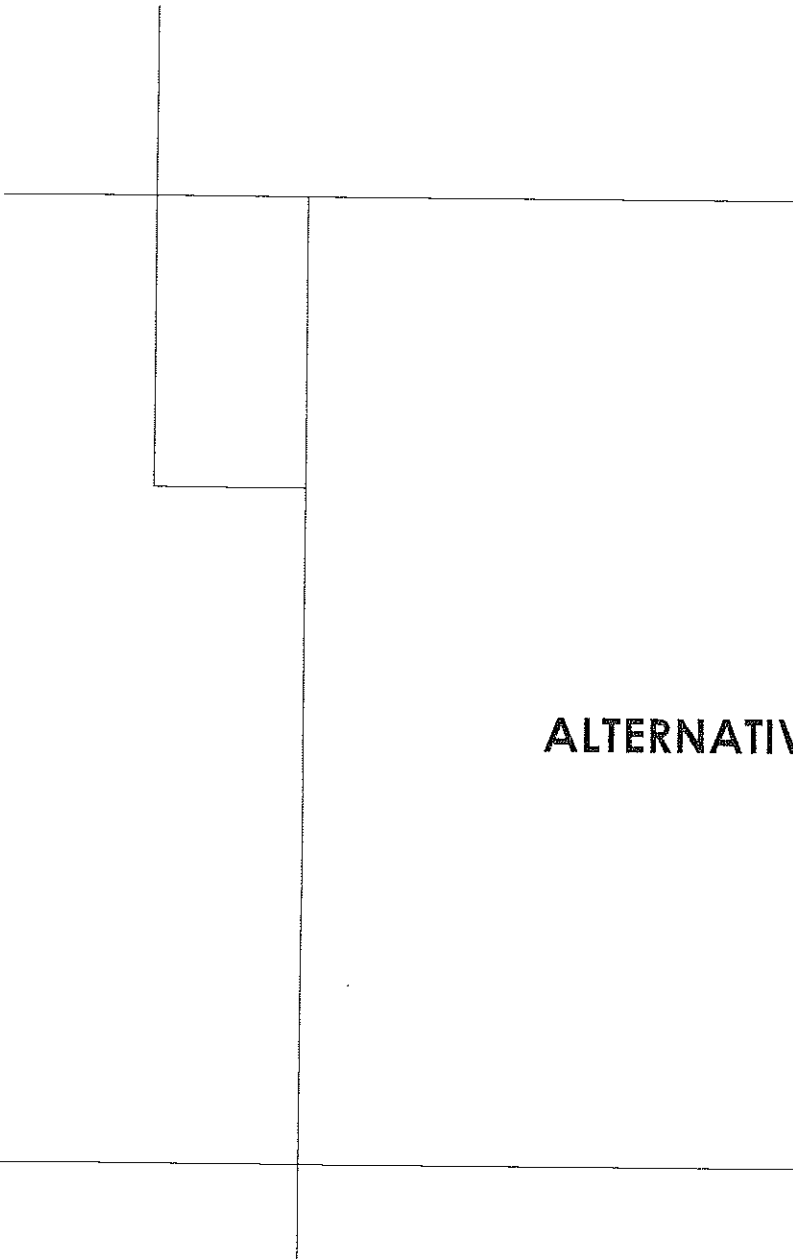
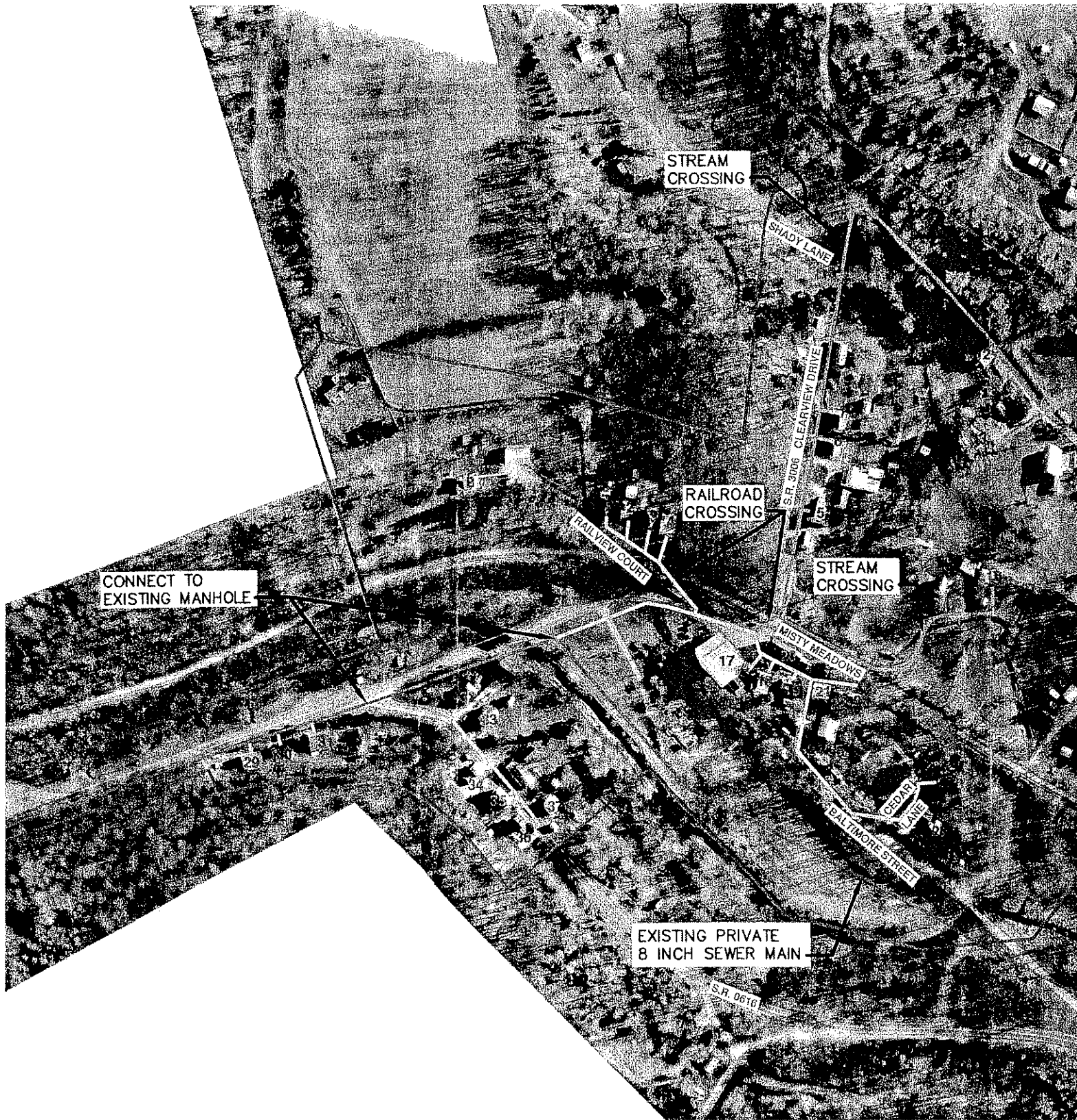


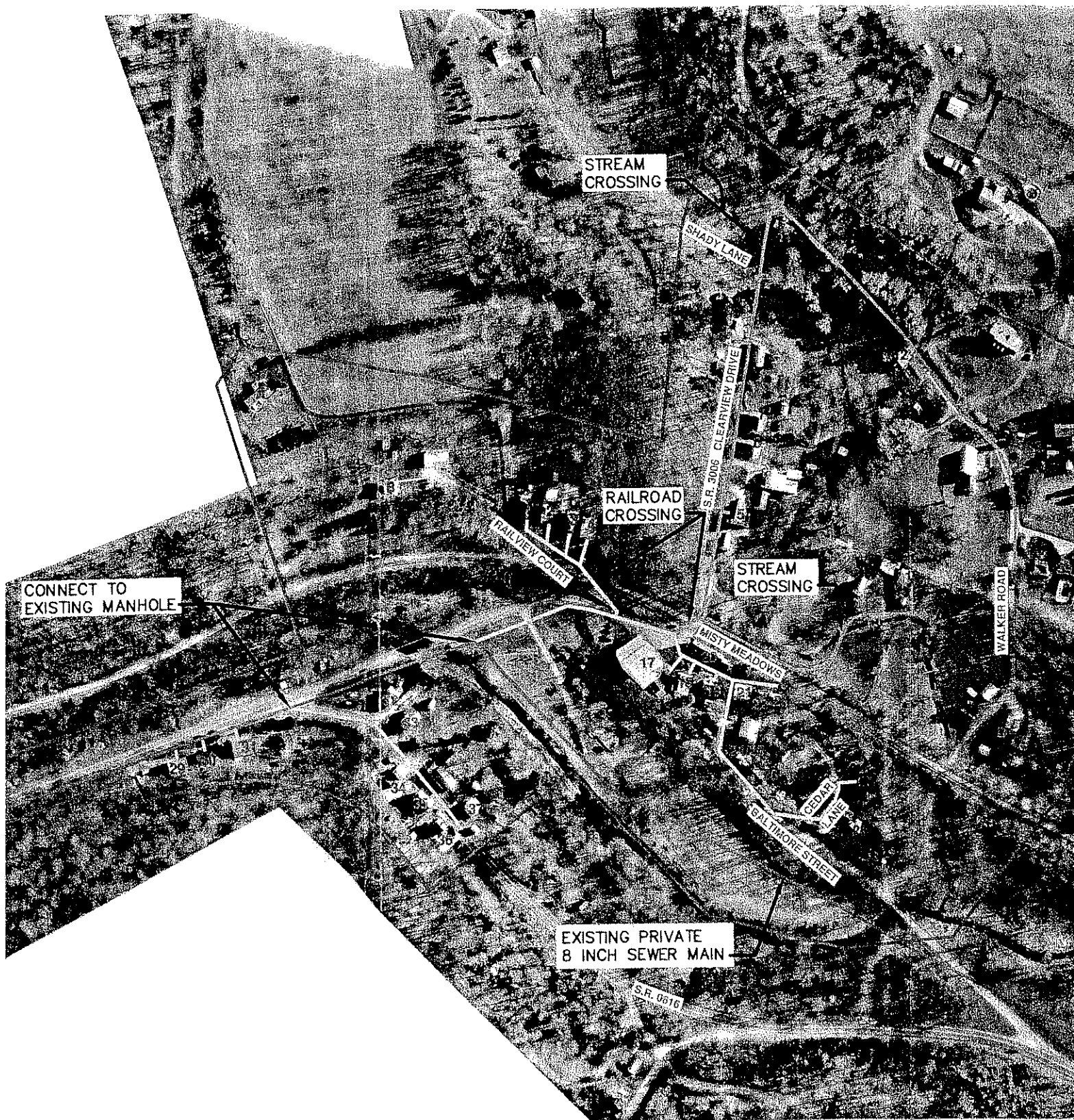


ALTERNATIVE EXHIBITS



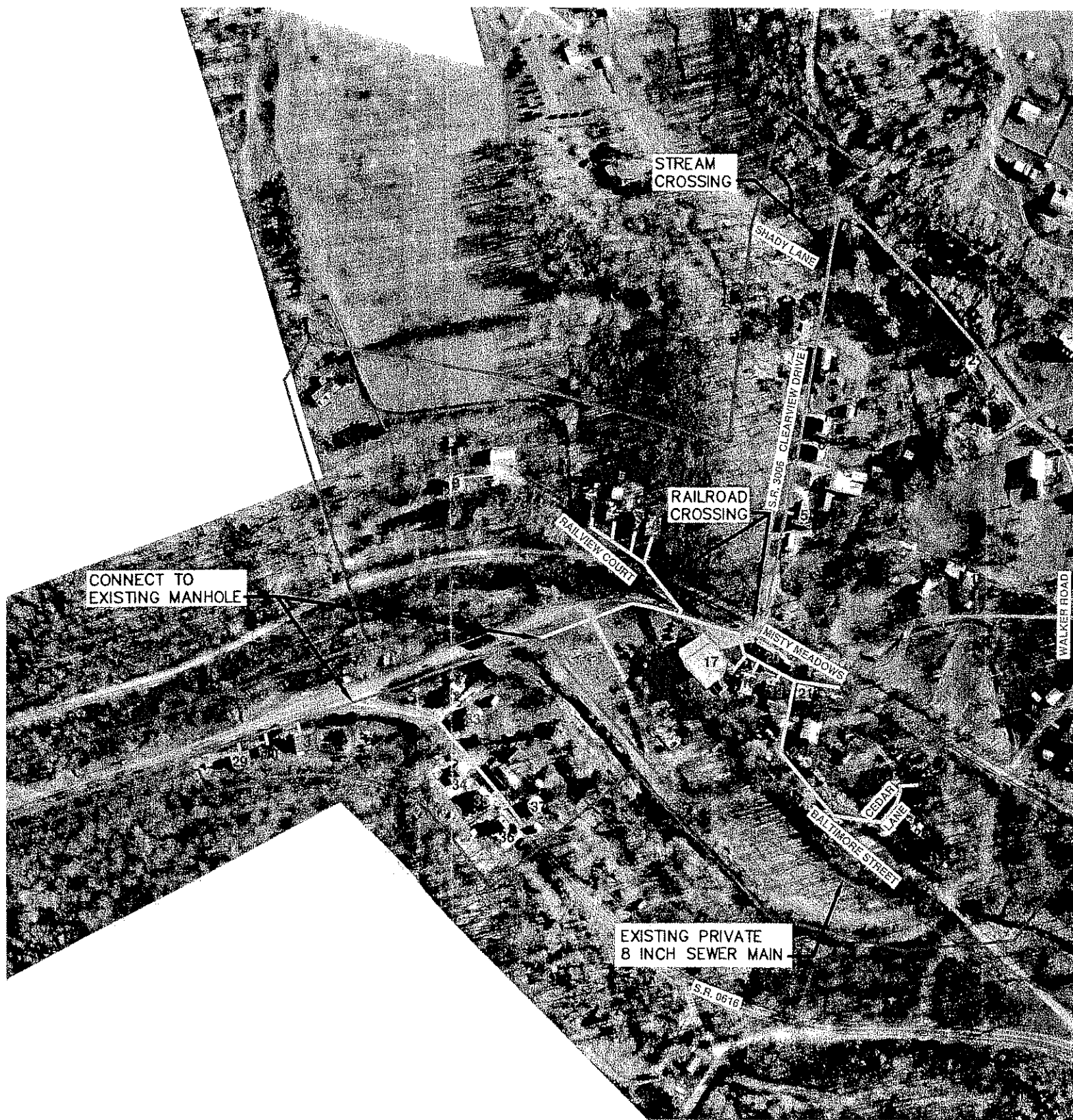
SHREWSBURY TOWNSHIP
11505 SUSQUEHANNA TRAIL SOUTH
GLEN ROCK, PA 17327

ALTERNATIVE 10A
FOR
SEITZLAND AREA SANITARY SEWER



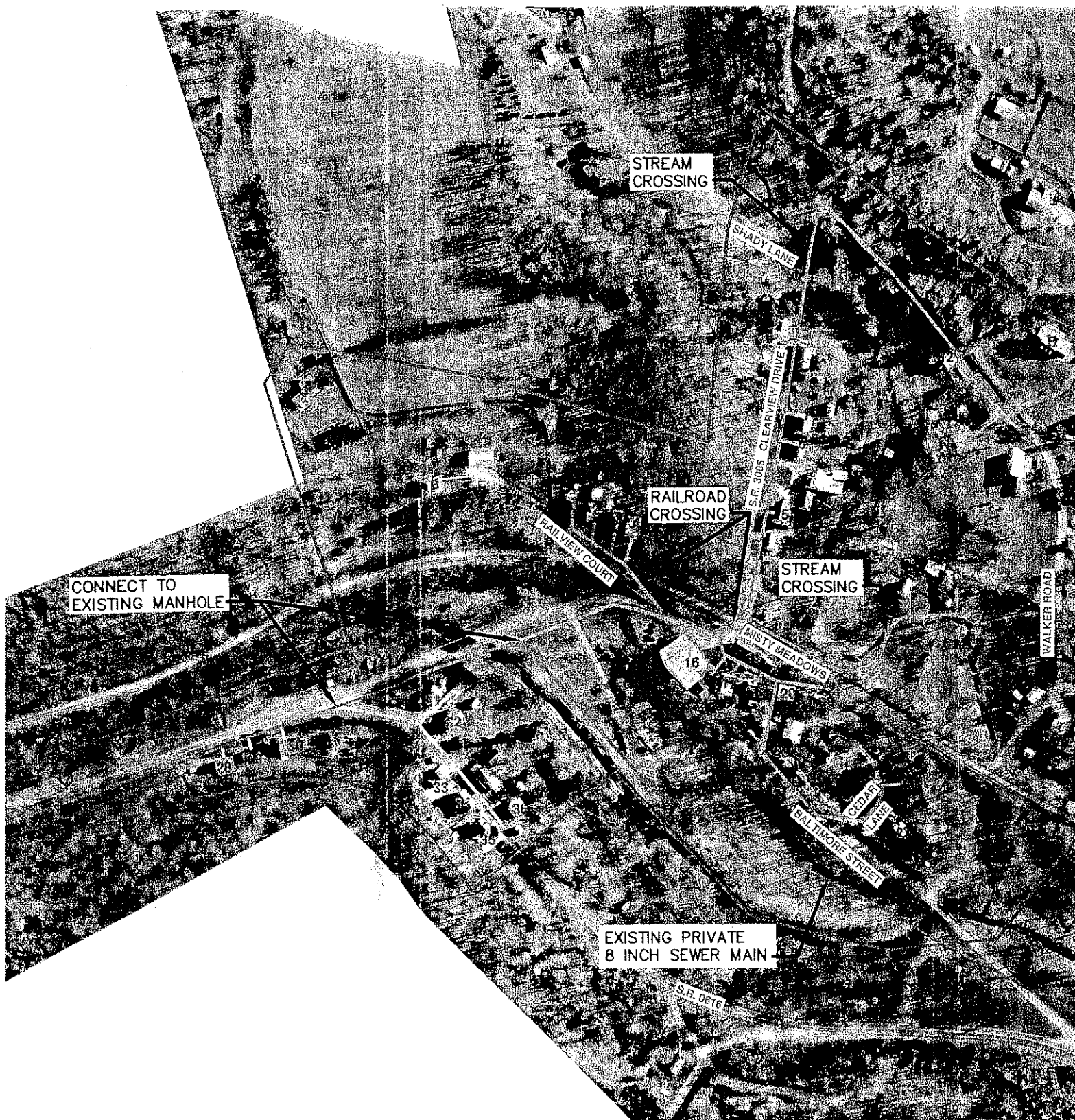
SHREWSBURY TOWNSHIP
11505 SUSQUEHANNA TRAIL SOUTH
GLEN ROCK, PA 17327

ALTERNATIVE 10B
FOR
SEITZLAND AREA SANITARY SEWER



SHREWSBURY TOWNSHIP
11505 SUSQUEHANNA TRAIL SOUTH
GLEN ROCK, PA 17327

ALTERNATIVE 10C
FOR
SEITZLAND AREA SANITARY SEWER



SHREWSBURY TOWNSHIP
 11505 SUSQUEHANNA TRAIL SOUTH
 GLEN ROCK, PA 17327

REVISED ALTERNATIVE 11
 FOR
 SEITZLAND AREA SANITARY SEWER

**COST ESTIMATE FOR ALTERNATIVE 10A
FOR
SHREWSBURY TOWNSHIP
SEITZLAND SANITARY SEWER EXTENSION PROJECT
Prepared By: Matthew D. Cichy, P.E.
June 10, 2008**

BASE (Clearview Drive, Railview Court, Walker Road, Baltimore Street, Cedar Lane)					
ITEM NO.	DESCRIPTION	EST.	UNIT	UNIT COST	EXTENSION
GENERAL					
1	MOBILIZATION	1	L.S.	\$ 48,200.00	\$ 48,200.00
2	TRAFFIC MAINTENANCE AND PROTECTION	1	L.S.	\$ 16,500.00	\$ 16,500.00
SANITARY SEWER PIPE AND APPURTENANCES					
3	8" PVC SANITARY SEWER PIPE 8'-10'	1,630	L.F.	\$ 122.00	\$ 198,860.00
4	CLAY DIKE	13	EA.	\$ 150.00	\$ 1,950.00
5	CLEANOUTS	15	EA.	\$ 200.00	\$ 3,000.00
6	6" PVC LATERAL PIPE	300	L.F.	\$ 70.00	\$ 21,000.00
7	8" x 6" WYE	15	EA.	\$ 85.00	\$ 1,275.00
MANHOLES					
8	4 FOOT DIAMETER MANHOLES 0-10' DEEP	14	EA.	\$ 4,500.00	\$ 63,000.00
9	CONNECTION TO EXISTING MANHOLE	1	EA.	\$ 1,500.00	\$ 1,500.00
SURFACING AND RESTORATION					
VEGETATION					
10	Lawns	960	L.F.	\$ 6.00	\$ 5,760.00
MUNICIPAL PAVED					
11	Paved Street	1,660	L.F.	\$ 35.00	\$ 58,100.00
PENNDOT PAVED					
12	PAVED ROAD - S.R. 3006	1,180	L.F.	\$ 55.00	\$ 64,900.00
STREAM CROSSINGS					
13	LPS MAIN	40	L.F.	\$ 175.00	\$ 7,000.00
RAILROAD CROSSINGS					
14	8" PVC PIPE	30	L.F.	\$ 375.00	\$ 11,250.00
15	LPS MAIN	30	L.F.	\$ 175.00	\$ 5,250.00
LOW PRESSURE SEWER					
16	LPS MAIN - STATE ROAD	1,000	L.F.	\$ 41.00	\$ 41,000.00
17	LPS MAIN - TOWNSHIP ROAD	670	L.F.	\$ 37.00	\$ 24,790.00
18	LPS MAIN - OUTSIDE TOWNSHIP ROAD	500	L.F.	\$ 32.00	\$ 16,000.00
19	GRINDER PUMP - SIMPLEX	13	L.F.	\$ 7,500.00	\$ 97,500.00
20	ONLINE FLUSHING STATION	2	EA.	\$ 1,750.00	\$ 3,500.00
21	END LINE FLUSHING STATION	2	EA.	\$ 1,750.00	\$ 3,500.00
22	LPS LATERAL	910	L.F.	\$ 25.00	\$ 22,750.00
23	AIR/VACUUM RELEASE VALVES	2	EA.	\$ 4,000.00	\$ 8,000.00

Assumptions:

6" PVC Lateral Pipe 20-feet per Home

Low Pressure Sewer Lateral 70-feet per Home

8-inch Sanitary Sewer Pipe Reflects Proposed Depth

Manholes Reflect Average Depths

Multiresidential Homes Have 1 Building Sewer

PennDOT Road Restoration Assumed Trench Restoration Only. No Mill and Overlay.

Quantities Shown Above are Based on Preliminary Sanitary Sewer Alignment and Aerial Photography.

BASE ESTIMATED CONSTRUCTION COSTS	\$ 724,585.00
CONSTRUCTION CONTINGENCY @ 15%	\$ 108,687.75
ENGINEERING, ADMIN, & LEGAL FEES @ 25%	\$ 181,146.25
TOTAL ESTIMATED PROJECT COSTS	\$ 1,014,419.00
SAY	\$ 1,014,000.00
ESTIMATED NUMBER OF EDUs TO BE SERVED	35
ESTIMATED COST PER EDU	\$ 28,983.40

ADDER #1 (PRIVATE SEWER REHAB - CIPP LINING)					
PRIVATE SEWER REHABILITATION COST - CIPP LINING					
ITEM NO.	DESCRIPTION	EST. QUANTITY	UNIT	UNIT COST	EXTENSION
24	CLEANING OF 8" SANITARY SEWER MAINS	2,160	L.F.	\$ 1.35	\$ 2,916.00
25	INTERNAL TELEVISIONING OF 8" SANITARY SEWER MAINS	2,160	L.F.	\$ 1.45	\$ 3,132.00
26	8" CIPP LINER	2,160	L.F.	\$ 35.00	\$ 75,600.00

ADDER #1 SUBTOTAL \$ 81,648.00
 BASE ESTIMATED CONSTRUCTION COST \$ 724,585.00
 TOTAL \$ 806,233.00
 CONSTRUCTION CONTINGENCY @ 15% \$ 120,934.95
 ENGINEERING, ADMIN, & LEGAL FEES @ 25% \$ 201,558.25
 TOTAL ESTIMATED PROJECT COSTS \$ 1,128,726.20
 SAY \$ 1,129,000.00
 ESTIMATED NUMBER OF EDUs TO BE SERVED 35
 ESTIMATED COST PER EDU \$ 32,257.14

ADDER #2 (STATE ROAD 0616)					
ITEM NO.	DESCRIPTION	EST.	UNIT	UNIT COST	EXTENSION
GENERAL					
27	MOBILIZATION	1	L.S.	\$ 8,600.00	\$ 8,600.00
28	TRAFFIC MAINTENANCE AND PROTECTION	1	L.S.	\$ 3,000.00	\$ 3,000.00
SANITARY SEWER PIPE AND APPURTENANCES					
29	8" PVC SANITARY SEWER PIPE 8'-10'	520	L.F.	\$ 122.00	\$ 63,440.00
30	CLAY DIKE	2	EA.	\$ 150.00	\$ 300.00
31	CLEANOUTS	9	EA.	\$ 200.00	\$ 1,800.00
32	6" PVC LATERAL PIPE	180	L.F.	\$ 70.00	\$ 12,600.00
33	8" x 6" WYE	9	EA.	\$ 85.00	\$ 765.00
MANHOLES					
34	4 FOOT DIAMETER MANHOLES 0-10' DEEP	2	EA.	\$ 4,500.00	\$ 9,000.00
35	CONNECTION TO EXISTING MANHOLE	1	EA.	\$ 1,500.00	\$ 1,500.00
SURFACING AND RESTORATION					
PENNDOT PAVED					
36	PAVED ROAD - S.R. 0616	520	L.F.	\$ 55.00	\$ 28,600.00

ADDER #2 SUBTOTAL \$ 129,605.00
 BASE ESTIMATED CONSTRUCTION COST \$ 724,585.00
 ADDER #1 SUBTOTAL \$ 81,648.00
 TOTAL \$ 935,838.00
 CONSTRUCTION CONTINGENCY @ 15% \$ 140,375.70
 ENGINEERING, ADMIN, & LEGAL FEES @ 25% \$ 233,959.50
 TOTAL ESTIMATED PROJECT COSTS \$ 1,310,173.20
 SAY \$ 1,310,000.00
 ESTIMATED NUMBER OF EDUs TO BE SERVED 44
 ESTIMATEO COST PER EDU \$ 29,772.73

**COST ESTIMATE FOR ALTERNATIVE 10B
FOR
SHREWSBURY TOWNSHIP
SEITZLAND SANITARY SEWER EXTENSION PROJECT
Prepared By: Matthew D. Cichy, P.E.
June 10, 2008**

BASE (Clearview Drive, Railview Court, Walker Road, Baltimore Street, Cedar Lane)					
ITEM NO.	DESCRIPTION	EST.	UNIT	UNIT COST	EXTENSION
GENERAL					
1	MOBILIZATION	1	L.S.	\$ 48,200.00	\$ 48,200.00
2	TRAFFIC MAINTENANCE AND PROTECTION	1	L.S.	\$ 16,500.00	\$ 16,500.00
SANITARY SEWER PIPE AND APPURTENANCES					
3	8" PVC SANITARY SEWER PIPE 8'-10'	1,630	L.F.	\$ 122.00	\$ 198,860.00
4	CLAY DIKE	13	EA.	\$ 150.00	\$ 1,950.00
5	CLEANOUTS	15	EA.	\$ 200.00	\$ 3,000.00
6	6" PVC LATERAL PIPE	300	L.F.	\$ 70.00	\$ 21,000.00
7	8" x 6" WYE	15	EA.	\$ 85.00	\$ 1,275.00
MANHOLES					
8	4 FOOT DIAMETER MANHOLES 0-10' DEEP	14	EA.	\$ 4,500.00	\$ 63,000.00
9	CONNECTION TO EXISTING MANHOLE	1	EA.	\$ 1,500.00	\$ 1,500.00
SURFACING AND RESTORATION					
VEGETATION					
10	Lawns	960	L.F.	\$ 6.00	\$ 5,760.00
MUNICIPAL PAVED					
11	Paved Street	1,660	L.F.	\$ 35.00	\$ 58,100.00
PENNDOT PAVED					
12	PAVED ROAD - S.R. 3006	1,180	L.F.	\$ 55.00	\$ 64,900.00
STREAM CROSSINGS					
13	LPS MAIN	40	L.F.	\$ 175.00	\$ 7,000.00
RAILROAD CROSSINGS					
14	8" PVC PIPE	30	L.F.	\$ 375.00	\$ 11,250.00
15	LPS MAIN	30	L.F.	\$ 175.00	\$ 5,250.00
LOW PRESSURE SEWER					
16	LPS MAIN - STATE ROAD	1000	L.F.	\$ 41.00	\$ 41,000.00
17	LPS MAIN - TOWNSHIP ROAD	670	L.F.	\$ 37.00	\$ 24,790.00
18	LPS MAIN - OUTSIDE TOWNSHIP ROAD	500	L.F.	\$ 32.00	\$ 16,000.00
19	GRINDER PUMP - SIMPLEX	13	L.F.	\$ 7,500.00	\$ 97,500.00
20	ONLINE FLUSHING STATION	2	EA.	\$ 1,750.00	\$ 3,500.00
21	END LINE FLUSHING STATION	2	EA.	\$ 1,750.00	\$ 3,500.00
22	LPS LATERAL	910	L.F.	\$ 25.00	\$ 22,750.00
23	AIR/VACUUM RELEASE VALVES	2	EA.	\$ 4,000.00	\$ 8,000.00

Assumptions:

6" PVC Lateral Pipe 20-feet per Home

Low Pressure Sewer Lateral 70-feet per Home

8-Inch Sanitary Sewer Pipe Reflects Proposed Depth

Manholes Reflect Average Depths

Multiresidential Homes Have 1 Building Sewer

PennDOT Road Restoration Assumed Trench Restoration Only. No Mill and Overlay.

Quantities Shown Above are Based on Preliminary Sanitary Sewer Alignment and Aerial Photography.

BASE ESTIMATED CONSTRUCTION COSTS	\$ 724,585.00
CONSTRUCTION CONTINGENCY @ 15%	\$ 108,687.75
ENGINEERING, ADMIN, & LEGAL FEES @ 25%	\$ 181,146.25
TOTAL ESTIMATED PROJECT COSTS	\$ 1,014,419.00
SAY	\$ 1,014,000.00
ESTIMATED NUMBER OF EDUs TO BE SERVED	35
ESTIMATED COST PER EDU	\$ 28,983.40

ADDER #1 (PRIVATE SEWER REHAB - CIPP LINING)					
PRIVATE SEWER REHABILITATION COST - CIPP LINING					
ITEM NO.	DESCRIPTION	EST. QUANTITY	UNIT	UNIT COST	EXTENSION
24	CLEANING OF 8" SANITARY SEWER MAINS	2160	L.F.	\$ 1.35	\$ 2,916.00
25	INTERNAL TELEVISIONING OF 8" SANITARY SEWER MAINS	2160	L.F.	\$ 1.45	\$ 3,132.00
26	8" CIPP LINER	2160	L.F.	\$ 35.00	\$ 75,600.00

ADDER # 1 SUBTOTAL \$ 81,648.00
 BASE ESTIMATED CONSTRUCTION COST \$ 724,585.00
 TOTAL \$ 806,233.00
 CONSTRUCTION CONTINGENCY @ 15% \$ 120,934.95
 ENGINEERING, ADMIN, & LEGAL FEES @ 25% \$ 201,558.25
 TOTAL ESTIMATED PROJECT COSTS \$ 1,128,726.20
 SAY \$ 1,129,000.00
 ESTIMATED NUMBER OF EDUs TO BE SERVED 35
 ESTIMATED COST PER EDU \$ 32,257.14

ADDER #2 (STATE ROAD 0616)					
ITEM NO.	DESCRIPTION	EST. QUANTITY	UNIT	UNIT COST	EXTENSION
GENERAL					
27	MOBILIZATION	1	L.S.	\$ 8,600.00	\$ 8,600.00
28	TRAFFIC MAINTENANCE AND PROTECTION	1	L.S.	\$ 3,000.00	\$ 3,000.00
SANITARY SEWER PIPE AND APPURTENANCES					
29	8" PVC SANITARY SEWER PIPE 8'-10'	520	L.F.	\$ 122.00	\$ 63,440.00
30	CLAY DIKE	2	EA.	\$ 150.00	\$ 300.00
31	CLEANOUTS	9	EA.	\$ 200.00	\$ 1,800.00
32	6" PVC LATERAL PIPE	180	L.F.	\$ 70.00	\$ 12,600.00
33	8" x 6" WYE	9	EA.	\$ 85.00	\$ 765.00
MANHOLES					
34	4 FOOT DIAMETER MANHOLES 0-10' DEEP	2	EA.	\$ 4,500.00	\$ 9,000.00
35	CONNECTION TO EXISTING MANHOLE	1	EA.	\$ 1,500.00	\$ 1,500.00
SURFACING AND RESTORATION					
PENNDOT PAVED					
36	PAVED ROAD - S.R. 0616	520	L.F.	\$ 55.00	\$ 28,600.00

ADDER # 2 SUBTOTAL \$ 129,605.00
 BASE ESTIMATED CONSTRUCTION COST \$ 724,585.00
 ADDER #1 SUBTOTAL \$ 81,648.00
 TOTAL \$ 935,838.00
 CONSTRUCTION CONTINGENCY @ 15% \$ 140,375.70
 ENGINEERING, ADMIN, & LEGAL FEES @ 25% \$ 233,959.50
 TOTAL ESTIMATED PROJECT COSTS \$ 1,310,173.20
 SAY \$ 1,310,000.00
 ESTIMATED NUMBER OF EDUs TO BE SERVED 44
 ESTIMATED COST PER EDU \$ 29,772.73

ADDER #3 (WALKER ROAD #'S 38 & 39)					
ITEM NO.	DESCRIPTION	EST. QUANTITY	UNIT	UNIT COST	EXTENSION
GENERAL					
37	MOBILIZATION	1	L.S.	\$ 3,400.00	\$ 3,400.00
38	TRAFFIC MAINTENANCE AND PROTECTION	1	L.S.	\$ 1,200.00	\$ 1,200.00
SURFACING AND RESTORATION					
MUNICIPAL PAVED					
39	Paved Street	360	L.F.	\$ 35.00	\$ 12,600.00
LOW PRESSURE SEWER					
40	LPS MAIN - TOWNSHIP ROAD	360	L.F.	\$ 37.00	\$ 13,320.00
41	GRINDER PUMP - SIMPLEX	2	L.F.	\$ 7,500.00	\$ 15,000.00
42	ONLINE FLUSHING STATION	1	EA.	\$ 1,750.00	\$ 1,750.00
43	LPS LATERAL	140	L.F.	\$ 25.00	\$ 3,500.00

ADDER # 3 SUBTOTAL \$ 50,770.00
 BASE ESTIMATED CONSTRUCTION COST \$ 724,585.00
 ADDER #1 SUBTOTAL \$ 81,648.00
 ADDER #2 SUBTOTAL \$ 129,605.00
 TOTAL \$ 986,608.00
 CONSTRUCTION CONTINGENCY @ 15% \$ 147,991.20
 ENGINEERING, ADMIN, & LEGAL FEES @ 25% \$ 246,652.00
 TOTAL ESTIMATED PROJECT COSTS \$ 1,381,251.20
 SAY \$ 1,381,000.00
 ESTIMATED NUMBER OF EDUs TO BE SERVED 46
 ESTIMATED COST PER EDU \$ 30,021.74

**COST ESTIMATE FOR ALTERNATIVE 10C
FOR
SHREWSBURY TOWNSHIP
SEITZLAND SANITARY SEWER EXTENSION PROJECT**
Prepared By: Matthew D. Cichy, P.E.
June 10, 2008

BASE (Clearview Drive, Railview Court, Walker Road, Baltimore Street, Cedar Lane)						
ITEM NO.	DESCRIPTION	EST.	UNIT	UNIT COST	EXTENSION	
GENERAL						
1	MOBILIZATION	1	L.S.	\$ 45,100.00	\$	45,100.00
2	TRAFFIC MAINTENANCE AND PROTECTION	1	L.S.	\$ 15,400.00	\$	15,400.00
SANITARY SEWER PIPE AND APPURTENANCES						
3	8" PVC SANITARY SEWER PIPE 8'-10'	1,630	L.F.	\$ 122.00	\$	198,860.00
4	CLAY DIKE	13	EA.	\$ 150.00	\$	1,950.00
5	CLEANOUTS	15	EA.	\$ 200.00	\$	3,000.00
6	6" PVC LATERAL PIPE	300	L.F.	\$ 70.00	\$	21,000.00
7	8" x 6" WYE	15	EA.	\$ 85.00	\$	1,275.00
MANHOLES						
8	4 FOOT DIAMETER MANHOLES 0-10' DEEP	14	EA.	\$ 4,500.00	\$	63,000.00
9	CONNECTION TO EXISTING MANHOLE	1	EA.	\$ 1,500.00	\$	1,500.00
SURFACING AND RESTORATION						
VEGETATION						
10	Lawns	460	L.F.	\$ 6.00	\$	2,760.00
MUNICIPAL PAVED						
11	Paved Street	1,660	L.F.	\$ 35.00	\$	58,100.00
PENNDOT PAVED						
12	PAVED ROAD - S.R. 3006	1,180	L.F.	\$ 55.00	\$	64,900.00
STREAM CROSSINGS						
13	LPS MAIN	20	L.F.	\$ 175.00	\$	3,500.00
RAILROAD CROSSINGS						
14	8" PVC PIPE	30	L.F.	\$ 375.00	\$	11,250.00
15	LPS MAIN	30	L.F.	\$ 175.00	\$	5,250.00
LOW PRESSURE SEWER						
16	LPS MAIN - STATE ROAD	1000	L.F.	\$ 41.00	\$	41,000.00
17	LPS MAIN - TOWNSHIP ROAD	670	L.F.	\$ 37.00	\$	24,790.00
18	LPS MAIN - OUTSIDE TOWNSHIP ROAD	0	L.F.	\$ 32.00	\$	-
19	GRINDER PUMP - SIMPLEX	11	L.F.	\$ 7,500.00	\$	82,500.00
20	ONLINE FLUSHING STATION	2	EA.	\$ 1,750.00	\$	3,500.00
21	END LINE FLUSHING STATION	1	EA.	\$ 1,750.00	\$	1,750.00
22	LPS LATERAL	770	L.F.	\$ 25.00	\$	19,250.00
23	AIR/VACUUM RELEASE VALVES	2	EA.	\$ 4,000.00	\$	8,000.00

Assumptions:

6" PVC Lateral Pipe 20-feet per Home
Low Pressure Sewer Lateral 70-feet per Home
8-inch Sanitary Sewer Pipe Reflects Proposed Depth
Manholes Reflect Average Depths
Multiresidential Homes Have 1 Building Sewer
PennDOT Road Restoration Assumed Trench Restoration Only. No Mill and Overlay.
Quantities Shown Above are Based on Preliminary Sanitary Sewer Alignment and Aerial Photography.

BASE ESTIMATED CONSTRUCTION COSTS	\$ 677,635.00
CONSTRUCTION CONTINGENCY @ 15%	\$ 101,645.25
ENGINEERING, ADMIN, & LEGAL FEES @ 25%	\$ 169,408.75
TOTAL ESTIMATED PROJECT COSTS	\$ 948,689.00
SAY	\$ 949,000.00
ESTIMATED NUMBER OF EDUs TO BE SERVED	33
ESTIMATED COST PER EOU	\$ 28,748.15

ADDER #1 (PRIVATE SEWER REHAB - CIPP LINING)					
PRIVATE SEWER REHABILITATION COST - CIPP LINING					
ITEM NO.	DESCRIPTION	EST. QUANTITY	UNIT	UNIT COST	EXTENSION
24	CLEANING OF 8" SANITARY SEWER MAINS	2160	L.F.	\$ 1.35	\$ 2,916.00
25	INTERNAL TELEVISION OF 8" SANITARY SEWER MAINS	2160	L.F.	\$ 1.45	\$ 3,132.00
26	8" CIPP LINER	2160	L.F.	\$ 35.00	\$ 75,600.00

ADDER # 1 SUBTOTAL \$ 81,648.00
BASE ESTIMATED CONSTRUCTION COST \$ 677,635.00
TOTAL \$ 759,283.00
CONSTRUCTION CONTINGENCY @ 15% \$ 113,892.45
ENGINEERING, ADMIN, & LEGAL FEES @ 25% \$ 189,820.75
TOTAL ESTIMATED PROJECT COSTS \$ 1,062,996.20
SAY \$ 1,063,000.00
ESTIMATED NUMBER OF EDUs TO BE SERVED 33
ESTIMATED COST PER EDU \$ 32,212.12

ADDER #2 (STATE ROAD 0616)					
ITEM NO.	DESCRIPTION	EST. QUANTITY	UNIT	UNIT COST	EXTENSION
GENERAL					
27	MOBILIZATION	1	L.S.	\$ 8,600.00	\$ 8,600.00
28	TRAFFIC MAINTENANCE AND PROTECTION	1	L.S.	\$ 3,000.00	\$ 3,000.00
SANITARY SEWER PIPE AND APPURTENANCES					
29	8" PVC SANITARY SEWER PIPE 8'-10'	520	L.F.	\$ 122.00	\$ 63,440.00
30	CLAY DIKE	2	EA.	\$ 150.00	\$ 300.00
31	CLEANOUTS	9	EA.	\$ 200.00	\$ 1,800.00
32	6" PVC LATERAL PIPE	180	L.F.	\$ 70.00	\$ 12,600.00
33	8" x 6" WYE	9	EA.	\$ 85.00	\$ 765.00
MANHOLES					
34	4 FOOT DIAMETER MANHOLES 0-10' DEEP	2	EA.	\$ 4,500.00	\$ 9,000.00
35	CONNECTION TO EXISTING MANHOLE	1	EA.	\$ 1,500.00	\$ 1,500.00
SURFACING AND RESTORATION					
PENNDOT PAVED					
36	PAVED ROAD - S.R. 0616	520	L.F.	\$ 55.00	\$ 28,600.00

ADDER # 2 SUBTOTAL \$ 129,605.00
BASE ESTIMATED CONSTRUCTION COST \$ 677,635.00
ADDER #1 SUBTOTAL \$ 81,648.00
TOTAL \$ 888,888.00
CONSTRUCTION CONTINGENCY @ 15% \$ 133,333.20
ENGINEERING, ADMIN, & LEGAL FEES @ 25% \$ 222,222.00
TOTAL ESTIMATED PROJECT COSTS \$ 1,244,443.20
SAY \$ 1,244,000.00
ESTIMATED NUMBER OF EDUs TO BE SERVED 42
ESTIMATED COST PER EDU \$ 29,619.05

ADDER #3 (WALKER ROAD #'S 38 & 39)					
ITEM NO.	DESCRIPTION	EST. QUANTITY	UNIT	UNIT COST	EXTENSION
GENERAL					
37	MOBILIZATION	1	L.S.	\$ 3,400.00	\$ 3,400.00
38	TRAFFIC MAINTENANCE AND PROTECTION	1	L.S.	\$ 1,200.00	\$ 1,200.00
SURFACING AND RESTORATION					
MUNICIPAL PAVED					
40	Paved Street	360	L.F.	\$ 35.00	\$ 12,600.00
LOW PRESSURE SEWER					
41	LPS MAIN - TOWNSHIP ROAD	360	L.F.	\$ 37.00	\$ 13,320.00
42	GRINDER PUMP - SIMPLEX	2	L.F.	\$ 7,500.00	\$ 15,000.00
43	ONLINE FLUSHING STATION	1	EA.	\$ 1,750.00	\$ 1,750.00
44	LPS LATERAL	140	L.F.	\$ 25.00	\$ 3,500.00

ADDER # 3 SUBTOTAL \$ 50,770.00
BASE ESTIMATED CONSTRUCTION COST \$ 677,635.00
ADDER #1 SUBTOTAL \$ 81,648.00
ADDER #2 SUBTOTAL \$ 129,605.00
TOTAL \$ 939,658.00
CONSTRUCTION CONTINGENCY @ 15% \$ 140,948.70
ENGINEERING, ADMIN, & LEGAL FEES @ 25% \$ 234,914.50
TOTAL ESTIMATED PROJECT COSTS \$ 1,315,521.20
SAY \$ 1,316,000.00
ESTIMATED NUMBER OF EDUs TO BE SERVED 44
ESTIMATED COST PER EDU \$ 29,909.09

ADDER #4 (WALKER ROAD # 40, & #15 & #16)					
ITEM NO.	DESCRIPTION	EST. QUANTITY	UNIT	UNIT COST	EXTENSION
GENERAL					
45	MOBILIZATION	1	L.S.	\$ 5,200.00	\$ 5,200.00
46	TRAFFIC MAINTENANCE AND PROTECTION	1	L.S.	\$ 1,800.00	\$ 1,800.00
SURFACING AND RESTORATION					
VEGETATION					
47	Lawns	350	L.F.	\$ 6.00	\$ 2,100.00
MUNICIPAL PAVED					
48	Paved Street	380	L.F.	\$ 35.00	\$ 13,300.00
LOW PRESSURE SEWER					
49	LPS MAIN - TOWNSHIP ROAD	730	L.F.	\$ 37.00	\$ 27,010.00
50	GRINDER PUMP - SIMPLEX	3	L.F.	\$ 7,500.00	\$ 22,500.00
51	END LINE FLUSHING STATION	1	EA.	\$ 1,750.00	\$ 1,750.00
52	LPS LATERAL	210	L.F.	\$ 25.00	\$ 5,250.00

ADDER # 4 SUBTOTAL	\$ 78,910.00
BASE ESTIMATED CONSTRUCTION COST	\$ 677,635.00
ADDER #1 SUBTOTAL	\$ 81,648.00
ADDER #2 SUBTOTAL	\$ 129,605.00
ADDER #3 SUBTOTAL	\$ 50,770.00
TOTAL	\$ 1,018,568.00
CONSTRUCTION CONTINGENCY @ 15%	\$ 152,785.20
ENGINEERING, ADMIN, & LEGAL FEES @ 25%	\$ 254,642.00
TOTAL ESTIMATED PROJECT COSTS	\$ 1,425,995.20
SAY	\$ 1,426,000.00
ESTIMATED NUMBER OF EDUs TO BE SERVED	47
ESTIMATED COST PER EDU	\$ 30,340.43

**REVISED COST ESTIMATE FOR ALTERNATIVE 11
SHREWSBURY TOWNSHIP
SEITZLAND SANITARY SEWER EXTENSION PROJECT
Prepared By: Matthew D. Cichy, P.E.
June 19, 2008**

BASE (Clearview Drive, Railview Court, Walker Road, Baltimore Street, Cedar Lane)						
ITEM NO.	DESCRIPTION	EST.	UNIT	UNIT COST	EXTENSION	
GENERAL						
1	MOBILIZATION	1	L.S.	\$ 41,600.00	\$ 41,600.00	
2	TRAFFIC MAINTENANCE AND PROTECTION	1	L.S.	\$ 14,300.00	\$ 14,300.00	
MANHOLES						
3	CONNECTION TO EXISTING MANHOLE	1	EA.	\$ 1,500.00	\$ 1,500.00	
SURFACING AND RESTORATION						
VEGETATION						
4	Lawns	960	L.F.	\$ 6.00	\$ 5,760.00	
MUNICIPAL PAVED						
5	Paved Street	1,660	L.F.	\$ 35.00	\$ 58,100.00	
PENNDOT PAVED						
6	PAVED ROAD - S.R. 3006	1,180	L.F.	\$ 55.00	\$ 64,900.00	
STREAM CROSSINGS						
7	LPS MAIN	20	L.F.	\$ 175.00	\$ 3,500.00	
RAILROAD CROSSINGS						
8	LPS MAIN	60	L.F.	\$ 175.00	\$ 10,500.00	
LOW PRESSURE SEWER						
9	LPS MAIN - STATE ROAD	1,180	L.F.	\$ 41.00	\$ 48,380.00	
10	LPS MAIN - TOWNSHIP ROAD	1,660	L.F.	\$ 37.00	\$ 61,420.00	
11	LPS MAIN - OUTSIDE TOWNSHIP ROAD	960	L.F.	\$ 32.00	\$ 30,720.00	
12	GRINDER PUMP - SIMPLEX	27	L.F.	\$ 7,500.00	\$ 202,500.00	
13	ONLINE FLUSHING STATION	4	EA.	\$ 1,750.00	\$ 7,000.00	
14	END LINE FLUSHING STATION	5	EA.	\$ 1,750.00	\$ 8,750.00	
15	LPS LATERAL	1,890	L.F.	\$ 25.00	\$ 47,250.00	
16	AIR/VACUUM RELEASE VALVES	5	EA.	\$ 4,000.00	\$ 20,000.00	

Assumptions:

6" PVC Lateral Pipe 20-feet per Home
Low Pressure Sewer Lateral 70-feet per Home
8-inch Sanitary Sewer Pipe Reflects Proposed Depth
Manholes Reflect Average Depths
Multiresidential Homes Have 1 Building Sewer
PennDOT Road Restoration Assumed Trench Restoration Only. No Mill and Overlay.
Quantities Shown Above are Based on Preliminary Sanitary Sewer Alignment and Aerial Photography.

BASE ESTIMATED CONSTRUCTION COSTS	\$ 626,180.00
CONSTRUCTION CONTINGENCY @ 15%	\$ 93,927.00
ENGINEERING, ADMIN, & LEGAL FEES @ 25%	\$ 156,545.00
TOTAL ESTIMATED PROJECT COSTS	\$ 876,652.00
SAY	\$ 877,000.00
EST NUMBER OF CONNETIONS TO BE SERVED	27
ESTIMATED COST PER CONNECTION	\$ 32,468.59

ADDER #1 (PRIVATE SEWER REHAB - CIPP LINING)					
PRIVATE SEWER REHABILITATION COST - CIPP LINING					
ITEM NO.	DESCRIPTION	EST. QUANTITY	UNIT	UNIT COST	EXTENSION
17	CLEANING OF 8" SANITARY SEWER MAINS	2160	L.F.	\$ 1.35	\$ 2,916.00
18	INTERNAL TELEVISIONING OF 8" SANITARY SEWER MAINS	2160	L.F.	\$ 1.45	\$ 3,132.00
19	8" CIPP LINER	2160	L.F.	\$ 35.00	\$ 75,600.00

ADDER #1 SUBTOTAL \$ 81,648.00
 BASE ESTIMATED CONSTRUCTION COST \$ 626,180.00
 TOTAL \$ 707,828.00
 CONSTRUCTION CONTINGENCY @ 15% \$ 106,174.20
 ENGINEERING, ADMIN, & LEGAL FEES @ 25% \$ 176,957.00
 TOTAL ESTIMATED PROJECT COSTS \$ 990,959.20
 SAY \$ 991,000.00
 EST NUMBER OF CONNETIONS TO BE SERVED 27
 ESTIMATED COST PER CONNECTION \$ 36,703.70

ADDER #2 (STATE ROAD 0616)					
ITEM NO.	DESCRIPTION	EST.	UNIT	UNIT COST	EXTENSION
GENERAL					
20	MOBILIZATION	1	L.S.	\$ 8,600.00	\$ 8,600.00
21	TRAFFIC MAINTENANCE AND PROTECTION	1	L.S.	\$ 3,000.00	\$ 3,000.00
SANITARY SEWER PIPE AND APPURTENANCES					
22	8" PVC SANITARY SEWER PIPE 8'-10'	520	L.F.	\$ 122.00	\$ 63,440.00
23	CLAY DIKE	2	EA.	\$ 150.00	\$ 300.00
24	CLEANOUTS	9	EA.	\$ 200.00	\$ 1,800.00
25	6" PVC LATERAL PIPE	180	L.F.	\$ 70.00	\$ 12,600.00
26	8" x 6" WYE	9	EA.	\$ 85.00	\$ 765.00
MANHOLES					
27	4 FOOT DIAMETER MANHOLES 0-10' DEEP	2	EA.	\$ 4,500.00	\$ 9,000.00
28	CONNECTION TO EXISTING MANHOLE	1	EA.	\$ 1,500.00	\$ 1,500.00
SURFACING AND RESTORATION					
PENNDOT PAVED					
29	PAVED ROAD - S.R. 0616	520	L.F.	\$ 55.00	\$ 28,600.00

ADDER #2 SUBTOTAL \$ 129,605.00
 BASE ESTIMATED CONSTRUCTION COST \$ 626,180.00
 ADDER #1 SUBTOTAL \$ 81,648.00
 TOTAL \$ 837,433.00
 CONSTRUCTION CONTINGENCY @ 15% \$ 125,614.95
 ENGINEERING, ADMIN, & LEGAL FEES @ 25% \$ 209,358.25
 TOTAL ESTIMATED PROJECT COSTS \$ 1,172,406.20
 SAY \$ 1,172,000.00
 EST NUMBER OF CONNETIONS TO BE SERVED 36
 ESTIMATED COST PER CONNECTION \$ 32,555.56



CULTURAL RESOURCE NOTICE

DEP USE ONLY
Date Received

Read the instructions before completing this form.

SECTION A. APPLICANT IDENTIFIER			
Applicant Name	Shrewsbury Township		
Street Address	11505 Susquehanna Trail South		
City	Glen Rock	State	PA Zip 17327
Telephone Number	(717) 227-0867		
Project Title	Minor Act 537 Update Revision		
SECTION B. LOCATION OF PROJECT			
Municipality	Shrewsbury Township	County Name	York County DEP County Code
SECTION C. PERMITS OR APPROVALS			
Name of Specific DEP Permit or Approval Requested:	Minor Act 537 Update Revision		
Anticipated federal permits:			
☐ Surface Mining	☐ 404 Water Quality Permit		
☐ Army Corps of Engineers	☐ Federal Energy Regulatory Commission		
☐ 401 Water Quality Certification	☐ Other:		
SECTION D. GOVERNMENT FUNDING SOURCES			
☒ State: (Name) PENNVEST	☐ Local: (Name)		
☐ Federal: (Name)	☐ Other: (Name)		
SECTION E. RESPONSIBLE DEP REGIONAL, CENTRAL, DISTRICT MINING or OIL & GAS MGMT OFFICE			
DEP Regional Office Responsible for Review of Permit Application		☐ Central Office (Harrisburg)	
☐ Southeast Regional Office (Conshohocken)	☐ Northeast Regional Office (Wilkes-Barre)		
☒ Southcentral Regional Office (Harrisburg)	☐ Northcentral Regional Office (Williamsport)		
☐ Southwest Regional Office (Pittsburgh)	☐ Northwest Regional Office (Meadville)		
☐ District Mining Office:	☐ Oil & Gas Office:		
SECTION F. RESPONSIBLE COUNTY CONSERVATION DISTRICT, if applicable.			
County Conservation District		Telephone Number, if known	
York County		(717) 840-7430	
SECTION G. CONSULTANT			
Consultant, if applicable	Herbert, Rowland & Grubic, Inc. c/o Joshua T. Fox, E.I.T.		
Street Address	369 East Park Drive		
City	Harrisburg	State	PA Zip 17111
Telephone Number	(717) 564-1121		

SECTION H. PROJECT BOUNDARIES AND DESCRIPTION**REQUIRED**

Indicate the total acres in the property under review. Of this acreage, indicate the total acres of earth disturbance for the proposed activity.

Attach a 7.5' U.S.G.S. Map indicating the defined boundary of the proposed activity.

Attach photographs of any building over 50 years old. Indicate what is to be done to all buildings in the project area.

Attach a narrative description of the proposed activity.

Attach the return receipt of delivery of this notice to the Pennsylvania Historical and Museum Commission.

REQUESTED

Attach photographs of any building over 40 years old.

Attach site map, if available.

SECTION I. SIGNATURE BLOCK

Applicant's Signature

6/26/08

Date of Submission of Notice to PHMC

**Shrewsbury Township
Minor Act 537 Update Revision
PHMC Request**

Project Narrative

Shrewsbury Township is currently preparing a Minor Act 537 Update Revision for providing public sanitary sewer service to the Seitzland Area.

At this time, the proposed alternative includes the installation of approximately 3,800-feet of low pressure sewer main and 27 grinder pump stations. It is anticipated that approximately 960-feet of low pressure sewer main would require right-of-way acquisition from the necessary property owners. The proposed sanitary sewer facilities are indicated on the attached map.

We believe that some of the structures in the Seitzland Area are over 50 years old; however, none of the structures within the area are expected to be impacted by this project. All new facilities will be constructed below grade within existing roadways, access drives, and right-of-way.

The Seitzland study area includes approximately 20.5 acres. The actual area of disturbance for the low pressure sewer and grinder pump installation is anticipated to be approximately 0.28 acres.

SENDER: COMPLETE THIS SECTION		COMPLETE THIS SECTION ON DELIVERY	
■ Complete items 1, 2, and 3. Also complete item 4 if Restricted Delivery is desired. ■ 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.		A. Signature ☐ Agent ☐ Address B. Received by (Printed Name) _____ C. Date of Delivery JUN 30 2008 D. Is delivery address different from item 1? ☐ Yes If YES, enter delivery address below: ☐ No	
1. Article Addressed to: PA HISTORICAL & MUSEUM COMM BUR OF HISTORIC PRESERVATION 400 NORTH ST SECOND FLOOR HARRISBURG PA 17120-0093		3. Service Type ☒ Certified Mail ☐ Express Mail ☐ Registered ☒ Return Receipt for Merchandise ☐ Insured Mail ☐ C.O.D.	
2. Article Number (Transfer from service label)		4. Restricted Delivery? (Extra Fee) ☐ Yes	
7006 2760 0005 6272 9069			

PS Form 3811, February 2004 Domestic Return Receipt 102595-02-M-11

7006 2760 0005 6272 9069

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(Domestic Mail Only; No Insurance Coverage Provided)

For delivery information, visit our website at www.usps.com

OFFICIAL USE

Postage	\$
Certified Fee	
Return Receipt Fee (Endorsement Required)	
Restricted Delivery Fee (Endorsement Required)	
Total Postage & Fees	\$

Sent to: PA HISTORICAL & MUSEUM COMM

Street, Apt. No., or PO Box No.: BUR OF HISTORIC PRESERVATION

City, State, ZIP+4: 400 NORTH ST SECOND FLOOR

HARRISBURG PA 17120-0093

PS Form 3800, August 2005

See Reverse for Instructions

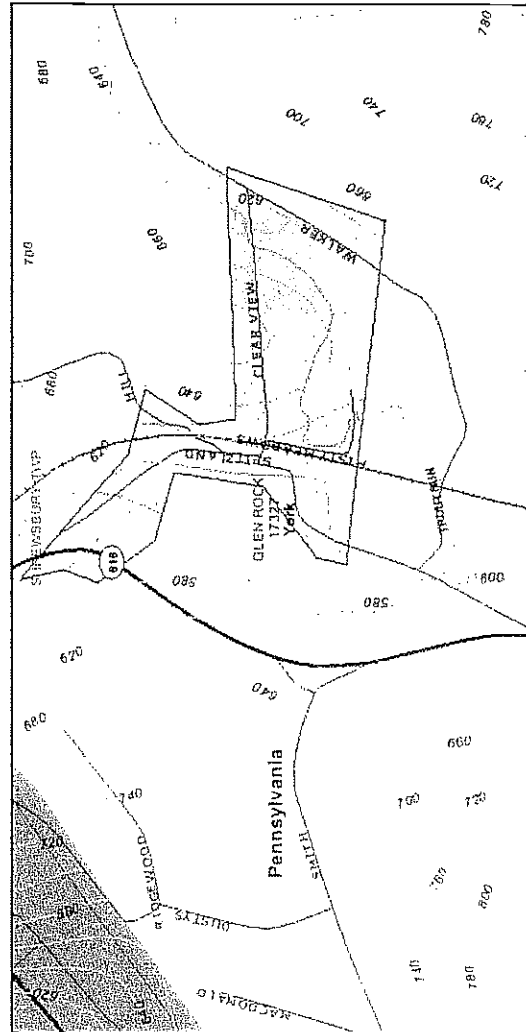
PNDI Project Environmental Review Receipt

Project Search ID: 20080626147548

Project Name: Minor Act 537 Update Revision - Seitzland

Date: 6/26/2008 4:25:05 PM

Project Location



Project Name: Minor Act 537 Update Revision - Seitzland

On Behalf Of: Local Government

Project Search ID: 20080626147548

Date: 6/26/2008 4:24:57 PM

of Potential Impacts: 2

Jurisdictional Agency:

Pennsylvania Fish and Boat Commission,

US Fish and Wildlife Service

Project Category: Waste Transfer, Treatment, and Disposal, Liquid

waste/Effluent, Sewage module/Act 537 plan

Project Location

Decimal Degrees: 39.78805 N, -76.72441 W

Degrees Minutes Seconds: 39° 47' 17" N, 76° 43' 27.9" W

Lambert: 359230.67135777, 288821.79080397 ft

ZIP Code: 17327

County: York

Township/Municipality: SHREWSBURY TWP

USGS 7.5 Minute Quadrangle ID: 852

Quadrangle Name: GLEN ROCK

Project Area: 20.5 acres

Location Accuracy

Project locations are assumed to be both precise and accurate for the purposes of environmental review. The creator/owner of the Project Review Receipt is solely responsible for the project location and thus the correctness of the Project Review Receipt content.

2 Potential Impacts

Under the Following Agencies' Jurisdiction:
Pennsylvania Fish and Boat Commission,
US Fish and Wildlife Service

Pennsylvania State Programmatic General Permit (PASPGP)

Please note that regardless of PNDI search results, projects requiring a Chapter 105 DEP individual permit or GP 5, 6, 7, 8, 9 or 11 in certain counties (Adams, Berks, Bucks, Chester, Cumberland, Delaware, Lancaster, Lebanon, Lehigh, Monroe, Montgomery, Northampton, Schuylkill and York) are required by DEP to comply with the bog turtle habitat screening requirements of the PASPGP.

PNDI Project Environmental Review Receipt

Project Search ID: 20080626147548

Project Name: Minor Act 537 Update Revision - Seitzland

Date: 6/26/2008 4:25:05 PM

Pennsylvania Natural Diversity Inventory (PNDI) records indicate there are potential impacts on special concern species and resources within the project area. If the project is pursued, the jurisdictional agency/agencies indicated require that the instructions below regarding potential impacts and/or avoidance measures be followed in their entirety.

These determinations were based on the project-specific information you provided, including the exact project location; the project type, description, and features; and any responses to questions that were generated during this search. If any of the information you provided does not accurately reflect this project, or if project plans change, DEP and the jurisdictional agencies require that another PNDI review be conducted.

This response represents the most up-to-date summary of the PNDI data files and is good for one(1) year from the date of this PNDI Project Environmental Review Receipt.

1 potential impact

The Applicant should MAIL/FAX a copy of this Project Environmental Review Receipt, a cover letter with project narrative, acreage to be impacted, how construction/maintenance activity is to be accomplished, township/municipality and county where project is located, and a USGS 7.5 minute quadrangle with project boundary and quad name marked on the map.

Natural Diversity Section
Pennsylvania Fish and Boat Commission
Division of Environmental Services
450 Robinson Lane
Bellefonte, PA 16823

Please mail only one (1) copy of the project review request. Do not email the project information. Allow 30 days for completion of the project review from

the date of PFBC receipt of the project review request.

1 potential impact

The Applicant should MAIL a copy of this Project Environmental Review Receipt, a cover letter with project narrative, acreage to be impacted, how construction/maintenance activity is to be accomplished, township/municipality and county where project is located, and a USGS 7.5 minute quadrangle with project boundary and quad name marked on the map.

US Fish and Wildlife Service.
Endangered Species Biologist
315 South Allen Street, Suite 322
State College, PA 16801

DISCLAIMER

The PNDI environmental review website is a preliminary environmental screening tool. It is not a substitute for information obtained from a field survey of the project area conducted by a biologist. Such surveys may reveal previously undocumented populations of species of special concern. In addition, the PNDI only contains information about species occurrences that have actually been reported to the Pennsylvania Natural Heritage Program.

TERMS OF USE

Upon signing into the PNDI environmental review website, and as a condition of using it, you agreed to certain terms of use. These are as follows:

The web site is intended solely for the purpose of screening projects for potential impacts on resources of special concern in accordance with the instructions provided on the web site. Use of the web site for any other purpose or in any other way is prohibited and subject to criminal prosecution under federal and state law, including but not limited to the following:

PNDI Project Environmental Review Receipt

Project Search ID: 20080626147548
Project Name: Minor Act 537 Update Revision - Seitzland
Date: 6/26/2008 4:25:05 PM

Computer Fraud and Abuse Act of 1986, as amended, 18 U.S.C. Â§ 1030; Pennsylvania Crimes Code, Â§ 4911 (tampering with public records or information), Â§ 7611 (unlawful use of computer and other computer crimes), Â§ 7612 (disruption of service), Â§ 7613 (computer theft), Â§ 7614 (unlawful duplication), and Â§ 7615 (computer trespass).

The PNHP reserves the right at any time and without notice to modify or suspend the web site and to terminate or restrict access to it.

The terms of use may be revised from time to time. By continuing to use the web site after changes to the terms have been posted, the user has agreed to accept such changes.

This review is based on the project information that was entered. The jurisdictional agencies and DEP require that the review be redone if the project area, location, or the type of project changes. If additional information on species of special concern becomes available, this review may be reconsidered by the jurisdictional agency.

PRIVACY and SECURITY

This web site operates on a Commonwealth of Pennsylvania computer system. It maintains a record of each environmental review search result as well as contact information for the project applicant. These records are maintained for internal tracking purposes. Information collected in this application will be made available only to the jurisdictional agencies and to the Department of Environmental Protection, except if required for law enforcement purposesâ€”see paragraph below.

This system is monitored to ensure proper operation, to verify the functioning of applicable security features, and for other like purposes. Anyone using this system consents to such monitoring and is advised that if such monitoring reveals evidence of possible criminal activity, system personnel may provide the evidence to law enforcement officials. See Terms of Use.

In order for this project to be considered for subsequent review, a signed and initialed copy of this receipt is required by the agency or agencies indicated. DEP requires that a signed and initialed copy of this receipt, along with any required documentation from jurisdictional agencies concerning resolution of potential impacts, be submitted in applications for permits requiring PNDI review. See DEP PNDI policy at www.naturalheritage.state.pa.us or visit the following websites for further information.

Regional Offices

[Http://www.dep.state.pa.us/dep/deputate/fieldops/map.pdf](http://www.dep.state.pa.us/dep/deputate/fieldops/map.pdf)

District Mining Operations

[Http://www.dep.state.pa.us/dep/deputate/minres/Districts/homepage/Default.htm](http://www.dep.state.pa.us/dep/deputate/minres/Districts/homepage/Default.htm)

Oil and Gas Management

[Http://www.dep.state.pa.us/dep/deputate/minres/OILGAS/CustomerNeeds.htm](http://www.dep.state.pa.us/dep/deputate/minres/OILGAS/CustomerNeeds.htm)

Print this Project Review Receipt using your Internet browser's print function and keep it as a record of your search.

Signature: _____

Date: 6/26/08

Project applicant on whose behalf this search was conducted:

APPLICANT

PNDI Project Environmental Review Receipt

Project Search ID: 20080626147548

Project Name: Minor Act 537 Update Revision - Seitzland

Date: 6/26/2008 4:25:05 PM

Contact Name: GEORGE MONTANARELLI
Address: 11305 SWEETSHAW TRAIL SOUTH
City, State, Zip: Glen Rock, PA 17327
Phone: (717) 227-0867
Email: gmontanarelli@yahoo.com

US Fish and Wildlife Service.
Endangered Species Biologist
315 South Allen Street, Suite 322.
State College, PA 16801

PERSON CONDUCTING SEARCH (if not applicant)

Contact Name: JOSHUA T. FOX, Esq.
Address: 329 EAST PARK DRIVE
City, State, Zip: HARRISBURG, PA 17111
Phone: (717) 564-1121
Email: jfox@hcg-inc.com

The following contact information is for the agencies involved in this Pennsylvania Natural Diversity Inventory environmental review process. Please read this entire receipt carefully as it contains instructions for how to contact these agencies for further review of this particular project.

Natural Diversity Section
Pennsylvania Fish and Boat Commission
Division of Environmental Services
450 Robinson Lane
Belleville, PA 16823

CERTIFIED MAIL
RETURN RECEIPT REQUESTED

June 27, 2008

US Fish and Wildlife Service
Endangered Species Biologist
315 South Allen Street, Suite 322
State College, Pennsylvania 16801

Re: Seitzland Area Minor Act 537 Plan Amendment
Shrewsbury Township, York County

Dear Sir or Madam:

I am contacting you to request comment on possible impact upon natural resources within your jurisdiction. Please find enclosed a project narrative, PNDI Project Environmental Review Receipt, and USGS mapping with project limits shown.

Please contact me if you have any questions or need further information. I look forward to hearing from you.

Very Truly Yours,

Herbert, Rowland & Grubic, Inc.



Joshua T. Fox, E.I.T.
Water and Energy Staff Professional

JTF/vjm
002456.0012/Ph 2
X:\24\2456\2456012\Planning\PNDI\USWildlife Letter.doc

Enclosure

c: File

SENDER: COMPLETE THIS SECTION	COMPLETE THIS SECTION ON DELIVERY
■ Complete items 1, 2, and 3. Also complete item 4 if Restricted Delivery is desired. ■ 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.	A. Signature Dianne B Thees ☐ Agent ☐ Address B. Received by (Printed Name) Dianne B Thees C. Date of Delivery 6/30/08 D. Is delivery address different from item 1? ☐ Yes If YES, enter delivery address below: ☐ No
1. Article Addressed to: US Fish and Wildlife Service Endangered Species Biologist 315 S Allen St, Suite 322 State College, PA 16801	3. Service Type ☒ Certified Mail ☐ Express Mail ☐ Registered ☒ Return Receipt for Merchandise ☐ Insured Mail ☐ C.O.D. 4. Restricted Delivery? (Extra Fee) ☐ Yes
2. Article Number (Transfer from service label)	7006 2760 0005 6272 9021

PS Form 3811, February 2004

Domestic Return Receipt

102595-02-M-16

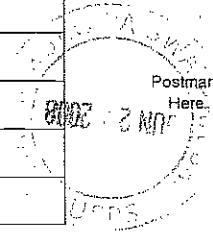
U.S. Postal Service™

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For delivery information visit our website at www.usps.com

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Postage	\$	 Postmark Here
Certified Fee		
Return Receipt Fee (Endorsement Required)		
Restricted Delivery Fee (Endorsement Required)		
Total Postage & Fees	\$	

Sent To

US Fish and Wildlife Service

Endangered Species Biologist

315 S Allen St, Suite 322

State College, PA 16801

PS Form 3800, August 2006 See Reverse for Instructions

7006 2760 0005 6272 9021

PNDI # 20080626147548USFWS Project # 2008-1555

U.S. FISH AND WILDLIFE SERVICE
315 South Allen Street, Suite 322, State College, PA 16801

This responds to your inquiry about a PNDI Internet Database search that resulted in a potential conflict with a federally listed, proposed or candidate species.

PROJECT LOCATION INFORMATION

County: York
Township: Shrewsbury

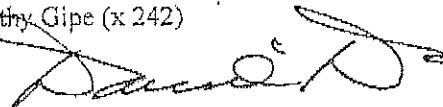
MISC INFORMATIONDate received by FWS: 06/30/2008USFWS COMMENTS ☒ FAXED ☐ MAILEDFax #: 717-564-1158To: Joshua FoxAffiliation: HRGSPECIFIC PROJECT: Seitzland Act 537 Update**FISH AND WILDLIFE SERVICE COMMENT(s):**☒ **NOT LIKELY TO ADVERSELY AFFECT**

The federally listed bog turtle occurs or may occur in or near the project area. However, based on our review of the information provided, including the project description and location, **no adverse effects to this species are likely to occur if no wetlands are directly or indirectly impacted by project activities.** If there is any change in the location, scale, scope, layout or design of the project, or if wetlands are located within the area of direct or indirect impacts, further consultation or coordination with the Service will be necessary.

The above determination is valid for two years from the date of this letter. In addition, this response relates only to federally listed, proposed, and candidate species under our jurisdiction, based on an office review of the proposed project's location and anticipated impacts. No field inspection of the project area has been conducted by this office. Consequently, comments on this form are not to be construed as addressing other Service concerns under the Fish and Wildlife Coordination Act or other authorities. *Please reference the above PNDI # and USFWS Project # in any future correspondence regarding this project.*

This review was conducted by the biologist listed below. He/she can be contacted at 814-234-4090.

☐ Bonnie Dershem (x 234) ☒ Pamela Shellenberger (x 241) ☐ Robert Anderson (x 228)
☐ Kathy Gipe (x 242)

SIGNATURE: 

Supervisor, Pennsylvania Field Office

DATE: 7-28-08

CERTIFIED MAIL
RETURN RECEIPT REQUESTED

June 27, 2008

Natural Diversity Section
Pennsylvania Fish and Boat Commission
Division of Environmental Services
450 Robinson Lane
Bellfonte, Pennsylvania 16823

Re: Seitzland Area Minor Act 537 Plan Amendment
Shrewsbury Township, York County

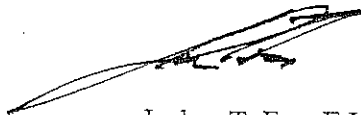
Dear Sir or Madam:

I am contacting you to request comment on possible impact upon natural resources within your jurisdiction. Please find enclosed a project narrative, PNDI Project Environmental Review Receipt, and USGS mapping with project limits shown.

Please contact me if you have any questions or need further information. I look forward to hearing from you.

Very Truly Yours,

Herbert, Rowland & Grubic, Inc.



Joshua T. Fox, E.I.T.
Water and Energy Staff Professional

JTF/vjm
002456.0012/Ph 2
X:\24\2456\2456012\Planning\PNDI\FBC Letter.doc

Enclosure

c: File

SENDER: COMPLETE THIS SECTION	COMPLETE THIS SECTION ON DELIVERY
■ Complete items 1, 2, and 3. Also complete item 4 if Restricted Delivery is desired. ■ 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.	A. Signature X ☐ Agent ☐ Addressee B. Received by (Printed Name) C. Date of Delivery X Julie Miller D. Is delivery address different from item 1? ☐ Yes If YES, enter delivery address below: ☐ No
1. Article Addressed to: Natural Diversity Section Pennsylvania Fish and Boat Commission Division of Environmental Services 450 Robinson Ln Bellfonte, PA 16823	3. Service Type ☒ Certified Mail ☐ Registered ☐ Insured Mail ☐ Express Mail ☒ Return Receipt for Merchandise ☐ C.O.D. 4. Restricted Delivery? (Extra Fee) ☐ Yes
2. Article Number (Transfer from service label)	7006 2760 0005 6272 9014

PS Form 3811, February 2004

Domestic Return Receipt

102595-02-M-1

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City, State, ZIP+4 Division of Environmental Services

450 Robinson Ln

Bellfonte, PA 16823

PS Form 3800, August 2005

See reverse for instructions

7006 2760 0005 6272 9014



York County Department of Parks and Recreation

ADMINISTRATIVE HEADQUARTERS: 400 Mundis Race Road, York, PA 17406-9721

Phone: 717.840.7440

Fax: 717.840.7403

E-mail: parks@york-county.org

Website: <http://www.york-county.org>

Nixon County Park Nature Center

5922 Nixon Drive

York, PA 17403-9677

717.428.1961

Thomas R. Brant
Executive Director

July 14, 2008

Mr. Joshua T. Fox, E.I.T.
Water and Energy Staff Professional
Herbert, Rowland & Grubic, Inc.
369 East Park Drive
Harrisburg, PA 17111

**RE: Seitzland Area Minor Act 537 Plan Amendment
Shrewsbury Township, York County**

Dear Mr. Fox:

I am in receipt of your letter dated July 10, 2008 seeking comment on the above stated project and its impact on the Heritage Rail Trail County Park (HRTCP). This is in regard to the planning of a public sanitary sewer service to the Seitzland area of Shrewsbury Township.

At this point, I have no issues with the project and its crossing the HRTCP. I request that I am kept informed, able to provide input with the engineering drawings and involved in the design process. This proposed project actually crosses the HRTCP at two locations within our 66-foot corridor that entails a walking trail and active rail line. You stated installation by trenchless construction methods, but again this is a 66-foot wide corridor.

In addition, I am seeking consideration of potential service during this project if the opportunity affords itself.

Thank you for contacting me and offering participation in the design and engineering of this project.

Sincerely,

Thomas R. Brant
Executive Director

Cc: Chuck Noll, Administrator/Chief Clerk, County of York
John A. Klinedinst, C.S. Davidson, Inc., York, PA



Apollo • Heritage Rail Trail • John C. Rudy • Rocky Ridge • Spring Valley • P. Joseph Raab • William H. Kain • Richard M. Nixon • Wallace-Cross Mill

Things of Beauty Are Yours Forever

CERTIFIED MAIL
RETURN RECEIPT REQUESTED

July 10, 2008

York County Department of Parks and Recreation
400 Mundis Race Road
York, Pennsylvania 17406-9721

Re: Seitzland Area Minor Act 537 Plan Amendment
Shrewsbury Township, York County

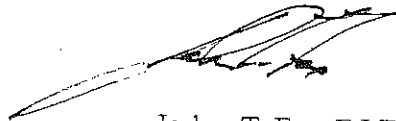
Dear Sir or Madam:

I am contacting you to request comment on possible impact upon the Heritage Rail Trail that is under your jurisdiction. We are currently planning a sanitary sewer extension to provide public sanitary sewer service to the Seitzland area of Shrewsbury Township. The proposed sanitary facilities are expected to make two (2) crossings of the Heritage Rail Trail near Railview Court and State Route 3006. Because of the Trail's proximity to the existing railroad, we would anticipate the sanitary sewer facilities would be installed by trenchless construction methods, minimizing the disturbance to the Heritage Rail Trail. Please find enclosed a project narrative, USGS mapping with project limits shown, and an exhibit showing the proposed sanitary sewer facilities in relation to the Heritage Rail Trail. Please note that the proposed sanitary sewer facilities are conceptual and actual locations will be determined during preliminary design.

Please contact me if you have any questions or need further information. I look forward to hearing from you.

Very Truly Yours,

Herbert, Rowland & Grubic, Inc.



Joshua T. Fox, E.I.T.
Water and Energy Staff Professional

JTF/vjm
002456.0012/Ph 2
X:\24\2456\2456012\Planning\YCDPR.doc

Enclosure

c: File

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Restricted Delivery Fee (Endorsement Required)	
Total Postage & Fees	\$ 5.90

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Sent To
 Street, Apt. No.,
 or PO Box No. York County Dept of Parks & Recreation
 400 Mundis Race Rd
 City, State, ZIP+4 York PA 17406-9721

PS Form 3800, August 2005

2456.0012 / 4 CD7R

SENDER: COMPLETE THIS SECTION	COMPLETE THIS SECTION ON DELIVERY
■ Complete Items 1, 2, and 3. Also complete Item 4 if Restricted Delivery is desired. ■ 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: York County Dept of Parks & Recreation 400 Mundis Race Rd York PA 17406-9721	A. Signature x <i>Kay A Kraft</i> ☐ Agent ☐ Addressee B. Received by (Printed Name) C. Date of Delivery D. Is delivery address different from Item 1? ☐ Yes If YES, enter delivery address below: ☐ No JUL 11 2008 3. Service Type ☒ Certified Mail ☐ Express Mail ☐ Registered ☒ Return Receipt for Merchandise ☐ Insured Mail ☐ C.O.D. 4. Restricted Delivery? (Extra Fee) ☐ Yes
2. Article Number (Transfer from service label)	7006 2760 0005 6272 9007

PS Form 3811, February 2004

Domestic Return-Receipt

102595-02-M-1540

RESOLUTION FOR PLAN REVISION

RESOLUTION OF THE SUPERVISORS OF SHREWSBURY TOWNSHIP, YORK 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 there under, Chapter 71 of Title 25 of 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, Herbert Rowland & Grubic, Inc. was selected as the consultant to assist the Board of Supervisors with preparation of a Sewage Facilities Planning Module which provides for sewage facilities in a portion of Shrewsbury Township and

The alternative of choice to be implemented is the installation of a gravity sewer system to serve 36 residences and commercial building in the Seitzland area of the Township. See Alternative 12A. The key implementation activities/dates include DEP approval of planning module/begin preliminary design - May 2009; submit funding application to PENNVEST - January 2010; begin construction - May 2010; connect to public sewer - June 2011.

WHEREAS, Shrewsbury 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 Shrewsbury 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, Jodi L. Brown, Secretary, Shrewsbury Township Board of Supervisors hereby certify that the foregoing is a true copy of Resolution No. 2009-06, adopted April 1, 2009.

AUTHORIZED SIGNATURE

MUNICIPAL SEAL

Jodi L. Brown

