

## **ATTACHMENT A**

### **SCOPE OF WORK**

CTS has completed the initial design services and solicited pricing from contracting trades for the projects included within the Scope of Work below.

CTS will provide final AS-Built drawings and facilitate all Occupancy Permits which require stamped documents by an engineer or architect registered in State of Illinois.

The Scope of Work will be installed in a neat and workmanlike manner in accordance with local codes and ASHRAE standards.

#### **General Requirements:**

CTS will meet the Village intention to have a complete turnkey installation. The bond provided for the construction of the project only covers the performance of materials and workmanship for the completion of said construction work, not the energy guarantee. As-built drawings and O&M manuals will be prepared and submitted before final payment. CTS will provide Owner Training on systems installed.

### **Lighting Upgrades**

Scope of Services to include the following:

CTS has included replacement of the T-12 lighting with T-8 fluorescent fixtures in all facilities listed below to improve lighting levels, reduce energy consumption and reduce maintenance costs throughout the Village

- Village Hall
- Civic Center
- Recreation Center

See the attached table identifying the lighting being replaced in each facility listed above. Note: We have identified all of the areas outside of the T-12 lighting fixtures that are not being replaced by indicating a "0" under the Quantity column.

| Ref. # | Building      | Location   | Existing Structure  | EXISTING SYSTEM   |                |                  |                  |                  |                  | PROPOSED SYSTEM  |                  |                  |                  |                  |                  | Savings |      |
|--------|---------------|--|---|---|----------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|---------|------|
|        |               |  |   | WATTS/EQUIP/HR  | WATTS/EQUIP/HR | TOTAL WATTS/HOUR |         |      |
| 1      | Fire Building | Battalion Building,<br>Room 109,<br>Chambers     | Single Occupied Room 3 x 4',<br>4x4x12' 30W fixture<br>Battalion Chambers                         | WATTS/EQUIPMENT: 420W, 1P, BULB/RT, 24" TUBE<br>WATTS/HOUR: 100W, 100W HOURS<br>HOURS/HY: 3750 HOURS/YEAR | 240            | 1.42             | 330              | 425.72           | 42               | 0.24             | 75.75            | 124.32           | 0                | 0%               | 0                | 0.00    | 0.00 |
| 2      | Fire Building | Recruiters Building,<br>Room 112 -<br>Emergency  | Single Occupied Room 3 x 4',<br>4x4x12' 30W fixture<br>90W, 100W, 120W, 170W,<br>Emergency 24x48' | WATTS/EQUIPMENT: 420W, 1P, BULB/RT, 24" TUBE<br>WATTS/HOUR: 100W, 100W HOURS<br>HOURS/HY: 3750 HOURS/YEAR | 140            | 0.42             | 63.0             | 129.42           | 43               | 0.045            | 5.50             | 57.68            | 0                | 0%               | 0                | 0.00    | 0.00 |
| 3      | Fire Building | Recruiters Building,<br>Room 112a -<br>Counselor | Single Occupied Room 3 x 4',<br>4x4x12' 30W fixture<br>90W, 100W, 120W, 170W                      | WATTS/EQUIPMENT: 420W, 1P, BULB/RT, 24" TUBE<br>WATTS/HOUR: 100W, 100W HOURS<br>HOURS/HY: 3750 HOURS/YEAR | 140            | 0.42             | 63.0             | 129.42           | 43               | 0.045            | 5.50             | 57.68            | 0                | 0%               | 0                | 0.00    | 0.00 |
| 4      | Fire Building | Recruiters Building, Room 112b -<br>Counselor    | Single Occupied Room 3 x 4',<br>4x4x12' 30W fixture<br>90W, 100W, 120W, 170W                      | WATTS/EQUIPMENT: 420W, 1P, BULB/RT, 24" TUBE<br>WATTS/HOUR: 100W, 100W HOURS<br>HOURS/HY: 3750 HOURS/YEAR | 140            | 0.42             | 63.0             | 129.42           | 43               | 0.045            | 5.50             | 57.68            | 0                | 0%               | 0                | 0.00    | 0.00 |
| 5      | Fire Building | Recruiters Building, Room 112c -<br>Counselor    | Single Occupied Room 3 x 4',<br>4x4x12' 30W fixture<br>90W, 100W, 120W, 170W                      | WATTS/EQUIPMENT: 420W, 1P, BULB/RT, 24" TUBE<br>WATTS/HOUR: 100W, 100W HOURS<br>HOURS/HY: 3750 HOURS/YEAR | 140            | 0.42             | 63.0             | 129.42           | 43               | 0.045            | 5.50             | 57.68            | 0                | 0%               | 0                | 0.00    | 0.00 |
| 6      | Fire Building | Recruiters Building, Room 112d -<br>Counselor    | Single Occupied Room 3 x 4',<br>4x4x12' 30W fixture<br>90W, 100W, 120W, 170W                      | WATTS/EQUIPMENT: 420W, 1P, BULB/RT, 24" TUBE<br>WATTS/HOUR: 100W, 100W HOURS<br>HOURS/HY: 3750 HOURS/YEAR | 140            | 0.42             | 63.0             | 129.42           | 43               | 0.045            | 5.50             | 57.68            | 0                | 0%               | 0                | 0.00    | 0.00 |
| 7      | Fire Building | Recruiters Building, Room 112e -<br>Counselor    | Single Occupied Room 3 x 4',<br>4x4x12' 30W fixture<br>90W, 100W, 120W, 170W                      | WATTS/EQUIPMENT: 420W, 1P, BULB/RT, 24" TUBE<br>WATTS/HOUR: 100W, 100W HOURS<br>HOURS/HY: 3750 HOURS/YEAR | 140            | 0.42             | 63.0             | 129.42           | 43               | 0.045            | 5.50             | 57.68            | 0                | 0%               | 0                | 0.00    | 0.00 |
| 8      | Fire Building | Recruiters Building, Room 112f -<br>Counselor    | Single Occupied Room 3 x 4',<br>4x4x12' 30W fixture<br>90W, 100W, 120W, 170W                      | WATTS/EQUIPMENT: 420W, 1P, BULB/RT, 24" TUBE<br>WATTS/HOUR: 100W, 100W HOURS<br>HOURS/HY: 3750 HOURS/YEAR | 140            | 0.42             | 63.0             | 129.42           | 43               | 0.045            | 5.50             | 57.68            | 0                | 0%               | 0                | 0.00    | 0.00 |
| 9      | Fire Building | Recruiters Building, Room 112g -<br>Counselor    | Single Occupied Room 3 x 4',<br>4x4x12' 30W fixture<br>90W, 100W, 120W, 170W                      | WATTS/EQUIPMENT: 420W, 1P, BULB/RT, 24" TUBE<br>WATTS/HOUR: 100W, 100W HOURS<br>HOURS/HY: 3750 HOURS/YEAR | 140            | 0.42             | 63.0             | 129.42           | 43               | 0.045            | 5.50             | 57.68            | 0                | 0%               | 0                | 0.00    | 0.00 |

| Proj # | BUILDING      | LOCATION  | EXISTING FIXTURE   | OFF-PEAK ENERGY USE (WATTS) | EXISTING SYSTEM  |                  |                | PROPOSED SYSTEM |                  |                | SAVINGS  |               |           |                 |
|--------|---------------|---|--|-----------------------------|--|------------------|----------------|-----------------|------------------|----------------|----------|---------------|-----------|-----------------|
|        |               |   |  |                             | NEW FIXTURE, RETROFIT  | TOTAL WATTS EACH | WATTS PER HOUR | OP HOURS        | TOTAL WATTS EACH | WATTS PER HOUR | OP HOURS | SUPER SAVINGS | % SAVINGS | PERCENT REDUCED |
| 10     | Rec. Building | Recreation Building, Lake Level - Classroom                         | One 10'x12' 1/2' deep<br>Fifield (340) 100W 65<br>Ballast, 140027W, Frequency<br>Control | 4,080                       | REPLACED WITH 4'x6' 1/2' DEEP<br>WHITE, 300W, 40W, 100-27% PROOF<br>RATED, 1/2' STEEL, 5-YEAR WARRANTY | 78               | 0.325          | 3,865           | 2,697.50%        | 43             | 0.285    | -208          | 0%        | 0%              |
| 11     | Rec. Building | Recreation Building, Lake Level - Computer Room, Transparency Table | One 10'x12' 1/2' deep<br>Fifield (340) 100W 65<br>Ballast, 140027W, Frequency Control    | 4,080                       | REPLACED WITH 4'x6' 1/2' DEEP<br>WHITE, 300W, 40W, 100-27% PROOF<br>RATED, 1/2' STEEL, 5-YEAR WARRANTY | 78               | 0.325          | 3,865           | 2,502.25%        | 43             | 0.275    | -363          | 0%        | 0%              |
| 12     | Rec. Building | Recreation Building, Lake Level - Computer Room, Transparency Table | One 10'x12' 1/2' deep<br>Fifield (340) 100W 65<br>Ballast, 140027W, Frequency Control    | 4,080                       | REPLACED WITH 4'x6' 1/2' DEEP<br>WHITE, 300W, 40W, 100-27% PROOF<br>RATED, 1/2' STEEL, 5-YEAR WARRANTY | 78               | 0.325          | 3,865           | 2,502.25%        | 43             | 0.275    | -363          | 0%        | 0%              |
| 13     | Rec. Building | Recreation Building, Room L13c - Seminar                            | One 10'x12' 1/2' deep<br>Fifield (340) 100W 65<br>Ballast, 140027W                       | 4,080                       | REPLACED WITH 4'x6' 1/2' DEEP<br>WHITE, 300W, 40W, 100-27% PROOF<br>RATED, 1/2' STEEL, 5-YEAR WARRANTY | 78               | 0.325          | 3,865           | 2,502.25%        | 43             | 0.275    | -363          | 0%        | 0%              |
| 14     | Rec. Building | Recreation Building, Room L13d - Seminar                            | One 10'x12' 1/2' deep<br>Fifield (340) 100W 65<br>Ballast, 140027W                       | 4,080                       | REPLACED WITH 4'x6' 1/2' DEEP<br>WHITE, 300W, 40W, 100-27% PROOF<br>RATED, 1/2' STEEL, 5-YEAR WARRANTY | 78               | 0.325          | 3,865           | 2,502.25%        | 43             | 0.275    | -363          | 0%        | 0%              |
| 15     | Rec. Building | Recreation Building, Room L13e - Seminar                            | One 10'x12' 1/2' deep<br>Fifield (340) 100W 65<br>Ballast, 140027W                       | 4,080                       | REPLACED WITH 4'x6' 1/2' DEEP<br>WHITE, 300W, 40W, 100-27% PROOF<br>RATED, 1/2' STEEL, 5-YEAR WARRANTY | 78               | 0.325          | 3,865           | 2,502.25%        | 43             | 0.275    | -363          | 0%        | 0%              |
| 16     | Rec. Building | Recreation Building, Room L13f - Seminar                            | One 10'x12' 1/2' deep<br>Fifield (340) 100W 65<br>Ballast, 140027W                       | 4,080                       | REPLACED WITH 4'x6' 1/2' DEEP<br>WHITE, 300W, 40W, 100-27% PROOF<br>RATED, 1/2' STEEL, 5-YEAR WARRANTY | 78               | 0.325          | 3,865           | 2,502.25%        | 43             | 0.275    | -363          | 0%        | 0%              |
| 17     | Rec. Building | Recreation Building, Room L13g - Seminar                            | One 10'x12' 1/2' deep<br>Fifield (340) 100W 65<br>Ballast, 140027W                       | 4,080                       | REPLACED WITH 4'x6' 1/2' DEEP<br>WHITE, 300W, 40W, 100-27% PROOF<br>RATED, 1/2' STEEL, 5-YEAR WARRANTY | 78               | 0.325          | 3,865           | 2,502.25%        | 43             | 0.275    | -363          | 0%        | 0%              |
| 18     | Rec. Building | Recreation Building, Room L13h - Seminar                            | One 10'x12' 1/2' deep<br>Fifield (340) 100W 65<br>Ballast, 140027W                       | 4,080                       | REPLACED WITH 4'x6' 1/2' DEEP<br>WHITE, 300W, 40W, 100-27% PROOF<br>RATED, 1/2' STEEL, 5-YEAR WARRANTY | 78               | 0.325          | 3,865           | 2,502.25%        | 43             | 0.275    | -363          | 0%        | 0%              |

| SYSTEM INFORMATION |               |  |   |     |  | EXISTING SYSTEM |         |          |           | PROPOSED SYSTEM |         |          |           |           |                     |       | SAVINGS           |             |      |          |
|--------------------|---------------|--|---|-----|--|-----------------|---------|----------|-----------|-----------------|---------|----------|-----------|-----------|---------------------|-------|-------------------|-------------|------|----------|
| Ref. #             | BUILDING      | LOCATION   | EXISTING FIXTURE  | QTY | NEW FIXTURE/RETROFIT   | WATTS EACH      | TOTAL W | OP. HOUR | TOTAL kWh | WATTS EACH      | TOTAL W | OP. HOUR | TOTAL kWh | SEN. CITY | CONTROL DESCRIPTION | OFF % | SENS. kWh SAVINGS | kWh Reduced | 2026 | 2050 kWh |
| 19                 | Rec. Building | Recreation Building, Room L115 - Women's Locker Room         | GridTrotter, 2'x4', 2x, PLATEL (SWN), Mag 15 Ballast, 120/277v, Fluorescent Lamp                  | 8   | RETRO FLUORESCENT 45W LP BALLAST, 2X4 TUBE, WHITE, 10000HR, 4000K, 120-277V, 2000HOUR RATED LIFE, 3YEAR WARRANTY | 45              | 360     | 4900     | 2233.864  | 45              | 360     | 4900     | 1210.948  | P         |                     | 0%    | 0                 | \$118       | 804  |          |
| 20                 | Rec. Building | Recreation Building, Room L115 - Women's Locker Room         | GridTrotter, 2'x4', 2x, PLATEL (SWN), Mag 15 Ballast, 120/277v, Fluorescent Lamp, Emergency Light | 1   | RETRO FLUORESCENT 45W LP BALLAST, 2X4 TUBE, WHITE, 10000HR, 4000K, 120-277V, 2000HOUR RATED LIFE, 3YEAR WARRANTY | 45              | 45      | 8000     | 354.72    | 45              | 45      | 8000     | 1810.04   | P         |                     | 0%    | 0                 | \$0.00      | 800  |          |
| 21                 | Rec. Building | Recreation Building, Room L115 - Women's Locker Room         | GridTrotter or Spare Not included in Project  | 4   | SOP Not included in project  | 0               | 0       | 0        | 0         | 0               | 0       | 0        | 0         | E         |                     | 0%    | 0                 | \$0.00      | 0    |          |
| 22                 | Rec. Building | Recreation Building, Room L115 - Women's Locker Room         | GridTrotter, 2'x4', 2x, PLATEL (SWN), Mag 15 Ballast, 120/277v                                    | 2   | RETRO FLUORESCENT 45W LP BALLAST, 2X4 TUBE, WHITE, 10000HR, 4000K, 120-277V, 2000HOUR RATED LIFE, 3YEAR WARRANTY | 45              | 90      | 4900     | 411.208   | 45              | 90      | 4900     | 163.708   | P         |                     | 0%    | 0                 | \$180       | 398  |          |
| 23                 | Rec. Building | Recreation Building, Room L115 - Women's Locker Room         | GridTrotter, 2'x4', 2x, PLATEL (SWN), Mag 15 Ballast, 120/277v                                    | 1   | RETRO FLUORESCENT 45W LP BALLAST, 2X4 TUBE, WHITE, 10000HR, 4000K, 120-277V, 2000HOUR RATED LIFE, 3YEAR WARRANTY | 45              | 45      | 4900     | 181.92    | 45              | 45      | 4900     | 529.72    | P         |                     | 0%    | 0                 | \$0.00      | 418  |          |
| 24                 | Rec. Building | Recreation Building, Room L114 - Women's Locker Room Storage | Industrial Hooded fixture, 1'x4', 2xPLATEL, 35W, Mag 15 Ballast, 120/277V                         | 3   | RETRO FLUORESCENT 45W LP BALLAST, 2X4 TUBE, WHITE, 10000HR, 4000K, 120-277V, 2000HOUR RATED LIFE, 3YEAR WARRANTY | 45              | 135     | 4900     | 57.37     | 45              | 135     | 4900     | 33.54     | P         |                     | 0%    | 0                 | \$0.00      | 24   |          |
| 25                 | Rec. Building | Recreation Building, Room L112 - Men's Locker Room           | GridTrotter, 2'x4', 2x, PLATEL (SWN), Mag 15 Ballast, 120/277v, Fluorescent Lamp                  | 5   | RETRO FLUORESCENT 45W LP BALLAST, 2X4 TUBE, WHITE, 10000HR, 4000K, 120-277V, 2000HOUR RATED LIFE, 3YEAR WARRANTY | 45              | 225     | 4900     | 178.0     | 45              | 225     | 4900     | 103.20    | P         |                     | 0%    | 0                 | \$115       | 765  |          |
| 26                 | Rec. Building | Recreation Building, Room L112 - Men's Locker Room           | GridTrotter, 2'x4', 2x, PLATEL (SWN), Mag 15 Ballast, 120/277v, Fluorescent Lamp, Emergency Light | 1   | RETRO FLUORESCENT 45W LP BALLAST, 2X4 TUBE, WHITE, 10000HR, 4000K, 120-277V, 2000HOUR RATED LIFE, 3YEAR WARRANTY | 45              | 45      | 8000     | 354.72    | 45              | 45      | 8000     | 1810.04   | P         |                     | 0%    | 0                 | \$0.00      | 805  |          |
| 27                 | Rec. Building | Recreation Building, Room L112 - Men's Locker Room           | GridTrotter or Spare Not included in Project  | 2   | SOP Not included in project  | 0               | 0       | 0        | 0         | 0               | 0       | 0        | 0         | E         |                     | 0%    | 0                 | \$0.00      | 0    |          |



| Proj # | BUILDING      | LOCATION                           | SYSTEM INFORMATION   |   |          | EXISTING SYSTEM |         |             | PROPOSED SYSTEM |             |         | SAVINGS          |                |         |                 |       |
|--------|---------------|------------------------------------|----------------------|---|----------|-----------------|---------|-------------|-----------------|-------------|---------|------------------|----------------|---------|-----------------|-------|
|        |               |                                    | EXISTING FUTURE CITY | KEY FIXTURE/BRIGHTNESS  | WATTS    | TOTAL WATTS     | CP HOUR | TOTAL WATTS | CP HOUR         | TOTAL WATTS | CP HOUR | CITY DESCRIPTION | OFF SEAS W/H % | SAVINGS | PERCENT REDUCED |       |
| 37     | Hrt. Building | Room#11750 - Wetherby's Restaurant | 3x18                 | 45,382  | 3,630.00 | 66,198          | 31,152  | 68,267      | 31,152          | 11,873      | 4,628   | 41.6%            | 1,695,361.65   |         |                 |       |
| 38     | Hrt. Building | Room#11750 - Wetherby's Restaurant | 2                    | RETEL FLUORESCENT, 40W, 14.5" X 10.5" RETEL TROPOLE, 40W, 14.5" X 10.5" NATED LIFE: 5-YEAR WARRANTY | 80       | 0.228           | 18.01   | 80.228      | 0.080           | 43.25       | 104.49  | 2                | Test equipment | 30%     | 215,344         | 61.0% |
| 39     | Hrt. Building | Room#11727 - Merv's Restaurant     | 2                    | RETEL FLUORESCENT, 40W, 14.5" X 10.5" RETEL TROPOLE, 40W, 14.5" X 10.5" NATED LIFE: 5-YEAR WARRANTY | 74       | 0.215           | 15.543  | 43          | 0.081           | 48.25       | 106.126 | 2                | Test equipment | 30%     | 61,374          | 61.0% |
| 40     | Hrt. Building | Room#11727 - Merv's Restaurant     | 3                    | RETEL FLUORESCENT, 40W, 14.5" X 10.5" RETEL TROPOLE, 40W, 14.5" X 10.5" NATED LIFE: 5-YEAR WARRANTY | 74       | 0.210           | 14.805  | 17.78       | 0.081           | 49.80       | 105.335 | 2                | Test equipment | 30%     | 509,413         | 61.0% |
| 41     | Hrt. Building | Room#11727 - Merv's Restaurant     | 3                    | RETEL FLUORESCENT, 40W, 14.5" X 10.5" RETEL TROPOLE, 40W, 14.5" X 10.5" NATED LIFE: 5-YEAR WARRANTY | 69       | 0.209           | 14.801  | 17.78       | 0.081           | 49.80       | 105.335 | 2                | Test equipment | 30%     | 519,072         | 61.0% |
| 42     | Hrt. Building | Room#11727 - Merv's Restaurant     | 3                    | RETEL FLUORESCENT, 40W, 14.5" X 10.5" RETEL TROPOLE, 40W, 14.5" X 10.5" NATED LIFE: 5-YEAR WARRANTY | 69       | 0.208           | 14.801  | 17.78       | 0.081           | 49.80       | 105.335 | 2                | Test equipment | 30%     | 519,072         | 61.0% |
| 43     | Hrt. Building | Room#11727 - Merv's Restaurant     | 3                    | RETEL FLUORESCENT, 40W, 14.5" X 10.5" RETEL TROPOLE, 40W, 14.5" X 10.5" NATED LIFE: 5-YEAR WARRANTY | 69       | 0.207           | 14.801  | 17.78       | 0.081           | 49.80       | 105.335 | 2                | Test equipment | 30%     | 519,072         | 61.0% |
| 44     | Hrt. Building | Recreation Building                | 3x18                 | 45,382  | 3,630.00 | 66,198          | 31,152  | 68,267      | 31,152          | 11,873      | 4,628   | 41.6%            | 1,695,361.65   |         |                 |       |
| 45     | Hrt. Building | Recreation Building                | 3x18                 | 45,382  | 3,630.00 | 66,198          | 31,152  | 68,267      | 31,152          | 11,873      | 4,628   | 41.6%            | 1,695,361.65   |         |                 |       |
| 46     | Hrt. Building | Recreation Building                | 3x18                 | 45,382  | 3,630.00 | 66,198          | 31,152  | 68,267      | 31,152          | 11,873      | 4,628   | 41.6%            | 1,695,361.65   |         |                 |       |
| 47     | Hrt. Building | Recreation Building                | 3x18                 | 45,382  | 3,630.00 | 66,198          | 31,152  | 68,267      | 31,152          | 11,873      | 4,628   | 41.6%            | 1,695,361.65   |         |                 |       |
| 48     | Hrt. Building | Recreation Building                | 3x18                 | 45,382  | 3,630.00 | 66,198          | 31,152  | 68,267      | 31,152          | 11,873      | 4,628   | 41.6%            | 1,695,361.65   |         |                 |       |



| SYSTEM INFORMATION |               |  |   |     | EXISTING SYSTEM   |     |            |         |         | PROPOSED SYSTEM |            |          |         |           |          |   |       | SAVINGS           |             |             |
|--------------------|---------------|--|---|-----|---|-----|------------|---------|---------|-----------------|------------|----------|---------|-----------|----------|---|-------|-------------------|-------------|-------------|
| Ref #              | BUILDING      | LOCATION   | EXISTING FIXTURE  | OTK | NEW FIXTURE/RETROFIT  | OTK | WATTS EACH | TOTAL W | OF HOUR | TOTAL kWh       | WATTS EACH | TOTAL kW | DP HOUR | TOTAL kWh | SEN. QTY | CONTROL DESCRIPTION   | OFF % | SENS. kWh SAVINGS | PER REDUCED | KWH REDUCED |
| 55                 | Rec. Building | Recreation Building, Room 109 - Women's Restroom | Grid-Treffer, 2' x 4', 2x F34T12, 34W, Mag 15 Ballast, 120/277V, Promethean Lumen, Emergency Backup | 1   | RETRO. FLUORESCENT, 45W, 1P BALLAST, 2X 4 TUBE, WHITE, 300 DEGREE, 4000K, 120-277V, 20000 HOUR RATED LIFE, 5YEAR WARRANTY |     | 71         | 0.074   | 8760    | 548.24          | 43         | 0.045    | 8705    | 376.78    | 1        | Tied in with sensor on another line   | 32%   | 111.004           | 0.031       | 35%         |
| 56                 | Rec. Building | Recreation Building, Room 100 - Men's Restroom   | Grid-Treffer, 2' x 4', 2x F34T12, 34W, Mag 15 Ballast, 120/277V                                     | 1   | RETRO. FLUORESCENT, 45W, 1P BALLAST, 2X 4 TUBE, WHITE, 300 DEGREE, 4000K, 120-277V, 20000 HOUR RATED LIFE, 5YEAR WARRANTY |     | 71         | 0.073   | 8760    | 1050.92         | 43         | 0.039    | 8705    | 616.94    | 1        | Center Mount, Occupied Load Standard Range, 2-15 Amps AC, 120-277V, Radar Coverage, Line Voltage 120/277V | 30%   | 185.962           | 0.003       | 63%         |
| 57                 | Rec. Building | Recreation Building, Room 106 - Men's Restroom   | Grid-Treffer, 2' x 4', 2x F34T12, 34W, Mag 15 Ballast, 120/277V, Promethean Lumen, Emergency Backup | 1   | RETRO. FLUORESCENT, 45W, 1P BALLAST, 2X 4 TUBE, WHITE, 300 DEGREE, 4000K, 120-277V, 20000 HOUR RATED LIFE, 5YEAR WARRANTY |     | 71         | 0.074   | 8760    | 489.23          | 43         | 0.045    | 8705    | 376.78    | 1        | Tied in with sensor on another line   | 31%   | 111.004           | 0.031       | 36%         |
| 58                 | Rec. Building | Recreation Building, Room 105 - Classroom        | Grid-Treffer, 2' x 4', 2x F34T12, 34W, Mag 15 Ballast, 120/277V, Promethean Lumen                   | 8   | RETRO. FLUORESCENT, 45W, 1P BALLAST, 2X 4 TUBE, WHITE, 300 DEGREE, 4000K, 120-277V, 20000 HOUR RATED LIFE, 5YEAR WARRANTY |     | 576        | 0.048   | 3705    | 3897.58         | 43         | 0.028    | 3705    | 1274.52   | 8        |   | 0%    | 0                 | 0.000       | 1.203       |
| 59                 | Rec. Building | Recreation Building, Room 105 - Classroom        | Grid-Treffer, 2' x 4', 2x F34T12, 34W, Mag 15 Ballast, 120/277V, Promethean Lumen, Emergency Backup | 1   | RETRO. FLUORESCENT, 45W, 1P BALLAST, 2X 4 TUBE, WHITE, 300 DEGREE, 4000K, 120-277V, 20000 HOUR RATED LIFE, 5YEAR WARRANTY |     | 576        | 0.048   | 3705    | 1053.62         | 43         | 0.028    | 3705    | 376.98    | 1        |   | 0%    | 0                 | 0.000       | 657         |
| 60                 | Rec. Building | Recreation Building, Room 105 - Classroom        | Grid-Treffer, 2' x 4', 2x F34T12, 34W, Mag 15 Ballast, 120/277V                                     | 1   | RETRO. FLUORESCENT, 45W, 1P BALLAST, 2X 4 TUBE, WHITE, 300 DEGREE, 4000K, 120-277V, 20000 HOUR RATED LIFE, 5YEAR WARRANTY |     | 576        | 0.048   | 3705    | 548.34          | 43         | 0.028    | 3705    | 210.63    | 1        |   | 0%    | 0                 | 0.000       | 210         |
| 61                 | Rec. Building | Recreation Building, Room 105 - Classroom        | Grid-Treffer, 2' x 4', 2x F34T12, 34W, Mag 15 Ballast, 120/277V included in project                 | 3   | AMP, Not included in project  |     | 0          | 0.002   | 1       | 0               | 0          | 0.000    | 1       | 0         | 0        |   | 0%    | 0                 | 0.000       | 0           |
| 62                 | Rec. Building | Recreation Building, Room 102 - Classroom        | Grid-Treffer, 2' x 4', 2x F34T12, 34W, Mag 15 Ballast, 120/277V, Promethean Lumen                   | 6   | RETRO. FLUORESCENT, 45W, 1P BALLAST, 2X 4 TUBE, WHITE, 300 DEGREE, 4000K, 120-277V, 20000 HOUR RATED LIFE, 5YEAR WARRANTY |     | 348        | 0.044   | 3705    | 3497.52         | 43         | 0.024    | 3705    | 1274.52   | 6        |   | 0%    | 0                 | 0.000       | 2.221       |
| 63                 | Rec. Building | Recreation Building, Room 102 - Classroom        | Grid-Treffer, 2' x 4', 2x F34T12, 34W, Mag 15 Ballast, 120/277V, Promethean Lumen, Emergency Backup | 1   | RETRO. FLUORESCENT, 45W, 1P BALLAST, 2X 4 TUBE, WHITE, 300 DEGREE, 4000K, 120-277V, 20000 HOUR RATED LIFE, 5YEAR WARRANTY |     | 348        | 0.048   | 3705    | 1053.62         | 43         | 0.028    | 3705    | 376.98    | 1        |   | 0%    | 0                 | 0.000       | 657         |

| SYSTEM INFORMATION |              |  |  |     | EXISTING SYSTEM  |  |            |          |          | PROPOSED SYSTEM |            |          |          |           |           |                     | SAVINGS |                   |            |             |
|--------------------|--------------|--|--|-----|--|--|------------|----------|----------|-----------------|------------|----------|----------|-----------|-----------|---------------------|---------|-------------------|------------|-------------|
| Ref #              | BUILDING     | LOCATION   | EXISTING FIXTURE   | QTY | NEW FIXTURE/RETROFIT   |  | WATTS EACH | TOTAL KW | OP. HOUR | TOTAL KWH       | WATTS EACH | TOTAL KW | OP. HOUR | TOTAL KWH | SEN. CITY | CONTROL DESCRIPTION | GRT %   | SENS. KWH SAVINGS | KW Reduced | KWh Reduced |
| 34                 | Rec Building | Recreation Building, Room 102 - Classroom          | Two Fixtures or Space Not Indicated in Project   | 1   | DUP. Not included in project   |  | 0          | 0.000    | 1        | 0               | 0          | 0.000    | 1        | 0         | 0         |                     | 0%      | 0                 | 0.000      | 0           |
| 35                 | Rec Building | Recreation Building, Playroom - Indoor, Playground | Grid Trolley, 2' x 4', 54 F54T12, (24W), Avg. 15 Ballast, 120/277V, Premium Lumen, Emergency Ballast | 1   | RETRO, FLUORESCENT, 45W, LP BALLAST, 2X4 TUBE, WHITE, 5000K, WIRE, 120-277V, 2000-HOUR RATED LIFE, 5-YEAR WARRANTY |  | 125        | 0.744    | 8760     | 631056          | 45         | 0.344    | 4800     | 187200    | 0         |                     | 0%      | 0                 | 0.880      | 2.394       |
| 36                 | Rec Building | Recreation Building, Playroom - Indoor, Playground | Grid Trolley, 2' x 4', 54 F54T12, (24W), Avg. 15 Ballast, 120/277V, Premium Lumen, Emergency Ballast | 1   | RETRO, FLUORESCENT, 45W, LP BALLAST, 2X4 TUBE, WHITE, 5000K, WIRE, 120-277V, 2000-HOUR RATED LIFE, 5-YEAR WARRANTY |  | 125        | 0.748    | 8760     | 631056          | 45         | 0.342    | 4760     | 187080    | 0         |                     | 0%      | 0                 | 0.875      | 2.377       |
| 37                 | Rec Building | Recreation Building, Room 120 - Classroom          | Grid Trolley, 2' x 4', 54 F54T12, (24W), Avg. 15 Ballast, 120/277V, Premium Lumen                    | 1   | RETRO, FLUORESCENT, 45W, LP BALLAST, 2X4 TUBE, WHITE, 5000K, WIRE, 120-277V, 2000-HOUR RATED LIFE, 5-YEAR WARRANTY |  | 125        | 0.744    | 3700     | 269752          | 45         | 0.344    | 3700     | 139920    | 0         |                     | 0%      | 0                 | 0.880      | 2.227       |
| 38                 | Rec Building | Recreation Building, Room 124 - Classroom          | Grid Trolley, 2' x 4', 54 F54T12, (24W), Avg. 15 Ballast, 120/277V, Premium Lumen, Emergency Ballast | 1   | RETRO, FLUORESCENT, 45W, LP BALLAST, 2X4 TUBE, WHITE, 5000K, WIRE, 120-277V, 2000-HOUR RATED LIFE, 5-YEAR WARRANTY |  | 125        | 0.748    | 8760     | 631056          | 45         | 0.341    | 8760     | 328880    | 0         |                     | 0%      | 0                 | 0.879      | 2.67        |
| 39                 | Rec Building | Recreation Building, Room 124 - Classroom          | 16-in HPS Fixture, 2' x 4', 24 F54T12, (36W), Avg. 15 Ballast, 120/277V                              | 1   | RETRO, FLUORESCENT, 45W, LP BALLAST, 2X4 TUBE, WHITE, 5000K, WIRE, 120-277V, 2000-HOUR RATED LIFE, 5-YEAR WARRANTY |  | 75         | 0.648    | 13056    | 549752          | 45         | 0.348    | 13056    | 519680    | 0         |                     | 0%      | 0                 | 0.879      | 2.66        |
| 40                 | Rec Building | Recreation Building, Room 124 - Classroom          | Two Fixtures or Space Not Indicated in Project   | 2   | DUP. Not included in project   |  | 0          | 0.000    | 1        | 0               | 0          | 0.000    | 1        | 0         | 0         |                     | 0%      | 0                 | 0.000      | 0           |
| 41                 | Rec Building | Recreation Building, Room 127 - Classroom          | Grid Trolley, 2' x 4', 54 F54T12, (24W), Avg. 15 Ballast, 120/277V, Premium Lumen                    | 1   | RETRO, FLUORESCENT, 45W, LP BALLAST, 2X4 TUBE, WHITE, 5000K, WIRE, 120-277V, 2000-HOUR RATED LIFE, 5-YEAR WARRANTY |  | 125        | 0.744    | 3700     | 269752          | 45         | 0.344    | 3700     | 127952    | 0         |                     | 0%      | 0                 | 0.860      | 2.223       |
| 42                 | Rec Building | Recreation Building, Room 127 - Classroom          | Grid Trolley, 2' x 4', 54 F54T12, (24W), Avg. 15 Ballast, 120/277V, Premium Lumen, Emergency Ballast | 1   | RETRO, FLUORESCENT, 45W, LP BALLAST, 2X4 TUBE, WHITE, 5000K, WIRE, 120-277V, 2000-HOUR RATED LIFE, 5-YEAR WARRANTY |  | 125        | 0.748    | 8760     | 631056          | 45         | 0.342    | 8760     | 519680    | 0         |                     | 0%      | 0                 | 0.875      | 2.67        |

| SYSTEM INFORMATION |               |  |  |     | EXISTING SYSTEM  |            |          |          |           | PROPOSED SYSTEM |          |          |           |           | SAVINGS             |       |                  |            |             |
|--------------------|---------------|--|--|-----|--|------------|----------|----------|-----------|-----------------|----------|----------|-----------|-----------|---------------------|-------|------------------|------------|-------------|
| Ref. #             | BUILDING      | LOCATION   | EXISTING FIXTURE   | QTY | NEW FIXTURE/RETROFIT   | WATTS EACH | TOTAL KW | OP. HOUR | TOTAL KWH | WATTS EACH      | TOTAL KW | OP. HOUR | TOTAL KWH | SEN. CITY | CONTROL DESCRIPTION | OFF % | SEN. KWH SAVINGS | KW Reduced | KWH Reduced |
| 73                 | Rec. Building | Recreation Building, Room 217 - Classroom              | Six, Fluorescent Space Not Included In Project   | 1   | Six, Not included in project   | 0          | 0.000    | 1        | 0         | 0               | 0.000    | 1        | 0         | c         |                     | 0%    | 0                | 0.000      | 0           |
| 74                 | Rec. Building | Recreation Building, Room 102 - Lobby                  | Six, Fluorescent Space Not Included In Project   | 6   | Six, Not included in project   | 0          | 0.000    | 1        | 0         | 0               | 0.000    | 4        | 0         | c         |                     | 0%    | 0                | 0.000      | 0           |
| 75                 | Rec. Building | Recreation Building, Room 101 - Lobby (East Vestibule) | Six, Fluorescent Space Not Included In Project   | 1   | Six, Not included in project   | 0          | 0.000    | 1        | 0         | 0               | 0.000    | 1        | 0         | d         |                     | 0%    | 0                | 0.000      | 0           |
| 76                 | Rec. Building | Recreation Building, Room 103 - Lobby                  | Six, Ship Fiture, T-12, 2x 14812/HPS, NW, Long Life Ballast, 12000 Hrs                   | 24  | RETRO. FLUORESCENT, 12W, STANDARD T12, 2x 15 TUBE, WHITE, JNO 015486, 4000K, 120-147V, 36000 HOUR RATED LIFE, 3-YEAR WARRANTY                              | 240        | 1.436    | 486      | 16600.506 | 122             | 1.304    | 465      | 13956.624 | c         |                     | 0%    | 0                | 0.532      | 253         |
| 77                 | Rec. Building | Recreation Building, West End - Classrooms             | Six, Fluorescent Space Not Included In Project   | 30  | Six, Not included in project   | 0          | 0.000    | 1        | 0         | 0               | 0.000    | 1        | 0         | c         |                     | 0%    | 0                | 0.000      | 0           |
| 78                 | Rec. Building | Recreation Building, West End - Classrooms             | One, Troffer, 2 x 2, 2x F34T12, UGR 12.000 (24W), May 10 2017, 120/277V, Promarite Lumen | 36  | RETRO. FLUORESCENT, 24W, LP BALLAST, 2x 3 TUBE, TROFFER RETROFIT KIT, WHITE REFLECTOR, 350 DEGREE, 8000K, 120-277V, 20000 HOUR RATED LIFE, 3-YEAR WARRANTY | 36         | 2.220    | 375      | 8225.1    | 24              | 1.020    | 370      | 3779.1    | c         |                     | 0%    | 0                | 3.200      | 4-AE        |
| 79                 | Rec. Building | Recreation Building, West End - Classrooms             | Six, Fluorescent Space Not Included In Project   | 30  | Six, Not included in project   | 0          | 0.000    | 1        | 0         | 0               | 0.000    | 1        | 0         | d         |                     | 0%    | 0                | 0.000      | 0           |
| 80                 | Rec. Building | Recreation Building, West End - Corridor               | Six, Fluorescent Space Not Included In Project   | 9   | Six, Not included in project   | 0          | 0.000    | 1        | 0         | 0               | 0.000    | 1        | 0         | a         |                     | 0%    | 0                | 0.000      | 0           |
| 81                 | Rec. Building | Recreation Building, West End - Scenar                 | Six, Fluorescent Space Not Included In Project   | 2   | Six, Not included in project   | 0          | 0.000    | 1        | 0         | 0               | 0.000    | 1        | 0         | a         |                     | 0%    | 0                | 0.000      | 0           |

| Ref. No. | BUILDING      | EXISTING SYSTEM                                 |   |    |   |    |             |            | PROPOSED SYSTEM |             |            |       |             |            |    | SAVINGS    |             |         |
|----------|---------------|---|---|----|---|----|-------------|------------|-----------------|-------------|------------|-------|-------------|------------|----|------------|-------------|---------|
|          |               | LOCATION  | EXISTING PICTURE  | GT | NEW PICTURE PICTURE   | GT | WATTS TOTAL | WATTS EACH | HOUR            | TOTAL WATTS | WATTS EACH | GT    | WATTS TOTAL | WATTS EACH | GT | SENS. BAND | KWH REDUCED | PERCENT |
| 12       | Rec. Building | Recreation Building - Gymnasium Track           | Existing Usual Picture: 45% Light Level, 25% Light Loss<br>Emergency Light    | 5  | Existing Usual Picture: New Light Level at a 10%<br>White Percentage, 20% Emergency<br>Reduced Light, 25% Emergency | 5  | 148         | 1.124      | 40.8            | 5700.240    | 85         | 2016  | 148.52      | 0          | D  | 0.005      | 2,724       |         |
| 13       | Rec. Building | Recreation Building - Gymnasium Track           | Standard Usual Picture: 45%<br>Light Level, 25% Light Loss<br>Emergency Light | 5  | Existing Usual Picture: New Light Level at a 10%<br>White Percentage, 20% Emergency<br>Reduced Light, 25% Emergency | 5  | 148         | 0.093      | 43%             | 7798.43     | 85         | 0.145 | 451.95      | 0          | D  | 0.005      | 1,753       |         |
| 14       | Rec. Building | Recreation Building - Gymnasium Gym<br>Lighting | Existing Usual Picture: 5% Light<br>Level, 25% Emergency Light                | 5  | Existing Usual Picture: New Light Level at a 10%<br>White Percentage, 20% Emergency<br>Reduced Light, 25% Emergency | 5  | 68          | 0.551      | 40              | 1051.512    | 40         | 0.125 | 135.50      | 0          | D  | 0.005      | 1,115       |         |
| 15       | Rec. Building | Recreation Building - Gymnasium Gym<br>Lighting | Existing Usual Picture: 5% Light<br>Level, 25% Emergency Light                | 5  | Existing Usual Picture: New Light Level at a 10%<br>White Percentage, 20% Emergency<br>Reduced Light, 25% Emergency | 5  | 68          | 0.130      | 3.5%            | 1,210.08    | 40         | 0.148 | 170.16      | 0          | D  | 0.005      | 1,012       |         |
| 16       | Rec. Building | Recreation Building - Gymnasium Gym<br>Lighting | Existing Usual Picture: 5% Light<br>Level, 25% Emergency Light                | 5  | Existing Usual Picture: New Light Level at a 10%<br>White Percentage, 20% Emergency<br>Reduced Light, 25% Emergency | 5  | 68          | 0.712      | 40              | 1069.152    | 40         | 0.120 | 133.12      | 0          | D  | 0.005      | 943         |         |
| 17       | Rec. Building | Recreation Building - Gymnasium Gym<br>Lighting | Existing Usual Picture: 5% Light<br>Level, 25% Emergency Light                | 5  | Existing Usual Picture: New Light Level at a 10%<br>White Percentage, 20% Emergency<br>Reduced Light, 25% Emergency | 5  | 68          | 0.812      | 40              | 1070.08     | 40         | 0.120 | 133.12      | 0          | D  | 0.005      | 943         |         |
| 18       | Rec. Building | Recreation Building - Gymnasium Gym<br>Lighting | Existing Usual Picture: 5% Light<br>Level, 25% Emergency Light                | 5  | Existing Usual Picture: New Light Level at a 10%<br>White Percentage, 20% Emergency<br>Reduced Light, 25% Emergency | 5  | 68          | 0.812      | 40              | 1070.08     | 40         | 0.120 | 133.12      | 0          | D  | 0.005      | 943         |         |
| 19       | Rec. Building | Recreation Building - Gymnasium Gym<br>Lighting | Existing Usual Picture: 5% Light<br>Level, 25% Emergency Light                | 5  | Existing Usual Picture: New Light Level at a 10%<br>White Percentage, 20% Emergency<br>Reduced Light, 25% Emergency | 5  | 68          | 0.812      | 40              | 1070.08     | 40         | 0.120 | 133.12      | 0          | D  | 0.005      | 943         |         |
| 20       | Rec. Building | Recreation Building - Gymnasium Gym<br>Lighting | Existing Usual Picture: 5% Light<br>Level, 25% Emergency Light                | 5  | Existing Usual Picture: New Light Level at a 10%<br>White Percentage, 20% Emergency<br>Reduced Light, 25% Emergency | 5  | 68          | 0.812      | 40              | 1070.08     | 40         | 0.120 | 133.12      | 0          | D  | 0.005      | 943         |         |

| SYSTEM INFORMATION |               |   |   |     |  | EXISTING SYSTEM |          |          |           | PROPOSED SYSTEM |          |          |           |          |                     | SAVINGS |                   |            |             |   |
|--------------------|---------------|---|---|-----|--|-----------------|----------|----------|-----------|-----------------|----------|----------|-----------|----------|---------------------|---------|-------------------|------------|-------------|---|
| Ref #              | BUILDING      | LOCATION  | EXISTING FIXTURE  | QTY | NEW FIXTURE/RETROFIT   | WATTS EACH      | TOTAL KW | OP. HOUR | TOTAL kWh | WATTS EACH      | TOTAL KW | OP. HOUR | TOTAL kWh | SEN. QTY | CONTROL DESCRIPTION | OFF %   | SENS. KWH SAVINGS | kW Reduct. | kWh Reduced |   |
| 91                 | Rec. Building | Recreation Building- Outdoor                    | Rep. Fixture or Spare Not Included in Project   | 1   | N/A, Not included in project   | 0               | 0.000    | 1        | 0         | 0               | 0.000    | 1        | 0         | 0        |                     |         | 0%                | 0          | \$0.00      | 0 |
| 92                 | Rec. Building | Recreation Building- Outdoor                    | Rep. Fixture or Spare Not Included in Project   | 5   | N/A, Not included in project   | 0               | 0.000    | 1        | 0         | 0               | 0.000    | 1        | 0         | 0        |                     |         | 0%                | 0          | \$0.00      | 0 |
| 93                 | Rec. Building | Recreation Building- Lake Level Outdoor         | Shr. fixture or Spare Not Included in Project   | 21  | N/A, Not included in project   | 0               | 0.000    | 1        | 0         | 0               | 0.000    | 1        | 0         | 0        |                     |         | 0%                | 0          | \$0.00      | 0 |
| 94                 | Civic Center  | Civic Center, Room 103 - Exhibition Hall        | 1x1x3 fluorescent 12'x5'x3' (30752, 34W, Mag ES Ballast, 120/277V)                            | 50  | RETRO, FLUORESCENT, 40W, LF BALLAST, 18.2 TUBE, WHITE, 360 DEGREE, 4000K, 120-277V, 20000 HOUR RATED LIFE, 3-YEAR WARRANTY | 0.8             | 0.150    | 2340     | 1014.6    | 40              | 0.450    | 2340     | 910       | 0        |                     | 0%      | 0                 | \$290      | 579         |   |
| 95                 | Civic Center  | Civic Center, Room 103 - Exhibition Hall        | 1x1x3 fluorescent 12'x4'x3' (30752, 34W, Mag ES Ballast, 120/277V)                            | 80  | RETRO, FLUORESCENT, 45W, LF BALLAST, 18.4 TUBE, WHITE, 360 DEGREE, 4000K, 120-277V, 20000 HOUR RATED LIFE, 3-YEAR WARRANTY | 1.6             | 0.180    | 3360     | 1463.2    | 40              | 0.600    | 3360     | 1013.4    | 0        |                     | 0%      | 0                 | \$620      | 1251        |   |
| 96                 | Civic Center  | Civic Center, Room 103 - Exhibition Hall (Over) | Shr. fixture or Spare Not Included in Project   | 52  | N/A, Not included in project   | 0               | 0.000    | 2        | 0         | 0               | 0.000    | 1        | 0         | 0        |                     |         | 0%                | 0          | \$0.00      | 0 |
| 97                 | Civic Center  | Civic Center, Room 103 - Electrical Closet      | Industrial Hooded Fixture, 1' x 4', RETRASER, 34W, Mag ES Ballast, 120/277V                   | 1   | RETRO, FLUORESCENT, 40W, LF BALLAST, 18.4 TUBE, WHITE, 360 DEGREE, 4000K, 120-277V, 20000 HOUR RATED LIFE, 3-YEAR WARRANTY | 0.8             | 0.070    | 2320     | 1011.6    | 40              | 0.140    | 2320     | 1004.2    | 0        |                     | 0%      | 0                 | \$131      | 221         |   |
| 98                 | Civic Center  | Civic Center, Room 103 - Electrical Closet      | Industrial Hooded Fixture, 1' x 4', RETRASER, 34W, Mag ES Ballast, 120/277V, Emergency Relief | 1   | RETRO, FLUORESCENT, 45W, LF BALLAST, 18.4 TUBE, WHITE, 360 DEGREE, 4000K, 120-277V, 20000 HOUR RATED LIFE, 3-YEAR WARRANTY | 1.6             | 0.070    | 2320     | 1011.6    | 40              | 0.140    | 2320     | 1004.2    | 0        |                     | 0%      | 0                 | \$131      | 221         |   |
| 99                 | Civic Center  | Civic Center, Room 120 - Storage Closet         | Industrial Hooded Fixture, 1' x 4', RETRASER, 34W, Mag ES Ballast, 120/277V                   | 2   | RETRO, FLUORESCENT, 45W, LF BALLAST, 18.4 TUBE, WHITE, 360 DEGREE, 4000K, 120-277V, 20000 HOUR RATED LIFE, 3-YEAR WARRANTY | 1.6             | 0.108    | 360      | 158.40    | 40              | 0.498    | 360      | 67.08     | 0        |                     | 0%      | 0                 | \$90       | 38          |   |





| Facility | Building     | System Information                              |  |            |   | Existing System |            |            |            |             |       | Proposed System |      |        |         |        |         | Savings |
|----------|--------------|---|--|------------|---|-----------------|------------|------------|------------|-------------|-------|-----------------|------|--------|---------|--------|---------|---------|
|          |              | Location  | Existing Fixture   | OTW        | Watts   | Total           | OF         | Total      | GPH        | Total       | GPH   | Contractual     | Off  | Sens.  | KWH     | Annual | Reduced |         |
|          |              |   | WATTS/HOUR   | WATTS/HOUR | WATTS/HOUR  | WATTS/HOUR      | WATTS/HOUR | WATTS/HOUR | WATTS/HOUR | DESCRIPTION | OFF   | SENS.           | KWH  | Annual | Reduced |        |         |         |
| 118      | Civic Center | Civic Center, Room 115<br>- Kitchen/Coffee Room | Incandescent, 40W, Day<br>120V, 1500W, 1000Hr                    | 10         | WATT FLUORESCENT, 40W (P) BULB, 120V, 1500Hr<br>WATT URE, 3-YEAR WARRANTY | 34              | 0.740      | 2340       | 1718       | 45          | 0.490 | 1200            | 1000 | 0%     | 0       | 0      | 725     |         |
| 119      | Civic Center | Civic Center, Room 115<br>- Mechanical Room     | Incandescent, 40W, Day<br>120V, 1500W, 1000Hr<br>Mechanical Room | 2          | WATT FLUORESCENT, 40W (P) BULB, 120V, 1500Hr<br>WATT URE, 3-YEAR WARRANTY | 34              | 0.740      | 750        | 525        | 45          | 0.490 | 200             | 100  | 0%     | 0       | 0      | 543     |         |
| 120      | Civic Center | Civic Center, Room 115<br>- Conference Room     | Incandescent, 40W, Day<br>120V, 1500W, 1000Hr                    | 1          | WATT FLUORESCENT, 40W (P) BULB, 120V, 1500Hr<br>WATT URE, 3-YEAR WARRANTY | 34              | 0.740      | 1          | 0          | 0           | 0.000 | 0               | 0    | 0%     | 0       | 0      | 0       |         |
| 121      | Civic Center | Civic Center, Room 115<br>- Conference Room     | Incandescent, 40W, Day<br>120V, 1500W, 1000Hr                    | 1          | WATT FLUORESCENT, 40W (P) BULB, 120V, 1500Hr<br>WATT URE, 3-YEAR WARRANTY | 34              | 0.740      | 1          | 0          | 0           | 0.000 | 0               | 0    | 0%     | 0       | 0      | 0       |         |
| 122      | Civic Center | Civic Center, Room 115<br>- Conference Room     | Incandescent, 40W, Day<br>120V, 1500W, 1000Hr                    | 1          | WATT FLUORESCENT, 40W (P) BULB, 120V, 1500Hr<br>WATT URE, 3-YEAR WARRANTY | 34              | 0.740      | 1          | 0          | 0           | 0.000 | 0               | 0    | 0%     | 0       | 0      | 0       |         |
| 123      | Civic Center | Civic Center, Room 115<br>- Private Office      | Incandescent, 40W, Day<br>120V, 1500W, 1000Hr                    | 1          | WATT FLUORESCENT, 40W (P) BULB, 120V, 1500Hr<br>WATT URE, 3-YEAR WARRANTY | 34              | 0.740      | 1          | 0          | 0           | 0.000 | 0               | 0    | 0%     | 0       | 0      | 0       |         |
| 124      | Civic Center | Civic Center, Room 115<br>- Private Office      | Incandescent, 40W, Day<br>120V, 1500W, 1000Hr                    | 1          | WATT FLUORESCENT, 40W (P) BULB, 120V, 1500Hr<br>WATT URE, 3-YEAR WARRANTY | 34              | 0.740      | 1          | 0          | 0           | 0.000 | 0               | 0    | 0%     | 0       | 0      | 0       |         |
| 125      | Civic Center | Civic Center, Room 115<br>- Kitchen             | Incandescent, 40W, Day<br>120V, 1500W, 1000Hr                    | 2          | WATT FLUORESCENT, 40W (P) BULB, 120V, 1500Hr<br>WATT URE, 3-YEAR WARRANTY | 68              | 0.740      | 552        | 414        | 45          | 0.490 | 200             | 100  | 0%     | 0       | 0      | 338     |         |
| 126      | Civic Center | Civic Center, Room 117<br>- Main's Restroom     | Incandescent, 40W, Day<br>120V, 1500W, 1000Hr                    | 2          | WATT FLUORESCENT, 40W (P) BULB, 120V, 1500Hr<br>WATT URE, 3-YEAR WARRANTY | 68              | 0.740      | 552        | 414        | 45          | 0.490 | 200             | 100  | 0%     | 0       | 0      | 338     |         |
| 127      | Civic Center | Civic Center, Room 117<br>- Main's Restroom     | Incandescent, 40W, Day<br>120V, 1500W, 1000Hr                    | 2          | WATT FLUORESCENT, 40W (P) BULB, 120V, 1500Hr<br>WATT URE, 3-YEAR WARRANTY | 68              | 0.740      | 552        | 414        | 45          | 0.490 | 200             | 100  | 0%     | 0       | 0      | 338     |         |
| 128      | Civic Center | Civic Center, Room 117<br>- Main's Restroom     | Incandescent, 40W, Day<br>120V, 1500W, 1000Hr                    | 2          | WATT FLUORESCENT, 40W (P) BULB, 120V, 1500Hr<br>WATT URE, 3-YEAR WARRANTY | 68              | 0.740      | 552        | 414        | 45          | 0.490 | 200             | 100  | 0%     | 0       | 0      | 338     |         |

| SYSTEM INFORMATION |              |   |   |     |  | EXISTING SYSTEM |          |          |           | PROPOSED SYSTEM |          |          |           |          |   | SAVINGS |                   |            |            |   |
|--------------------|--------------|---|---|-----|--|-----------------|----------|----------|-----------|-----------------|----------|----------|-----------|----------|---|---------|-------------------|------------|------------|---|
| #                  | BUILDING     | LOCATION                                  | EXISTING FIXTURE  | QTY | NEW FIXTURE/RETROFIT   | WATTS EACH      | TOTAL KW | OP. HOUR | TOTAL KWH | WATTS EACH      | TOTAL KW | OP. HOUR | TOTAL KWH | SEN. QTY | CONTROL DESCRIPTION   | OFF %   | SENS. KWH SAVINGS | RW Reduced | RW Reduced |   |
| 127                | Civic Center | Civic Center, Room 117 - Men's Restroom   | Gen Tech Fixture, U x R, 2x F34T12, 30W, 155555555555, 120/277V                               | 2   | RETRO. FLUORESCENT, 40W, 12 BALAST, 2X TUBE, WHITE, 360 DEGREE, 3000K, 120-277V, 20000 HOUR RATED LIFE, 5 YEAR WARRANTY                                  | 80              | 0.158    | 1340     | 321.92    | 40              | 0.080    | 1040     | 267.2     | 2        | Tied in with sensor on another line   | 20%     | 55.15             | 0.008      | 10%        |   |
| 128                | Civic Center | Civic Center, Room 117 - Women's Restroom | Gen Tech Fixture, U x R, 2x F34T12, 30W, 155555555555, 120/277V, 30000 Hour Emergency Ballast | 2   | RETRO. FLUORESCENT, 40W, 12 BALAST, 2X TUBE, WHITE, 360 DEGREE, 3000K, 120-277V, 20000 HOUR RATED LIFE, 5 YEAR WARRANTY                                  | 74              | 0.074    | 930      | 561.39    | 43              | 0.043    | 870      | 206.68    | 2        | Ceiling Mount, Pass-through, Standard Range # 15 Arm High, 30ft, Recessed Coverage, Low Voltage, 1000 ft² | 30%     | 35.304            | 0.011      | 20%        |   |
| 129                | Civic Center | Civic Center, Room 116 - Women's Restroom | Gen Tech Fixture, U x R, 2x F34T12, 30W, 155555555555, 120/277V                               | 2   | RETRO. FLUORESCENT, 40W, 12 BALAST, 2X TUBE, WHITE, 360 DEGREE, 3000K, 120-277V, 20000 HOUR RATED LIFE, 5 YEAR WARRANTY                                  | 74              | 0.072    | 930      | 515.48    | 43              | 0.049    | 1340     | 301.86    | 2        | Tied in with sensor on another line   | 20%     | 40.528            | 0.009      | 10%        |   |
| 130                | Civic Center | Civic Center, Room 116 - Women's Restroom | Gen Tech Fixture, U x R, 2x F34T12, 30W, 155555555555, 120/277V                               | 2   | RETRO. FLUORESCENT, 40W, 12 BALAST, 2X TUBE, WHITE, 360 DEGREE, 3000K, 120-277V, 20000 HOUR RATED LIFE, 5 YEAR WARRANTY                                  | 80              | 0.158    | 1340     | 321.92    | 40              | 0.080    | 1040     | 267.2     | 2        | Tied in with sensor on another line   | 30%     | 55.15             | 0.008      | 10%        |   |
| 131                | Civic Center | Civic Center - Addition, Meeting Room A   | Grid Tech, U x R, 2x F34T12, 30W, 155555555555, 120/277V, 30000 Hour                          | 20  | RETRO. FLUORESCENT, 40W, 12 BALAST, 2X TUBE, TRIMMER REFLECTOR KIT, WHITE REFLECTOR, 360 DEGREE, 3000K, 120-277V, 20000 HOUR RATED LIFE, 5 YEAR WARRANTY | 138             | 1.960    | 1390     | 626.84    | 43              | 0.400    | 2320     | 501.24    | 2        | Ceiling Mounted, Wide View, Pass-through, Low Voltage, 40' Coverage area                                  | 40%     | 355.456           | 2.100      | 5.793      |   |
| 132                | Civic Center | Civic Center - Addition, Meeting Room B   | Grid Tech, U x R, 2x F34T12, 30W, 155555555555, 120/277V, 30000 Hour                          | 20  | RETRO. FLUORESCENT, 40W, 12 BALAST, 2X TUBE, TRIMMER REFLECTOR KIT, WHITE REFLECTOR, 360 DEGREE, 3000K, 120-277V, 20000 HOUR RATED LIFE, 5 YEAR WARRANTY | 138             | 1.960    | 1390     | 626.84    | 43              | 0.400    | 2320     | 501.24    | 2        | Ceiling Mounted, Wide View, Pass-through, Low Voltage, 40' Coverage area                                  | 40%     | 355.456           | 2.100      | 5.793      |   |
| 133                | Civic Center | Civic Center - Addition, Storage Room     | Gen Tech Fixture, U x R, 2x F34T12, 30W, 155555555555, 120/277V, 30000 Hour                   | 4   | RETRO. FLUORESCENT, 40W, 12 BALAST, 2X TUBE, WHITE, 360 DEGREE, 3000K, 120-277V, 20000 HOUR RATED LIFE, 5 YEAR WARRANTY                                  | 138             | 0.236    | 180      | 320.88    | 26              | 0.172    | 190      | 134.26    | 0        |   | 20%     | 0                 | 0.148      | 0          |   |
| 134                | Civic Center | Civic Center - Addition, Corridor         | Grid Tech or State Net included in fixture  | 5   | TRIP, Not included in fixture  | 0               | 0.000    | 1        | 0         | 0               | 0.000    | 1        | 0         | 0        | 0   |         | 0%                | 0          | 0.000      | 0 |
| 135                | Civic Center | Civic Center - Addition, Men's Restroom   | Grid Tech, U x R, 2x F34T12, 30W, 155555555555, 120/277V, 30000 Hour                          | 4   | RETRO. FLUORESCENT, 40W, 12 BALAST, 2X TUBE, TRIMMER REFLECTOR KIT, WHITE REFLECTOR, 360 DEGREE, 3000K, 120-277V, 20000 HOUR RATED LIFE, 5 YEAR WARRANTY | 138             | 0.148    | 1390     | 546.74    | 43              | 0.098    | 2160     | 490.42    | 0        |   | 0%      | 0                 | 0.114      | 0.006      |   |

| FACILITY NUMBER | LOCATION                                      | EXISTING FIXTURE CITY | SYSTEM INFORMATION |       |       | EXISTING SYSTEM |       |       |       |       |       | PROPOSED SYSTEM |       |      |       |       |       | SAVINGS |      |       |         |
|-----------------|---|-----------------------|--------------------|-------|-------|-----------------|-------|-------|-------|-------|-------|-----------------|-------|------|-------|-------|-------|---------|------|-------|---------|
|                 |   |                       | WATTAGE            | AMPS  | VOLTS | WATTS           | TOTAL | CF    | HOURS | SEAS. | WATTS | TOTAL           | CF    | HOUR | SEAS. | WATTS | TOTAL | CF      | HOUR | SEAS. | PERCENT |
| 120             | Civic Center - Addition, Western Neighborhood | Southwicks, 24x48     | 400                | 10.00 | 120   | 400             | 120   | 0.125 | 1672  | 120   | 0     | 0               | 0.125 | 1672 | 0     | 0     | 0     | 0.125   | 1672 | 40.0% | 1672    |
| 121             | Civic Center                                  | Southwicks, 24x48     | 400                | 10.00 | 120   | 400             | 120   | 0.125 | 1672  | 120   | 0     | 0               | 0.125 | 1672 | 0     | 0     | 0     | 0.125   | 1672 | 40.0% | 1672    |
| 122             | Civic Center - Addition, Kroc Center          | Southwicks, 24x48     | 400                | 10.00 | 120   | 400             | 120   | 0.125 | 1672  | 120   | 0     | 0               | 0.125 | 1672 | 0     | 0     | 0     | 0.125   | 1672 | 40.0% | 1672    |
| 123             | Civic Center                                  | Southwicks, 24x48     | 400                | 10.00 | 120   | 400             | 120   | 0.125 | 1672  | 120   | 0     | 0               | 0.125 | 1672 | 0     | 0     | 0     | 0.125   | 1672 | 40.0% | 1672    |
| 124             | Civic Center - Addition, Kroc Center          | Southwicks, 24x48     | 400                | 10.00 | 120   | 400             | 120   | 0.125 | 1672  | 120   | 0     | 0               | 0.125 | 1672 | 0     | 0     | 0     | 0.125   | 1672 | 40.0% | 1672    |
| 125             | Civic Center                                  | Southwicks, 24x48     | 400                | 10.00 | 120   | 400             | 120   | 0.125 | 1672  | 120   | 0     | 0               | 0.125 | 1672 | 0     | 0     | 0     | 0.125   | 1672 | 40.0% | 1672    |
| 126             | Civic Center - Addition, Kroc Center          | Southwicks, 24x48     | 400                | 10.00 | 120   | 400             | 120   | 0.125 | 1672  | 120   | 0     | 0               | 0.125 | 1672 | 0     | 0     | 0     | 0.125   | 1672 | 40.0% | 1672    |
| 127             | Civic Center                                  | Southwicks, 24x48     | 400                | 10.00 | 120   | 400             | 120   | 0.125 | 1672  | 120   | 0     | 0               | 0.125 | 1672 | 0     | 0     | 0     | 0.125   | 1672 | 40.0% | 1672    |
| 128             | Civic Center - Addition, Kroc Center          | Southwicks, 24x48     | 400                | 10.00 | 120   | 400             | 120   | 0.125 | 1672  | 120   | 0     | 0               | 0.125 | 1672 | 0     | 0     | 0     | 0.125   | 1672 | 40.0% | 1672    |
| 129             | Civic Center                                  | Southwicks, 24x48     | 400                | 10.00 | 120   | 400             | 120   | 0.125 | 1672  | 120   | 0     | 0               | 0.125 | 1672 | 0     | 0     | 0     | 0.125   | 1672 | 40.0% | 1672    |
| 130             | Civic Center - Addition, Kroc Center          | Southwicks, 24x48     | 400                | 10.00 | 120   | 400             | 120   | 0.125 | 1672  | 120   | 0     | 0               | 0.125 | 1672 | 0     | 0     | 0     | 0.125   | 1672 | 40.0% | 1672    |
| 131             | Civic Center                                  | Southwicks, 24x48     | 400                | 10.00 | 120   | 400             | 120   | 0.125 | 1672  | 120   | 0     | 0               | 0.125 | 1672 | 0     | 0     | 0     | 0.125   | 1672 | 40.0% | 1672    |
| 132             | Civic Center - Addition, Kroc Center          | Southwicks, 24x48     | 400                | 10.00 | 120   | 400             | 120   | 0.125 | 1672  | 120   | 0     | 0               | 0.125 | 1672 | 0     | 0     | 0     | 0.125   | 1672 | 40.0% | 1672    |
| 133             | Civic Center                                  | Southwicks, 24x48     | 400                | 10.00 | 120   | 400             | 120   | 0.125 | 1672  | 120   | 0     | 0               | 0.125 | 1672 | 0     | 0     | 0     | 0.125   | 1672 | 40.0% | 1672    |
| 134             | Civic Center - Addition, West Campus          | Southwicks, 24x48     | 400                | 10.00 | 120   | 400             | 120   | 0.125 | 1672  | 120   | 0     | 0               | 0.125 | 1672 | 0     | 0     | 0     | 0.125   | 1672 | 40.0% | 1672    |
| 135             | Civic Center                                  | Southwicks, 24x48     | 400                | 10.00 | 120   | 400             | 120   | 0.125 | 1672  | 120   | 0     | 0               | 0.125 | 1672 | 0     | 0     | 0     | 0.125   | 1672 | 40.0% | 1672    |
| 136             | Civic Center - Addition, West Campus          | Southwicks, 24x48     | 400                | 10.00 | 120   | 400             | 120   | 0.125 | 1672  | 120   | 0     | 0               | 0.125 | 1672 | 0     | 0     | 0     | 0.125   | 1672 | 40.0% | 1672    |
| 137             | Civic Center                                  | Southwicks, 24x48     | 400                | 10.00 | 120   | 400             | 120   | 0.125 | 1672  | 120   | 0     | 0               | 0.125 | 1672 | 0     | 0     | 0     | 0.125   | 1672 | 40.0% | 1672    |
| 138             | Civic Center                                  | Southwicks, 24x48     | 400                | 10.00 | 120   | 400             | 120   | 0.125 | 1672  | 120   | 0     | 0               | 0.125 | 1672 | 0     | 0     | 0     | 0.125   | 1672 | 40.0% | 1672    |
| 139             | Civic Center - Addition, Kroc Center          | Southwicks, 24x48     | 400                | 10.00 | 120   | 400             | 120   | 0.125 | 1672  | 120   | 0     | 0               | 0.125 | 1672 | 0     | 0     | 0     | 0.125   | 1672 | 40.0% | 1672    |
| 140             | Civic Center                                  | Southwicks, 24x48     | 400                | 10.00 | 120   | 400             | 120   | 0.125 | 1672  | 120   | 0     | 0               | 0.125 | 1672 | 0     | 0     | 0     | 0.125   | 1672 | 40.0% | 1672    |

| Ref. # | Building     | Location                                     | System Information   |      |  | Existing System |          |          |           | Proposed System |          |          |           |           |                      | Savings |                   |            |      |
|--------|--------------|--|--|------|--|-----------------|----------|----------|-----------|-----------------|----------|----------|-----------|-----------|----------------------|---------|-------------------|------------|------|
|        |              |  | Existing Fixture   | City | New Fixture/Retrofit   | Watts Each      | Total kW | Op. Hour | Total kWh | Watts Each      | Total kW | Op. Hour | Total kWh | Sen. City | Contract Description | Off %   | Sens. kWh Savings | kW Reduced | Rate |
| 245    | Civic Center | Civic Center, Outdoor                        | Spec. Fixture or Spec Not Included in Project  | 1    | Spec. Not Included in project  | 0               | 0.000    | 1        | 0         | 0               | 0.000    | 1        | 0         | 0         |                      | 0%      | 0                 | 0.000      | 0    |
| 246    | Civic Center | Civic Center, Outdoor                        | Spec. Fixture or Spec Not Included in Project  | 0    | Spec. Not Included in project  | 0               | 0.000    | 1        | 0         | 0               | 0.000    | 1        | 0         | 0         |                      | 0%      | 0                 | 0.000      | 0    |
| 247    | Civic Center | Civic Center, Outdoor                        | Spec. Fixture or Spec Not Included in Project  | 5    | Spec. Not Included in project  | 0               | 0.000    | 1        | 0         | 0               | 0.000    | 1        | 0         | 0         |                      | 0%      | 0                 | 0.000      | 0    |
| 248    | Village Hall | Village Hall - L Room<br>1001 - File Storage | Industrial Hooded fixture, 1' x 4', 240V/120V, 30W, Mag. ES Ballast, 120/277V                    | 8    | RETRO FLUORESCENT, 43W, LP BALAST, 2X 4" TUBE, WHITE, 3000K/EFF, 4000K, 120-277V, 20000-HOUR RATED LIFE, 5-YEAR WARRANTY | 34              | 0.592    | 790      | 16176     | 43              | 0.592    | 790      | 16174     | 0         |                      | 0%      | 0                 | 0.308      | 153  |
| 249    | Village Hall | Village Hall - L Room<br>1001 - File Storage | Industrial Hooded fixture, 1' x 4', 240V/120V, 30W, Mag. ES Ballast, 120/277V, Emergency Ballast | 3    | RETRO FLUORESCENT, 43W, LP BALAST, 2X 4" TUBE, WHITE, 3000K/EFF, 4000K, 120-277V, 20000-HOUR RATED LIFE, 5-YEAR WARRANTY | 21              | 0.222    | 330      | 104472    | 43              | 0.222    | 330      | 104464    | 0         |                      | 0%      | 0                 | 0.055      | 95   |
| 250    | Village Hall | Village Hall - L Room<br>1001 - Lunch Room   | Spec. Fixture or Spec Not Included in Project  | 12   | Spec. Not Included in project  | 0               | 0.000    | 1        | 0         | 0               | 0.000    | 1        | 0         | 0         |                      | 0%      | 0                 | 0.016      | 0    |
| 251    | Village Hall | Village Hall - L Room<br>1001 - Lunch Room   | Spec. Fixture or Spec Not Included in Project  | 5    | Spec. Not Included in project  | 0               | 0.000    | 1        | 0         | 0               | 0.000    | 1        | 0         | 0         |                      | 0%      | 0                 | 0.000      | 0    |
| 252    | Village Hall | Village Hall - L, East<br>Stairwell          | Wall Mount fixture, 1' x 6', 4x10W/12, 20W, Mag. ES Ballast, 120/277V                            | 1    | RETRO FLUORESCENT, 16W, LP BALAST, 2X 3" TUBE, WHITE, 3000K/EFF, 4000K, 120-277V, 20000-HOUR RATED LIFE, 5-YEAR WARRANTY | 16              | 0.138    | 2340     | 33372     | 16              | 0.000    | 2340     | 12732     | 0         |                      | 0%      | 0                 | 0.058      | 118  |
| 253    | Village Hall | Village Hall - L, East<br>Stairwell          | Wall Mount fixture, 1' x 6', 4x10W/12, 20W, Mag. ES Ballast, 120/277V, Emergency Ballast         | 3    | RETRO FLUORESCENT, 16W, LP BALAST, 2X 3" TUBE, WHITE, 3000K/EFF, 4000K, 120-277V, 20000-HOUR RATED LIFE, 5-YEAR WARRANTY | 158             | 0.328    | 8760     | 140130    | 16              | 0.000    | 8760     | 79088     | 0         |                      | 0%      | 0                 | 0.058      | 908  |

| SYSTEM INFORMATION |              |  |  |     | EXISTING SYSTEM  |            |         |         |           | PROPOSED SYSTEM |         |         |           |          |  |       | SAVINGS           |            |                 |
|--------------------|--------------|--|--|-----|--|------------|---------|---------|-----------|-----------------|---------|---------|-----------|----------|--|-------|-------------------|------------|-----------------|
| #                  | BUILDING     | LOCATION                                     | EXISTING FIXTURE   | QTY | NEW FIXTURE/RETROFIT   | WATTS EACH | TOTAL W | OF HOUR | TOTAL KWH | WATTS EACH      | TOTAL W | OF HOUR | TOTAL KWH | SEN. QTY | CONTROL DESCRIPTION  | OFF % | SESS. KWH SAVINGS | KW Reduced | PERCENT REDUCED |
| 154                | Village Hall | Village Hall - L Mechanical Room             | Industrial Recessed Fixture, 1' x 4', 24554132, 34W, Mag. ES Reflec, 120/277V                  | 5   | RETRO FLUORESCENT, 42W, 1F BALAST, 2X4 TUBE, WHITE, 3000K/3500K, 4000K, 120-277V, 28000-HOUR RATED LIFE, 5-YEAR WARRANTY | 24         | 0.120   | 2340    | 855.8     | 45              | 0.015   | 2340    | 923.1     | 0        |  | 0%    | 0                 | 0.155      | 383             |
| 155                | Village Hall | Village Hall - L Mechanical Room             | Industrial Recessed Fixture, 1' x 4', 24554132, 34W, Mag. ES Reflec, 120/277V, Emergency Light | 1   | RETRO FLUORESCENT, 42W, 1F BALAST, 2X4 TUBE, WHITE, 3000K/3500K, 4000K, 120-277V, 28000-HOUR RATED LIFE, 5-YEAR WARRANTY | 24         | 0.070   | 1760    | 648.24    | 45              | 0.005   | 1760    | 176.88    | 0        |  | 0%    | 0                 | 602.3      | 272             |
| 156                | Village Hall | Village Hall - L Electrical Closet           | Industrial Recessed Fixture, 1' x 4', 24554132, 34W, Mag. ES Reflec, 120/277V                  | 5   | RETRO FLUORESCENT, 42W, 1F BALAST, 2X4 TUBE, WHITE, 3000K/3500K, 4000K, 120-277V, 28000-HOUR RATED LIFE, 5-YEAR WARRANTY | 24         | 0.120   | 2340    | 855.8     | 45              | 0.015   | 2340    | 923.1     | 0        |  | 0%    | 0                 | 0.155      | 383             |
| 157                | Village Hall | Village Hall - L Electrical Closet           | Industrial Recessed Fixture, 1' x 4', 24554132, 34W, Mag. ES Reflec, 120/277V, Emergency Light | 1   | RETRO FLUORESCENT, 42W, 1F BALAST, 2X4 TUBE, WHITE, 3000K/3500K, 4000K, 120-277V, 28000-HOUR RATED LIFE, 5-YEAR WARRANTY | 24         | 0.070   | 1760    | 648.24    | 45              | 0.005   | 1760    | 176.88    | 0        |  | 0%    | 0                 | 602.3      | 272             |
| 158                | Village Hall | Village Hall - L, Auditorium Closet          | Industrial Recessed Fixture, 1' x 4', 24554132, 34W, Mag. ES Reflec, 120/277V                  | 1   | RETRO FLUORESCENT, 42W, 1F BALAST, 2X4 TUBE, WHITE, 3000K/3500K, 4000K, 120-277V, 28000-HOUR RATED LIFE, 5-YEAR WARRANTY | 24         | 0.070   | 1760    | 173.16    | 45              | 0.005   | 1760    | 106.62    | 0        |  | 0%    | 0                 | 803.5      | 71              |
| 159                | Village Hall | Village Hall - L, Room 102B-C                | Industrial Recessed Fixture, 1' x 4', 24554132, 34W, Mag. ES Reflec, 120/277V                  | 2   | RETRO FLUORESCENT, 42W, 1F BALAST, 2X4 TUBE, WHITE, 3000K/3500K, 4000K, 120-277V, 28000-HOUR RATED LIFE, 5-YEAR WARRANTY | 24         | 0.040   | 1760    | 146.22    | 45              | 0.005   | 1760    | 106.24    | 0        |  | 0%    | 0                 | 400.9      | 345             |
| 160                | Village Hall | Village Hall - L, Recess E20D - Corridor     | Dish Troffer, 2'x4', 2x PS4132, 124W, Mag. ES Reflec, 120/277V, Emergency Light                | 9   | RETRO FLUORESCENT, 42W, 1F BALAST, 2X4 TUBE, WHITE, 3000K/3500K, 4000K, 120-277V, 28000-HOUR RATED LIFE, 5-YEAR WARRANTY | 24         | 0.065   | 2340    | 1059.96   | 45              | 0.005   | 2340    | 965.58    | 0        |  | 0%    | 0                 | 823.3      | 353             |
| 161                | Village Hall | Village Hall - L, Recess E20E - Corridor     | Dish Troffer, 2'x4', 2x PS4132, 124W, Mag. ES Reflec, 120/277V, Emergency Light                | 8   | RETRO FLUORESCENT, 42W, 1F BALAST, 2X4 TUBE, WHITE, 3000K/3500K, 4000K, 120-277V, 28000-HOUR RATED LIFE, 5-YEAR WARRANTY | 24         | 0.050   | 1760    | 5155.36   | 45              | 0.005   | 1760    | 2023.44   | 0        |  | 0%    | 0                 | 3132.92    | 2.171           |
| 162                | Village Hall | Village Hall - L, Room 102B - Men's Restroom | Dish Troffer, 2'x4', 2x PS4132, 124W, Mag. ES Reflec, 120/277V, Emergency Light                | 1   | RETRO FLUORESCENT, 42W, 1F BALAST, 2X4 TUBE, WHITE, 3000K/3500K, 4000K, 120-277V, 28000-HOUR RATED LIFE, 5-YEAR WARRANTY | 24         | 0.070   | 1760    | 648.24    | 45              | 0.005   | 1760    | 176.88    | 1        | Celing Mount, Passive infrared, Standard Range, PIR Motion, 10-30 Andal Control, On/Off Voltage 120/240V | 10%   | 112.008           | 6.011      | 925             |

| SYSTEM INFORMATION |              |  |   |      |  |            | EXISTING SYSTEM |          |           |            | PROPOSED SYSTEM |          |           |           |   |       | SAVINGS           |            |             |
|--------------------|--------------|--|---|------|--|------------|-----------------|----------|-----------|------------|-----------------|----------|-----------|-----------|---|-------|-------------------|------------|-------------|
| Ref #              | BUILDING     | LOCATION   | EXISTING FIXTURE  | CITY | NEW/TEXTURE/BRIGHT   | WATTS EACH | TOTAL kW        | OP. HOUR | TOTAL kWh | WATTS EACH | TOTAL kW        | OP. HOUR | TOTAL kWh | SEN. CITY | CONTROL DESCRIPTION   | OFF % | SENS. kWh SAVINGS | kW Reduced | kWh Reduced |
| 163                | Village Hall | Village Hall - L Room 1006 - Men's Restroom          | 8in Strip Fixture, 1' x 4', 24 F34T12, 30W, Mag ES Ballast, 120/277V                            | L    | RETRO, FLUORESCENT, 41W, LP-BALLAST, 264" TUBE, WHITE, SHROUD/REFL, 4000K, 120-277V, 2000 HOUR RATED LIFE, 3-YEAR WARRANTY | 38         | 0.222           | 2340     | 526.48    | 45         | 0.121           | 2340     | 323.37    | L         | Replace with sensor on another fixture  | 50%   | 10.54K            | 0.050      | .00%        |
| 164                | Village Hall | Village Hall - L Room 1006 - Men's Restroom          | 8in Strip Fixture, 1' x 4', 24 F34T12, 30W, Mag ES Ballast, 120/277V                            | L    | RETRO, FLUORESCENT, 41W, LP-BALLAST, 264" TUBE, WHITE, SHROUD/REFL, 4000K, 120-277V, 2000 HOUR RATED LIFE, 3-YEAR WARRANTY | 38         | 0.222           | 2340     | 101.45    | 46         | 0.040           | 2340     | 95.5      | L         | Replace with sensor on another fixture  | 30%   | 2.03              | 0.050      | .56         |
| 165                | Village Hall | Village Hall - L Room 1006 - Women's Restroom        | 8in Strip Fixture, 1' x 4', 24 F34T12, 30W, Mag ES Ballast, 120/277V, Emergency Ballast         | L    | RETRO, FLUORESCENT, 41W, LP-BALLAST, 264" TUBE, WHITE, SHROUD/REFL, 4000K, 120-277V, 2000 HOUR RATED LIFE, 3-YEAR WARRANTY | 38         | 0.222           | 2340     | 648.28    | 43         | 0.040           | 8165     | 376.48    | L         | Living Mount, Passive Infrared, Standard Range 3-15', Nxt Mnt, 10-10', Rollover, 120/277V | 70%   | 10.60K            | 0.423      | .38%        |
| 166                | Village Hall | Village Hall - L Room 1009 - Women's Restroom        | 8in Strip Fixture, 1' x 4', 24 F34T12, 30W, Mag ES Ballast, 120/277V                            | L    | RETRO, FLUORESCENT, 41W, LP-BALLAST, 264" TUBE, WHITE, SHROUD/REFL, 4000K, 120-277V, 2000 HOUR RATED LIFE, 3-YEAR WARRANTY | 38         | 0.222           | 2340     | 526.48    | 45         | 0.121           | 2340     | 323.37    | L         | Replace with sensor on another fixture  | 50%   | 10.54K            | 0.050      | .00%        |
| 167                | Village Hall | Village Hall - L Room 1009 - Women's Restroom        | 8in Strip Fixture, 1' x 4', 24 F34T12, 30W, Mag ES Ballast, 120/277V                            | L    | RETRO, FLUORESCENT, 41W, LP-BALLAST, 264" TUBE, WHITE, SHROUD/REFL, 4000K, 120-277V, 2000 HOUR RATED LIFE, 3-YEAR WARRANTY | 38         | 0.222           | 2340     | 101.45    | 46         | 0.040           | 2340     | 95.5      | L         | Replace with sensor on another fixture  | 30%   | 2.03              | 0.050      | .56         |
| 168                | Village Hall | Village Hall - L West Stairwell                      | Wall Mount Fixture, 2' x 5", 2x F34T12, 30W, Mag ES Ballast, 120/277V                           | L    | RETRO, FLUORESCENT, 80W, LP-BALLAST, 46" TUBE, WHITE, SHROUD/REFL, 4000K, 120-277V, 2000 HOUR RATED LIFE, 3-YEAR WARRANTY  | 138        | 0.124           | 1380     | 322.92    | 80         | 0.050           | 1380     | 187.2     | 0         |   | 0%    | 0                 | 0.050      | .13%        |
| 169                | Village Hall | Village Hall - L West Stairwell                      | Wall Mount Fixture, 2' x 5", 2x F34T12, 30W, Mag ES Ballast, 120/277V, Emergency Ballast        | L    | RETRO, FLUORESCENT, 80W, LP-BALLAST, 46" TUBE, WHITE, SHROUD/REFL, 4000K, 120-277V, 2000 HOUR RATED LIFE, 3-YEAR WARRANTY  | 138        | 0.124           | 1380     | 1208.82   | 80         | 0.050           | 1380     | 902.8     | 0         |   | 0%    | 0                 | 0.128      | .10%        |
| 170                | Village Hall | Village Hall - L West Storage Room (Unfinished Area) | Indirect Recessed Fixture, 2' x 4', 2x F34T12, 30W, Mag ES Ballast, 120/277V                    | L    | RETRO, FLUORESCENT, 45W, LP-BALLAST, 264" TUBE, WHITE, SHROUD/REFL, 4000K, 120-277V, 2000 HOUR RATED LIFE, 3-YEAR WARRANTY | 74         | 0.122           | 780      | 3038.96   | 45         | 0.070           | 780      | 601.73    | 0         |   | 0%    | 0                 | 0.550      | .45%        |
| 171                | Village Hall | Village Hall - L West Storage Room (Unfinished Area) | Indirect Recessed Fixture, 2' x 4', 2x F34T12, 30W, Mag ES Ballast, 120/277V, Emergency Ballast | S    | RETRO, FLUORESCENT, 45W, LP-BALLAST, 264" TUBE, WHITE, SHROUD/REFL, 4000K, 120-277V, 2000 HOUR RATED LIFE, 3-YEAR WARRANTY | 74         | 0.122           | 780      | 3038.92   | 45         | 0.070           | 8160     | 1803.4    | 0         |   | 0%    | 0                 | 0.256      | .13%        |

| SYSTEM INFORMATION |              |   |  |     |  |  | EXISTING SYSTEM |            |            |          |           | PROPOSED SYSTEM |            |          |           |           |   |       | SAVINGS   |            |          |               |
|--------------------|--------------|---|--|-----|--|--|-----------------|------------|------------|----------|-----------|-----------------|------------|----------|-----------|-----------|---|-------|-----------|------------|----------|---------------|
| Ref. #             | BUILDING     | LOCATION                                      | EXISTING FIXTURE   | QTY | NEW FIXTURE/RETROFIT   |  |                 | WATTS EACH | TOTAL WATT | OP. HOUR | TOTAL kWh | WATTS EACH      | TOTAL WATT | OP. HOUR | TOTAL kWh | SEN. CITY | CONTROL DESCRIPTION   | OFF % | SENS. kWh | KW SAVINGS | KW RATED | WATTS Reduced |
| 172                | Village Hall | Village Hall - L, Room U034 - Conference Room | Grid Troffer, 2' x 4', 2x T54T12, Avg 15.8kWh, 120/277V, Premium Lume                          | 3   | RETRO FLUORESCENT, 43W, 1P BALLAST, 2X 4' TUBE, TROFFER RETROFIT KIT, WHITE REFLECTOR, 360 DEGREE, 4000K, 120-277V, 20000 HOUR RATED LIFE, 5 YEAR WARRANTY |  |                 | 148        | 434.4      | 2340     | 1018.96   | 43              | 6126       | 2340     | 1018.96   | 1         | Celing Mount, PassivInfrared, Standard Range, 15.8kWh/Hr, 120-277V, Radii Coverage, Low Voltage, 120/277V | 48%   | 114.9128  | 0.315      | 870      |               |
| 373                | Village Hall | Village Hall - L, Room U034 - Open Offices    | Grid Troffer, 2' x 4', 2x T54T12, (54W), Avg 15.8kWh, 120/277V, Premium Lume                   | 12  | RETRO FLUORESCENT, 43W, 1P BALLAST, 2X 4' TUBE, WHITE, TRODECO, 4000K, 120-277V, 20000 HOUR RATED LIFE, 5 YEAR WARRANTY                                    |  |                 | 148        | 537.6      | 2340     | 2389.96   | 43              | 6126       | 2340     | 1018.96   | 0         |   | 0%    | 0         | 0.275      | 2,181    |               |
| 374                | Village Hall | Village Hall - L, Room U034 - Open Offices    | Grid Troffer, 2' x 4', 2x T54T12, (54W), Avg 15.8kWh, 120/277V, Premium Lume, Emergency Relais | 3   | RETRO FLUORESCENT, 43W, 1P BALLAST, 2X 4' TUBE, WHITE, TRODECO, 4000K, 120-277V, 20000 HOUR RATED LIFE, 5 YEAR WARRANTY                                    |  |                 | 148        | 635.4      | 2340     | 3101.04   | 43              | 6126       | 2340     | 1150.04   | 0         |   | 0%    | 0         | 0.425      | 1,971    |               |
| 375                | Village Hall | Village Hall - L, Room U034 - Private Office  | Grid Troffer, 2' x 4', 2x T54T12, Avg 15.8kWh, 120/277V, Premium Lume                          | 1   | RETRO FLUORESCENT, 43W, 1P BALLAST, 2X 4' TUBE, TROFFER RETROFIT KIT, WHITE REFLECTOR, 360 DEGREE, 4000K, 120-277V, 20000 HOUR RATED LIFE, 5 YEAR WARRANTY |  |                 | 148        | 9.439      | 2340     | 692.84    | 43              | 6126       | 2340     | 310.24    | 1         | Celing Mount, PassivInfrared, Standard Range, 15.8kWh/Hr, 120-277V, Radii Coverage, Low Voltage, 120/277V | 48%   | 34.9208   | 0.239      | 578      |               |
| 376                | Village Hall | Village Hall - L, Room U034 - Private Office  | Grid Troffer, 2' x 4', 2x T54T12, Avg 15.8kWh, 120/277V, Premium Lume                          | 6   | RETRO FLUORESCENT, 43W, 1P BALLAST, 2X 4' TUBE, WHITE, TRODECO, 4000K, 120-277V, 20000 HOUR RATED LIFE, 5 YEAR WARRANTY                                    |  |                 | 76         | 919.6      | 2340     | 670.94    | 43              | 6126       | 2340     | 309.48    | 1         | Celing Mount, PassivInfrared, Standard Range, 15.8kWh/Hr, 120-277V, Radii Coverage, Low Voltage, 120/277V | 42%   | 109.6116  | 0.238      | 419      |               |
| 377                | Village Hall | Village Hall - L, Room U035 - Private Office  | Grid Troffer, 2' x 4', 2x T54T12, Avg 15.8kWh, 120/277V, Premium Lume                          | 3   | RETRO FLUORESCENT, 43W, 1P BALLAST, 2X 4' TUBE, TROFFER RETROFIT KIT, WHITE REFLECTOR, 360 DEGREE, 4000K, 120-277V, 20000 HOUR RATED LIFE, 5 YEAR WARRANTY |  |                 | 148        | 0.298      | 2340     | 592.64    | 43              | 6126       | 2340     | 205.24    | 0         | Celing Mount, PassivInfrared, Standard Range, 15.8kWh/Hr, 120-277V, Radii Coverage, Low Voltage, 120/277V | 42%   | 84.5208   | 0.230      | 505      |               |
| 378                | Village Hall | Village Hall - L, Room U035 - Private Office  | Grid Troffer, 2' x 4', 2x T54T12, Avg 15.8kWh, 120/277V, Premium Lume                          | 3   | RETRO FLUORESCENT, 43W, 1P BALLAST, 2X 4' TUBE, TROFFER RETROFIT KIT, WHITE REFLECTOR, 360 DEGREE, 4000K, 120-277V, 20000 HOUR RATED LIFE, 5 YEAR WARRANTY |  |                 | 148        | 0.648      | 2340     | 2028.96   | 43              | 6126       | 2340     | 305.96    | 1         | Celing Mount, PassivInfrared, Standard Range, 15.8kWh/Hr, 120-277V, Radii Coverage, Low Voltage, 120/277V | 42%   | 125.7832  | 0.235      | 894      |               |
| 379                | Village Hall | Village Hall - L, East Open Office            | Grid Troffer, 2' x 4', 2x T54T12, Avg 15.8kWh, 120/277V, Premium Lume                          | 6   | RETRO FLUORESCENT, 43W, 1P BALLAST, 2X 4' TUBE, TROFFER RETROFIT KIT, WHITE REFLECTOR, 360 DEGREE, 4000K, 120-277V, 20000 HOUR RATED LIFE, 5 YEAR WARRANTY |  |                 | 148        | 0.898      | 2340     | 2677.92   | 43              | 6126       | 2340     | 461.72    | 0         |   | 0%    | 0         | 0.439      | 1,614    |               |
| 380                | Village Hall | Village Hall - L, East Private Office M1      | Grid Troffer, 2' x 4', 2x T54T12, Avg 15.8kWh, 120/277V, Premium Lume                          | 3   | RETRO FLUORESCENT, 43W, 1P BALLAST, 2X 4' TUBE, TROFFER RETROFIT KIT, WHITE REFLECTOR, 360 DEGREE, 4000K, 120-277V, 20000 HOUR RATED LIFE, 5 YEAR WARRANTY |  |                 | 148        | 0.448      | 2340     | 1018.96   | 43              | 6126       | 2340     | 305.96    | 1         | Celing Mount, PassivInfrared, Standard Range, 15.8kWh/Hr, 120-277V, Radii Coverage, Low Voltage, 120/277V | 42%   | 324.7812  | 0.185      | 864      |               |

| Ref # | Building     | System Information                       |  |          | Existing System |       |          | Proposed System |          |       | Savings                                 |          |             |             |
|-------|--------------|--|--|----------|-----------------|-------|----------|-----------------|----------|-------|---|----------|-------------|-------------|
|       |              | Location                                 | Structure/Facility                     | City     | Watts           | Total | Op. Hour | Total           | Op. Hour | Total | Sys. Description                        | Off Grid | Min Savings | Max Savings |
| 102   | Village Hall | Village Hall - L. End Private Office H2  | St. Rd. 7, Box 26<br>Private Residence | Waukesha | 1348            | 0.138 | 2340     | 183.94          | 41       | 100%  | 50% Off Grid Change - 15 KW (Net 10.25) | 43%      | 38.340      | 62.00       |
| 107   | Village Hall | Village Hall - L. East Private Office H2 | St. Rd. 7, Box 26<br>Private Residence | Waukesha | 248             | 0.135 | 2340     | 100.74          | 41       | 100%  | 50% Off Grid Change - 15 KW (Net 10.25) | 43%      | 52.000      | 52.00       |
| 108   | Village Hall | Village Hall - L. East Private Office H2 | St. Rd. 7, Box 26<br>Private Residence | Waukesha | 248             | 0.135 | 2340     | 100.74          | 41       | 100%  | 50% Off Grid Change - 15 KW (Net 10.25) | 43%      | 52.000      | 52.00       |
| 109   | Village Hall | Village Hall - 1st Fl. Lobby             | 102 - Lobby                            | Waukesha | 8               | 0.000 | 1        | 8               | 1        | 100%  | 50% Off Grid Change - 15 KW (Net 10.25) | 43%      | 0.000       | 0.00        |
| 110   | Village Hall | Village Hall - 1st Fl. Lobby             | 102 - Lobby                            | Waukesha | 0               | 0.000 | 1        | 0               | 0        | 100%  | 50% Off Grid Change - 15 KW (Net 10.25) | 43%      | 0.000       | 0.00        |
| 111   | Village Hall | Village Hall - 1st Fl. Lobby             | 102 - Lobby                            | Waukesha | 0               | 0.000 | 1        | 0               | 0        | 100%  | 50% Off Grid Change - 15 KW (Net 10.25) | 43%      | 0.000       | 0.00        |
| 112   | Village Hall | Village Hall - 1st Fl. Lobby             | 102 - Lobby                            | Waukesha | 0               | 0.000 | 1        | 0               | 0        | 100%  | 50% Off Grid Change - 15 KW (Net 10.25) | 43%      | 0.000       | 0.00        |
| 113   | Village Hall | Village Hall - 1st Fl. Lobby             | 102 - Lobby                            | Waukesha | 0               | 0.000 | 1        | 0               | 0        | 100%  | 50% Off Grid Change - 15 KW (Net 10.25) | 43%      | 0.000       | 0.00        |
| 114   | Village Hall | Village Hall - 1st Fl. Lobby             | 102 - Lobby                            | Waukesha | 0               | 0.000 | 1        | 0               | 0        | 100%  | 50% Off Grid Change - 15 KW (Net 10.25) | 43%      | 0.000       | 0.00        |
| 115   | Village Hall | Village Hall - 1st Fl. Lobby             | 102 - Lobby                            | Waukesha | 0               | 0.000 | 1        | 0               | 0        | 100%  | 50% Off Grid Change - 15 KW (Net 10.25) | 43%      | 0.000       | 0.00        |
| 116   | Village Hall | Village Hall - 1st Fl. Lobby             | 102 - Lobby                            | Waukesha | 0               | 0.000 | 1        | 0               | 0        | 100%  | 50% Off Grid Change - 15 KW (Net 10.25) | 43%      | 0.000       | 0.00        |
| 117   | Village Hall | Village Hall - 1st Fl. Lobby             | 102 - Lobby                            | Waukesha | 0               | 0.000 | 1        | 0               | 0        | 100%  | 50% Off Grid Change - 15 KW (Net 10.25) | 43%      | 0.000       | 0.00        |
| 118   | Village Hall | Village Hall - 1st Fl. Lobby             | 102 - Lobby                            | Waukesha | 0               | 0.000 | 1        | 0               | 0        | 100%  | 50% Off Grid Change - 15 KW (Net 10.25) | 43%      | 0.000       | 0.00        |
| 119   | Village Hall | Village Hall - 1st Fl. Lobby             | 102 - Lobby                            | Waukesha | 0               | 0.000 | 1        | 0               | 0        | 100%  | 50% Off Grid Change - 15 KW (Net 10.25) | 43%      | 0.000       | 0.00        |
| 120   | Village Hall | Village Hall - 1st Fl. Lobby             | 102 - Lobby                            | Waukesha | 0               | 0.000 | 1        | 0               | 0        | 100%  | 50% Off Grid Change - 15 KW (Net 10.25) | 43%      | 0.000       | 0.00        |
| 121   | Village Hall | Village Hall - 1st Fl. Lobby             | 102 - Lobby                            | Waukesha | 0               | 0.000 | 1        | 0               | 0        | 100%  | 50% Off Grid Change - 15 KW (Net 10.25) | 43%      | 0.000       | 0.00        |
| 122   | Village Hall | Village Hall - 1st Fl. Lobby             | 102 - Lobby                            | Waukesha | 0               | 0.000 | 1        | 0               | 0        | 100%  | 50% Off Grid Change - 15 KW (Net 10.25) | 43%      | 0.000       | 0.00        |

| Ref. # | BUILDING     | LOCATION                                      | EXISTING FIXTURE  | CITY | SYSTEM INFORMATION  |                      |            | EXISTING SYSTEM |          |          | PROPOSED SYSTEM |            |        |          |   |           | SAVINGS   |                     |       |                   |
|--------|--------------|---|---|------|---|----------------------|------------|-----------------|----------|----------|-----------------|------------|--------|----------|---|-----------|-----------|---------------------|-------|-------------------|
|        |              |   |   |      | SPK#  | NEW FIXTURE/RETROFIT | WATTS EACH | SPK#            | TOTAL KW | OP. HOUR | TOTAL KWH       | WATTS EACH | SPK#   | TOTAL KW | OP. HOUR  | TOTAL KWH | SPK# CITY | CONTROL DESCRIPTION | OFF % | SUNS. KWH SAVINGS |
| 128    | Village Hall | Village Hall - 1st, Room 102 - Open Office    | Grid Trough, 2 x 4', 2x 134712, (1446), Mag ES Ballast, 110/127V, Fluorescent Lamp, Emergency Ballast | L    | RETRO FLUORESCENT, 43W, UP BALLAST, 2X 4' TUBE, WHITE, MODERATE, 4000K, 120-127V, 2000 HOUR RATED LIFE, 3-YEAR WARRANTY | 73                   | 0.074      | 876             | 598.14   | 43       | 0.043           | 370        | 370.57 | 0        |   |           | 0%        | 0                   | 0.00  | 273               |
| 140    | Village Hall | Village Hall - 1st, Room 103 - Private Office | Grid Trough, 2 x 4', 2x 134712, (1446), Mag ES Ballast, 110/127V, Fluorescent Lamp                    | L    | RETRO FLUORESCENT, 43W, UP BALLAST, 2X 4' TUBE, WHITE, MODERATE, 4000K, 120-127V, 2000 HOUR RATED LIFE, 3-YEAR WARRANTY | 73                   | 0.048      | 2340            | 996.12   | 43       | 0.030           | 2340       | 270.24 | 1        | Lofting Mount, Passive Infrared, Standard Range, B-15, Mag Hes, 10-30 Radial Coverage, Line Voltage, 110/127V |           | 43%       | 94.3208             | 0.00  | 230               |
| 129    | Village Hall | Village Hall - 1st, Room 110 - Storage        | Grid Trough, 2 x 4', 2x 134712, (1446), Mag ES Ballast, 110/127V, Fluorescent Lamp                    | L    | RETRO FLUORESCENT, 43W, UP BALLAST, 2X 4' TUBE, WHITE, MODERATE, 4000K, 120-127V, 2000 HOUR RATED LIFE, 3-YEAR WARRANTY | 73                   | 0.070      | 370             | 27.13    | 43       | 0.043           | 700        | 355.64 | 0        |   |           | 0%        | 0                   | 0.00  | 24                |
| 150    | Village Hall | Village Hall - 1st, Room 111 - Private Office | Grid Trough, 2 x 4', 2x 134712, (1446), Mag ES Ballast, 110/127V, Fluorescent Lamp                    | L    | RETRO FLUORESCENT, 43W, UP BALLAST, 2X 4' TUBE, WHITE, MODERATE, 4000K, 120-127V, 2000 HOUR RATED LIFE, 3-YEAR WARRANTY | 73                   | 0.056      | 2340            | 992.62   | 43       | 0.030           | 2340       | 300.02 | 1        | Lofting Mount, Passive Infrared, Standard Range, B-15, Mag Hes, 10-30 Radial Coverage, Line Voltage, 110/127V |           | 43%       | 169.0154            | 0.00  | 450               |
| 124    | Village Hall | Village Hall - 1st, Room 108 - Library        | Grid Trough, 2 x 4', 2x 134712, (1446), Mag ES Ballast, 110/127V, Fluorescent Lamp                    | L    | RETRO FLUORESCENT, 43W, UP BALLAST, 2X 4' TUBE, WHITE, MODERATE, 4000K, 120-127V, 2000 HOUR RATED LIFE, 3-YEAR WARRANTY | 73                   | 0.076      | 870             | 672.64   | 43       | 0.042           | 870        | 401.48 | 1        | Lofting Mount, Passive Infrared, Standard Range, B-15, Mag Hes, 10-30 Radial Coverage, Line Voltage, 110/127V |           | 43%       | 90.372              | 0.00  | 351               |
| 135    | Village Hall | Village Hall - 1st, Room 107 - File Storage   | Grid Trough, 2 x 4', 2x 134712, (1446), Mag ES Ballast, 110/127V, Fluorescent Lamp                    | L    | RETRO FLUORESCENT, 43W, UP BALLAST, 2X 4' TUBE, WHITE, MODERATE, 4000K, 120-127V, 2000 HOUR RATED LIFE, 3-YEAR WARRANTY | 73                   | 0.078      | 160             | 47.93    | 43       | 0.045           | 790        | 15.56  | 0        |   |           | 0%        | 0                   | 0.00  | 24                |
| 138    | Village Hall | Village Hall - 1st, Room 109 - Open Office    | Grid Trough, 2 x 4', 2x 134712, (1446), Mag ES Ballast, 110/127V, Fluorescent Lamp                    | L    | RETRO FLUORESCENT, 43W, UP BALLAST, 2X 4' TUBE, WHITE, MODERATE, 4000K, 120-127V, 2000 HOUR RATED LIFE, 3-YEAR WARRANTY | 73                   | 0.070      | 2340            | 1055.8   | 43       | 0.045           | 2340       | 501.11 | 0        |   |           | 0%        | 0                   | 0.00  | 383               |
| 140    | Village Hall | Village Hall - 1st, Room 106 - Open Office    | Grid Trough, 2 x 4', 2x 134712, (1446), Mag ES Ballast, 110/127V, Fluorescent Lamp, Emergency Ballast | L    | RETRO FLUORESCENT, 43W, UP BALLAST, 2X 4' TUBE, WHITE, MODERATE, 4000K, 120-127V, 2000 HOUR RATED LIFE, 3-YEAR WARRANTY | 73                   | 0.072      | 876             | 481.14   | 43       | 0.045           | 870        | 215.84 | 0        |   |           | 0%        | 0                   | 0.00  | 273               |
| 139    | Village Hall | Village Hall - 1st, Room 105 - Work Room      | Grid Trough, 2 x 4', 2x 134712, (1446), Mag ES Ballast, 110/127V, Fluorescent Lamp                    | L    | RETRO FLUORESCENT, 43W, UP BALLAST, 2X 4' TUBE, WHITE, MODERATE, 4000K, 120-127V, 2000 HOUR RATED LIFE, 3-YEAR WARRANTY | 73                   | 0.071      | 2340            | 519.42   | 43       | 0.049           | 2340       | 101.81 | 0        |   |           | 0%        | 0                   | 0.00  | 318               |



| SYSTEM INFORMATION |              |   |  |     |  | EXISTING SYSTEM |        |         |           |            | PROPOSED SYSTEM |         |           |           |   |       |                   | SAVINGS     |             |
|--------------------|--------------|---|--|-----|--|-----------------|--------|---------|-----------|------------|-----------------|---------|-----------|-----------|---|-------|-------------------|-------------|-------------|
| Ref. #             | BUILDING     | LOCATION  | EXISTING FIXTURE   | QTY | NEW FIXTURE/RETROFIT   | WATTS/EACH      | PS/PER | OP/HOUR | TOTAL KWH | WATTS/EACH | PS/PER          | OP/HOUR | TOTAL KWH | SEN. CITY | CONTROL DESCRIPTION   | OFF % | SENS. KWH SAVINGS | KWH REDUCED | KWH REDUCED |
| 100                | Village Hall | Village Hall - 1st. Room<br>127 - File Storage                      | Old Fixture or Spares Not Indicated in Project   | 1   | 40W, 4ft. reduced in project   | 0               | 0.000  | 1       | 0         | 0          | 0.000           | 1       | 0         | 0         |   | 0%    | 0                 | 0.000       | 0           |
| 109                | Village Hall | Village Hall - 1st. Room<br>128 - Open Office<br>(Case Work Admin.) | Old Tlffer, 2'x4', 1x<br>F3AT12, (34W), Mag 25<br>Ballast, 120/277V, Fluorescent Lamp                    | 5   | RETRO FLUORESCENT, 40W, LP BALLAST, 2X4' TUBE,<br>WHITE, 36000HRS, 3000K, 120-277V, 24000 HOUR<br>RATED LIFE, 5YEAR WARRANTY | 74              | 0.330  | 2300    | 869.8     | 43         | 0.015           | 2340    | 90.0      | 0         |   | 0%    | 0                 | 0.150       | 301         |
| 210                | Village Hall | Village Hall - 1st. Room<br>129 - Open Office<br>(Case Work Admin.) | Old Tlffer, 2'x4', 1x<br>F3AT12, (34W), Mag 25<br>Ballast, 120/277V, Fluorescent Lamp, Emergency Ballast | 1   | RETRO FLUORESCENT, 40W, LP BALLAST, 2X4' TUBE,<br>WHITE, 36000HRS, 3000K, 120-277V, 24000 HOUR<br>RATED LIFE, 5YEAR WARRANTY | 74              | 0.074  | 850     | 62.4      | 43         | 0.003           | 8760    | 120.0     | 0         |   | 0%    | 0                 | 0.034       | 272         |
| 211                | Village Hall | Village Hall - 1st. Room<br>128 - Open Office<br>(Case Work Admin.) | Old Fixture or Spares Not Indicated in Project   | 0   | 40W, 4ft. reduced in project   | 0               | 0.000  | 1       | 0         | 0          | 0.000           | 1       | 0         | 0         |   | 0%    | 0                 | 0.000       | 0           |
| 212                | Village Hall | Village Hall - 1st. Room<br>118 - Private Office                    | Old Tlffer, 2'x4', 1x<br>F3AT12, (34W), Mag 25<br>Ballast, 120/277V, Fluorescent Lamp                    | 2   | RETRO FLUORESCENT, 40W, LP BALLAST, 2X4' TUBE,<br>WHITE, 36000HRS, 3000K, 120-277V, 24000 HOUR<br>RATED LIFE, 5YEAR WARRANTY | 74              | 0.148  | 3500    | 549.32    | 43         | 0.006           | 3440    | 101.24    | 1         | Ceiling Mount,<br>Passive Infrared,<br>Standard Range, 3-<br>15' Height, 10-20'<br>Radial Coverage,<br>Line Voltage<br>120/277V | 46%   | 84.5108           | 0.056       | 238         |
| 213                | Village Hall | Village Hall - 1st. Room<br>119 - Private Office                    | Old Tlffer, 2'x4', 1x<br>F3AT12, (34W), Mag 25<br>Ballast, 120/277V, Fluorescent Lamp                    | 1   | RETRO FLUORESCENT, 40W, LP BALLAST, 2X4' TUBE,<br>WHITE, 36000HRS, 3000K, 120-277V, 24000 HOUR<br>RATED LIFE, 5YEAR WARRANTY | 74              | 0.022  | 1500    | 519.41    | 43         | 0.019           | 2340    | 101.86    | 1         | Ceiling Mount,<br>Passive Infrared,<br>Standard Range, 3-<br>15' Height, 10-20'<br>Radial Coverage,<br>Line Voltage<br>120/277V | 42%   | 125.7812          | 0.015       | 341         |
| 214                | Village Hall | Village Hall - 1st. Room<br>120 - Private Office                    | Old Tlffer, 2'x4', 1x<br>F3AT12, (34W), Mag 25<br>Ballast, 120/277V, Fluorescent Lamp                    | 2   | RETRO FLUORESCENT, 40W, LP BALLAST, 2X4' TUBE,<br>WHITE, 36000HRS, 3000K, 120-277V, 24000 HOUR<br>RATED LIFE, 5YEAR WARRANTY | 74              | 0.148  | 2300    | 549.32    | 43         | 0.006           | 2340    | 101.24    | 1         | Ceiling Mount,<br>Passive Infrared,<br>Standard Range, 3-<br>15' Height, 10-20'<br>Radial Coverage,<br>Line Voltage<br>120/277V | 42%   | 84.5108           | 0.056       | 238         |
| 215                | Village Hall | Village Hall - 1st. Room<br>121 - Private Office                    | Old Tlffer, 2'x4', 1x<br>F3AT12, (34W), Mag 25<br>Ballast, 120/277V, Fluorescent Lamp                    | 2   | RETRO FLUORESCENT, 40W, LP BALLAST, 2X4' TUBE,<br>WHITE, 36000HRS, 3000K, 120-277V, 24000 HOUR<br>RATED LIFE, 5YEAR WARRANTY | 74              | 0.148  | 2300    | 549.32    | 43         | 0.006           | 2340    | 101.24    | 1         | Ceiling Mount,<br>Passive Infrared,<br>Standard Range, 3-<br>15' Height, 10-20'<br>Radial Coverage,<br>Line Voltage<br>120/277V | 42%   | 84.5108           | 0.056       | 238         |
| 216                | Village Hall | Village Hall - 1st. Room<br>122 - Private Office                    | Old Tlffer, 2'x4', 1x<br>F3AT12, (34W), Mag 25<br>Ballast, 120/277V, Fluorescent Lamp                    | 2   | RETRO FLUORESCENT, 40W, LP BALLAST, 2X4' TUBE,<br>WHITE, 36000HRS, 3000K, 120-277V, 24000 HOUR<br>RATED LIFE, 5YEAR WARRANTY | 74              | 0.148  | 2300    | 549.32    | 43         | 0.006           | 2340    | 101.24    | 1         | Ceiling Mount,<br>Passive Infrared,<br>Standard Range, 3-<br>15' Height, 10-20'<br>Radial Coverage,<br>Line Voltage<br>120/277V | 42%   | 84.5108           | 0.056       | 238         |

| ITEM # | DESCRIPTION             | SYSTEM INFORMATION   |   |     | EXISTING SYSTEM                        |             |  | PROPOSED SYSTEM |            |            | SAVINGS  |        |                    |            |
|--------|-------------------------|--|---|-----|--|-------------|--|-----------------|------------|------------|--|--------|--------------------|------------|
|        |                         | LOCATION   | FIXING FIXTURE QTY  | QTY | WATTS EACH                             | TOTAL WATTS | WATTS EACH                             | TOTAL WATTS     | WATTS EACH | SERIAL QTY | CONTROLED DESCRIPTION  | DIFF % | AMPS (KWH SAVINGS) | KWH REBATE |
| 232    | Village Hall - 1st Room | Village Hall - 1st Room<br>Base-L100% Power<br>Rating:100Watt, Max:150Watt | Edi-Tech 2'x4' 24<br>Plastic L100% Power<br>Rating:100Watt, Max:150Watt | 3   | 41W<br>WATT, 100 DURES, 400W, 100% USE | 123         | 41W<br>WATT, 100 DURES, 400W, 100% USE | 56716           | 34661.46   | 149        | LEARNED STANDING, 25% TURE<br>POWER, 100 DURES, 400W, 100% USE | 47%    | 14921.6926         | 41.75      |
| 233    | Village Hall            | Village Hall - 1st Room<br>122 - Private Office                            | Edi-Tech 2'x4' 24<br>Plastic L100% Power<br>Rating:100Watt, Max:150Watt | 2   | 41W<br>WATT, 100 DURES, 400W, 100% USE | 123         | 41W<br>WATT, 100 DURES, 400W, 100% USE | 56716           | 34661.46   | 149        | LEARNED STANDING, 25% TURE<br>POWER, 100 DURES, 400W, 100% USE | 47%    | 14921.6926         | 41.75      |
| 234    | Village Hall            | Village Hall - 1st Room<br>122 - Private Office                            | Edi-Tech 2'x4' 24<br>Plastic L100% Power<br>Rating:100Watt, Max:150Watt | 3   | 41W<br>WATT, 100 DURES, 400W, 100% USE | 123         | 41W<br>WATT, 100 DURES, 400W, 100% USE | 56716           | 34661.46   | 149        | LEARNED STANDING, 25% TURE<br>POWER, 100 DURES, 400W, 100% USE | 47%    | 14921.6926         | 41.75      |
| 235    | Village Hall            | Village Hall - 1st Room<br>125 - Private Office                            | Edi-Tech 2'x4' 24<br>Plastic L100% Power<br>Rating:100Watt, Max:150Watt | 3   | 41W<br>WATT, 100 DURES, 400W, 100% USE | 123         | 41W<br>WATT, 100 DURES, 400W, 100% USE | 56716           | 34661.46   | 149        | LEARNED STANDING, 25% TURE<br>POWER, 100 DURES, 400W, 100% USE | 47%    | 14921.6926         | 41.75      |
| 236    | Village Hall            | Village Hall - 1st Room<br>126 - Private Office                            | Edi-Tech 2'x4' 24<br>Plastic L100% Power<br>Rating:100Watt, Max:150Watt | 3   | 41W<br>WATT, 100 DURES, 400W, 100% USE | 123         | 41W<br>WATT, 100 DURES, 400W, 100% USE | 56716           | 34661.46   | 149        | LEARNED STANDING, 25% TURE<br>POWER, 100 DURES, 400W, 100% USE | 47%    | 14921.6926         | 41.75      |
| 237    | Village Hall            | Village Hall - 1st Room<br>126 - Show Room                                 | Edi-Tech 2'x4' 24<br>Plastic L100% Power<br>Rating:100Watt, Max:150Watt | 6   | 41W<br>WATT, 100 DURES, 400W, 100% USE | 123         | 41W<br>WATT, 100 DURES, 400W, 100% USE | 56716           | 34661.46   | 149        | LEARNED STANDING, 25% TURE<br>POWER, 100 DURES, 400W, 100% USE | 47%    | 14921.6926         | 41.75      |
| 238    | Village Hall            | Village Hall - 1st Room<br>128 - Show Room                                 | Edi-Tech 2'x4' 24<br>Plastic L100% Power<br>Rating:100Watt, Max:150Watt | 4   | 41W<br>WATT, 100 DURES, 400W, 100% USE | 123         | 41W<br>WATT, 100 DURES, 400W, 100% USE | 56716           | 34661.46   | 149        | LEARNED STANDING, 25% TURE<br>POWER, 100 DURES, 400W, 100% USE | 47%    | 14921.6926         | 41.75      |
| 239    | Village Hall            | Village Hall - 1st Room<br>128 - Show Room                                 | Edi-Tech 2'x4' 24<br>Plastic L100% Power<br>Rating:100Watt, Max:150Watt | 5   | 41W<br>WATT, 100 DURES, 400W, 100% USE | 123         | 41W<br>WATT, 100 DURES, 400W, 100% USE | 56716           | 34661.46   | 149        | LEARNED STANDING, 25% TURE<br>POWER, 100 DURES, 400W, 100% USE | 47%    | 14921.6926         | 41.75      |
| 240    | Village Hall            | Village Hall - 1st Room<br>128 - Show Room                                 | Edi-Tech 2'x4' 24<br>Plastic L100% Power<br>Rating:100Watt, Max:150Watt | 6   | 41W<br>WATT, 100 DURES, 400W, 100% USE | 123         | 41W<br>WATT, 100 DURES, 400W, 100% USE | 56716           | 34661.46   | 149        | LEARNED STANDING, 25% TURE<br>POWER, 100 DURES, 400W, 100% USE | 47%    | 14921.6926         | 41.75      |
| 241    | Village Hall            | Village Hall - 1st Room<br>128 - Show Room                                 | Edi-Tech 2'x4' 24<br>Plastic L100% Power<br>Rating:100Watt, Max:150Watt | 7   | 41W<br>WATT, 100 DURES, 400W, 100% USE | 123         | 41W<br>WATT, 100 DURES, 400W, 100% USE | 56716           | 34661.46   | 149        | LEARNED STANDING, 25% TURE<br>POWER, 100 DURES, 400W, 100% USE | 47%    | 14921.6926         | 41.75      |
| 242    | Village Hall            | Village Hall - 1st Room<br>128 - Show Room                                 | Edi-Tech 2'x4' 24<br>Plastic L100% Power<br>Rating:100Watt, Max:150Watt | 8   | 41W<br>WATT, 100 DURES, 400W, 100% USE | 123         | 41W<br>WATT, 100 DURES, 400W, 100% USE | 56716           | 34661.46   | 149        | LEARNED STANDING, 25% TURE<br>POWER, 100 DURES, 400W, 100% USE | 47%    | 14921.6926         | 41.75      |
| 243    | Village Hall            | Village Hall - 1st Room<br>128 - Show Room                                 | Edi-Tech 2'x4' 24<br>Plastic L100% Power<br>Rating:100Watt, Max:150Watt | 9   | 41W<br>WATT, 100 DURES, 400W, 100% USE | 123         | 41W<br>WATT, 100 DURES, 400W, 100% USE | 56716           | 34661.46   | 149        | LEARNED STANDING, 25% TURE<br>POWER, 100 DURES, 400W, 100% USE | 47%    | 14921.6926         | 41.75      |

| SYSTEM INFORMATION |              |   |  |      |   |            | EXISTING SYSTEM |          |           |            | PROPOSED SYSTEM |          |           |          |   |       |           | SAVINGS    |             |  |
|--------------------|--------------|---|--|------|---|------------|-----------------|----------|-----------|------------|-----------------|----------|-----------|----------|---|-------|-----------|------------|-------------|--|
| Ref. #             | BUILDING     | LOCATION  | EXISTING FIXTURE   | CITY | NEW FIXTURE/RETROFIT  | WATTS EACH | TOTAL KW        | OP. HOUR | TOTAL KWH | WATTS EACH | TOTAL KW        | OP. HOUR | TOTAL KWH | SEL CITY | CONTROL DESCRIPTION   | OFF % | SENS. KWH | KW REDUCED | KWH REDUCED |  |
| 226                | Village Hall | Village Hall - 1st, Room 128 - Men's Restroom           | SPEC SHFL FUTURE, 1' x 4', 2x T54T12, 30W Mag 15 Ballast, 120/277V                       | 2    | RETRO. FLUORESCENT, 45W, LP BALLAST, 2X 4 TUBE, WHITE, 3000000K, 120-277V, 20000 HOUR RATED LIFE, 5 YEAR WARRANTY | 78         | 0.143           | 2340     | 34932     | 42         | 0.025           | 2340     | 30324     | 1        | Flicker with sensor on another line   | 3%    | 46,172    | 0.025      | 45%         |  |
| 227                | Village Hall | Village Hall - 1st, Room 128 - Men's Restroom           | SPEC SHFL FUTURE, 1' x 5', 2x T54T12, 30W Mag 15 Ballast, 120/277V                       | 1    | RETRO. FLUORESCENT, 45W, LP BALLAST, 2X 5 TUBE, WHITE, 3000000K, 120-277V, 20000 HOUR RATED LIFE, 5 YEAR WARRANTY | 78         | 0.055           | 2340     | 18145     | 40         | 0.010           | 2340     | 916       | 1        | Flicker with sensor on another line   | 3%    | 18,129    | 0.010      | 3%          |  |
| 228                | Village Hall | Village Hall - 1st, Room 128 - Women's Restrooms        | GridTecR, 2' x 4', 2x T54T12, 30W Mag 15 Ballast, 120/277V, Emergency Ballast, Emergency | 1    | RETRO. FLUORESCENT, 45W, LP BALLAST, 2X 4 TUBE, WHITE, 3000000K, 120-277V, 20000 HOUR RATED LIFE, 5 YEAR WARRANTY | 78         | 0.024           | 2340     | 58334     | 42         | 0.011           | 2340     | 13768     | 1        | On/Off/Roll, Preset/Variable, Standard Range, 2x 4W Emergency, 120-277V, Field Coverage Line to Village Hall 120/277V       | 3%    | 111,204   | 0.011      | 35%         |  |
| 229                | Village Hall | Village Hall - 1st, Room 128 - Women's Restrooms        | SPEC SHFL FUTURE, 1' x 4', 2x T54T12, 30W Mag 15 Ballast, 120/277V                       | 2    | RETRO. FLUORESCENT, 45W, LP BALLAST, 2X 4 TUBE, WHITE, 3000000K, 120-277V, 20000 HOUR RATED LIFE, 5 YEAR WARRANTY | 78         | 0.143           | 2340     | 34932     | 43         | 0.025           | 2340     | 30324     | 1        | Flicker with sensor on another line   | 3%    | 46,172    | 0.025      | 45%         |  |
| 230                | Village Hall | Village Hall - 1st, Room 128 - Women's Restrooms        | SPEC SHFL FUTURE, 1' x 5', 2x T54T12, 30W Mag 15 Ballast, 120/277V                       | 1    | RETRO. FLUORESCENT, 45W, LP BALLAST, 2X 5 TUBE, WHITE, 3000000K, 120-277V, 20000 HOUR RATED LIFE, 5 YEAR WARRANTY | 78         | 0.055           | 2340     | 18145     | 40         | 0.010           | 2340     | 916       | 1        | Flicker with sensor on another line   | 3%    | 18,129    | 0.010      | 3%          |  |
| 231                | Village Hall | Village Hall - 1st, Room 134A - Mail Room               | GridTecR, 2' x 4', 2x T54T12, 30W Mag 15 Ballast, 120/277V, Emergency                    | 7    | RETRO. FLUORESCENT, 45W, LP BALLAST, 2X 4 TUBE, WHITE, 3000000K, 120-277V, 20000 HOUR RATED LIFE, 5 YEAR WARRANTY | 78         | 0.013           | 2340     | 123217    | 43         | 0.004           | 2340     | 7094      | 1        | On/Off/Roll, 120° Fanless Infrared Extended Range, 120-277V, 15-35 Watt, 15-35 Watt Coverage, Line to Village Hall 120/277V | 4%    | 43,158    | 0.004      | 90%         |  |
| 232                | Village Hall | Village Hall - 1st, Room 134C - Storage                 | GridTecR, 2' x 4', 2x T54T12, 30W Mag 15 Ballast, 120/277V, Emergency                    | 1    | RETRO. FLUORESCENT, 45W, LP BALLAST, 2X 4 TUBE, WHITE, 3000000K, 120-277V, 20000 HOUR RATED LIFE, 5 YEAR WARRANTY | 78         | 0.014           | 2340     | 5232      | 43         | 0.003           | 2340     | 13556     | 0        |   | 0%    | 0         | 0.013      | 24          |  |
| 233                | Village Hall | Village Hall - 1st, Room 141 - Open Office (Accounting) | GridTecR, 2' x 4', 2x T54T12, 30W Mag 15 Ballast, 120/277V, Emergency                    | 1    | RETRO. FLUORESCENT, 45W, LP BALLAST, 2X 4 TUBE, WHITE, 3000000K, 120-277V, 20000 HOUR RATED LIFE, 5 YEAR WARRANTY | 78         | 0.012           | 2340     | 171137    | 43         | 0.003           | 2340     | 8933      | 0        |   | 0%    | 0         | 0.013      | 50%         |  |
| 234                | Village Hall | Village Hall - 1st, Room 141 - Open Office (Accounting) | GridTecR, 2' x 4', 2x T54T12, 30W Mag 15 Ballast, 120/277V, Emergency                    | 1    | RETRO. FLUORESCENT, 45W, LP BALLAST, 2X 4 TUBE, WHITE, 3000000K, 120-277V, 20000 HOUR RATED LIFE, 5 YEAR WARRANTY | 78         | 0.014           | 2340     | 54924     | 43         | 0.003           | 2340     | 13558     | 0        |   | 0%    | 0         | 0.013      | 24          |  |



| SYSTEM INFORMATION |              |  |  |      |   |            |          |          |           | EXISTING SYSTEM |          |          |           |           |   | PROPOSED SYSTEM |                   |            |             |       |  | SAVINGS |  |  |
|--------------------|--------------|--|--|------|---|------------|----------|----------|-----------|-----------------|----------|----------|-----------|-----------|---|-----------------|-------------------|------------|-------------|-------|--|---------|--|--|
| Ref. #             | BUILDING     | LOCATION   | EXISTING FIXTURE   | CITY | NEW FIXTURE/RETROFIT  | WATTS EACH | TOTAL KW | OP. HOUR | TOTAL KWH | WATTS EACH      | TOTAL KW | OP. HOUR | TOTAL KWH | SEN. CITY | CONTROL DESCRIPTION   | OFF %           | SENS. KWH SAVINGS | KW REDUCED | KWH REDUCED |       |  |         |  |  |
| 244                | Village Hall | Village Hall - 1st, Room 142 - Open Office (Finance) | GridTrotter, 2' x 4', 2x 12x12, 45W, Mag. 15 Ballast, 120/277V, Fluorescent Lamp         | 22   | RETRO FLUORESCENT, 45W, LP BALLAST, 2X 4' TUBE, WHITE, MODERATE, 4000K, 120-277V, 2000-HOUR RATED LIFE, 3-YEAR WARRANTY | 74         | 1.512    | 2340     | 380.932   | 41              | 0.746    | 2340     | 381.374   | 2         |   |                 | 0%                | 0          | 0.622       | 1.205 |  |         |  |  |
| 245                | Village Hall | Village Hall - 1st, Room 142 - Computer Storage      | GridTrotter, 2' x 4', 2x 12x12, 45W, Mag. 15 Ballast, 120/277V, Fluorescent Lamp         | 8    | RETRO FLUORESCENT, 45W, LP BALLAST, 2X 4' TUBE, WHITE, MODERATE, 4000K, 120-277V, 2000-HOUR RATED LIFE, 3-YEAR WARRANTY | 74         | 0.416    | 780      | 146.12    | 41              | 0.278    | 780      | 146.14    | 3         | On/Off Model, Passive Infrared, Standard Range, 6' 15' Range, 10-20' Radial Coverage, Low Voltage, 120/277V | 63%             | 125.781           | 0.135      | 272         |       |  |         |  |  |
| 246                | Village Hall | Village Hall - 1st, Room 142 - Telephone Equipment   | GridTrotter, 2' x 4', 2x 12x12, 45W, Mag. 15 Ballast, 120/277V, Fluorescent Lamp         | 2    | RETRO FLUORESCENT, 45W, LP BALLAST, 2X 4' TUBE, WHITE, MODERATE, 4000K, 120-277V, 2000-HOUR RATED LIFE, 3-YEAR WARRANTY | 74         | 0.148    | 2340     | 346.72    | 41              | 0.096    | 2340     | 346.74    | 1         | On/Off Model, Passive Infrared, Standard Range, 6' 15' Range, 10-20' Radial Coverage, Low Voltage, 120/277V | 63%             | 120.761           | 0.062      | 272         |       |  |         |  |  |
| 247                | Village Hall | Village Hall - 1st, Room 143 - Private Office        | GridTrotter, 2' x 4', 2x 12x12, 45W, Mag. 15 Ballast, 120/277V, Fluorescent Lamp         | 2    | RETRO FLUORESCENT, 45W, LP BALLAST, 2X 4' TUBE, WHITE, MODERATE, 4000K, 120-277V, 2000-HOUR RATED LIFE, 3-YEAR WARRANTY | 74         | 0.348    | 2340     | 546.72    | 43              | 0.196    | 2340     | 546.74    | 1         | On/Off Model, Passive Infrared, Standard Range, 6' 15' Range, 10-20' Radial Coverage, Low Voltage, 120/277V | 63%             | 84.420            | 0.082      | 216         |       |  |         |  |  |
| 248                | Village Hall | Village Hall - 1st, Room 144 - Storage               | GridTrotter, 2' x 4', 2x 12x12, 45W, Mag. 15 Ballast, 120/277V, Fluorescent Lamp         | 3    | RETRO FLUORESCENT, 45W, LP BALLAST, 2X 4' TUBE, WHITE, MODERATE, 4000K, 120-277V, 2000-HOUR RATED LIFE, 3-YEAR WARRANTY | 74         | 0.222    | 780      | 179.16    | 43              | 0.119    | 780      | 180.62    | 1         | On/Off Model, Passive Infrared, Standard Range, 6' 15' Range, 10-20' Radial Coverage, Low Voltage, 120/277V | 63%             | 61.596            | 0.063      | 156         |       |  |         |  |  |
| 249                | Village Hall | Village Hall - 1st, Room 142 - Engineering Closet    | GridTrotter, 2' x 4', 2x 12x12, 45W, Mag. 15 Ballast, 120/277V, Fluorescent Lamp         | 8    | RETRO FLUORESCENT, 45W, LP BALLAST, 2X 4' TUBE, WHITE, MODERATE, 4000K, 120-277V, 2000-HOUR RATED LIFE, 3-YEAR WARRANTY | 74         | 0.674    | 480      | 179.36    | 43              | 0.302    | 480      | 180.62    | *         |   |                 | 0%                | 0          | 0.001       | 73    |  |         |  |  |
| 250                | Village Hall | Village Hall - 1st, West Stairwell                   | Wall-Mount fixture, 2' x 4', 4x 12x12, 45W, Mag. 15 Ballast, 120/277V                    | 2    | RETRO FLUORESCENT, 45W, LP BALLAST, 2X 4' TUBE, WHITE, MODERATE, 4000K, 120-277V, 2000-HOUR RATED LIFE, 3-YEAR WARRANTY | 138        | 0.038    | 2340     | 132.52    | 26              | 0.004    | 2340     | 132.52    | 6         |   |                 | 0%                | 0          | 0.001       | 136   |  |         |  |  |
| 251                | Village Hall | Village Hall - 1st, West Stairwell                   | Wall-Mount fixture, 2' x 4', 4x 12x12, 45W, Mag. 15 Ballast, 120/277V, Emergency Ballast | 2    | RETRO FLUORESCENT, 45W, LP BALLAST, 2X 4' TUBE, WHITE, MODERATE, 4000K, 120-277V, 2000-HOUR RATED LIFE, 3-YEAR WARRANTY | 138        | 0.018    | 670      | 229.98    | 26              | 0.004    | 670      | 230.6     | 6         |   |                 | 0%                | 0          | 0.001       | 500   |  |         |  |  |
| 252                | Village Hall | Village Hall - 2nd, Corridor                         | Recessed Grid fixture, 4x 12x12, 45W, Mag. 15 Ballast, 120/277V, Standard Acrylic Lens   | 18   | RETRO FLUORESCENT, 45W, LP BALLAST, 2X 4' TUBE, WHITE, MODERATE, 4000K, 120-277V, 2000-HOUR RATED LIFE, 3-YEAR WARRANTY | 248        | 1.618    | 3240     | 595.52    | 48              | 0.508    | 3240     | 595.64    | 8         |   |                 | 0%                | 0          | 2.682       | 1.276 |  |         |  |  |

| Ref.<br># | BUILDING<br>LOCATION     | SYSTEM INFORMATION  |      | EXISTING SYSTEM  |            |   |            | PROPOSED SYSTEM                    |            |                  |                | SAVINGS          |                |        |
|-----------|--------------------------|---|------|--|------------|---|------------|------------------------------------|------------|------------------|----------------|------------------|----------------|--------|
|           |                          | EXISTING<br>POWER   | CITY | WATTS<br>TOTAL<br>PER HOUR<br>EACH   | KWH'S/HOUR | WATTS<br>TOTAL<br>PER HOUR<br>EACH  | KWH'S/HOUR | WATTS<br>TOTAL<br>PER HOUR<br>EACH | KWH'S/HOUR | WATTS<br>REDUCED | WHR<br>REDUCED | WATTS<br>REDUCED | WHR<br>REDUCED |        |
| 233       | Village Hall<br>Corridor | restored fluorescent<br>4x12' (2x12') 200W, 100%<br>reduced, 3-year warranty<br>Rated | 9    | 480 FLUORESCENT, 40W, LP, T8, 4'x12',<br>RATED, 200W, 100% REDUCED,<br>RATED USE, 3-YEAR WARRANTY    | 144        | 1,125<br>END  | 1,125.52   | 95                                 | 0.774      | END              | END            | 0                | 0.52           | -1,125 |
| 234       | Village Hall             | Village Hall 2nd<br>Corridor  | 1    | 50' fluorescent fixture<br>reduced to 100%   | 0          | 0.000   | 0          | 0                                  | 0.000      | 1                | 0              | 0                | 0.000          | 0      |
| 236       | Village Hall             | Village Hall 2nd<br>Corridor  | 1    | 60' fluorescent fixture<br>reduced to 100%   | 0          | 0.000   | 0          | 0                                  | 0.000      | 1                | 0              | 0                | 0.000          | 0      |
| 237       | Village Hall             | Village Hall 2nd<br>Corridor  | 1    | 60' fluorescent fixture<br>reduced to 100%<br>Rated, 300W, 100%<br>Reduced, 3-year warranty<br>Rated | 1          | 60' FLUORESCENT, 40W, LP, T8, 4'x12',<br>RATED, 300W, 100% REDUCED,<br>RATED USE, 3-YEAR WARRANTY | 72         | 0.189                              | 142.56     | 41               | 0.096          | 131.0            | 105.24         | 0      |
| 238       | Village Hall             | Village Hall 2nd<br>Corridor [Open]   | 1    | 60' fluorescent fixture<br>reduced to 100%<br>Rated, 300W, 100%<br>Reduced, 3-year warranty<br>Rated | 1          | 60' FLUORESCENT, 40W, LP, T8, 4'x12',<br>RATED, 300W, 100% REDUCED,<br>RATED USE, 3-YEAR WARRANTY | 72         | 0.189                              | 142.56     | 41               | 0.096          | 131.0            | 105.24         | 0      |
| 239       | Village Hall             | Village Hall 2nd<br>Corridor [Open]   | 1    | 60' fluorescent fixture<br>reduced to 100%<br>Rated, 300W, 100%<br>Reduced, 3-year warranty<br>Rated | 1          | 60' FLUORESCENT, 40W, LP, T8, 4'x12',<br>RATED, 300W, 100% REDUCED,<br>RATED USE, 3-YEAR WARRANTY | 72         | 0.189                              | 142.56     | 41               | 0.096          | 131.0            | 105.24         | 0      |
| 240       | Village Hall             | Village Hall 2nd<br>Room 205 - Storage  | 1    | 60' fluorescent fixture<br>reduced to 100%<br>Rated, 300W, 100%<br>Reduced, 3-year warranty<br>Rated | 1          | 60' FLUORESCENT, 40W, LP, T8, 4'x12',<br>RATED, 300W, 100% REDUCED,<br>RATED USE, 3-YEAR WARRANTY | 72         | 0.189                              | 142.56     | 41               | 0.096          | 131.0            | 105.24         | 0      |
| 241       | Village Hall             | Village Hall 2nd<br>Room 205 - Open<br>Office   | 1    | 60' fluorescent fixture<br>reduced to 100%<br>Rated, 300W, 100%<br>Reduced, 3-year warranty<br>Rated | 1          | 60' FLUORESCENT, 40W, LP, T8, 4'x12',<br>RATED, 300W, 100% REDUCED,<br>RATED USE, 3-YEAR WARRANTY | 72         | 0.189                              | 142.56     | 41               | 0.096          | 131.0            | 105.24         | 0      |
| 242       | Village Hall             | Village Hall 2nd<br>Room 205 - Open<br>Office   | 1    | 60' fluorescent fixture<br>reduced to 100%<br>Rated, 300W, 100%<br>Reduced, 3-year warranty<br>Rated | 1          | 60' FLUORESCENT, 40W, LP, T8, 4'x12',<br>RATED, 300W, 100% REDUCED,<br>RATED USE, 3-YEAR WARRANTY | 72         | 0.189                              | 142.56     | 41               | 0.096          | 131.0            | 105.24         | 0      |

| SYSTEM INFORMATION |              |   |                       |      |                 |                 |           |            |          | EXISTING SYSTEM |           |         |                 |                     |       | PROPOSED SYSTEM |             |             |           |   |   | SAVINGS |  |
|--------------------|--------------|---|-----------------------|------|-----------------|-----------------|-----------|------------|----------|-----------------|-----------|---------|-----------------|---------------------|-------|-----------------|-------------|-------------|-----------|---|---|---------|--|
| Ref. #             | BUILDING     | LOCATION                                      | CONTRACT NUMBER       | CITY | PERCENT OF PEAK |                 |           | WATTS EACH | TOTAL KW | TOTAL kWh       | TOTAL kWh | OP HOUR | TOTAL SEAS CITY | CONTROL DESCRIPTION | OFF % | 2013 SAVINGS    | KWH REDUCED | KWH REDUCED | SAVINGS % |   |   |         |  |
|                    |              |   |                       |      | WATTS EACH      | PERCENT OF PEAK | OFF HOURS |            |          |                 |           |         |                 |                     |       |                 |             |             |           |   |   |         |  |
| 202                | Village Hall | Village Hall - 2nd, Room 205, Open Office     | Gas Service - Project |      | 800             | 50%             | 100       | 800        | 640      | 129600          | 129600    | 129600  | 129600          | 129600              | 0     | 0               | 0           | 0           | 0         | 0 | 0 | 0       |  |
| 203                | Village Hall | Village Hall - 2nd, Room 203, Private Office  | Gas Service - Project |      | 800             | 50%             | 100       | 800        | 640      | 129600          | 129600    | 129600  | 129600          | 129600              | 0     | 0               | 0           | 0           | 0         | 0 | 0 | 0       |  |
| 204                | Village Hall | Village Hall - 2nd, Room 202, Private Office  | Gas Service - Project |      | 800             | 50%             | 100       | 800        | 640      | 129600          | 129600    | 129600  | 129600          | 129600              | 0     | 0               | 0           | 0           | 0         | 0 | 0 | 0       |  |
| 205                | Village Hall | Village Hall - 2nd, Room 201, Private Office  | Gas Service - Project |      | 800             | 50%             | 100       | 800        | 640      | 129600          | 129600    | 129600  | 129600          | 129600              | 0     | 0               | 0           | 0           | 0         | 0 | 0 | 0       |  |
| 206                | Village Hall | Village Hall - 2nd, Room 200, Private Office  | Gas Service - Project |      | 800             | 50%             | 100       | 800        | 640      | 129600          | 129600    | 129600  | 129600          | 129600              | 0     | 0               | 0           | 0           | 0         | 0 | 0 | 0       |  |
| 207                | Village Hall | Village Hall - 2nd, Room 199, Open Office     | Gas Service - Project |      | 800             | 50%             | 100       | 800        | 640      | 129600          | 129600    | 129600  | 129600          | 129600              | 0     | 0               | 0           | 0           | 0         | 0 | 0 | 0       |  |
| 208                | Village Hall | Village Hall - 2nd, Room 198, Conference Room | Gas Service - Project |      | 800             | 50%             | 100       | 800        | 640      | 129600          | 129600    | 129600  | 129600          | 129600              | 0     | 0               | 0           | 0           | 0         | 0 | 0 | 0       |  |
| 209                | Village Hall | Village Hall - 2nd, Room 197, Conference Room | Gas Service - Project |      | 800             | 50%             | 100       | 800        | 640      | 129600          | 129600    | 129600  | 129600          | 129600              | 0     | 0               | 0           | 0           | 0         | 0 | 0 | 0       |  |
| 210                | Village Hall | Village Hall - 2nd, Room 196, Open Office     | Gas Service - Project |      | 800             | 50%             | 100       | 800        | 640      | 129600          | 129600    | 129600  | 129600          | 129600              | 0     | 0               | 0           | 0           | 0         | 0 | 0 | 0       |  |

| SYSTEM INFORMATION |              |   |  |     |   | EXISTING SYSTEM |          |         |           | PROPOSED SYSTEM |          |         |           |          |   | SAVINGS |                   |            |            |
|--------------------|--------------|---|--|-----|---|-----------------|----------|---------|-----------|-----------------|----------|---------|-----------|----------|---|---------|-------------------|------------|------------|
| EST. #             | BUILDING     | LOCATION  | EXISTING FUTURE  | DTY | NEW FUTURE/RETROFIT   | WATTS EACH      | TOTAL KW | DP HOUR | TOTAL KWH | WATTS EACH      | TOTAL KW | DP HOUR | TOTAL KWH | SEN CITY | CONTROL DESCRIPTION   | OFF %   | SENS. PVW SAVINGS | KW REDUCED | %W REDUCED |
| 271                | Village Hall | Village Hall - 2nd, Room 210 - Clean Office     | Gro Trolle, 2'x4', 24 FT4T11, 154W, Dmg 15 Downt 120/277V, Standard Emergency Backup                 | 2   | RETRO, FLUORESCENT, 43W, LP BALLAST, 2X4 TUBE, WHITE, 300 DEGREE, 4000K, 120-277V, 18000 HOUR RATED LIFE, 3-YEAR WARRANTY | 44              | 0.148    | 880     | 1098.48   | 44              | 0.148    | 880     | 751.56    | 0        |   | 0%      | 0                 | 0.002      | 943        |
| 272                | Village Hall | Village Hall - 2nd, Room 211 - Lunch Room       | Gro Trolle, 2'x4', 24 FT4T11, 154W, Dmg 15 Downt 120/277V, Standard Emergency Backup                 | 2   | RETRO, FLUORESCENT, 43W, LP BALLAST, 2X4 TUBE, WHITE, 300 DEGREE, 4000K, 120-277V, 18000 HOUR RATED LIFE, 3-YEAR WARRANTY | 44              | 0.148    | 880     | 1098.48   | 44              | 0.148    | 880     | 808.72    | 1        | Cooling Master, PowerInfrared, Standard Range, 8' 35' Mid-Hgt, 10-30' Radiant Coverage, Line Voltage 120/277V | 38%     | 211.361           | 0.149      | 643        |
| 273                | Village Hall | Village Hall - 2nd, Room 212 - Women's Restroom | Gro Trolle, 2'x4', 24 FT4T11, 154W, Dmg 15 Downt 120/277V, Standard Emergency Backup                 | 1   | RETRO, FLUORESCENT, 43W, LP BALLAST, 2X4 TUBE, WHITE, 300 DEGREE, 4000K, 120-277V, 18000 HOUR RATED LIFE, 3-YEAR WARRANTY | 44              | 0.074    | 880     | 549.34    | 44              | 0.074    | 880     | 376.05    | 1        | Cooling Master, PowerInfrared, Standard Range, 8' 35' Mid-Hgt, 10-30' Radiant Coverage, Line Voltage 120/277V | 30%     | 113.004           | 0.031      | 335        |
| 274                | Village Hall | Village Hall - 2nd, Room 213 - Women's Restroom | Gro Trolle, 2'x4', 24 FT4T11, 154W, Dmg 15 Downt 120/277V  | 1   | RETRO, FLUORESCENT, 43W, LP BALLAST, 2X4 TUBE, WHITE, 300 DEGREE, 4000K, 120-277V, 18000 HOUR RATED LIFE, 3-YEAR WARRANTY | 44              | 0.148    | 880     | 1098.48   | 44              | 0.148    | 880     | 808.72    | 1        | Replace with radiant, no batteries  | 0%      | 0.002             | 0.040      | 399        |
| 275                | Village Hall | Village Hall - 2nd, Room 214 - Men's Restroom   | Gro Trolle, 2'x4', 24 FT4T11, 154W, Dmg 15 Downt 120/277V, Standard Emergency Backup                 | 1   | RETRO, FLUORESCENT, 43W, LP BALLAST, 2X4 TUBE, WHITE, 300 DEGREE, 4000K, 120-277V, 18000 HOUR RATED LIFE, 3-YEAR WARRANTY | 44              | 0.074    | 880     | 248.24    | 44              | 0.074    | 880     | 175.68    | 1        | Cooling Master, PowerInfrared, Standard Range, 8' 35' Mid-Hgt, 10-30' Radiant Coverage, Line Voltage 120/277V | 30%     | 113.004           | 0.031      | 335        |
| 276                | Village Hall | Village Hall - 2nd, Room 215 - Men's Restroom   | Gro Trolle, 2'x4', 24 FT4T11, 154W, Dmg 15 Downt 120/277V, Standard Emergency Backup                 | 1   | RETRO, FLUORESCENT, 43W, LP BALLAST, 2X4 TUBE, WHITE, 300 DEGREE, 4000K, 120-277V, 18000 HOUR RATED LIFE, 3-YEAR WARRANTY | 44              | 0.148    | 880     | 1098.48   | 44              | 0.148    | 880     | 808.72    | 1        | Replace with radiant, no batteries  | 30%     | 0.002             | 0.040      | 399        |
| 277                | Village Hall | Village Hall - 2nd, Room 216 - Conference       | Gro Trolle, 2'x4', 24 FT4T11, 154W, Dmg 15 Downt 120/277V, Standard Emergency Backup                 | 1   | RETRO, FLUORESCENT, 43W, LP BALLAST, 2X4 TUBE, WHITE, 300 DEGREE, 4000K, 120-277V, 18000 HOUR RATED LIFE, 3-YEAR WARRANTY | 44              | 0.148    | 880     | 1098.48   | 44              | 0.148    | 880     | 808.72    | 1        | Cooling Master, PowerInfrared, Standard Range, 8' 35' Mid-Hgt, 10-30' Radiant Coverage, Line Voltage 120/277V | 44%     | 265.638           | 0.148      | 933        |
| 278                | Village Hall | Village Hall - 2nd, Room 218 - Storage          | Individual Headed Panels, 2' x 4', 24 FT4T11, 154W, Dmg 15 Downt 120/277V                            | 2   | RETRO, FLUORESCENT, 43W, LP BALLAST, 2X4 TUBE, WHITE, 300 DEGREE, 4000K, 120-277V, 18000 HOUR RATED LIFE, 3-YEAR WARRANTY | 74              | 0.370    | 780     | 2018.6    | 43              | 0.110    | 780     | 1677.7    | 0        |   | 0%      | 0                 | 0.112      | 322        |
| 279                | Village Hall | Village Hall - 2nd, Room 219 - Storage          | Individual Headed Panels, 2' x 4', 24 FT4T11, 154W, Dmg 15 Downt 120/277V, Standard Emergency Backup | 2   | RETRO, FLUORESCENT, 43W, LP BALLAST, 2X4 TUBE, WHITE, 300 DEGREE, 4000K, 120-277V, 18000 HOUR RATED LIFE, 3-YEAR WARRANTY | 74              | 0.074    | 880     | 649.24    | 43              | 0.074    | 880     | 526.68    | 0        |   | 0%      | 0                 | 0.012      | 322        |





| Project Number | Building Name | Location  | System Information                          |          |                                  | Existing System |             |         | Proposed System |                |                 | Savings |                    |                     |                    |   |     |
|----------------|---------------|---|---|----------|----------------------------------|-----------------|-------------|---------|-----------------|----------------|-----------------|---------|--------------------|---------------------|--------------------|---|-----|
|                |               |   | Existing Fixture                            | Ornament | New Fixture/Fixture Type         | Watts           | Total Watts | On Hour | Off Hour        | Total Off Hour | Off Description | Off %   | Annual kWh Savings | Annual kWh Received | Annual kWh Reduced |   |     |
| 208            | Village Hall  | Village Cemetery - Oaklawn, Park City                 | Six fixture or State Park initiated project | 3        | Six fixture installed in field   | 600             | 600         | 1       | 0               | 5              | Off hour        | 1       | 6                  | 0                   | 360                | 0 | 360 |
| 209            | Village Hall  | Village Cemetery - Oaklawn, Arapahoe [Canyon]         | Six fixture or State Park initiated project | 21       | Six fixture installed by project | 6000            | 6000        | 1       | 0               | 0              | Off hour        | 1       | 0                  | 0                   | 0                  | 0 | 0   |
| 210            | Village Hall  | Village Cemetery - Oaklawn, Arapahoe [Highway Bridge] | Six fixture or State Park initiated project | 1        | Six fixture installed by project | 600             | 600         | 1       | 0               | 0              | Off hour        | 1       | 0                  | 0                   | 0                  | 0 | 0   |
| 211            | Village Hall  | Village Cemetery - Oaklawn, Arapahoe [Highway Bridge] | Six fixture or State Park initiated project | 2        | Six fixture installed by project | 6000            | 6000        | 1       | 0               | 0              | Off hour        | 1       | 0                  | 0                   | 0                  | 0 | 0   |
| 212            | Village Hall  | Village Cemetery - Oaklawn, New Site Lighting         | Six fixture or State Park initiated project | 2        | Six fixture installed by project | 6000            | 6000        | 1       | 0               | 0              | Off hour        | 1       | 0                  | 0                   | 0                  | 0 | 0   |
| 213            | Village Hall  | Village Cemetery - Oaklawn, New Site Lighting         | Six fixture or State Park initiated project | 1        | Six fixture installed by project | 6000            | 6000        | 1       | 0               | 0              | Off hour        | 1       | 0                  | 0                   | 0                  | 0 | 0   |



February 28, 2017

Mr. John Ingram/Mr. Napoleon Haney  
Public Works Director/Assistant Public Work Director  
Village of Orland Park  
15655 Ravinia Avenue  
Orland Park, IL 60464

Re: T-12 Lighting Upgrades

Mr. Ingram & Mr. Haney,

Per our conversation, CTS recommends the following solution for upgrading the remaining T-12 lighting fixtures within the Village Facilities:

The turnkey solution includes engineering with architectural fees/permits/drawings, project management, performance & payment bonds, commissioning, insurance, overhead/profit, and subcontractor work completion.

**Lighting Upgrades:**

The following Village Buildings contain inefficient T-12 lighting fixtures. These fixtures are inefficient, difficult to maintain and no longer being manufactured. The Village would like to replace all existing T-12 fixtures throughout the Village facilities. Currently the Department of Commerce and Economic Opportunity (DCEO) has incentives for replacement. This is the last year they will be administering these incentives. The program is being turned over to the utilities after May of 2017 and it is unlikely that T-12 incentives will be provided in the future.

- Village Hall
- Civic Center
- Public Works
- Recreation Center
- Robert Davidson Center
- Cultural Arts Center
- Recreation Administration Building
- Centennial Park

CTS Recommends replacement of the T-12 lighting with T-8 fluorescent fixtures in all facilities to improve lighting levels, reduce energy consumption and reduce maintenance costs throughout the Village.

We have provided the following proposal for upgrading a portion of this lighting in 2017 as part of the Phase I project. We would plan on submitting final paperwork prior to the grant deadline of May 8, 2017.

**Upgrade T-12 Lighting – Village Hall, Civic Center, & Recreation Center**

CTS recommends replacement of all T-12 lighting with more efficient T-8 fixtures existing in the following facilities:

- Village Hall
- Civic Center
- Recreation Center

**Total Pricing: \$198,900**

**Note: Grants through the DCEO Illinois Energy Now program are estimated at \$23,814. CTS will submit all necessary paperwork for preapproval and final submission on behalf of the Village.**

Please contact me if you have any questions or need additional information. Thanks again.

Sincerely,

Michele A. James  
CTS Account Manager  
773.633.0691 (p)  
[mjames@ctsgroup.com](mailto:mjames@ctsgroup.com)