitations for the month of September 2021. All supplemental reports were submitted with the DMR. Discharge to the Applebrook irrigation lagoon remained in service. Chemical usage utilized for pH and total alkalinity remained consistent with previous months. Aluminium sulfate solution volumes slightly decreased during October (3 gal/day) as compared to September to achieve phosphorus removal. No significant mechanical or operational issues were observed during operation of sludge dewatering equipment or SBR treatment process. There were no odor complaints during the month.

Treatment Process Operation

Table 1 illustrates the final effluent composite sample data reported for outfall 001 for the September 2021 DMR.

Table 1

September 2021- Final Effluent - Outfall 001											
NPDES Permit Discharge Limitations	Flow	CBOD ₅		TSS		NH ₄ -N		Phosphorus, Total		Fecal Coliform	
	MGD	mg/L	lbs/ month	mg/L	lbs/ month	mg/L	lbs/ month	mg/L	lbs/ month	Geo Mean	Geo Mean
	Average	20	125	10	131	2.5	44	0.5	3	200	1,000
		40		15							
Sample Date											
September 7, 2021	0.242	2.5	5.0	3	6.1	0.100	0.20	0.10	0.20	1	0.0000
September 14, 2021	0.253	2.7	5.7	2	4.2	0.100	0.21	0.10	0.21		
September 21, 2021	0.264	2.7	5.9	4	8.8	0.100	0.22	0.10	0.22	1	0.0000
September 28, 2021	0.290	2.0	4.8	6	14.5	0.114	0.28	0.10	0.24	1	0.0000
Average	0.262	2.5	5.4	4	8.4	0.104	0.23	0.10	0.22	1	0.0
Minimum	0.242	2.0	4.8	2	4.2	0.100	0.20	0.10	0.20	1	0.0
Maximum	0.290	2.7	5.9	6	14.5	0.114	0.28	0.10	0.24	1	0.0

Compliance with the NPDES discharge permit was achieved during September. The monthly average total phosphorus was reported as 0.10 mg/L as compared to the permit limitation of 0.5 mg/L. The TSS samples were consistently in single digits and well below the weekly maximum of 15 mg/L. The monthly average TSS was reported as 4 mg/L as compared to the discharge limitation of 10 mg/L. The TSS weekly averages are presented below in Table 2.

Table 2

September 2021 Final Effluent Weekly TSS Averages	
Week 1	3 mg/L
Week 2	2 mg/L
Week 3	4 mg/L
Week 4	6 mg/L

The final effluent test results demonstrate that the biological treatment process performed well during September and October. Sequencing batch reactors (SBRs) numbered 2, 3 and 4 were in service. Process monitoring of each SBR included ammonia as N, nitrite as N, Nitrate as N, COD, SSV, MLSS and total phosphorus. Daily analysis of the final effluent flow equalization grab sample for total phosphorus is ongoing. Sample collection and analysis of the influent wastewater collected at the influent pump station wet well is ongoing.

Discharge to the Applebrook irrigation lagoon, outfall 002 continued through October.

Table 3 presents the available pollutant data for the Applebrook discharge reported as outfall 002 on the September 2021 DMR.

Table 3

September 2021 - Applebrook - Out Fall 002											
NPDES Permit Discharge Limitations	Flow	CBOD ₅		TSS		NH ₄ -N		Phosphorus, Total		Fecal Coliform	
	MGD		lbs/		lbs/		lbs/		lbs/	Geo Mean	Geo Mean
	Average	mg/L	month	mg/L	month	mg/L	month	mg/L	month		
	0.135	25		30		2.5	44	0.5	3	200	1,000
		40		45							
September 7, 2021	0.0560	2.5	1.17	3	1.40	0.100	0.05	0.10	0.05	1	0.0000
September 14, 2021	0.0551	2.7	1.24	2	0.92	0.100	0.05	0.10	0.05		
September 21, 2021	0.0525	2.7	1.18	4	1.75	0.100	0.04	0.10	0.04	1	0.0000
September 28, 2021	0.0535	2.0	0.89	6	2.68	0.114	0.05	0.10	0.04	1	0.0000
Average	0.054	2.5	1.1	4	1.7	0.104	0.05	0.10	0.05	1	0.0000
Minimum	0.054	2.0	0.9	2	0.9	0.100	0.04	0.10	0.04	1	0.0000
Maximum	0.054	2.7	1.2	6	2.7	0.114	0.05	0.10	0.05	1	0.0000

The influent wastewater pollutant concentrations and loading entering the wastewater treatment facility generally remained within the design concentration and organic loading values. The monthly average weekly concentrations were generally observed to be less than the design parameters for the treatment process.

Table 4 presents the available pollutant data for the influent wastewater collected at the doghouse manhole during September 2021.

Table 4

September 2021 - Influent Wastewater											
Design Basis	Flow	BOD ₅		TSS		NH ₄ -N		TKN, mg/L		Phosphorus, Total, mg/L	
	MGD Average	mg/L	lbs/day	mg/L	lbs/day	mg/L	lbs/day	mg/L	lbs/day	mg/L	lbs/day
		335	2,098	320	2,001	32	200	48	301	9.1	57
Sample Date											
September 7, 2021	0.406	188	636	320	1,083	32.5	110	38.3	130	4.2	14.2
September 14, 2021	0.419	205	716	297	1,037	33.2	116	46.6	163	6.0	21.0
September 21, 2021	0.406	245	829	283	958	36.5	124	45.4	154	6.1	20.6
September 28, 2021	0.426	280.0	995	330	1,172	35.6	126	47.5	169	4.9	17.4
Average	0.4141	230	794	308	1,063	34	119	44.5	154	5.3	18.3
Minimum	0.4058	188	636	283	958	33	110	38.3	130	4.2	14.2
Maximum	0.4259	280	995	330	1,172	37	126	47.5	169	6.1	21.0

The foam on the SBR surface reduced to approximately 5% to 10% coverage of the surface area. The foam thickness is approximately 3 to 4 inches with a light to medium brown color. These conditions may contribute to a decrease in clarity within the final effluent post flow equalization basins; however, the clarity is improved after passing through the disc filters. The operation strategy is to lower the MLSS to maintain a F:M ratio of 0.06 while ensuring the ammonia effluent discharge concentration remains within the seasonal limit of 2.5 mg/L.

Table 5 illustrates the available data for the final effluent composite sample data reported for outfall 001 for use with the October 2021 DMR.

Table 5

October 2021- Final Effluent - Outfall 001											
NPDES Permit Discharge Limitations	Flow	CBOD ₅		TSS		NH ₄ -N		Phosphorus, Total		Fecal Coliform	
	MGD	mg/L	lbs/ month	mg/L	lbs/ month	mg/L	lbs/ month	mg/L	lbs/ month	Geo Mean	Geo Mean
	Average	20	125	10	131	7.0	44	0.5	3.0	200	1,000
		40		15							
Sample Date											
October 5, 2021	0.261	2.8	6.1	3	6.5	0.100	0.22	0.10	0.22	1	0.0000
October 12, 2021	0.277	2.0	4.6	2	4.6	0.100	0.23	0.15	0.35	1	0.0000
October 19, 2021	0.228										
October 26, 2021	0.268										
Average	0.259	2.4	5.4	3	5.6	0.100	0.22	0.13	0.28	1	0.0
Minimum	0.228	2.0	4.6	2	4.6	0.100	0.22	0.10	0.22	1	0.0
Maximum	0.277	2.8	6.1	3	6.5	0.100	0.23	0.15	0.35	1	0.0

Table 6 presents the available pollutant data for the Applebrook discharge reported as outfall 002 on the October 2021 DMR.

Table 6

October 2021 - Applebrook - Out Fall 002											
NPDES Permit Discharge Limitations	Flow	CBOD ₅		TSS		NH ₄ -N		Phosphorus, Total		Fecal Coliform	
	MGD Average	mg/L	lbs/ month	mg/L	lbs/ month	mg/L	lbs/ month	mg/L	lbs/ month	Geo Mean	Geo Mean
	0.135	25		30		7.0	44	0.5	3	200	1,000
		40		45							
October 5, 2021	0.0484	2.8	1.13	3	1.21	0.100	0.04	0.50	0.20	1	0.0000
October 12, 2021	0.0535	2.0	0.89	2	0.89	0.100	0.04	0.00	0.00	1	0.0000
October 19, 2021	0.0439										
October 26, 2021	0.0455										
Average	0.048	2.4	1.0	3	1.1	0.100	0.04	0.25	0.10	1	0.0000
Minimum	0.046	2.0	0.9	2	0.9	0.100	0.04	0.00	0.00	1	0.0000
Maximum	0.046	2.8	1.1	3	1.2	0.100	0.04	0.50	0.20	1	0.0000

Table 7 represents the influent wastewater collected at the doghouse manhole during October 2021. The influent wastewater pollutant loadings remain within the design criteria for the treatment process and equipment.

Table 7

October 2021 - Influent Wastewater											
Design Basis	Flow	BOD ₅		TSS		NH ₄ -N		TKN, mg/L		Phosphorus, Total, mg/L	
		mg/L	lbs/day	mg/L	lbs/day	mg/L	lbs/day	mg/L	lbs/day	mg/L	lbs/day
	MGD Average	335	2,098	320	2,001	32	200	48	301	9.1	57
Sample Date											
October 5, 2021	0.368	224	687	355	1,090	33.4	103	52.4	161	6.2	19.0
October 12, 2021	0.410	327	1,118	377	1,289	28.8	98	44.0	150	7.8	26.7
October 19, 2021	0.357										
October 26, 2021	0.398										
Average	0.3832	276	903	366	1,189	31	100	48.2	156	7.0	22.8
Minimum	0.3565	224	687	355	1,090	29	98	44.0	150	6.2	19.0
Maximum	0.4100	327	1,118	377	1,289	33	103	52.4	161	7.8	26.7

PA DEP

No activity

Pennoni Associates

Provided Daily Effluent Monitoring supplemental reports for the NPDES permit renewal application as requested.

Significant Rainfall

During October, there were eight (8) days when rainfall occurred. There were three (3) events of rainfall exceeding 0.50 inches.

These events occurred on:

- October 5th 0.58 inches
- October 26th 1.00 inch
- October 30th 1.25 inches

A total of 3.95 inches of rainfall were measured during the month.

Plant operations were adjusted to manage the precipitation to prevent exceedances of the permitted discharge limitations for Outfall 001. Adjustments included reducing aeration minutes per cycle, extending decant minutes per cycle and reducing settling times.

Minor Preventative Maintenance

- Flushed chemical feed lines to the SBRs.
- Cleaned final effluent weir trough daily
- Skimmed surface of disc filters daily
- Drained and cleaned disc filters bi-weekly
- Cleaned buildings and laboratory

Chemical Usage:

October 2021		
Chemical	Daily Average	Total Monthly
Soda Ash, pounds	300	9,600
Aluminium Sulfate solution, gal	66.7	2,066

Flow data:

October 2021			
Flow Meter Location	Total Volume for Month, MG	Average Daily Flow, gpd	Daily Maximum Flow, gpd
Influent Wastewater to Screening Building*	12.893	415,911	489,210
Influent Wastewater to SBRs*	13.031	420,364	485,504
Internal Recycle**	0.402	12,983	103,470
Treated Effluent to Disc Filters	13.103	422,685	488,704
Final Effluent Discharge	8.281	267,129	329,000
Applebrook Golf Course	1.532	49,417	55,936

During October, the average monthly influent wastewater flow measured at the "field" flow meter was 415,911 gallons/day as compared to the influent flow into the SBRs as 420,364 gallon/day. The difference between the daily averages is 4,454 gpd, with the "field" flow meter measurements recorded as less than the influent to the SBR. These values would be considered typical as the flow volume into the SBRs includes internal recycle flows from the centrifuge and disk filters.

Maintenance and Repair Activities

October 13th

Tim Daly, Mike Ellis, and Erika Addison were onsite from Pennoni, as well as Evan Walters from Kappe, to discuss using a Trojan brand UV system. Evan was promoting the Trojan 3000 plus system. This would most likely require raising the wall height on the channel, and Evan had talked about bringing in a portable UV system to set up while the work was being completed so that we could maintain our level of disinfection.

October 20th

Technicians from Lenni Electric were on site performing the annual inspection of all of the control panels. They completed the inspections on the 21st.

October 26th

1.00" rain

Steve Walker from the Township changed the filter and the oil in the air compressor

Matthew arrived at the facility around 8:30PM to monitor the plant in consideration of the weather forecast of anywhere from 1.5" to 3 or 4" of rain depending on the news station. Fortunately, as the night went on, the forecasted amount of rain rapidly decreased, with only receiving one (1) inch of rain between 8pm and 8am. The plant performed well with its normal rain settings and maintained a fairly clear effluent.



**COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
BUREAU OF CLEAN WATER
DISCHARGE MONITORING REPORT (DMR)**

NAME: EAST GOSHEN MUNI AUTH CHESTER CNTY
 ADDRESS: 1580 PAOLI PIKE, WEST CHESTER PA, 19380-6107
 FACILITY: RIDLEY CREEK STP
 LOCATION: 1751 TOWNE DR, WEST CHESTER PA, 19380
 STAGE: Final Effluent

PA0050504	001
PERMIT NUMBER	OUTFALL NUMBER

MONITORING PERIOD						
YEAR	MO	DAY	YEAR	MO	DAY	
2021	09	01	TO	2021	09	30

Reporting Frequency: Monthly
 DMR Effective From: 09/01/2021
 DMR Effective To: 09/30/2021
 Permit Expires: 04/30/2022
 Permit Application Due: 11/01/2021
 No Discharge:

PARAMETERS REPORTED VALUES

PARAMETER		QUANTITY OR LOADING			QUANTITY OR CONCENTRATION				SAMPLING FREQUENCY	SAMPLING TYPE
		VALUE	VALUE	UNITS	VALUE	VALUE	VALUE	UNITS		
Dissolved Oxygen (00300)	Sample Measurement	***	***	***	8.29	***	***	mg/L	1/day	Grab
	Permit Requirement	***	***		5.0	***	***		1/day	Grab
pH (00400)	Sample Measurement	***	***	***	7.08	***	7.81	S.U.	1/day	Grab
	Permit Requirement	***	***		6.0	***	9.0	Min Max	1/day	Grab
Total Suspended Solids (00530)	Sample Measurement	8	15	lbs/day	***	3.8	6.0	mg/L	1/week	24-Hr Composite
	Permit Requirement	62	94		***	10.0	15.0	Avg Mo Wkly Avg	1/week	24-Hr Composite
Ammonia-Nitrogen (00610) (May-Oct)	Sample Measurement	< .2	***	lbs/day	***	< .1	***	mg/L	1/week	24-Hr Composite
	Permit Requirement	16	***		***	2.5	***	Avg Mo	1/week	24-Hr Composite
Total Phosphorus (00665)	Sample Measurement	< .2	***	lbs/day	***	< .1	***	mg/L	1/week	24-Hr Composite
	Permit Requirement	3.0	***		***	.5	***	Avg Mo	1/week	24-Hr Composite
Flow (50050)	Sample Measurement	.3	.958	MGD	***	***	***	***	Continuous	Measured
	Permit Requirement	Monitor & Report Avg Mo	Monitor & Report Daily Max		***	***	***		Continuous	Measured
Fecal Coliform (74055)	Sample Measurement	***	***	***	***	< 1	1	CFU/100 ml	1/week	Grab
	Permit Requirement	***	***		***	200	1000	Geo Mean IMAX	1/week	Grab
Carbonaceous Biochemical Oxygen Demand (CBOD5) (80082) (May-Oct)	Sample Measurement	< 5	10	lbs/day	***	< 2	4	mg/L	1/week	24-Hr Composite
	Permit Requirement	62	94		***	10	15	Avg Mo Wkly Avg	1/week	24-Hr Composite
Facility Sampling Point Comments										



**COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
BUREAU OF CLEAN WATER
DISCHARGE MONITORING REPORT (DMR)**

NAME: EAST GOSHEN MUNI AUTH CHESTER CNTY
 ADDRESS: 1580 PAOLI PIKE, WEST CHESTER PA, 19380-6107
 FACILITY: RIDLEY CREEK STP
 LOCATION: 1751 TOWNE DR, WEST CHESTER PA, 19380
 STAGE: Final Effluent

PA0050504		002	
PERMIT NUMBER		OUTFALL NUMBER	
MONITORING PERIOD			
YEAR	MO	DAY	
2021	09	01	TO
YEAR	MO	DAY	
2021	09	30	

Reporting Frequency: Monthly
 DMR Effective From: 09/01/2021
 DMR Effective To: 09/30/2021
 Permit Expires: 04/30/2022
 Permit Application Due: 11/01/2021
 No Discharge:

PARAMETERS REPORTED VALUES

PARAMETER		QUANTITY OR LOADING			QUANTITY OR CONCENTRATION				SAMPLING FREQUENCY	SAMPLING TYPE
		VALUE	VALUE	UNITS	VALUE	VALUE	VALUE	UNITS		
Dissolved Oxygen (00300)	Sample Measurement	***	***	***	8.29	***	***	mg/L	1/day	Grab
	Permit Requirement	***	***		5.0 Min	***	***		1/day	Grab
pH (00400)	Sample Measurement	***	***	***	7.08	***	7.81	S.U.	1/day	Grab
	Permit Requirement	***	***		6.0 Min	***	9.0 Max		1/day	Grab
Total Suspended Solids (00530)	Sample Measurement	8	15	lbs/day	***	3.8	6.0	mg/L	1/week	24-Hr Composite
	Permit Requirement	62 Avg Mo	94 Wkly Avg		***	10.0 Avg Mo	15.0 Wkly Avg		1/week	24-Hr Composite
Ammonia-Nitrogen (00610) (May-Oct)	Sample Measurement	< .2	***	lbs/day	***	< .1	***	mg/L	1/week	24-Hr Composite
	Permit Requirement	16 Avg Mo	***		***	2.5 Avg Mo	***		1/week	24-Hr Composite
Total Phosphorus (00665)	Sample Measurement	< .2	***	lbs/day	***	< .1	***	mg/L	1/week	24-Hr Composite
	Permit Requirement	3.0 Avg Mo	***		***	.5 Avg Mo	***		1/week	24-Hr Composite
Flow (50050)	Sample Measurement	.05229	.06248	MGD	***	***	***	***	Continuous	Measured
	Permit Requirement	Monitor & Report Avg Mo	Monitor & Report Daily Max		***	***	***		Continuous	Measured
Fecal Coliform (74055)	Sample Measurement	***	***	***	***	< 1.0	1.0	CFU/100 ml	1/week	Grab
	Permit Requirement	***	***		***	200 Geo Mean	1000 IMAX		1/week	Grab
	Facility Parameter Comments	A sample taken 9/14/21 was not included as the result was >2,419. There was a new sample collector who contaminated the sample by sampling incorrectly.								
Carbonaceous Biochemical Oxygen Demand (CBOD5) (80082) (May-Oct)	Sample Measurement	< 5	10	lbs/day	***	< 2	4	mg/L	1/week	24-Hr Composite
	Permit Requirement	62 Avg Mo	94 Wkly Avg		***	10 Avg Mo	15 Wkly Avg		1/week	24-Hr Composite
Facility Sampling Point Comments										



**COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
BUREAU OF CLEAN WATER
DISCHARGE MONITORING REPORT (DMR)**

NAME: EAST GOSHEN MUNI AUTH CHESTER CNTY
 ADDRESS: 1580 PAOLI PIKE, WEST CHESTER PA, 19380-6107
 FACILITY: RIDLEY CREEK STP
 LOCATION: 1751 TOWNE DR, WEST CHESTER PA, 19380
 STAGE: Raw Sewage Influent

PA0050504	001
PERMIT NUMBER	OUTFALL NUMBER

Reporting Frequency: Monthly
 DMR Effective From: 09/01/2021
 DMR Effective To: 09/30/2021
 Permit Expires: 04/30/2022
 Permit Application Due: 11/01/2021
 No Discharge:

MONITORING PERIOD						
YEAR	MO	DAY		YEAR	MO	DAY
FROM 2021	09	01	TO	2021	09	30

PARAMETERS REPORTED VALUES

PARAMETER		QUANTITY OR LOADING			QUANTITY OR CONCENTRATION				SAMPLING FREQUENCY	SAMPLING TYPE
		VALUE	VALUE	UNITS	VALUE	VALUE	VALUE	UNITS		
Biochemical Oxygen Demand (BOD5) (00310)	Sample Measurement	507	***	lbs/day	***	230	***	mg/L	1/week	24-Hr Composite
	Permit Requirement	Monitor & Report Avg Mo	***		***	Monitor & Report Avg Mo	***		1/week	24-Hr Composite
Total Suspended Solids (00530)	Sample Measurement	673	***	lbs/day	***	308	***	mg/L	1/week	24-Hr Composite
	Permit Requirement	Monitor & Report Avg Mo	***		***	Monitor & Report Avg Mo	***		1/week	24-Hr Composite
Facility Sampling Point Comments										



COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
BUREAU OF CLEAN WATER
DISCHARGE MONITORING REPORT (DMR)

ATTACHMENT DETAILS

File Name	Attachment Type	Uploaded Time	Attachment Comments
2021 SEP DMR 001.xlsx	Daily Effluent Monitoring Form	2021-10-27T17:22:06-04:00	
SEP 2021 Influent Process Control.xls	Influent and Process Control Form	2021-10-27T17:23:39-04:00	
2021 SEP SSR.xls	Sewage Sludge / Biosolids Production and Disposal Form	2021-10-27T17:23:05-04:00	
2021 SEP DMR 002.xlsx	Daily Effluent Monitoring Form	2021-10-27T17:22:37-04:00	

PERMIT VIOLATIONS

Non-Compliance ID	Event Start Date	Event End Date	Parameter	Limit Type	Reported Value	Permit Limit	Unit	Sampling Point	Cause Of Non-Compliance	Corrective Action	Comments
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UNAUTHORIZED DISCHARGES

Non-Compliance ID	Event Start Date	Event End Date	Date and Time Discovered	Substance Discharged	Event Location	Volume (gal)	Duration (hrs)	Receiving Waters	Impact On Waters	Cause Of Discharge	Date and Time DEP Notified Orally	Comments
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OTHER PERMIT VIOLATIONS

Non-Compliance ID	Non-Compliance Type	Sampling Point	Parameter	Reported Value	Permit Limit	Comments
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COMMENT DETAILS

Comments	Operator Name	Operator Certification Number	Operator Contact Number
	Scott A. Towler	T0390	(345)-325-3282

SUBMISSION INFORMATION

SUBMITTED BY GREENPORT USER	*Pursuant to the Pennsylvania Electronic Transactions Act - Act 69, effective January 15, 2002, you are about to engage in an electronic transaction with the Commonwealth of Pennsylvania. You are submitting official information. You certify under penalty of law that this document and all attachments were prepared under your direction or supervision in accordance with a system designed to assure that qualified personnel gather and evaluate the information submitted. Based on your inquiry of the person or persons who manage the system or those persons directly responsible for gathering the information, the information submitted is, to the best of your knowledge and belief, true, accurate and complete. You are aware that any false statement may be subject to substantial civil and criminal penalties, including 18 P.S. section 4904 (relating to unsworn falsification to authorities).	Scott Towler	TELEPHONE		DATE		
			(345)	325-3282	2021	10	27
towlersc		SUBMITTED BY FULL NAME	AREA CODE	NUMBER	YEAR	MO	DAY

DRAFT
EAST GOSHEN TOWNSHIP MUNICIPAL AUTHORITY
MEETING MINUTES
October 11, 2021

The East Goshen Township Municipal Authority held their regular meeting on Monday, October 11, 2021 at 7:00 pm. at the Township Building.

Members in attendance were: Dana Pizarro, Chairman; Jack Yahraes Vice Chairman; Phil Mayer, and Walter Wujcik.

Also in attendance were: Mark Miller (Director of Public Works), David Ware (Financial Director), Mike Ellis (Pennoni), Robert Jefferson (Gawthrop), Michael Lynch (Township Supervisor), and Scott Towler (Big Fish).

COMMON ACRONYMS:

<i>BFES – Big Fish Environmental Services</i>	<i>MA- Municipal Authority</i>
<i>BOS – Board of Supervisors</i>	<i>NPDES – National Pollutant Discharge Elimination System</i>
<i>CB – Conservancy Board</i>	<i>PC – Planning Commission</i>
<i>DEP – Department of Environmental Protection</i>	<i>PM – Prevention Maintenance</i>
<i>EPA – Environmental protection Agency</i>	<i>PR – Park & Recreation Board</i>
<i>HC – Historical Commission</i>	<i>RCSTP – Ridley Creek Sewer Treatment Plant</i>
<i>I&I – Inflow & Infiltration</i>	<i>SBR – Sequencing Batch Reactor</i>
<i>LCSTP – Lockwood Chase Sewer Treatment Plant</i>	<i>SSO – Sanitary System Overflow</i>
	<i>WAS – Waste Activated Sludge</i>

Call to Order & Pledge of Allegiance

Dana called the meeting to order at 7:00 pm and led those present in the Pledge of Allegiance. He asked for a moment of silence for our military around the world, police, and First Responders. Dana asked if anyone would be recording the meeting. There was no response.

Chairman’s Report

Phil reported that he attended the West Goshen meeting. They have 360 homes in the township that are not connected to public sewer. They are moving their banking from Fulton to TD because of fees. They are considering sharing the banking fees with other users of their system. They started up and are testing the Comag. Their pH is high for now. They had several overflows during the storms. The biggest was at the Westtown Way Pump Station.

Sewer Reports

1. Director of Public Works, Mark Miller’s report for September 2021

Monthly Flows: The average daily flow to West Goshen was 700,530 gallons per day.

Meters: The meters were read on a daily basis. We have a signal issue with the Hibberd Lane meter. John Laidley has been working with the meter representative to correct the problem

C.C. Collection – We have been checking the pump stations on a daily basis with no real problems to report. We televised and cleaned Christine Lane as part of our routine maintenance. We were notified of a lateral blockage at 309 Reservoir Road. We made several attempts to clear it with a plunger but ended up using the Jetter and various cameras to get it

1 cleared. We found a lot of decorative stone in the lateral. We also mowed the sewer right of
2 ways and inspected manholes while clearing the right of ways.

3 **R.C. Collection** – The pump station was visited on a daily basis. The mag meter was taken out
4 by the flood at the Hershey Mill Station. John Laidly has ordered a new flow meter and will
5 install it once it is delivered. We mowed the sewer right of ways and inspected the manholes
6 along the creek.

7 **Ridley Creek Plant** – Routine maintenance was performed with no problems this month.

8 **Alarms:** We responded to 18 alarms in September.

9 **PA One Calls:** We responded to over 56 PA One Calls for the month of September.

10 **Rainfall:** 10.62 inches of rain for the month of September.

11 **Lateral Repairs or Caps:** We repaired 2 laterals and inspected them.

12

13 **2. Pennoni Engineer's Report for September dated October 7, 2021**

14 **Ridley Creek Sewage Treatment Plant (RCSTP)**

15 • Caustic Soda Conversion – We attended a meeting at the RCSTP on September 14 with the
16 operator and controls contractor to review the plans. We revised the plans thereafter to address
17 comments, specifically adding a 5th chemical feed pump that will feed caustic soda into the WAS
18 piping en route to the sludge holding tanks, updating controls logic, and specifying diaphragm instead
19 of peristaltic pumps. We have obtained three quotes for tanks and are continuing to coordinate with
20 vendors to obtain quotes for the chemical feed pumps. The equipment costs are generally coming in
21 on budget so far. Updated plans are expected to be submitted to the Township for review the week of
22 October 11 and for use by the controls contractor and electrician to provide pricing for their aspects
23 of construction. We are planning to present the equipment quotes to the MA at the November
24 meeting for purchase authorization.

25 • UV Disinfection System – this is discussed later on the agenda.

26 • We coordinated with the operator to perform sampling for the NPDES Permit Renewal
27 application. The application is prepared with the exception of sampling results. It will be submitted
28 before the November 1 deadline.

29 **Ridley Creek Collection System Permanent Meters**

30 • No activity since our last report.

31 **Westtown Way Pump Station**

32 • We performed a very cursory evaluation of bids and bidders, evaluated potential costs for
33 EGMA budgeting, and communicated with HRG for status updates on the award process.

34

35 **Sanitary Sewer Pipe Rehab**

36 • Supplee Valley – No activity since our last report.

- 1 • Hershey’s Mill Estates –
- 2 1. We have prepared the PADEP General Permit GP-11 application for waterway impacts, and we
- 3 expect to submit to PADEP the week of October 11. This permitting typically takes 90-120 days
- 4 for review.
- 5 2. We are coordinating scheduling with Mark Miller for the subsurface groundwater and rock test
- 6 pits. Our geotechnical engineers will be on-site to observe and to perform limited hand augers as
- 7 well.
- 8 3. Lastly, we are preparing an updated opinion of probable construction cost.

9

10 **I&I Program**

- 11 • No activity since our last report.

12

13 **New Connections**

- 14 • We performed an updated study of the costs and feasibility for public sewer extension to several
- 15 unsewered neighborhoods to estimate the costs of extension vs. on-site system replacement. A
- 16 letter report was submitted. There are 324 homes with on-site systems in EG. The average cost
- 17 for connection to public sewer is \$60,000.00.
- 18 • 1344 Morstein Road – We performed an initial evaluation of the feasibility of connecting to
- 19 public sewer per an inquiry by the property owner.

20

21 **Industrial Pretreatment Ordinance**

- 22 • No activity since our last report. As discussed at the May MA meeting, a headworks study with sampling
- 23 at the RCSTP needs to be conducted to set contaminant limits. There will not be a notable cost savings to
- 24 perform the sampling as part of the ongoing NPDES Permit Renewal sampling since the sampling will be
- 25 significantly different. Consideration should be given to budgeting for the headworks study and sampling
- 26 in 2022.

27

28

29 **3. Big Fish Environmental Services** –

30 The Ridley Creek sewage treatment plant outfall 001 achieved compliance with the permit discharge

31 limitations for the month of August 2021. All supplemental reports were submitted with the DMR.

32 Discharge to the Applebrook irrigation lagoon remained in service. Chemical usage utilized for pH

33 and total alkalinity remained consistent with previous months. Aluminium sulfate solution volumes

34 slightly increased during September as compared to August to achieve phosphorus removal. No

35 significant mechanical or operational issues were observed during operation of sludge dewatering

36 equipment or SBR treatment process. There were no odor complaints during the month.

37 The RCSTP stayed in compliance during the Ida storm. Scott is preparing the data for Pennoni. They

38 switched labs to Suburban Testing.

39

40

1 **Approval of Minutes**

2 Jack moved to approve the September 13, 2021 minutes as amended. Phil seconded the motion. The
3 motion passed unanimously.

4
5 **Approval of Invoices**

6 Phil moved to approve payment of the 5 Pennoni invoices totaling \$11,432.86. Walter
7 seconded the motion. The motion passed unanimously.

8
9 **Liaison Reports**

10 **1. Conservancy Board** – Walter reported that three trees have been replaced in Clymer’s Wood.
11 They will select a day to do the mulching. He spoke about the Toddlers Trick or Treat event
12 scheduled for October 29. Jason would like to have one or two members of each ABC attend in
13 costume to greet the families and explain what their ABC does for EG.

14 **2. Board of Supervisors** – Mike Lynch mentioned that they are considering setting up a new
15 infrastructure account. They did not approve the PPA through the COG regarding municipal energy
16 because it required a 15 year commitment. The Federal stimulus money will go toward MA
17 upgrades. They reviewed 2 ordinance updates. They approved hiring an additional Public Works
18 Department employee.

19
20 **Financial Reports**

21 **1. September Financial Report** - Dave Ware reviewed the following report:

22 In September, the Municipal Authority recorded \$24,148 in revenues (transfers from Sewer
23 Operating and Sewer Capital Reserve) and \$21,391 in expenses (primarily for HM Estates sewer
24 engineering/design/permitting), for a positive variance of \$2,758. As of September 30, 2021, the
25 fund balance was \$25,336. Dave explained that the rate increase in July was for the budget year
26 2021. Mike Lynch spoke about raising rates vs getting bonds. The Capital Reserve Fund and
27 infrastructure was discussed. The older asbestos cement pipes are being gradually replaced.

28 **2. Westtown Way Pump Station** – Dave reviewed his report dated 10/11/21. He will present it to the
29 BOS. HRG will supply more detail. There is \$2,134,593 remaining to be paid for this project.

30
31 **Old Business**

32 **1. UV Update** – Mike Ellis reported that they met with the Glasco UV system rep and received a
33 quote and product information for their recommended vertical replacement system. We also
34 contacted a Glasco UV reference, Les Harvey, the operator of the Humbolt Industrial Park WWTP in
35 Hazelton, PA, who provided positive first-hand operating, cleaning, and maintenance experience
36 information about the existing Glasco vertical UV system. As requested by the MA, we also initiated
37 research of other product alternatives for due diligence, and we have been in contact with Enaqua as
38 well as the Trojan system vendor, Kappe. A site visit with Public Works, the operator, and Kappe is
39 scheduled for October 13 to evaluate the feasibility of Trojan as a replacement UV system.

40 Coordination with Enaqua is ongoing. Mike explained the vertical system.

41 **2. Hershey Mill Trunk Line** – The cost estimate for this project was originally about \$900,000. It
42 has increased to \$1,456,000. Dave reviewed the different costs. Mike Ellis explained that they took
43 the average cost and added 15% contingency. This is a more complicated job. Mike Lynch asked
44 Mark Miller for input. Mark explained where the shale is located. In 2011 on the Lochwood project,
45 they did rock borings. He compared rocks and elevation at Lochwood vs HM. They are using iron
46 piping at HM. There is one way in and out but depending on circumstances they could have a second
47 way through the HM Dam. Mike Ellis feels the labor will be the bigger cost.

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Goals

Dana reviewed the goals.

New Business

1. Magmeter at Hershey Mill - The magmeter at Hershey Mill Pump Station was flooded during the Ida storm. It will be \$5,000.00 for a new one.

Capacity Request

1. 1344 Morstein Road – Mark explained the request from Kyong-aie Thomas at 1344 Morstein Road. She has a verbal easement with her neighbor. When Mark receives the official easement, he will send it to Robert for review.

Any Other Matter - None

Correspondence- None

Public Comment - None

Adjournment

There being no further business Phil moved to adjourn the meeting. Walter seconded the motion. The motion passed unanimously. The meeting was adjourned at 8:40 pm. The next regular meeting will be held on Monday, November 8, 2021 at 7:00 pm.

Respectfully submitted,

Ruth Kiefer, Recording Secretary



INVOICE

Remit Payment To:
Pennoni Associates Inc.
P.O. Box 827328
Philadelphia, PA 19182-7328

Mark Miller
East Goshen Municipal Authority
1580 Paoli Pike
West Chester, PA 19380-6199

Invoice No : 1091962
Invoice Date : 10/28/2021
Project : EGMAU21001
Project Name : 2021 General
Services

For Services Rendered Through 10/17/2021

October Engineer's Report; preparation for and attendance at October MA meeting including review of RCSTP operator's report. Reviewed bid results for Westtown Way Pump Station; and coordinated with HRG and East Goshen on award recommendations, bidder reference checks, bid discrepancies, and budgeting including construction and soft costs. Continued coordination with vendors, operator, and M. Miller for RCSTP UV disinfection system replacement product evaluations including review of Glasco's quote, Glasco UV reference check, field meeting with Kappe (Trojan system rep), field measurements and existing conditions sketch of UV channel as requested by vendors, discussions with a third vendor (Enaqua), and initial evaluation of hydraulic feasibility for use of Glasco's vertical UV system. Continued study and cost estimates for public sewer extensions to unsewered neighborhoods including concept layout of gravity vs. low pressure sewer alternatives for neighborhoods not included in the 2006 study; researched onlot/septic system replacement costs; and prepared draft report.

Billing Limits	Current	Prior	To-Date
Total Billings	10,456.00	19,827.25	30,283.25
Limit			40,000.00

Labor

	Hours	Rate	Amount
Authority Engineer	21.75	132.00	2,871.00
Senior Professional	6.75	125.00	843.75
Project Professional	1.75	111.00	194.25
Associate Professional	5.00	97.00	485.00
Graduate Professional	66.75	88.00	5,874.00
Sr. Engineering Technician	2.00	94.00	188.00
Totals	104.00		10,456.00
Total Labor			10,456.00
Total this Invoice			<u>\$10,456.00</u>

INVOICES DUE ON RECEIPT. Invoices outstanding over 30 days will have a Service Charge of 1 1/2% per month.

West Goshen Sewer System Consultation
EGMAU21001 Invoice Summary
Invoice Date 10/28/2021

Project:	EGMAU21001		
Pennoni Job No.:	2021 General Services		
Invoice No:	1091962		
Invoice Period:	9/20/2021	to	10/17/2021
Initial Authorization:	\$ 30,000.00	Date:	10/28/2021
Contract Amount:	\$ 40,000.00		
Previously Invoiced:	\$ 19,827.25		
Current Invoice:	\$ 10,456.00		
Invoiced to Date (\$):	\$ 30,283.25		
Invoiced to Date (%):			
Remaining Budget (\$):	\$ 9,716.75		
Remaining Budget (%):	24%		

Budget by Phase:

Phase Name:	2021 General Services		
Phase Budget:	\$430,000.00		
Previously Invoiced:	\$ 19,827.25		
Current Invoice:	\$ 10,456.00		
Invoiced to Date (\$):	\$ 30,283.25		
Invoiced to Date (%):	9,716.75		
Remaining Budget (\$):	\$		
Remaining Budget (%):	24%		

Comments: October Engineer's Report; preparation for and attendance at October MA meeting including review of RCSTP operator's report. Reviewed bid results for Westtown Way Pump Station; and coordinated with HRG and East Goshen on award recommendations, bidder reference checks, bid discrepancies, and budgeting including construction and soft costs. Continued coordination with vendors, operator, and M. Miller for RCSTP UV disinfection system replacement product evaluations including review of Glasco's quote, Glasco UV reference check, field meeting with Kappe (Trojan system rep), field measurements and existing conditions sketch of UV channel as requested by vendors, discussions with a third vendor (Enaqua), and initial evaluation of hydraulic feasibility for use of Glasco's vertical UV system. Continued study and cost estimates for public sewer extensions to unsewered neighborhoods including concept layout of gravity vs. low pressure sewer alternatives for neighborhoods not included in the 2006 study; researched onlot/septic system replacement costs; and prepared draft report.



INVOICE

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Pennoni Associates Inc.
P.O. Box 827328
Philadelphia, PA 19182-7328

Mark Miller
East Goshen Municipal Authority
1580 Paoli Pike
West Chester, PA 19380-6199

Invoice No : 1091966
Invoice Date : 10/28/2021
Project : EGMAU21004
Project Name : HM Estates Sewer
Design & Permitting

For Services Rendered Through 10/17/2021

Phase 04: Prepared construction cost estimate.

Phase 05: Continued preparation of PADEP GP-11 permit application.

Phase Code / Name	Contract Amount	Previously Billed	% Complete	Complete To Date	Amount This Invoice
01 -- Wetland & Watercourse Investigation	\$6,750.00	\$6,750.00	100.00%	\$6,750.00	\$0.00
02 -- Phase I Bog Turtle Habitat Assessment	\$6,750.00	\$6,750.00	100.00%	\$6,750.00	\$0.00
03 -- Survey	\$17,200.00	\$17,200.00	100.00%	\$17,200.00	\$0.00
04 -- Design	\$26,100.00	\$23,751.00	93.25%	\$24,338.58	\$587.58
05 -- Permitting	\$8,000.00	\$3,200.00	47.99%	\$3,839.59	\$639.59
07 -- Geotechnical	NTE \$10,000.00	\$1,400.25	14.00%	\$1,400.25	\$0.00
Total :	\$74,800.00	\$66,571.75		\$67,798.92	\$1,227.17

Amount Due This Invoice

\$1,227.17

West Goshen HM Estates Sewer Design Permitting
EGMAU21004 Invoice Summary
Invoice Date 10/28/2021

Project:	EGMAU21004		
Pennoni Job No.:	HM Estates Sewer Design & Permitting		
Invoice No:	1091966		
Invoice Period:	9/20/2021	to	10/17/2021
Initial Authorization:	\$ 64,800.00	Date:	10/28/2021
Contract Amount:	\$ 74,800.00		
Previously Invoiced:	\$ 66,571.75		
Current Invoice:	\$ 1,227.17		
Invoiced to Date (\$):	\$ 67,798.92		
Invoiced to Date (%):	91%		
Remaining Budget (\$):	\$ 7,001.08		
Remaining Budget (%):	9%		

Budget by Phase:

Phase Name:	HM Estates Sewer Design & Permitting		
Phase Budget:	\$ 74,800.00		
Previously Invoiced:	\$ 66,571.75		
Current Invoice:	\$ 1,227.17		
Invoiced to Date (\$):	\$ 67,798.92		
Invoiced to Date (%):	91%		
Remaining Budget (\$):	\$ 7,001.08		
Remaining Budget (%):	9%		

Comments: Phase 04: Prepared construction cost estimate.
Phase 05: Continued preparation of PADEP GP-11 permit application.



INVOICE

Remit Payment To:
Pennoni Associates Inc.
P.O. Box 827328
Philadelphia, PA 19182-7328

Mark Miller
East Goshen Municipal Authority
1580 Paoli Pike
West Chester, PA 19380-6199

Invoice No : 1091967
Invoice Date : 10/28/2021
Project : EGMAU21005
Project Name : RCSTP NPDES
Permit Renewal

For Services Rendered Through 10/17/2021

Continued preparation of permit application forms, reviewed sampling results, and analyzed DMR data.

Billing Limits	Current	Prior	To-Date
Total Billings	1,656.25	2,036.75	3,693.00
Limit			7,000.00
Remaining			3,307.00

Labor

	Hours	Rate	Amount
Project Professional	2.25	111.00	249.75
Associate Professional	14.50	97.00	1,406.50
Totals	16.75		1,656.25
Total Labor			1,656.25
Total this Invoice			<u>\$1,656.25</u>

INVOICES DUE ON RECEIPT. Invoices outstanding over 30 days will have a Service Charge of 1 1/2% per month.

RCSTP NPDES Permit Renewal
EGMAU21005 Invoice Summary
Invoice Date 10/28/2021

Project: EGMAU21005
Pennoni Job No.: RCTP NPDES Permit Renewal
Invoice No: 1091967
Invoice Period: 9/20/2021 to 10/17/2021
Initial Authorization: \$ 7,000.00 **Date:** 10/28/2021
Contract Amount: \$ 7,000.00
Previously Invoiced: \$ 2,036.75
Current Invoice: \$ 1,656.25
Invoiced to Date (\$): \$ 3,693.00
Invoiced to Date (%): 53%
Remaining Budget (\$): \$ 3,307.00
Remaining Budget (%): 47%

Budget by Phase:

Phase Name: RCTP NPDES Permit Renewal
Phase Budget: \$ 7,000.00
Previously Invoiced: \$ 2,036.75
Current Invoice: \$ 1,656.25
Invoiced to Date (\$): \$ 3,693.00
Invoiced to Date (%): 53%
Remaining Budget (\$): \$ 3,307.00
Remaining Budget (%): 47%

Comments: Continued preparation of permit applications forms, reviewed sampling results and analyzed DMR data.



INVOICE

Tel: 800.971.4242
beyondcomponents.com

SOLD TO: EG1000

SHIP TO:

ORIGINAL

PAID
10/21

EAST GOSHEN TOWNSHIP
1580 PAOLI PIKE
WEST CHESTER, PA 19380

SAME **APPROVED BY:** [Signature]
DATE PAID: _____
CHECK #: _____
CHARGED TO: 07429 1505
UV System

INVOICE DATE
09/29/2021

Attn: 17785

INVOICE NO
351097-4

PURCHASE ORDER	SHIP VIA	PAYMENT TERMS	CSR #
17785	UPS Ground	Net 30 Days	203

PAGE
1

Packing Slip# 234915

QTY ORDERED	QTY SHIPPED	MANUFACTURE DESCRIPTION	PRICE	UNIT / EXTENDED
160	160	Harting 09-15-000-6202 Han D F Crimp Contact Ag AWG 18	\$0.97000/EACH	155.20
160	160	Harting 09-15-000-6102 Han D M Crimp Contact Ag AWG 18	\$0.78000/EACH	124.80
10	10	Harting 09-16-042-3001 Han DD 42 Pos. M Insert Crimp	\$20.69000/EACH	206.90
10	10	Harting 09 16 042 3101 Han 42DD-BU-C	\$25.70000/EACH	257.00
50	50	Wirexpress 6G-1801-03-RHS	\$0.88000/ft	44.00
50	50	Wirexpress 6G-1801-06-ROHS AWG18 TFFN RED	\$0.88000/ft	44.00
		AWG18 TFFN BLUE		

Remit To: Beyond Components Inc
5 CARL THOMPSON ROAD
WESTFORD, MA 01886
Phone: 610-518-9511 Fax: 610-518-9520

SALE AMOUNT:	831.90
DELIVERY:	13.44
SALES TAX:	0.00

"We are the KING of Terminal Blocks
selling 32 brands!"

TOTAL: \$845.34

NOTICE: Any claim of shortage or damaged goods must be made within 10 days of shipment. Beyond Components™ will not accept responsibility after this period.

Connection
 GOVCONNECTION, INC.
 7503 STANDISH PLACE
 ROCKVILLE MD 20855

66876

REMIT TO ADDRESS
 GOVCONNECTION, INC.
 DBA CONNECTION
 PO BOX 536477
 PITTSBURGH PA 15253-5906

PLEASE ENCLOSE ATTACHED REMITTANCE
 RECEIPT WITH YOUR PAYMENT

Federal ID No.	Invoice No.	Invoice Date
52-1837891	71730296	08/19/2021

Company retains a purchase money security interest in
 Equipment until payment is made in full.

Shipped To:

EAST GOSHEN TOWNSHIP
 1580 PAOLI PIKE
 WEST CHESTER PA 19380



1oz - #10 - J300306 - 1257 - 2106
 EAST GOSHEN TOWNSHIP
 1580 PAOLI PIKE
 WEST CHESTER PA 19380-6107



PAID
 10/21

CORP. SALES (800)800-0019

CREDIT DEPT (800)294-0268

CUSTOMER SERV (800)800-0019

Date of Order	Order No.	Customer Purchase Order No.	Account No.	Terms	Date Shipped	Shipped Via	
08/09/2021	60922803	EGT 008052021.1	21292230	Net 30	08/19/2021	UPS - GROUND COMMERCIAL	
Quantity		Item No.	Description	Unit Price	Extension		
Ordered	Back Ordered					Shipped	
10		41151952	EndPt SecEnt Lic/Supp 1-99D MFG# SES-SUB-1-99	13.1500	131.50		

***** PLEASE NOTE EFT INSTRUCTIONS *****

For electronic funds transfer, please remit to Citizens Bank:
 ACH Payments: ABA # 2110-70175, Account # 1310873272
 WIRE Payments: ABA #0115-00120, Account # 1310873272
 Please include invoice number(s) in the transmitted information.

PLEASE SEND remit information to REMIT@CONNECTION.COM

"We provide more timely and accurate information to the business community by sharing our accounts receivable information with credit bureaus"

APPROVED BY: _____
 DATE PAID: _____
 CHECK #: _____
 CHARGED TO: 07429.1505

Backordered items will be shipped and
 Invoiced to you as soon as they are available.

Merchandise	Sales Tax	Shipping/Packaging
131.50		

Page # 1

Invoice Total
131.50

HICKS, BIANCA

Ordered By Susan D'amore

Order No.
60922803

Company	Account No.	Invoice No.	Invoice Total
00005	21292230	71730296	131.50

GOVCONNECTION, INC.
 DBA CONNECTION
 PO BOX 536477
 PITTSBURGH PA 15253-5906

PLEASE ENCLOSE THIS REMITTANCE
 RECEIPT WITH YOUR PAYMENT

00005 21292230 717302960000013150

Memo

To: Municipal Authority
From: Dave Ware
Re: MA September 2021 Financial Report
Date: November 4, 2021

In October, 2021, the Municipal Authority recorded \$5,245 in revenues (transfer from Sewer Operating) and \$11,911 in expenses (General Services, and UV System Connections), for a negative variance of (\$6,666). As of October 31, 2021, the fund balance was \$18,670.

A complete list of 2021 YTD MA revenues and expenses is attached.

I will see you all at the meeting on November 8, 2021 at 7PM.

EAST GOSHEN TOWNSHIP
Other Funds
October 2021
Municipal Authority

Account Title	Acct #	Annual Budget	Y-T-D Budget	Y-T-D Actual	Y-T-D Variance	M-T-D Budget	M-T-D Actual	M-T-D Variance
REVENUE								
INTEREST EARNINGS	07341 1000			2.53	2.53		0.23	0.23
DCED GRANT	07354 0400	152,980	152,980		(152,980.00)			
C.C. TAPPING FEES	07364 1100			2,060.00	2,060.00			
R.C. TAPPING FEES	07364 1110			11,508.00	11,508.00			
CONNECTION FEES - SEWER	07364 1130			1,127.52	1,127.52			
MISCELLANEOUS REVENUE	07380 1000	565	565	2,664.48	2,099.48			
TRANSFER FROM SEWER OPERATING	07392 0500	279,915	279,915	71,624.91	(208,290.10)		5,244.75	5,244.75
TRANSFER FROM SEWER CAP RESERVE	07392 0900	122,000	85,189	178,365.32	93,176.22	25,578		(25,577.99)
TOTAL REVENUE		555,460	518,649	267,352.76	(251,296.35)	25,578	5,244.98	(20,333.01)
EXPENSES								
ADMINISTRATIVE WAGES	07424 1400	30,000	22,500	23,135.82	(635.82)			
MISCELLANEOUS EXPENSE	07424 3000			1,518.25	(1,518.25)			
MUNIC. AUTH. -AUDITING	07424 3110	9,440	9,440	10,000.00	(560.00)			
ENGINEERING SERVICES	07424 3130	60,900	51,626	38,130.06	13,495.67	4,437	5,244.75	(808.04)
LEGAL SERVICES	07424 3140	8,120	5,747	7,913.82	(2,166.92)	944		943.52
CAP. REPLACEMENT R.C.	07424 7490			(10,984.77)	10,984.77			
RELINING	07426 3001	130,000	130,000		129,999.99			
BARKWAY PUMP STATION CAPITAL	07429 1501			5,117.00	(5,117.00)			
ASHBRIDGE PUMP STATION CAPITAL	07429 1502			30,324.00	(30,324.00)			
HERSHEYS MILL PUMP STATION CAPITAL	07429 1503			75,352.79	(75,352.79)		1,679.61	(1,679.61)
HUNT CO PUMP STATION CAPITAL	07429 1504	87,000	87,000	8,277.00	78,723.00			
RCSTP CAPITAL	07429 1505	230,000	119,098	65,925.98	53,172.41	34,556	4,951.84	29,604.22
Bank Fees	07491 5001			345.00	(345.00)		34.50	(34.50)
TOTAL EXPENSES		555,460	425,411	255,054.95	170,356.06	39,936	11,910.70	28,025.59
NET RESULT FROM OPERATIONS			93,238	12,297.81	(80,940.29)	(14,358)	(6,665.72)	7,692.58

MUNICIPAL AUTHORITY October 31, 2021 YTD Financials

Account #	Description	Per	Src	Trx#	Debits	Credits	Balance	Date	Check#	Name	Description	Description 2
07341-1000	BEGINNING BALANCE						-					
07341-1000	INTEREST EARNINGS	2101	JE	76976	34.50	-	-	1/5/2021	BANK FEES	REIMBURSE S/R FOR DEC. 2020	BANK FEES	
07341-1000	INTEREST EARNINGS	2102	JE	77346	-	34.50	-	2/8/2021	REVERSE	REVERSE & CORRECT TRX. 76976	BANK FEE CHARGES	
07341-1000	INTEREST EARNINGS	2102	JE	77356	-	0.49	-	2/8/2021	INTEREST	INTEREST EARNED JANUARY 2021	7100.1035	
07341-1000	INTEREST EARNINGS	2102	JE	77638	-	0.44	-	2/28/2021	INTEREST	INTEREST EARNED FEBRUARY 2021	7100.1035	
07341-1000	INTEREST EARNINGS	2103	JE	78076	-	0.47	-	3/31/2021	INTEREST	INTEREST EARNED MARCH 2021	7100.103	
07341-1000	INTEREST EARNINGS	2104	JE	78492	-	0.16	-	5/3/2021	INTEREST	INTEREST EARNED APRIL 2021	7100.1035	
07341-1000	INTEREST EARNINGS	2105	JE	78908	-	0.19	-	5/31/2021	INTEREST	INTEREST EARNED MAY 2021	7100.1035	
07341-1000	INTEREST EARNINGS	2106	JE	79382	-	0.10	-	6/30/2021	INTEREST	INTEREST EARNED JUNE 2021	7100.1035	
07341-1000	INTEREST EARNINGS	2107	JE	79787	-	0.11	-	7/31/2021	INTEREST	INTEREST EARNED JULY 2021	7100.1035	
07341-1000	INTEREST EARNINGS	2108	JE	80222	-	0.13	-	8/31/2021	INTEREST	INTEREST EARNED AUGUST 2021	7100.1035	
07341-1000	INTEREST EARNINGS	2109	JE	80628	-	0.21	-	9/30/2021	INTEREST	INTEREST EARNED SEPT. 2021	7100.1035	
07341-1000	INTEREST EARNINGS	2110	JE	81001	-	0.23	-	10/31/2021	INTEREST	INTEREST EARNED OCTOBER 2021	7100.1035	
07364-1100	BEGINNING BALANCE						-					
07364-1100	C.C. TAPPING FEES	2105	RE	78657	-	2,000.00	-	5/12/2021	78657 1		TAP IN FEE 1331 E STRASBURG RD	C.C. TAPPING FEES
07364-1100	C.C. TAPPING FEES	2105	RE	78659	-	60.00	-	5/12/2021	78659 1		SEWER INSP.1331 E STRASBURG RD	C.C. TAPPING FEES
07364-1110	BEGINNING BALANCE						-					
07364-1110	R.C.TAPPING FEES	2106	RE	79365	-	2,000.00	-	6/30/2021	79365 1		TAP IN FEE FOR 1471 BOOT ROAD	R.C.TAPPING FEES
07364-1110	R.C.TAPPING FEES	2106	RE	79366	-	60.00	-	6/30/2021	79366 1		SEWER INSPECT FOR 1471 BOOT RD	R.C.TAPPING FEES
07364-1110	R.C.TAPPING FEES	2108	RE	79949	-	2,000.00	-	8/13/2021	79949 1		TAP IN FEE - 1725 TOWNE DR	R.C.TAPPING FEES
07364-1110	R.C.TAPPING FEES	2108	RE	79950	-	150.00	-	8/13/2021	79950 1		SEWER INSPECTION-1725 TOWNE DR	R.C.TAPPING FEES
07364-1110	R.C.TAPPING FEES	2108	RE	80074	-	7,148.00	-	8/24/2021	80074 1		932 N CHESTER RD - TAP IN FEE	R.C.TAPPING FEES
07364-1110	R.C.TAPPING FEES	2108	RE	80075	-	150.00	-	8/24/2021	80075 1		932 N CHESTER RD SEWER INSPECT	R.C.TAPPING FEES
07364-1130	BEGINNING BALANCE						-					
07364-1130	CONNECTION FEES - SEWER	2101	CR	77256	-	423.00	-	1/28/2021	2694	STOFFLET, MICHAEL		
07364-1130	CONNECTION FEES - SEWER	2101	JE	77257	141.12	-	-	1/28/2021	PINE ROCK	ANNUAL PINE ROCK INSTALLMENT	INTEREST PORTION - STOFFLET	
07364-1130	CONNECTION FEES - SEWER	2102	CR	77466	-	423.00	-	2/17/2021	745	JACOBS, ROBERT & CHERYL		
07364-1130	CONNECTION FEES - SEWER	2102	JE	77467	141.12	-	-	2/17/2021	PINE ROCK	ANNUAL PINE ROCK INSTALLMENT	INTEREST PORTION - JACOBS	
07364-1130	CONNECTION FEES - SEWER	2103	CR	77801	-	423.00	-	3/11/2021	4276	GEORGE SMITH & CHRISTINA CONLE		
07364-1130	CONNECTION FEES - SEWER	2103	CR	78004	-	423.00	-	3/26/2021	8842992	PAPPANO, JOSEPH & PATRICIA		
07364-1130	CONNECTION FEES - SEWER	2103	JE	77802	141.12	-	-	3/11/2021	PINEROCK	INTEREST PORTION - CONLEY	SMITH	
07364-1130	CONNECTION FEES - SEWER	2103	JE	78005	141.12	-	-	3/26/2021	PINE ROCK	ANNUAL PINE ROCK INSTALLMENT	INTEREST PORTION - PAPPANO	
07380-1000	BEGINNING BALANCE						-					
07380-1000	MISCELLANEOUS REVENUE	2101	JE	77257	-	141.12	-	1/28/2021	PINE ROCK	ANNUAL PINE ROCK INSTALLMENT	INTEREST PORTION - STOFFLET	
07380-1000	MISCELLANEOUS REVENUE	2102	JE	77467	-	141.12	-	2/17/2021	PINE ROCK	ANNUAL PINE ROCK INSTALLMENT	INTEREST PORTION - JACOBS	
07380-1000	MISCELLANEOUS REVENUE	2103	JE	77802	-	141.12	-	3/11/2021	PINEROCK	INTEREST PORTION - CONLEY	SMITH	
07380-1000	MISCELLANEOUS REVENUE	2103	JE	78005	-	141.12	-	3/26/2021	PINE ROCK	ANNUAL PINE ROCK INSTALLMENT	INTEREST PORTION - PAPPANO	
07380-1000	MISCELLANEOUS REVENUE	2108	RE	79894	-	2,100.00	-	8/10/2021	79894 1		REFUND- COLONIAL ELEC. 10/2020	MISCELLANEOUS REVENUE
07392-0500	BEGINNING BALANCE						-					
07392-0500	TRANSFER FROM SEWER OPERATING	2101	JE	77062	-	66.00	-	1/12/2021	XFER	XFER \$ FROM SEWER TO MA RE:	JANUARY EXPENSES	
07392-0500	TRANSFER FROM SEWER OPERATING	2101	JE	77072	0.01	-	-	1/13/2021	ADJUST	ADJUST TRX. 76744		
07392-0500	TRANSFER FROM SEWER OPERATING	2102	JE	77393	-	3,031.25	-	2/9/2021	XFER	XFER FUNDS TO MA FROM SEWER &	SEWER CAP. RE:FEB 2021 EXP.	
07392-0500	TRANSFER FROM SEWER OPERATING	2103	JE	77621	-	2,525.00	-	3/1/2021	XFER	XFER \$ TO MA FROM SEWER RE: MA	EXPENSES	
07392-0500	TRANSFER FROM SEWER OPERATING	2103	JE	77775	-	3,813.00	-	3/10/2021	XFER	XFER \$ TO MA FROM SEWER FUND		
07392-0500	TRANSFER FROM SEWER OPERATING	2103	JE	77959	-	5,955.00	-	3/24/2021	XFER	XFER \$ FROM 05 TO 07 MA		
07392-0500	TRANSFER FROM SEWER OPERATING	2103	JE	78050	-	7,373.83	-	3/31/2021	XFER	XFER \$ TO MA FROM 05		
07392-0500	TRANSFER FROM SEWER OPERATING	2104	JE	78253	-	13,737.91	-	4/15/2021	XFER	XFER \$ FR: SEWER OPER. TO MA		
07392-0500	TRANSFER FROM SEWER OPERATING	2105	JE	78480	-	2,158.00	-	5/3/2021	XFER	XFER \$ FROM SEWER TO MA TO	COVER EXPENSE	
07392-0500	TRANSFER FROM SEWER OPERATING	2105	JE	78625	-	3,141.25	-	5/12/2021	XFER	XFER \$ FROM SEWER & SEWER CAP.	RESERVE TO MA	
07392-0500	TRANSFER FROM SEWER OPERATING	2106	JE	79162	-	6,550.41	-	6/16/2021	XFER	XFER \$ SEWER & SEWER CAPITAL	TO MUN.AUTH.	
07392-0500	TRANSFER FROM SEWER OPERATING	2106	JE	79359	-	7,569.21	-	6/30/2021	XFER	XFER \$ FROM 05 TO 07		
07392-0500	TRANSFER FROM SEWER OPERATING	2107	JE	79501	-	5,291.06	-	7/13/2021	XFER	XFER \$ FROM SEWER & SEWER CAP.	RESERVE TO MA	
07392-0500	TRANSFER FROM SEWER OPERATING	2109	JE	80367	-	4,194.75	-	9/14/2021	XFER MA	XFER \$ FROM 09 & 05 TO 07MA	RE: EXPENSES	
07392-0500	TRANSFER FROM SEWER OPERATING	2109	JE	80494	-	973.50	-	9/22/2021	XFER	XFER \$ FROM 05 TO 07 MA TO	COVER 9/22/21 EXPENSES	
07392-0500	TRANSFER FROM SEWER OPERATING	2110	JE	80789	-	5,244.75	-	10/15/2021	XFER	XFER \$ FROM SEWER TO MA TO	COVER SEPT.MA EXPENSES	
07392-0900	BEGINNING BALANCE						-					

MUNICIPAL AUTHORITY October 31, 2021 YTD Financials

Account #	Description	Per	Src	Trx#	Debits	Credits	Balance	Date	Check#	Name	Description	Description 2
07392-0900	TRANSFER FROM SEWER CAP RESERVE	2102	JE	77393	-	12,162.92	-	2/9/2021	XFER	XFER FUNDS TO MA FROM SEWER &	SEWER CAP. RE:FEB 2021 EXP.	
07392-0900	TRANSFER FROM SEWER CAP RESERVE	2102	JE	77434	-	15,035.91	-	2/12/2021	XFER	XFER \$ FROM 09 TO 07		
07392-0900	TRANSFER FROM SEWER CAP RESERVE	2103	JE	77623	-	15,721.12	-	3/1/2021	XFER	XFER \$ FROM SEWER CAPITAL TO	MA RE: EXPENSES	
07392-0900	TRANSFER FROM SEWER CAP RESERVE	2103	JE	77777	-	10,188.22	-	3/10/2021	XFER	XFER \$ TO MA FROM SEWER CAP.	RESERVE	
07392-0900	TRANSFER FROM SEWER CAP RESERVE	2103	JE	77779	-	5,785.09	-	3/10/2021	XFER	XFER \$ TO MA FROM SEWER CAP.	RESERVE	
07392-0900	TRANSFER FROM SEWER CAP RESERVE	2103	JE	77827	382.02	-	-	3/12/2021	XFER	RETURN \$ TO 09 FROM 07 RE:	XFER ERROR 2/9/21	
07392-0900	TRANSFER FROM SEWER CAP RESERVE	2103	JE	77957	-	922.95	-	3/24/2021	XFER	XFER \$ FROM 09 TO 07 MA		
07392-0900	TRANSFER FROM SEWER CAP RESERVE	2104	JE	78255	-	33,111.72	-	4/15/2021	XFER	XFER \$ FR: SEWER CAPITAL TO MA		
07392-0900	TRANSFER FROM SEWER CAP RESERVE	2104	JE	78369	-	926.66	-	4/26/2021	XFER	XFER \$ FROM SEWER CAPITAL 09 -	MUNICIPAL AUTH. 07	
07392-0900	TRANSFER FROM SEWER CAP RESERVE	2105	JE	78625	-	16,313.20	-	5/12/2021	XFER	XFER \$ FROM SEWER & SEWER CAP.	RESERVE TO MA	
07392-0900	TRANSFER FROM SEWER CAP RESERVE	2105	JE	78746	-	31,885.04	-	5/19/2021	XFER	XFER \$ FROM SEWER CAP.RESERVE	TO MUN.AUTHORITY	
07392-0900	TRANSFER FROM SEWER CAP RESERVE	2105	JE	78802	-	2,859.50	-	5/25/2021	XFER	XFER \$ TO MA FROM SEWER	CAPITAL	
07392-0900	TRANSFER FROM SEWER CAP RESERVE	2106	JE	79162	-	9,985.87	-	6/16/2021	XFER	XFER \$ SEWER & SEWER CAPITAL	TO MUN.AUTH.	
07392-0900	TRANSFER FROM SEWER CAP RESERVE	2106	JE	79231	-	1,049.82	-	6/22/2021	XFER	XFER \$ FROM 09 SEWER CAPITAL	TO 07 MUN.AUTH.	
07392-0900	TRANSFER FROM SEWER CAP RESERVE	2107	JE	79501	-	3,819.33	-	7/13/2021	XFER	XFER \$ FROM SEWER & SEWER CAP.	RESERVE TO MA	
07392-0900	TRANSFER FROM SEWER CAP RESERVE	2109	JE	80367	-	18,979.99	-	9/14/2021	XFER MA	XFER \$ FROM 09 & 05 TO 07MA	RE: EXPENSES	
07424-1400	BEGINNING BALANCE											
07424-1400	ADMINISTRATIVE WAGES	2103	CD	78032	7,373.83	-	-	3/30/2021		3264 EAST GOSHEN TOWNSHIP - GENERAL	QTR.1-2021 REIMBURSEMENT	
07424-1400	ADMINISTRATIVE WAGES	2106	CD	79318	7,569.21	-	-	6/28/2021		3281 EAST GOSHEN TOWNSHIP - GENERAL	Q2 - 2021 MA REIMBURSEMENT	
07424-1400	ADMINISTRATIVE WAGES	2109	CD	80586	8,192.78	-	-	9/29/2021		3289 EAST GOSHEN TOWNSHIP - GENERAL	Q3-2021 QUARTERLY REIMBURSEMENT -MA	
07424-3000	BEGINNING BALANCE											
07424-3000	MISCELLANEOUS EXPENSE	2103	CD	77949	638.00	-	-	3/24/2021		3261 DELAWARE RIVER BASIN COMMISSION	2021 ANNUAL FEE	
07424-3000	MISCELLANEOUS EXPENSE	2104	CD	78161	880.25	-	-	4/8/2021		3265 PA MUNICIPAL AUTHORITIES ASSOC	2021 ACTIVE MEMBERSHIP DUES	
07424-3110	BEGINNING BALANCE											
07424-3110	MUNIC.AUTH.-AUDITING	2102	CD	77571	2,525.00	-	-	2/26/2021		3253 MAILLIE FALCONIERO & CO.	PROGRESS BILLING AUDIT EGT MUN.AUTH	
07424-3110	MUNIC.AUTH.-AUDITING	2103	CD	77949	5,317.00	-	-	3/24/2021		3263 MAILLIE FALCONIERO & CO.	FINANCIAL STMTS. & AUDIT 2020	
07424-3110	MUNIC.AUTH.-AUDITING	2104	CD	78451	2,158.00	-	-	4/29/2021		3271 MAILLIE FALCONIERO & CO.	BAL. DUE RE: MUNICIPAL AUTH. 2020	AUDIT
07424-3130	BEGINNING BALANCE											
07424-3130	ENGINEERING SERVICES	2101	CD	77095	66.00	-	-	1/12/2021		3243 PENNONI ASSOCIATES INC.	SERVICES THRU 12/6/20 GEN.SERVICES	
07424-3130	ENGINEERING SERVICES	2102	CD	77394	3,031.25	-	-	2/9/2021		3245 PENNONI ASSOCIATES INC.	SERVICE THRU 12/31/20 2020 GEN.SERV	
07424-3130	ENGINEERING SERVICES	2103	CD	77786	2,973.00	-	-	3/10/2021		3259 PENNONI ASSOCIATES INC.	SERVICES THRU 2/14/21 2020 CHAP.94	
07424-3130	ENGINEERING SERVICES	2104	CD	78252	11,300.81	-	-	4/15/2021		3268 PENNONI ASSOCIATES INC.	SERVICES THRU 3/21/21 RCSTP CAUSTIC	SODA CONVERSION
07424-3130	ENGINEERING SERVICES	2105	CD	78624	3,141.25	-	-	5/12/2021		3272 PENNONI ASSOCIATES INC.	SERVICES THRU 4/18/21 2020 CHAP.94	
07424-3130	ENGINEERING SERVICES	2106	CD	79161	4,038.00	-	-	6/16/2021		3278 PENNONI ASSOCIATES INC.	SERVICES THRU 5/16/21 2021 GEN.SERV	
07424-3130	ENGINEERING SERVICES	2107	CD	79500	4,046.75	-	-	7/13/2021		3283 PENNONI ASSOCIATES INC.	SERVICE THRU 6/20/21 RCSTP NPDES	PERMIT RENEWAL
07424-3130	ENGINEERING SERVICES	2109	CD	80366	3,754.75	-	-	9/14/2021		3285 PENNONI ASSOCIATES INC.	SERVICE THRU 7/18/21 2021 GEN.SERV.	
07424-3130	ENGINEERING SERVICES	2109	CD	80490	533.50	-	-	9/22/2021		3288 PENNONI ASSOCIATES INC.	SERVICE THRU 1/17/21 2020 CHAP.94	
07424-3130	ENGINEERING SERVICES	2110	CD	80787	5,244.75	-	-	10/15/2021		3290 PENNONI ASSOCIATES INC.	SERVICES THRU 9/19/21 2021 GEN.SERV	
07424-3140	BEGINNING BALANCE											
07424-3140	LEGAL SERVICES	2103	CD	77786	840.00	-	-	3/10/2021		3258 GAWTHROP GREENWOOD & HALSTED	LEGAL SERV. - DECEMBER 2020	
07424-3140	LEGAL SERVICES	2104	CD	78252	2,437.10	-	-	4/15/2021		3267 GAWTHROP GREENWOOD & HALSTED	LEGAL SERVICE - 2/5-2/9/21 GEN.AUTH	
07424-3140	LEGAL SERVICES	2106	CD	79161	2,512.41	-	-	6/16/2021		3277 GAWTHROP GREENWOOD & HALSTED	LEGAL SERVICE 4/9-4/13/21 GEN.AUTH.	
07424-3140	LEGAL SERVICES	2107	CD	79500	1,244.31	-	-	7/13/2021		3282 GAWTHROP GREENWOOD & HALSTED	LEGAL SERVICE 6/3-6/28/21 GEN.AUTH.	
07424-3140	LEGAL SERVICES	2109	CD	80366	440.00	-	-	9/14/2021		3284 GAWTHROP GREENWOOD & HALSTED	LEGAL SERVICE 7/12/21 GEN.AUTHORITY	
07424-3140	LEGAL SERVICES	2109	CD	80490	440.00	-	-	9/22/2021		3287 GAWTHROP GREENWOOD & HALSTED	LEGAL SERVICE 8/6-8/9/21 GEN.AUTH.	
07424-7490	BEGINNING BALANCE											
07424-7490	CAP.REPLACEMENT R.C.	2109	JE	80532	-	10,984.77	-	9/27/2021	REFUND	REFUND RE: DUPLICATE PAYMENT -	43831	
07429-1501	BEGINNING BALANCE											
07429-1501	BARKWAY PUMP STATION CAPITAL	2104	CD	78252	5,117.00	-	-	4/15/2021		3266 DECKMAN MOTOR & PUMP INC.	REBUILT HYDROMATIC PUMPS	
07429-1502	BEGINNING BALANCE											
07429-1502	ASHBRIDGE PUMP STATION CAPITAL	2105	CD	78743	30,324.00	-	-	5/19/2021		3273 DECKMAN MOTOR & PUMP INC.	REBUILT FAIRBANKS MORSE PUMP -	ASHBRIDGE - S/N 1495773-0
07429-1503	BEGINNING BALANCE											
07429-1503	HERSHEYS MILL PUMP STATION CAPITAL	2103	CD	77786	5,815.53	-	-	3/10/2021		3259 PENNONI ASSOCIATES INC.	SERVICES THRU 2/14/21 HM ESTATES	SEWER DESIGN & PERMITTING
07429-1503	HERSHEYS MILL PUMP STATION CAPITAL	2104	CD	78252	2,786.00	-	-	4/15/2021		3266 DECKMAN MOTOR & PUMP INC.	REBUILT HYDROMATIC PUMPS	
07429-1503	HERSHEYS MILL PUMP STATION CAPITAL	2104	CD	78359	(91.96)	-	-	4/26/2021		3269 COLONIAL ELECTRIC SUPPLY	CRED. RE: PARALLEL REEL AXLE	
07429-1503	HERSHEYS MILL PUMP STATION CAPITAL	2105	CD	78624	12,338.20	-	-	5/12/2021		3272 PENNONI ASSOCIATES INC.	SERV.THRU 4/18/21 HM ESTATES SEWER	

MUNICIPAL AUTHORITY October 31, 2021 YTD Financials

Account #	Description	Per	Src	Trx#	Debits	Credits	Balance	Date	Check#	Name	Description	Description 2
07429-1503	HERSHEYS MILL PUMP STATION CAPITAL	2109	CD	80366	15,879.99	-	-	9/14/2021		3285 PENNONI ASSOCIATES INC.	SERVICE THRU 7/18/21 HM ESTATES	SEWER DESIGN & PERMITTING
07429-1503	HERSHEYS MILL PUMP STATION CAPITAL	2109	JE	80368	36,945.42	-	-	9/14/2021	RECLASS	RECLASS PENNONI/HM ESTATE	PAYMENT - VARIOUS 2021	
07429-1503	HERSHEYS MILL PUMP STATION CAPITAL	2110	CD	80787	1,679.61	-	-	10/15/2021		3290 PENNONI ASSOCIATES INC.	SERV.THRU 9/19/21 HM ESTATES SEWER	DESIGN & PERMITTING
07429-1504	BEGINNING BALANCE											
07429-1504	HUNT CO PUMP STATION CAPITAL	2104	CD	78252	6,831.00	-	-	4/15/2021		3266 DECKMAN MOTOR & PUMP INC.	REBUILT HYDROMATIC PUMPS	
07429-1504	HUNT CO PUMP STATION CAPITAL	2106	CD	79161	790.00	-	-	6/16/2021		3276 DECKMAN MOTOR & PUMP INC.	REBUILT HYDROMATIC PUMP	
07429-1504	HUNT CO PUMP STATION CAPITAL	2106	CD	79183	656.00	-	-	6/21/2021		3279 DECKMAN MOTOR & PUMP INC.	REBUILT-HYDROMATIC PUMP	
07429-1505	BEGINNING BALANCE											
07429-1505	RCSTP CAPITAL	2102	CD	77394	462.00	-	-	2/9/2021		3244 MAIN LINE CONCRETE	2 YDS CONCRETE 4000 PSI	
07429-1505	RCSTP CAPITAL	2102	CD	77394	5,552.50	-	-	2/9/2021		3245 PENNONI ASSOCIATES INC.	SERVICE THRU 1/17/21 HERSH.MILL	ESTATES SEWER REPLACEMENT
07429-1505	RCSTP CAPITAL	2102	CD	77394	5,766.40	-	-	2/9/2021		3246 XYLEM DEWATERING SOLUTIONS INC.	8X50' HEAVY DUTY LAYFLAT HOSE "	
07429-1505	RCSTP CAPITAL	2102	CD	77433	1,647.00	-	-	2/12/2021		3247 COLONIAL ELECTRIC SUPPLY	HAMMOND ELECTRIC BOX	
07429-1505	RCSTP CAPITAL	2102	CD	77433	7,004.16	-	-	2/12/2021		3248 HANSON AGGREGATES PENNSYLVANIA LLC	203.31 TONS 1/4 STONE "	
07429-1505	RCSTP CAPITAL	2102	CD	77433	472.50	-	-	2/12/2021		3249 HICKS BROTHERS LLC	63 SMALL BALES OF STRAW	
07429-1505	RCSTP CAPITAL	2102	CD	77433	127.05	-	-	2/12/2021		3250 KNOX EQUIPMENT RENTALS INC.	MULCHER RENTAL1/21/21 HIBBERD LANE	
07429-1505	RCSTP CAPITAL	2102	CD	77433	2,258.00	-	-	2/12/2021		3251 TRENCHTECH INC.	SHORE RENT & NYLON LIFTING SLING	1/7-1/20/21
07429-1505	RCSTP CAPITAL	2102	CD	77433	3,527.20	-	-	2/12/2021		3252 XYLEM DEWATERING SOLUTIONS INC.	DRI-PRIME PUMP, HOSES & SUCTION	SCREEN RENTAL
07429-1505	RCSTP CAPITAL	2102	CD	77620	542.92	-	-	3/1/2021		3254 COLONIAL ELECTRIC SUPPLY	PVC CONDUITS, PANELS, LOCKNUTS &	VARIOUS ELECTRICAL PARTS
07429-1505	RCSTP CAPITAL	2102	CD	77620	1,112.20	-	-	3/1/2021		3255 EXETER SUPPLY COMPANY INC	MAX ADAPTERS (4)	
07429-1505	RCSTP CAPITAL	2102	CD	77620	14,066.00	-	-	3/1/2021		3256 FOLEY INC.	TRACK LOADER RENTAL 1/11-1/20/21	
07429-1505	RCSTP CAPITAL	2103	CD	77786	5,761.00	-	-	3/10/2021		3257 FOLEY INC.	EXCAVATOR, COUPLER & BUCKET RENTAL	1/11-1/28/21 HIBBERD LANE
07429-1505	RCSTP CAPITAL	2103	CD	77786	4,372.69	-	-	3/10/2021		3259 PENNONI ASSOCIATES INC.	SERVICES THRU 2/14/21 RCSTP CAUSTIC	SODA CONVERSION
07429-1505	RCSTP CAPITAL	2103	CD	77786	24.09	-	-	3/10/2021		3260 YALE ELECTRIC SUPPLY CO	NON-METALLIC CONNECTORS, COUPLING &	BLACK WIRING
07429-1505	RCSTP CAPITAL	2103	CD	77949	922.95	-	-	3/24/2021		3262 LEC - LENNI ELECTRIC CORPORATION	RACK FOR FLOW METER - HIBBERD	
07429-1505	RCSTP CAPITAL	2104	CD	78252	18,377.72	-	-	4/15/2021		3268 PENNONI ASSOCIATES INC.	SERV. THRU 3/21/21 HM ESTATES SEWER	
07429-1505	RCSTP CAPITAL	2104	CD	78359	401.60	-	-	4/26/2021		3269 COLONIAL ELECTRIC SUPPLY	PVC CONDUITS, BELL ENDS, STEEL LOCK	NUTS & POLE RISERS
07429-1505	RCSTP CAPITAL	2104	CD	78359	617.02	-	-	4/26/2021		3270 XYLEM DEWATERING SOLUTIONS INC.	SALES TAX RE: INVOICE #401064279	
07429-1505	RCSTP CAPITAL	2105	CD	78624	3,975.00	-	-	5/12/2021		3272 PENNONI ASSOCIATES INC.	SERV.THRU 4/18/21 RCSTP CAUSTIC SODA	
07429-1505	RCSTP CAPITAL	2105	CD	78743	1,561.04	-	-	5/19/2021		3274 YALE ELECTRIC SUPPLY CO	WIRE, POLE RISER & PARTS FOR PECO	CONDUIT
07429-1505	RCSTP CAPITAL	2105	CD	78797	2,859.50	-	-	5/25/2021		3275 LEC - LENNI ELECTRIC CORPORATION	ELECTRICAL SERVICE RE: HIBBERD LANE	FLOW METER
07429-1505	RCSTP CAPITAL	2106	CD	79161	9,195.87	-	-	6/16/2021		3278 PENNONI ASSOCIATES INC.	SERV. THRU 5/16/21 2021 HM ESTATES	SEWER DESIGN
07429-1505	RCSTP CAPITAL	2106	CD	79183	393.82	-	-	6/21/2021		3280 HIGHWAY MATERIALS INC.	7.53 TONS 9.5mm, 0.3<3,H HIBBERD LN	METER
07429-1505	RCSTP CAPITAL	2107	CD	79500	3,819.33	-	-	7/13/2021		3283 PENNONI ASSOCIATES INC.	SERVICE THRU 6/20/21 HM ESTATES	SEWER DESIGN & PERMITTING
07429-1505	RCSTP CAPITAL	2109	CD	80366	3,100.00	-	-	9/14/2021		3286 WARD LANDSCAPE SERVICES INC.	PLANT & MULCH 12 SKIP LAURELS -	HIBBARD LANE
07429-1505	RCSTP CAPITAL	2109	JE	80368	-	36,945.42	-	9/14/2021	RECLASS	RECLASS PENNONI/HM ESTATE	PAYMENT - VARIOUS 2021	
07429-1505	RCSTP CAPITAL	2110	CD	80787	3,975.00	-	-	10/15/2021		3290 PENNONI ASSOCIATES INC.	SERVICES THRU 9/19/21 RCSTP CAUSTIC	SODA CONVERSION
07429-1505	RCSTP CAPITAL	2110	CD	80870	845.34	-	-	10/21/2021		3291 BEYOND COMPONENTS INC.	UV SYSTEM	
07429-1505	RCSTP CAPITAL	2110	CD	80870	131.50	-	-	10/21/2021		3292 GOVCONNECTION INC.	UV SYSTEM CONNECTORS	
07491-5001	BEGINNING BALANCE											
07491-5001	Bank Fees	2102	EX	77369	34.50	-	-	2/9/2021	77369 1		REIMB. S/R -JAN.2021 BANK FEES	Bank Fees
07491-5001	Bank Fees	2102	JE	77346	34.50	-	-	2/8/2021	REVERSE	REVERSE & CORRECT TRX. 76976	BANK FEE CHARGES	
07491-5001	Bank Fees	2103	EX	77652	34.50	-	-	3/2/2021	77652 1		REIMB.S/R - FEB.2021 BANK FEES	Bank Fees
07491-5001	Bank Fees	2104	EX	78095	34.50	-	-	4/1/2021	78095 1		REIMB.S/R - 3/2021 BANK FEES	Bank Fees
07491-5001	Bank Fees	2105	EX	78504	34.50	-	-	5/4/2021	78504 1		REIMB.S/R FOR APRIL BANK FEES	Bank Fees
07491-5001	Bank Fees	2106	EX	78925	34.50	-	-	6/2/2021	78925 1		REIMB. S/R MAY 2021 BANK FEES	Bank Fees
07491-5001	Bank Fees	2107	EX	79392	34.50	-	-	7/1/2021	79392 1		JUNE 2021 BANK FEES	Bank Fees
07491-5001	Bank Fees	2108	EX	79797	34.50	-	-	8/2/2021	79797 1		REIMBURSE S/R - JULY BANK FEES	Bank Fees
07491-5001	Bank Fees	2109	EX	80231	34.50	-	-	9/1/2021	80231 1		AUGUST 2021 BANK FEE	Bank Fees
07491-5001	Bank Fees	2110	EX	80639	34.50	-	-	10/4/2021	80639 1		REIMB.S/R FOR 9/2021 BANK FEES	Bank Fees

**EAST GOSHEN TOWNSHIP
MUNICIPAL AUTHORITY**

RESOLUTION NO. ____-2021

**A RESOLUTION OF THE BOARD OF THE EAST GOSHEN TOWNSHIP MUNICIPAL
AUTHORITY, CHESTER COUNTY, PENNSYLVANIA, APPROVING AN
INTERMUNICIPAL SEWAGE TREATMENT AGREEMENT WITH WILLISTOWN
TOWNSHIP AND EAST GOSHEN TOWNSHIP TO ALLOW THREE LOTS ALONG
LINE ROAD TO DISCHARGE SEWAGE INTO THE EAST GOSHEN TOWNSHIP
PUBLIC SEWER SYSTEM.**

WHEREAS, East Goshen Municipal Authority (the "Municipal Authority") is a municipal authority organized in the Commonwealth of Pennsylvania pursuant to the Municipality Authorities Act, 53 Pa.C.S. §5601 et seq., which owns the sewage collection and treatment system in East Goshen Township (the "Sewer System");

WHEREAS, East Goshen Township ("East Goshen") is a township of the second class which leases the Sewer System from the Municipal Authority and operates the same;

WHEREAS, three properties located at 75, 79 and 81 Line Road in Willistown Township (the "Willistown Properties") are connected to the Ridley Creek Sewage Collection System which is part of the Sewer System;

WHEREAS, East Goshen and the Municipal Authority permitted the Willistown Properties to connect to the Sewer System but there was never an intergovernmental agreement in place for the same;

NOW THEREFORE BE IT RESOLVED BY THE BOARD OF THE EAST GOSHEN TOWNSHIP MUNICIPAL AUTHORITY as follows:

SECTION 1. Municipal Authority hereby approves the Sewage Treatment Agreement attached hereto as Exhibit "A" ("Intermunicipal Agreement"), by which East Goshen and the Municipal Authority grant to Willistown Township the right to discharge sewage waste from the Willistown Properties into the Sewer System for treatment.

SECTION 2. Duration. The Intermunicipal Agreement shall not expire and shall be in effect for as long as the Willistown Properties are connected to the Sewer System.

SECTION 3. Purpose and Objectives. The purpose of the Agreement is to memorialize the approval by East Goshen, the Municipal Authority and Willistown of the connection of the Willistown Properties to the Sewer System and address each parties' respective obligations related to providing sewer service to such properties.

SECTION 4. The Intermunicipal Agreement attached hereto as Exhibit "A" sets forth the organizational structure necessary to implement the Agreement, and the manner in which the Willistown Properties at issue shall be connected to the Sewer System.

RESOLVED AND ADOPTED by the Board of Supervisors of East Goshen, Chester County, Pennsylvania, this 8th day of November, 2021.

Walter Wujcik, Secretary

Dana Pizzaro, Chairman

Jack E. Yahraes, Vice Chairman

Walter Wujcik

Kevin R. Cummings

Phil Mayer

SEWAGE TREATMENT AGREEMENT

THIS AGREEMENT, made the _____ day of _____, 2021 by and among **EAST GOSHEN TOWNSHIP** (“East Goshen”), **EAST GOSHEN MUNICIPAL AUTHORITY** (“East Goshen Authority”) and **WILLISTOWN TOWNSHIP** (Willistown”).

WITNESSETH:

WHEREAS, 75, 79, and 81 Line Road, Malvern, PA 19533 (the “Properties”) are three improved lots currently located in Willistown which discharge sanitary sewage into the East Goshen Sewage System that is owned by the East Goshen Authority; and

WHEREAS, the purpose of this Agreement is to affirm and set forth the terms and conditions by which the sanitary sewage generated by the Properties shall be received and treated by East Goshen at the Ridley Creek Sewage Treatment Plant.

NOW, THEREFORE, the parties hereto, each binding itself, its successors and assigns, and each representing that it has the proper legal authority to enter into this Agreement, do mutually represent, covenant and agree as follows:

1. East Goshen and East Goshen Authority grant Willistown the right to discharge sanitary sewage wastes from the Properties into the East Goshen Sewage System for treatment. Such discharge shall be made into East Goshen’s Ridley Creek Sewage Collection System located in East Goshen. No other sanitary sewage from Willistown shall be discharged into the East Goshen Sewage System. East Goshen and East Goshen Authority agree that sufficient sewage capacity has been allocated in the East Goshen Sewage System to receive and treat the sanitary sewage generated by the Properties.
2. East Goshen and East Goshen Authority reserve the right at any time to divert the sanitary sewage from the Properties to any other treatment facility of the East Goshen Sewage System. Willistown reserves the right at any time to divert the sanitary sewage from the Properties to any other treatment facility in its system, in which event East Goshen’s and East Goshen Authority’s obligation to receive the sanitary sewage wastes from the Properties pursuant to this Agreement shall terminate.
3. East Goshen shall be responsible for the maintenance and repair for the entire collection system which collects and conveys sanitary sewage from the Properties including the portion within Willistown. Willistown hereby grants East Goshen and/or East Goshen Authority the right to enter upon its streets and/or easements, as necessary, in order to effect repairs or perform maintenance on the collection system which collects and conveys sanitary sewage from the Properties. East Goshen and/or East Goshen Authority shall repair and restore all disturbed areas of land in Willistown resulting from such repair and maintenance.

4. Willistown agrees to permit no discharges into the collection system which collects and conveys sanitary sewage from the Properties other than domestic waste and agrees to abide by all East Goshen's and East Goshen Authority's regulations governing the discharge of waste into the East Goshen Sewage System.
5. Willistown shall be responsible for the billing of the Properties for sewage service provided by East Goshen. East Goshen shall bill Willistown on a calendar quarter basis at the regular residential sewer rental charge established according to the East Goshen sewer rate ordinance or resolution for treatment of the sanitary sewage generated by the Properties. Payment shall be made by Willistown within 30 days of delivery of the bill.

IN WITNESS WHEREOF, the parties have caused these presents to be executed the day and year first written above.

ATTEST:

EAST GOSHEN TOWNSHIP

BY: _____
David Shuey, Chairman

ATTEST:

EAST GOSHEN MUNICIPAL AUTHORITY

BY: _____
Dana Pizarro, Chair

ATTEST:

WILLISTOWN TOWNSHIP

BY: _____

Mark Miller

From: Vince Donohue <vdonohue@lambmcerlane.com>
Sent: Thursday, October 28, 2021 10:05 AM
To: Patrick M. McKenna (pmckenna@gawthrop.com); Kristin S. Camp (kcamp@buckleyllp.com); Derek Davis; Mark Miller
Subject: FW: Aqua - Willistown Sewer - EGT & EGMA Issue
Attachments: 26. Exhibit F12 - 2003-00-00 Sewage Treatment Agreement.pdf; Pro-Forma Sewage Treatment Agreement -East Goshen and Willistown - 75, 79, and 81 Line Rd.docx

All, just following up on my email below. Thanks.

From: Vince Donohue
Sent: Thursday, October 21, 2021 11:01 AM
To: Patrick M. McKenna (pmckenna@gawthrop.com) <pmckenna@gawthrop.com>; Kristin S. Camp (kcamp@buckleyllp.com) <kcamp@buckleyllp.com>; Derek Davis (ddavis@eastgoshen.org) <ddavis@eastgoshen.org>; Mark Miller <mmiller@eastgoshen.org>
Subject: Aqua - Willistown Sewer - EGT & EGMA Issue

Derek, Mark, Kristin & Pat –

I hope all is well. We are representing Aqua in connection with its acquisition of Willistown Township's sanitary sewer system. One of the issues that has arisen involves three residential properties in Willistown Township that send flows to East Goshen for treatment. 75, 79 and 81 Line Road (right on the border between WT and EGT) are served by the treatment plant in Clocktower Woods. The PUC has raised a deficiency with the application indicating that there should be a written intermunicipal agreement among WT and EGT/EGMA for the services provided to these three properties.

Interestingly, in 2003, when Vince D'Annunzio developed 79 Line Road, Willistown sent him to EG to confirm the availability of sewer. EGMA's minutes from 2003 approving the connection are attached ("Exhibit F12" pdf), as is the letter from Rick Smith to D'Annunzio referenced in those minutes. As a result of EGMA's approval and the letter, which was copied to Willistown's manager at the time, the Sewage Treatment Agreement draft was created, which is also attached at the end of the attached PDF. No one – including East Goshen - has a signed copy of that Agreement.

So, in order to satisfy the PUC's deficiency regarding this issue, we have drafted the attached template Sewage Treatment Agreement to document the existing arrangement among WT, EGT and EGMA for the three properties. The draft mirrors the 2003 unsigned version included with the attached PDF.

We are asking that EGT and EGMA consider the draft for approval.

Let me know if either of you has any questions about this. Thanks,

Vin

Vincent T. Donohue

L A M B | M c E R L A N E ^{PC}
ATTORNEYS AT LAW

Direct: 610.701.4429
Cell: 610.416.8841
Fax: 610.692.0877

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[vCard](#) [Bio](#) [LinkedIn](#)

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EXHIBIT F12

SEWAGE TREATMENT AGREEMENT, DATED 2003,
BY AND BETWEEN EAST GOSHEN TOWNSHIP,
EAST GOSHEN MUNICIPAL AUTHORITY,
AND THE TOWNSHIP OF WILLISTOWN

EAST GOSHEN TOWNSHIP
MUNICIPAL AUTHORITY MEETING
MINUTES
August 11, 2003

The East Goshen Township Municipal Authority held their regularly scheduled meeting on Monday, August 11, 2003 at 7:00 PM at the East Goshen Township Building. Members in attendance were Chairman Joseph McCawley, Francis Beck, John Graham, Kevin Cummings and Robert Koski. Also present were Authority Engineer David Linahan, Planning Commission Liaison Jack Yahraes, Township Solicitor Robert Adams, Township Manager Rick Smith and Board of Supervisor Carmen Battavio.

1. CALL TO ORDER

The Chairman called the meeting to order at 7:00 PM and led those present in the Pledge of Allegiance.

2. LIAISON REPORTS

Planning Commission (*Jack Yahraes*) -- reported that David DellaPorta, developer of the Fedor property has requested the Township change the zoning for the 3 properties just north of the Fedor property. If approved it would increase the number of units from 134 to 184.

Board of Supervisors (*Bob Koski*) -- reported that the Board of Supervisors adopted a resolution at their August Meeting asking Jackie Weber, Chairman of the Historical Commission to resign. He also noted that two other members of the Historical Commission had tendered their resignations from the Commission.

3. APPROVAL OF MINUTES

Kevin Cummings moved to approve the Minutes of July 14, 2003 as corrected. Fran Beck seconded the motion. There was no public comment. The motion carried unanimously.

4. APPROVAL OF INVOICES

- A. The Yerkes bill for the month of June 2003 was not submitted.
- B. John Graham moved to approve payment of Gawthrop, Greenwood & Halsted bill for the month of June 2003 in the amount of \$894.18. Fran Beck seconded the motion. There was no public comment. The motion carried unanimously.

5. FINANCIAL REPORTS

Bob Koski made a motion to convert the \$1,128,000.00 DVRFA Loan to a Guaranteed Revenue Note at the 15 year fixed rate of 3.754% with the maturity date of October 25th 2018. John Graham seconded the motion. There was no public comment. The motion carried unanimously.

6. OLD BUSINESS

- A. Goals for 2003 – Rick Smith will change the DVRFA Loan Goal to reflect a change converting from a variable rate to a fixed rate. The loan will continue to be monitored monthly.
- B. Ridley Creek Expansion – Dave Linahan gave an overview of the information sent by Bob Smith of Riordan Materials Corp. with regards to the MBR System. Included were references to be contacted along with Engineer Firms for peer reviews. Dave suggested that Mr. Thomas Milnes be used for the peer review as he has extensive experience with MBR Systems. Joe McCawley will contact Mr. Milnes for a proposal on the project. Joe McCawley also shared a draft proposal from Pennoni Associates outlining their peer review proposal. Pennoni Associates has in-depth international experience with waste management system and should be considered.

Kevin Cummings made a motion giving Rick Smith the authority to contact JefTech to negotiate a rate for a pilot program with the MBR System for the East Goshen Township. Fran Beck seconded the motion. There was no public comment. The motion carried unanimously.

Joe McCawley also received a letter from Bill Schoenhut of Marshall Stevens with a draft proposal to appraise the value of the Ridley Creek Plans. Mr. Schoenhut's letter will be distributed at the September Municipal Authorities Meeting.

7. NEW BUSINESS

Bob Adams presented an amended capacity reservation agreement between East Goshen and Synthes. Joe McCawley executed the sewage capacity agreement with Bob Koski attesting to the agreement. Bob Adams will record the amendment.

8. CAPACITY REPORTS

Vincent D'Annunzio of Vintage Development was present for the Municipal Authority Meeting and submitted a request for sewer capacity for 79 Line Road – Lot #2. John Graham made a motion approving Mr. D'Annunzio's request provided that the connection meet the standards set by East Goshen Township and is also approved by Willistown Township. Bob Koski seconded the motion. There was no public comment. The motion carried unanimously. Rick Smith will send a letter of approval to Mr. D'Annunzio.

August 15, 2003

Vincent J. D Annunzio
Vintage Development company
63 Chesnut Road
Paoli PA 19301

Re: 79 Line Road

Dear Vince:

At their meeting on August 11, 2003, the Municipal Authority approved your request to connect your lot at 79 Line Road in Willistown Township to the East Goshen Township public sewer system subject to the following conditions.

1. The Authority will require conformation from Willistown Township that they are in agreement with your request.
2. The method of connection needs to be approved by the Authority Engineer.
3. You would be responsible for obtaining all permits required to connect to the public sewer.
4. You would be responsible for all construction, and inspection costs associated with connecting to the public sewer.
5. Payment of the tapping fee of \$2,000 to East Goshen Municipal Authority and a \$60 inspection fee payable to East Goshen Township.

By way of this letter, I am advising Hugh Murray, Willistown Township Manager, of your request and the Authority's decision. With respect to condition #1 I would encourage you to contact him directly to see what would be required from his end.

Please give me a call at 610-692-7171 if you have any questions or need additional information.

Sincerely,

Louis F. Smith, Jr.
Township Manager

cc: Hugh Murray, Township Manager

Mr. Hugh Murray, Township Manager
Willistown Township
688 Sugartown Road
Malvern PA 19355



Christiana Executive Campus
121 Continental Drive, Suite 207
Newark, DE 19713
T: 302-655-4451
F: 302-654-2895

www.pennoni.com

November 5, 2021

EGMAU21001

East Goshen Municipal Authority
Attn: Mark Miller, Public Works Director
1580 Paoli Pike
West Chester, PA 19380

RE: Sewer Extension Study
Charter Chase, Brookmont, Goshen Downs, Indian Hills, Millstream Drive, Raewyck Drive, Ivy Lane, Old Orchard Lane, Joshua Drive, Great Oak Circle

Dear Mr. Miller:

This letter report provides a limited study revisiting the 2007 East Goshen Township Sewage Facilities Management Plan (Act 537) for public sewer extensions to Brookmont and Charter Chase, and it evaluates extensions within the northern portion of East Goshen to Goshen Downs, Indian Hills, Millstream Drive, Raewyck Drive, Ivy Lane, Old Orchard Lane, Joshua Drive, and Great Oak Circle for the first time. The purpose of this study is to estimate the potential costs to connect the neighborhoods to public sewer for consideration by the East Goshen Municipal Authority and subject property owners.

EXECUTIVE SUMMARY

The following Table 1 summarizes the sewer extension study alternatives and cost opinions. The cost opinions represents the initial probable costs of each alternative. These costs do not include possible downstream Township pump station upgrades or tapping fees and assume the property owners will be responsible for the full costs. However, there are grant programs that could be pursued to offset the costs.

The costs of public sewer extensions can be compared to the costs of replacing an On-Lot Disposal System (OLDS) at the end of its useful life, assuming there is adequate land area and soils to do so. OLDS replacement alternatives typically include gravity septic systems, sand mounds, at-grade systems, or drip irrigation systems. Replacement costs for these systems typically range from \$15,000-\$35,000 depending on several factors such as soil permeability and the type of system to be installed. Gravity septic systems typically fall at the low end of this range while sand mounds, at-grade, and drip irrigation systems are at the high end.

Table 1 – Cost Opinion Summary Table

	Alternative	Opinion of Probable Costs	Properties	Estimated Cost Per Property
Charter Chase	Low Pressure Sewer to Barkway Pump Station	\$4,618,000	98	\$48,000
	Low Pressure Sewer to Hershey's Mill Pump Station	\$5,181,000		\$53,000
Brookmont	Low Pressure Sewer to Pond View Lane	\$2,247,000	41	\$55,000
	Gravity Sewer with Grinder Pumps to Pond View Lane	\$2,554,000		\$63,000
Goshen Downs	Gravity Sewer with Grinder Pumps to Hershey's Mill Pump Station	\$4,218,000	76	\$56,000
	Low Pressure Sewer to Hershey's Mill Pump Station	\$4,096,000		\$54,000
Millstream Drive	Gravity Sewer to Tanglewood Drive	\$1,833,000	24	\$77,000
	Low Pressure Sewer to Tanglewood Drive	\$1,427,000		\$60,000
Indian Hills	Gravity Sewer with Grinder Pumps to Line Road and Taylor Avenue	\$2,103,000	41	\$52,000
	Low Pressure Sewer to Line Road	\$2,017,000		\$50,000
Raewyck Drive	Low Pressure Sewer to Taylor Avenue	\$914,000	15	\$61,000
Ivy Lane	Gravity Sewer to Rossmore Drive	\$529,000	4	\$133,000
	Low Pressure Sewer to Rossmore Drive	\$359,000		\$90,000
Old Orchard Lane	Gravity Sewer with Grinder Pumps to Shandon Place	\$617,000	7	\$89,000
	Low Pressure Sewer to Shandon Place	\$440,000		\$63,000
Joshua Drive	Low Pressure Sewer to Culbertson Circle	\$1,208,000	18	\$68,000
Great Oak Circle	Low Pressure Sewer to Morstein Road	\$522,000	8	\$66,000
TOTAL EDUs			332	
TOTAL FLOW (at 225 gpd/EDU)			74,700 gpd	

The probable costs for sewer extension range from \$48,000 to \$90,000 per property. While this is greater than a typical OLDS replacement cost (if OLDS replacement is feasible), it is important to consider that the life expectancy of an OLDS is 20-30 years, whereas the life expectancy of a public sewer is over 50 years. It should also be noted for a public sewer extension that the property owners are only responsible for the building sewer pipe (from the right-of-way to the house) and grinder pump, where applicable.

2007 ACT 537 PLAN BACKGROUND

In 2007, a series of alternatives were evaluated for Charter Chase and Brookmont to replace existing OLDS's with public sewer. On April 25, 2007, the Township Board of Supervisors voted unanimously to maintain the existing OLDS's, while noting that public sewer offers more protective measures of human health, water resources, and the natural environment. No action was taken for those two neighborhoods for the following reasons as cited in 2007 from the East Goshen Township Sewage Facilities Management Plan:

1. Existing wastewater disposal needs: Replacement disposal areas have been able to be sited on the properties and sufficient area remains on most properties as they average 1 acre in size each; the neighborhood drinking water supply is from a public water supply system and there are no known

water supply wells within the neighborhoods or within the vicinity of the neighborhoods, the risk of illness due to drinking water contamination is minimal; and there are no known violations of either the NPDES discharge criteria or the Clean Streams Law.

2. Operation and maintenance considerations: Property owners are familiar with OLDS operation and maintenance, and the Township ordinance requiring system pumping at least every three years helps ensure systems are properly maintained.
3. Cost-effectiveness: Lowest life-cycle cost of all alternatives considered.
4. Available management and administrative systems: The Township has the existing management and administrative systems needed already in place.
5. Available financing methods: Private financing is available for funding the replacement of an OLDS.
6. Environmental soundness and compliance with natural resource planning and preservation programs: Continued use of OLDS will not change present "environmental soundness" or compliance with natural resource planning and preservation programs.

DESCRIPTION OF ALTERNATIVES

For each of the ten neighborhoods in this current study, a brief desktop analysis was completed utilizing available GIS topography and imagery to identify alternatives which would allow the neighborhoods to connect to existing public sewer. This study does not include detailed design alternatives such as the ones produced for Brookmont and Charter Chase in 2007 but does provide insight about the sewer alternatives and probable costs.

Each of the following alternatives was evaluated with significant considerations to minimizing the costs to the property owners. For this reason, alternatives requiring new Township pump stations were avoided entirely. Some neighborhoods have more alternatives than others due to the feasibility of implementing gravity vs. low pressure (i.e. grinder pump) systems and connection to the Ridley Creek vs. Chester Creek Service Areas. Each neighborhood has varying topographical features which either support or oppose different sewer systems. Alternatives that were considered but found to be infeasible are not included in the study.

An exhibit for each alternative has been developed to provide a visual along with the description. The exhibits are included as enclosures to this report. Additionally, a Township sewer map is included to display each of the study areas, pump stations and treatment facilities in a regional context.

1. Charter Chase

- A. Low Pressure Sewer to Barkway Pump Station (Exhibit 1, Alternative 1): Construct LPS (Low Pressure Sewer) within the neighborhood and out to the Barkway Pump Station. The LPS would be installed within the road rights-of-way (ROWs). The neighborhood's wastewater will discharge to the Chester Creek (West Goshen) Service Area.
- B. Low Pressure Sewer to Hadleigh Drive (Exhibit 1, Alternative 2): Construct LPS within the neighborhood and out to Greenhill Road to the existing gravity system east of Hadleigh Drive, which subsequently discharges to Hershey's Mill Pump Station. The LPS would be installed within road ROWs. Under this alternative, the neighborhood's wastewater will discharge to the Ridley Creek Service Area.
 - If Goshen Downs was also to be sewerred, a sub alternative is that the Charter Chase system could tie into the new sewers from Goshen Downs, which will also run along Greenhill Road.

2. Brookmont

- A. Low Pressure Sewer to Pond View Lane (Exhibit 2A): Construct LPS within the neighborhood and out to Pond View Lane for discharge into the gravity sewer at Pond View Lane. The LPS would be installed within road ROWs. A short gravity section between Line Road and Pond View Lane would be installed through a wooded easement. The wastewater will discharge to the Ridley Creek Service Area.
- B. Gravity Sewer with Grinder Pumps to Pond View Lane (Exhibit 2B): Construct gravity sewer within the neighborhood through Line Road, to the existing gravity sewer at Pond View Lane. The gravity sewer would be installed in both road ROWs and easements with grinder pumps to supplement properties at low elevations. The wastewater will discharge to the Ridley Creek Service Area.

3. Goshen Downs

- A. Gravity Sewer with Grinder Pumps to Hadleigh Drive (Exhibit 3A): Construct gravity sewer within the neighborhood through Patterson Circle to the existing gravity sewer at Hadleigh Drive, which subsequently discharges to the Hershey's Mill Pump Station. Areas with low elevation would be supplemented with grinder pumps and LPS lines which would pump to the new gravity mains. Approximately six easements would be needed, including easements from homeowners on Hadleigh Drive. The wastewater would discharge to the Ridley Creek Service Area.
- B. Low Pressure Sewer to Hershey's Mill Pump Station (Exhibit 3B): Construct LPS within the neighborhood and out to Greenhill Road to the existing gravity system at Hadleigh Drive, which subsequently discharges to the Hershey's Mill Pump Station. The LPS would be installed entirely in the road ROWs. The wastewater would discharge to the Ridley Creek Service Area.
- There is an alternative possibility of tying into existing sewer on Hadleigh Drive directly from the Patterson Lane cul-de-sac to reduce the length of LPS piping. At least two easements would be needed, including one from a homeowner on Hadleigh Drive.

4. Millstream Drive

- A. Gravity Sewer to Tanglewood Drive (Exhibit 4A): Construct gravity sewer within the neighborhood where about half of the properties' sewer would be conveyed along Millstream Drive and along the Tributary to Ridley Creek to an existing sewer at Tanglewood Drive. At least two easements would be needed. The other half of the properties' sewer would travel along Millstream Drive and out to Hershey Mill Road where it would connect to an existing sewer at Tanglewood Drive. The wastewater would travel to the Hershey's Mill Pump Station and discharge to the Ridley Creek Service Area.
- B. Low Pressure Sewer to Tanglewood Drive (Exhibit 4B): Construct LPS within the neighborhood and out to Hershey Mill Road to Tanglewood Drive. The LPS would be installed in the road ROWs. The wastewater would travel to Hershey's Mill Pump Station and discharge to the Ridley Creek Service Area.

5. Indian Hills

- A. Gravity Sewer with Grinder Pumps to Line Road and Taylor Avenue (Exhibit 5A): Construct gravity sewer within the neighborhood where Oneida Lane and Seneca Drive would flow out to Warrior Road and connect to existing sewer at Line Road. Iroquois Lane would be a separate gravity system which would flow west on Warrior Road and connect to existing sewer at Taylor Avenue. The section of Warrior Road between Iroquois Lane and Seneca Drive would be supplemented by grinder pumps and

would also flow out to existing sewer at Taylor Avenue. All sewers would be within road ROWs. The wastewater would discharge to the Ridley Creek Service Area.

- B. Low Pressure Sewer to Line Road (Exhibit 5B): Construct LPS within the neighborhood out to the existing gravity system at Line Road. The LPS would be installed entirely in the road ROWs. The wastewater would discharge to the Ridley Creek Service Area.

6. Raewyck Drive

- A. Low Pressure Sewer to Taylor Avenue (Exhibit 6): Construct LPS within the neighborhood to the existing gravity system at Taylor Avenue. The LPS would be installed in the road ROWs and between at least two parcels via easements in a forested area to connect to Taylor Avenue. The wastewater would discharge to the Ridley Creek Service Area.

7. Ivy Lane

- A. Gravity Sewer to Rossmore Drive (Exhibit 7A): Construct gravity sewer within the neighborhood to the existing gravity system at Rossmore Drive. The gravity sewer would be installed in the road ROW and between two parcels at the end of the cul-de-sac to Rossmore Drive via three to five easements, including at least one easement on Rossmore Drive. The wastewater would discharge to the Ridley Creek Service Area.
- B. Low Pressure Sewer to Rossmore Drive (Exhibit 7B): Construct LPS within the neighborhood to the existing gravity system at Rossmore Drive following the same route, easements, and connection point as Alternative 7A.

8. Old Orchard Lane

- A. Gravity Sewer with Grinder Pumps to Shandon Place (Exhibit 8A): Construct gravity sewer within the neighborhood to the existing gravity system at Shandon Place. The gravity sewer would be installed in the road ROWs and via three to five easements between the Old Orchard Lane cul-de-sac and Shandon Lane, including at least one easement on Shandon Lane. Grinder Pumps would be used to supplement houses at low elevations. The wastewater would discharge to the Ridley Creek Service Area.
- B. Low Pressure Sewer to Shandon Place (Exhibit 8B): Construct LPS within the neighborhood to the existing gravity system at Shandon Place following the same route, easements, and connection point as Alternative 8A.

9. Joshua Drive

- A. Low Pressure Sewer to Culbertson Circle (Exhibit 9): Construct LPS within the neighborhood and along Greenhill Road to the existing gravity system at Culbertson Circle. The LPS would be installed in the road ROWs and potentially between multiple parcels via easements on and adjacent to Culbertson Circle. The wastewater would discharge to the Chester Creek Service Area.
- If Charter Chase were to be sewered, a sub alternative is that the Joshua Drive system could tie into the new sewers from Charter Chase at Waterford Road.

10. Great Oak Circle

- A. Low Pressure Sewer to Morstein Road (Exhibit 10): Construct LPS within the neighborhood, out to the existing gravity sewer in Morstein Road or Amstel Way. The LPS would be installed in the road ROWs. The wastewater would be conveyed to the Barkway Pump Station and into the Chester Creek Service Area.
- If Charter Chase were to be sewered, a sub alternative is that the Great Oak Circle system could tie into the new sewers from Charter Chase at Waterford Road.

WASTEWATER FACILITIES CAPACITY

Certain existing Township pump stations and wastewater facilities may require upgrades to accommodate these additional flows. As noted previously, costs for such upgrades are not included in Table 1 since determination of such upgrades is beyond the scope of this study. However, to determine if pump stations would have adequate capacity, a brief analysis of the 2019 Chapter 94 Reports was performed to assess the current flows and capacities. The 2019 Reports were used instead of the 2020 Reports due to irregular flows during the height of the COVID-19 pandemic in 2020.

According to the West Goshen Chapter 94 Report, the Barkway Pump Station receives an Average Annual Flow of 10,685 gpd with a Peak Flow of 26,830 gpd. The pump station has a permitted capacity of 86,000 gpd so it would not require an upgrade with the addition of Charter Chase, Joshua Drive, and Great Oak Circle. According to the Ridley Creek Chapter 94 Report, the Hershey’s Mill Pump Station receives an Average Annual Flow of 74,610 gpd with a Peak Flow of 137,596 gpd. The pump station has a permitted capacity of 83,000 gpd. It therefore cannot accommodate significant additional flow so it would require an upgrade with the addition of Goshen Downs and Millstream Drive.

As summarized in the table below, West Goshen would receive an additional 27,900 gpd and Ridley Creek an additional 46,800 gpd from these sewer extensions. Therefore, these sewer extensions would not exceed the Ridley Creek STP capacity or the West Goshen intermunicipal agreement capacity.

Table 2 – Projected Additional Flow

	Properties	Added Flow (gpd) (at 225 gpd/EDU)	Pump Station	Service Area
Chester Creek (West Goshen) Service Area				
Charter Chase	98	22,050	Barkway	West Goshen
Joshua Drive	18	4,050	Barkway	West Goshen
Great Oak Circle	8	1,800	Barkway	West Goshen
West Goshen Total	124	27,900 gpd		
Ridley Creek Service Area				
Brookmont	41	9,225	N/A	Ridley Creek
Goshen Downs	76	17,100	Hershey’s Mill	Ridley Creek
Millstream Drive	24	5,400	Hershey’s Mill	Ridley Creek
Indian Hills	41	9,225	N/A	Ridley Creek
Raewyck Drive	15	3,375	N/A	Ridley Creek
Ivy Lane	4	900	N/A	Ridley Creek
Old Orchard Lane	7	1,575	N/A	Ridley Creek
Ridley Creek Total	208	46,800 gpd		

If you should have any questions, please do not hesitate to contact me.

Sincerely,

PENNONI ASSOCIATES INC.



Michael J. Ellis, PE
Authority Engineer

/rmf

- Enclosures:
- Exhibit 1 - Charter Chase (Low Pressure Sewer to Barkway / Hershey's Mill Pump Station)
 - Exhibit 2A - Brookmont (Low Pressure Sewer to Pond View Lane)
 - Exhibit 2B - Brookmont (Gravity Service + Grinder Pumps to Pond View Lane)
 - Exhibit 3A - Goshen Downs (Gravity Service + Grinder Pumps to Hadleigh Drive)
 - Exhibit 3B - Goshen Downs (Low Pressure Sewer to Hershey's Mill Pump Station)
 - Exhibit 4A - Millstream Drive (Gravity Sewer to Tanglewood Drive)
 - Exhibit 4B - Millstream Drive (Low Pressure Sewer to Tanglewood Drive)
 - Exhibit 5A - Indian Hills (Gravity Service + Grinder Pumps to Line Road and Taylor Avenue)
 - Exhibit 5B - Indian Hills (Low Pressure Sewer to Line Road)
 - Exhibit 6 - Raewyck Drive (Low Pressure Sewer to Taylor Avenue)
 - Exhibit 7A - Ivy Lane (Gravity Sewer to Rossmore Drive)
 - Exhibit 7B - Ivy Lane (Low Pressure Sewer to Rossmore Drive)
 - Exhibit 8A - Old Orchard Lane (Gravity Sewer + Grinder Pumps to Shandon Place)
 - Exhibit 8B - Old Orchard Lane (Low Pressure Sewer to Shandon Place)
 - Exhibit 9 - Joshua Drive (Low Pressure Sewer to Culbertson Circle)
 - Exhibit 10 - Great Oak Circle (Low Pressure Sewer to Morstein Road)
 - Exhibit 11 - East Goshen Study Areas Map
 - Cost Opinion - Charter Chase (Low Pressure Sewer to Barkway Pump Station)
 - Cost Opinion - Charter Chase (Low Pressure Sewer to Hershey's Mill Pump Station)
 - Cost Opinion - Brookmont (Low Pressure Sewer to Pond View Lane)
 - Cost Opinion - Brookmont (Gravity Service + Grinder Pumps to Pond View Lane)
 - Cost Opinion - Goshen Downs (Gravity Service + Grinder Pumps to Hadleigh Drive)
 - Cost Opinion - Goshen Downs (Low Pressure Sewer to Hershey's Mill Pump Station)
 - Cost Opinion - Millstream Drive (Gravity Sewer to Tanglewood Drive)
 - Cost Opinion - Millstream Drive (Low Pressure Sewer to Tanglewood Drive)
 - Cost Opinion - Indian Hills (Gravity Service + Grinder Pumps to Line Road and Taylor Avenue)
 - Cost Opinion - Indian Hills (Low Pressure Sewer to Line Road)
 - Cost Opinion - Raewyck Drive (Low Pressure Sewer to Taylor Avenue)
 - Cost Opinion - Ivy Lane (Gravity Sewer to Rossmore Drive)
 - Cost Opinion - Ivy Lane (Low Pressure Sewer to Rossmore Drive)
 - Cost Opinion - Old Orchard Lane (Gravity Sewer + Grinder Pumps to Shandon Place)
 - Cost Opinion - Old Orchard Lane (Low Pressure Sewer to Shandon Place)
 - Cost Opinion - Joshua Drive (Low Pressure Sewer to Culbertson Circle)
 - Cost Opinion - Great Oak Circle (Low Pressure Sewer to Morstein Road)

cc: Derek Davis, Township Manager
Dave Ware, Finance Director
Mike Lynch, Supervisor

U:\Accounts\EGMAU\EGMAU21001 - 2021 General Services\DOC PREP\Sewer Extension Study\Sewer Extension Study Letter:

Exhibit 1 (Charter Chase):
LPS to Barkway Pump
Station and LPS to
Hershey's Mill Pump Station

Low Pressure Sewer to Sanitary
Sewer at Hadleigh Drive
(Alternative 2)

Low Pressure Sewer

Barkway Pump Station

Gravity Sewer to
Barkway Pump Station
(Alternative 1)

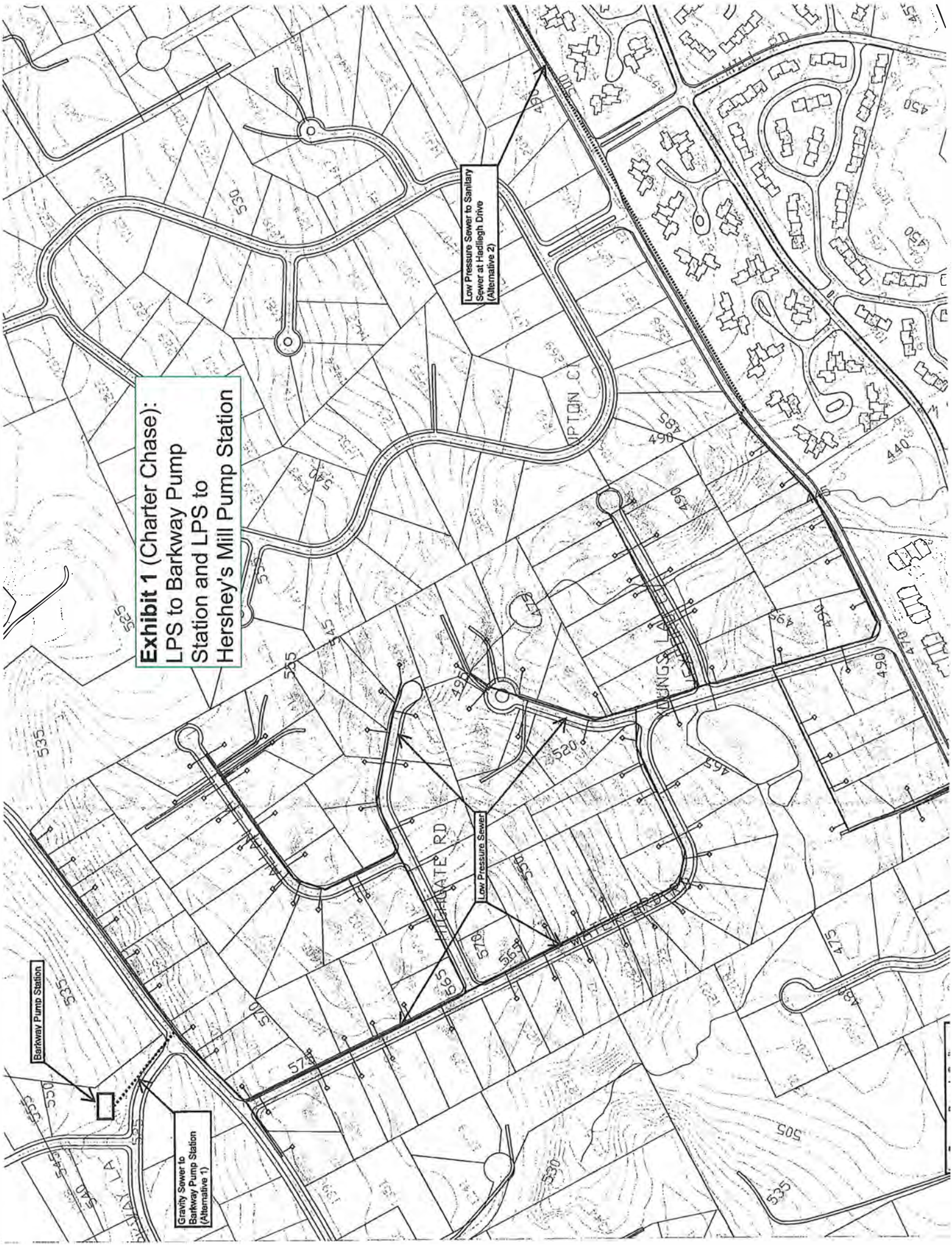
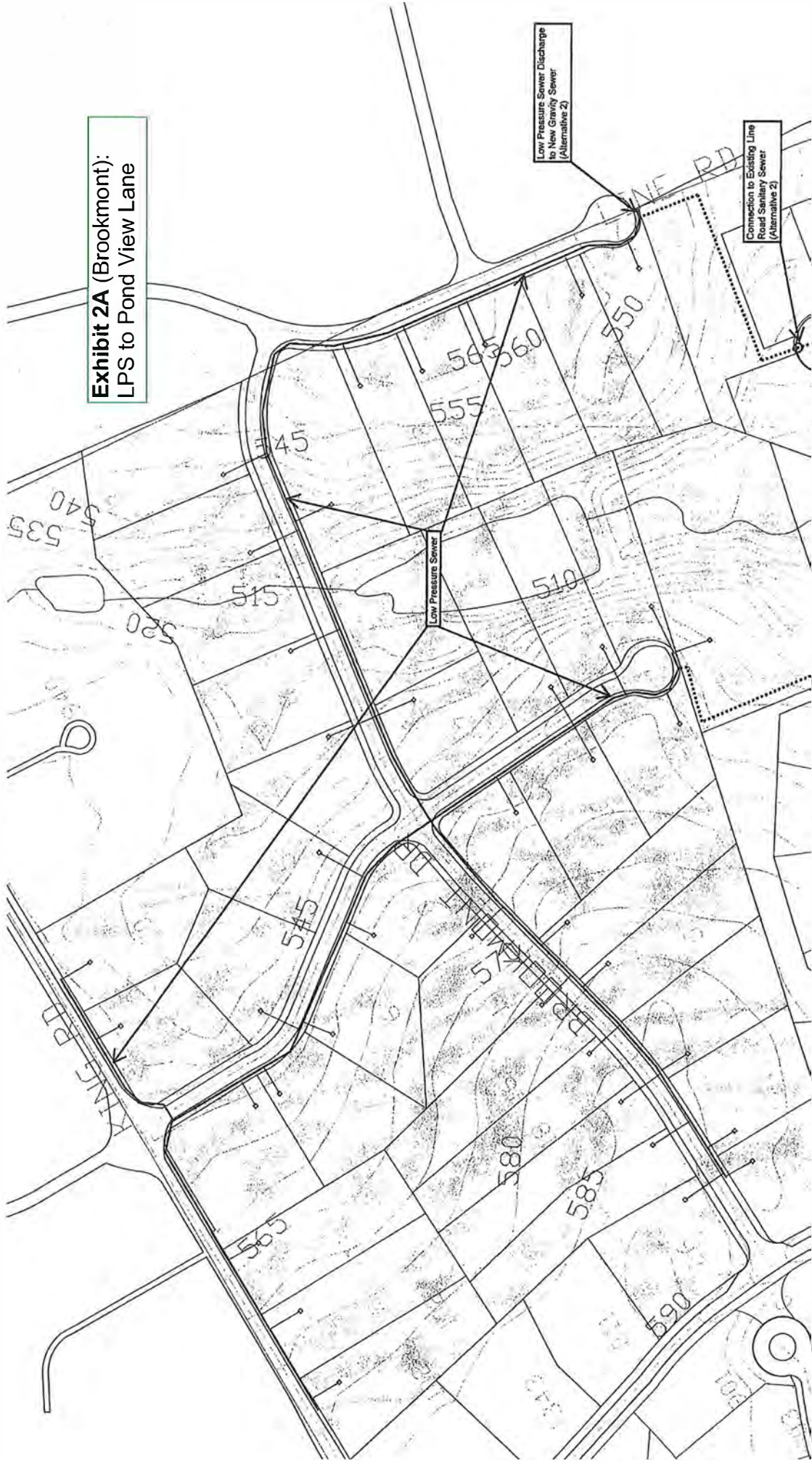


Exhibit 2A (Brookmont):
LPS to Pond View Lane



Low Pressure Sewer
from 950 King Road

Grinder Pump Connections

Exhibit 2B (Brookmont):
Gravity + Grinder Pumps to
Pond View Lane

Gravity Sewer Existing
Sewer in Line Road

Grinder Pump Connections

Connection to Existing Line
Road Sanitary Sewer

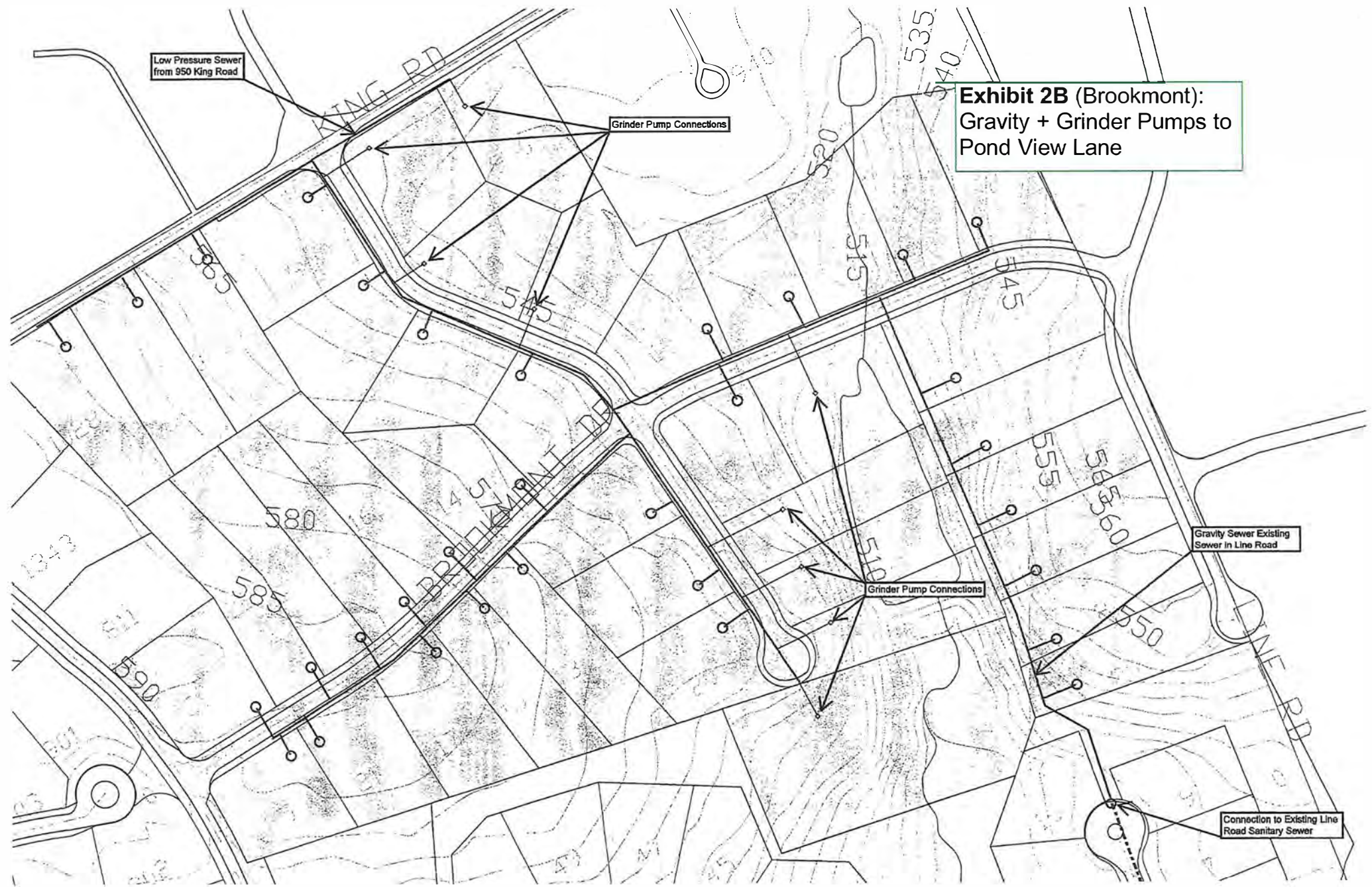


Exhibit 3A (Goshen Downs):
Gravity + LPS to Hadleigh Drive



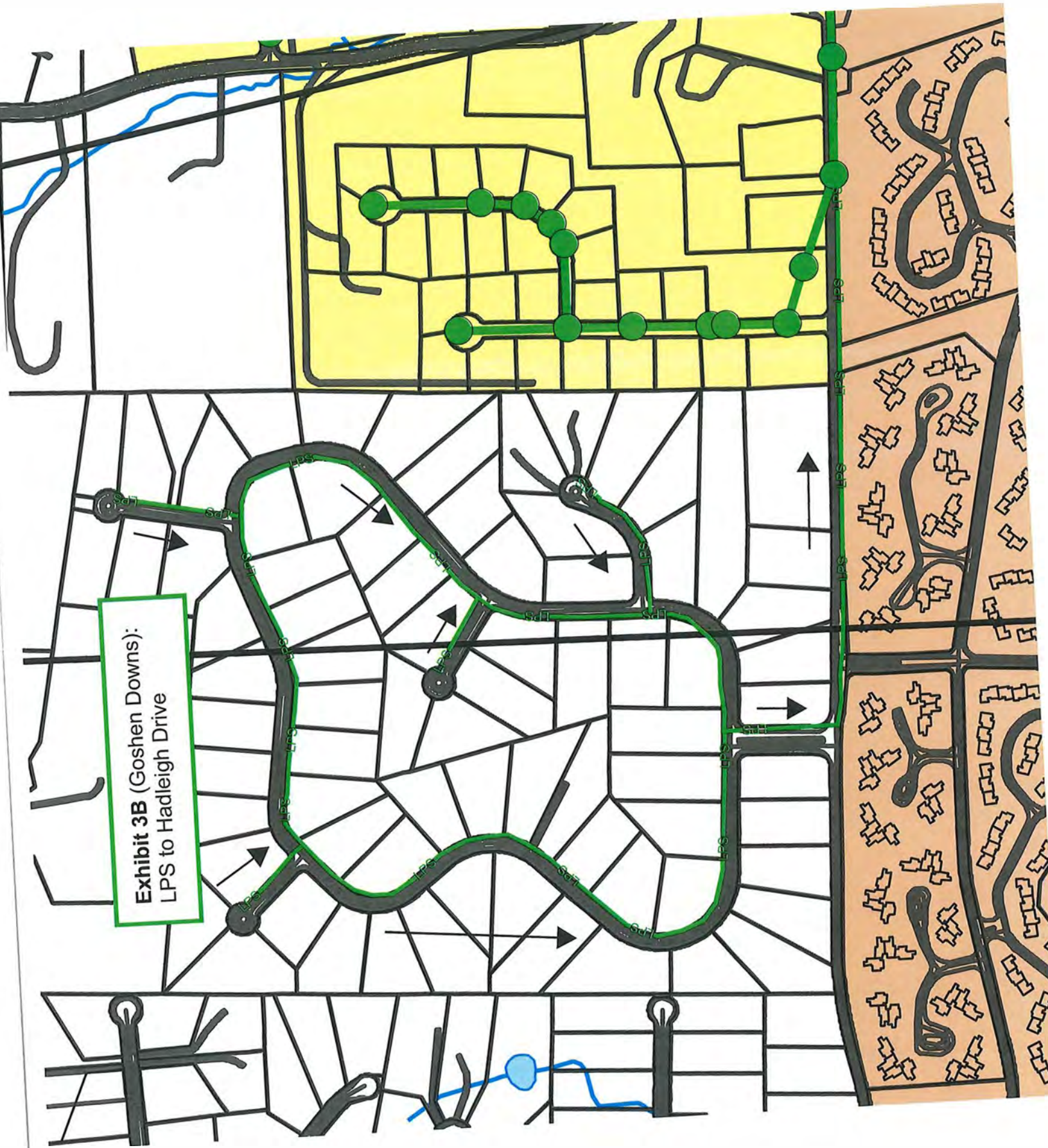


Exhibit 3B (Goshen Downs):
LPS to Hadleigh Drive

Exhibit 4A (Millstream Drive):
Gravity Sewer to Tanglewood Drive

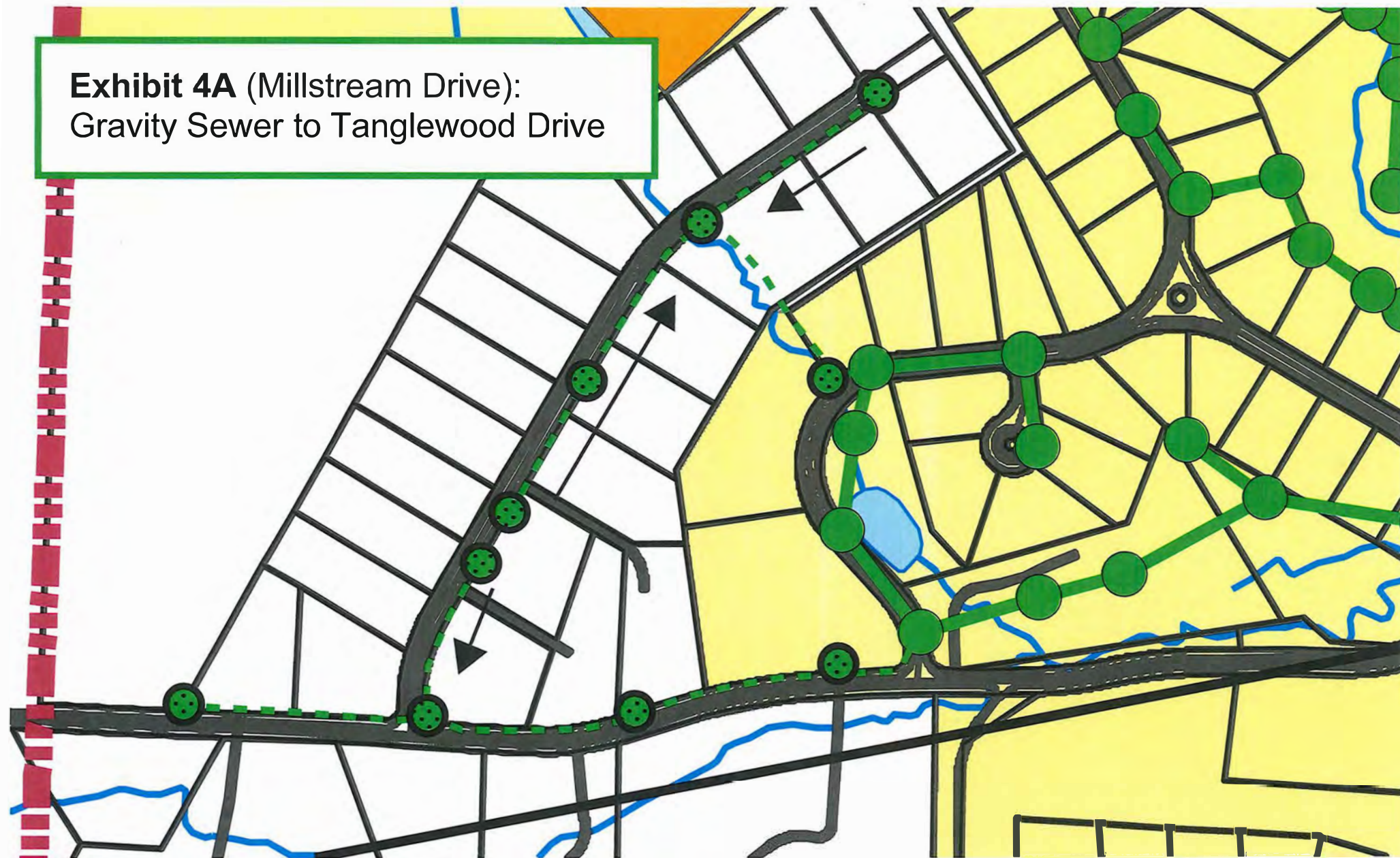


Exhibit 4B (Millstream Drive):
LPS to Tanglewood Drive



Exhibit 5A (Indian Hills):
Gravity + Grinder Pumps to
Line Road and Taylor Avenue.

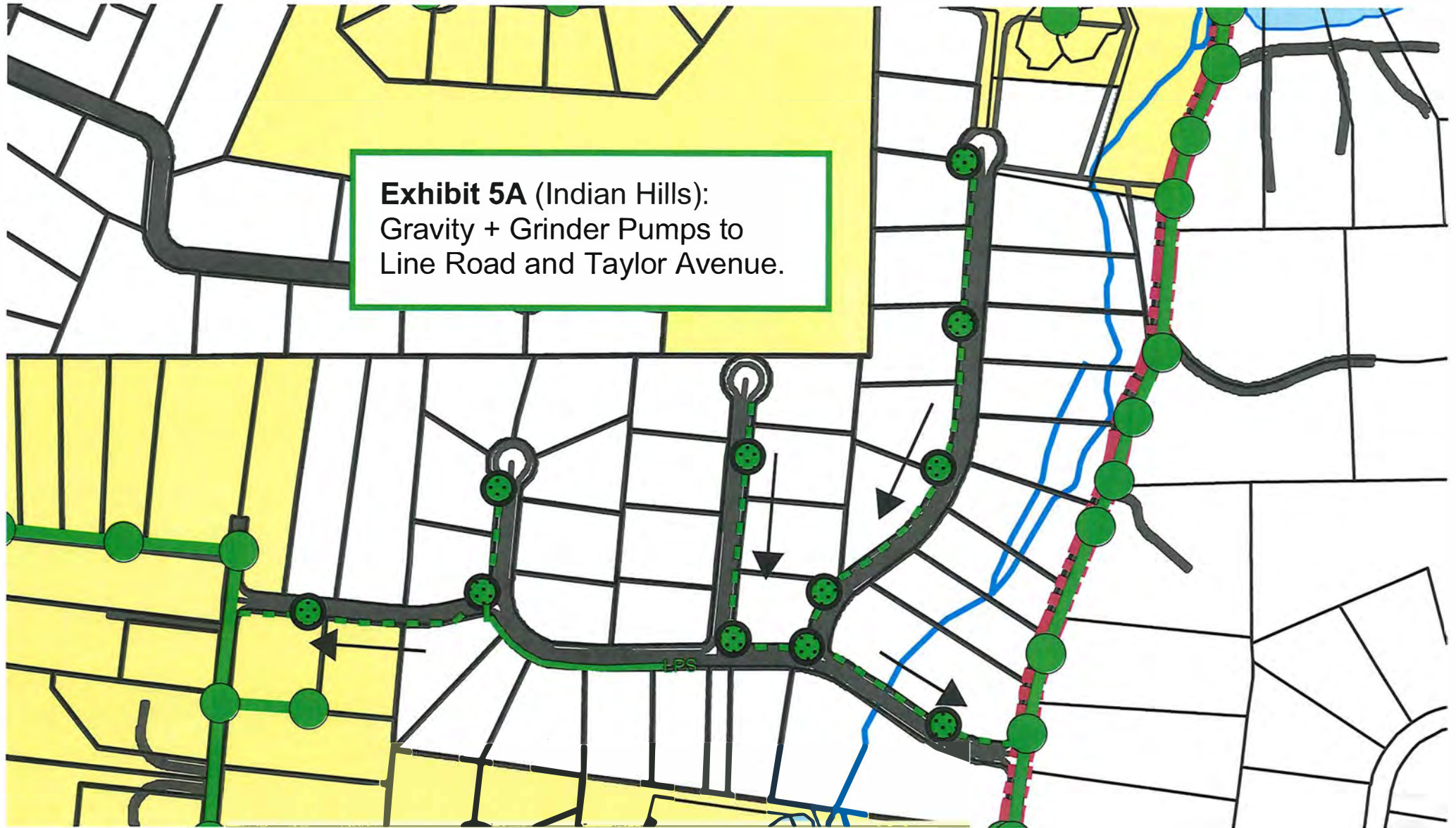


Exhibit 5B (Indian Hills):
LPS to Line Road



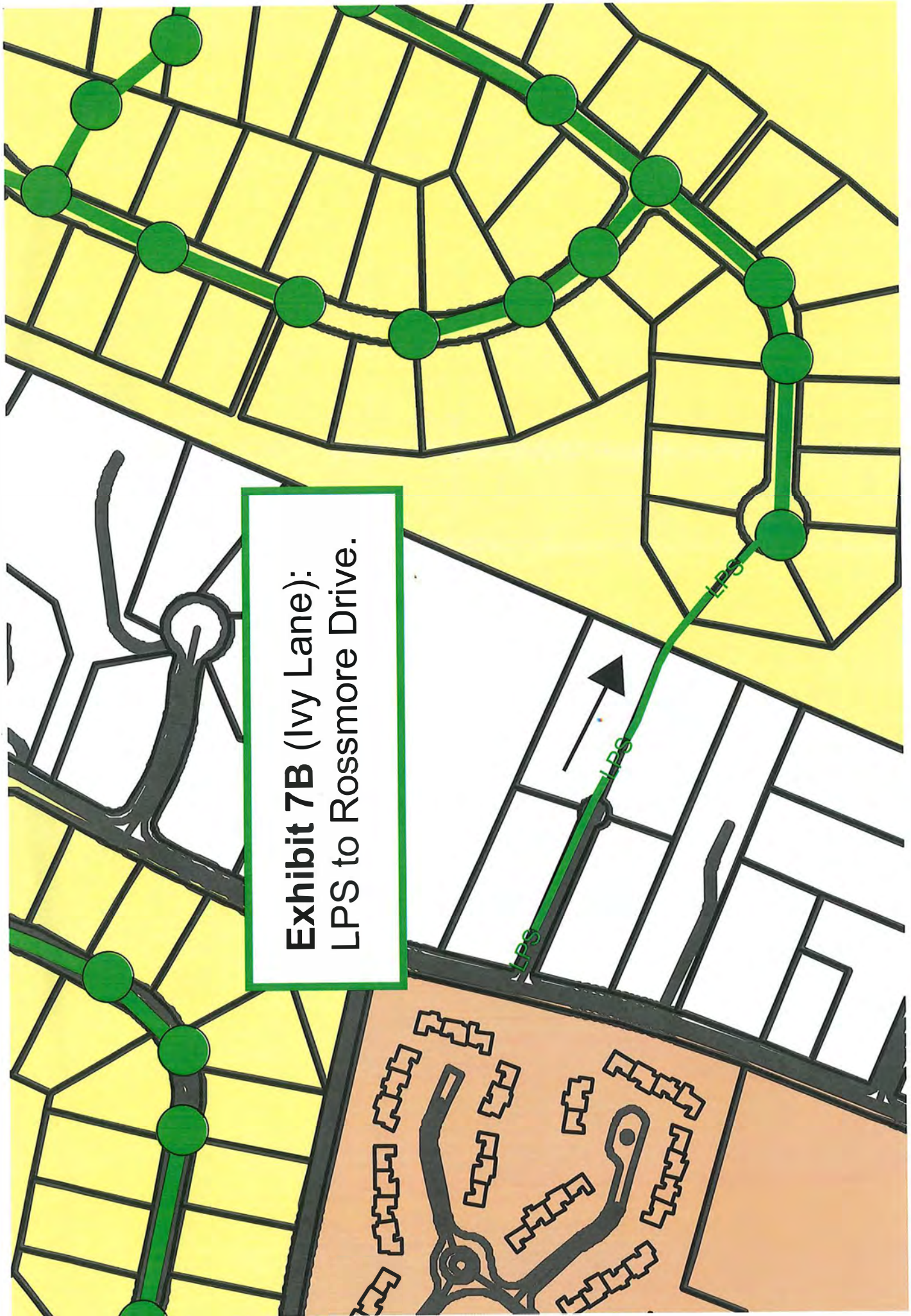


**Exhibit 6 (Raewyck Drive):
LPS to Taylor Avenue**

A technical map showing a gravity sewer system. The map features a grid of streets and property lines. A central road, Ivy Lane, is highlighted in a light yellow color. A network of green lines represents the sewer pipes, with green circles indicating manholes. The system starts from the left side of the map, moves south along Ivy Lane, and then turns east towards Rossmore Drive. A dashed green line with an arrow indicates the flow direction. A text box in the center provides the title for the exhibit.

**Exhibit 7A (Ivy Lane): Gravity
Sewer to Rossmore Drive.**

Exhibit 7B (Ivy Lane):
LPS to Rossmore Drive.



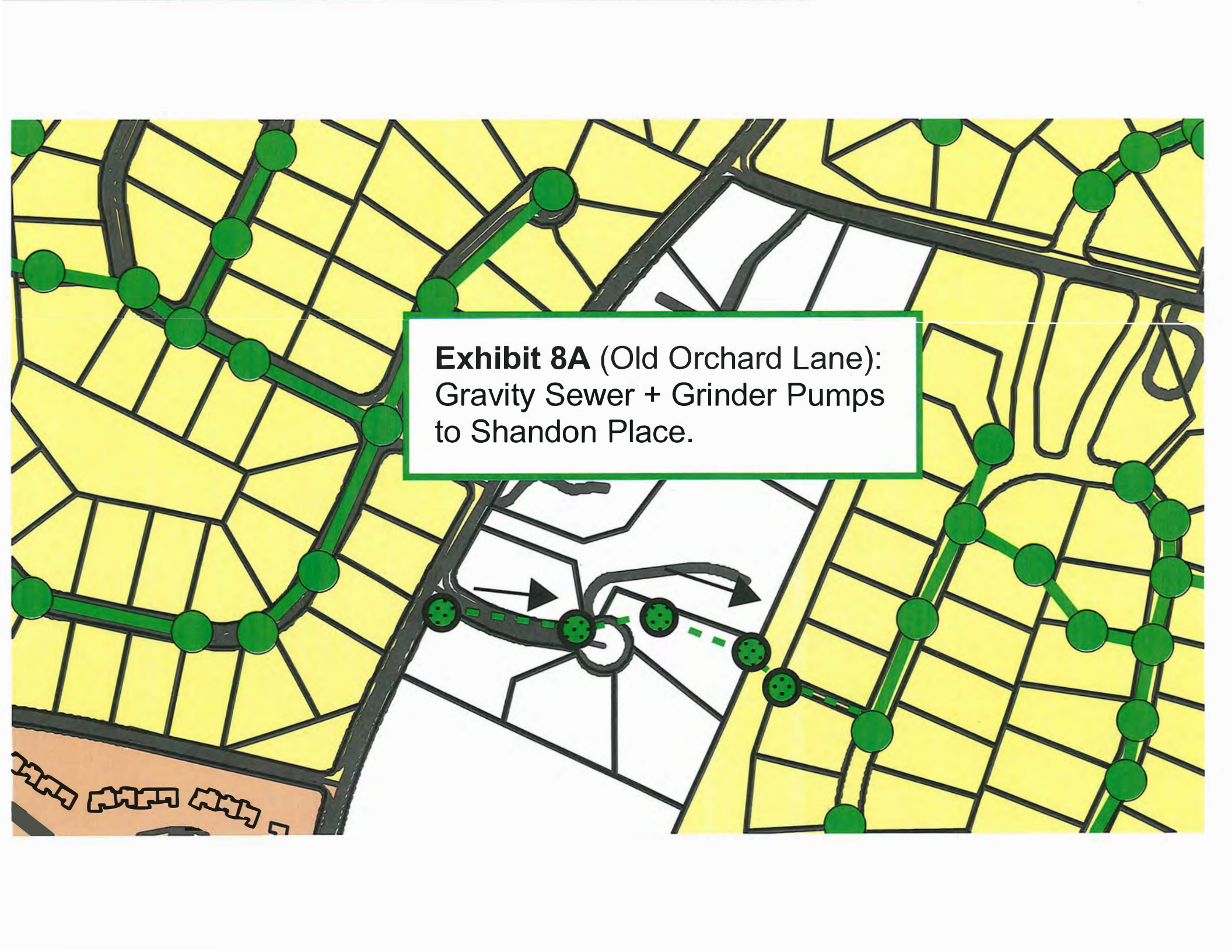


Exhibit 8A (Old Orchard Lane):
Gravity Sewer + Grinder Pumps
to Shandon Place.



Exhibit 8B (Old Orchard Lane):
LPS to Shandon Place.

**Exhibit 9 (Joshua Drive):
LPS to Culbertson Circle**

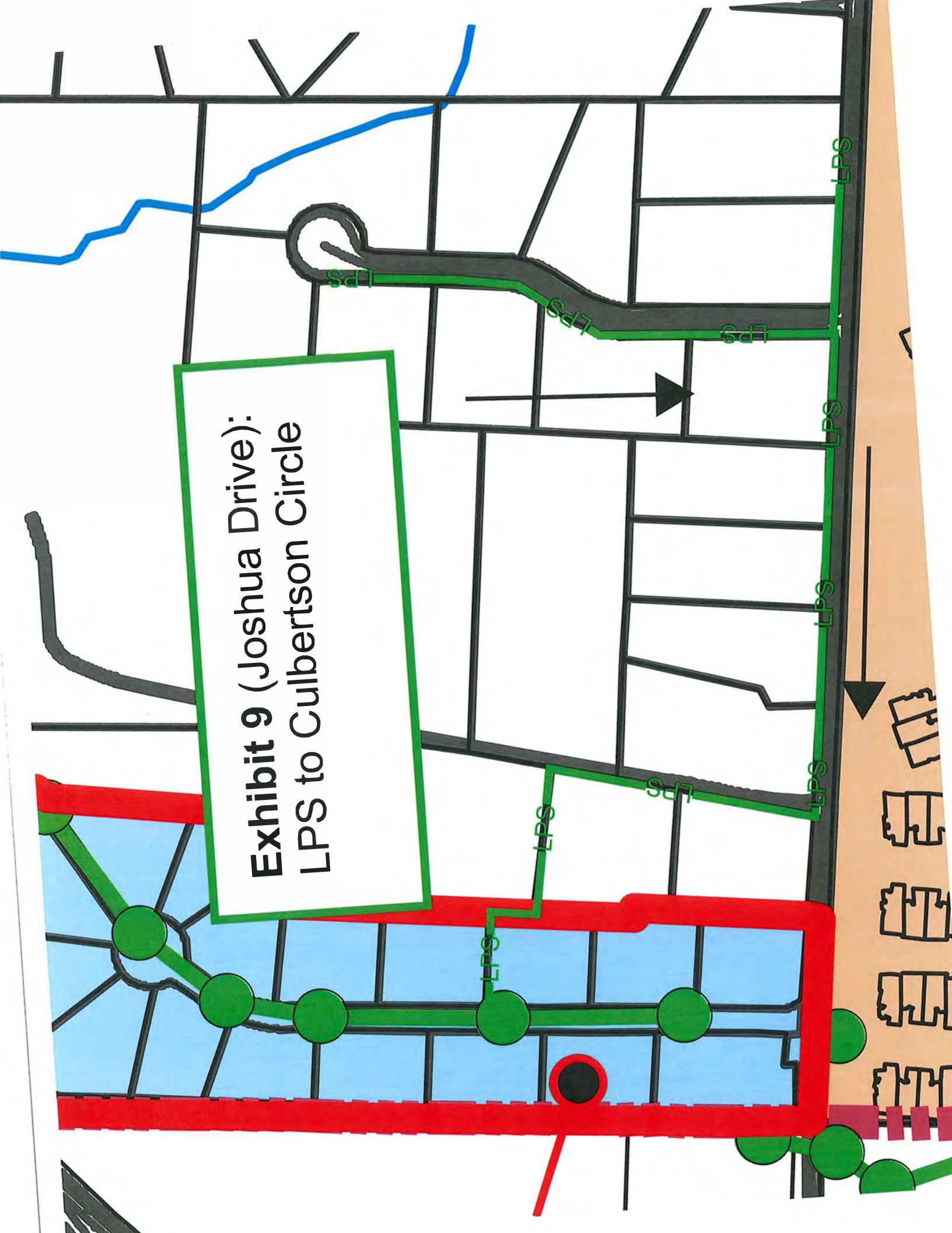
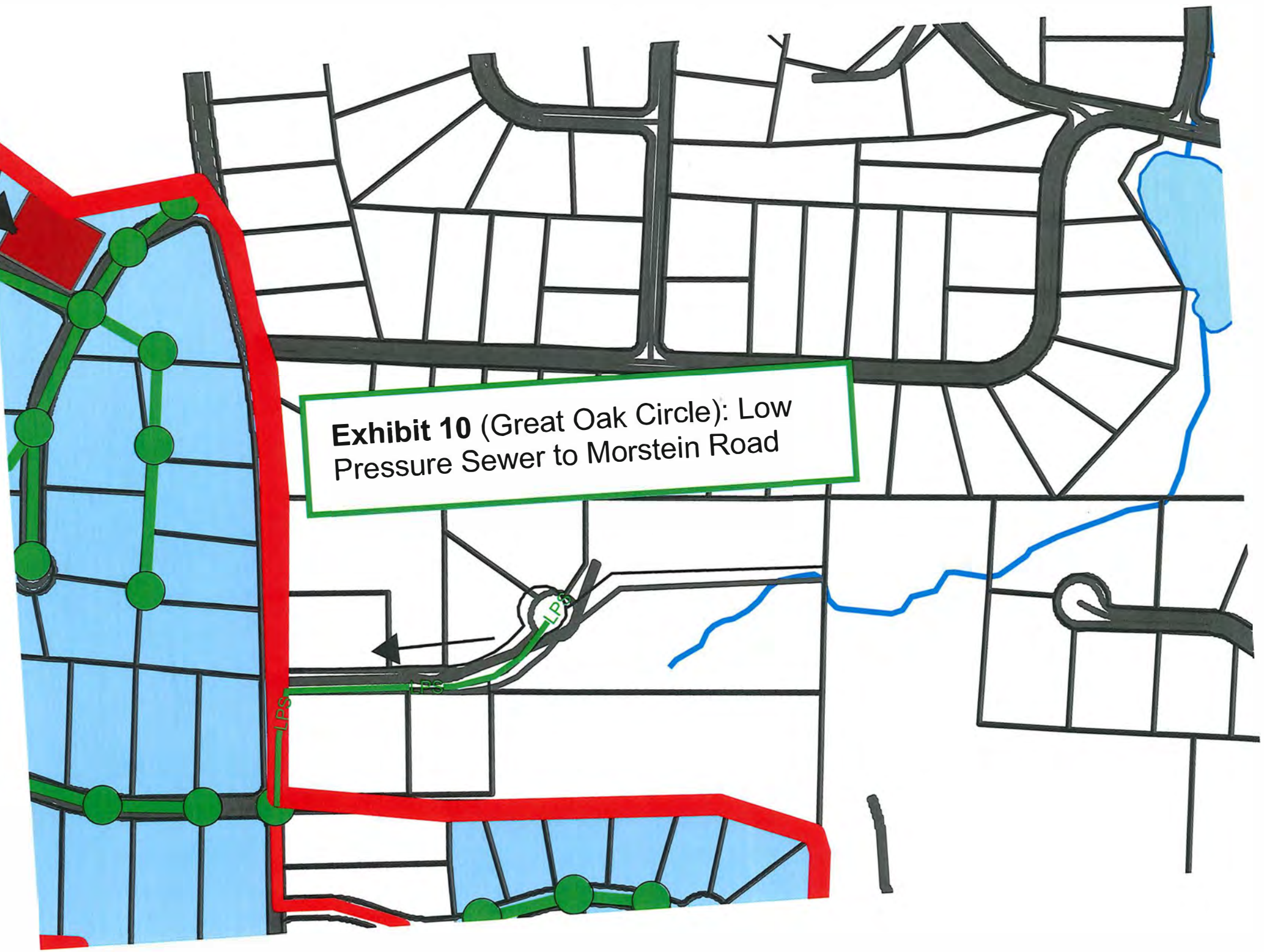


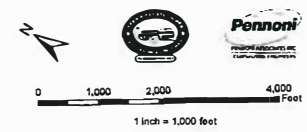
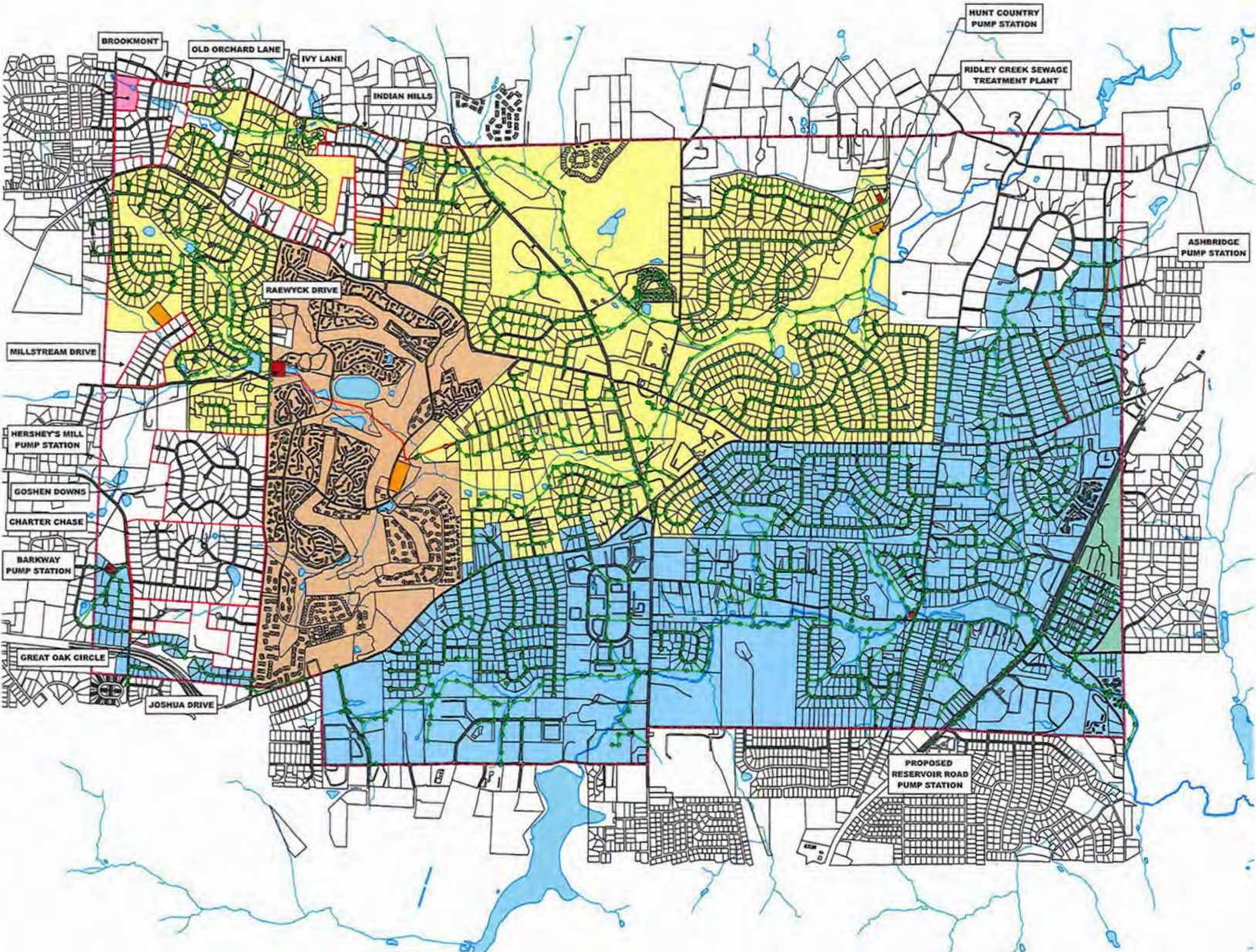
Exhibit 10 (Great Oak Circle): Low Pressure Sewer to Morstein Road



EAST GOSHEN STUDY AREAS MAP

Legend

- Study Areas
- PUMP STATION
- SEWAGE TREATMENT PLANT
- SANITARY MANHOLES
- PERMANENT METERS
- PORTABLE METERS (2020)
- SANITARY SEWER
- FORCEMAIN
- TOWNSHIP BOUNDARY
- Parcels
- PONDS & LAKES
- RIVERS
- EAST WHITELAND SERVICE AREA
- HERSHEY'S MILL SERVICE AREA
- RIDLEY CREEK SERVICE AREA
- WEST GOSHEN SERVICE AREA
- WESTTOWN SERVICE AREA



Cost Opinion - Charter Chase
(Low Pressure Sewer to Barkway Pump Station)

Cost Item	Unit	Unit Price	Quantity	Cost
Low Pressure Sewer	LF	\$125.00	9300	\$ 1,162,500
Driveway Repaving	SY	\$80.00	408	\$ 32,640
Roadway Restoration (5" Base Course, 1.5" Wearing Course)	SY	\$100.00	5800	\$ 580,000
Lawn Restoration	LS	\$5,000.00	1	\$ 5,000
Erosion and Sediment Control	LS	\$5,000.00	1	\$ 5,000
Temporary Facilities/Traffic Control	LS	\$10,000.00	1	\$ 10,000
Tree Removal and Site Preparation	LS	\$15,000.00	1	\$ 15,000
Stream Crossing	LS	\$20,000.00	2	\$ 40,000
Survey and Layout	LS	\$10,000.00	1	\$ 10,000
Grinder Pump and Installation	EA	\$15,000.00	98	\$ 1,470,000
Subtotal Construction Cost				\$ 3,330,140
Mobilization/Demobilization	%	6%		\$ 200,000
Contingency	%	20%		\$ 667,000
Construction Cost Opinion				\$ 4,197,140
Legal/Administrative/Engineering	%	10%		\$ 420,000
Opinion of Probable Project Cost for Public Improvements				\$ 4,617,140
Cost of Public Improvements per Property			98	\$ 47,200.00
Opinion of Probable Project Cost for each Property Owner				\$ 48,000.00

Cost Opinion - Charter Chase
(Low Pressure Sewer to Hershey's Mill Pump Station)

Cost Item	Unit	Unit Price	Quantity	Cost
Low Pressure Sewer	LF	\$125.00	11300	\$ 1,412,500
Driveway Repaving	SY	\$80.00	440	\$ 35,200
Roadway Restoration (5" Base Course, 1.5" Wearing Course)	SY	\$100.00	7133	\$ 713,333
Lawn Restoration	LS	\$5,000.00	1	\$ 5,000
Erosion and Sediment Control	LS	\$5,000.00	1	\$ 5,000
Temporary Facilities/Traffic Control	LS	\$10,000.00	1	\$ 10,000
Tree Removal and Site Preparation	LS	\$15,000.00	1	\$ 15,000
Stream Crossing	LS	\$20,000.00	3	\$ 60,000
Survey and Layout	LS	\$10,000.00	1	\$ 10,000
Grinder Pump	EA	\$15,000.00	98	\$ 1,470,000
Subtotal Construction Cost				\$ 3,736,033
Mobilization/Demobilization	%	6%		\$ 225,000
Contingency	%	20%		\$ 748,000
Construction Cost Opinion				\$ 4,709,033
Legal/Administrative/Engineering	%	10%		\$ 471,000
Opinion of Probable Project Cost for Public Improvements				\$ 5,180,033
Cost of Public Improvements per Property			98	\$ 52,900.00
Opinion of Probable Project Cost for each Property Owner				\$ 53,000.00

Cost Opinion - Brookmont
(Low Pressure Sewer to Pond View Lane)

Cost Item	Unit	Unit Price	Quantity	Cost
Low Pressure Sewer	LF	\$125.00	4825	\$ 603,125
Driveway Repaving	SY	\$80.00	184	\$ 14,720
Roadway Restoration (5" Base Course, 1.5" Wearing Course)	SY	\$100.00	3217	\$ 321,667
Lawn Restoration	LS	\$5,000.00	1	\$ 5,000
Erosion and Sediment Control	LS	\$5,000.00	1	\$ 5,000
Temporary Facilities/Traffic Control	LS	\$10,000.00	1	\$ 10,000
Tree Removal and Site Preparation	LS	\$15,000.00	1	\$ 15,000
Stream Crossing	LS	\$20,000.00	1	\$ 20,000
Survey and Layout	LS	\$10,000.00	1	\$ 10,000
Grinder Pump and Installation	EA	\$15,000.00	41	\$ 615,000
Subtotal Construction Cost				\$ 1,619,512
Mobilization/Demobilization	%	6%		\$ 98,000
Contingency	%	20%		\$ 324,000
Construction Cost Opinion				\$ 2,041,512
Legal/Administrative/Engineering	%	10%		\$ 205,000
Opinion of Probable Project Cost for Public Improvements				\$ 2,246,512
Cost of Public Improvements per Property			41	\$ 54,800.00
Opinion of Probable Project Cost for each Property Owner				\$ 55,000.00

Cost Opinion - Brookmont
(Gravity Service + Grinder Pumps to Pond View Lane)

Cost Item	Unit	Unit Price	Quantity	Cost
(Gravity Sewer) Install 10" Sanitary Pipe	LF	\$250.00	4349	\$ 1,087,250
Roadway Restoration (5" Base Course, 1.5" Wearing Course)	SY	\$100.00	3217	\$ 321,667
Driveway Repaving	SY	\$80.00	184	\$ 14,720
Survey and Layout	LS	\$10,000.00	1	\$ 10,000
Lawn Restoration	LS	\$5,000.00	1	\$ 5,000
Erosion and Sediment Control	LS	\$5,000.00	1	\$ 5,000
Temporary Facilities/Traffic Control	LS	\$10,000.00	1	\$ 10,000
Stream Crossing	LS	\$20,000.00	1	\$ 20,000
Tree Removal and Site Preparation	LS	\$15,000.00	1	\$ 15,000
Manhole	EA	\$7,000.00	15	\$ 105,000
Grinder Pump	EA	\$15,000.00	9	\$ 135,000
Lateral Installation	EA	\$3,500.00	32	\$ 112,000
Subtotal Construction Cost				\$ 1,840,637
Mobilization/Demobilization	%	6%		\$ 111,000
Contingency	%	20%		\$ 369,000
Construction Cost Opinion				\$ 2,320,637
Legal/Administrative/Engineering	%	10%		\$ 233,000
Opinion of Probable Project Cost for Public Improvements				\$ 2,553,637
Cost of Public Improvements per Property			41	\$ 62,300.00
Opinion of Probable Project Cost for each Property Owner				\$ 63,000.00

**Cost Opinion - Goshen Downs
(Gravity Service + Grinder Pumps to Hadleigh Drive)**

Cost Item	Unit	Unit Price	Quantity	Cost
Low Pressure Sewer	LF	\$125.00	3618	\$ 452,250
Gravity Sewer - 10" Sanitary Pipe	LF	\$250.00	5386	\$ 1,346,500
Driveway Repaving	SY	\$80.00	336	\$ 26,880
Roadway Restoration (5" Base Course, 1.5" Wearing Course)	SY	\$100.00	4363	\$ 436,333
Survey and Layout	LS	\$10,000.00	1	\$ 10,000
Lawn Restoration	LS	\$5,000.00	1	\$ 5,000
Erosion and Sediment Control	LS	\$5,000.00	1	\$ 5,000
Temporary Facilities/Traffic Control	LS	\$10,000.00	1	\$ 10,000
Tree Removal and Site Preparation	LS	\$15,000.00	1	\$ 15,000
Grinder Pump and Installation	EA	\$15,000.00	31	\$ 465,000
Lateral Installation	EA	\$3,500.00	45	\$ 157,500
Manhole	EA	\$7,000.00	16	\$ 112,000
Subtotal Construction Cost				\$ 3,041,463
Mobilization/Demobilization	%	6%		\$ 183,000
Contingency	%	20%		\$ 609,000
Construction Cost Opinion				\$ 3,833,463
Legal/Administrative/Engineering	%	10%		\$ 384,000
Opinion of Probable Project Cost for Public Improvements				\$ 4,217,463
Cost of Public Improvements per Property			76	\$ 55,500.00
Opinion of Probable Project Cost for each Property Owner				\$ 56,000.00

Cost Opinion - Goshen Downs
(Low Pressure Sewer to Hershey's Mill Pump Station)

Cost Item	Unit	Unit Price	Quantity	Cost
Low Pressure Sewer	LF	\$125.00	9089	\$ 1,136,125
Driveway Repaving	SY	\$80.00	336	\$ 26,880
Roadway Restoration (5" Base Course, 1.5" Wearing Course)	SY	\$100.00	6059	\$ 605,933
Lawn Restoration	LS	\$5,000.00	1	\$ 5,000
Erosion and Sediment Control	LS	\$5,000.00	1	\$ 5,000
Temporary Facilities/Traffic Control	LS	\$10,000.00	1	\$ 10,000
Tree Removal and Site Preparation	LS	\$15,000.00	1	\$ 15,000
Survey and Layout	LS	\$10,000.00	1	\$ 10,000
Grinder Pump and Installation	EA	\$15,000.00	76	\$ 1,140,000
Subtotal Construction Cost				\$ 2,953,938
Mobilization/Demobilization	%	6%		\$ 178,000
Contingency	%	20%		\$ 591,000
Construction Cost Opinion				\$ 3,722,938
Legal/Administrative/Engineering	%	10%		\$ 373,000
Opinion of Probable Project Cost for Public Improvements				\$ 4,095,938
Cost of Public Improvements per Property			76	\$ 53,900.00
Opinion of Probable Project Cost for each Property Owner				\$ 54,000.00

**Cost Opinion - Millstream Drive
(Gravity Sewer to Tanglewood Drive)**

Cost Item	Unit	Unit Price	Quantity	Cost
Gravity Sewer - 10" Sanitary Pipe	LF	\$250.00	3560	\$ 890,000
Driveway Repaving	SY	\$80.00	88	\$ 7,040
Roadway Restoration (5" Base Course, 1.5" Wearing Course)	SY	\$100.00	2040	\$ 204,000
Lawn Restoration	LS	\$5,000.00	1	\$ 5,000
Erosion and Sediment Control	LS	\$5,000.00	1	\$ 5,000
Temporary Facilities/Traffic Control	LS	\$10,000.00	1	\$ 10,000
Stream Crossing	LS	\$20,000.00	1	\$ 20,000
Tree Removal and Site Preparation	LS	\$15,000.00	1	\$ 15,000
Survey and Layout	LS	\$10,000.00	1	\$ 10,000
Lateral Installation	EA	\$3,500.00	24	\$ 84,000
Manhole	EA	\$7,000.00	10	\$ 70,000
Subtotal Construction Cost				\$ 1,320,040
Mobilization/Demobilization	%	6%		\$ 80,000
Contingency	%	20%		\$ 265,000
Construction Cost Opinion				\$ 1,665,040
Legal/Administrative/Engineering	%	10%		\$ 167,000
Opinion of Probable Project Cost for Public Improvements				\$ 1,832,040
Cost of Public Improvements per Property			24	\$ 76,400
Opinion of Probable Project Cost for each Property Owner				\$ 77,000.00

**Cost Opinion - Millstream Drive
(Low Pressure Sewer to Tanglewood Drive)**

Cost Item	Unit	Unit Price	Quantity	Cost
Low Pressure Sewer	LF	\$125.00	3110	\$ 388,750
Driveway Repaving	SY	\$80.00	88	\$ 7,040
Roadway Restoration (5" Base Course, 1.5" Wearing Course)	SY	\$100.00	2073	\$ 207,333
Lawn Restoration	LS	\$5,000.00	1	\$ 5,000
Erosion and Sediment Control	LS	\$5,000.00	1	\$ 5,000
Stream Crossing	LS	\$20,000.00	1	\$ 20,000
Temporary Facilities/Traffic Control	LS	\$10,000.00	1	\$ 10,000
Tree Removal and Site Preparation	LS	\$15,000.00	1	\$ 15,000
Survey and Layout	LS	\$10,000.00	1	\$ 10,000
Grinder Pump and Installation	EA	\$15,000.00	24	\$ 360,000
Subtotal Construction Cost				\$ 1,028,123
Mobilization/Demobilization	%	6%		\$ 62,000
Contingency	%	20%		\$ 206,000
Construction Cost Opinion				\$ 1,296,123
Legal/Administrative/Engineering	%	10%		\$ 130,000
Opinion of Probable Project Cost for Public Improvements				\$ 1,426,123
Cost of Public Improvements per Property			24	\$ 59,500
Opinion of Probable Project Cost for each Property Owner				\$ 60,000.00

Cost Opinion - Indian Hills
(Gravity Service + Grinder Pumps to Line Road and Taylor Avenue)

Cost Item	Unit	Unit Price	Quantity	Cost
Gravity Sewer - 10" Sanitary Pipe	LF	\$250.00	3320	\$ 830,000
Low Pressure Sewer	LF	\$125.00	500	\$ 62,500
Driveway Repaving	SY	\$80.00	168	\$ 13,440
Roadway Restoration (5" Base Course, 1.5" Wearing Course)	SY	\$100.00	2547	\$ 254,667
Lawn Restoration	LS	\$5,000.00	1	\$ 5,000
Erosion and Sediment Control	LS	\$5,000.00	1	\$ 5,000
Temporary Facilities/Traffic Control	LS	\$10,000.00	1	\$ 10,000
Tree Removal and Site Preparation	LS	\$15,000.00	1	\$ 15,000
Stream Crossing	LS	\$20,000.00	1	\$ 20,000
Survey and Layout	LS	\$10,000.00	1	\$ 10,000
Lateral Installation	EA	\$3,500.00	35	\$ 122,500
Manhole	EA	\$7,000.00	11	\$ 77,000
Grinder Pump and Installation	EA	\$15,000.00	6	\$ 90,000
Subtotal Construction Cost				\$ 1,515,107
Mobilization/Demobilization	%	6%		\$ 91,000
Contingency	%	20%		\$ 304,000
Construction Cost Opinion				\$ 1,910,107
Legal/Administrative/Engineering	%	10%		\$ 192,000
Opinion of Probable Project Cost for Public Improvements				\$ 2,102,107
Cost of Public Improvements per Property			41	\$ 51,300
Opinion of Probable Project Cost for each Property Owner				\$ 52,000.00

**Cost Opinion - Indian Hills
(Low Pressure Sewer to Line Road)**

Cost Item	Unit	Unit Price	Quantity	Cost
Low Pressure Sewer	LF	\$125.00	4070	\$ 508,750
Driveway Repaving	SY	\$80.00	168	\$ 13,440
Roadway Restoration (5" Base Course, 1.5" Wearing Course)	SY	\$100.00	2713	\$ 271,333
Lawn Restoration	LS	\$5,000.00	1	\$ 5,000
Erosion and Sediment Control	LS	\$5,000.00	1	\$ 5,000
Temporary Facilities/Traffic Control	LS	\$10,000.00	1	\$ 10,000
Tree Removal and Site Preparation	LS	\$15,000.00	1	\$ 15,000
Survey and Layout	LS	\$10,000.00	1	\$ 10,000
Grinder Pump Station	EA	\$15,000.00	41	\$ 615,000
Subtotal Construction Cost				\$ 1,453,523
Mobilization/Demobilization	%	6%		\$ 88,000
Contingency	%	20%		\$ 291,000
Construction Cost Opinion				\$ 1,832,523
Legal/Administrative/Engineering	%	10%		\$ 184,000
Opinion of Probable Project Cost for Public Improvements				\$ 2,016,523
Cost of Public Improvements per Property			41	\$ 49,200
Opinion of Probable Project Cost for each Property Owner				\$ 50,000.00

**Cost Opinion - Raewyck Drive
(Low Pressure Sewer to Taylor Avenue)**

Cost Item	Unit	Unit Price	Quantity	Cost
Low Pressure Sewer	LF	\$125.00	2100	\$ 262,500
Driveway Repaving	SY	\$80.00	48	\$ 3,840
Roadway Restoration (5" Base Course, 1.5" Wearing Course)	SY	\$100.00	933	\$ 93,333
Lawn Restoration	LS	\$5,000.00	1	\$ 5,000
Erosion and Sediment Control	LS	\$5,000.00	1	\$ 5,000
Temporary Facilities/Traffic Control	LS	\$10,000.00	1	\$ 10,000
Tree Removal and Site Preparation	LS	\$15,000.00	1	\$ 15,000
Survey and Layout	LS	\$10,000.00	1	\$ 10,000
Grinder Pump and Installation	EA	\$15,000.00	15	\$ 225,000
Subtotal Construction Cost				\$ 629,673
Mobilization/Demobilization	%	6%		\$ 38,000
Contingency	%	20%		\$ 126,000
Construction Cost Opinion				\$ 793,673
Legal/Administrative/Engineering	%	15%		\$ 120,000
Opinion of Probable Project Cost for Public Improvements				\$ 913,673
Cost of Public Improvements per Property			15	\$ 60,912
Opinion of Probable Project Cost for each Property Owner				\$ 61,000.00

**Cost Opinion - Ivy Lane
(Gravity Sewer to Rossmore Drive)**

Cost Item	Unit	Unit Price	Quantity	Cost
Gravity Sewer - 10" Sanitary Pipe	LF	\$250.00	930	\$ 232,500
Driveway Repaving	SY	\$80.00	32	\$ 2,560
Roadway Restoration (5" Base Course, 1.5" Wearing Course)	SY	\$100.00	227	\$ 22,667
Lawn Restoration	LS	\$5,000.00	1	\$ 5,000
Erosion and Sediment Control	LS	\$5,000.00	1	\$ 5,000
Temporary Facilities/Traffic Control	LS	\$10,000.00	1	\$ 10,000
Stream Crossing	LS	\$20,000.00	1	\$ 20,000
Tree Removal and Site Preparation	LS	\$15,000.00	1	\$ 15,000
Survey and Layout	LS	\$10,000.00	1	\$ 10,000
Lateral Installation	EA	\$3,500.00	4	\$ 14,000
Manhole	EA	\$7,000.00	4	\$ 28,000
Subtotal Construction Cost				\$ 364,727
Mobilization/Demobilization	%	6%		\$ 22,000
Contingency	%	20%		\$ 73,000
Construction Cost Opinion				\$ 459,727
Legal/Administrative/Engineering	%	15%		\$ 69,000
Opinion of Probable Project Cost for Public Improvements				\$ 528,727
Cost of Public Improvements per Property			4	\$ 132,200
Opinion of Probable Project Cost for each Property Owner				\$ 133,000.00

**Cost Opinion - Ivy Lane
(Low Pressure Sewer to Rossmore Drive)**

Cost Item	Unit	Unit Price	Quantity	Cost
Low Pressure Sewer	LF	\$125.00	930	\$ 116,250
Driveway Repaving	SY	\$80.00	32	\$ 2,560
Roadway Restoration (5" Base Course, 1.5" Wearing Course)	SY	\$100.00	227	\$ 22,667
Lawn Restoration	LS	\$5,000.00	1	\$ 5,000
Erosion and Sediment Control	LS	\$5,000.00	1	\$ 5,000
Temporary Facilities/Traffic Control	LS	\$10,000.00	1	\$ 10,000
Tree Removal and Site Preparation	LS	\$15,000.00	1	\$ 15,000
Survey and Layout	LS	\$10,000.00	1	\$ 10,000
Grinder Pump and Installation	EA	\$15,000.00	4	\$ 60,000
Subtotal Construction Cost				\$ 246,477
Mobilization/Demobilization	%	6%		\$ 15,000
Contingency	%	20%		\$ 50,000
Construction Cost Opinion				\$ 311,477
Legal/Administrative/Engineering	%	15%		\$ 47,000
Opinion of Probable Project Cost for Public Improvements				\$ 358,477
Cost of Public Improvements per Property			4	\$ 89,619
Opinion of Probable Project Cost for each Property Owner				\$ 90,000.00

**Cost Opinion - Old Orchard Lane
(Gravity Service + Grinder Pumps to Shandon Place)**

Cost Item	Unit	Unit Price	Quantity	Cost
Gravity Sewer - 10" Sanitary Pipe	LF	\$250.00	1000	\$ 250,000
Driveway Repaving	SY	\$80.00	24	\$ 1,920
Roadway Restoration (5" Base Course, 1.5" Wearing Course)	SY	\$100.00	247	\$ 24,667
Lawn Restoration	LS	\$5,000.00	1	\$ 5,000
Erosion and Sediment Control	LS	\$5,000.00	1	\$ 5,000
Temporary Facilities/Traffic Control	LS	\$10,000.00	1	\$ 10,000
Tree Removal and Site Preparation	LS	\$15,000.00	1	\$ 15,000
Stream Crossing	LS	\$20,000.00	1	\$ 20,000
Survey and Layout	LS	\$10,000.00	1	\$ 10,000
Lateral Installation	EA	\$3,500.00	5	\$ 17,500
Manhole	EA	\$7,000.00	5	\$ 35,000
Grinder Pump and Installation	EA	\$15,000.00	2	\$ 30,000
Subtotal Construction Cost				\$ 424,087
Mobilization/Demobilization	%	6%		\$ 26,000
Contingency	%	20%		\$ 85,000
Construction Cost Opinion				\$ 535,087
Legal/Administrative/Engineering	%	15%		\$ 81,000
Opinion of Probable Project Cost for Public Improvements				\$ 616,087
Cost of Public Improvements per Property			7	\$ 88,100
Opinion of Probable Project Cost for each Property Owner				\$ 89,000.00

**Cost Opinion - Old Orchard Lane
(Low Pressure Sewer to Shandon Place)**

Cost Item	Unit	Unit Price	Quantity	Cost
Low Pressure Sewer	LF	\$125.00	1000	\$ 125,000
Driveway Repaving	SY	\$80.00	24	\$ 1,920
Roadway Restoration (5" Base Course, 1.5" Wearing Course)	SY	\$100.00	247	\$ 24,667
Lawn Restoration	LS	\$5,000.00	1	\$ 5,000
Erosion and Sediment Control	LS	\$5,000.00	1	\$ 5,000
Temporary Facilities/Traffic Control	LS	\$10,000.00	1	\$ 10,000
Tree Removal and Site Preparation	LS	\$15,000.00	1	\$ 15,000
Survey and Layout	LS	\$10,000.00	1	\$ 10,000
Grinder Pump and Installation	EA	\$15,000.00	7	\$ 105,000
Subtotal Construction Cost				\$ 301,587
Mobilization/Demobilization	%	6%		\$ 19,000
Contingency	%	20%		\$ 61,000
Construction Cost Opinion				\$ 381,587
Legal/Administrative/Engineering	%	15%		\$ 58,000
Opinion of Probable Project Cost for Public Improvements				\$ 439,587
Cost of Public Improvements per Property			7	\$ 62,798
Opinion of Probable Project Cost for each Property Owner				\$ 63,000.00

**Cost Opinion - Joshua Drive
(Low Pressure Sewer to Culbertson Circle)**

Cost Item	Unit	Unit Price	Quantity	Cost
Low Pressure Sewer	LF	\$125.00	2865	\$ 358,125
Driveway Repaving	SY	\$80.00	80	\$ 6,400
Roadway Restoration (5" Base Course, 1.5" Wearing Course)	SY	\$100.00	1533	\$ 153,333
Lawn Restoration	LS	\$5,000.00	1	\$ 5,000
Erosion and Sediment Control	LS	\$5,000.00	1	\$ 5,000
Temporary Facilities/Traffic Control	LS	\$10,000.00	1	\$ 10,000
Tree Removal and Site Preparation	LS	\$15,000.00	1	\$ 15,000
Survey and Layout	LS	\$10,000.00	1	\$ 10,000
Grinder Pump and Installation	EA	\$15,000.00	18	\$ 270,000
Subtotal Construction Cost				\$ 832,858
Mobilization/Demobilization	%	6%		\$ 50,000
Contingency	%	20%		\$ 167,000
Construction Cost Opinion				\$ 1,049,858
Legal/Administrative/Engineering	%	15%		\$ 158,000
Opinion of Probable Project Cost for Public Improvements				\$ 1,207,858
Cost of Public Improvements per Property			18	\$ 67,103
Opinion of Probable Project Cost for each Property Owner				\$ 68,000.00

**Cost Opinion - Great Oak Circle
(Low Pressure Sewer to Morstein Road)**

Cost Item	Unit	Unit Price	Quantity	Cost
Low Pressure Sewer	LF	\$125.00	1000	\$ 125,000
Driveway Repaving	SY	\$80.00	32	\$ 2,560
Roadway Restoration (5" Base Course, 1.5" Wearing Course)	SY	\$100.00	667	\$ 66,667
Lawn Restoration	LS	\$5,000.00	1	\$ 5,000
Erosion and Sediment Control	LS	\$5,000.00	1	\$ 5,000
Temporary Facilities/Traffic Control	LS	\$10,000.00	1	\$ 10,000
Tree Removal and Site Preparation	LS	\$15,000.00	1	\$ 15,000
Survey and Layout	LS	\$10,000.00	1	\$ 10,000
Grinder Pump and Installation	EA	\$15,000.00	8	\$ 120,000
Subtotal Construction Cost				\$ 359,227
Mobilization/Demobilization	%	6%		\$ 22,000
Contingency	%	20%		\$ 72,000
Construction Cost Opinion				\$ 453,227
Legal/Administrative/Engineering	%	15%		\$ 68,000
Opinion of Probable Project Cost for Public Improvements				\$ 521,227
Cost of Public Improvements per Property			8	\$ 65,153
Opinion of Probable Project Cost for each Property Owner				\$ 66,000.00

BOARD OF SUPERVISORS
EAST GOSHEN TOWNSHIP
CHESTER COUNTY
1580 PAOLI PIKE, WEST CHESTER, PA 19380-6199

FYI

October 28, 2021

Dear Property Owner:

The purpose of this letter is to inform you that the Township has received a Zoning Hearing Board application from Imperial Marble and Granite located at 1311 West Chester Pike, West Chester, PA 19380. The applicant is requesting dimensional relief from the sign ordinance regulating signs in the Community Commercial (C-1) zoning district. The applicant is also asking for a variance from the definition of "Sign" in the zoning ordinance.

The ordinance section subject to the requested relief is §240-6 Definitions (Sign), and §240-22P(4) requirements for wall signs.

Pursuant to Township policy, property owners within 1000 feet of the subject property are notified of Zoning Hearing Board application submissions and the meeting date when the application will be discussed.

This Zoning Hearing Board Application will be reviewed on:

- **November 3, 2021 - Planning Commission meeting (7:00 PM)**
- **November 16, 2021 - Board of Supervisors (7:00 PM)**
- **December 14, 2021 - Zoning Hearing (7:30 PM)**

Meetings and hearings are held at the Township Building, are open to the public, and **subject to change without further written notice by the Township**. The application is available for review at the Township building during normal business hours. Please give me a call at or email me at mgordon@eastgoshen.org if you have any questions or need additional information.

Sincerely,
Mark A. Gordon
Township Zoning Officer

Cc: All Township Authorities, Boards and Commissions

Want more information about the latest news in the Township and surrounding area? East Goshen Township and Chester County offer two valuable resources to stay informed about important local issues. East Goshen communicates information by email about all Township news through Constant Contact. To sign up, go to www.eastgoshen.org and click the "E-notification & Emergency Alert" button on the left side of the homepage. Chester County offers an emergency notification system called ReadyChesco, which notifies residents about public safety emergencies in the area via text, email and cell phone call. Signing up is a great way to keep you and your loved ones safe when disaster strikes. Visit www.readychesco.org to sign up today!

2021

FYI

Earn up to 6 PDH credits

Earn up to 3 Operator credits

Earn up to 1 CLE credit

Virtual Conference Schedule

Tuesday, November 16

- Caffeinated Conversations - Open Networking
- Ethics (1 PDH)
- Improving Revenue Collections During a Pandemic – Lessons Learned
- Strategies for Implementing Act 43 Imposing New Requirements for Multi-Family Billings (1 PDH)
- Ask the Managers Panel

Wednesday, November 17

- Caffeinated Conversations - Open Networking
- Can Source Water Protection Benefit Your Authority? (1 PDH)
- Resistance is Not Futile: Overcoming Privatization Pressure
- Critical Infrastructure Cybersecurity: Attacks, Mitigation, and the Human Asset (1 PDH)
- Ask the Engineers Panel (1 PDH)

Thursday, November 18

- Caffeinated Conversations - Open Networking
- Redeveloping a Resilient City
- How Capital Improvement Plans Can Help Authorities Survive COVID-19 and Other Financial Challenges (1 PDH)
- Tell it to the Judge (1 CLE)
- Ask the Solicitor Panel

Why attend?

- Informative
- Convenience
- Cost effective

Visit our website
for the full
schedule

Registration

FYI

Member Pricing:

\$175

Non-Member Pricing:

\$250

Check, made payable to PMAA is enclosed.

Visa

Mastercard

Discover

**Not able to attend?
Register to receive the recording!**

Credit Card:

Card No.:

Exp.: _____

Security code: _____

**For more information & updates,
please visit the website at:
www.municipalauthorities.org/**

Name: _____

Authority/Firm: _____

Address: _____

City, State & Zip: _____ Phone: _____

E-mail: _____

Name: _____

Authority/Firm: _____

Address: _____

City, State & Zip: _____ Phone: _____

E-mail: _____

Name: _____

Authority/Firm: _____

Address: _____

City, State & Zip: _____ Phone: _____

E-mail: _____

Please note: Agenda is subject to change.



PMAA REGION 1 DINNER MEETING

Date & Time: **Thursday, November 18, 2021**
6:30 pm Cocktails & Hors d'oeuvres - 7:30 pm Dinner

Location: **Presidential Caterers of Distinction**
2910 DeKalb Pike (Route 202), East Norriton, PA 19401-1596

Topics: **Update on Legislative Issues affecting Authorities**
PMAA Staff via virtual connection

Update on Water & Sewer Industry - INTERN PROGRAM

Shannon Drosnock, Montgomery Township Sewer Authority

Cyber Security

Update on Cyber Security Programs available through Cybersecurity and Infrastructure Agency (CISA)

Updates on Legal Issues

Steve Hann

Closing Comments- Michael Sullivan

RSVP: **Monday, November 1, 2021 - PLEASE.**

Price: \$50.00 per person**

Menu: *Buffet including Baby Spinach Salad, Carving Display of Roast Beef, Roasted Chicken Saltimbocca, Grilled Mahi Mahi, Pasta Primavera and Ice Cream*

Please return this reservation form with payment to:

Attn: Ritajeane Joyce North Wales Water Authority, P.O. Box 1339, North Wales PA 19454

PLEASE MAKE ALL CHECKS PAYABLE TO "PMAA REGION 1"

***For additional information or assistance please contact Ritajeane Joyce at (215)-699-4836 x 1147
or by email at: rjoyce@nwwater.com***

Authority (or Company) Name: _____

Contact Information: Email _____ Phone _____

Guests Attending:

_____	_____
_____	_____
_____	_____

**** IF YOU PREVIOUSLY SENT IN DINNER MONIES FOR THE 2020 DINNER MEETING THAT WAS CANCELLED, PLEASE CONTACT RITAJEAN ****

FYI

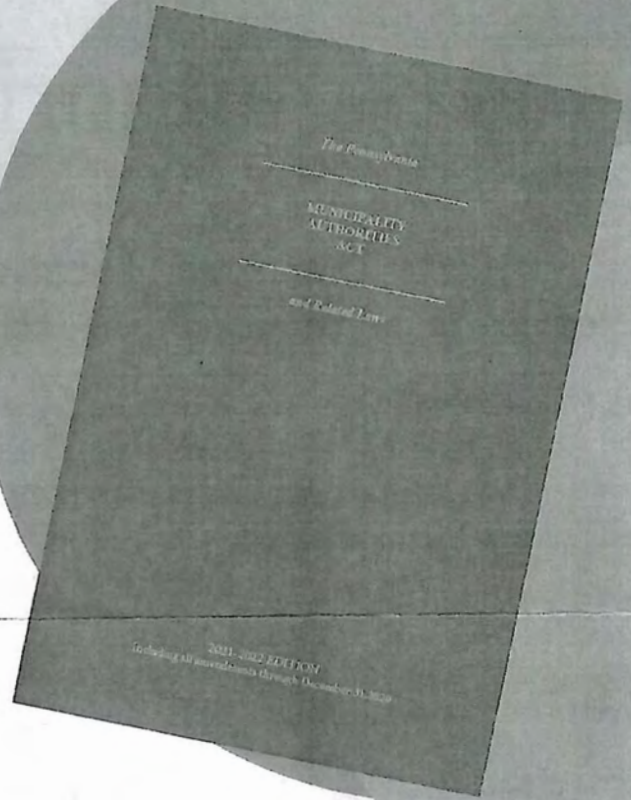


The Authorities

PENNSYLVANIA MUNICIPAL AUTHORITIES ASSOCIATION

Do you have a
copy of the
2021-2022

Municipality
Authorities Act?



1

A complete
edition of the
law governing
municipal
authorities

2

Includes all
amendments,
related laws and
a subject index
for easy reference

3

Updated every
two years
corresponding to
the completion of
the legislative
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Additional
Information



The Authorities

PENNSYLVANIA MUNICIPAL AUTHORITIES ASSOCIATION

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Complete the order form and return it, with payment, to:

- PMAA
1000 N. Front Street, Suite 401
Wormleysburg, PA 17043
- infoemunicipalauthorities.org
- Fax: 717.737.8431



\$29 per copy
1 - 4 books

\$25 per copy
5 or more books

Order Form

Name: _____

Authority/Firm: _____

Address: _____

City, State, Zip: _____ Phone: _____

Number of copies (between 1 - 4): _____ x \$29 = \$ _____

Number of copies (5 or more): _____ x \$25 = \$ _____

A check in the amount of \$ _____ is included.

Exp: _____ Security Code: _____

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Checks payable to PMAA

Cards accepted:
Visa, MC
Discover



FYI
The Authorities
PENNSYLVANIA MUNICIPAL AUTHORITIES ASSOCIATION

2021

Virtual

Conference

**A Virtual Learning Experience
Featuring Topics Impacting
the Business of Authorities**

A three-day intensive digital experience
from the comfort of your office.

Open to all PMAA members, authority
board members and all levels of
industry professionals.

**View the full
schedule on
our website!**

Earn up to 6 PDH credits.

Earn up to 3 Operator credits.

Earn 1 CLE credit.

**NOVEMBER 16 • 8:30AM - 1PM
NOVEMBER 17 • 8:30AM - 1PM
NOVEMBER 18 • 8:30AM - 1PM**

**REGISTER TODAY ONLINE:
WWW.MUNICIPALAUTHORITIES.ORG/**

Registration

FYI

Member Pricing:

\$175

Non-Member Pricing:

\$250

Check, made payable to PMAA is enclosed.

Visa

Mastercard

Discover

***Not able to attend?
Register to receive the recording!***

Credit Card:

Card No.:

Exp.: _____

Security code: _____

***For more information & updates,
please visit the website at:
www.municipalauthorities.org/***

Name: _____
Authority/Firm: _____
Address: _____
City, State & Zip: _____ Phone: _____
E-mail: _____

Name: _____
Authority/Firm: _____
Address: _____
City, State & Zip: _____ Phone: _____
E-mail: _____

Name: _____
Authority/Firm: _____
Address: _____
City, State & Zip: _____ Phone: _____
E-mail: _____

Please note: Agenda is subject to change.

