



85 South Route 100, Allentown, PA 18106  
 610.398.0904 610.481.9098  
 barryisett.com

**Date:** November 30, 2019  
**Project #:** 326212.006  
**Service Task:** 14SANMS

**To:** Department of Environmental Protection – Clean Water Program  
 Northeast Regional Office

**Attention:** Mr. Scott Novatnak

**Address:** 2 Public Square, Wilkes-Barre, Pennsylvania 18701-1915

**RE: ACT 537 PLAN – SALEM TOWNSHIP SANITARY SEWAGE SYSTEM TRANSFER**  
 Salem Township, Pennsylvania

**We are sending you:**

- Shop drawings    Prints    Plans    Specifications    Other:  
 Copy of letter    Samples    Reports    Change Order

COPIES	DATE	NO.	DESCRIPTION
1	11/29/19	1	Act 537 Plan (Original)
1	11/29/19	2	Act 537 Plan (Copy)

**These are transmitted as checked below:**

- For review    For review & comment    Revise & resubmit    Submit  
 For your use    Reviewed    Rejected    Return  
 As requested    Reviewed as noted    Resubmit

**Remarks:**

**Via:**

- USPS**      *FedEx (Delivery times & shipping options vary by zip code)*      **Other**  
 Regular Mail    Priority Overnight (AM)    2-Day    Pick-up    E-mail  
 Certified Mail    Standard Overnight (PM)    Express Saver    Hand Delivery

**Signed:** Andrea Martin, EIT

**Copy to:** Patricia Fritz, Township Manager  
 file

*Letter of Transmittal*



**PART 1 GENERAL INFORMATION FORM** ..... i

**PART 2 ADMINISTRATIVE COMPLETENESS CHECKLIST**

1.	Table of Contents .....	1
2.	Plan Summary .....	3
3.	Municipal Adoption.....	6
4.	Planning Commission / County Health Department Comments.....	9
5.	Publication .....	17
6.	Comments and Responses.....	20
7.	Implementation Schedule.....	38
8.	Consistency Documentation .....	N/A

**PART 3 GENERAL PLAN CONTENT CHECKLIST**

I.	Previous Wastewater Planning .....	41
II.	Physical and Demographics utilizing written description and mapping .....	43
III.	Existing Sewage Facilities in the Planning Area – Identifying the Existing Needs .....	44
IV.	Future Growth and Land Development .....	46
V.	Identify Alternative to Provide New or Improved Wastewater Disposal Facilities .....	47
VI.	Evaluation of Alternatives.....	47
VII.	Institutional Evaluation .....	49
VIII.	Implementation Schedule and Justification for Selected Technical & Institutional Alternatives.....	51
IX.	Environmental Report ( ER) generated from the UER Process .....	N/A

**Attachments**

# *Table of Contents*



## *General Information*

**Part #1 - General  
Information  
Form**



## ACT 537 PLAN CONTENT AND ENVIRONMENTAL ASSESSMENT CHECKLIST

### PART 1 GENERAL INFORMATION

#### A. Project Information

1. Project Name Salem Township Sanitary Sewage System Transfer

2. Brief Project Description Salem Township completed the construction and implementation of the public sanitary sewage collection system and by agreement intends to transfer the system to the Berwick Area Joint Sewer Authority for ownership and operation of the system.

#### B. Client (Municipality) Information

Municipality Name	County	City	Boro	Twp
Salem Township	Luzerne	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

Municipality Contact Individual - Last Name	First Name	MI	Suffix	Title
Fritz	Patricia			

Additional Individual Last Name	First Name	MI	Suffix	Title

Municipality Mailing Address Line 1	Mailing Address Line 2
38 Bomboy Lane	

Address Last Line -- City	State	ZIP+4
Berwick	Pa	18603

Phone + Ext.	FAX (optional)	Email (optional)
570-752-4399		saletownship@pa.metrocast.net

#### C. Site Information

Site (or Project) Name	(Municipal Name) Act 537 Plan
Salem Township Act 537 Plan	

Site Location Line 1	Site Location Line 2

#### D. Project Consultant Information

Last Name	First Name	MI	Suffix
Martin	Andrea		

Title	Consulting Firm Name
	Barry Isett and Assoc.

Project Representative	Barry Isett and Assoc.

Mailing Address Line 1	Mailing Address Line 2
85 South Route 100	

Address Last Line - City	State	ZIP+4	Country
Allentown	Pa	18106	USA

Email	Phone + Ext.	FAX
amartin@barryisett.com	610-398-0904 + 4833	610-481-9098



# *Administrative Completeness Checklist*

**Part #2 - Admin.  
Completeness  
Checklist**

**PART 2 ADMINISTRATIVE COMPLETENESS CHECKLIST**

DEP Use Only	Indicate Page #(s) in Plan	In addition to the main body of the plan, the plan must include items one through eight listed below to be accepted for formal review by DEP. Incomplete plans may be <i>denied</i> unless the municipality is clearly requesting an advisory review.
_____	<u>1</u>	1. <b>Table of Contents</b> 2. <b>Plan Summary</b>
_____	<u>3</u>	A. Identify the proposed service areas and major problems evaluated in the plan. (Reference - 25 Pa. Code §71.21(a)(7)(i)).
_____	<u>3</u>	B. Identify the alternative(s) chosen to solve the problems and serve the areas of need identified in the plan. Also, include any institutional arrangements necessary to implement the chosen alternative(s). (Reference - 25 Pa. Code §71.21(a)(7)(ii)).
_____	<u>4</u>	C. Present the estimated cost of implementing the proposed alternative (including the user fees) and the proposed funding method to be used. (Reference - 25 Pa. Code §71.21(a)(7)(ii)).
_____	<u>4</u>	D. Identify the municipal commitments necessary to implement the Plan. (Reference - 25 Pa. Code §71.21(a)(7)(iii)).
_____	<u>4</u>	E. Provide a schedule of implementation for the project that identifies the <i>major</i> milestones with dates necessary to accomplish the project to the point of operational status. (Reference - 25 Pa. Code §71.21(a)(7)(iv)).
_____	<u>5</u>	3. <b>Municipal Adoption:</b> <i>Original</i> , signed and sealed Resolution of Adoption by the municipality which contains, at a minimum, alternatives chosen and a commitment to implement the Plan in accordance with the implementation schedule. (Reference - 25 Pa. Code §71.31(f)) Section V.F. of the Planning Guide.
_____	<u>8</u>	4. <b>Planning Commission / County Health Department Comments:</b> Evidence that the municipality has requested, reviewed and considered comments by appropriate official planning agencies of the municipality, planning agencies of the county, planning agencies with area wide jurisdiction (where applicable), and any existing county or joint county departments of health. (Reference - 25 Pa. Code §71.31(b)) Section V.E.1 of the Planning Guide.
_____	<u>16</u>	5. <b>Publication:</b> Proof of Public Notice which documents the proposed plan adoption, plan summary, and the establishment and conduct of a 30-day comment period. (Reference - 25 Pa. Code §71.31(c)) Section V.E.2 of the Planning Guide.
_____	<u>19</u>	6. <b>Comments and Responses:</b> Copies of <i>all</i> written comments received and municipal response to <i>each</i> comment in relation to the proposed plan. (Reference - 25 Pa. Code §71.31(c)) Section V.E.2 of the Planning Guide.
_____	<u>37</u>	7. <b>Implementation Schedule:</b> A complete project implementation schedule with milestone dates specific for each existing and future area of need. Other activities in the project implementation schedule should be indicated as occurring a finite number of days from a major milestone. (Reference - 25 Pa. Code §71.31(d)) Section V.F. of the Planning Guide. Include dates for the future initiation of feasibility evaluations in the project's implementation schedule for areas proposing completion of sewage facilities for planning periods in excess of five years. (Reference - 25 Pa. Code §71.21(c)).
_____	<u>N/A</u>	8. <b>Consistency Documentation:</b> Documentation indicating that the appropriate agencies have received, reviewed and concurred with the method proposed to resolve identified inconsistencies within the proposed alternative and consistency requirements in 25 Pa. Code §71.21(a)(5)(i-iii). (Reference - 25 Pa. Code §71.31(e)). Appendix B of the Planning Guide.



**PART 3 GENERAL PLAN CONTENT CHECKLIST**

DEP Use Only	Indicate Page #(s) in Plan	Item Required
_____	<u>41</u>	<b>I. Previous Wastewater Planning</b>
		A. Identify, describe and briefly analyze all past wastewater planning for its impact on the current planning effort:
_____	<u>41</u>	1. Previously undertaken under the Pennsylvania Sewage Facilities Act (Act). (Reference - Act 537, 35 P.S. §750.5(d)(1)).
_____	<u>42</u>	2. Has not been carried out according to an approved implementation schedule contained in the plans. (Reference - 25 Pa. Code §71.21(a)(5)(i)(A-D)). Section V.F of the Planning Guide.
_____	<u>42</u>	3. Is anticipated or planned by applicable sewer authorities or approved under a Chapter 94 Corrective Action Plan. (Reference - 25 Pa. Code §71.21(a)(5)(i)(A&B)). Section V.D. of the Planning Guide.
_____	<u>42</u>	4. Through planning modules for new land development, planning "exemptions" and addenda. (Reference - 25 Pa. Code §71.21(a)(5)(i)(A)).
_____	<u>43</u>	<b>II. Physical and Demographic Analysis utilizing written description and mapping</b> (All items listed below require maps, and all maps should show all current lots and structures and be of appropriate scale to clearly show significant information).
_____	<u>43</u>	A. Identification of planning area(s), municipal boundaries, Sewer Authority/Management Agency service area boundaries. (Reference - 25 Pa. Code §71.21(a)(1)(i)).
_____	<u>43</u>	B. Identification of physical characteristics (streams, lakes, impoundments, natural conveyance, channels, drainage basins in the planning area). (Reference - 25 Pa. Code §71.21(a)(1)(ii)).
_____	<u>43</u>	C. Soils - Analysis with description by soil type and soils mapping for areas not presently served by sanitary sewer service. Show areas suitable for in-ground onlot systems, elevated sand mounds, individual residential spray irrigation systems (IRSIS), and areas unsuitable for soil dependent systems. (Reference - 25 Pa. Code §71.21(a)(1)(iii)). Show Prime Agricultural Soils and any locally protected agricultural soils. (Reference - 25 Pa. Code §71.21(a)(1)(iii)).
_____	<u>43</u>	D. Geologic Features - (1) Identification through analysis, (2) mapping and (3) their relation to existing or potential nitrate-nitrogen pollution and drinking water sources. Include areas where existing nitrate-nitrogen levels are in excess of 5 mg/L. (Reference - 25 Pa. Code §71.21(a)(1)(iii)).
_____	<u>43</u>	E. Topography - Depict areas with slopes that are suitable for conventional systems; slopes that are suitable for elevated sand mounds and slopes that are unsuitable for onlot systems. (Reference - 25 Pa. Code §71.21(a)(1)(ii)).
_____	<u>43</u>	F. Potable Water Supplies - Identification through mapping, description and analysis. Include public water supply service areas and available public water supply capacity and aquifer yield for groundwater supplies. (Reference - 25 Pa. Code §71.21(a)(1)(vi)). Section V.C. of the Planning Guide.
_____	<u>43</u>	G. Wetlands-Identify wetlands as defined in 25 Pa. Code Chapter 105 by description, analysis and mapping. Include National Wetland Inventory mapping and potential wetland areas per the United States Department of Agricultural (USDA) Natural Resources Conservation Service (NRCS) mapped hydric soils. Proposed collection, conveyance and treatment facilities and lines must be located and labeled, along with the identified wetlands, on the map. (Reference - 25 Pa. Code §71.21(a)(1)(v)). Appendix B, Section II.I of the Planning Guide.

<u>44</u>		<b>III.</b>	<b>Existing Sewage Facilities in the Planning Area - Identifying the Existing Needs</b>
<u>44</u>		A.	Identify, map and describe municipal and non-municipal, individual and community sewerage systems in the planning area including:
<u>44</u>		1.	Location, size and ownership of treatment facilities, main intercepting lines, pumping stations and force mains including their size, capacity, point of discharge. Also include the name of the receiving stream, drainage basin, and the facility's effluent discharge requirements. (Reference - 25 Pa. Code §71.21(a)(2)(i)(A)).
<u>N/A</u>		2.	A narrative and schematic diagram of the facility's basic treatment processes including the facility's National Pollutant Discharge Elimination System (NPDES) permitted capacity, and the Clean Streams Law permit number. (Reference - 25 Pa. Code §71.21(a)(2)(i)(A)).
<u>44</u>		3.	A description of problems with existing facilities (collection, conveyance and/or treatment), including existing or projected overload under 25 Pa. Code Chapter 94 (relating to municipal wastewater management) or violations of the NPDES permit, Clean Streams Law permit, or other permit, rule or regulation of DEP. (Reference - 25 Pa. Code §71.21(a)(2)(i)(B)).
<u>N/A</u>		4.	Details of scheduled or in-progress upgrading or expansion of treatment facilities and the anticipated completion date of the improvements. Discuss any remaining reserve capacity and the policy concerning the allocation of reserve capacity. Also discuss the compatibility of the rate of growth to existing and proposed wastewater treatment facilities. (Reference - 25 Pa. Code §71.21(a)(4)(i & ii)).
<u>N/A</u>		5.	A detailed description of the municipality's operation and maintenance (O & M) requirements for small flow treatment facility systems, including the status of past and present compliance with these requirements and any other requirements relating to sewage management programs (SMPs). (Reference - 25 Pa. Code §71.21(a)(2)(i)(C)).
<u>45</u>		6.	Disposal areas, if other than stream discharge, and any applicable groundwater limitations. (Reference - 25 Pa. Code §71.21(a)(4)(i & ii)).
<u>45</u>		B.	Using DEP's publication titled <i>Act 537 Sewage Disposal Needs Identification</i> (3800-BK-DEP1949), identify, map and describe areas that utilize individual and community onlot sewage disposal and, unpermitted collection and disposal systems ("wildcat" sewers, borehole disposal, etc.) and retaining tank systems in the planning area including:
<u>N/A</u>		1.	The types of onlot systems in use. (Reference - 25 Pa. Code §71.21(a)(2)(ii)(A)).
<u>N/A</u>		2.	A sanitary survey complete with description, map and tabulation of documented and potential public health, pollution, and operational problems (including malfunctioning systems) with the systems, including violations of local ordinances, the Act, the Clean Stream Law or regulations promulgated thereunder. (Reference - 25 Pa. Code §71.21(a)(2)(ii)(B)).
<u>N/A</u>		3.	A comparison of the types of onlot sewage systems installed in an area with the types of systems which are appropriate for the area according to soil, geologic conditions, topographic limitations sewage flows, and 25 Pa. Code Chapter 73 (relating to standards for sewage disposal facilities). (Reference - 25 Pa. Code §71.21(a)(2)(ii)(C)).
<u>N/A</u>		4.	An individual water supply survey to identify possible contamination by malfunctioning onlot sewage disposal systems consistent with DEP's <i>Act 537 Sewage Disposal Needs Identification</i> publication. (Reference - 25 Pa. Code §71.21(a)(2)(ii)(B)).

- \_\_\_\_\_ N/A 5. Detailed description of O & M requirements of the municipality for individual and small volume community onlot systems, including the status of past and present compliance with these requirements and any other requirements relating to SMPs. (Reference - 25 Pa. Code §71.21(a)(2)(i)(C)).
- \_\_\_\_\_ N/A C. Identify wastewater sludge and septage generation, transport and disposal methods. Include this information in the sewage facilities alternative analysis including:
  - \_\_\_\_\_ N/A 1. Location of sources of wastewater sludge or septage (Septic tanks, holding tanks, wastewater treatment facilities). (Reference – 25 Pa. Code §71.71).
  - \_\_\_\_\_ N/A 2. Quantities of the types of sludges or septage generated. (Reference - 25 Pa. Code §71.71).
  - \_\_\_\_\_ N/A 3. Present disposal methods, locations, capacities and transportation methods. (Reference - 25 Pa. Code §71.71).
- \_\_\_\_\_ 46 **IV. Future Growth and Land Development**
- \_\_\_\_\_ N/A A. Identify and briefly summarize all municipal and county planning documents adopted pursuant to the Pennsylvania Municipalities Planning Code (Act 247) including:
  - \_\_\_\_\_ N/A 1. All land use plans and zoning maps that identify residential, commercial, industrial, agricultural, recreational and open space areas. (Reference - 25 Pa. Code §71.21(a)(3)(iv)).
  - \_\_\_\_\_ N/A 2. Zoning or subdivision regulations that establish lot sizes predicated on sewage disposal methods. (Reference – 25 Pa. Code §71.21(a)(3)(iv)).
  - \_\_\_\_\_ N/A 3. All limitations and plans related to floodplain and stormwater management and special protection (25 Pa. Code Chapter 93) areas. (Reference - 25 Pa. Code §71.21(a)(3)(iv)) Appendix B, Section II.F of the Planning Guide.
- \_\_\_\_\_ 46 B. Delineate and describe the following through map, text and analysis.
  - \_\_\_\_\_ N/A 1. Areas with existing development or plotted subdivisions. Include the name, location, description, total number of equivalent dwelling units (EDUs) in development, total number of EDUs currently developed and total number of EDUs remaining to be developed (include time schedule for EDUs remaining to be developed). (Reference - 25 Pa. Code §71.21(a)(3)(i)).
  - \_\_\_\_\_ N/A 2. Land use designations established under the Pennsylvania Municipalities Planning Code (35 P.S. 10101-11202), including residential, commercial and industrial areas. (Reference - 25 Pa. Code §71.21(a)(3)(ii)). Include a comparison of proposed land use as allowed by zoning and existing sewage facility planning. (Reference - 25 Pa. Code §71.21(a)(3)(iv)).
  - \_\_\_\_\_ N/A 3. Future growth areas with population and EDU projections for these areas using historical, current and future population figures and projections of the municipality. Discuss and evaluate discrepancies between local, county, state and federal projections as they relate to sewage facilities. (Reference - 25 Pa. Code §71.21(a)(1)(iv) and (a)(3)(iii)).
  - \_\_\_\_\_ N/A 4. Zoning, and/or subdivision regulations; local, county or regional comprehensive plans; and existing plans of any other agency relating to the development, use and protection of land and water resources with special attention to: (Reference - 25 Pa. Code §71.21(a)(3)(iv)).
    - public ground/surface water supplies
    - recreational water use areas
    - groundwater recharge areas
    - industrial water use
    - wetlands

- \_\_\_\_\_ N/A 5. Sewage planning necessary to provide adequate wastewater treatment for 5 and 10-year future planning periods based on projected growth of existing and proposed wastewater collection and treatment facilities. (Reference - 25 Pa. Code §71.21(a)(3)(v)).
  
- \_\_\_\_\_ 47 **V. Identify Alternatives to Provide New or Improved Wastewater Disposal Facilities**
  
- \_\_\_\_\_ N/A A. Conventional collection, conveyance, treatment and discharge alternatives including:
  - \_\_\_\_\_ N/A 1. The potential for regional wastewater treatment. (Reference - 25 Pa. Code §71.21(a)(4)).
  - \_\_\_\_\_ N/A 2. The potential for extension of existing municipal or non-municipal sewage facilities to areas in need of new or improved sewage facilities. (Reference - 25 Pa. Code §71.21(a)(4)(i)).
  - \_\_\_\_\_ N/A 3. The potential for the continued use of existing municipal or non-municipal sewage facilities through one or more of the following: (Reference - 25 Pa. Code §71.21(a)(4)(ii)).
    - \_\_\_\_\_ N/A a. Repair. (Reference - 25 Pa. Code §71.21(a)(4)(ii)(A)).
    - \_\_\_\_\_ N/A b. Upgrading. (Reference - 25 Pa. Code §71.21(a)(4)(ii)(B)).
    - \_\_\_\_\_ N/A c. Reduction of hydraulic or organic loading to existing facilities. (Reference - 25 Pa. Code §71.71).
    - \_\_\_\_\_ N/A d. Improved O & M. (Reference - 25 Pa. Code §71.21(a)(4)(ii)(C)).
    - \_\_\_\_\_ N/A e. Other applicable actions that will resolve or abate the identified problems. (Reference - 25 Pa. Code §71.21(a)(4)(ii)(D)).
  - \_\_\_\_\_ N/A 4. Repair or replacement of existing collection and conveyance system components. (Reference - 25 Pa. Code §71.21(a)(4)(ii)(A)).
  - \_\_\_\_\_ N/A 5. The need for construction of new community sewage systems including sewer systems and/or treatment facilities. (Reference - 25 Pa. Code §71.21(a)(4)(iii)).
  - \_\_\_\_\_ N/A 6. Use of innovative/alternative methods of collection/conveyance to serve needs areas using existing wastewater treatment facilities. (Reference - 25 Pa. Code §71.21(a)(4)(ii)(B)).
  
- \_\_\_\_\_ N/A B. The use of individual sewage disposal systems including IRSIS systems based on:
  - \_\_\_\_\_ N/A 1. Soil and slope suitability. (Reference - 25 Pa. Code §71.21(a)(2)(ii)(C)).
  - \_\_\_\_\_ N/A 2. Preliminary hydrogeologic evaluation. (Reference - 25 Pa. Code §71.21(a)(2)(ii)(C)).
  - \_\_\_\_\_ N/A 3. The establishment of a SMP. (Reference - 25 Pa. Code §71.21(a)(4)(iv)). See also Part "F" below.
  - \_\_\_\_\_ N/A 4. The repair, replacement or upgrading of existing malfunctioning systems in areas suitable for onlot disposal considering: (Reference - 25 Pa. Code §71.21(a)(4)).
    - \_\_\_\_\_ N/A a. Existing technology and sizing requirements of 25 Pa. Code Chapter 73. (Reference - 25 Pa. Code §73.31-§73.72).
    - \_\_\_\_\_ N/A b. Use of expanded absorption areas or alternating absorption areas. (Reference - 25 Pa. Code §73.16).
    - \_\_\_\_\_ N/A c. Use of water conservation devices. (Reference - 25 Pa. Code §71.73(b)(2)(iii)).

- \_\_\_\_\_ N/A C. The use of small flow sewage treatment facilities or package treatment facilities to serve individual homes or clusters of homes with consideration of: (Reference - 25 Pa. Code §71.64(d)).
- \_\_\_\_\_ N/A 1. Treatment and discharge requirements. (Reference - 25 Pa. Code §71.64(d)).
- \_\_\_\_\_ N/A 2. Soil suitability. (Reference - 25 Pa. Code §71.64(c)(1)).
- \_\_\_\_\_ N/A 3. Preliminary hydrogeologic evaluation. (Reference - 25 Pa. Code §71.64(c)(2)).
- \_\_\_\_\_ N/A 4. Municipal, Local Agency or other controls over O & M requirements through a SMP. (Reference - 25 Pa. Code §71.64(d)). See Part "F" below.
- \_\_\_\_\_ N/A D. The use of community land disposal alternatives including:
- \_\_\_\_\_ N/A 1. Soil and site suitability. (Reference - 25 Pa. Code §71.21(a)(2)(ii)(C)).
- \_\_\_\_\_ N/A 2. Preliminary hydrogeologic evaluation. (Reference - 25 Pa. Code §71.21(a)(2)(ii)(C)).
- \_\_\_\_\_ N/A 3. Municipality, Local Agency or other controls over O & M requirements through a SMP. (Reference - 25 Pa. Code §71.21(a)(2)(ii)(C)). See Part "F" below.
- \_\_\_\_\_ N/A 4. The rehabilitation or replacement of existing malfunctioning community land disposal systems. (See Part "V", B, 4, a, b, c above). See also Part "F" below.
- \_\_\_\_\_ N/A E. The use of retaining tank alternatives on a temporary or permanent basis including: (Reference - 25 Pa. Code §71.21(a)(4)).
- \_\_\_\_\_ N/A 1. Commercial, residential and industrial use. (Reference - 25 Pa. Code §71.63(e)).
- \_\_\_\_\_ N/A 2. Designated conveyance facilities (pumper trucks). (Reference - 25 Pa. Code §71.63(b)(2)).
- \_\_\_\_\_ N/A 3. Designated treatment facilities or disposal site. (Reference - 25 Pa. Code §71.63(b)(2)).
- \_\_\_\_\_ N/A 4. Implementation of a retaining tank ordinance by the municipality. (Reference - 25 Pa. Code §71.63(c)(3)). See Part "F" below.
- \_\_\_\_\_ N/A 5. Financial guarantees when retaining tanks are used as an interim sewage disposal measure. (Reference - 25 Pa. Code §71.63(c)(2)).
- \_\_\_\_\_ N/A F. SMPs to assure the future O & M of existing and proposed sewage facilities through:
- \_\_\_\_\_ N/A 1. Municipal ownership or control over the O & M of individual onlot sewage disposal systems, small flow treatment facilities, or other traditionally non-municipal treatment facilities. (Reference - 25 Pa. Code §71.21(a)(4)(iv)).
- \_\_\_\_\_ N/A 2. Required inspection of sewage disposal systems on a schedule established by the municipality. (Reference - 25 Pa. Code §71.73(b)(1)).
- \_\_\_\_\_ N/A 3. Required maintenance of sewage disposal systems including septic and aerobic treatment tanks and other system components on a schedule established by the municipality. (Reference - 25 Pa. Code §71.73(b)(2)).
- \_\_\_\_\_ N/A 4. Repair, replacement or upgrading of malfunctioning onlot sewage systems. (Reference - 25 Pa. Code §71.21(a)(4)(iv) and §71.73(b)(5)) through:
- \_\_\_\_\_ N/A a. Aggressive pro-active enforcement of ordinances that require O & M and prohibit malfunctioning systems. (Reference - 25 Pa. Code §71.73(b)(5)).
- \_\_\_\_\_ N/A b. Public education programs to encourage proper O & M and repair of sewage disposal systems.
- \_\_\_\_\_ N/A 5. Establishment of joint municipal SMPs. (Reference - 25 Pa. Code §71.73(b)(8)).

- \_\_\_\_\_ N/A 6. Requirements for bonding, escrow accounts, management agencies or associations to assure O & M for non-municipal facilities. (Reference - 25 Pa. Code §71.71).
- \_\_\_\_\_ N/A G. Non-structural comprehensive planning alternatives that can be undertaken to assist in meeting existing and future sewage disposal needs including: (Reference - 25 Pa. Code §71.21(a)(4)).
  - 1. Modification of existing comprehensive plans involving:
    - \_\_\_\_\_ N/A a. Land use designations. (Reference - 25 Pa. Code §71.21(a)(4)).
    - \_\_\_\_\_ N/A b. Densities. (Reference - 25 Pa. Code §71.21(a)(4)).
    - \_\_\_\_\_ N/A c. Municipal ordinances and regulations. (Reference - 25 Pa. Code §71.21(a)(4)).
    - \_\_\_\_\_ N/A d. Improved enforcement. (Reference - 25 Pa. Code §71.21(a)(4)).
    - \_\_\_\_\_ N/A e. Protection of drinking water sources. (Reference - 25 Pa. Code §71.21(a)(4)).
  - \_\_\_\_\_ N/A 2. Consideration of a local comprehensive plan to assist in producing sound economic and consistent land development. (Reference - 25 Pa. Code §71.21(a)(4)).
  - \_\_\_\_\_ N/A 3. Alternatives for creating or changing municipal subdivision regulations to assure long-term use of on-site sewage disposal that consider lot sizes and protection of replacement areas. (Reference - 25 Pa. Code §71.21(a)(4)).
  - \_\_\_\_\_ N/A 4. Evaluation of existing local agency programs and the need for technical or administrative training. (Reference - 25 Pa. Code §71.21(a)(4)).
- \_\_\_\_\_ N/A H. A no-action alternative which includes discussion of both short-term and long-term impacts on:
  - \_\_\_\_\_ N/A 1. Water quality/public health. (Reference - 25 Pa. Code §71.21(a)(4)).
  - \_\_\_\_\_ N/A 2. Growth potential (residential, commercial, industrial). (Reference - 25 Pa. Code §71.21(a)(4)).
  - \_\_\_\_\_ N/A 3. Community economic conditions. (Reference - 25 Pa. Code §71.21(a)(4)).
  - \_\_\_\_\_ N/A 4. Recreational opportunities. (Reference - 25 Pa. Code §71.21(a)(4)).
  - \_\_\_\_\_ N/A 5. Drinking water sources. (Reference - 25 Pa. Code §71.21(a)(4)).
  - \_\_\_\_\_ N/A 6. Other environmental concerns. (Reference - 25 Pa. Code §71.21(a)(4)).

\_\_\_\_\_ 47 **VI. Evaluation of Alternatives**

- \_\_\_\_\_ N/A A. Technically feasible alternatives identified in Section V of this checklist must be evaluated for consistency with respect to the following: (Reference - 25 Pa. Code §71.21(a)(5)(i)).
  - \_\_\_\_\_ N/A 1. Applicable plans developed and approved under **Sections 4 and 5 of the Clean Streams Law or Section 208 of the Clean Water Act** (33 U.S.C.A. 1288). (Reference - 25 Pa. Code §71.21(a)(5)(i)(A)). Appendix B, Section II.A of the Planning Guide.
  - \_\_\_\_\_ N/A 2. Municipal wasteload management **Corrective Action Plans or Annual Reports** developed under 25 Pa. Code Chapter 94. (Reference - 25 Pa. Code §71.21(a)(5)(i)(B)). The municipality's recent Wasteload Management (25 Pa. Code Chapter 94) Reports should be examined to determine if the proposed alternative is consistent with the recommendations and findings of the report. Appendix B, Section II.B of the Planning Guide.
  - \_\_\_\_\_ N/A 3. Plans developed under **Title II of the Clean Water Act** (33 U.S.C.A. 1281-1299) or **Titles II and VI of the Water Quality Act of 1987** (33 U.S.C.A.

1251-1376). (Reference - 25 Pa. Code §71.21(a)(5)(i)(C)). Appendix B, Section II.E of the Planning Guide.

- |       |            |   |
|-------|------------|---|
| _____ | <u>N/A</u> | 4. <b>Comprehensive plans</b> developed under the Pennsylvania Municipalities Planning Code. (Reference - 25 Pa. Code §71.21(a)(5)(i)(D)). The municipality's comprehensive plan must be examined to assure that the proposed wastewater disposal alternative is consistent with land use and all other requirements stated in the comprehensive plan. Appendix B, Section II.D of the Planning Guide.  |
| _____ | <u>N/A</u> | 5. <b>Antidegradation requirements</b> as contained in 25 Pa. Code Chapters 93, 95 and 102 (relating to water quality standards, wastewater treatment requirements and erosion control) and the Clean Water Act. (Reference - 25 Pa. Code §71.21(a)(5)(i)(E)). Appendix B, Section II.F of the Planning Guide.  |
| _____ | <u>N/A</u> | 6. <b>State Water Plans</b> developed under the Water Resources Planning Act (42 U.S.C.A. 1962-1962 d-18). (Reference - 25 Pa. Code §71.21(a)(5)(i)(F)). Appendix B, Section II.C of the Planning Guide.  |
| _____ | <u>N/A</u> | 7. <b>Pennsylvania Prime Agricultural Land Policy</b> contained in Title 4 of the Pennsylvania Code, Chapter 7, Subchapter W. Provide narrative on local municipal policy and an overlay map on prime agricultural soils. (Reference - 25 Pa. Code §71.21(a)(5)(i)(G)). Appendix B, Section II.G of the Planning Guide.   |
| _____ | <u>N/A</u> | 8. <b>County Stormwater Management Plans</b> approved by DEP under the Storm Water Management Act (32 P.S. 680.1-680.17). (Reference - 25 Pa. Code §71.21(a)(5)(i)(H)). Conflicts created by the implementation of the proposed wastewater alternative and the existing recommendations for the management of stormwater in the county Stormwater Management Plan must be evaluated and mitigated. If no plan exists, no conflict exists. Appendix B, Section II.H of the Planning Guide.   |
| _____ | <u>N/A</u> | 9. <b>Wetland Protection.</b> Using wetland mapping developed under Checklist Section II.G, identify and discuss mitigative measures including the need to obtain permits for any encroachments on wetlands from the construction or operation of any proposed wastewater facilities. (Reference - 25 Pa. Code §71.21(a)(5)(i)(I)) Appendix B, Section II.I of the Planning Guide.  |
| _____ | <u>N/A</u> | 10. <b>Protection of rare, endangered or threatened plant and animal species</b> as identified by the Pennsylvania Natural Diversity Inventory (PNDI). (Reference - 25 Pa. Code §71.21(a)(5)(i)(J)). Provide DEP with a copy of the completed <i>PNDI Manual Project Submission Form</i> . Also provide a copy of the response letters from the 4 jurisdictional agencies regarding the findings of the PNDI search. Appendix B, Section II.J of the Planning Guide.  |
| _____ | <u>N/A</u> | 11. <b>Historical and archaeological resource protection</b> under P.C.S. Title 37, Section 507 relating to cooperation by public officials with the Pennsylvania Historical and Museum Commission (PHMC). (Reference - 25 Pa. Code §71.21(a)(5)(i)(K)). Provide DEP with a completed copy of a <i>Cultural Resource Notice</i> and a return receipt for its submission to PHMC. Provide a copy of the response letter or review stamp from the Bureau of Historic Preservation (BHP) indicating the project will have no effect on, or that there may be potential impacts on, known archaeological and historical sites and any avoidance and mitigation measures required. Appendix B, Section II.K of the Planning Guide. |

- |       |            |   |
|-------|------------|---|
| _____ | <u>N/A</u> | B. Provide for the resolution of any inconsistencies in any of the points identified in Section VI.A. of this checklist by submitting a letter from the appropriate agency stating that the agency has received, reviewed and concurred with the resolution of identified inconsistencies. (Reference - 25 Pa. Code §71.21(a)(5)(ii)). Appendix B of the Planning Guide.  |
| _____ | <u>48</u>  | C. Evaluate alternatives identified in Section V of this checklist with respect to applicable water quality standards, effluent limitations or other technical, legislative or legal requirements. (Reference - 25 Pa. Code §71.21(a)(5)(iii)).   |
| _____ | <u>48</u>  | D. Provide cost estimates using present worth analysis for construction, financing, ongoing administration, O & M and user fees for alternatives identified in Section V of this checklist. Estimates shall be limited to areas identified in the plan as needing improved sewage facilities within 5 years from the date of plan submission. (Reference - 25 Pa. Code §71.21(a)(5)(iv)).   |
| _____ | <u>N/A</u> | E. Provide an analysis of the funding methods available to finance the proposed alternatives evaluated in Section V of this checklist. Also provide documentation to demonstrate which alternative and financing scheme combination is the most cost-effective; and a contingency financial plan to be used if the preferred method of financing cannot be implemented. The funding analysis shall be limited to areas identified in the plan as needing improved sewage facilities within 5 years from the date of the plan submission. (Reference - 25 Pa. Code §71.21(a)(5)(v)). |
| _____ | <u>48</u>  | F. Analyze the need for immediate or phased implementation of each alternative proposed in Section V of this checklist including: (Reference - 25 Pa. Code §71.21(a)(5)(vi)).   |
| _____ | <u>48</u>  | 1. A description of any activities necessary to abate critical public health hazards pending completion of sewage facilities or implementation of SMPs. (Reference - 25 Pa. Code §71.21(a)(5)(vi)(A)).  |
| _____ | <u>49</u>  | 2. A description of the advantages, if any, in phasing construction of the facilities or implementation of a SMP justifying time schedules for each phase. (Reference - 25 Pa. Code §71.21(a)(5)(vi)(B)).   |
| _____ | <u>49</u>  | G. Evaluate administrative organizations and legal authority necessary for plan implementation. (Reference - 25 Pa. Code §71.21(a)(5)(vi)(D)).  |
| _____ | <u>49</u>  | <b>VII. Institutional Evaluation</b>  |
| _____ | <u>N/A</u> | A. Provide an analysis of all existing wastewater treatment authorities, their past actions and present performance including:  |
| _____ | <u>N/A</u> | 1. Financial and debt status. (Reference - 25 Pa. Code §71.61(d)(2)).   |
| _____ | <u>N/A</u> | 2. Available staff and administrative resources. (Reference - 25 Pa. Code §71.61(d)(2)).  |
| _____ | <u>N/A</u> | 3. Existing legal authority to:   |
| _____ | <u>N/A</u> | a. Implement wastewater planning recommendations. (Reference - 25 Pa. Code §71.61(d)(2)).   |
| _____ | <u>N/A</u> | b. Implement system-wide O & M activities. (Reference - 25 Pa. Code §71.61(d)(2)).  |
| _____ | <u>N/A</u> | c. Set user fees and take purchasing actions. (Reference - 25 Pa. Code §71.61(d)(2)).   |
| _____ | <u>N/A</u> | d. Take enforcement actions against ordinance violators. (Reference - 25 Pa. Code §71.61(d)(2)).  |
| _____ | <u>N/A</u> | e. Negotiate agreements with other parties. (Reference - 25 Pa. Code §71.61(d)(2)).   |



- \_\_\_\_\_ N/A f. Raise capital for construction and O & M of facilities. (Reference - 25 Pa. Code §71.61(d)(2)).
- \_\_\_\_\_ 49 B. Provide an analysis and description of the various institutional alternatives necessary to implement the proposed technical alternatives including:
- \_\_\_\_\_ 49 1. Need for new municipal departments or municipal authorities. (Reference - 25 Pa. Code §71.61(d)(2)).
- \_\_\_\_\_ 49 2. Functions of existing and proposed organizations (sewer authorities, onlot maintenance agencies, etc.). (Reference - 25 Pa. Code §71.61(d)(2)).
- \_\_\_\_\_ 50 3. Cost of administration, implementability, and the capability of the authority/agency to react to future needs. (Reference - 25 Pa. Code §71.61(d)(2)).
- \_\_\_\_\_ 50 C. Describe all necessary administrative and legal activities to be completed and adopted to ensure the implementation of the recommended alternative including:
- \_\_\_\_\_ 50 1. Incorporation of authorities or agencies. (Reference - 25 Pa. Code §71.61(d)(2)).
- \_\_\_\_\_ 50 2. Development of all required ordinances, regulations, standards and inter-municipal agreements. (Reference - 25 Pa. Code §71.61(d)(2)).
- \_\_\_\_\_ 50 3. Description of activities to provide rights-of-way, easements and land transfers. (Reference - 25 Pa. Code §71.61(d)(2)).
- \_\_\_\_\_ 50 4. Adoption of other municipal sewage facilities plans. (Reference - 25 Pa. Code §71.61(d)(2)).
- \_\_\_\_\_ 50 5. Any other legal documents. (Reference - 25 Pa. Code §71.61(d)(2)).
- \_\_\_\_\_ 50 6. Dates or timeframes for items 1-5 above on the project's implementation schedule.
- \_\_\_\_\_ 51 D. Identify the proposed institutional alternative for implementing the chosen technical wastewater disposal alternative. Provide justification for choosing the specific institutional alternative considering administrative issues, organizational needs and enabling legal authority. (Reference - 25 Pa. Code §71.61(d)(2)).

**VIII. Implementation Schedule and Justification for Selected Technical & Institutional Alternatives**

- \_\_\_\_\_ 51 A. Identify the technical wastewater disposal alternative which best meets the wastewater treatment needs of each study area of the municipality. Justify the choice by providing documentation which shows that it is the best alternative based on:
- \_\_\_\_\_ 51 1. Existing wastewater disposal needs. (Reference - 25 Pa. Code §71.21(a)(6)).
- \_\_\_\_\_ 51 2. Future wastewater disposal needs. (5 and 10 year growth areas). (Reference - 25 Pa. Code §71.21(a)(6)).
- \_\_\_\_\_ 51 3. O & M considerations. (Reference - 25 Pa. Code §71.21(a)(6)).
- \_\_\_\_\_ N/A 4. Cost-effectiveness. (Reference - 25 Pa. Code §71.21(a)(6)).
- \_\_\_\_\_ 51 5. Available management and administrative systems. (Reference - 25 Pa. Code §71.21(a)(6)).
- \_\_\_\_\_ N/A 6. Available financing methods. (Reference - 25 Pa. Code §71.21(a)(6)).
- \_\_\_\_\_ 52 7. Environmental soundness and compliance with natural resource planning and preservation programs. (Reference - 25 Pa. Code §71.21(a)(6)).

- \_\_\_\_\_ 52 B. Designate and describe the capital financing plan chosen to implement the selected alternative(s). Designate and describe the chosen back-up financing plan. (Reference - 25 Pa. Code §71.21(a)(6))
- \_\_\_\_\_ 52 C. Designate and describe the implementation schedule for the recommended alternative, including justification for any proposed phasing of construction or implementation of a SMP. (Reference – 25 Pa. Code §71.31(d))

**IX. Environmental Report (ER) generated from the UER Process**

- \_\_\_\_\_ N/A
- \_\_\_\_\_ N/A A. Complete an ER as required by the UER process and as described in the DEP Technical Guidance (381-5511-111). Include this document as "Appendix A" to the Act 537 Plan Update Revision. **Note: An ER is required only for Wastewater projects proposing funding through any of the funding sources identified in the UER.**

**ADDITIONAL REQUIREMENTS FOR PENNVEST PROJECTS**

Municipalities that propose to implement their official sewage facilities plan updates with PENNVEST funds must meet 6 additional requirements to be eligible for such funds. See *A Guide for Preparing Act 537 Update Revisions* (362-0300-003), Appendix N for greater detail or contact the DEP regional office serving your county listed in Appendix J of the same publication.

DEP Use Only	Indicate Page #(s) in Plan	Item Required
_____	_____	1. Environmental Impact Assessment. (Planning Phase) The UER replaces the Environmental Impact Assessment that was a previous requirement for PENNVEST projects.
_____	_____	2. Cost Effectiveness (Planning Phase) The cost-effectiveness analysis should be a present-worth (or equivalent uniform annual) cost evaluation of the principle alternatives using the interest rate that is published annually by the Water Resources Council. Normally, for PENNVEST projects the applicant should select the most cost-effective alternative based upon the above analysis. Once the alternative has been selected the user fee estimates should be developed based upon interest rates and loan terms of the selected funding method.
_____	_____	3. Second Opinion Project Review. (Design Phase)
_____	_____	4. Minority Business Enterprise/Women's Business Enterprise (Construction Phase)
_____	_____	5. Civil Rights. (Construction Phase)
_____	_____	6. Initiation of Operation/Performance Certification. (Post-construction Phase)



**PART 1 GENERAL INFORMATION FORM .....i**

**PART 2 ADMINISTRATIVE COMPLETENESS CHECKLIST**

1.	Table of Contents .....	1
2.	Plan Summary .....	3
3.	Municipal Adoption.....	6
4.	Planning Commission / County Health Department Comments.....	9
5.	Publication .....	17
6.	Comments and Responses.....	20
7.	Implementation Schedule.....	38
8.	Consistency Documentation .....	N/A

**PART 3 GENERAL PLAN CONTENT CHECKLIST**

I.	Previous Wastewater Planning .....	41
II.	Physical and Demographics utilizing written description and mapping .....	43
III.	Existing Sewage Facilities in the Planning Area – Identifying the Existing Needs .....	44
IV.	Future Growth and Land Development .....	46
V.	Identify Alternative to Provide New or Improved Wastewater Disposal Facilities .....	47
VI.	Evaluation of Alternatives.....	47
VII.	Institutional Evaluation .....	49
VIII.	Implementation Schedule and Justification for Selected Technical & Institutional Alternatives .....	51
IX.	Environmental Report ( ER) generated from the UER Process .....	N/A

**Attachments**

*Table of Contents*



# *Plan Summary*

**2. PLAN SUMMARY**

**A. Identify the municipal facilities being acquired. Please include a listing of the assets and areas and municipalities that will be provided sewage services (Reference – Pa Code 25 §71.21(a)(7)(i)).**

This plan is being prepared to address the transfer of the Salem Township sanitary sewage collection system to the Berwick Area Joint Sewer Authority (BAJSA). The system is entirely located in and provides sanitary sewer service solely to Salem Township and includes:

<u>Unit</u>	<u>Quantity</u>	
8" Pipe	63,644	L.F.
10" Pipe	6,026	L.F.
12" Pipe	10,785	L.F.
Manholes	340	
Pump Stations	2	
Grinder Pumps	7	

The 2005 joinder agreement between BAJSA and Salem Township identified the interconnection of the public sewer in the Township to the sanitary sewer system in Berwick Borough as the most cost-effective method to convey the sewage generated in Salem Township to the Wastewater Treatment Plant, both owned and operated by BAJSA. The previous Act 537 Plan for Salem Township did not discuss this transfer, so this update is being prepared to address that. The sanitary sewer service area for the Township will also be better defined through this update.

There are no proposed future service areas identified in the Township, but in the event public sewer would be needed beyond the current service area boundary the Township will evaluate the needs and costs associated with that and render a decision in the best interest of Township property owners. Upon the transfer of ownership of the sanitary sewer system, BAJSA will own and maintain the existing sanitary sewer system as well as future extensions. Expansion of public sewers and/or public sewer service in the Township will require Township planning to be completed in accordance with Act 537, and BAJSA approval to proceed. There are no current or future capacity concerns within the Township or the BAJSA sewer systems nor at the Treatment Plant.

The areas of the Township outside the current sewer service area will continue to be served through on-lot sewage disposal systems in accordance with PA DEP and Salem Township rules and regulations.

**B. Identify any institutional arrangements necessary to implement the chosen alternative of acquisition of the system. Necessary institutional arrangements refers to new agreements, modifications to existing agreements, action by the PUC or other necessary legal actions necessary to implement the alternative. (Reference – Pa Code 25 §71.21(a)(7)(i)).**

Per the 2005 joinder agreement, BAJSA will own, operate and maintain the Salem Township

sanitary sewage collection system. Following the adoption of this ACT 537 Plan, Salem Township and BAJSA will complete the system permit transfer.

**C. Present the proposed purchase price and any costs of implementing the proposed acquisition. (Reference – Pa Code 25 §71.21(a)(7)(ii)).**

There is no proposed purchase price established in the existing agreement. There are no proposed agreements or other legal documents, nor any engineering analysis required, therefore any Township costs associated with the transfer will be minimal.

**D. Identify the municipal and purchasing entity commitments necessary to implement the Plan. (Reference – Pa Code 25 §71.21(a)(7)(iii)).**

The 2005 joinder agreement establishes that the municipality, Salem Township will transfer the sanitary sewage collection system to BAJSA, the owner/operator. Both the Township and the Authority commit to implementing the plan for the existing and potential future customers.

**E. Provide the schedule for implementation for the project that identifies the major milestones with dates necessary to accomplish the project to the point of operational status. (Reference – Pa Code 25 §71.21(a)(7)(iii)).**

The intermunicipal agreement between Salem Township and BAJSA will be prepared and executed by the end of 2019.

The documents requested from Salem Township will be transferred to BAJSA by March 2020.

- The agreement will address the inflow and infiltration concerns that BAJSA has. Any flow evaluation, which may or may not include flow monitoring and/or remediation techniques will be established and agreed upon by both parties.

Upon approval of the ACT 537 Plan and satisfaction of the agreement terms, the Water Quality Management Permit will be submitted to the Pa DEP and once approved, the ownership of the public sanitary sewer system will be transferred from Salem Township to BAJSA.

The system is currently fully operational and BAJSA performs the system operation and maintenance as part of their routine duties.



# *Municipal Adoption*



**RESOLUTION 8 of 2019**  
**SALEM TOWNSHIP RESOLUTION OF ADOPTION**

RESOLUTION OF THE SUPERVISORS OF SALEM TOWNSHIP, LUZERNE COUNTY PENNSYLVANIA (hereinafter "the municipality").

WHEREAS, Section 5 of the Act of January 24, 1966, P.L. 1535, No. 537, known as the "Pennsylvania Sewage Facilities Act," as amended, and the Rules and Regulations of the Department of Environmental Protection (Department) adopted thereunder, Chapter 71 of Title 25 of the **Pennsylvania Code**, requires the municipality to adopt an Official Sewage Facilities Plan providing for sewage services adequate to prevent contamination of waters and/or environmental health hazards with sewage wastes, and to revise said plan whenever it is necessary to meet the sewage disposal needs of the municipality, and

WHEREAS, Salem Township has prepared a Plan Update Revision to its Official Sewage Facilities Plan for the purpose of revising the institutional alternative related to its sewage collection and conveyance system, which includes sewage facilities for the East Berwick and Beach Haven portions of Salem Township that discharge their wastewater to the sewage collection and conveyance and treatment systems located in Berwick Borough, and

The alternative of choice to be implemented is the transfer of the ownership of the public sanitary sewage collection and conveyance system to the Berwick Area Joint Sewer Authority. The key implementation activities/dates include adoption and approval of this Plan Update Revision by Salem Township and Berwick Borough and submission and approval of the PADEP Application For Water Quality Management Permit Transfer from Salem Township to the Berwick Area Joint Sewer Authority.

WHEREAS, Salem Township finds that the Facility Plan described above conforms to applicable zoning, subdivision, other municipal ordinances and plans and to a comprehensive program of pollution control and water quality management.

NOW, THEREFORE, BE IT RESOLVED that the Supervisors of the Township of Salem hereby adopt and submit to the Department of Environmental Protection for its approval as a revision to the "Official Plan" of the municipality, the above referenced Facility Plan. The municipality hereby assures the Department of the complete and timely implementation of the said plan as required by law. (Section 5, Pennsylvania Sewage Facilities Act as amended).

I, Patricia K. Fish, Secretary, Salem Township Board of Supervisors hereby certify that the foregoing is a true copy of the Township's Resolution No. 8 of 2019, adopted October 8, 2019.

SECRETARY SIGNATURE

Patricia K. Fish  
TOWNSHIP SEAL

[Signature]  
[Signature]  
[Signature]

**Borough of Berwick**

**RESOLUTION 2019-06**

**A RESOLUTION OF THE BOROUGH OF BERWICK, COLUMBIA COUNTY,  
PENNSYLVANIA, TO ADOPT THE SALEM TOWNSHIP OFFICIAL SEWAGE FACILITIES  
PLAN UPDATE REVISION.**

**WHEREAS**, Section 5 of the Act of January 24 1966 P.L. 1535, No. 537, known as the "Pennsylvania Sewage Facilities Act," as amended, and the Rules and Regulations of the Department of Environmental Protection adopted thereunder Chapter 71 of Title 25 of the Pennsylvania Code, requires the municipality to adopt an Official Sewage Facilities Plan providing for sewage services adequate to prevent contamination of waters and/or environmental health hazards with sewage wastes, and to revise said plan whenever it is necessary to meet the sewage disposal needs of the municipality; and

**WHEREAS**, Salem Township has prepared a Plan Update Revision to its Official Sewage Facilities Plan for the purpose of revising the institutional alternative related to its sewage collection and conveyance system, which includes sewage facilities for the East Berwick and Beach Haven portions of Salem Township that discharge their wastewater to the sewage collection and conveyance and treatment systems located in Berwick Borough; and

**WHEREAS**, the alternative choice to be implemented is the transfer of the ownership of the Salem Township sewage collection and conveyance system to the Berwick Area Joint Sewer Authority. The key implementation activities/dates include adoption and approval of this Plan Update Revision by Salem Township and Berwick Borough and submission and approval of the PADEP Application for Water Quality Management Permit Transfer from Salem Township to the Berwick Area Joint Sewer Authority; and

**WHEREAS**, Berwick Borough finds that the proposal outlined for the transfer of the ownership of the Salem Township sewage collection and conveyance system to the Berwick Area Joint Sewer Authority, by Salem Township is compatible with the objectives and proposals of Berwick Borough's official Sewage Facilities Plan and conform to a comprehensive and regional program of the pollution control and water quality management.

**NOW THEREFORE BE IT RESOLVED**, that the Council of the Borough of Berwick hereby adopts the recommendations and proposal of the portions of the Salem Township Official Sewage Facilities Plan Update Revision related to the transfer of the ownership of the Salem Township sewage collection and conveyance system to the Berwick Area Joint Sewer Authority. Berwick Borough hereby adopts and submits to the Department of Environmental Protection, this resolution as part of the "Official Plan" of Salem Township.

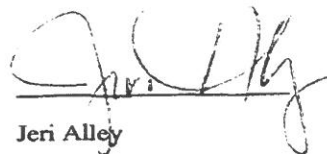
Attest:

**BOROUGH OF BERWICK:**



Damien Scoblink

Borough Manager



Jeri Alley

Council President



***Planning Commission /  
County Health Department  
Comments***

SALEM TOWNSHIP PLANNING COMMISSION  
MEETING MINUTES  
THURSDAY, July 25, 2019

The Salem Township Planning Commission met on the above date and time in the Salem Township Administration Building, 38 Bomboy Lane, Berwick, PA. Present were Board Members Ernie Ashbridge, Paul Hess, Randy Rinehimer and Robert Fisher, Township Zoning/Code Enforcement Officer Brian Rhone and Planning Commission Solicitor Attorney Anthony McDonald. Also present were Carl Rinehimer, James Atkins and Peter Denesowicz from Sunpin Solar.

The meeting was called to order at 5:30 p.m. by Chairman Ernie Ashbridge.

On a motion by Randy Rinehimer with second by Paul Hess, the minutes of the regular meeting held June 27, 2019 were approved.

The Planning Commission reviewed and discussed the Act 537 Plan for Salem Twp. sanitary Sewage System Transfer and the cover letter dated June 11, 2019 written by Andrea Martin of Barry Isett & Associates Inc., the letter from Peters Consultants for review/comment on the Salem Twp. draft of Act 537 plan dated July 8, 2019 and the letter from Salem Twp. Engineer of the Amended Act 537 Plan for Salem Twp. Sanitary Sewage System Transfer with the changes and recommendations made dated July 23, 2019.

After review and discussion of all the documents provided on a motion by Randy Rinehimer a second by Paul Hess, the Planning Commission voted 4-0 to recommend approval of the Amended Act 537 Plan for Salem Twp. Sanitary Sewage System Transfer consistent with the changes and recommendations made by the Township Engineer in a letter dated July 23, 2019 to the Board of Supervisors. A roll call vote was taken Paul Hess-Yes, Randy Rinehimer-Yes, Robert Fisher-Yes, Ernie Ashbridge-Yes.

The Planning Commission reviewed and discussed the proposed ordinance to amend the Salem Twp. zoning ordinance of March 28, 1995 as amended, to add Accessory Solar collectors and Solar Power generation facilities in the zoning ordinance.

After review and discussion of the proposed ordinance a motion by Paul Hess with a second by Randy Rinehimer, the Planning Commission voted 4-0 to recommend approval of the ordinance with the following comments:

1. Page #1 - Commercial Solar Power Generation Facilities be allowed as a conditional use in zoning districts A-1 Agricultural and C-1 Conservation.
2. Page #4 – The setback for solar collectors, all structures, equipment containers and any associated mechanical facilities shall be as set in the zoning district that its in.

A roll call vote was taken Paul Hess-Yes, Randy Rinehimer-Yes, Robert Fisher-Yes, Ernie Ashbridge-Yes.

On motion of Paul Hess with second by Randy Rinehimer, the meeting was adjourned.

Respectfully submitted,

Brian Rhone  
Zoning/Code Enforcement Officer

**SENDER: COMPLETE THIS SECTION**

- Complete items 1, 2, and 3.
- Print your name and address on the reverse so that we can return the card to you.
- Attach this card to the back of the mailpiece, or on the front if space permits.

1. Article Addressed to:

Salem Township Planning  
Commission  
38 Bombay Lane  
Berwick, PA 18603



9590 9402 4780 8344 9252 68

2. Article Number (Transfer from service label)

7017 2620 0000 2313 4943

PS Form 3811, July 2015 PSN 7530-02-000-9053

**COMPLETE THIS SECTION ON DELIVERY**

A. Signature

*Linda Mow*

- Agent
- Addressee

B. Received by (Printed Name)

Linda Mow

C. Date of Delivery

6/13/19

D. Is delivery address different from item 1?  Yes  
If YES, enter delivery address below:  No

3. Service Type

- Adult Signature
- Adult Signature Restricted Delivery
- Certified Mail®
- Certified Mail Restricted Delivery
- Collect on Delivery
- Collect on Delivery Restricted Delivery
- Insured Mail
- Insured Mail Restricted Delivery (over \$500)
- Priority Mail Express®
- Registered Mail™
- Registered Mail Restricted Delivery
- Return Receipt for Merchandise
- Signature Confirmation™
- Signature Confirmation Restricted Delivery

Domestic Return Receipt



# TOWNSHIP OF SALEM

38 Bomboy Lane  
Berwick, PA 18603  
Phone: 570.752.4399  
Fax: 570.752.4661

E-Mail: [salemtownship@pa.metrocast.net](mailto:salemtownship@pa.metrocast.net) • Website: [www.salemtownshipluzerne.info](http://www.salemtownshipluzerne.info)

July 3, 2019

I, NANCY Sborz have received the Act 537 Plan for the Salem Township Sanitary Sewage System Transfer to the Berwick Area Joint Sewer Authority and the resolution to adopt the portions related to the transfer to be reviewed by the Borough of Berwick's Planning Commission.

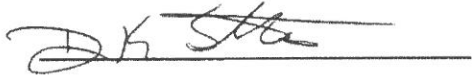
Nancy Sborz  
Signature Admin Asst.

please print name and title Admin Asst

Date: 7/3/19

June 18, 2019

I, Damien Scoblint have received the Act 537 Plan for the Salem Township Sanitary Sewage System Transfer to the Berwick Area Joint Sewer Authority and the resolution to adopt the portions related to the transfer.



Signature

please print name and title Damien Scoblint - Borough Manager

Date: June 19, 2019



**SENDER: COMPLETE THIS SECTION**

- Complete items 1, 2, and 3.
- Print your name and address on the reverse so that we can return the card to you.
- Attach this card to the back of the mailpiece, or on the front if space permits.

1. Article Addressed to:

Luzerne County Planning Commission

20 N. Pennsylvania Ave.  
Wilkes-Barre, PA 18711



9590 9402 4780 8344 9252 82

2. Article Number (Transfer from service label)

7017 2620 0000 2313 4974

PS Form 3811, July 2015 PSN 7530-02-000-9053

**COMPLETE THIS SECTION ON DELIVERY**

A. Signature

*Kathy Wood*

- Agent
- Addressee

B. Received by (Printed Name)

*Kathy Wood*

C. Date of Delivery

- D. Is delivery address different from item 1?  Yes
- If YES, enter delivery address below:  No

3. Service Type

- Adult Signature
- Adult Signature Restricted Delivery
- Certified Mail®
- Certified Mail Restricted Delivery
- Collect on Delivery
- Collect on Delivery Restricted Delivery
- Insured Mail
- Insured Mail Restricted Delivery (over \$500)
- Priority Mail Express®
- Registered Mail™
- Registered Mail Restricted Delivery
- Return Receipt for Merchandise
- Signature Confirmation™
- Signature Confirmation Restricted Delivery

Domestic Return Receipt

**SENDER: COMPLETE THIS SECTION**

- Complete items 1, 2, and 3.
- Print your name and address on the reverse so that we can return the card to you.
- Attach this card to the back of the mailpiece, or on the front if space permits.

1. Article Addressed to:

Antimonia County Planning  
Commission  
26 W. 1st St.  
Bloomsburg, PA 17815



9590 9402 4780 8344 9253 05

2. Article Number (Transfer from service label)

7017 2620 0000 2313 4967

PS Form 3811, July 2015 PSN 7530-02-000-9053

**COMPLETE THIS SECTION ON DELIVERY**

A. Signature *[Handwritten Signature]*  Agent  
 Addressee

B. Received by (Printed Name) *STEPH YOTKO* C. Date of Delivery *6-13-14*

D. Is delivery address different from item 1?  Yes  
 If YES, enter delivery address below:  No

3. Service Type
- Adult Signature
  - Adult Signature Restricted Delivery
  - Certified Mail®
  - Certified Mail Restricted Delivery
  - Collect on Delivery
  - Collect on Delivery Restricted Delivery
  - Insured Mail
  - Insured Mail Restricted Delivery (over \$500)
  - Priority Mail Express®
  - Registered Mail™
  - Registered Mail Restricted Delivery
  - Return Receipt for Merchandise
  - Signature Confirmation™
  - Signature Confirmation Restricted Delivery

Domestic Return Receipt



*Publication*

PUBLIC NOTICE is hereby given that Salem Township, Luzerne County, is preparing an Official Sewage Facilities Plan update (Plan) for the transfer of ownership of the public sewer system in the East Berwick and Beach Haven areas of the Township to Berwick Area Joint Sewer Authority, Columbia County. The assets included are the existing sewer mains, manholes and 2 pump stations located within the Township which are connected to the collection system in Berwick Borough at the municipal boundary. No new sewers or service area are proposed as a result of this Plan.

The Plan was prepared to address the planning requirements necessary for the transfer of a municipally owned wastewater collection system to an adjacent public agency as determined by the Pennsylvania Department of Environmental Protection (PADEP). Topics covered include previous wastewater planning, system description and graphical mapping of the existing assets being transferred in relation to municipal boundaries and physical characteristics, future growth and how that will be addressed, evaluation of alternatives, institutional evaluation and a description of the legal and administrative activities leading to support the implementation of the asset transfer and future ongoing operation and maintenance of the transferred assets.

There is no cost to the Township and the current user rate of \$180 per quarter is not projected to change as a result of the ownership transfer.

Upon publication of this notice, a 30-day review and comment period is in effect. The plan is available for review at your respective Municipal building during normal business hours. Interested parties can direct written comments to your respective municipalities as follows:

Patricia Fritz, Salem Township Manager  
38 Bomboy Lane  
Berwick, Pa 18603

Damien Scoblink, Borough of Berwick Manager  
1800 N. Market Street  
Berwick, PA 18603

# PRESS ENTERPRISE

3185 Lackawanna Ave  
Bloomsburg, PA 17815

Classifieds: (570) 784-6151  
Toll Free: 888-231-9767 ext 1299  
Fax: (570) 784-6152

Proof of Ad 08/29/19

## PUBLIC NOTICE

PUBLIC NOTICE is hereby given that Salem Township, Luzerne County, is preparing an Official Sewage Facilities Plan update (Plan) for the transfer of ownership of the public sewer system in the East Berwick and Beach Haven areas of the Township to Berwick Area Joint Sewer Authority, Columbia County. The assets included are the existing sewer mains, manholes and 2 pump stations located within the Township which are connected to the collection system in Berwick Borough at the municipal boundary. No new sewers or service area are proposed as a result of this Plan.

The Plan was prepared to address the planning requirements necessary for the transfer of a municipally owned wastewater collection system to an adjacent public agency as determined by the Pennsylvania Department of Environmental Protection (PADEP). Topics covered include previous wastewater planning, system description and graphical mapping of the existing assets being transferred in relation to municipal boundaries and physical characteristics, future growth and how that will be addressed, evaluation of alternatives, institutional evaluation and a description of the legal and administrative activities leading to support the implementation of the asset transfer and future ongoing operation and maintenance of the transferred assets.

There is no cost to the Township and the current user rate of \$180 per quarter is not projected to change as a result of the ownership transfer.

Upon publication of this notice, a 30-day review and comment period is in effect. The plan is available for review at your respective Municipal building during normal business hours. Interested parties can direct written comments to your respective municipalities as follows:

Patricia Fritz,  
Salem Township Manager  
38 Bomboyl Lane  
Berwick, Pa 18603

Damien Scoblink, Borough  
of Berwick Manager  
1800 N. Market Street  
Berwick, PA 18603

Account:	
Name:	PATRICIA FRITZ
Company:	SALEM TWP BOARD OF SUPERVISORS
Address:	38 BOMBOY LANE BERWICK, PA 18603
Telephone:	(570) 752-4399

Ad ID:	1177087
Description:	PUBLIC NOTICE PUBLIC NOTICE is hereb
Run Dates:	09/01/19 to 09/01/19
Class:	2
Orig User:	SSHOTWELL
Words:	289
Lines:	82
Agate Lines:	82
Depth:	9.097
Blind Box:	

<b>Total Ad Cost</b>	<b>\$190.30</b>			
<b>Amount Paid</b>	<b>\$0.00</b>			
<b>Publication</b>	<b>Start</b>	<b>Stop</b>	<b>Inserts</b>	<b>Cost</b>
Press Enterprise	09/01/19	09/01/19	1	\$190.30



# *Comments and Responses*

July 8, 2019

Ms. Gloria Bobersky, Authority Manager  
Berwick Area Joint Sewer Authority  
1108 Freas Avenue  
Berwick, PA 18603

**RE: REVIEW/COMMENT ON THE SALEM TOWNSHIP  
DRAFT ACT 537 PLAN UPDATE  
PROJECT NO. 1496-19-6**

Dear Gloria,

I am writing in reference to the above captioned project and my review of the Draft Act 537 Plan Update. I have reviewed the following:

1. Barry Isett & Associates, Inc. cover letter, dated June 11, 2019
2. Draft Act 537 Plan for Salem Township Sanitary Sewage System Transfer, dated May, 2019

I have the following comments after reviewing the cover letter:

1. It states "As per the Act, the Township will continue to be solely responsible for the decisions regarding public sanitary sewer service within the Township, including any future service area expansion". This statement needs to be revised to state "As per the Act, once Salem Township turns the sanitary sewage system over to Berwick Area Joint Sewer Authority (BAJSA), it will be BAJSA Board sole responsibility for the decisions regarding public sanitary sewer service within Salem Township, including any future service area expansion". The BAJSA Board makes the decisions how to proceed by vote. Salem Township will no longer be responsible for the decisions regarding public sanitary sewer service within Salem Township, as well as any future service area expansion other than processing sewage modules.

I have the following comments after reviewing the Draft Act 537 Plan Update:

1. Luzerne County is misspelled in Part 1 (General Information).B (Client (Municipality) Information of the Act 537 Plan Content and Environmental Assessment Checklist and needs to be revised.
2. Part 2 (Administrative Completeness Checklist of the Act 537 Plan Content and Environmental Assessment Checklist): The Checklist needs to be completed in its entirety. If the item is non-applicable, mark as N/A.

100 Robbins Avenue • Berwick, PA 18603  
Phone: (570) 752-4433 • Fax: (570) 752-4434

40 West Main Street • Bloomsburg, PA 17815  
Phone: (570) 387-0334 • Fax: (570) 387-0440

Web Site: [www.petersconsultants.com](http://www.petersconsultants.com) • E-Mail: [info1@petersconsultants.com](mailto:info1@petersconsultants.com)

3. Part 2; Plan Summary; A: Grinder Pumps 7 units does not match number of grinder pumps in I.A. Previous Wastewater Planning which states that the previously approved WQM permit plan called for the installation of 8 grinder pumps. Of the 8 locations, pumps were only installed at 6 locations during the original construction phase. One home has since been demolished, leaving 5 grinder pumps connected to the force main. This needs to be revised to show the correct amount of grinder pumps. A statement needs to be added that individual homeowners will be responsible for operation, maintenance and replacement costs and BAJSA will not be responsible for any grinder pumps.
4. Part 2; Plan Summary; A: The statement “but the decision to extend the sewers will lie solely with the Township” needs to be revised to state “once Salem Township turns the sanitary sewage system over to Berwick Area Joint Sewer Authority (BAJSA), it will be BAJSA’s sole responsibility for the decisions regarding public sanitary sewer service within Salem Township, including any future service area expansion”. The BAJSA Board makes the decisions how to proceed by vote. Salem Township will no longer be responsible for the decisions regarding public sanitary sewer service within Salem Township, as well as any future service area expansion other than processing sewage modules.
5. Part 2; Plan Summary, A: The following paragraph needs to be revised as bolded “The areas of the Township outside the current sewer service area will continue to **be** served through on-lot sewage disposal systems in accordance with **PADEP and Salem** Township rules and regulations”.
6. Part 2; Plan Summary: The following needs to be added to the Plan Summary:
  - F. **Trenches within Roadway**  
BAJSA will not be responsible for settled trenches. The Township must submit a Certified Agreement that Salem Township will be solely responsible for all roadways and trenches over the sanitary sewage lines.
  - G. **Inflow/Infiltration**  
Salem Township must submit a letter from the Township and their Engineer that no inflow/infiltration enters the sanitary sewage system and if any inflow/infiltration is identified and found in the future, Salem Township will be responsible for all costs of elimination.
7. Part 2; Municipal Adoption: Provide a sample adoption ordinance.
8. Part 2; Planning Commissions/County Health Department letters Comments: Provide the Salem Township/ Luzerne County Planning Commissions request for review letters and comments as well as the County Health Department request for review letter and comments.
9. Part 2; Publication: Provide a sample publication for adoption of the Act 537 Plan as well as proof of publication at that time.
10. Part 2; Implementation Schedule: Provide the implementation schedule to include advertising date, comment period, etc.
11. Part 2; Consistency Documentation: Provide the consistency documentation.
12. Part 3; 1; Sanitary Sewer Alignment Alterations; B Walnut Street: Provide a copy of the easement to install a gravity sewer main through the property of Mr. Kishbaugh.
13. Part 3; 1; Sanitary Sewer Alignment Alterations; C: Provide the PennDOT permits and closeout documentation from PennDOT for the gravity sewer line crossing SR 0011 to the south side for approximately 650 LF then crossing back to the north side of SR 0011.



14. Part 3; 1; Sanitary Sewer Alignment Alterations; D: Provide the approved Component 3M Module and the PADEP approval showing that the approved Public sewer service to the seasonal cottages was eliminated from the Township's Approved Act 537 service area.
15. Part 3; 1; Sanitary Sewer Alignment Alterations; E: Provide plans of the previously installed gravity sewer extension by a group of private citizens.
16. Part 3; 1; Sanitary Sewer Alignment Alterations; F: Manhole 98a, that was installed at Bodnars Ponderosa must be plugged by the Township.
17. Part 3; 2: Revise bolded header word from "That" to "This". Also, statement states that "There are no outstanding sanitary extensions or service area concerns that have not been addressed". ***Inflow and infiltration has not been addressed, storm events still cause a spike in flow at Beach Haven and East Berwick pump stations.***
18. Part 3; 3: Revised bolded header word from "That" to "This".
19. Part 3; II.A: Provide a copy of the 2005 Act 537 Report for review, BAJSA has a September 2002 Act 537 Report.
20. Part 3; III.A.1: Grinder Pumps 7 does not match number of grinder pumps in I.A. Previous Wastewater Planning which states that the previously approved WQM permit plan called for the installation of 8 grinder pumps. Of the 8 locations, pumps were only installed at 6 locations during the original construction phase. One home has since been demolished, leaving 5 grinder pumps connected to the force main. This needs to be revised to show the correct amount of grinder pumps. A statement needs to be added that individual homeowners will be responsible for operation, maintenance and replacement costs and BAJSA will not be responsible for any grinder pumps.
21. Part 3; III.A.3: "There are no known current or projected hydraulic or organic overload conditions anticipated within the Salem Township sanitary sewer system...". Inflow and infiltration has not been addressed. Also, provide the Operation and Maintenance Manual for the sewer system. BAJSA has received the Operation and Maintenance Manual for the pump stations only.
22. Part 3; V: Revise statement to the following: "... BAJSA will continue to operate and maintain the collection, conveyance and pump stations in cooperation with the Township".
23. Part 3; VI.C: BAJSA will not commit for or against future sewer service to any property within the Township and all proposed service extensions will be voted on by the BAJSA Board.
24. Part 3; VI.D: The system O&M fees, billing rates, administrative costs, repair and replacement costs and all other cost will be the responsibility of BAJSA and will be guaranteed by the full faith, credit and taxing power of Salem Township.
25. Part 3; VI.F.1: Provide the PADEP letter of satisfaction in accordance with the approved WQM Permit.
26. Part 3; VI.G: The statement "Public sewer service decisions will be made by the Township" is incorrect. Once Salem Township turns the sanitary sewage system over to Berwick Area Joint Sewer Authority (BAJSA), it will be BAJSA's sole responsibility for the decisions regarding public sanitary sewer service within Salem Township, including any future service area expansion". The BAJSA Board makes the decisions how to proceed by vote. Salem Township will no longer be responsible for the decisions

Ms. Gloria Bobersky, Authority Manager  
RE: REVIEW/COMMENT ON THE SALEM TOWNSHIP  
DRAFT ACT 537 PLAN UPDATE  
PROJECT NO. 1496-19-6

July 8, 2019  
Page 4

- regarding public sanitary sewer service within Salem Township, as well as any future service area expansions other than processing sewage modules.
27. Part 3; VII.B.2: The statement "Public sewer service decisions will be made by the Township" is incorrect. Once Salem Township turns the sanitary sewage system over to Berwick Area Joint Sewer Authority (BAJSA), it will be BAJSA's sole responsibility for the decisions regarding public sanitary sewer service within Salem Township, including any future service area expansion". The BAJSA Board makes the decisions how to proceed by vote. Salem Township will no longer be responsible for the decisions regarding public sanitary sewer service within Salem Township, as well as any future service area expansions other than processing sewage modules.
  28. Part 3; VII.B.3: The Township will not incur legal and engineering fees in the future BAJSA activities and all potential sanitary sewer service expansion will be solely handled by BAJSA.
  29. Part 3; VII.C.3: Salem Township will not retain existing rights-of-way, easements and land transfers for the sanitary sewer system in the Township. The existing rights-of-way, easements and land transfers need to be turned over to BAJSA (copies need to be provided) and any future rights-of-way, easements and land transfers will be voted on by the BAJSA Board.
  30. Part 3; VII.C.6: All Penn VEST assumption documents must be transferred to BAJSA.
  31. Part 3; VIII.A.1: The Salem Township Sanitary Sewer System has been discharging into the BAJSA sanitary sewer collection system, not Berwick Borough's.

As a general note, please provide the contract documents, construction plans, as-built plans, rehabilitation plans, change orders, PADEP sign offs, PennDOT HOP's, PennDOT closeout documentation on the HOP's, easements, operation and maintenance manual for the entire system, component 3 sewer modules, existing plans of sanitary sewer within Bower's Road, the 2005 Act 537 report, Penn VEST assumption documents and all miscellaneous paperwork for the entire system.

Provide a letter from the Township stating that BAJSA has the right to access the road rights-of way where sanitary sewers have previously been installed.

Page numbers need to be added to the Act 537 Plan Update.

This review is ongoing and not final and will be amended as information requested in this letter become available.

Sincerely,

*Dennis R. Peters*

Dennis R. Peters, P.E.  
Authority Engineer

Cc: BAJSA Board Members

1496-19-6/Correspondence/Review-Comment on Draft Act 537 Plan Update



85 South Route 100, Allentown, PA 18106  
610.398.0904 610.481.9098  
barryisett.com

**Date:** July 12, 2019  
**Project #:** 326212.006  
**Service Task:** 14

**To:** Salem Township Board of Supervisors  
**Address:** 38 Bomboy Lane, Berwick, Pa  
**From:** Andrea Martin  
**Copy to:** Patricia Fritz, manager

**RE: Salem Township Act 537 Plan Update**  
Response to Peters Consultants review letter

In June 2019, I submitted the Salem Township ACT 537 Plan Update on behalf of the Township to Berwick Borough and the Berwick Borough Planning Commission for review and comment. On July 8, 2019 I received a copy of the review letter from Peters Consultants Inc that was addressed to the Berwick Area Joint Sewer Authority.

In review of the letter, there are several minor items that can be easily addressed and some items that must be addressed as the plan moves through the review and comment process and others that should be addressed outside of the framework of the ACT 537 Plan process.

One issue that is repeated several times in the review letter that I want to address with the Township is the statement that Salem Township will have sole responsibility for decisions related to the sanitary sewer service within the Township.

I had a similar conversation on 6/27/2019 with Atty McDonald during which he informed me he was going to recommend to the Salem Township Planning Commission that the plan be rejected due to the that statement.

Initially, this statement was directed to be included in the update during an ACT 537 Plan planning meeting with representatives from the Township and Pa DEP and Isett held in October 2018. The Act itself specifically calls for municipal responsibility for sewage planning, which is the basis of the statement from Pa DEP.

In looking into this matter further, I reviewed the 2005 Joinder Agreement which includes the 1994 Pre-incorporation document to which Salem Township and BAJSA are bound.

Section 2.2 specifically states:

2.2 Any project in addition to that stated in Section 2.1 shall be undertaken only upon approval by each of the Municipalities. -

The Incorporation document continues on to state:

*Memo*

2.4 The Authority will conduct from time to time planning studies of the engineering, financial, legal and public service aspects of improving, expanding and extending the Joint System as needed.

In order to clarify this issue in the report I propose the following language revision:

“Through the proposed transfer of the ownership of the sewer system, BAJSA will own and maintain the existing sanitary sewer system as well as future extensions. Decisions on expanding public sewers and/or public sewer service in the Township will require sewer planning approval from the Township, and approval from BAJSA to proceed.”

The intention and understanding among all parties is that cooperation between the Township and BAJSA is paramount to meeting the sewage disposal needs of the Township.



85 South Route 100, Allentown, PA 18106

610.398.0904 610.481.9098

barryisett.com

**Date:** July 23, 2019

**Project #:** 326212.006

**Service Task:** 14

**Project Name:** Salem Township Act 537 Plan Review

**Location:** Berwick Area Joint Sewer Authority (BAJSA) Office

**Time:** 2:00pm

### ***Attendees:***

See attached sign in sheet

### ***Purpose:***

Review and discuss the Peters Consultants response letter to BAJSA regarding the draft Salem Township ACT 537 Plan, dated June 2019.

### ***Minutes:***

## Cover Letter Comments

### Item #1:

The meeting began with addressing the first comment in the 7-8-2019 review letter (letter attached for reference) regarding the exception to the statement "as per the Act, the Township will continue to be solely responsible for the decisions regarding public sanitary sewer service within the Township, including any future service area expansion".

Barry Isett (Mrs. Martin) indicated that a memo was prepared and sent to the Township on 7-12-2019, which was subsequently sent to BAJSA (Ms. Bobersky) and the solicitor (Atty McDonald) that addresses this concern. Engineer Peters and members of the BAJSA Board indicated that they have not seen this memo. Copies were made for those in attendance and after some discussion it was determined that the proposed language addressed the concerns that BAJSA and their representatives had with the original statement. Mrs. Martin indicated that the plan sections that include the statement of responsibility for sewage planning in the Township would be revised as stated below:

"Upon the transfer of ownership of the sanitary sewer system, BAJSA will own and maintain the existing sanitary sewer system as well as future extensions. Expansion of public sewers and/or public sewer service in the Township will require Township planning to be completed in accordance with Act 537, and BAJSA approval to proceed."

## *Memorandum of Meeting*

## Draft ACT 537 Plan Comments

1. The spelling of Luzerne County will be corrected.
  2. The Checklist will be completed once the plan is finalized to reflect the actual page numbers in the final document.
  3. The grinder pump count is correct, there are 2 grinder pumps on Towpath lane and 5 along SR 11. The statement regarding the ownership of the grinder pumps will be addressed in the plan such that the homeowners are responsible for the operation maintenance and replacement costs. Barry Isett (Mr. Garman) noted that the Authority is responsible to have at least one spare grinder pump per every 50 units as per the Pa DEP Domestic Wastewater Facility Design Manual section 29.12.b.(8). This will be included in the plan and addressed in a future Salem Township-BAJSA Service Agreement. Ms. Bobersky was able to confirm that BAJSA does have one spare pump on hand.
  4. This item is addressed under Item #1 in the cover letter comments.
  5. The clarification edits as suggested by Mr. Peters will be included.
  6. (F) The issue regarding trench responsibility will be addressed in an agreement. Likewise, the agreement will address access for BAJSA to the Salem Township sewer system in public roads and R-O-W.
  6. (G) The issue regarding I&I needs to further be discussed and addressed. Mr. Peters stated in the letter that No I&I would be acceptable and if any is identified and enters the system, Salem Township would be responsible for all costs of elimination. Mrs. Martin noted that it is virtually impossible to have a sanitary sewer system with no I&I present, but it would have to be within reason. The level of reasonableness needs to be discussed further. Isett had received some flow data from the pump stations a few years ago and did a review/evaluation of the data at that time. The most recent inspections of the system with Pa DEP resulted in some televising of the system and subsequent manhole and lateral repairs. It is the feeling of the township that this work eliminated a fair amount of the I&I sources, particularly in the Beach Haven area.  
The Township requested the most recent flow records and other available data from the pump stations for Isett to review and evaluate. Ms. Bobersky indicated she would have the data pulled together immediately. Isett will determine flows from the pump stations relative to the rainfall records and calculate the amount of I&I in the system. There was some discussion on what DEP/EPA consider "allowable" vs "excessive" I&I and Isett will include that information in the evaluation. This will be included in the evaluation.
- The ACT 537 plan will include a discussion on I&I and the specifics of this item will be addressed in the Salem-BAJSA Agreement.
7. A draft ordinance was provided to Berwick Borough and copies were handed out at the meeting (copy attached for reference).
  - 8 – 11. These items will be included in the final report as we move through the approval process.
  12. The Township will review their records and forward all easement and access documents to BAJSA. This item will be included in the agreement.
  13. The Township will provide BAJSA with all available construction record documents and permits from the original project as well as the subsequent rehabilitation and extension projects.

14. The Township will provide BAJSA with all planning module documents for the Towpath Lane service area revision.

15. The service to Bowers Lane area that was installed by private citizens was discussed. Ms. Bobersky would Contact one of the residents and ask what documentation they may have concerning the construction and the operation and maintenance of this extension as well as review the BAJSA files and Ms. Fritz (Salem Township) would review their files to locate any service agreements or construction information. In any event, this extension was never conveyed to the Township and BAJSA will not accept ownership of these sewers.

16. Mrs. Martin noted that MH 98A was plugged during the last rehabilitation project and that information would be turned over to BAJSA.

17 & 18. Revisions will be made in the plan.

19. The 2005 ACT Plan reference in the draft document reflects the date of approval of the 2002 Salem Township Act 537 Plan. The Draft plan shall be revised to reflect the preparation date of 2002.

20. This item was previously addressed in discussion – there are 5 grinder pumps along SR 11 and 2 in Towpath Lane.

21. The I&I issue was previously discussed. The Plan will be revised accordingly and an evaluation will be conducted by Isett and addressed in the Salem-BAJSA agreement.

22. The statement will be revised.

23. Addressed previously in the meeting discussion and will be revised accordingly.

24. This item will be included in the plan.

25. This item will be provided by the Township.

26. Addressed previously in the meeting discussion and will be revised accordingly.

27. Addressed previously in the meeting discussion and will be revised accordingly.

28. The Act 537 Plan addresses all areas of municipal sewage disposal planning which will include on-lot, private and community treatment systems, therefore the Township may incur some legal and engineering fees related to those systems in the future.

29. The Township will provide easements and R-O-W access records to BAJSA as requested.

30. The Township will contact PennVEST to prepare the assumption documents.

31. This change will be made in the plan.

All items in the response letter were reviewed and discussed.

These meeting minutes will serve as correspondence to the municipalities and their respective planning commissions for review and comment. The revisions as noted here will be made as soon as reasonably possible and the revised Draft ACT 537 Plan will be forwarded to the Planning Commissions and the municipalities for additional review and comment.

Mrs. Martin noted that the planning commission is an advisory body that can issue comments/recommendations but does not issue official approval or denial of the plan. Mr. Ashbridge indicated that the Planning Commission(s) will review the meeting minutes and consider issuing a recommendation letter with the condition that the items in the meeting minutes be addressed in the revised draft plan. Mrs. Martin noted that the I&I discussion will likely be the biggest hurdle in completing the revisions prior to the August 13<sup>th</sup> Salem Township Board of Supervisors meeting. Some parts of the

## *Memorandum of Meeting*

plan have already been revised and copies of the revisions were handed out to the attendees (copy attached for reference). Mrs. Martin will continue to make the updates and issue the revised draft as soon as possible for review and comment. Once the municipalities accept to the plan, the 30-day public comment period will be advertised and initiated. The municipalities officially adopt the plan following the close of the comment period and once comments are considered and resolved.

***Action:***

Isett will:

1. Prepare these meetings minutes and prepare a list of items for the Salem-BAJSA agreement.
2. Revise the plan in accordance with the meeting discussion and resubmit for comment.
3. Analyze the pump station records and prepare I&I evaluation.
4. Gather the sewer system record information for BAJSA.

BAJSA will:

1. Forward the pump station flow records for 2019 to Mrs. Martin for I&I evaluation.
2. Check the records for information on the Bowers Road sewer extension.

Salem Township will:

1. Gather the easement/R-O-W information together for BAJSA.
2. Gather the permits/approvals for BAJSA.
3. Contact PennVEST to prepare the assumption documents.
4. Check with Atty McDonald for the status of the lateral inspection ordinance.

**Recorded by:**

Andrea Martin, Barry Isett and Associates

**Copies:** All attendees, Salem Township Board of Supervisors & Planning Commission, Berwick Borough Council & Planning Commission, Atty McDonald



7/23/19

# Salem Twp - BAJSA

## Act 537 Plan Review

<u>Name</u>	<u>Company</u>	<u>email</u>
Andrea Martin	Barry Issett + Assoc	amartin@barryissett.com
Melissa Fisher	BAJSA	mdfisher@pa.metrocast.net
Scott Bower	BAJSA	SBOWERSR@VERIZON.NET
Dennis Peters	Peters Consultants, Inc	dpeters@petersconsultants.com
Gloria Bobersky	BAJSA	glbobersky@verizon.net
GEORGE WELLIVER	BAJSA	CHARMAN OF BOARD
E. JAMES Seeley	BAJSA	Board Member
ERNEST ASHBRIDGE	BAJSA	Board Member
Harry Garman	Barry Issett + Assoc.	hgarman@barryissett.com
Patricia Fritz	Salem Twp	salentenships@pa.metrocast.net

# PETERS CONSULTANTS, INC.

CONSULTING ENGINEERS/LAND SURVEYORS

---

September 11, 2019

Ms. Gloria Bobersky, Authority Manager  
Berwick Area Joint Sewer Authority  
1108 Freas Avenue  
Berwick, PA 18603

**RE: REVIEW/COMMENT ON THE SALEM TOWNSHIP  
DRAFT ACT 537 PLAN UPDATE, DATED 08-09-2019  
PROJECT NO. 1496-19-6**

Dear Gloria,

I am writing in reference to the above captioned project and my review of the Draft Act 537 Plan Update, dated August 9, 2019. I have reviewed the following:

1. Barry Isett & Associates, Inc. Memorandum of Meeting, dated July 23, 2019
2. Draft Act 537 Plan for Salem Township Sanitary Sewage System Transfer, dated August 9, 2019

I have the following comments after reviewing the Draft Act 537 Plan Update dated August 9, 2019:

1. *Luzerne County is misspelled in Part 1 (General Information).* Confirmed the spelling of Luzerne County has been corrected.
2. *Part 2 (Administrative Completeness Checklist of the Act 537 Plan Content and Environmental Assessment Checklist).* The Checklist must be completed once the Final Plan is finalized to reflect the actual page numbers in the final document. **NOTED.**
3. *Part 2; Plan Summary; A.* I agree the grinder pump count is correct; there are 2 grinder pumps on Towpath Lane and 5 grinder pumps along State Route 0011. The statement regarding the ownership of the grinder pumps must be addressed in the Final Plan stating that the homeowners are responsible for the operation maintenance and replacement costs. **NOTED.**
4. *Part 2; Plan Summary; A.* Confirmed this item is addressed and corrected under Item #1 in the cover letter comments.
5. *Part 2; Plan Summary, A.* The clarification edits as suggested by me have been included and/or have been corrected.
6. *Part 2; Plan Summary (F) Trenches within Roadway.* The issue regarding trench responsibility must be addressed in an Agreement. The Agreement will also address access for BAJSA to the Salem Township sewer system in public roads and Right-of-Ways. **NOTED.**  
*(G) Inflow/Infiltration.* The issue regarding Inflow & Infiltration needs to be further discussed and addressed. The ACT 537 Final Plan must include the conclusion and the specifics of this item and will need to be addressed in the Salem - BAJSA Agreement.

- **The review of the pump station records will be addressed under separate cover and discussed in the Plan and the Agreement.**

100 Robbins Avenue • Berwick, PA 18603 | 40 West Main Street • Bloomsburg, PA 17815  
570-752-4433  
www.petersconsultants.com

7. **Part 2; Municipal Adoption.** A draft ordinance was provided and reviewed, and found to be acceptable. – **Awaiting finalized signed ordinance from Berwick Borough. Anticipated to be received by October 28<sup>th</sup>.**
8. **Part 2; Planning Commissions/County Health Department letters Comments.** The Planning Commissions/County Health Department Letters Comments must be included the final draft. **Included.**
9. **Part 2; Publication.** The Publication and proof of publication must be included the final draft. **Included.**
10. **Part 2; Implementation Schedule.** The Implementation Schedule must be included the final draft. – **NOTED.**
11. **Part 2; Consistency Documentation.** The Consistency Documentation must be included the final draft. **NOTED. No review comments from any municipality or planning agency, nor public comments were received as part of the plan review process.**
12. **Part 3; 1; Sanitary Sewer Alignment Alterations; B Walnut Street.** The Township needs to review their records and forward all easement and access documents to BAJSA, which will then be included in the Agreement. – **Relative to the agreement, not the ACT 537 Plan.**
13. **Part 3; 1; Sanitary Sewer Alignment Alterations; C.** The Township needs to provide BAJSA with all available construction record documents and permits from the original project as well as the subsequent rehabilitation and extension projects. – **Relative to the agreement, not the ACT 537 Plan.**
14. **Part 3; 1; Sanitary Sewer Alignment Alterations; D.** The Township needs to provide BAJSA with all planning module documents for the Towpath Lane service area revision. – **Relative to the agreement, not the ACT 537 Plan.**
15. **Part 3; 1; Sanitary Sewer Alignment Alterations; E.** I agree/confirm the extension by private citizens on Bowers Lane has been conveyed to BAJSA.
16. **Part 3; 1; Sanitary Sewer Alignment Alterations; F.** Ms. Andrea Martin, EIT, Barry Isett & Associates, has noted that MH 98A was plugged during the last rehabilitation project and that information needs to be supplied to BAJSA. – **Included in rehab records.**
17. **Part 3; 2.** Confirmed “That” to “This” corrections have been made. **Inflow and infiltration must be addressed and eliminated prior to consideration for turning over the system to BAJSA, as storm events still cause a spike in flow at Beach Haven and East Berwick pump stations.**
  - **The review of the pump station records will be addressed under separate cover and discussed in the Plan and the Agreement.**
18. **Part 3; 3.** Confirmed “That” to “This” corrections have been made.
19. **Part 3; II.A.** The Draft Plan must be revised to reflect the preparation date of the 2002 Act 537 Report. **NOTED.**
20. **Part 3; III.A.1.** Number of Grinder Pumps; this item was previously addressed and corrected.
21. **Part 3; III.A.3.** The Inflow & Infiltration issue was previously discussed and **must be addressed and eliminated prior to consideration for turning over the system to BAJSA.**
  - **The review of the pump station records will be addressed under separate cover and discussed in the Plan and the Agreement.**
22. **Part 3; V.** Confirmed the revision “BAJSA will continue to operate and maintain the collection, conveyance and pump stations in cooperation with the Township” has been completed.
23. **Part 3; VI.C.** Confirmed this matter was discussed and addressed in the previous meeting and will

need to be revised accordingly prior to Final Plan. **NOTED.**

24. **Part 3; VI.D.** The system O&M fees, billing rates, administrative costs, repair and replacement costs and all other costs will be the responsibility of BAJSA and will be guaranteed by the full faith, credit and taxing power of Salem Township and this statement needs to be included in the Final Plan. **NOTED.**
25. **Part 3; VI.F.1.** The PADEP letter of satisfaction in accordance with the approved WQM Permit must be provided by Salem Township to BAJSA prior to Final Plan. **The Township will have the documentation from PA DEP submitted to BAJSA prior to the system transfer, as part of the agreement.**
26. **Part 3; VI.G.** Once Salem Township turns the sanitary sewage system over to Berwick Area Joint Sewer Authority (BAJSA), it will be BAJSA's sole responsibility for the decisions regarding public sanitary sewer service within Salem Township, including any future service area expansion and this must be stated in the Final Plan.

**As agreed upon at the meeting on 7-23-2019, the ACT 537 Plan was revised to state:**

“Upon the transfer of ownership of the sanitary sewer system, BAJSA will own and maintain the existing sanitary sewer system as well as future extensions. Expansion of public sewers and/or public sewer service in the Township will require Township planning to be completed in accordance with Act 537, and BAJSA approval to proceed.”

27. **Part 3; VII.B.2.** Once Salem Township turns the sanitary sewage system over to Berwick Area Joint Sewer Authority (BAJSA), it will be BAJSA's sole responsibility for the decisions regarding public sanitary sewer service within Salem Township, including any future service area expansion and this must be stated in the Final Plan.

**As agreed upon at the meeting on 7-23-2019, the ACT 537 Plan was revised to state:**

“Upon the transfer of ownership of the sanitary sewer system, BAJSA will own and maintain the existing sanitary sewer system as well as future extensions. Expansion of public sewers and/or public sewer service in the Township will require Township planning to be completed in accordance with Act 537, and BAJSA approval to proceed.”
















28. **Part 3; VII.B.3.** It is agreed that Salem Township may incur some legal and engineering fees related to on-lot, private and community treatment systems in the future.
29. **Part 3; VII.C.3.** Salem Township will not retain existing rights-of-way, easements and land transfers for the sanitary sewer system in the Township. The existing rights-of-way, easements and land transfers will be turned over to BAJSA and will be addressed in the Salem - BAJSA Agreement. Any future rights-of-way, easements and land transfers will be voted on by the BAJSA Board. – **How do the easements legally get transferred?**
30. **Part 3; VII.C.6.** All Penn VEST assumption documents must be transferred to BAJSA and needs to be addressed in the Salem - BAJSA Agreement. – **Patty is checking on these**
31. **Part 3; VIII.A.1.** Confirmed the plan has been corrected to state the Salem Township Sanitary Sewer System discharges into the BAJSA sanitary sewer collection system.

As a general note, please provide the contract documents, construction plans, as-built plans, rehabilitation plans, change orders, PADEP sign offs, PennDOT HOP's, PennDOT closeout documentation on the HOP's, easements, operation and maintenance manual for the entire system, component 3 sewer modules, existing plans of sanitary sewer within Bower's Road, the 2005 Act 537 report, Penn VEST

assumption documents and all miscellaneous paperwork for the entire system.

**To date I have gathered the following documents:**

Name

-  2-7-2019 DEP Final Site Visit Report (002).pdf
-  2013-03-13\_Sanitary\_PDFs - Shortcut
-  2016-10-20\_Inspection\_Set - Shortcut
-  2018-04-04\_DEP\_Seybert\_Module\_Approval.pdf
-  2018-09-14 DEP punch list.pdf
-  2018-09-24 Low Pressure FM - As Built Plans.pdf
-  20180829\_Sewer\_Punchlist.pdf
-  20190208\_Salem Township - Luzerne Co. - PENNVEST M.E. #71332 - Final Construction Insp...
-  Closed HOP Permit-04058704 .pdf
-  E Tenth St.pdf
-  Pages from E Tenth St.pdf
-  Project Permits
-  Salem\_Township-Sewer-OM\_Manual.pdf
-  section of ACT.docx
-  Televising records - Shortcut

Obtain a letter from the Township stating that BAJSA has the right to access the road rights-of way where sanitary sewers have previously been installed and a letter that BAJSA is not responsible for any trench settlement issues where sanitary sewers have been installed. ← **This will be in the agreement**

This review is ongoing and not final and will be amended as information requested in this letter becomes available.

Sincerely,



Dennis R. Peters, P.E.  
Authority Engineer

Cc: BAJSA Board Members

*1496-19-6/Correspondence/Review-Comment on Draft Act 537 Plan Update, Dated 8-9-2019*



SETTLED 1786  
**BOROUGH OF BERWICK**  
CITY HALL  
1800 NORTH MARKET STREET  
BERWICK, PENNSYLVANIA 18603-3792  
TELEPHONE: 570-752-2723 FAX: 570-752-2726

October 23, 2019

To Whom It May Concern:

Please be advised that the Borough of Berwick received no public comments during the advertised public comment period relating to adopting the Salem Township Official Sewage Facilities Plan Update Revision. As such, Resolution 2019-06 was passed by the Borough Council, adopting the same.

Please feel free to contact the Borough of Berwick at your convenience if any follow-up information is required.

Respectfully,

Damien K. Scoblink  
Borough Manager



## TOWNSHIP OF SALEM

38 Bomboy Lane  
Berwick, PA 18603  
Phone: 570.752.4399  
Fax: 570.752.4661

*E-Mail: [salemtownship@pa.metrocast.net](mailto:salemtownship@pa.metrocast.net) • Website: [www.salemtownshippluzerne.info](http://www.salemtownshippluzerne.info)*

October 9, 2019

To Whom It May Concern:

Please be advised that Salem Township received no public comments during the advertised public comment period related to the township adopting the Official Sewer Facilities Plan Update Revision.

If you have any question please feel free to contact me.

Sincerely,

Patricia K. Fritz  
Manager



# *Implementation Schedule*



---

## Implementation Schedule

---

Upon approval of the ACT 537 Plan and satisfaction of the agreement terms, the Water Quality Management Permit will be submitted to the Pa DEP and once approved, the ownership of the public sanitary sewer system will be transferred from Salem Township to BAJSA.

The system is currently fully operational and BAJSA performs the system operation and maintenance as part of their routine duties.

### Anticipated Timeline of Milestones

Submit ACT 537 Plan to Pa DEP	Dec 2019
Receive Plan Approval	April 2020
Prepare and execute a new intermunicipal agreement	April 2020
Transfer documents to BAJSA	May 2020
Prepare and submit WQM Part II permit	May 2020
Finalize System Transfer	June 2020



# *Consistency Documentation*



# *Plan Content*

**Part #3 - General  
Plan Content  
Checklist**

---

## I. Previous Wastewater Planning

---

### I.A Identify, describe, and briefly analyze all past wastewater planning for its impact on the current planning effort

#### 1. Previously undertaken under the Pennsylvania Sewage Facilities Act (Act). (Reference – Act 537, 35 P.S. §750.5(d)(1)).

During the study period for the Act 537 Plan update for Salem Township, which was finalized in 2002 and approved in 2005, areas of the Township were identified as having a need for a central sewage collection and conveyance system for both environmental and public health concerns. The Berwick Area Joint Sewer Authority (BAJSA) had sufficient capacity in their collection and conveyance system and at the Wastewater Treatment Plant, therefore it was determined that the most cost-effective solution was to install a public sanitary sewage collection system in the Township to discharge to the BAJSA system.

The layout for the public sanitary sewer system was apparently based off the Act 537 plan service area but for a variety of reasons during the design and construction phase, certain sections of the Township and even individual properties were arbitrarily eliminated or the status for service changed with little regard for what was shown in the permitted set of plans.

#### SR 11 Low Pressure Force Main/Grinder Pumps/Seybert Property

The original Water Quality Management (WQM) permit plan called for a two-inch, low-pressure force main to be installed along the north side of SR 0011, between Station 106+50 (approximate) and MH 127 and an 8-inch gravity line to be installed between manholes 127 and 124. During construction, for unknown reasons, the 2" force main was eliminated from the project and the grinder pumps were instead connected directly to the 8" force main which carries the discharge from the pump station.

The WQM permit was revised to construct a modified version of the previously approved 2" Low-pressure force main along Salem Boulevard, SR 0011, in Salem Township. The revision differed from the original plan in that the proposed 2" low-pressure force main connects directly to MH 124, thereby eliminating the 8" gravity sewer main between manhole 127 and 124 from the original design plans.

The previously approved WQM permit plan called for the installation of 8 grinder pumps along SR 11. Of the 8 locations, pumps were only installed at 6 locations during the original construction phase. One home has since been demolished, leaving 5 grinder pumps connected to the force main in SR 11. Consequently, the approved plan wouldn't be fully constructed, because it is not realistic to install service to grinder pumps at properties that will not be developed.

- A. A mining permit exists for an area that was once a residential use, therefore there is not a need for sewage facilities for this expanded use associated with the Riverview Block Plant.
- B. The current residential property at 1575 Salem Boulevard (Seybert Property) has been tested and it was determined that a suitable on-lot replacement sewage disposal area is available should there be operational issues with the on-lot disposal system (OLDS) at a later date.

Sanitary Sewer Alignment Alterations:

- A. An additional gravity main extension was installed to serve 1045 5th Street.
  - B. Walnut St: Mr. Kishbaugh offered to allow a gravity sewer main to be installed through his property to eliminate approx. 1,000 LF of sewer along SR 0011. This main has access from Walnut Street.
  - C. The sewer main alignment along SR 0011 near the PPL substation had to be altered during construction due to a previously unknown substation setback requirement. This alignment change resulted in the gravity sewer line crossing SR 0011 to the south side for approximately 650 LF then crossing back to the north side of SR 0011. Despite the longer alternate alignment, sewer service to all properties along the northside was maintained.
  - D. Despite being on the plans for the original design, the 2" low-pressure line and grinder pumps intended to serve the houses on Towpath Lane was eliminated from the construction plans when the project was rebid. The line was designed and installed at a later date by a different engineer and contractor. 2 Grinder pumps were installed as part of this work. The previously approved public sewer service to the seasonal cottages was eliminated from the Township's Approved Act 537 service area and consequently removed from the scope of work with an approved Component 3M Module.
  - E. The sewer main alignment on Bowers Road was changed during construction to eliminate some unnecessary manholes. The extent of the approved gravity sewer service area was also reduced. The Township discovered that there was a gravity extension previously installed by a group of private citizens to connect to the Berwick Borough system due to their failing OLDS. This work was coordinated directly between the homeowners and BAJSA.
  - F. At the request of the Bodnars, the contractor installed an additional MH (98a) downstream of the Bonderosa Campground that connects to MH 98 in SR 0011. Although the owner had contemplated future expansion, this area is not designated for public sewer service in the Township's Approved Act 537 plan. Consequently, this manhole was be plugged to prohibit any future illicit discharges into the public sewer system.
2. **This has not been carried out according to an approved implementation schedule. (Reference – 25 Pa Code §71.21(a)(5)(i)(A-D)).**

*There is no approved implementation schedule for any sanitary sewer extensions or service area revisions. Likewise, there are no sewer extensions or service area revisions proposed as part of the implementation schedule set forth in this plan.*

3. **This is anticipated or planned by applicable sewer authorities or approved under a Chapter 94 Corrective Action Plan. (Reference – 25 Pa Code §71.21(a)(5)(i)(A&B)).**

There are no anticipated or planned sanitary sewer extensions within Salem Township.

4. **Through planning modules for new development, planning “exemptions” and addenda. (Reference – 25 Pa Code §71.21(a)(5)(i)(A)).**

There are no anticipated or planned sanitary sewer extensions within Salem Township.

---

## **II. Physical and Demographic Analysis utilizing written description and mapping**

---

*(All items listed below require maps, and all maps should show all current lots and structures and be of appropriate scale to clearly show significant information).*

**II.A Identification of planning area(s), municipal boundaries, Sewer Authority/Management Agency service area boundaries. (Reference-Title 25, §71.21.a.1.i).**

This was addressed in the 2002 Act 537 Report, Section II.A.

**II.B Identification of physical characteristics (streams, lakes, impoundments, natural conveyance, channels, drainage basins in the planning area). (Reference-Title 25, §71.21.a.1.ii).**

This was addressed in the 2002 Act 537 Report, Section II.B.

**II.C. Soils - Analysis with description by soil type and soils mapping for areas not presently served by sanitary sewer service. Show areas suitable for in-ground onlot systems, elevated sand mounds, individual residential spray irrigation systems, and areas unsuitable for soil dependent systems. (Reference-Title 25, §71.21.a.1.iii). Show Prime Agricultural Soils and any locally protected agricultural soils. (Reference-Title 25, §71.21.a.1.iii).**

This was addressed in the 2002 Act 537 Report, Section II.C.

**II.D. Geologic Features - (1) Identification through analysis, (2) mapping and (3) their relation to existing or potential nitrate-nitrogen pollution and drinking water sources. Include areas where existing nitrate-nitrogen levels are in excess of 5 mg/L. (Reference-Title 25, §71.21.a.1.iii).**

This was addressed in the 2002 Act 537 Report, Section II.D.

**II.E. Topography - Depict areas with slopes that are suitable for conventional systems; slopes that are suitable for elevated sand mounds and slopes that are unsuitable for onlot systems. (Reference-Title 25, §71.21.a.1.ii).**

This was addressed in the 2002 Act 537 Report, Section II.E.

**II.F. Potable Water Supplies - Identification through mapping, description and analysis. Include public water supply service areas and available public water supply capacity and aquifer yield for groundwater supplies. (Reference-Title 25 §71.21.a.1.vi). Section V.C. of the Planning Guide.**

This was addressed in the 2002 Act 537 Report, Section II.F.

**II.G. Wetlands-Identify wetlands as defined in Title 25, Chapter 105 by description, analysis and mapping. Include National Wetland Inventory mapping and potential wetland areas per USDA, SCS mapped hydric soils. Proposed collection, conveyance and treatment facilities and lines must be located and labeled, along with the identified wetlands, on the map. (Reference-Title 25, §71.21.a.1.v). Appendix B, Section II.I of the Planning Guide.**

This was addressed in the 2002 Act 537 Report, Section II.G.

---

### III. Existing Sewage Facilities in the Planning Area – Identifying the Existing Needs

---

**III.A. Identify, map and describe municipal and non-municipal, individual and community sewerage systems in the planning area.**

**III.A.1. Location, size and ownership of treatment facilities, main intercepting lines, pumping stations and force mains including their size, capacity, point of discharge. Also include the name of the receiving stream, drainage basin, and the facility's effluent discharge requirements. (Reference-Title 25, §71.21a.2.i.A).**

Currently, there are three privately owned wastewater collection and treatment systems within the Township and one public collection and conveyance system. The private wastewater collection systems are discussed in the 2002 Act 537 Plan Section III.A.1. The Public wastewater collection and conveyance system consist of:

Unit	Quantity
8" Pipe	63,644 L.F.
10" Pipe	6,026 L.F.
12" Pipe	10,785 L.F.
Manholes	340
Pump Stations	2
Grinder Pumps	7

Refer to Plan maps for the location of the existing facilities mentioned above.

**III.A.2 A narrative and schematic diagram of the facility's basic treatment processes including the facility's NPDES permitted capacity, and the Clean Streams Law permit number. (Reference-Title 25, §71.21.a.2.i.A).**

N/A

**III.A.3. A description of problems with existing facilities (collection, conveyance and/or treatment), including existing or projected overload under Title 25, Chapter 94 (relating to municipal wasteload management) or violations of the NPDES permit, Clean Streams Law permit, or other permit, rule or regulation of DEP. (Reference-Title 25, §71.21.a.2.i.B).**

As per the most recent Chapter 94 Report that Salem Township has received from BAJSA, there are no known current or projected hydraulic or organic overload conditions anticipated within the Salem Township sanitary sewer system, or any conditions that would cause an NPDES permit violation, or any other permit, rule or regulation violation.

BAJSA has expressed some concerns over the discharge flows from the pump stations during and following heavy wet weather rain events. The Township has investigated and remediated several sources of I&I, particularly in the Beach Haven area of the Township. The impact of I&I will continue to be evaluated and will be addressed in a developing Intermunicipal Agreement between BAJSA and Salem Township.



The Township has developed an Operation and Maintenance Manual for BAJSA's use in operating and maintaining the sewer system.

- III.A.4. Details of scheduled or in-progress upgrading or expansion of treatment facilities and the anticipated completion date of the improvements. Discuss any remaining reserve capacity and the policy concerning the allocation of reserve capacity. Also discuss the compatibility of the rate of growth to existing and proposed wastewater treatment facilities. (Reference-Title 25, §71.21.a.4.i & ii).**

Not Applicable

- III.A.5. A detailed description of the municipality's operation and maintenance requirements for small flow treatment facility systems, including the status of past and present compliance with these requirements and any other requirements relating to sewage management programs. (Reference-Title 25, §71.21.a.2.i.C).**

Not Applicable

- III.A.6. Disposal areas, if other than stream discharge, and any applicable groundwater limitations. (Reference-Title 25, §71.21.a.4.i & ii).**

Sanitary sewage is transported to the BAJSA collection system where it is conveyed to the Wastewater Treatment plant. The WWTP discharges to Susquehanna River.

- III. B. Using DEP's publication titled *Sewage Disposal Needs Identification*, identify, map and describe areas that utilize individual and community onlot sewage disposal and, unpermitted collection and disposal systems ("wildcat" sewers, borehole disposal, etc.) and retaining tank systems in the planning area including:**

- III.B. 1. The types of on-lot systems in use. (Reference-Title 25, §71.21.a.2.ii.A).**

Not Applicable

- III.B.2. A sanitary survey complete with description, map and tabulation of documented and potential public health, pollution, and operational problems (including malfunctioning systems) with the systems, including violations of local ordinances, the Sewage Facilities Act, the Clean Stream Law or regulations promulgated thereunder. (Reference-Title 25, §71.21.a.2.ii.B).**

Not Applicable

- III.B.3. A comparison of the types of on-lot sewage systems installed in an area with the types of systems which are appropriate for the area according to soil, geologic conditions, topographic limitations sewage flows, and Title 25 Chapter 73 (relating to standards for sewage disposal facilities). (Reference-Title 25, §71.21.a.2.ii.C).**

Not Applicable

- III.B.4. An individual water supply survey to identify possible contamination by malfunctioning on-lot sewage disposal systems consistent with DEP's Sewage Disposal Needs Identification publication. (Reference-Title 25 §71.21.a.2.ii.B).**

Not Applicable

- III.B.5. Detailed description of operation and maintenance requirements of the municipality for individual and small volume community on-lot systems, including the status of past and present compliance with these requirements and any other requirements relating to sewage management programs. (Reference-Title 25, §71.21.a.2.i.C).**

Not Applicable

- III.C. Identify wastewater sludge and septage generation, transport and disposal methods. Include this information in the sewage facilities alternative analysis including:**

- III.C.1. Location of sources of wastewater sludge or septage (Septic tanks, holding tanks, wastewater treatment facilities). (Reference-Title 25 §71.71).**

Not Applicable

- III.C.2. Quantities of the types of sludges or septage generated. (Reference-Title 25 §71.71).**

Not Applicable

- III.C.3. Present disposal methods, locations, capacities and transportation methods. (Reference-Title 25 §71.71)**

Not Applicable

---

#### **IV. Future Growth and Land Development**

---

- IV.A. Identify and briefly summarize all municipal and county planning documents adopted pursuant to the Pennsylvania Municipalities Planning Code (Act 247).**

- IV.A.1. All land use plans and zoning maps that identify residential, commercial, industrial, agricultural, recreational and open space areas. (Reference-Title 25, §71.21.a.3.iv).**

Not Applicable

- IV.A.2. Zoning or subdivision regulations that establish lot sizes predicated on sewage disposal methods. (Reference – Title 25§71.21.a.3.iv).**

Not Applicable

- IV.A.3. All limitations and plans related to floodplain and stormwater management and special protection (Ch. 93) areas. (Reference-Title 25 §71.21.a.3.iv) Appendix B, Section II.F of the Planning Guide.**

Not Applicable

- IV.B. Delineate and describe the following through map, text and analysis.**

USGS Maps of the service area are included in Attachments

- IV.B.1. Areas with existing development or plotted subdivisions. Include the name, location, description, total number of EDUs in development, total number of EDU's currently**

developed and total number of EDUs remaining to be developed (include time schedule for EDUs remaining to be developed). (Reference-Title 25, §71.21.a.3.i).

Not Applicable

**IV.B.2. Land use designations established under the Pennsylvania Municipalities Planning Code (35 P.S. 10101-11202), including residential, commercial and industrial areas. (Reference-Title 25,§71.21.a.3.ii). Include a comparison of proposed land use as allowed by zoning and existing sewage facility planning. (Reference-Title 25, §71.21.a.3.iv).**

Not Applicable

**IV.B.3. Future growth areas with population and EDU projections for these areas using historical, current and future population figures and projections of the municipality. Discuss and evaluate discrepancies between local, county, state and federal projections as they relate to sewage facilities. (Reference – Pa Code 25, §71.21.a.1.iv). (Reference-Title 25, §71.21.a.3.iii).**

Not Applicable

**IV.B.4. Zoning, and/or subdivision regulations; local county or regional comprehensive plans; and existing plans of any other agency relating to the development, use and protection of land and water resources with special attention to: (Reference – Pa Code 25, §71.21.a.3.iv).**

Not Applicable

**IV.B.5. Sewage planning necessary to provide adequate wastewater treatment for 5 and 10-year future planning periods based on projected growth of existing and proposed wastewater collection and treatment facilities (Reference – Pa Code 25, §71.21.a.3.v).**

Not Applicable

---

#### **V. Identify Alternatives to Provide New or Improved Wastewater Disposal Facilities**

---

The sewage needs identified in previous wastewater planning have been met by the Salem Township public sewage collection system and treatment at the BAJSA wastewater treatment plant. The intention of the sewage collection system transfer from Salem Township to BAJSA is that BAJSA will continue to operate and maintain the collection, conveyance and pump stations in cooperation with the Township.

---

#### **VI. Evaluation of Alternatives**

---

**VI.A. Technically feasible alternatives identified in Section V of this Checklist must be evaluated for consistency with respect to the following: (Reference – Pa Code 25, §71.21.a.5.i).**

Not Applicable

**VI.B. Provide for the resolution of any inconsistencies in any of the points identified in Section VI.A of this checklist by submitting a letter from the appropriate agency stating that the agency has received, reviewed and concurred with the resolution of**

identified inconsistencies. (Reference – Pa Code 25, §71.21.a.5.ii).

Not Applicable

**VI.C. Evaluate alternatives identified in Section V of this checklist with respect to applicable water quality standards, effluent limitations or other technical, legislative or legal requirements. (Reference – Pa Code 25, §71.21.a.5.iii).**

BAJSA is an existing Authority with an existing NPDES permit and the WWTP is operating in accordance with that permit. BAJSA will continue to operate and maintain the Salem Township sewer system in accordance with the existing WQM permit, NPDES permit and other Pa Department of Environmental Protection and Salem Township rules and regulations established to protect the public and the environment.

Should any permits, rules or regulations violations occur BAJSA commits to addressing those deficiencies in a timely and thorough manner, to the satisfaction of the Department and the Township.

If it is determined that there are additional public sewer needs within the Township, BAJSA will consider providing service with the Township in accordance with the 2005 Intermunicipal Agreement. Under no circumstances is BAJSA to provide sewer service to any property within the Township without prior Township approval(s), fee payment(s) and permit(s), if applicable.

**VI.D. Provide cost estimates using present worth analysis for construction, financing, ongoing administration, O & M and user fees for alternatives identified in Section V of this checklist. Estimates shall be limited to areas identified in the plan as needed improved sewage facilities within 5 years from the date of the plan submission. (Reference – Pa Code 25, §71.21.a.5.iv).**

Salem Township may occasionally incur legal or engineering consulting fees for any technical or legal matters that may arise, but at this time none are anticipated. The collection system O & M fees, billing rates, administrative costs, repair and replacement costs, etc will be the responsibility of BAJSA and will be guaranteed by the full faith, credit, and taxing power of Salem Township.

**VI.E. Provide an analysis of the funding methods available to finance the proposed alternatives evaluated in Section V of this checklist. (Reference – Pa Code 25, §71.21.a.5.v).**

Not Applicable

**VI.F. Analyze the need for immediate or phased implementation of each alternative proposed in Section V of the checklist including: (Reference – Pa Code 25, §71.21.a.5.vi).**

- 1. A description of any activities necessary to abate critical public health hazards pending completion of sewage facilities or implementation of SMPs. (Reference – Pa Code 25, §71.21.a.5.vi(A)).**

All public sewer construction, including all extensions, and deficiency remediation efforts are complete to the satisfaction of the Pa DEP in accordance with the approved WQM Permit.

2. **A description of the advantages, if any, in phasing construction of the facilities or implementation of SMP justifying time schedules for each phase. (Reference – Pa Code 25, §71.21.a.5.vi(B)).**

The transfer of the public sanitary sewer system in Salem Township to BAJSA will be completed in its entirety and is not proposed to be phased in any way.

**VI.G. Evaluate administrative organizations and legal authority necessary for plan implementation: (Reference – Pa Code 25, §71.21.a.5.vi(D)).**

Upon the transfer of ownership of the sanitary sewer system, BAJSA will own and maintain the existing sanitary sewer system as well as future extensions. Expansion of public sewers and/or public sewer service in the Township will require Township planning to be completed in accordance with Act 537 and BAJSA approval to proceed. The Township and BAJSA will prepare and enter into a new Intermunicipal agreement to address the documents that the Township will turn over to the Authority as part of the system transfer, address the Authority's right(s) to enter the facilities, transfer of other permits such as PennDOT Highway Occupancy Permits and other legal responsibilities.

As the system owner, BAJSA will be responsible for the operation and maintenance of the sewage collection system within the Township and compliance of the system with all PA DEP and Township rules, regulations and permits.

---

**VII. Institutional Evaluation**

---

**VII.A. Provide an analysis of all existing wastewater treatment authorities, their past actions and present performance including: (Reference – Pa Code 25, §71.61.d.2).**

Not Applicable

**VII.B. Provide an analysis and description of the various institutional alternatives necessary to implement the proposed technical alternatives including: (Reference – Pa Code 25, §71.61.d.2).**

1. **Need for new municipal departments or municipal authorities. (Reference – Pa Code 25, §71.61.d.2).**

BAJSA is an existing municipal authority, no additional municipal departments or municipal authorities will be required for the system transfer.

2. **Functions of existing and proposed organizations (sewer authorities, onlot maintenance agencies, etc.). (Reference – Pa Code 25, §71.61.d.2).**

Upon the transfer of ownership of the sanitary sewer system, BAJSA will own and maintain the existing sanitary sewer system as well as future extensions. Expansion of public sewers and/or public sewer service in the Township will require Township planning to be completed in accordance with Act 537, and BAJSA approval to proceed. As the system Owner, BAJSA will be responsible for the operation and maintenance of the sewage collection system within the Township and compliance of the system with all PA DEP and Township rules, regulations and permits. BAJSA will own and maintain the equipment necessary to keep the Salem Township sewer system in compliance with all permits, rules and regulations, including the pump stations. The system O&M includes, but is not limited to, the repair and replacement of equipment and appurtenances,

reporting/recording devices, meter calibrations, inspections, emergency response, flow monitoring, complaint investigations, etc.

**3. Cost of administration, implementability and the capability of the authority/agency to react to future needs.**

The Township may incur legal and engineering fees in the future to evaluate any potential sanitary sewer service area expansion. Any potential service area expansion would likely be developer driven and costs will vary widely depending on the impact of the potential project. The Township may also receive on-lot system failure reports or complaints that may need to be investigated.

**VII.C. Describe all necessary administrative and legal activities to be completed and adopted to ensure the implementation of the recommended institutional alternative including:**

**1. Incorporation of authorities or agencies (Reference – Pa Code 25, §71.61.d.2).**

As an existing operating Authority, BAJSA is capable of owning and operating the Salem Township Sanitary sewer system.

**2. Development of all required ordinances, regulations, standards, agreements and inter-municipal agreements (Reference – Pa Code 25, §71.61.d.2).**

The 2005 joinder agreement with BAJSA is in effect. The Township and BAJSA will prepare and enter into a new Intermunicipal agreement to address the documents that the Township will turn over to the Authority as part of the system transfer, address the Authority's right(s) to enter the facilities, transfer of other permits such as PennDOT Highway Occupancy Permits and other legal responsibilities.

**3. Descriptions of activities to provide rights-of-way, easements and land transfers. (Reference – Pa Code 25, §71.61.d.2).**

Salem Township will transfer existing and coordinate any future rights-of-way, easements and land transfers for the sanitary sewer system in the Township to BAJSA following the review and approval of the ACT 537 Plan by the PA DEP

**4. Adoption of other municipal sewage facilitates plans (Reference – Pa Code 25, §71.61.d.2).**

No other municipal sewage facilities plans are affected by the Salem Township sewage facility plan.

**5. Any other legal documents (Reference – Pa Code 25, §71.61.d.2).**

No other legal documents are required at this time.

**6. Dates or timeframes for items 1-5 above on the project's implementation schedule (Reference – Pa Code 25, §71.61.d.2).**

The PennVEST loan for the construction of the Sanitary sewer system has been closed out. The transfer of the loan obligation and the Water Quality Management Permit will occur directly following the review and approval of the Salem Township Act 537 Plan Update by the Pa DEP in the spring of 2020. All PennVEST assumption documents will be transferred to BAJSA following the PA DEP Approval.

**VII.D. Identify the proposed institutional alternative for implementing the chosen technical wastewater disposal alternative. Provide justification for choosing the specific institutional alternative considering administrative issues, organizational needs and enabling legal authority. (Reference – Pa Code 25, §71.61.d.2).**

Salem Township and BAJSA determined that it would be to their mutual benefit to have Salem Township join the Authority, in accordance with the 1994 Pre-Incorporation Agreement agreed upon by the other member municipalities and created the Authority. The Authority has the administrative and field crew staff to operate and maintain the physical system as well as manage the billings, payments and other organizational components to manage the sanitary sewer system in a cost-effective manner.

---

**VIII. Implementation Schedule & Justification for Selected Tech. & Instit. Alternatives**

---

**VIII.A. Identify the technical wastewater disposal alternative which best meets the wastewater treatment needs. Justify the choice by providing documentation which shows that is the best alternative based on:**

**1. Existing wastewater disposal needs (Reference – Pa Code 25, §71.21.a.6).**

The Salem Township Sanitary Sewer System has been discharging into the BAJSA sanitary sewer collection system and the wastewater has been treated at the BAJSA treatment plant since the Salem Township system was constructed. This arrangement is in accordance with the Township's comprehensive plan and the 2005 joinder agreement.

Prior to the transfer of the system, the Township and BAJSA will enter into an agreement to address the transfer of all legal documents, including but not limited to permits and Right-Of-ways/Easements and copies of plans, specifications and record drawings.

**2. Future wastewater disposal needs (5 and 10 year growth areas) (Reference – Pa Code 25, §71.21.a.6).**

The Salem Township Sanitary Sewer System currently extends throughout the proposed public sewer service area. Any future growth would come from developments for which the Township has not received any plans or notices to date and public sewer is not expected to be needed beyond the current service area.

**3. O & M considerations (Reference – Pa Code 25, §71.21.a.6).**

BAJSA has been operating and maintaining the public sewer system for the Township since the system came online. There should be minimal changes needed within the BAJSA organization to continue to operate and maintain the system.

**4. Cost-effectiveness (Reference – Pa Code 25, §71.21.a.6).**

Not applicable

**5. Available management and administrative systems (Reference – Pa Code 25, §71.21.a.6).**

BAJSA has the administrative staff to manage the billings, payments and other

organizational components to the sanitary sewer system in a cost-effective manner.

**6. Available financing methods (Reference – Pa Code 25, §71.21.a.6).**

Not applicable

**7. Environmental soundness and compliance with natural resource planning and preservation programs (Reference – Pa Code 25, §71.21.a.6).**

Since the system is already in operation and all noted deficiencies and omissions have been corrected, there are no anticipated environmental impact concerns with the system transfer.

**VIII.B. Designate and describe the capital financing plan chosen to implement the selected alternative(s). Designate and describe the chosen back-up financing plan (Reference – 25 Pa. Code §71.21.a.6):**

The selected alternative does not require a financing plan to implement. The construction of the Salem Township public sewer system was financed through a PennVEST loan which is currently being repaid by BAJSA. The loan will be formally transferred to BAJSA via assumption documents prior to the official system transfer.

**VIII.C. Designate and describe the implementation schedule for the recommended alternative, including justification for any proposed phasing of construction or implementation of a SMP. Designate and describe the chosen back-up financing plan (Reference – 25 Pa. Code §71.31.(d)):**

The intermunicipal agreement between Salem Township and BAJSA will be prepared and executed by the end of 2019. The documents requested from Salem Township will be transferred to BAJSA by March 2020.

- The agreement will address the inflow and infiltration concerns that BAJSA has. Any flow evaluation, which may or may not include flow monitoring and/or remediation techniques will be established and agreed upon by both parties.

Upon approval of the ACT 537 Plan and satisfaction of the agreement terms, the Water Quality Management Permit will be submitted to the Pa DEP and once approved, the ownership of the public sanitary sewer system will be transferred from Salem Township to BAJSA.

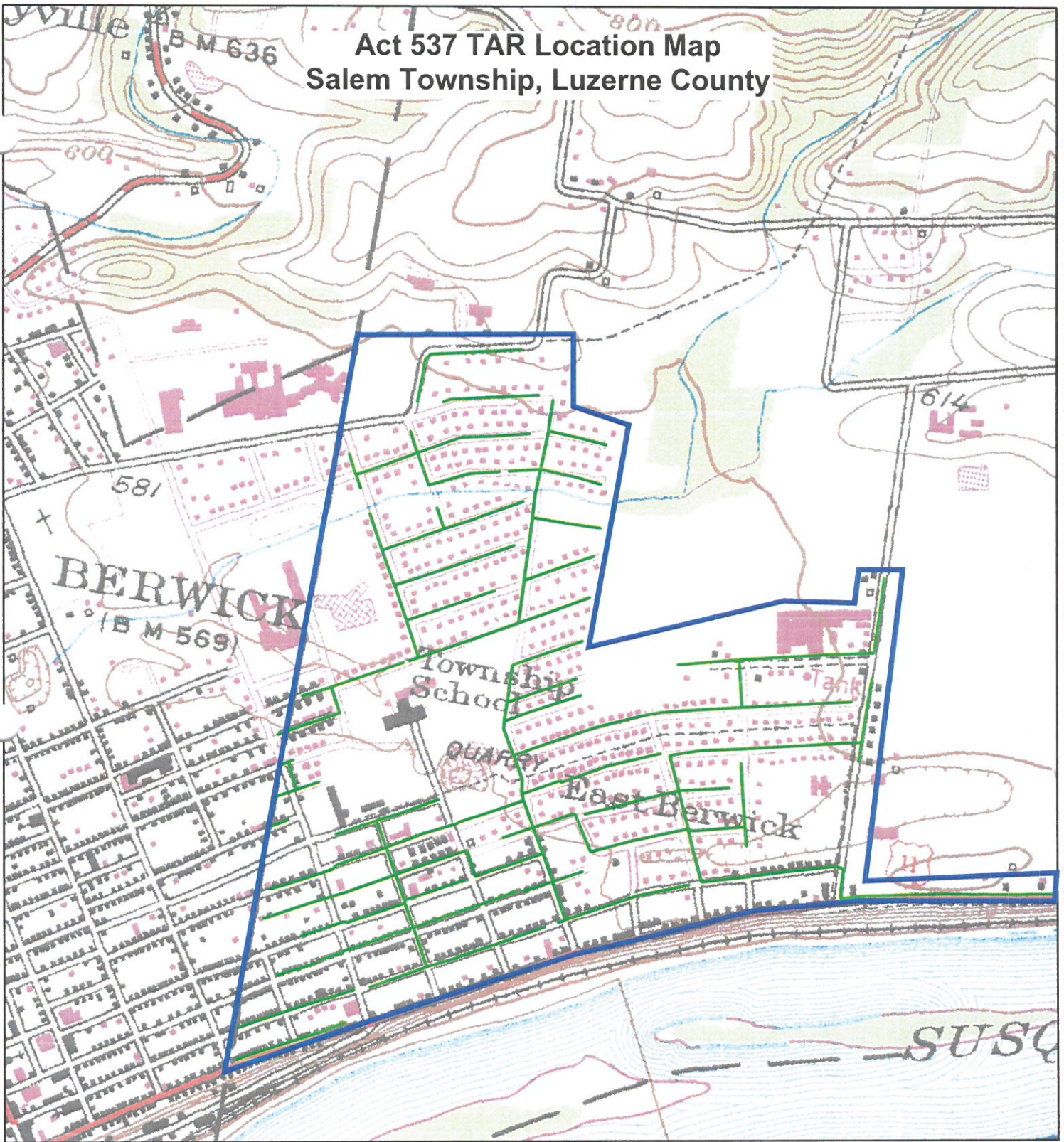
A financing plan is not proposed as part of this Plan update.





***Attachments***

# Act 537 TAR Location Map Salem Township, Luzerne County



MAP 1  
IV.B USGS Map with Physical Characteristics

- Existing Sanitary Gravity Main
- Existing Sanitary Sewer Force Main
- Project Area

500 250 0 500 1,000 1,500  

 Feet

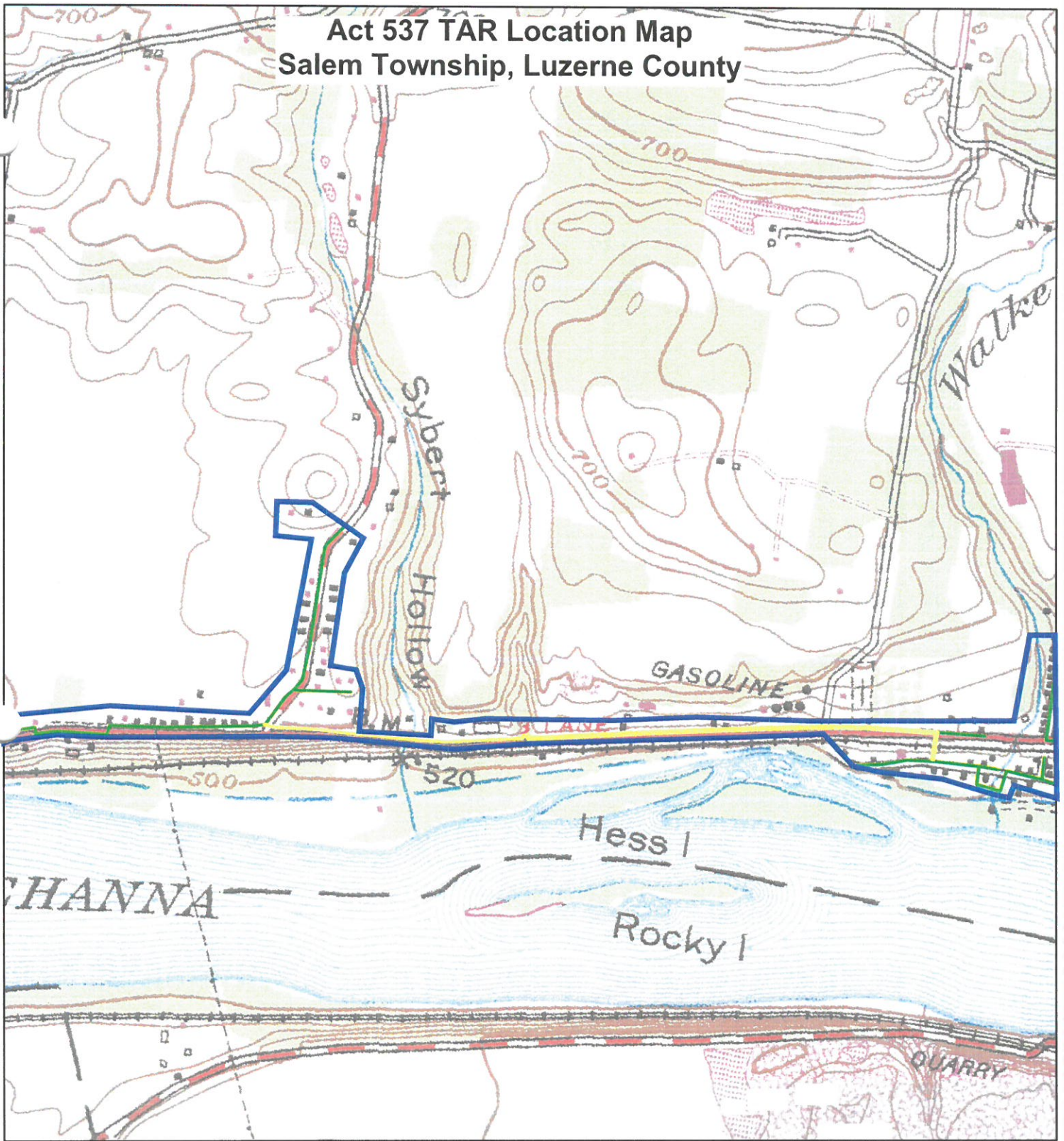
Source: USGS Topographic Map,  
Berwick Quadrangle



**BARRY ISETT & ASSOCIATES, INC.**  
 Multidiscipline Engineers & Consultants

Trexlerstown, PA 610.398.0904 Phoenixville, PA 610.935.2175  
 Hazleton, PA 570.455.2999 Phillipsburg, NJ 908.454.9500  
[www.barryisett.com](http://www.barryisett.com)

# Act 537 TAR Location Map Salem Township, Luzerne County



- Existing Sanitary Gravity Main
- Existing Sanitary Sewer Force Main
- Project Area

MAP 2  
IV.B USGS Map with Physical Characteristics



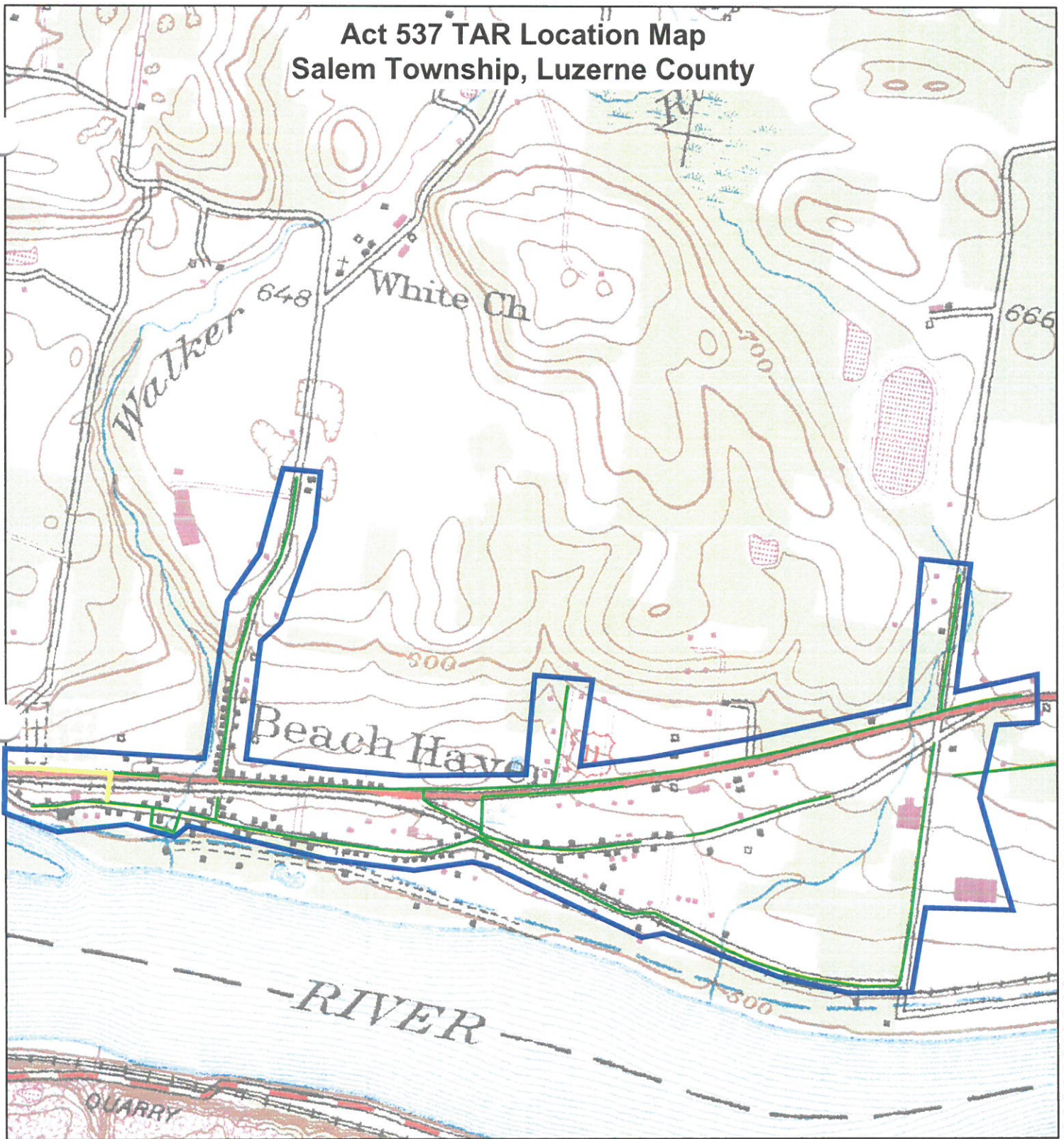
Source: USGS Topographic Map,  
Berwick Quadrangle



**BARRY ISETT & ASSOCIATES, INC.**  
Multidiscipline Engineers & Consultants

Trexlerstown, PA 610.398.0904 Phoenixville, PA 610.935.2175  
Hazleton, PA 570.455.2999 Phillipsburg, NJ 908.454.9500  
[www.barryisett.com](http://www.barryisett.com)

# Act 537 TAR Location Map Salem Township, Luzerne County



MAP 3  
IV.B USGS Map with Physical Characteristics

- Existing Sanitary Gravity Main
- Existing Sanitary Sewer Force Main
- Project Area



Source: USGS Topographic Map,  
Berwick Quadrangle



**BARRY ISETT & ASSOCIATES, INC.**  
Multidiscipline Engineers & Consultants

Trexlerstown, PA 610.398.0904 Phoenixville, PA 610.935.2175  
Hazleton, PA 570.455.2999 Phillipsburg, NJ 908.454.9500  
[www.barryisett.com](http://www.barryisett.com)

**Legend**

- Sanitary Manhole
- Priority Manhole
- Gravity Main
- ⊙ WetWell
- Sanitary Forcemain



— ACT 537 Plan Service Area  
Map 1a

**CONTRACT # 1**



SEE MANHOLE INDEX SHEET 1

- Legend**
- LPS-MH
  - Prop. SMH
  - Prop. G.V. Main
  - Sanitary Manhole
  - Priority Manhole
  - Gravity Main
  - Grinder Pump
  - Low Pressure
  - Sanitary Foremain

— ACT 537 Plan Service Area  
Map 2

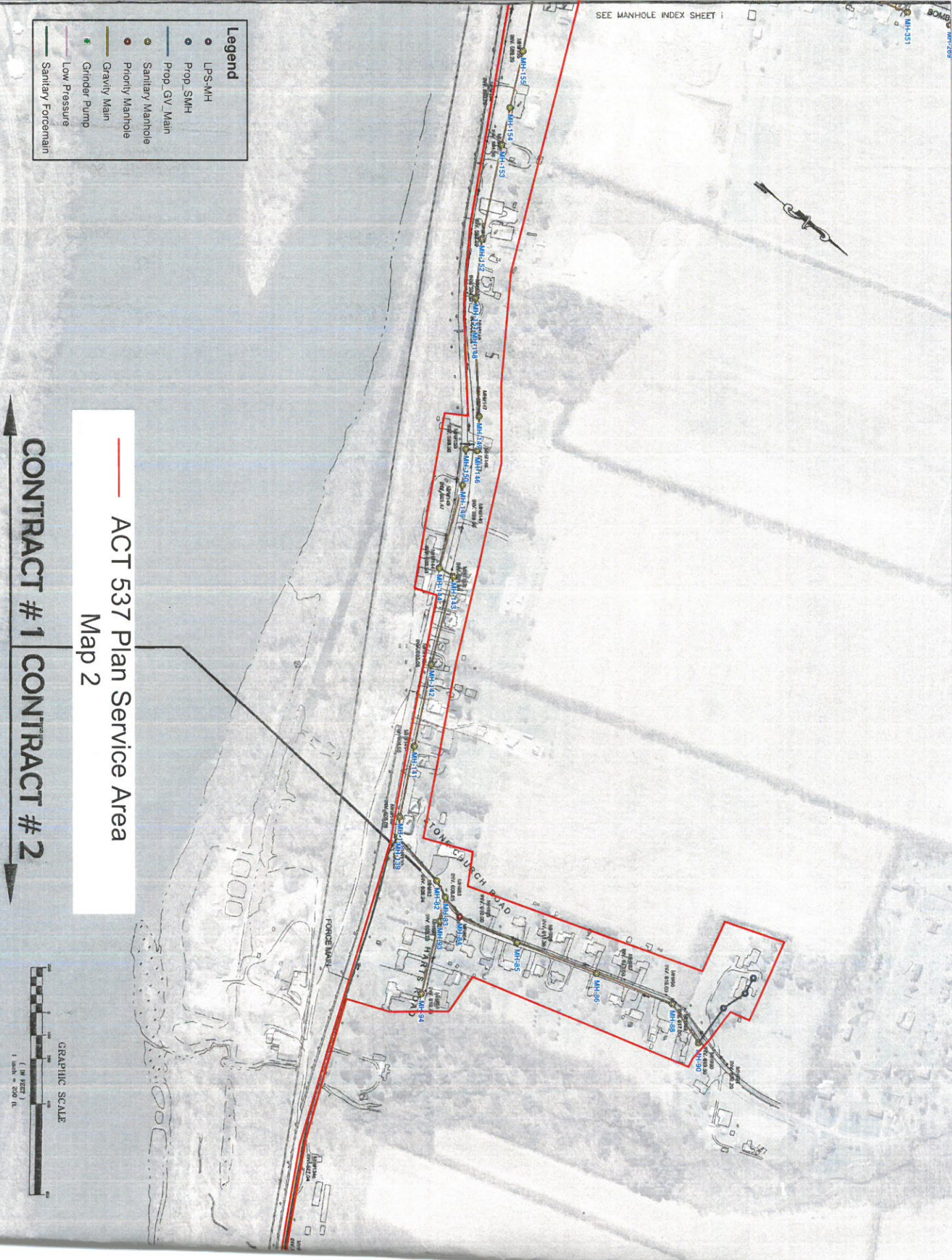
← CONTRACT # 1 CONTRACT # 2 →



**MICHAEL J. PASONICK, JR., INC.**  
ENGINEERING CONSULTANTS ARCHITECTS PLANNERS SURVEYORS

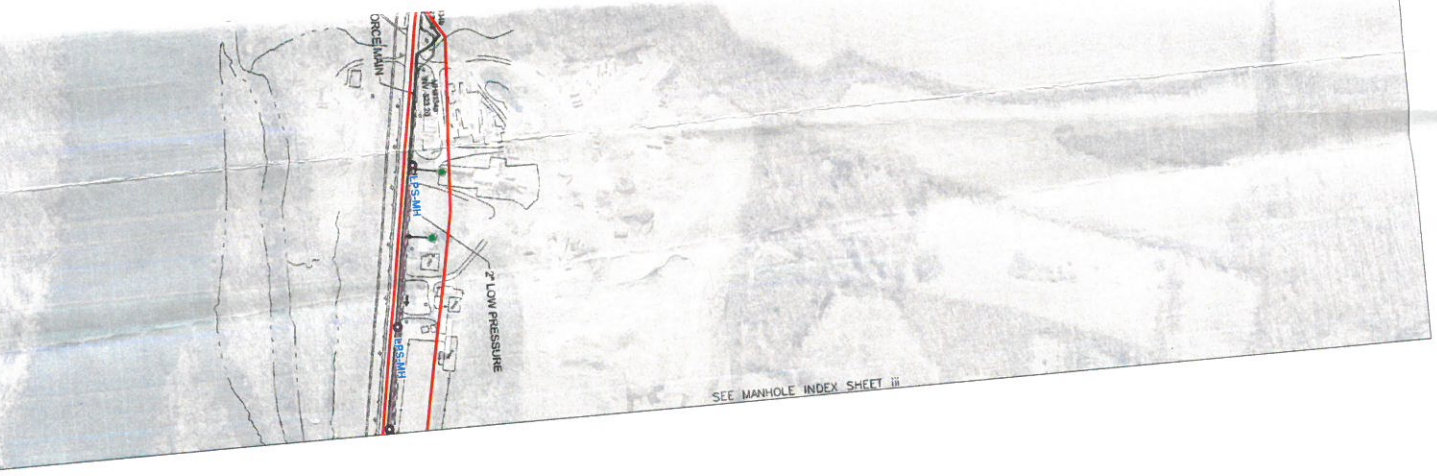
SALEM TOWNSHIP  
SANITARY SEWER PROJECT  
SALEM TOWNSHIP, LUZERNE COUNTY, PENNA.

SANITARY MANHOLE



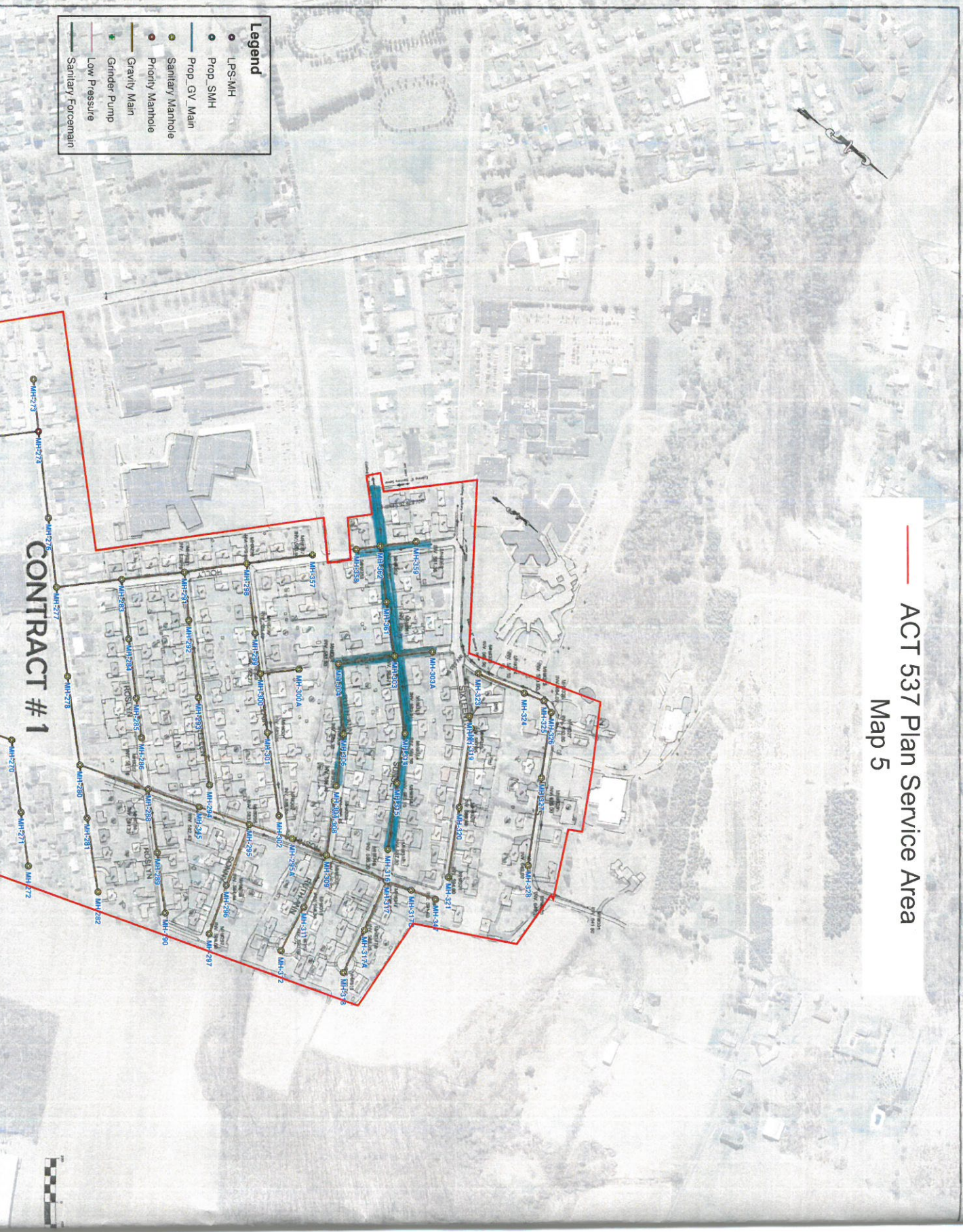
E INDEX

DATE	BY	SCALE	DATE	BY
10/1/00	...	1"=100'	...	...



ACT 537 Plan Service Area  
Map 5

- Legend**
- LPS-MH
  - Prop\_SMH
  - Prop\_GV\_Main
  - Sanitary Manhole
  - Priority Manhole
  - Gravity Main
  - Grinder Pump
  - Low Pressure
  - Sanitary Forcemain



CONTRACT # 1

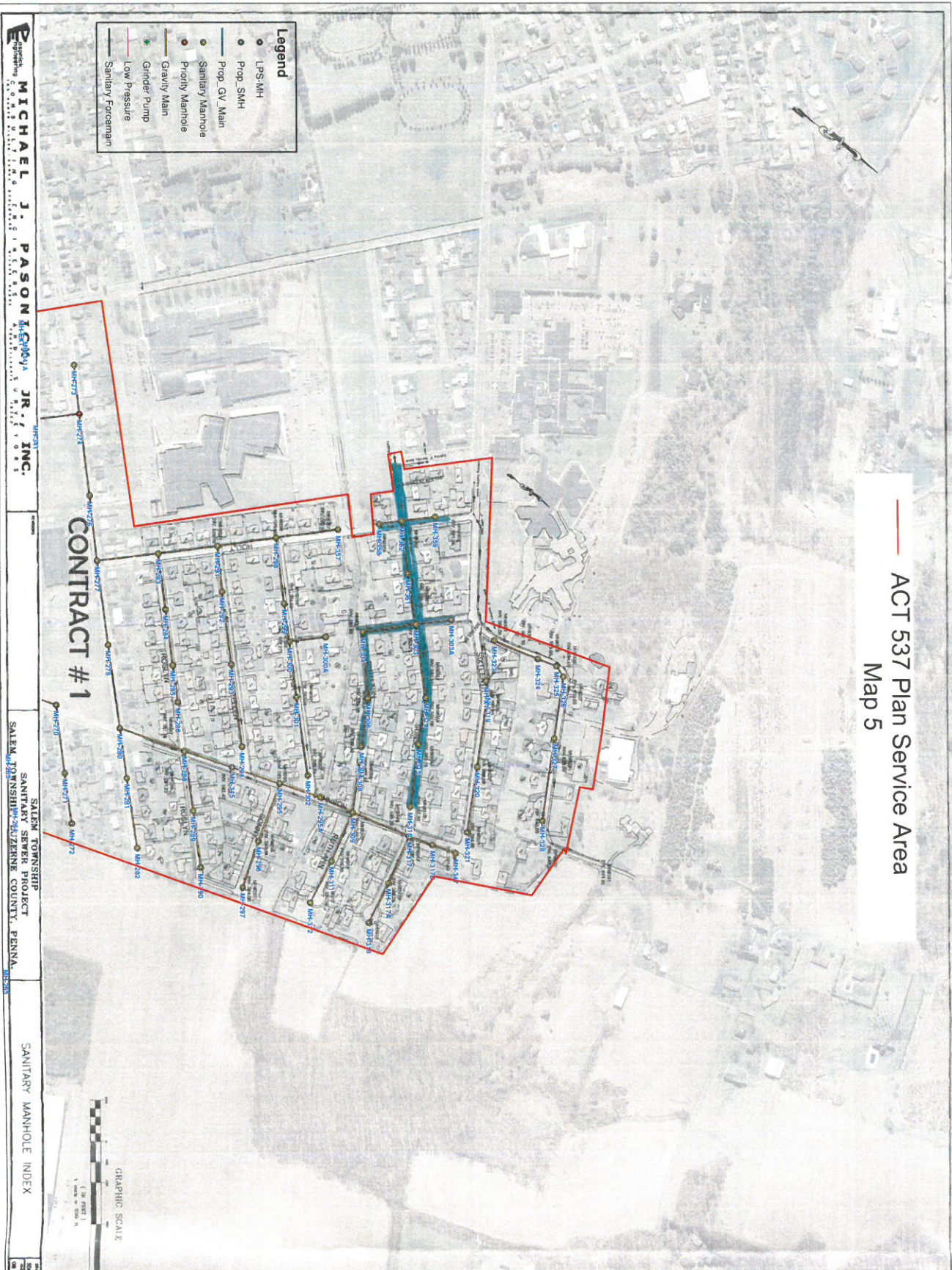
MICHAEL J. PASONI JR. INC. SALEM TOWNSHIP SANITARY SEWER PROJECT, PENNA. SALEM TOWNSHIP SANITARY MANHOLE





DATE: 11/15/2011  
TIME: 10:30 AM  
PROJECT: MH-353  
iV

ACT 537 Plan Service Area  
Map 5



**MICHAEL J. PASONI JR., INC.**  
 ENGINEERS, ARCHITECTS, PLANNERS, ENVIRONMENTAL SCIENTISTS, AND SURVEYORS  
 1000 W. MARKET STREET, SUITE 200, SALEM, PA 15146  
 TEL: 717.835.1000 FAX: 717.835.1001  
 WWW.MJPASONI.COM

**SALEM TOWNSHIP**  
 SANITARY SEWER PROJECT  
 SALEM TOWNSHIP, SALEM COUNTY, PENNA.

**SANITARY MANHOLE INDEX**

CONTRACT # 1



