

Tables

**ONEIDA CREEK WATER QUALITY IMPROVEMENT TASK FORCE
SEWER SYSTEM EVALUATIONS**

TABLE 1

SOILS CLASSIFICATION FOR SUB-AREAS 6A, 6B, 7, 8, 12, AND 13

Sources: USDA, SCS, "Soil Survey of Madison County" and USDA, SCS, "Soil Survey of Oneida County"

| AREA | SOIL NAME | SYMBOL | DEPTH TO W.T. | DEPTH TO ROCK (in.) | | PERMEABILITY | | SLOPE | SEASONAL FLOODING | FROST ACTION | OTHER COMMENTS | |
|-------------------------|-------------------------|-----------|---------------|---------------------|---------------------------|--|--|----------------------|-------------------------|---|--------------------------------------|-------------------------|
| | | | | | | (in./hr) | (min/in) | | | | | |
| 6 | WAKEVILLE SILT LOAM | 4 | 0.5 - 1.5 | > 5 | MOD. | 0.6 - 2.0, 0.06 - 0.2 | (< 9") 30 -100 (9" - 61") 300 - 1000 | NO INFO. NO INFO. | SUBJ. TO FLOODING | HIGH HIGH | SOMEWHAT POORLY DRAINED UNDRAINED | |
| | WAYLAND SILT LOAM | 7 | 0 - 0.5 | > 3.5 | SLOW | | | | | | | |
| | CARLISLE MUCK | 95 | 0 | > 4.5 | MOD. RAPID | 2.0 - 6.0 | 10 - 30 | NO INFO. | | HIGH | | UNDRAINED; HYDRIC |
| | MINOA FINE SANDY LOAM | 750B | 0.5 - 1.5 | > 5 | MOD. | 0.6 - 2.0 | 30 -100 | 0-6 % | | HIGH | | SOMEWHAT POORLY DRAINED |
| | ARKPORT FINE SANDY LOAM | 78A | > 3, > 6 | > 6 | MOD. RAPID | 2.0 - 6.0 | (0" - 68") 10 - 30 | 0-3 % | | MODERATE | WELL DRAINED WELL DRAINED | |
| | | 78B | | | MOD. RAPID | | | 3-8 % | | MODERATE | | |
| | | 78C | | | MOD. RAPID | | | 8-15 % | | MODERATE | | |
| | | | | | MOD. RAPID | | | | | | | |
| 7 | ARKPORT FINE SANDY LOAM | 78B | > 3, > 6 | > 6 | MOD. RAPID | 2.0 - 6.0 | (0" - 68") 10 - 30 | 3-8 % | | MODERATE | WELL DRAINED | |
| 8 | LIMA SILT LOAM | 126A | 1.5 - 2.0 | > 5 | MOD. TO SLOW | 0.6 - 2.0, < 0.2 | (0" - 23") 30 - 100 (23" - 60") > 300 | 0-3 % | FREQ. FLOODED | MODERATE | MOD. WELL DRAINED; PERCH W.T. | |
| | PHELPS SILT LOAM | 28A | 1.5 - 2.0 | > 5 | MOD. TO RAPID | 0.6 - 2.0, > 2.0 | (0" -27") 30 - 100 (27" - 60) 3 - 30 | 0-3 % | | HIGH | MOD. WELL DRAINED; APPAR. W.T. | |
| | MINOA FINE SANDY LOAM | 750B | 0.5 - 1.5 | > 5 | MOD. | 0.6 - 2.0 | 30 -100 | 0-6 % | | HIGH | SOMEWHAT POORLY DRAINED | |
| | ARKPORT FINE SANDY LOAM | 78A | > 3, > 6 | > 6 | MOD. RAPID | 2.0 - 6.0 | (0" - 68") 10 - 30 | 0-3 % | | MODERATE | WELL DRAINED | |
| | | 78B | | | MOD. RAPID | | | 3-8 % | | MODERATE | WELL DRAINED | |
| | | 78C | | | MOD. RAPID | | | 8-15 % | | MODERATE | WELL DRAINED | |
| APPLETON SILT LOAM | 372A | 0.5 - 1.0 | > 5 | MOD. TO SLOW | 0.6 - 2.0, 0.06 - 0.2 | (0" - 12") 30 -100 (12" - 62") 300 - 1000 | 0-3 % | HIGH | SOMEWHAT POORLY DRAINED | | | |
| WAKEVILLE SILT LOAM | 4 | 0.5 - 1.5 | > 5 | MOD. | 0.2 - 2.0, < 2.0 | 30 - 300, > 30 | NO INFO. | FREQ. FLOODED | HIGH | SOMEWHAT POORLY DRAINED HYDRIC; WELL DRAINED/POOR DRAINE | | |
| UDIFLUVENTS-FLUVAQUENTS | 1 | 2 - 6 | > 5 | NO. INFO | | | NO. INFO. | | NO. INFO. | | MODERATE | |
| UDORTHENTS, SMOOTHED | 22 | 3 - 6 | > 5 | NO. INFO | | | NO. INFO | | NO. INFO | | HIGH | |
| 12 | WAKEVILLE SILT LOAM | 4 | 0.5 - 1.5 | > 5 | MOD. | 0.6 - 2.0, 0.06 - 0.2 | (< 9") 30 -100 (9" - 61") 300 - 1000 | NO INFO. NO INFO. | SUBJ. TO FLOODING | HIGH HIGH | SOMEWHAT POORLY DRAINED UNDRAINED | |
| | WAYLAND SILT LOAM | 7 | 0 - 0.5 | > 3.5 | SLOW | | | | | | | |
| | CARLISLE MUCK | | | 0 > 4.5 | MOD. RAPID | 2.0 - 6.0 | 10 - 30 | NO INFO. | | HIGH | | UNDRAINED; HYDRIC |
| | ARKPORT FINE SANDY LOAM | 78A | > 3, > 6 | > 6 | MOD. RAPID | 2.0 - 6.0 | (0" - 68") 10 - 30 | 0-3 % | | MODERATE | | WELL DRAINED |
| | | 78B | | | MOD. RAPID | | | 3-8 % | | MODERATE | | WELL DRAINED |
| | | 78C | | | MOD. RAPID | | | 8-15 % | | MODERATE | | WELL DRAINED |
| HOWARD GRAVELLY LOAM | 24A | 6 - 6 | > 5 | MOD. TO RAPID | 0.6 - 6.0, > 20 | (0" -35") 10 - 100 (35" - 60") < 3 | 0-3% | MODERATE | WELL DRAINED | | | |
| | 24B | | | MOD. TO RAPID | | | 3-8% | MODERATE | | | | |
| | 24C | | | MOD. TO RAPID | | | 8-15% | MODERATE | | | | |
| MINOA FINE SANDY LOAM | 750B | 0.5 - 1.5 | > 5 | MOD. | 0.6 - 2.0 | 30 -100 | 0-6 % | HIGH | SOMEWHAT POORLY DRAINED | | | |
| 13 | HOWARD GRAVELLY LOAM | 24B | 6 - 6 | > 5 | MOD. TO RAPID | 0.6 - 6.0, > 20 | (0" -35") 10 - 100 (35" - 60") < 3 | 3-8% | FREQ. FLOODED | MODERATE | WELL DRAINED | |
| | MINOA FINE SANDY LOAM | 750B | 0.5 - 1.5 | > 5 | MOD. | 0.6 - 2.0 | 30 -100 | 0-6 % | | HIGH | SOMEWHAT POORLY DRAINED | |
| | ARKPORT FINE SANDY LOAM | 78B | > 3, > 6 | > 6 | MOD. RAPID | 2.0 - 6.0 | (0" - 68") 10 - 30 | 3-8 % | | MODERATE | WELL DRAINED | |
| | ARKPORT FINE SANDY LOAM | 78C | > 3, > 6 | > 6 | MOD. RAPID | 2.0 - 6.0 | (0" - 68") 10 - 30 | 8-15 % | | MODERATE | WELL DRAINED | |
| | UDIFLUVENTS-FLUVAQUENTS | 1 | 2 - 6 | > 5 | NO. INFO | 0.2 - 2.0, < 2.0 | 30 - 300, > 30 | NO INFO. | | MODERATE | HYDRIC; WELL DRAINED/POOR DRAINE | |
| | PALMS MUCK | 395 | 0 - 1 | > 5 | MOD. | 0.6 - 6.0, 0.2 - 2.0 | (0" - 30")10 - 100 (30" - 60") 30 - 300 | NO INFO. | | HIGH | HYDRIC; VERY POORLY DRAINED | |
| HOWARD AND ALTON SOILS | 34E | 6 - 6 | > 5 | MOD. TO RAPID | > 6.0 (Al), 0.6 - 20 (Hw) | < 10 (Al), 3 - 100 (Hw) | 25-45% | | MODERATE | WELL DRAINED | | |

**ONEIDA CREEK WATER QUALITY IMPROVEMENT TASK FORCE
SEWER SYSTEM EVALUATIONS**

TABLE 1

SOILS CLASSIFICATION FOR SUB-AREAS 6A, 6B, 7, 8, 12, AND 13

Sources: USDA, SCS, "Soil Survey of Madison County" and USDA, SCS, "Soil Survey of Oneida County"

| AREA | SOIL NAME | SYMBOL | DEPTH TO W.T. | DEPTH TO ROCK (in.) | | PERMEABILITY | | SLOPE | SEASONAL FLOODING | FROST ACTION | OTHER COMMENTS | |
|------|------------|---------------|---------------|---------------------|---------------|--------------------------|--|----------|-------------------|-------------------|-------------------|-------------------|
| | | | | | | (in./hr) | (min/in) | | | | | |
| 11 | PHELPS | PpA, PpB | 1 -2 | > 3.5 | MOD. TO RAPID | 0.6 - 2.0 | 30 - 100 | 3 - 8% | | HIGH | MOD. WELL DRAINED | |
| | NIAGARA | NgA | 0.5 - 1 | > 3.5 | | 0.6 - 2.0 | 30 - 100 | 0 - 3% | | HIGH | S. POORLY DRAINED | |
| | HALSLEY | Ha | 0.0 - 0.5 | > 6 | | > 6.0 | < 10 | NO INFO. | | HIGH | V. POORLY DRAINED | |
| | FREDON | Fr | 0.5 - 1 | > 6 | | 0.6 - 6.0 | 10 - 100 | NO INFO. | | HIGH | S. POORLY DRAINED | |
| | WAMPSVILLE | WeA, WeB, WeC | 5 - 6 | > 8 | | 0.6 - 20 | 3 - 100 | NO INFO. | | LOW | WELL DRAINED | |
| | PALMYRA | PgA | > 3 | > 3.5 | | 0.6 - 2.0, > 20.0 | (0" - 33") 30 - 100 (33" - 60") < 3 | 0 - 3% | | LOW | WELL DRAINED | |
| | HOWARD | HwB | > 3 | > 4 | | 0.6 - 2.0, - 6.0, > 20 | (0" - 8") 30 -100 (8" - 35") 10 - 100 (35" - 60") < 3 | > 3% | | LOW | WELL DRAINED | |
| | COLLAMER | CkA, CkD | 1.5 - 2 | > 5 | | 0.6 - 2.0, 0.2 - 0.6 | (0" - 16") 30 -100 (16" - 60") 100 - 300 | 0 - 3% | | HIGH | MOD. WELL DRAINED | |
| | ARKPORT | ArD | > 3 | > 6 | | 0.6 - 6.0 | 10 - 100 | > 15% | | LOW | WELL DRAINED | |
| | ARKPORT | ArB | > 3 | > 6 | | 0.6 - 6.0 | 10 - 100 | 3 - 8% | | LOW | WELL DRAINED | |
| | CAZENOVIA | CfC, CfC3 | > 1.5 | > 3.5 | | 0.6-2.0,0.2-0.6,0.06-0.2 | (0" -11") 30 -100 (11" - 29") 100 - 300 (29" 52") 300 - 1000 | 8 - 15% | | MODERATE | WELL DRAINED | |
| | WAYLAND | Wn | 0 - 0.5 | > 3.5 | | 0.6 - 2.0, 0.06 - 0.2 | (< 9") 30 -100 (9" - 61") 300 - 1000 | | | SUBJ. TO FLOODING | HIGH | POORLY DRAINED |
| | LIMA | LtB | 1 - 2 | > 3.5 | | 0.6 - 2.0, < 0.2 | (0" - 23") 30 - 100 (23" - 60") > 300 | 3 - 8% | | | MODERATE | MOD. WELL DRAINED |

ABBREVIATIONS

- W.T. = WATER TABLE
- MOD. = MODERATE
- INFO. = INFORMATION
- UDIFLUENTS-FLUVAQUENTS = UDIFLUENTS-FLUVAQUENTS COMPLEX
- APPAR. = APPARENT

**ONEIDA CREEK WATER QUALITY IMPROVEMENT TASK FORCE
SEWER SYSTEM EVALUATIONS**

BAG C.1 (Areas 6A, 12 and 13)

| NO. | ITEM | QUAN. | UNIT | UNIT PRICE | TOTAL |
|--------------------|---|-------|------|------------|----------------------|
| Sub-area 6A | | | | | |
| A. | GRAVITY SEWER SYSTEMS (trenching included, restoration not included) | | | | |
| 1 | 6" Laterals (including trenching)* avg length 25' | 1300 | LF | \$25 | \$ 32,500.00 |
| 2 | 8" Mainline Collection | 5300 | LF | \$45 | \$ 238,500.00 |
| B. | MANHOLES | 18 | EA | \$3,500 | \$ 63,000.00 |
| C. | CASED CROSSINGS (includes carrier and casing pipe, assume 35' crossings) | | | | |
| 1 | 24" Crossing of State St. | 35 | L.F. | \$350 | \$ 12,250.00 |
| 2 | 24" Crossing of NYS Rte 365 | 35 | L.F. | \$350 | \$ 12,250.00 |
| D. | ABANDON SEPTIC TANKS (Assumes tanks can be abandoned in place) | 49 | EA | \$500 | \$ 24,500.00 |
| E. | SITE PREPARATION | L.S. | L.S. | L.S. | \$ 10,000.00 |
| F. | SITE RESTORATION | | | | |
| 1 | Pavement (1/2 total pipe length) | 800 | L.F. | \$22 | \$ 17,600.00 |
| 2 | Grass (Remaining pipe length X 10' wide) | 5800 | L.F. | \$6 | \$ 34,800.00 |
| | SUBTOTAL | | | | \$ 445,400.00 |
| Sub-area 12 | | | | | |
| A. | GRAVITY SEWER SYSTEMS (trenching included, restoration not included) | | | | |
| 1 | 6" Laterals (including trenching)* avg length 25' | 5500 | LF | \$25 | \$ 137,500.00 |
| 2 | 8" Mainline Collection | 22000 | LF | \$45 | \$ 990,000.00 |
| 3 | 10" Mainline Collection | 1000 | LF | \$50 | \$ 50,000.00 |
| B. | MANHOLES | 70 | EA | \$3,500 | \$ 245,000.00 |
| C. | PUMPING STATIONS (submersible grinder type) | | | | |
| 1 | PS #1 - 6' DIA. WET WELL, 13' DEEP, 15 HP PUMPS | L.S. | L.S. | L.S. | \$ 115,000 |
| D. | PUMPING STATIONS (submersible grinder type) | | | | |
| 1 | PS #2 - 4' DIA. WET WELL, 19' DEEP, 3 HP PUMPS | L.S. | L.S. | L.S. | \$ 50,000 |
| E. | SANITARY FORCE MAINS (Main Pumping Systems) (trenching included, restoration not included) | | | | |
| 1 | 3.0" Force Main (PS # 2) | 1200 | LF | \$22 | \$ 26,400 |
| 2 | 6.0" Force Main (PS # 1) | 1300 | LF | \$25 | \$ 32,500 |
| F. | CASED CROSSINGS (includes carrier and casing pipe, assume 35' crossings) | | | | |
| 1 | 12" Crossing of abandoned rail bed | 50 | L.F. | \$225 | \$ 11,250.00 |
| 2 | 24" Crossing of State St. - 2ea. | 35 | L.F. | \$350 | \$ 12,250.00 |
| 3 | 24" Crossing of State Rte 5 | 35 | L.F. | \$350 | \$ 12,250.00 |
| G. | CREEK CROSSINGS | | | | |
| 1 | Pipe crossing | 75 | L.F. | \$300 | \$ 22,500.00 |
| 2 | Inlet and outlet structures | 2 | EA | \$5,000 | \$ 10,000.00 |
| H. | GRINDER PUMPING UNITS | | | | |
| 1 | Simplex units | 4 | EA | \$5,000 | \$ 20,000.00 |
| 2 | Duplex units | 1 | EA | \$10,000 | \$ 10,000.00 |
| I. | PRESSURE SERVICE MAINS (Grinder Systems) (trenching included, restoration not included) | | | | |
| 1 | 1.5" Pressure Service Main Laterals | 125 | LF | \$16 | \$ 2,000.00 |
| 2 | 1.5" to 2.5" Pressure Service Mains | 1550 | LF | \$18 | \$ 27,900.00 |
| 3 | PSM Shutoff Valves w/ Valve Box | 5 | EA | \$350 | \$ 1,750.00 |
| 4 | PSM Flushing Connections in Manhole (one every 1000') | 1 | EA | \$2,500 | \$ 2,500.00 |
| J. | ABANDON SEPTIC TANKS (Assumes tanks can be abandoned in place) | 219 | EA | \$500 | \$ 109,500.00 |

**ONEIDA CREEK WATER QUALITY IMPROVEMENT TASK FORCE
SEWER SYSTEM EVALUATIONS**

BAG C.1 (Areas 6A, 12 and 13)

| NO. | ITEM | QUAN. | UNIT | UNIT PRICE | TOTAL |
|-----|---|-------|------|-----------------|------------------------|
| K. | SITE PREPARATION | L.S. | L.S. | L.S. | \$ 25,000.00 |
| L. | SITE RESTORATION | | | | |
| 1 | Pavement (1/2 total pipe length) | 12000 | L.F. | \$22 | \$ 264,000.00 |
| 2 | Grass (Remaining pipe length 8 10' wide) | 15050 | S.Y. | \$6 | \$ 90,300.00 |
| | SUBTOTAL | | | | \$ 2,267,600.00 |
| | Sub-area 13 | | | | |
| A. | GRAVITY SEWER SYSTEMS (trenching included, restoration not included) | | | | |
| 1 | 6" Laterals (including trenching)* avg length 25' | 700 | LF | \$25 | \$ 17,500 |
| 2 | 8" Mainline Collection | 6100 | LF | \$45 | \$ 274,500 |
| B. | MANHOLES | 20 | EA | \$3,500 | \$ 70,000 |
| C. | PUMPING STATIONS (submersible grinder type) | | | | |
| 1 | PS #3 - 4' DIA. WET WELL, 15' DEEP, 3 HP PUMPS | L.S. | L.S. | L.S. | \$ 50,000 |
| D. | SANITARY FORCE MAINS (Main Pumping Systems) (trenching included, restoration not included) | | | | |
| 1 | 4.0" Force Main | 1200 | LF | \$25 | \$ 30,000 |
| E. | ABANDON SEPTIC TANKS (Assumes tanks can be abandoned in place) | 27 | EA | \$500 | \$ 13,500 |
| F. | SITE PREPARATION | L.S. | L.S. | L.S. | \$ 10,000 |
| G. | SITE RESTORATION | | | | |
| 1 | Pavement (1/2 total pipe length) | 100 | L.F. | \$22 | \$ 2,200 |
| 2 | Grass (Remaining pipe length 8 10' wide) | 6700 | L.F. | \$6 | \$ 40,200 |
| H. | TRAFFIC CONTROL | L.S. | L.S. | L.S. | \$ 5,000 |
| I. | UTILITY RELOCATIONS | L.S. | L.S. | L.S. | \$ 5,000 |
| | SUBTOTAL | | | | \$ 517,900 |
| | OPTION SUBTOTAL | | | | \$ 3,230,900 |
| | TRAFFIC CONTROL, UTILITY RELOCATIONS, AND MOBILIZATION AT 10% | | | | \$ 323,090 |
| | SUBTOTAL | | | | \$ 3,553,990 |
| | CONTINGENCIES AT 25% | | | | \$ 888,498 |
| | SUBTOTAL | | | | \$ 4,442,488 |
| | ENGINEERING, LEGAL, AND MISCELLANEOUS AT 25% | | | | \$ 1,110,622 |
| | TOTAL ESTIMATED PROJECT COST | | | | \$ 5,553,109 |
| | | | | ROUND TO | \$ 5,555,000 |

**ONEIDA CREEK WATER QUALITY IMPROVEMENT TASK FORCE
SEWER SYSTEM EVALUATIONS**

BAG C.1.a (Areas 6A, 12 and 13)

| NO. | ITEM | QUAN. | UNIT | UNIT PRICE | TOTAL |
|-----|---|-------|------|------------|-------------------|
| | Sub-area 6A | | | | |
| A. | GRAVITY SEWER SYSTEMS (trenching included, restoration not included) | | | | |
| 1 | 6" Laterals (including trenching)* avg length 25' | 1300 | LF | \$25 | \$ 32,500 |
| 2 | 8" Mainline Collection | 5300 | LF | \$45 | \$ 238,500 |
| B. | MANHOLES | 18 | EA | \$3,500 | \$ 63,000 |
| C. | CASED CROSSINGS (includes carrier and casing pipe, assume 35' crossings) | | | | |
| 1 | 24" Crossing of State St. | 35 | L.F. | \$350 | \$ 12,250 |
| 2 | 24" Crossing of State St. | 35 | L.F. | \$350 | \$ 12,250 |
| D. | ABANDON SEPTIC TANKS (Assumes tanks can be abandoned in place) | 49 | EA | \$500 | \$ 24,500 |
| E. | SITE PREPARATION | L.S. | L.S. | L.S. | \$ 10,000 |
| F. | SITE RESTORATION | | | | |
| 1 | Pavement (1/2 total pipe length) | 800 | L.F. | \$22 | \$ 17,600 |
| 2 | Grass (Remaining pipe length 8 10' wide) | 5800 | L.F. | \$6 | \$ 34,800 |
| | SUBTOTAL | | | | \$ 445,400 |
| | Sub-area 12 | | | | |
| A. | GRAVITY SEWER SYSTEMS (trenching included, restoration not included) | | | | |
| 1 | 6" Laterals (including trenching)* avg length 25' | 5500 | LF | \$25 | \$ 137,500.00 |
| 2 | 8" Mainline Collection | 18000 | LF | \$45 | \$ 810,000.00 |
| 3 | 10" Mainline Collection | 1000 | LF | \$50 | \$ 50,000.00 |
| B. | MANHOLES | 60 | EA | \$3,500 | \$ 210,000.00 |
| C. | PUMPING STATIONS (submersible grinder type) | | | | |
| 1 | PS #1 - 6' DIA. WET WELL, 13' DEEP, 15 HP PUMPS | L.S. | L.S. | L.S. | \$ 115,000 |
| D. | SANITARY FORCE MAINS (Main Pumping Systems) (trenching included, restoration not included) | | | | |
| 1 | 6.0" Force Main | 1300 | LF | \$25 | \$ 32,500 |
| E. | CASED CROSSINGS (includes carrier and casing pipe, assume 35' crossings) | | | | |
| 1 | 12" Crossing of abandoned rail bed | 50 | L.F. | \$225 | \$ 11,250.00 |
| 2 | 24" Crossing of State St. | 35 | L.F. | \$350 | \$ 12,250.00 |
| 3 | 24" Crossing of State Rte 5 | 35 | L.F. | \$350 | \$ 12,250.00 |
| F. | CREEK CROSSINGS | | | | |
| 1 | Pipe crossing | 75 | L.F. | \$300 | \$ 22,500.00 |
| 2 | Inlet and outlet structures | 2 | EA. | \$5,000 | \$ 10,000 |
| G. | GRINDER PUMPING UNITS | | | | |
| 1 | Simplex units | 10 | EA | \$5,000 | \$ 50,000 |
| 2 | Duplex units | 23 | EA | \$10,000 | \$ 230,000 |
| H. | PRESSURE SERVICE MAINS (Grinder Systems) (trenching included, restoration not included) | | | | |
| | 1.5" Pressure Service Main Laterals | 825 | LF | \$16 | \$ 13,200 |
| | 1.5" to 2.5" Pressure Service Mains | 7250 | LF | \$18 | \$ 130,500 |
| | PSM Shutoff Valves w/ Valve Box | 33 | EA | \$350 | \$ 11,550 |
| | PSM Flushing Connections in Manhole (one every 1000') | 7 | EA | \$2,500 | \$ 17,500 |

**ONEIDA CREEK WATER QUALITY IMPROVEMENT TASK FORCE
SEWER SYSTEM EVALUATIONS**

BAG C.1.a (Areas 6A, 12 and 13)

| NO. | ITEM | QUAN. | UNIT | UNIT PRICE | TOTAL |
|-----|---|-------|------|-----------------|---------------------|
| I. | ABANDON SEPTIC TANKS (Assumes tanks can be abandoned in place) | 219 | EA | \$500 | \$ 109,500 |
| J. | SITE PREPARATION | L.S. | L.S. | L.S. | \$ 25,000 |
| K. | SITE RESTORATION | | | | |
| 1 | Pavement (1/2 total pipe length) | 12000 | L.F. | \$22 | \$ 264,000 |
| 2 | Grass (Remaining pipe length 8 10' wide) | 15550 | S.Y. | \$6 | \$ 93,300 |
| | SUBTOTAL | | | | \$ 2,367,800 |
| | Sub-area 13 | | | | |
| A. | GRAVITY SEWER SYSTEMS (trenching included, restoration not included) | | | | |
| 1 | 6" Laterals (including trenching)* avg length 25' | 700 | LF | \$25 | \$ 17,500 |
| 2 | 8" Mainline Collection | 3350 | LF | \$45 | \$ 150,750 |
| B. | MANHOLES | 10 | EA | \$3,500 | \$ 35,000 |
| C. | PUMPING STATIONS (submersible grinder type) | | | | |
| 1 | PS #3 - 4' DIA. WET WELL, 15' DEEP, 3 HP PUMPS | L.S. | L.S. | L.S. | \$ 50,000 |
| D. | SANITARY FORCE MAINS (Main Pumping Systems) (trenching included, restoration not included) | | | | |
| 1 | 4.0" Force Main | 1200 | LF | \$25 | \$ 30,000 |
| E. | GRINDER PUMPING UNITS | | | | |
| 1 | Simplex units | 6 | EA | \$5,000 | \$ 30,000 |
| 2 | Duplex units | 3 | EA | \$10,000 | \$ 30,000 |
| F. | PRESSURE SERVICE MAINS (Grinder Systems) (trenching included, restoration not included) | | | | |
| | 1.5" Pressure Service Main Laterals | 225 | LF | \$16 | \$ 3,600 |
| | 1.5" to 2.5" Pressure Service Mains | 1800 | LF | \$18 | \$ 32,400 |
| | PSM Shutoff Valves w/ Valve Box | 9 | EA | \$350 | \$ 3,150 |
| | PSM Flushing Connections in Manhole (one every 1000') | 7 | EA | \$2,500 | \$ 17,500 |
| G. | ABANDON SEPTIC TANKS (Assumes tanks can be abandoned in place) | 27 | EA | \$500 | \$ 13,500 |
| H. | SITE PREPARATION | L.S. | L.S. | L.S. | \$ 10,000 |
| I. | SITE RESTORATION | | | | |
| 1 | Pavement (1/2 total pipe length) | 500 | L.F. | \$22 | \$ 11,000 |
| 2 | Grass (Remaining pipe length 8 10' wide) | 5575 | L.F. | \$6 | \$ 33,450 |
| | SUBTOTAL | | | | \$ 467,850 |
| | OPTION SUBTOTAL | | | | \$ 3,281,050 |
| | TRAFFIC CONTROL, UTILITY RELOCATIONS, AND MOBILIZATION AT 10% | | | | \$ 328,105 |
| | SUBTOTAL | | | | \$ 3,609,155 |
| | CONTINGENCIES AT 25% | | | | \$ 902,289 |
| | SUBTOTAL | | | | \$ 4,511,444 |
| | ENGINEERING, LEGAL, AND MISCELLANEOUS AT 25% | | | | \$ 1,127,861 |
| | TOTAL ESTIMATED PROJECT COST | | | | \$ 5,639,305 |
| | | | | ROUND TO | \$ 5,640,000 |

**ONEIDA CREEK WATER QUALITY IMPROVEMENT TASK FORCE
SEWER SYSTEM EVALUATIONS**

BAG C.2 (Area 6B)

| NO. | ITEM | QUAN. | UNIT | UNIT PRICE | TOTAL |
|-----|---|-------|------|-----------------|-------------------|
| A. | GRAVITY SEWER SYSTEMS (trenching included, restoration not included) | | | | |
| 1 | 6" Laterals (including trenching)* avg length 25' | 1500 | LF | \$25 | \$ 37,500 |
| 2 | 8" Mainline Collection | 5200 | LF | \$45 | \$ 234,000 |
| B. | MANHOLES | 16 | EA | \$3,500 | \$ 56,000 |
| C. | PUMPING STATIONS (submersible solids handling type) | | | | |
| 1 | PS# 4 - 4' Dia. wet well, 18' deep, 2hp pumps | L.S. | L.S. | L.S. | \$ 50,000 |
| D. | SANITARY FORCE MAINS (Main Pumping Systems) (trenching included, restoration not included) | | | | |
| 1 | 3.0" Force Main | 1000 | LF | \$22 | \$ 22,000 |
| E. | CASED CROSSINGS (includes carrier and casing pipe) | | | | |
| 1 | 24" Crossing of NYS Rte 365 | 35 | L.F. | \$350 | \$ 12,250 |
| F. | CREEK CROSSING | 75 | L.F. | \$300 | \$ 22,500 |
| G. | ABANDON SEPTIC TANKS (Assumes tanks can be abandoned in place) | 52 | EA | \$500 | \$ 26,000 |
| H. | SITE PREPARATION | L.S. | L.S. | L.S. | \$ 10,000 |
| I. | SITE RESTORATION | | | | |
| 1 | Pavement (all 8" grav. Piping) | 2200 | L.F. | \$22 | \$ 48,400 |
| 2 | Grass (Remaining pipe length 8 10' wide) | 5000 | S.Y. | \$6 | \$ 30,000 |
| | OPTION SUBTOTAL | | | | \$ 548,650 |
| | TRAFFIC CONTROL, UTILITY RELOCATIONS, AND MOBILIZATION AT 10% | | | | \$ 54,865 |
| | SUBTOTAL | | | | \$ 603,515 |
| | CONTINGENCIES AT 25% | | | | \$ 150,879 |
| | SUBTOTAL | | | | \$ 754,394 |
| | ENGINEERING, LEGAL, AND MISCELLANEOUS AT 25% | | | | \$ 188,598 |
| | TOTAL ESTIMATED PROJECT COST | | | | \$ 942,992 |
| | | | | ROUND TO | \$ 945,000 |

**ONEIDA CREEK WATER QUALITY IMPROVEMENT TASK FORCE
SEWER SYSTEM EVALUATIONS**

BAG C.3 (Areas 7 and 8)

| NO. | ITEM | QUAN. | UNIT | UNIT PRICE | TOTAL |
|-------------------|---|-------|------|------------|-------------------|
| Sub-area 7 | | | | | |
| A. | GRAVITY SEWER SYSTEMS (trenching included, restoration not included) | | | | |
| 1 | 6" Laterals (including trenching)* avg length 25' | 1000 | LF | \$25 | \$ 25,000 |
| 2 | 8" Mainline Collection | 5350 | LF | \$45 | \$ 240,750 |
| B. | MANHOLES | 14 | EA | \$3,500 | \$ 49,000 |
| C. | CASED CROSSINGS (includes carrier and casing pipe) | | | | |
| 1 | 24" Crossing of State Rte 365 - 2 ea. | 70 | L.F. | \$350 | \$ 24,500 |
| D. | SIPHON CROSSINGS | | | | |
| 1 | Pipe crossing | 200 | L.F. | \$300 | \$ 60,000 |
| 2 | Inlet and outlet structures | 4 | EA. | \$5,000 | \$ 20,000 |
| E. | ABANDON SEPTIC TANKS (Assumes tanks can be abandoned in place) | 38 | EA | \$500 | \$ 19,000 |
| F. | SITE PREPARATION | L.S. | L.S. | L.S. | \$ 10,000 |
| G. | SITE RESTORATION | | | | |
| 1 | Pavement | 750 | L.F. | \$22 | \$ 16,500 |
| 2 | Grass (Remaining pipe length 10' wide) | 5600 | L.F. | \$6 | \$ 33,600 |
| | SUBTOTAL | | | | \$ 498,350 |
| Sub-area 8 | | | | | |
| A. | GRAVITY SEWER SYSTEMS (trenching included, restoration not included) | | | | |
| 1 | 6" Laterals (including trenching)* avg length 25' | 800 | LF | \$25 | \$ 20,000 |
| 2 | 8" Mainline Collection | 6150 | LF | \$45 | \$ 276,750 |
| B. | Manholes | 20 | EA | \$3,500 | \$ 70,000 |
| C. | PUMPING STATIONS (submersible grinder type) | | | | |
| 1 | PS #5 - 4' DIA. WET WELL, 19' DEEP, 2 HP PUMPS | L.S. | L.S. | L.S. | \$ 45,000 |
| 2 | PS #6 - 4' DIA. WET WELL, 15' DEEP, 5 HP PUMPS | L.S. | L.S. | L.S. | \$ 50,000 |
| D. | SANITARY FORCE MAINS (Main Pumping Systems) (trenching included, restoration not included) | | | | |
| 1 | 2.0" Force Main (PS #5) | 1700 | LF | \$18 | \$ 30,600 |
| 2 | 3.0" Force Main (PS #6) | 1400 | LF | \$22 | \$ 30,800 |
| E. | SIPHON CROSSINGS | | | | |
| 1 | Pipe crossing | 50 | L.F. | \$300 | \$ 15,000 |
| 2 | Inlet and outlet structures | 2 | EA. | \$5,000 | \$ 10,000 |
| F. | ABANDON SEPTIC TANKS (Assumes tanks can be abandoned in place) | 30 | EA | \$500 | \$ 15,000 |
| G. | SITE PREPARATION | L.S. | L.S. | L.S. | \$ 20,000 |

**ONEIDA CREEK WATER QUALITY IMPROVEMENT TASK FORCE
SEWER SYSTEM EVALUATIONS**

BAG C.3 (Areas 7 and 8)

| NO. | ITEM | QUAN. | UNIT | UNIT PRICE | TOTAL |
|-----|---|-------|------|-----------------|---------------------|
| H. | SITE RESTORATION | | | | |
| | 1 Pavement | 6150 | L.F. | \$22 | \$ 135,300 |
| | 2 Grass (Remaing pipe length 10' wide) | 800 | L.F. | \$6 | \$ 4,800 |
| | SUBTOTAL | | | | \$ 723,250 |
| | OPTION SUBTOTAL | | | | \$ 1,221,600 |
| | TRAFFIC CONTROL, UTILITY RELOCATIONS, AND MOBILIZATION AT 10% | | | | \$ 122,160 |
| | SUBTOTAL | | | | \$ 1,343,760 |
| | CONTINGENCIES AT 25% | | | | \$ 335,940 |
| | SUBTOTAL | | | | \$ 1,679,700 |
| | ENGINEERING, LEGAL, AND MISCELLANEOUS AT 25% | | | | \$ 419,925 |
| | TOTAL ESTIMATED PROJECT COST | | | | \$ 2,099,625 |
| | | | | ROUND TO | \$ 2,100,000 |

**ONEIDA CREEK WATER QUALITY IMPROVEMENT TASK FORCE
SEWER SYSTEM EVALUATIONS**

BAG C.3.a (Areas 7 and 8)

| NO. | ITEM | QUAN. | UNIT | UNIT PRICE | TOTAL |
|-----|--|-------|------|------------|-------------------|
| | Sub-area 7 | | | | |
| A. | GRAVITY SEWER SYSTEMS (trenching included, restoration not included) | | | | |
| | 1 6" Laterals (including trenching)* avg length 25' | 1000 | LF | \$25 | \$ 25,000 |
| | 2 8" Mainline Collection | 5350 | LF | \$45 | \$ 240,750 |
| B. | MANHOLES | 14 | EA | \$3,500 | \$ 49,000 |
| C. | CASED CROSSINGS (includes carrier and casing pipe) | | | | |
| | 1 24" Crossing of State Rte 365 - 2 ea. | 70 | L.F. | \$350 | \$ 24,500 |
| D. | SIPHON CROSSINGS | | | | |
| | 1 Pipe crossing | 200 | L.F. | \$300 | \$ 60,000 |
| | 2 Inlet and outlet structures | 4 | EA. | \$5,000 | \$ 20,000 |
| E. | ABANDON SEPTIC TANKS (Assumes tanks can be abandoned in place) | 38 | EA | \$500 | \$ 19,000 |
| F. | SITE PREPARATION | L.S. | L.S. | L.S. | \$ 10,000 |
| G. | SITE RESTORATION | | | | |
| | 1 Pavement | 750 | L.F. | \$22 | \$ 16,500 |
| | 2 Grass (Remaining pipe length 10' wide) | 5600 | L.F. | \$6 | \$ 33,600 |
| | SUBTOTAL | | | | \$ 498,350 |
| | Sub-area 8 | | | | |
| A. | GRAVITY SEWER SYSTEMS (trenching included, restoration not included) | | | | |
| | 1 6" Laterals (including trenching)* avg length 25' | 125 | LF | \$25 | \$ 3,125 |
| | 2 8" Mainline Collection | 2000 | LF | \$45 | \$ 90,000 |
| B. | Manholes | 5 | EA | \$3,500 | \$ 17,500 |
| C. | GRINDER PUMPING UNITS | | | | |
| | 1 Simplex units | 7 | EA | \$5,000 | \$ 35,000 |
| | 2 Duplex units | 8 | EA | \$10,000 | \$ 80,000 |
| D. | PRESSURE SERVICE MAINS (Grinder Systems) (trenching included, restoration not included) | | | | |
| | 1 1.5" Pressure Service Main Laterals | 600 | LF | \$18 | \$ 10,800 |
| | 2 1.5" to 2.5" Pressure Service Mains | 2100 | LF | \$18 | \$ 37,800 |
| | 3 3.0" Pressure Service Mains | 2400 | LF | \$22 | \$ 52,800 |
| | 4 PSM Shutoff Valves w/ Valve Box | 15 | EA | \$350 | \$ 5,250 |
| | 5 PSM Flushing Connections in Manhole (one every 1000') | 4 | EA | \$2,500 | \$ - |
| E. | SIPHON CROSSINGS | | | | |
| | 1 Pipe crossing | 50 | L.F. | \$300 | \$ 15,000 |
| | 2 Inlet and outlet structures | 2 | EA. | \$5,000 | \$ 10,000 |
| F. | ABANDON SEPTIC TANKS (Assumes tanks can be abandoned in place) | 30 | EA | \$500 | \$ 15,000 |
| G. | SITE PREPARATION | L.S. | L.S. | L.S. | \$ 20,000 |

**ONEIDA CREEK WATER QUALITY IMPROVEMENT TASK FORCE
SEWER SYSTEM EVALUATIONS**

BAG C.3.a (Areas 7 and 8)

| NO. | ITEM | QUAN. | UNIT | UNIT PRICE | TOTAL |
|-----|---|-------|------|-----------------|---------------------|
| H. | SITE RESTORATION | | | | |
| 1 | Pavement | 2000 | L.F. | \$22 | \$ 44,000 |
| 2 | Grass (Remaing pipe length 10' wide) | 4625 | L.F. | \$6 | \$ 27,750 |
| | SUBTOTAL | | | | \$ 464,025 |
| | OPTION SUBTOTAL | | | | \$ 962,375 |
| | TRAFFIC CONTROL, UTILITY RELOCATIONS, MOBILIZATION AT 10% | | | | \$ 96,238 |
| | SUBTOTAL | | | | \$ 1,058,613 |
| | CONTINGENCIES AT 25% | | | | \$ 264,653 |
| | SUBTOTAL | | | | \$ 1,323,266 |
| | ENGINEERING, LEGAL, AND MISCELLANEOUS AT 25% | | | | \$ 330,816 |
| | TOTAL ESTIMATED PROJECT COST | | | | \$ 1,654,082 |
| | | | | ROUND TO | \$ 1,675,000 |

**ONEIDA CREEK WATER QUALITY IMPROVEMENT TASK FORCE
SEWER SYSTEM EVALUATION**

BAG C.4 (All of Area 11)

| NO. | ITEM | QUAN. | UNIT | UNIT PRICE | TOTAL |
|-----|---|-------|------|-----------------|---------------------|
| A. | GRAVITY SEWER SYSTEMS (trenching included, restoration not included) | | | | |
| 1 | 6" Laterals (including trenching)* avg length 25' | 4850 | LF | \$25 | \$ 121,250 |
| 2 | 8" Mainline Collection | 20050 | LF | \$45 | \$ 902,250 |
| B. | MANHOLES | 55 | EA | \$3,500 | \$ 192,500 |
| C. | PUMPING STATION (submersible solids handling type) | | | | |
| 1 | PS #9 - 6' DIA. WET WELL, 17' DEEP, 20 HP PUMPS | L.S. | L.S. | L.S. | \$ 125,000 |
| D. | SANITARY FORCE MAINS (Main Pumping Systems) (trenching included, restoration not included) | | | | |
| 1 | 6.0" Force Main | 12000 | LF | \$35 | \$ 420,000 |
| E. | CASED CROSSINGS (includes carrier and casing pipe) | | | | |
| 1 | 24" Crossing in the Village at 35' ea. X 3 | 105 | L.F. | \$350 | \$ 36,750 |
| 2 | 24" Crossing of NYS Rte 5 at 35' ea. X 3 | 105 | L.F. | \$350 | \$ 36,750 |
| F. | GRINDER PUMPING UNITS | | | | |
| 1 | Simplex units | 13 | EA | \$5,000 | \$ 65,000 |
| 2 | Duplex units | 2 | EA | \$10,000 | \$ 20,000 |
| G. | PRESSURE SERVICE MAINS (Grinder Systems) (trenching included, restoration not included) | | | | |
| 1 | 1.5" Pressure Service Main Laterals | 400 | LF | \$16 | \$ 6,400 |
| 2 | 1.5" to 2.5" Pressure Service Mains | 6950 | LF | \$18 | \$ 125,100 |
| 3 | PSM Shutoff Valves w/ Valve Box | 15 | EA | \$350 | \$ 5,250 |
| 4 | PSM Flushing Connections in Manhole (one every 1000') | 6 | EA | \$2,500 | \$ 15,000 |
| H. | ABANDON SEPTIC TANKS (Assumes tanks can be abandoned in place) | | | | |
| 1 | houses | 198 | EA | \$500 | \$ 99,000 |
| 2 | Municipal and Private Institutions, and Commercial | L.S. | L.S. | L.S. | \$ 5,000 |
| I. | SITE PREPARATION | L.S. | L.S. | L.S. | \$ 50,000 |
| J. | SITE RESTORATION | | | | |
| 1 | Pavement | 2000 | L.F. | \$22 | \$ 44,000 |
| 2 | Grass (Remaining pipe length 10' wide) | 42250 | L.F. | \$6 | \$ 253,500 |
| | OPTION SUBTOTAL | | | | \$ 2,522,750 |
| | TRAFFIC CONTROL, UTILITY RELOCATIONS, AND MOBILIZATION AT 10% | | | | \$ 252,275 |
| | SUBTOTAL | | | | \$ 2,775,025 |
| | CONTINGENCIES AT 25% | | | | \$ 693,756 |
| | SUBTOTAL | | | | \$ 3,468,781 |
| | ENGINEERING, LEGAL, AND MISCELLANEOUS AT 25% | | | | \$ 867,195 |
| | TOTAL ESTIMATED PROJECT COST | | | | \$ 4,335,977 |
| | | | | ROUND TO | \$ 4,335,000 |

**ONEIDA CREEK WATER QUALITY IMPROVEMENT TASK FORCE
SEWER SYSTEM EVALUATION**

BAG C.4.a (Portion of Area 11)

| NO. | ITEM | QUAN. | UNIT | UNIT PRICE | TOTAL |
|-----|---|-------|------|------------|---------------------|
| A. | GRAVITY SEWER SYSTEMS (trenching included, restoration not included) | | | | |
| 1 | 6" Laterals (including trenching)* avg length 25' | 4850 | LF | \$25 | \$ 121,250 |
| 2 | 8" Mainline Collection | 13550 | LF | \$45 | \$ 609,750 |
| B. | MANHOLES | 35 | EA | \$3,500 | \$ 122,500 |
| C. | PUMPING STATION (submersible solids handling type) | | | | |
| 1 | PS #9 - 6' DIA. WET WELL, 17' DEEP, 20 HP PUMPS | L.S. | L.S. | L.S. | \$ 125,000 |
| D. | SANITARY FORCE MAINS (Main Pumping Systems) (trenching included, restoration not included) | | | | |
| 1 | 6.0" Force Main | 12000 | LF | \$35 | \$ 420,000 |
| E. | CASED CROSSINGS (includes carrier and casing pipe) | | | | |
| 1 | 24" Crossing in the Village at 35' ea. X 3 | 105 | L.F. | \$350 | \$ 36,750 |
| F. | GRINDER PUMPING UNITS | | | | |
| 1 | Simplex units | 4 | EA | \$5,000 | \$ 20,000 |
| G. | PRESSURE SERVICE MAINS (Grinder Systems) (trenching included, restoration not included) | | | | |
| 1 | 1.5" Pressure Service Main Laterals | 400 | LF | \$16 | \$ 6,400 |
| 2 | 1.5" to 2.5" Pressure Service Mains | 3900 | LF | \$18 | \$ 70,200 |
| 3 | PSM Shutoff Valves w/ Valve Box | 4 | EA | \$350 | \$ 1,400 |
| 4 | PSM Flushing Connections in Manhole (one every 1000') | 3 | EA | \$2,500 | \$ 7,500 |
| H. | ABANDON SEPTIC TANKS (Assumes tanks can be abandoned in place) | | | | |
| 1 | houses | 118 | EA | \$500 | \$ 59,000 |
| 2 | Municipal and Private Institutions, and Commercial | L.S. | L.S. | L.S. | \$ 5,000 |
| I. | SITE PREPARATION | L.S. | L.S. | L.S. | \$ 50,000 |
| J. | SITE RESTORATION | | | | |
| 1 | Pavement | 2000 | L.F. | \$22 | \$ 44,000 |
| 2 | Grass (Remaining pipe length 10' wide) | 32700 | L.F. | \$6 | \$ 196,200 |
| | OPTION SUBTOTAL | | | | \$ 1,894,950 |
| | TRAFFIC CONTROL, UTILITY RELOCATIONS, AND MOBILIZATION AT 10% | | | | \$ 189,495 |
| | SUBTOTAL | | | | \$ 2,084,445 |
| | CONTINGENCIES AT 25% | | | | \$ 521,111 |
| | SUBTOTAL | | | | \$ 2,605,556 |
| | ENGINEERING, LEGAL, AND MISCELLANEOUS AT 25% | | | | \$ 651,389 |
| | TOTAL ESTIMATED PROJECT COST | | | | \$ 3,256,945 |
| | ROUND TO | | | | \$ 3,255,000 |

**ONEIDA CREEK WATER QUALITY IMPROVEMENT TASK FORCE
SEWER SYSTEM EVALUATION**

BAG D.1 (Area 12 With Their Own Package Treatment Plant)

| NO. | ITEM | QUAN. | UNIT | UNIT PRICE | TOTAL |
|-----|---|-------|------|------------|---------------------|
| A. | GRAVITY SEWER SYSTEMS (trenching included, restoration not included) | | | | |
| 1 | 6" Laterals (including trenching)* avg length 25' | 5500 | LF | \$25 | \$ 137,500 |
| 2 | 8" Mainline Collection | 22000 | LF | \$45 | \$ 990,000 |
| 3 | 10" Mainline Collection | 1000 | LF | \$50 | \$ 50,000 |
| B. | MANHOLES | 70 | EA | \$3,500 | \$ 245,000 |
| C. | PUMPING STATIONS (submersible solids handling type type) | | | | |
| 1 | PS #1 - 6' DIA. WET WELL, 13' DEEP, 5 HP PUMPS | L.S. | L.S. | L.S. | \$ 110,000 |
| D. | PUMPING STATIONS (submersible grinder type) | | | | |
| 1 | PS #2 - 4' DIA. WET WELL, 19' DEEP, 3 HP PUMPS | L.S. | L.S. | L.S. | \$ 50,000 |
| E. | SANITARY FORCE MAINS (Main Pumping Systems) (trenching included, restoration not included) | | | | |
| 1 | 3.0" Force Main | 1200 | LF | \$22 | \$ 26,400 |
| 2 | 6.0" Force Main | 1300 | LF | \$50 | \$ 65,000 |
| F. | CASED CROSSINGS (includes carrier and casing pipe, assume 35' crossings) | | | | |
| 1 | 12" Crossing of abandoned rail bed | 50 | L.F. | \$225 | \$ 11,250.00 |
| 2 | 24" Crossing of State St. | 35 | L.F. | \$350 | \$ 12,250.00 |
| 3 | 24" Crossing of State Rte 5 | 35 | L.F. | \$350 | \$ 12,250.00 |
| G. | GRINDER PUMPING UNITS | | | | |
| 1 | Simplex units | 4 | EA | \$5,000 | \$ 20,000 |
| 2 | Duplex units | 1 | EA | \$10,000 | \$ 10,000 |
| H. | PRESSURE SERVICE MAINS (Grinder Systems) (trenching included, restoration not included) | | | | |
| | 1.5" Pressure Service Main Laterals | 125 | LF | \$16 | \$ 2,000 |
| | 1.5" to 2.5" Pressure Service Mains | 1550 | LF | \$18 | \$ 27,900 |
| | PSM Shutoff Valves w/ Valve Box | 5 | EA | \$350 | \$ 1,750 |
| | PSM Flushing Connections in Manhole (one every 1000') | 1 | EA | \$2,500 | \$ 2,500 |
| I. | PACKAGE TREATMENT PLANT - 0.075 mgd | L.S. | L.S. | L.S. | \$ 500,000 |
| J. | ABANDON SEPTIC TANKS (Assumes tanks can be abandoned in place) | 219 | EA | \$500 | \$ 109,500 |
| K. | SITE PREPARATION | L.S. | L.S. | L.S. | \$ 25,000 |
| L. | SITE RESTORATION | | | | |
| 1 | Pavement (1/2 total pipe length) | 12000 | L.F. | \$22 | \$ 264,000 |
| 2 | Grass (Remaining pipe length 8 10' wide) | 15050 | S.Y. | \$6 | \$ 90,300 |
| | OPTION SUBTOTAL | | | | \$ 2,762,600 |
| | TRAFFIC CONTROL, UTILITY RELOCATIONS, AND MOBILIZATION AT 10% | | | | \$ 276,260 |
| | SUBTOTAL | | | | \$ 3,038,860 |
| | CONTINGENCIES AT 25% | | | | \$ 759,715 |
| | SUBTOTAL | | | | \$ 3,798,575 |
| | ENGINEERING, LEGAL, AND MISCELLANEOUS AT 25% | | | | \$ 949,644 |
| | TOTAL ESTIMATED PROJECT COST | | | | \$ 4,748,219 |
| | ROUND TO | | | | \$ 4,750,000 |

**ONEIDA CREEK WATER QUALITY IMPROVEMENT TASK FORCE
SEWER SYSTEM EVALUATION**

BAG D.2 (Areas 6A, 6B, 7, 8, and 13 With Their Own Package Treatment Plant)

| NO. | ITEM | QUAN. | UNIT | UNIT PRICE | TOTAL |
|-----|---|-------|------|------------|-------------------|
| | Sub-area 6A | | | | |
| A. | GRAVITY SEWER SYSTEMS (trenching included, restoration not included) | | | | |
| 1 | 6" Laterals (including trenching)* avg length 25' | 1300 | LF | \$25 | \$ 32,500.00 |
| 2 | 8" Mainline Collection | 5300 | LF | \$45 | \$ 238,500 |
| B. | MANHOLES | 18 | EA | \$3,500 | \$ 63,000 |
| C. | PUMPING STATIONS (submersible grinder type) | | | | |
| 1 | PS# 8 - 4' DIA. WET WELL, 17' Deep, 3 HP | L.S. | L.S. | L.S. | \$ 50,000 |
| D. | SANITARY FORCE MAINS (Main Pumping Systems) (trenching included, restoration not included) | | | | |
| 1 | 2.5" Force Main | 1600 | LF | \$20 | \$ 32,000 |
| E. | CASED CROSSINGS (includes carrier and casing pipe, assume 35' crossings) | | | | |
| 1 | 24" Crossing of State St. | 35 | L.F. | \$350 | \$ 12,250 |
| 2 | 24" Crossing of NYS Rte 365 - 2 ea | 70 | L.F. | \$350 | \$ 24,500 |
| F. | ABANDON SEPTIC TANKS (Assumes tanks can be abandoned in place) | 49 | EA | \$500 | \$ 24,500 |
| G. | SITE PREPARATION | L.S. | L.S. | L.S. | \$ 10,000 |
| H. | SITE RESTORATION | | | | |
| 1 | Pavement (1/2 total pipe length) | 800 | L.F. | \$22 | \$ 17,600 |
| 2 | Grass (Remaing pipe length 8 10' wide) | 5800 | L.F. | \$6 | \$ 34,800 |
| | SUBTOTAL | | | | \$ 539,650 |
| | Sub-area 6B | | | | |
| A. | GRAVITY SEWER SYSTEMS (trenching included, restoration not included) | | | | |
| 1 | 6" Laterals (including trenching)* avg length 25' | 1500 | LF | \$25 | \$ 37,500 |
| 2 | 8" Mainline Collection | 5200 | LF | \$45 | \$ 234,000 |
| B. | MANHOLES | 16 | EA | \$3,500 | \$ 56,000 |
| C. | PUMPING STATIONS (submersible grinder type) | | | | |
| 1 | PS# 4 - 4' DIA. WET WELL, 18' DEEP, 5 HP PUMPS | L.S. | L.S. | L.S. | \$ 50,000 |
| D. | SANITARY FORCE MAINS (Main Pumping Systems) (trenching included, restoration not included) | | | | |
| 1 | 3.0" Force Main | 1000 | LF | \$22 | \$ 22,000 |
| E. | CASED CROSSINGS (includes carrier and casing) | | | | |
| 1 | 24" crossing of Prospect | 35 | LF | \$350 | \$ 12,250 |
| F. | CREEK CROSSING | 75 | LF | \$300 | \$ 22,500 |
| G. | ABANDON SEPTIC TANKS (Assumes tanks can be abandoned in place) | 52 | EA | \$500 | \$ 26,000 |
| H. | SITE PREPARATION | L.S. | L.S. | L.S. | \$ 10,000 |
| I. | SITE RESTORATION | | | | |
| 1 | Pavement (all 8" grav. Piping) | 2200 | L.F. | \$22 | \$ 48,400 |
| 2 | Grass (Remaing pipe length 8 10' wide) | 5000 | L.F. | \$6 | \$ 30,000 |

| | | | | | | |
|----|---|---|------|------|----------|---------------------|
| | | SUBTOTAL | | | | \$ 548,650 |
| | | | | | | |
| | | Sub-area 7 | | | | |
| A. | | GRAVITY SEWER SYSTEMS (trenching included, restoration not included) | | | | |
| | 1 | 6" Laterals (including trenching)* avg length 25' | 1000 | LF | \$25 | \$ 25,000 |
| | 2 | 8" Mainline Collection | 5350 | LF | \$45 | \$ 240,750 |
| B. | | MANHOLES | 14 | EA | \$3,500 | \$ 49,000 |
| C. | | PUMPING STATIONS (submersible grinder type) | | | | |
| | 1 | PS #7 - 4' DIA. WET WELL, 17' Deep, 7.5 HP | L.S. | L.S. | L.S. | \$ 60,000 |
| | 1 | PS #8 - 4' DIA. WET WELL, 17' Deep, 3.0 HP | L.S. | L.S. | L.S. | \$ 50,000 |
| D. | | SANITARY FORCE MAINS (Main Pumping Systems) (trenching included, restoration not included) | | | | |
| | 1 | 2.5" Force Main | 1700 | LF | \$20 | \$ 34,000 |
| | 2 | 6.0" Force Main | 800 | LF | \$35 | \$ 28,000 |
| E. | | CASED CROSSINGS (includes carrier and casing pipe) | | | | |
| | 1 | 24" Crossing of State St. - 2 ea. | 70 | L.F. | \$350 | \$ 24,500 |
| F. | | SIPHON CROSSINGS | | | | |
| | 1 | Pipe crossing | 100 | L.F. | \$300 | \$ 30,000 |
| | 2 | Inlet and outlet structures | 2 | EA. | \$5,000 | \$ 10,000 |
| G. | | PACKAGE TREATMENT PLANT - 0.075 MGD | L.S. | L.S. | L.S. | \$ 500,000 |
| H. | | ABANDON SEPTIC TANKS (Assumes tanks can be abandoned in place) | 38 | EA | \$500 | \$ 19,000 |
| I. | | SITE PREPARATION | L.S. | L.S. | L.S. | \$ 10,000 |
| J. | | SITE RESTORATION | | | | |
| | 1 | Pavement | 750 | L.F. | \$22 | \$ 16,500 |
| | 2 | Grass (Remaining pipe length 10' wide) | 8100 | L.F. | \$6 | \$ 48,600 |
| | | SUBTOTAL | | | | \$ 1,145,350 |
| | | | | | | |
| | | Sub-area 8 | | | | |
| A. | | GRAVITY SEWER SYSTEMS (trenching included, restoration not included) | | | | |
| | 1 | 6" Laterals (including trenching)* avg length 25' | 125 | LF | \$25 | \$ 3,125 |
| | 2 | 8" Mainline Collection | 2000 | LF | \$45 | \$ 90,000 |
| B. | | Manholes | 5 | EA | \$3,500 | \$ 17,500 |
| C. | | GRINDER PUMPING UNITS | | | | |
| | 1 | Simplex units | 7 | EA | \$5,000 | \$ 35,000 |
| | 2 | Duplex units | 8 | EA | \$10,000 | \$ 80,000 |
| D. | | PRESSURE SERVICE MAINS (Grinder Systems) (trenching included, restoration not included) | | | | |
| | 1 | 1.5" Pressure Service Main Laterals | 600 | LF | \$18 | \$ 10,800 |
| | 2 | 1.5" to 2.5" Pressure Service Mains | 2100 | LF | \$18 | \$ 37,800 |
| | 3 | 3.0" Pressure Service Mains | 2400 | LF | \$22 | \$ 52,800 |
| | 4 | PSM Shutoff Valves w/ Valve Box | 15 | EA | \$350 | \$ 5,250 |
| | 5 | PSM Flushing Connections in Manhole (one every 1000') | 4 | EA | \$2,500 | \$ - |
| E. | | SIPHON CROSSINGS | | | | |
| | 1 | Pipe crossing | 50 | L.F. | \$300 | \$ 15,000 |
| | 2 | Inlet and outlet structures | 2 | EA. | \$5,000 | \$ 10,000 |
| F. | | ABANDON SEPTIC TANKS (Assumes tanks can be abandoned in place) | 30 | EA | \$500 | \$ 15,000 |
| G. | | SITE PREPARATION | L.S. | L.S. | L.S. | \$ 20,000 |
| H. | | SITE RESTORATION | | | | |

TABLE 10

| | | | | | | | | |
|----|---|---|--|------|------|----------|-----------------|---------------------|
| | 1 | Pavement | | 2000 | L.F. | \$22 | \$ | 44,000 |
| | 2 | Grass (Remaining pipe length 10' wide) | | 4625 | L.F. | \$6 | \$ | 27,750 |
| | | SUBTOTAL | | | | | \$ | 464,025 |
| | | Sub-area 13 | | | | | | |
| A. | | GRAVITY SEWER SYSTEMS | | | | | | |
| | | (trenching included, restoration not included) | | | | | | |
| | 1 | 6" Laterals (including trenching)* avg length 25' | | 700 | LF | \$25 | \$ | 17,500 |
| | 2 | 8" Mainline Collection | | 3350 | LF | \$45 | \$ | 150,750 |
| B. | | MANHOLES | | 10 | EA | \$3,500 | \$ | 35,000 |
| C. | | PUMPING STATIONS | | | | | | |
| | | (submersible grinder type) | | | | | | |
| | 1 | PS #3 - 4' DIA. WET WELL, 15' DEEP, 3 HP PUMPS | | L.S. | L.S. | L.S. | \$ | 50,000 |
| D. | | SANITARY FORCE MAINS (Main Pumping Systems) | | | | | | |
| | | (trenching included, restoration not included) | | | | | | |
| | 1 | 4.0" Force Main | | 1200 | LF | \$25 | \$ | 30,000 |
| E. | | GRINDER PUMPING UNITS | | | | | | |
| | 1 | Simplex units | | 6 | EA | \$5,000 | \$ | 30,000 |
| | 2 | Duplex units | | 3 | EA | \$10,000 | \$ | 30,000 |
| F. | | PRESSURE SERVICE MAINS (Grinder Systems) | | | | | | |
| | | (trenching included, restoration not included) | | | | | | |
| | | 1.5" Pressure Service Main Laterals | | 225 | LF | \$16 | \$ | 3,600 |
| | | 1.5" to 2.5" Pressure Service Mains | | 1800 | LF | \$18 | \$ | 32,400 |
| | | PSM Shutoff Valves w/ Valve Box | | 9 | EA | \$350 | \$ | 3,150 |
| | | PSM Flushing Connections in Manhole (one every 1000') | | 7 | EA | \$2,500 | \$ | 17,500 |
| G. | | ABANDON SEPTIC TANKS | | 27 | EA | \$500 | \$ | 13,500 |
| | | (Assumes tanks can be abandoned in place) | | | | | | |
| H. | | SITE PREPARATION | | L.S. | L.S. | L.S. | \$ | 10,000 |
| I. | | SITE RESTORATION | | | | | | |
| | 1 | Pavement (1/2 total pipe length) | | 500 | L.F. | \$22 | \$ | 11,000 |
| | 2 | Grass (Remaining pipe length 10' wide) | | 5575 | L.F. | \$6 | \$ | 33,450 |
| | | SUBTOTAL | | | | | \$ | 467,850 |
| | | OPTION SUBTOTAL | | | | | \$ | 3,165,525 |
| | | TRAFFIC CONTROL, UTILITY RELOCATIONS, AND MOBILIZATION AT 10% | | | | | \$ | 316,553 |
| | | SUBTOTAL | | | | | \$ | 3,482,078 |
| | | CONTINGENCIES AT 25% | | | | | \$ | 870,519 |
| | | SUBTOTAL | | | | | \$ | 4,352,597 |
| | | ENGINEERING, LEGAL, AND MISCELLANEOUS AT 25% | | | | | \$ | 1,088,149 |
| | | TOTAL ESTIMATED PROJECT COST | | | | | \$ | 5,440,746 |
| | | | | | | | ROUND TO | \$ 5,460,000 |

**ONEIDA CREEK WATER QUALITY IMPROVEMENT TASK FORCE
SEWER SYSTEM EVALUATION**

BAG D.3 - (Areas 6A, 6B, 7, 8, 12, And 13 With Their Own Package Treatment Plant)

| NO. | ITEM | QUAN. | UNIT | UNIT PRICE | TOTAL |
|--------------------|---|-------|------|------------|-------------------|
| Sub-area 6A | | | | | |
| A. | GRAVITY SEWER SYSTEMS (trenching included, restoration not included) | | | | |
| 1 | 6" Laterals (including trenching)* avg length 25' | 1300 | LF | \$25 | \$ 32,500 |
| 2 | 8" Mainline Collection | 5300 | LF | \$45 | \$ 238,500 |
| B. | MANHOLES | 18 | EA | \$3,500 | \$ 63,000 |
| C. | CASED CROSSINGS (includes carrier and casing pipe, assume 35' crossings) | | | | |
| 1 | 24" Crossing of State St. | 35 | L.F. | \$350 | \$ 12,250 |
| 2 | 24" Crossing of State Rte 365 | 35 | L.F. | \$350 | \$ 12,250 |
| D. | ABANDON SEPTIC TANKS (Assumes tanks can be abandoned in place) | 49 | EA | \$500 | \$ 24,500 |
| E. | SITE PREPARATION | L.S. | L.S. | L.S. | \$ 10,000 |
| F. | SITE RESTORATION | | | | |
| 1 | Pavement (1/2 total pipe length) | 800 | L.F. | \$22 | \$ 17,600 |
| 2 | Grass (Remaining pipe length 8 10' wide) | 5800 | L.F. | \$6 | \$ 34,800 |
| | SUBTOTAL | | | | \$ 445,400 |
| Sub-area 6B | | | | | |
| A. | GRAVITY SEWER SYSTEMS (trenching included, restoration not included) | | | | |
| 1 | 6" Laterals (including trenching)* avg length 25' | 1500 | LF | \$25 | \$ 37,500 |
| 2 | 8" Mainline Collection | 5200 | LF | \$45 | \$ 234,000 |
| B. | MANHOLES | 16 | EA | \$3,500 | \$ 56,000 |
| C. | PUMPING STATIONS (submersible solids handling type) | | | | |
| 1 | PS# 4 - 4' DIA. WET WELL, 18' DEEP, 2 HP PUMPS | L.S. | L.S. | L.S. | \$ 50,000 |
| D. | SANITARY FORCE MAINS (Main Pumping Systems) (trenching included, restoration not included) | | | | |
| 1 | 3.0" Force Main | 1000 | LF | \$22 | \$ 22,000 |
| E. | CASED CROSSINGS (includes carrier and casing pipe) | | | | |
| 1 | 24" Crossing of Prospect | 35 | L.F. | \$350 | \$ 12,250 |
| F. | CREEK CROSSING | 75 | L.F. | \$300 | \$ 22,500 |
| G. | ABANDON SEPTIC TANKS (Assumes tanks can be abandoned in place) | 52 | EA | \$500 | \$ 26,000 |
| H. | SITE PREPARATION | L.S. | L.S. | L.S. | \$ 10,000 |
| I. | SITE RESTORATION | | | | |
| 1 | Pavement (all 8" grav. Piping) | 2200 | L.F. | \$22 | \$ 48,400 |
| 2 | Grass (Remaining pipe length 8 10' wide) | 5000 | L.F. | \$6 | \$ 30,000 |
| | SUBTOTAL | | | | \$ 548,650 |
| Sub-area 7 | | | | | |
| A. | GRAVITY SEWER SYSTEMS (trenching included, restoration not included) | | | | |
| 1 | 6" Laterals (including trenching)* avg length 25' | 1000 | LF | \$25 | \$ 25,000 |
| 2 | 8" Mainline Collection | 5350 | LF | \$45 | \$ 240,750 |

**ONEIDA CREEK WATER QUALITY IMPROVEMENT TASK FORCE
SEWER SYSTEM EVALUATION**

BAG D.3 - (Areas 6A, 6B, 7, 8, 12, And 13 With Their Own Package Treatment Plant)

| NO. | ITEM | QUAN. | UNIT | UNIT PRICE | TOTAL |
|-----|---|-------|------|------------|-------------------|
| B. | MANHOLES | 14 | EA | \$3,500 | \$ 49,000 |
| C. | PUMPING STATIONS (submersible grinder type) | | | | |
| 1 | PS #7 - 4' DIA. WET WELL, 17' Deep, 7.5 hp | L.S. | L.S. | L.S. | \$ 60,000 |
| D. | SANITARY FORCE MAINS (Main Pumping Systems) (trenching included, restoration not included) | | | | |
| 1 | 6.0" Force Main | 1900 | LF | \$35 | \$ 66,500 |
| E. | CASED CROSSINGS (includes carrier and casing pipe) | | | | |
| 1 | 24" Crossing of State St. - 2 ea. | 70 | L.F. | \$350 | \$ 24,500 |
| F. | SIPHON CROSSINGS | | | | |
| 1 | Pipe crossing | 100 | L.F. | \$300 | \$ 30,000 |
| 2 | Inlet and outlet structures | 4 | EA. | \$5,000 | \$ 20,000 |
| G. | ABANDON SEPTIC TANKS (Assumes tanks can be abandoned in place) | 38 | EA | \$500 | \$ 19,000 |
| H. | SITE PREPARATION | L.S. | L.S. | L.S. | \$ 10,000 |
| I. | SITE RESTORATION | | | | |
| 1 | Pavement | 750 | L.F. | \$22 | \$ 16,500 |
| 2 | Grass (Remaing pipe length 10' wide) | 5600 | L.F. | \$6 | \$ 33,600 |
| | SUBTOTAL | | | | \$ 594,850 |
| | Sub-area 8 | | | | |
| A. | GRAVITY SEWER SYSTEMS (trenching included, restoration not included) | | | | |
| 1 | 6" Laterals (including trenching)* avg length 25' | 125 | LF | \$25 | \$ 3,125 |
| 2 | 8" Mainline Collection | 2000 | LF | \$45 | \$ 90,000 |
| B. | Manholes | 5 | EA | \$3,500 | \$ 17,500 |
| C. | GRINDER PUMPING UNITS | | | | |
| 1 | Simplex units | 7 | EA | \$5,000 | \$ 35,000 |
| 2 | Duplex units | 8 | EA | \$10,000 | \$ 80,000 |
| D. | PRESSURE SERVICE MAINS (Grinder Systems) (trenching included, restoration not included) | | | | |
| 1 | 1.5" Presure Service Main Laterals | 600 | LF | \$18 | \$ 10,800 |
| 2 | 1.5" to 2.5" Presure Service Mains | 2100 | LF | \$18 | \$ 37,800 |
| 3 | 3.0" Presure Service Mains | 2400 | LF | \$22 | \$ 52,800 |
| 4 | PSM Shutoff Valves w/ Valve Box | 15 | EA | \$350 | \$ 5,250 |
| 5 | PSM Flushing Connections in Manhole (one every 1000') | 4 | EA | \$2,500 | \$ - |
| E. | SIPHON CROSSINGS | | | | |
| 1 | Pipe crossing | 50 | L.F. | \$300 | \$ 15,000 |
| 2 | Inlet and outlet structures | 2 | EA. | \$5,000 | \$ 10,000 |
| F. | ABANDON SEPTIC TANKS (Assumes tanks can be abandoned in place) | 30 | EA | \$500 | \$ 15,000 |
| G. | SITE PREPARATION | L.S. | L.S. | L.S. | \$ 20,000 |
| H. | SITE RESTORATION | | | | |
| 1 | Pavement | 2000 | L.F. | \$22 | \$ 44,000 |
| 2 | Grass (Remaing pipe length 10' wide) | 4625 | L.F. | \$6 | \$ 27,750 |
| | SUBTOTAL | | | | \$ 464,025 |
| | Sub-area 12 | | | | |
| A. | GRAVITY SEWER SYSTEMS (trenching included, restoration not included) | | | | |
| 1 | 6" Laterals (including trenching)* avg length 25' | 5500 | LF | \$25 | \$ 137,500 |
| 2 | 8" Mainline Collection | 22000 | LF | \$45 | \$ 990,000 |
| 3 | 10" Mainline Collection | 1000 | LF | \$50 | \$ 50,000 |

**ONEIDA CREEK WATER QUALITY IMPROVEMENT TASK FORCE
SEWER SYSTEM EVALUATION**

BAG D.3 - (Areas 6A, 6B, 7, 8, 12, And 13 With Their Own Package Treatment Plant)

| NO. | ITEM | QUAN. | UNIT | UNIT PRICE | TOTAL |
|-----|---|-------|------|------------|---------------------|
| B. | MANHOLES | 70 | EA | \$3,500 | \$ 245,000 |
| C. | PUMPING STATIONS (submersible solids handling type) | | | | |
| | 1 PS #1 - 6' DIA. WET WELL, 17' DEEP, 15 HP PUMPS | L.S. | L.S. | L.S. | \$ 115,000 |
| D. | PUMPING STATIONS (submersible grinder type) | | | | |
| | 1 PS #2 - 4' DIA. WET WELL, 19' DEEP, 3 HP PUMPS | L.S. | L.S. | L.S. | \$ 50,000 |
| E. | SANITARY FORCE MAINS (Main Pumping Systems) (trenching included, restoration not included) | | | | |
| | 1 3.0" Force Main | 1200 | LF | \$22 | \$ 26,400 |
| | 2 4.0" Force Main | 1300 | LF | \$25 | \$ 32,500 |
| F. | CASED CROSSINGS (includes carrier and casing pipe, assume 35' crossings) | | | | |
| | 1 12" Crossing of abandoned rail bed | 50 | L.F. | \$225 | \$ 11,250 |
| | 2 24" Crossing of State St. | 35 | L.F. | \$350 | \$ 12,250 |
| | 3 24" Crossing of State Rte 5 | 35 | L.F. | \$350 | \$ 12,250 |
| G. | GRINDER PUMPING UNITS | | | | |
| | 1 Simplex units | 4 | EA | \$5,000 | \$ 20,000 |
| | 2 Duplex units | 1 | EA | \$10,000 | \$ 10,000 |
| H. | PRESSURE SERVICE MAINS (Grinder Systems) (trenching included, restoration not included) | | | | |
| | 1.5" Pressure Service Main Laterals | 125 | LF | \$16 | \$ 2,000 |
| | 1.5" to 2.5" Pressure Service Mains | 1550 | LF | \$18 | \$ 27,900 |
| | PSM Shutoff Valves w/ Valve Box | 5 | EA | \$350 | \$ 1,750 |
| | PSM Flushing Connections in Manhole (one every 1000') | 1 | EA | \$2,500 | \$ 2,500 |
| I. | PACKAGE TREATMENT PLANT - 0.15 MGD | L.S. | L.S. | L.S. | \$ 600,000 |
| J. | ABANDON SEPTIC TANKS (Assumes tanks can be abandoned in place) | 219 | EA | \$500 | \$ 109,500 |
| K. | SITE PREPARATION | L.S. | L.S. | L.S. | \$ 25,000 |
| L. | SITE RESTORATION | | | | |
| | 1 Pavement (1/2 total pipe length) | 12000 | L.F. | \$22 | \$ 264,000 |
| | 2 Grass (Remaining pipe length 8 10' wide) | 15050 | S.Y. | \$6 | \$ 90,300 |
| | SUBTOTAL | | | | \$ 2,835,100 |
| | Sub-area 13 | | | | |
| A. | GRAVITY SEWER SYSTEMS (trenching included, restoration not included) | | | | |
| | 1 6" Laterals (including trenching)* avg length 25' | 700 | LF | \$25 | \$ 17,500 |
| | 2 8" Mainline Collection | 3350 | LF | \$45 | \$ 150,750 |
| B. | MANHOLES | 10 | EA | \$3,500 | \$ 35,000 |
| C. | PUMPING STATIONS (submersible grinder type) | | | | |
| | 1 PS #3 - 4' DIA. WET WELL, 15' DEEP, 3 HP PUMPS | L.S. | L.S. | L.S. | \$ 50,000 |
| D. | SANITARY FORCE MAINS (Main Pumping Systems) (trenching included, restoration not included) | | | | |
| | 1 4.0" Force Main | 1200 | LF | \$25 | \$ 30,000 |
| E. | GRINDER PUMPING UNITS | | | | |
| | 1 Simplex units | 6 | EA | \$5,000 | \$ 30,000 |
| | 2 Duplex units | 3 | EA | \$10,000 | \$ 30,000 |
| F. | PRESSURE SERVICE MAINS (Grinder Systems) (trenching included, restoration not included) | | | | |
| | 1.5" Pressure Service Main Laterals | 225 | LF | \$16 | \$ 3,600 |

**ONEIDA CREEK WATER QUALITY IMPROVEMENT TASK FORCE
SEWER SYSTEM EVALUATION**

BAG D.3 - (Areas 6A, 6B, 7, 8, 12, And 13 With Their Own Package Treatment Plant)

| NO. | ITEM | QUAN. | UNIT | UNIT PRICE | TOTAL |
|-----|---|-------|------|-----------------|---------------------|
| | 1.5" to 2.5" Pressure Service Mains | 1800 | LF | \$18 | \$ 32,400 |
| | PSM Shutoff Valves w/ Valve Box | 9 | EA | \$350 | \$ 3,150 |
| | PSM Flushing Connections in Manhole (one every 1000') | 7 | EA | \$2,500 | \$ 17,500 |
| G. | ABANDON SEPTIC TANKS (Assumes tanks can be abandoned in place) | 27 | EA | \$500 | \$ 13,500 |
| H. | SITE PREPARATION | L.S. | L.S. | L.S. | \$ 10,000 |
| I. | SITE RESTORATION | | | | |
| | 1 Pavement (1/2 total pipe length) | 500 | L.F. | \$22 | \$ 11,000 |
| | 2 Grass (Remaining pipe length 8 10' wide) | 5575 | L.F. | \$6 | \$ 33,450 |
| | SUBTOTAL | | | | \$ 467,850 |
| | OPTION SUBTOTAL | | | | \$ 5,355,875 |
| | TRAFFIC CONTROL, UTILITY RELOCATIONS, AND MOBILIZATION AT 10% | | | | \$ 535,588 |
| | SUBTOTAL | | | | \$ 5,891,463 |
| | CONTINGENCIES AT 25% | | | | \$ 1,472,866 |
| | SUBTOTAL | | | | \$ 7,364,328 |
| | ENGINEERING, LEGAL, AND MISCELLANEOUS AT 25% | | | | \$ 1,841,082 |
| | TOTAL ESTIMATED PROJECT COST | | | | \$ 9,205,410 |
| | | | | ROUND TO | \$ 9,205,000 |

**ONEIDA CREEK WATER QUALITY IMPROVEMENT TASK FORCE
SEWER SYSTEM EVALUATION**

BAG D.4 (All of Area 11 With Their Own Package Treatment Plant)

| NO. | ITEM | QUAN. | UNIT | UNIT PRICE | TOTAL |
|-----|---|-------|------|------------|---------------------|
| A. | GRAVITY SEWER SYSTEMS (trenching included, restoration not included) | | | | |
| 1 | 6" Laterals (including trenching)* avg length 25' | 4850 | LF | \$25 | \$ 121,250 |
| 2 | 8" Mainline Collection | 20050 | LF | \$45 | \$ 902,250 |
| B. | MANHOLES | 55 | EA | \$3,500 | \$ 192,500 |
| C. | PUMPING STATION (submersible solids handling type) | | | | |
| 1 | PS #9 - 6' DIA. WET WELL, 17' DEEP, 20 HP PUMPS | L.S. | L.S. | L.S. | \$ 125,000 |
| 2 | PS #9A - 6' DIA. WET WELL, 10' DEEP, 20 HP PUMPS | L.S. | L.S. | L.S. | \$ 100,000 |
| D. | SANITARY FORCE MAINS (Main Pumping Systems) (trenching included, restoration not included) | | | | |
| 1 | 6.0" Force Main | 5400 | LF | \$35 | \$ 189,000 |
| E. | CASED CROSSINGS (includes carrier and casing pipe) | | | | |
| 1 | 24" Crossing in the Village at 35' ea. | 105 | L.F. | \$350 | \$ 36,750 |
| 2 | 24" Crossing of NYS Rte 5 at 35' ea. | 105 | L.F. | \$350 | \$ 36,750 |
| F. | GRINDER PUMPING UNITS | | | | |
| 1 | Simplex units | 13 | EA | \$5,000 | \$ 65,000 |
| 2 | Duplex units | 2 | EA | \$10,000 | \$ 20,000 |
| G. | PRESSURE SERVICE MAINS (Grinder Systems) (trenching included, restoration not included) | | | | |
| 1 | 1.5" Pressure Service Main Laterals | 400 | LF | \$16 | \$ 6,400 |
| 2 | 1.5" to 2.5" Pressure Service Mains | 6950 | LF | \$18 | \$ 125,100 |
| 3 | PSM Shutoff Valves w/ Valve Box | 15 | EA | \$350 | \$ 5,250 |
| 4 | PSM Flushing Connections in Manhole (one every 1000') | 6 | EA | \$2,500 | \$ 15,000 |
| H. | PACKAGE TREATMENT PLANT - 0.10 MGD | L.S. | L.S. | L.S. | \$ 530,000 |
| I. | ABANDON SEPTIC TANKS (Assumes tanks can be abandoned in place) | | | | |
| 1 | houses | 198 | EA | \$500 | \$ 99,000 |
| 2 | Municipal and Private Institutions, and Commercial | L.S. | L.S. | L.S. | \$ 5,000 |
| J. | SITE PREPARATION | L.S. | L.S. | L.S. | \$ 50,000 |
| K. | SITE RESTORATION | | | | |
| 1 | Pavement | 2000 | L.F. | \$22 | \$ 44,000 |
| 2 | Grass (Remaining pipe length 10' wide) | 35650 | L.F. | \$6 | \$ 213,900 |
| | OPTION SUBTOTAL | | | | \$ 2,882,150 |
| | TRAFFIC CONTROL, UTILITY RELOCATIONS, AND MOBILIZATION AT 10% | | | | \$ 288,215 |
| | SUBTOTAL | | | | \$ 3,170,365 |
| | CONTINGENCIES AT 25% | | | | \$ 792,591 |
| | SUBTOTAL | | | | \$ 3,962,956 |
| | ENGINEERING, LEGAL, AND MISCELLANEOUS AT 25% | | | | \$ 990,739 |
| | TOTAL ESTIMATED PROJECT COST | | | | \$ 4,953,695 |
| | ROUND TO | | | | \$ 4,955,000 |

**ONEIDA CREEK WATER QUALITY IMPROVEMENT TASK FORCE
SEWER SYSTEM EVALUATION**

**O & M COST ESTIMATE (PRESENT WORTH)
BAG C.1 (Areas 6A, 12, and 13)**

| NO. | ITEM | QUAN. | ANNUAL | EVERY 5 YRS | EVERY 10 YEARS | 15 YR PRESENT WORTH | | | | VALUE X |
|-----|---|-------|--------|----------------|-------------------|--|-------------|-----------------|-------------|-------------------|
| | | | | | | P/A | 5 YR F/P | 10 YR F/P | 15 YR F/P | QUAN |
| A. | MAINLINE PIPING (gravity) | 34400 | 34400 | | | 11.94 | | | | |
| | | | | | | \$ 410,736.00 | | | | \$ 410,736 |
| B. | MAINLINE PIPING (pressure) | 5250 | 2625 | | | 11.94 | | | | |
| | | | | | | \$ 31,342.50 | | | | \$ 31,343 |
| C. | PUMPING STATION (submersible solids handling type) | 1 | 2600 | \$2,000 | \$ 5,000 | 11.94 | 1.16 | 1.34 | 1.56 | |
| | | | | | | \$ 31,044.00 | \$ 2,320.00 | \$ 2,680.00 | \$ 3,120.00 | \$ 39,164 |
| | | | | | | | | \$ 6,700.00 | | \$ 6,700 |
| D. | PUMPING STATION (submersible grinder type) | 2 | 5200 | \$1,500 | \$ 3,000 | 11.94 | 1.16 | 1.34 | 1.56 | |
| | | | | | | \$ 62,088.00 | \$ 1,740.00 | \$ 2,010.00 | \$ 2,340.00 | \$ 136,356 |
| | | | | | | | | \$ 4,020.00 | | \$ 8,040 |
| E. | GRINDER PUMPING UNITS | | | | | | | | | |
| | Simplex units | 4 | 600 | \$750 | \$ 1,500 | 11.94 | 1.16 | 1.34 | 1.56 | |
| | | | | | | \$ 7,164.00 | \$ 870.00 | \$ 1,005.00 | \$ 1,170.00 | \$ 40,836 |
| | | | | | | | | \$ 2,010.00 | | \$ 8,040 |
| | Duplex units | 1 | 600 | \$1,500 | \$ 3,000 | 11.94 | 1.16 | 1.34 | 1.56 | |
| | | | | | | \$ 7,164.00 | \$ 1,740.00 | \$ 2,010.00 | \$ 2,340.00 | \$ 13,254 |
| | | | | | | | | \$ 4,020.00 | | \$ 4,020 |
| F. | ELECTRICAL COSTS | | | | | | | | | |
| | Main Pumping Station - submersible solids handling type | 1 | 250 | | | 11.94 | | | | |
| | | | | | | \$ 2,985.00 | | | | \$ 2,985 |
| | Main Pumping Station - grinder type | 2 | 150 | | | 11.94 | | | | |
| | | | | | | \$ 1,791.00 | | | | \$ 3,582 |
| | Grinder units - simplex | 4 | 60 | | | 11.94 | | | | |
| | | | | | | \$ 716.40 | | | | \$ 2,866 |
| | Grinder units - duplex | 1 | 120 | | | 11.94 | | | | |
| | | | | | | \$ 1,432.80 | | | | \$ 1,433 |
| | | | | | | TOTAL ESTIMATED 15 YEAR PRESENT WORTH | | | | \$ 709,354 |
| | | | | | | | | ROUND TO | | \$ 710,000 |

**ONEIDA CREEK WATER QUALITY IMPROVEMENT TASK FORCE
SEWER SYSTEM EVALUATION**

**O & M COST ESTIMATE (PRESENT WORTH)
BAG C.1.a (Areas 6A, 12, and 13)**

| NO. | ITEM | QUAN. | ANNUAL | EVERY 5 YRS | EVERY 10 YEARS | 15 YR PRESENT WORTH | | | | VALUE X |
|-----|---|-------|--------|----------------|-------------------|--|-------------|-----------------|-------------|--------------|
| | | | | | | P/A | 5 YR F/P | 10 YR F/P | 15 YR F/P | QUAN |
| A. | MAINLINE PIPING (gravity) | 27650 | 27650 | | | 11.94 | | | | |
| | | | | | | \$ 330,141.00 | | | | \$ 330,141 |
| B. | MAINLINE PIPING (pressure) | 9050 | 4525 | | | 11.94 | | | | |
| | | | | | | \$ 54,028.50 | | | | \$ 54,029 |
| C. | PUMPING STATION (submersible solids handling type) | 1 | 2600 | \$2,000 | \$ 5,000 | 11.94 | 1.16 | 1.34 | 1.56 | |
| | | | | | | \$ 31,044.00 | \$ 2,320.00 | \$ 2,680.00 | \$ 3,120.00 | \$ 39,164 |
| | | | | | | | | \$ 6,700.00 | | \$ 6,700 |
| D. | PUMPING STATION (submersible grinder type) | 1 | 5200 | \$1,500 | \$ 3,000 | 11.94 | 1.16 | 1.34 | 1.56 | |
| | | | | | | \$ 62,088.00 | \$ 1,740.00 | \$ 2,010.00 | \$ 2,340.00 | \$ 68,178 |
| | | | | | | | | \$ 4,020.00 | | \$ 4,020 |
| E. | GRINDER PUMPING UNITS | | | | | | | | | |
| | 1 Simplex units | 16 | 600 | \$750 | \$ 1,500 | 11.94 | 1.16 | 1.34 | 1.56 | |
| | | | | | | \$ 7,164.00 | \$ 870.00 | \$ 1,005.00 | \$ 1,170.00 | \$ 163,344 |
| | | | | | | | | \$ 2,010.00 | | \$ 32,160 |
| | 2 Duplex units | 26 | 600 | \$1,500 | \$ 3,000 | 11.94 | 1.16 | 1.34 | 1.56 | |
| | | | | | | \$ 7,164.00 | \$ 1,740.00 | \$ 2,010.00 | \$ 2,340.00 | \$ 344,604 |
| | | | | | | | | \$ 4,020.00 | | \$ 104,520 |
| F. | ELECTRICAL COSTS | | | | | | | | | |
| | Main Pumping Station - submersible solids handling type | 1 | 250 | | | 11.94 | | | | |
| | | | | | | \$ 2,985.00 | | | | \$ 2,985 |
| | Main Pumping Station - grinder type | 1 | 150 | | | 11.94 | | | | |
| | | | | | | \$ 1,791.00 | | | | \$ 1,791 |
| | Grinder units - simplex | 16 | 60 | | | 11.94 | | | | |
| | | | | | | \$ 716.40 | | | | \$ 11,462 |
| | Grinder units - duplex | 26 | 120 | | | 11.94 | | | | |
| | | | | | | \$ 1,432.80 | | | | \$ 37,253 |
| | | | | | | TOTAL ESTIMATED 15 YEAR PRESENT WORTH | | | | \$ 1,200,351 |
| | | | | | | | | ROUND TO | | \$ 1,200,000 |

**ONEIDA CREEK WATER QUALITY IMPROVEMENT TASK FORCE
SEWER SYSTEM EVALUATION**

**O & M COST ESTIMATE (PRESENT WORTH)
BAG C.2 (Area 6B)**

| NO. | ITEM | QUAN. | ANNUAL | EVERY 5 YRS | EVERY 10 YEARS | 15 YR PRESENT WORTH | | | | VALUE X |
|--|---|-------|--------|----------------|-------------------|---------------------|-------------|-------------|-------------|-------------------|
| | | | | | | P/A | 5 YR F/P | 10 YR F/P | 15 YR F/P | QUAN |
| A. | MAINLINE PIPING (gravity) | 5200 | 5200 | | | 11.94 | | | | |
| | | | | | | \$ 62,088.00 | | | | \$ 62,088 |
| B. | MAINLINE PIPING (pressure) | 1000 | 500 | | | 11.94 | | | | |
| | | | | | | \$ 5,970.00 | | | | \$ 5,970 |
| C. | PUMPING STATION (submersible solids handling type) | 0 | 2600 | \$2,000 | \$ 5,000 | 11.94 | 1.16 | 1.34 | 1.56 | |
| | | | | | | \$ 31,044.00 | \$ 2,320.00 | \$ 2,680.00 | \$ 3,120.00 | \$ - |
| | | | | | | | | \$ 6,700.00 | | \$ - |
| D. | PUMPING STATION (submersible grinder type) | 1 | 5200 | \$1,500 | \$ 3,000 | 11.94 | 1.16 | 1.34 | 1.56 | |
| | | | | | | \$ 62,088.00 | \$ 1,740.00 | \$ 2,010.00 | \$ 2,340.00 | \$ 68,178 |
| | | | | | | | | \$ 4,020.00 | | \$ 4,020 |
| E. | GRINDER PUMPING UNITS | | | | | | | | | |
| | 1 Simplex units | 0 | 600 | \$750 | \$ 1,500 | 11.94 | 1.16 | 1.34 | 1.56 | |
| | | | | | | \$ 7,164.00 | \$ 870.00 | \$ 1,005.00 | \$ 1,170.00 | \$ - |
| | | | | | | | | \$ 2,010.00 | | \$ - |
| | 2 Duplex units | 0 | 600 | \$1,500 | \$ 3,000 | 11.94 | 1.16 | 1.34 | 1.56 | |
| | | | | | | \$ 7,164.00 | \$ 1,740.00 | \$ 2,010.00 | \$ 2,340.00 | \$ - |
| | | | | | | | | \$ 4,020.00 | | \$ - |
| F. | ELECTRICAL COSTS | | | | | | | | | |
| | Main Pumping Station - submersible solids handling type | 0 | 250 | | | 11.94 | | | | |
| | | | | | | \$ 2,985.00 | | | | \$ - |
| | Main Pumping Station - grinder type | 1 | 150 | | | 11.94 | | | | |
| | | | | | | \$ 1,791.00 | | | | \$ 1,791 |
| | Grinder units - simplex | 0 | 60 | | | 11.94 | | | | |
| | | | | | | \$ 716.40 | | | | \$ - |
| | Grinder units - duplex | 0 | 120 | | | 11.94 | | | | |
| | | | | | | \$ 1,432.80 | | | | \$ - |
| TOTAL ESTIMATED 15 YEAR PRESENT WORTH | | | | | | | | | | \$ 142,047 |
| ROUND TO | | | | | | | | | | \$ 140,000 |

**ONEIDA CREEK WATER QUALITY IMPROVEMENT TASK FORCE
SEWER SYSTEM EVALUATION**

**O & M COST ESTIMATE (PRESENT WORTH)
BAG C.3 (Areas 7 and 8)**

| NO. | ITEM | QUAN. | ANNUAL | EVERY 5 YRS | EVERY 10 YEARS | 15 YR PRESENT WORTH | | | | VALUE X QUAN |
|-----|---|-------|--------|----------------|-------------------|--|-----------------|-------------|-------------|-------------------|
| | | | | | | P/A | 5 YR F/P | 10 YR F/P | 15 YR F/P | |
| A. | MAINLINE PIPING (gravity) | 11500 | 11500 | | | 11.94 | | | | |
| | | | | | | \$ 137,310.00 | | | | \$ 137,310 |
| B. | MAINLINE PIPING (pressure) | 3100 | 1550 | | | 11.94 | | | | |
| | | | | | | \$ 18,507.00 | | | | \$ 18,507 |
| C. | PUMPING STATION (submersible solids handling type) | 0 | 2600 | \$2,000 | \$ 5,000 | 11.94 | 1.16 | 1.34 | 1.56 | |
| | | | | | | \$ 31,044.00 | \$ 2,320.00 | \$ 2,680.00 | \$ 3,120.00 | \$ - |
| | | | | | | | \$ 6,700.00 | | | \$ - |
| D. | PUMPING STATION (submersible grinder type) | 2 | 5200 | \$1,500 | \$ 3,000 | 11.94 | 1.16 | 1.34 | 1.56 | |
| | | | | | | \$ 62,088.00 | \$ 1,740.00 | \$ 2,010.00 | \$ 2,340.00 | \$ 136,356 |
| | | | | | | | \$ 4,020.00 | | | \$ 8,040 |
| E. | GRINDER PUMPING UNITS | | | | | | | | | |
| | 1 Simplex units | 0 | 600 | \$750 | \$ 1,500 | 11.94 | 1.16 | 1.34 | 1.56 | |
| | | | | | | \$ 7,164.00 | \$ 870.00 | \$ 1,005.00 | \$ 1,170.00 | \$ - |
| | | | | | | | \$ 2,010.00 | | | \$ - |
| | 2 Duplex units | 0 | 600 | \$1,500 | \$ 3,000 | 11.94 | 1.16 | 1.34 | 1.56 | |
| | | | | | | \$ 7,164.00 | \$ 1,740.00 | \$ 2,010.00 | \$ 2,340.00 | \$ - |
| | | | | | | | \$ 4,020.00 | | | \$ - |
| F. | ELECTRICAL COSTS | | | | | | | | | |
| | Main Pumping Station - submersible solids handling type | 0 | 250 | | | 11.94 | | | | |
| | | | | | | \$ 2,985.00 | | | | \$ - |
| | Main Pumping Station - grinder type | 2 | 150 | | | 11.94 | | | | |
| | | | | | | \$ 1,791.00 | | | | \$ 3,582 |
| | Grinder units - simplex | 0 | 60 | | | 11.94 | | | | |
| | | | | | | \$ 716.40 | | | | \$ - |
| | Grinder units - duplex | 0 | 120 | | | 11.94 | | | | |
| | | | | | | \$ 1,432.80 | | | | \$ - |
| | | | | | | TOTAL ESTIMATED 15 YEAR PRESENT WORTH | | | | \$ 303,795 |
| | | | | | | | ROUND TO | | | \$ 305,000 |

**ONEIDA CREEK WATER QUALITY IMPROVEMENT TASK FORCE
SEWER SYSTEM EVALUATION**

**O & M COST ESTIMATE (PRESENT WORTH)
BAG C.3.a (Areas 7 and 8)**

| NO. | ITEM | QUAN. | ANNUAL | EVERY 5 YRS | EVERY 10 YEARS | 15 YR PRESENT WORTH | | | | VALUE X |
|-----|---|-------|--------|----------------|-------------------|--|-------------|-----------------|-------------|-------------------|
| | | | | | | P/A | 5 YR F/P | 10 YR F/P | 15 YR F/P | QUAN |
| A. | MAINLINE PIPING (gravity) | 7350 | 7350 | | | 11.94 | | | | |
| | | | | | | \$ 87,759.00 | | | | \$ 87,759 |
| B. | MAINLINE PIPING (pressure) | 4500 | 2250 | | | 11.94 | | | | |
| | | | | | | \$ 26,865.00 | | | | \$ 26,865 |
| C. | PUMPING STATION (submersible solids handling type) | 0 | 2600 | \$2,000 | \$ 5,000 | 11.94 | 1.16 | 1.34 | 1.56 | |
| | | | | | | \$ 31,044.00 | \$ 2,320.00 | \$ 2,680.00 | \$ 3,120.00 | \$ - |
| | | | | | | | | \$ 6,700.00 | | \$ - |
| D. | PUMPING STATION (submersible grinder type) | 0 | 5200 | \$1,500 | \$ 3,000 | 11.94 | 1.16 | 1.34 | 1.56 | |
| | | | | | | \$ 62,088.00 | \$ 1,740.00 | \$ 2,010.00 | \$ 2,340.00 | \$ - |
| | | | | | | | | \$ 4,020.00 | | \$ - |
| E. | GRINDER PUMPING UNITS | | | | | | | | | |
| | 1 Simplex units | 7 | 600 | \$750 | \$ 1,500 | 11.94 | 1.16 | 1.34 | 1.56 | |
| | | | | | | \$ 7,164.00 | \$ 870.00 | \$ 1,005.00 | \$ 1,170.00 | \$ 71,463 |
| | | | | | | | | \$ 2,010.00 | | \$ 14,070 |
| | 2 Duplex units | 8 | 600 | \$1,500 | \$ 3,000 | 11.94 | 1.16 | 1.34 | 1.56 | |
| | | | | | | \$ 7,164.00 | \$ 1,740.00 | \$ 2,010.00 | \$ 2,340.00 | \$ 106,032 |
| | | | | | | | | \$ 4,020.00 | | \$ 32,160 |
| F. | ELECTRICAL COSTS | | | | | | | | | |
| | Main Pumping Station - submersible solids handling type | 0 | 250 | | | 11.94 | | | | |
| | | | | | | \$ 2,985.00 | | | | \$ - |
| | Main Pumping Station - grinder type | 0 | 150 | | | 11.94 | | | | |
| | | | | | | \$ 1,791.00 | | | | \$ - |
| | Grinder units - simplex | 7 | 60 | | | 11.94 | | | | |
| | | | | | | \$ 716.40 | | | | \$ 5,015 |
| | Grinder units - duplex | 8 | 120 | | | 11.94 | | | | |
| | | | | | | \$ 1,432.80 | | | | \$ 11,462 |
| | | | | | | TOTAL ESTIMATED 15 YEAR PRESENT WORTH | | | | \$ 354,826 |
| | | | | | | | | ROUND TO | | \$ 355,000 |

**ONEIDA CREEK WATER QUALITY IMPROVEMENT TASK FORCE
SEWER SYSTEM EVALUATION**

**SUMMARY OF FLOWS AND TREATMENT COSTS
Option C (with BAG C.4)**

| BAG | RESIDENTIAL UNITS | PEOPLE PER UNIT | TOTAL PEOPLE | FLOW (gpcd) | TOTAL | OTHER FLOWS | | | TOTAL DAILY FLOW | TOTAL ANNUAL FLOW | UNIT TREATMENT COST AT CITY (per 1000 gal) | TOTAL ANNUAL COST | 15 YEAR PRESENT WORTH OF TREATMENT | ROUND TO |
|------------------|----------------------|--------------------|-----------------|----------------|---------------------|-------------|-------------|----------|---------------------|----------------------|--|----------------------|--|---------------------|
| | | | | | RESIDENTIAL FLOW | Schools | Co. Offices | Co. Jail | | | | | | |
| C.1/C.1.a | 295 | 3 | 885 | 100 | 88,500 | 10,600 | | | 99,100 | 36,171,500 | \$ 2.40 | \$ 86,812 | \$ 1,036,531 | \$ 1,035,000 |
| C.2 | 52 | 3 | 156 | 100 | 15,600 | | | | 15,600 | 5,694,000 | \$ 2.40 | \$ 13,666 | \$ 163,167 | \$ 165,000 |
| C.3/C.3.a | 78 | 3 | 234 | 100 | 23,400 | | | | 23,400 | 8,541,000 | \$ 2.40 | \$ 20,498 | \$ 244,751 | \$ 245,000 |
| C.4 | 198 | 3 | 594 | 100 | 59,400 | 4,000 | 9,600 | 13,000 | 86,000 | 31,390,000 | \$ 2.40 | \$ 75,336 | \$ 899,512 | \$ 900,000 |
| Total | | | | | | | | | | | | | \$ 2,345,000 | |

**SUMMARY OF FLOWS AND TREATMENT COSTS
Option C (with BAG C.4.a)**

| BAG | RESIDENTIAL UNITS | PEOPLE PER UNIT | TOTAL PEOPLE | FLOW (gpcd) | TOTAL | OTHER FLOWS | | | TOTAL DAILY FLOW | TOTAL ANNUAL FLOW | UNIT TREATMENT COST AT CITY (per 1000 gal) | TOTAL ANNUAL COST | 15 YEAR PRESENT WORTH OF TREATMENT | ROUND TO |
|------------------|----------------------|--------------------|-----------------|----------------|---------------------|-------------|-------------|----------|---------------------|----------------------|--|----------------------|--|---------------------|
| | | | | | RESIDENTIAL FLOW | Schools | Co. Offices | Co. Jail | | | | | | |
| C.1/C.1.a | 295 | 3 | 885 | 100 | 88,500 | 10,600 | | | 99,100 | 36,171,500 | \$ 2.40 | \$ 86,812 | \$ 1,036,531 | \$ 1,035,000 |
| C.2 | 52 | 3 | 156 | 100 | 15,600 | | | | 15,600 | 5,694,000 | \$ 2.40 | \$ 13,666 | \$ 163,167 | \$ 165,000 |
| C.3/C.3.a | 78 | 3 | 234 | 100 | 23,400 | | | | 23,400 | 8,541,000 | \$ 2.40 | \$ 20,498 | \$ 244,751 | \$ 245,000 |
| C.4.a | 118 | 3 | 354 | 100 | 35,400 | 4,000 | 9,600 | 13,000 | 62,000 | 22,630,000 | \$ 2.40 | \$ 54,312 | \$ 648,485 | \$ 649,000 |
| Total | | | | | | | | | | | | | \$ 2,094,000 | |

**ONEIDA CREEK WATER QUALITY IMPROVEMENT TASK FORCE
SEWER SYSTEM EVALUATION**

**O & M COST ESTIMATE (PRESENT WORTH)
BAG D.1 (All of Area 12 With It's Own Package Treatment Plant)**

| NO. | ITEM | QUAN. | ANNUAL | EVERY 5 YRS | EVERY 10 YEARS | 15 YR PRESENT WORTH | | | | VALUE X |
|-----|---|--------|-----------|----------------|-------------------|--|-------------|--------------|-------------|--------------|
| | | | | | | P/A | 5 YR F/P | 10 YR F/P | 15 YR F/P | QUAN |
| A. | MAINLINE PIPING (gravity) | 23,000 | \$ 23,000 | | | 11.94 | | | | |
| | | | | | | \$ 274,620.00 | | | | \$ 274,620 |
| B. | MAINLINE PIPING (pressure) | 4,050 | \$ 2,025 | | | 11.94 | | | | |
| | | | | | | \$ 24,178.50 | | | | \$ 24,179 |
| C. | PUMPING STATION (submersible solids handling type) | 1 | \$ 2,600 | \$2,000 | \$ 5,000 | 11.94 | 1.16 | 1.34 | 1.56 | |
| | | | | | | \$ 31,044.00 | \$ 2,320.00 | \$ 2,680.00 | \$ 3,120.00 | \$ 39,164 |
| | | | | | | | | \$ 6,700.00 | | \$ 6,700 |
| D. | PUMPING STATION (submersible grinder type) | 1 | \$ 5,200 | \$1,500 | \$ 3,000 | 11.94 | 1.16 | 1.34 | 1.56 | |
| | | | | | | \$ 62,088.00 | \$ 1,740.00 | \$ 2,010.00 | \$ 2,340.00 | \$ 68,178 |
| | | | | | | | | \$ 4,020.00 | | \$ 4,020 |
| E. | GRINDER PUMPING UNITS | | | | | | | | | |
| | Simplex units | 4 | \$ 600 | \$750 | \$ 1,500 | 11.94 | 1.16 | 1.34 | 1.56 | |
| | | | | | | \$ 7,164.00 | \$ 870.00 | \$ 1,005.00 | \$ 1,170.00 | \$ 40,836 |
| | | | | | | | | \$ 2,010.00 | | \$ 8,040 |
| | Duplex units | 1 | \$ 600 | \$1,500 | \$ 3,000 | 11.94 | 1.16 | 1.34 | 1.56 | |
| | | | | | | \$ 7,164.00 | \$ 1,740.00 | \$ 2,010.00 | \$ 2,340.00 | \$ 13,254 |
| | | | | | | | | \$ 4,020.00 | | \$ 4,020 |
| F. | PACKAGE TREATMENT PLANT - 0.075 MGD | | | | | | | | | |
| | equipment replacement | 1 | \$ 5,000 | \$ 5,000 | \$ 20,000 | 11.94 | 1.16 | 1.34 | 1.56 | |
| | | | | | | \$ 59,700.00 | \$ 5,800.00 | \$ 6,700.00 | \$ 7,800.00 | \$ 80,000 |
| | | | | | | | | \$ 26,800.00 | | \$ 26,800 |
| | utilities | 1 | \$ 10,000 | | | 11.94 | | | | |
| | | | | | | \$ 119,400.00 | | | | \$ 119,400 |
| | solids handling fees | 1 | \$ 15,000 | | | 11.94 | | | | |
| | | | | | | \$ 179,100.00 | | | | \$ 179,100 |
| | solids tipping fees | 1 | \$ 1,000 | | | 11.94 | | | | |
| | | | | | | \$ 11,940.00 | | | | \$ 11,940 |
| | O&M | 1 | \$ 52,500 | | | 11.94 | | | | |
| | | | | | | \$ 626,850.00 | | | | \$ 626,850 |
| G. | ELECTRICAL COSTS | | | | | | | | | |
| | Main Pumping Station - submersible solids handling type | 1 | \$ 250 | | | 11.94 | | | | |
| | | | | | | \$ 2,985.00 | | | | \$ 2,985 |
| | Main Pumping Station - grinder type | 1 | \$ 150 | | | 11.94 | | | | |
| | | | | | | \$ 1,791.00 | | | | \$ 1,791 |
| | Grinder units - simplex | 4 | \$ 60 | | | 11.94 | | | | |
| | | | | | | \$ 716.40 | | | | \$ 2,866 |
| | Grinder units - duplex | 1 | \$ 120 | | | 11.94 | | | | |
| | | | | | | \$ 1,432.80 | | | | \$ 1,433 |
| | | | | | | TOTAL ESTIMATED 15 YEAR PRESENT WORTH | | | | \$ 1,536,175 |
| | | | | | | ROUND TO | | | | \$ 1,535,000 |

**ONEIDA CREEK WATER QUALITY IMPROVEMENT TASK FORCE
SEWER SYSTEM EVALUATION**

**O & M COST ESTIMATE (PRESENT WORTH)
BAG D.1 (All of Area 12 With It's Own Package Treatment Plant)**

| NO. | ITEM | QUAN. | ANNUAL | EVERY 5 YRS | EVERY 10 YEARS | 15 YR PRESENT WORTH | | | | VALUE X |
|-----|---|--------|-----------|----------------|-------------------|--|-------------|--------------|-------------|--------------|
| | | | | | | P/A | 5 YR F/P | 10 YR F/P | 15 YR F/P | QUAN |
| A. | MAINLINE PIPING (gravity) | 23,000 | \$ 23,000 | | | 11.94 | | | | |
| | | | | | | \$ 274,620.00 | | | | \$ 274,620 |
| B. | MAINLINE PIPING (pressure) | 4,050 | \$ 2,025 | | | 11.94 | | | | |
| | | | | | | \$ 24,178.50 | | | | \$ 24,179 |
| C. | PUMPING STATION (submersible solids handling type) | 1 | \$ 2,600 | \$2,000 | \$ 5,000 | 11.94 | 1.16 | 1.34 | 1.56 | |
| | | | | | | \$ 31,044.00 | \$ 2,320.00 | \$ 2,680.00 | \$ 3,120.00 | \$ 39,164 |
| | | | | | | | | \$ 6,700.00 | | \$ 6,700 |
| D. | PUMPING STATION (submersible grinder type) | 1 | \$ 5,200 | \$1,500 | \$ 3,000 | 11.94 | 1.16 | 1.34 | 1.56 | |
| | | | | | | \$ 62,088.00 | \$ 1,740.00 | \$ 2,010.00 | \$ 2,340.00 | \$ 68,178 |
| | | | | | | | | \$ 4,020.00 | | \$ 4,020 |
| E. | GRINDER PUMPING UNITS | | | | | | | | | |
| | Simplex units | 4 | \$ 600 | \$750 | \$ 1,500 | 11.94 | 1.16 | 1.34 | 1.56 | |
| | | | | | | \$ 7,164.00 | \$ 870.00 | \$ 1,005.00 | \$ 1,170.00 | \$ 40,836 |
| | | | | | | | | \$ 2,010.00 | | \$ 8,040 |
| | Duplex units | 1 | \$ 600 | \$1,500 | \$ 3,000 | 11.94 | 1.16 | 1.34 | 1.56 | |
| | | | | | | \$ 7,164.00 | \$ 1,740.00 | \$ 2,010.00 | \$ 2,340.00 | \$ 13,254 |
| | | | | | | | | \$ 4,020.00 | | \$ 4,020 |
| F. | PACKAGE TREATMENT PLANT - 0.075 MGD | | | | | | | | | |
| | equipment replacement | 1 | \$ 5,000 | \$ 5,000 | \$ 20,000 | 11.94 | 1.16 | 1.34 | 1.56 | |
| | | | | | | \$ 59,700.00 | \$ 5,800.00 | \$ 6,700.00 | \$ 7,800.00 | \$ 80,000 |
| | | | | | | | | \$ 26,800.00 | | \$ 26,800 |
| | utilities | 1 | \$ 10,000 | | | 11.94 | | | | |
| | | | | | | \$ 119,400.00 | | | | \$ 119,400 |
| | solids handling fees | 1 | \$ 15,000 | | | 11.94 | | | | |
| | | | | | | \$ 179,100.00 | | | | \$ 179,100 |
| | solids tipping fees | 1 | \$ 1,000 | | | 11.94 | | | | |
| | | | | | | \$ 11,940.00 | | | | \$ 11,940 |
| | O&M | 1 | \$ 52,500 | | | 11.94 | | | | |
| | | | | | | \$ 626,850.00 | | | | \$ 626,850 |
| G. | ELECTRICAL COSTS | | | | | | | | | |
| | Main Pumping Station - submersible solids handling type | 1 | \$ 250 | | | 11.94 | | | | |
| | | | | | | \$ 2,985.00 | | | | \$ 2,985 |
| | Main Pumping Station - grinder type | 1 | \$ 150 | | | 11.94 | | | | |
| | | | | | | \$ 1,791.00 | | | | \$ 1,791 |
| | Grinder units - simplex | 4 | \$ 60 | | | 11.94 | | | | |
| | | | | | | \$ 716.40 | | | | \$ 2,866 |
| | Grinder units - duplex | 1 | \$ 120 | | | 11.94 | | | | |
| | | | | | | \$ 1,432.80 | | | | \$ 1,433 |
| | | | | | | TOTAL ESTIMATED 15 YEAR PRESENT WORTH | | | | \$ 1,536,175 |
| | | | | | | ROUND TO | | | | \$ 1,535,000 |

**ONEIDA CREEK WATER QUALITY IMPROVEMENT TASK FORCE
SEWER SYSTEM EVALUATION**

**O & M COST ESTIMATE (PRESENT WORTH)
BAG D.2 (Areas 6A, 6B, 7, 8, and 13 With Their Own Package Treatment Plant)**

| NO. | ITEM | QUAN. | ANNUAL | EVERY 5 YRS | EVERY 10 YEARS | 15 YR PRESENT WORTH | | | | VALUE X QUAN |
|-----------|---|--------------|-----------|----------------|-------------------|--|-------------|-----------------|--------------|---------------------|
| | | | | | | P/A | 5 YR F/P | 10 YR F/P | 15 YR F/P | |
| A. | MAINLINE PIPING (gravity) | 21200 | 21200 | | | 11.94 | | | | |
| | | | | | | \$ 253,128.00 | | | | \$ 253,128 |
| B. | MAINLINE PIPING (pressure) | 11400 | 5700 | | | 11.94 | | | | |
| | | | | | | \$ 68,058.00 | | | | \$ 68,058 |
| C. | PUMPING STATION (submersible solids handling type) | 0 | 2600 | \$2,000 | \$ 5,000 | 11.94 | 1.16 | 1.34 | 1.56 | |
| | | | | | | \$ 31,044.00 | \$ 2,320.00 | \$ 2,680.00 | \$ 3,120.00 | \$ - |
| | | | | | | | | \$ 6,700.00 | | \$ - |
| D. | PUMPING STATION (submersible grinder type) | 4 | 5200 | \$1,500 | \$ 3,000 | 11.94 | 1.16 | 1.34 | | |
| | | | | | | \$ 62,088.00 | \$ 1,740.00 | \$ 2,010.00 | \$ - | \$ 263,352 |
| | | | | | | | | \$ 4,020.00 | | \$ 16,080 |
| E. | GRINDER PUMPING UNITS | | | | | | | | | |
| | Simplex units | 16 | 600 | \$750 | \$ 1,500 | 11.94 | 1.16 | 1.34 | | |
| | | | | | | \$ 7,164.00 | \$ 870.00 | \$ 1,005.00 | \$ - | \$ 144,624 |
| | | | | | | | | \$ 2,010.00 | | \$ 32,160 |
| | Duplex units | 11 | 600 | \$1,500 | \$ 3,000 | 11.94 | 1.16 | 1.34 | | |
| | | | | | | \$ 7,164.00 | \$ 1,740.00 | \$ 2,010.00 | \$ - | \$ 120,054 |
| | | | | | | | | \$ 4,020.00 | | \$ 44,220 |
| F. | PACKAGE TREATMENT PLANT - 0.075 MGD | | | | | | | | | |
| | equipment replacement | 1 | \$ 5,000 | \$ 7,000 | \$ 25,000 | 11.94 | 1.16 | 1.34 | 1.56 | |
| | | | | | | \$ 59,700.00 | \$ 8,120.00 | \$ 9,380.00 | \$ 10,920.00 | \$ 88,120 |
| | | | | | | | | \$ 33,500.00 | | \$ 33,500 |
| | utilities | 1 | \$ 10,000 | | | 11.94 | | | | |
| | | | | | | \$ 119,400.00 | | | | \$ 119,400 |
| | solids handling fees | 1 | \$ 15,000 | | | 11.94 | | | | |
| | | | | | | \$ 179,100.00 | | | | \$ 179,100 |
| | solids tipping fees | 1 | \$ 1,000 | | | 11.94 | | | | |
| | | | | | | \$ 11,940.00 | | | | \$ 11,940 |
| | O&M | 1 | \$ 52,500 | | | 11.94 | | | | |
| | | | | | | \$ 626,850.00 | | | | \$ 626,850 |
| G. | ELECTRICAL COSTS | | | | | | | | | |
| | Main Pumping Station - submersible solids handling type | 0 | 250 | | | 11.94 | | | | |
| | | | | | | \$ 2,985.00 | | | | \$ - |
| | Main Pumping Station - grinder type | 4 | 150 | | | 11.94 | | | | |
| | | | | | | \$ 1,791.00 | | | | \$ 7,164 |
| | Grinder units - simplex | 16 | 60 | | | 11.94 | | | | |
| | | | | | | \$ 716.40 | | | | \$ 11,462 |
| | Grinder units - duplex | 11 | 120 | | | 11.94 | | | | |
| | | | | | | \$ 1,432.80 | | | | \$ 15,761 |
| | | | | | | TOTAL ESTIMATED 15 YEAR PRESENT WORTH | | | | \$ 2,034,973 |
| | | | | | | | | ROUND TO | | \$ 2,035,000 |

**ONEIDA CREEK WATER QUALITY IMPROVEMENT TASK FORCE
SEWER SYSTEM EVALUATION**

**O & M COST ESTIMATE (PRESENT WORTH)
BAG D.3 (Areas 6A, 6B, 7, 8, 12, and 13 With Their Own Package Treatment Plant)**

| NO. | ITEM | QUAN. | ANNUAL | EVERY 5 YRS | EVERY 10 YEARS | 15 YR PRESENT WORTH | | | | VALUE X QUAN |
|-----------|---|--------------|-----------|----------------|-------------------|--|-------------|--------------|--------------|---------------------|
| | | | | | | P/A | 5 YR F/P | 10 YR F/P | 15 YR F/P | |
| A. | MAINLINE PIPING (gravity) | 44200 | 44200 | | | 11.94 | | | | |
| | | | | | | \$ 527,748.00 | | | | \$ 527,748 |
| B. | MAINLINE PIPING (pressure) | 14450 | 7225 | | | 11.94 | | | | |
| | | | | | | \$ 86,266.50 | | | | \$ 86,267 |
| C. | PUMPING STATION (submersible solids handling type) | 1 | 2600 | \$2,000 | \$ 5,000 | 11.94 | 1.16 | 1.34 | 1.56 | |
| | | | | | | \$ 31,044.00 | \$ 2,320.00 | \$ 2,680.00 | \$ 3,120.00 | \$ 39,164 |
| | | | | | | | | \$ 6,700.00 | | \$ 6,700 |
| D. | PUMPING STATION (submersible grinder type) | 4 | 5200 | \$1,500 | \$ 3,000 | 11.94 | 1.16 | 1.34 | 1.56 | |
| | | | | | | \$ 62,088.00 | \$ 1,740.00 | \$ 2,010.00 | \$ 2,340.00 | \$ 272,712 |
| | | | | | | | | \$ 4,020.00 | | \$ 16,080 |
| E. | GRINDER PUMPING UNITS | | | | | | | | | |
| | Simplex units | 10 | 600 | \$750 | \$ 1,500 | 11.94 | 1.16 | 1.34 | 1.56 | |
| | | | | | | \$ 7,164.00 | \$ 870.00 | \$ 1,005.00 | \$ 1,170.00 | \$ 102,090 |
| | | | | | | | | \$ 2,010.00 | | \$ 20,100 |
| | Duplex units | 4 | 600 | \$1,500 | \$ 3,000 | 11.94 | 1.16 | 1.34 | 1.56 | |
| | | | | | | \$ 7,164.00 | \$ 1,740.00 | \$ 2,010.00 | \$ 2,340.00 | \$ 53,016 |
| | | | | | | | | \$ 4,020.00 | | \$ 16,080 |
| F. | PACKAGE TREATMENT PLANT - 0.15 MGD | | | | | | | | | |
| | equipment replacement | 1 | \$ 10,000 | \$ 7,000 | \$ 25,000 | 11.94 | 1.16 | 1.34 | 1.56 | |
| | | | | | | \$ 119,400.00 | \$ 8,120.00 | \$ 9,380.00 | \$ 10,920.00 | \$ 147,820 |
| | | | | | | | | \$ 33,500.00 | | \$ 33,500 |
| | utilities | 1 | \$ 20,000 | | | 11.94 | | | | |
| | | | | | | \$ 238,800.00 | | | | \$ 238,800 |
| | solids handling fees | 1 | \$ 30,000 | | | 11.94 | | | | |
| | | | | | | \$ 358,200.00 | | | | \$ 358,200 |
| | solids tipping fees | 1 | \$ 2,000 | | | 11.94 | | | | |
| | | | | | | \$ 23,880.00 | | | | \$ 23,880 |
| | O&M | 1 | \$ 52,500 | | | 11.94 | | | | |
| | | | | | | \$ 626,850.00 | | | | \$ 626,850 |
| G. | ELECTRICAL COSTS | | | | | | | | | |
| | Main Pumping Station - submersible solids handling type | 1 | 250 | | | 11.94 | | | | |
| | | | | | | \$ 2,985.00 | | | | \$ 2,985 |
| | Main Pumping Station - grinder type | 4 | 150 | | | 11.94 | | | | |
| | | | | | | \$ 1,791.00 | | | | \$ 7,164 |
| | Grinder units - simplex | 10 | 60 | | | 11.94 | | | | |
| | | | | | | \$ 716.40 | | | | \$ 7,164 |
| | Grinder units - duplex | 4 | 120 | | | 11.94 | | | | |
| | | | | | | \$ 1,432.80 | | | | \$ 5,731 |
| | | | | | | TOTAL ESTIMATED 15 YEAR PRESENT WORTH | | | | \$ 2,592,051 |
| | | | | | | ROUND TO | | | | \$ 2,595,000 |

**ONEIDA CREEK WATER QUALITY IMPROVEMENT TASK FORCE
SEWER SYSTEM EVALUATION**

O & M COST ESTIMATE (PRESENT WORTH)

BAG D.4 (All of Area 11 With Their Own Package Treatment Plant)

| NO. | ITEM | QUAN. | ANNUAL | EVERY | EVERY | 15 YR PRESENT WORTH | | | | VALUE X | |
|-----|---|-------|-----------|----------|-----------|---------------------|-------------|--------------|--------------|---------|------------|
| | | | | 5 YRS | 10 YEARS | P/A | 5 YR F/P | 10 YR F/P | 15 YR F/P | QUAN | |
| A. | MAINLINE PIPING (gravity) | 20050 | 20050 | | | 11.94 | | | | | |
| | | | | | | \$ 239,397.00 | | | | | \$ 239,397 |
| B. | MAINLINE PIPING (pressure) | 20050 | 10025 | | | 11.94 | | | | | |
| | | | | | | \$ 119,698.50 | | | | | \$ 119,699 |
| C. | PUMPING STATION (submersible solids handling type) | 2 | 2600 | \$2,000 | \$ 5,000 | 11.94 | 1.16 | 1.34 | 1.56 | | |
| | | | | | | \$ 31,044.00 | \$ 2,320.00 | \$ 2,680.00 | \$ 3,120.00 | | \$ 78,328 |
| | | | | | | | | \$ 6,700.00 | | | \$ 13,400 |
| D. | PUMPING STATION (submersible grinder type) | 0 | 5200 | \$1,500 | \$ 3,000 | 11.94 | 1.16 | 1.34 | 1.56 | | |
| | | | | | | \$ 62,088.00 | \$ 1,740.00 | \$ 2,010.00 | \$ 2,340.00 | | \$ - |
| | | | | | | | | \$ 4,020.00 | | | \$ - |
| E. | GRINDER PUMPING UNITS | | | | | | | | | | |
| 1 | Simplex units | 13 | 600 | \$750 | \$ 1,500 | 11.94 | 1.16 | 1.34 | 1.56 | | |
| | | | | | | \$ 7,164.00 | \$ 870.00 | \$ 1,005.00 | \$ 1,170.00 | | \$ 132,717 |
| | | | | | | | | \$ 2,010.00 | | | \$ 26,130 |
| 2 | Duplex units | 2 | 600 | \$1,500 | \$ 3,000 | 11.94 | 1.16 | 1.34 | 1.56 | | |
| | | | | | | \$ 7,164.00 | \$ 1,740.00 | \$ 2,010.00 | \$ 2,340.00 | | \$ 26,508 |
| | | | | | | | | \$ 4,020.00 | | | \$ 8,040 |
| F. | PACKAGE TREATMENT PLANT - 0.10 MGD | | | | | | | | | | |
| | equipment replacement | 1 | \$ 7,000 | \$ 7,000 | \$ 20,000 | 11.94 | 1.16 | 1.34 | 1.56 | | |
| | | | | | | \$ 83,580.00 | \$ 8,120.00 | \$ 9,380.00 | \$ 10,920.00 | | \$ 112,000 |
| | | | | | | | | \$ 26,800.00 | | | \$ 26,800 |
| | utilities | 1 | \$ 12,000 | | | 11.94 | | | | | |
| | | | | | | \$ 143,280.00 | | | | | \$ 143,280 |
| | solids handling fees | 1 | \$ 18,000 | | | 11.94 | | | | | |
| | | | | | | \$ 214,920.00 | | | | | \$ 214,920 |
| | solids tipping fees | 1 | \$ 1,200 | | | 11.94 | | | | | |
| | | | | | | \$ 14,328.00 | | | | | \$ 14,328 |
| | O&M | 1 | \$ 52,500 | | | 11.94 | | | | | |
| | | | | | | \$ 626,850.00 | | | | | \$ 626,850 |
| F. | ELECTRICAL COSTS | | | | | | | | | | |
| | Main Pumping Station - submersible solids handling type | 2 | 250 | | | 11.94 | | | | | |
| | | | | | | \$ 2,985.00 | | | | | \$ 5,970 |
| | Main Pumping Station - grinder type | 0 | 150 | | | 11.94 | | | | | |
| | | | | | | \$ 1,791.00 | | | | | \$ - |
| | Grinder units - simplex | 13 | 60 | | | 11.94 | | | | | |
| | | | | | | \$ 716.40 | | | | | \$ 9,313 |
| | Grinder units - duplex | 2 | 120 | | | 11.94 | | | | | |
| | | | | | | \$ 1,432.80 | | | | | \$ 2,866 |

TOTAL ESTIMATED 15 YEAR PRESENT WORTH \$ 1,800,545
ROUND TO \$ 1,800,000