

**NOTICE OF WORK SESSIONS  
DELAWARE CITY COUNCIL  
THURSDAY, SEPTEMBER 6, 2018  
6:30 P.M.  
1 SOUTH SANDUSKY STREET  
COUNCIL CHAMBERS**

**AGENDA**

1. Roll Call
2. SECOND READING of Resolution No. 18-50, a resolution adopting the 2019-2023 Five-Year Capital Improvement Program (CIP).
3. Review and Discussion of 2019-2023 Five- Year Capital Improvement Program (CIP)
4. EXECUTIVE SESSION: pursuant to Ohio Revised Code Section 121.22 (G) (3) pending or imminent court action, Section 121.22 (G) (1) personnel, Section 121.22 (G) (5) matters required to be kept confidential by State statute, Section 121.22 (G) (2) acquisition of property for public purpose and 121.22(G) (8) consideration of confidential information related to a request for economic development assistance.
5. Adjournment



## FACT SHEET

---

AGENDA ITEM NO: 2

DATE: 09/06/2018

ORDINANCE NO:

RESOLUTION NO: 18-50

READING: SECOND

PUBLIC HEARING: NO

---

TO: Mayor and Members of City Council

FROM: R. Thomas Homan, City Manager

VIA:

---

**TITLE OF PROPOSED ORDINANCE/RESOLUTION:**

A RESOLUTION ADOPTING THE 2019-2023 FIVE-YEAR CAPITAL IMPROVEMENT PROGRAM (CIP).

**BACKGROUND:**

A work session to discuss the CIP has been scheduled for Thursday, September 6 and Monday, October 1.

**REASON WHY LEGISLATION IS NEEDED:**

Pursuant to Section 79 of the Charter, the CIP is to be submitted to City Council by August 15 and adopted no later than October 15. Adoption is scheduled for Council's October 8 meeting.

**COMMITTEE RECOMMENDATION:**

N/A

**FISCAL IMPACT(S):**

**POLICY CHANGES:**

N/A

**PRESENTER(S):**

R. Thomas Homan, City Manager  
Dean Stelzer, Finance Director

**RECOMMENDATION:**

**ATTACHMENT(S)**

CIP

RESOLUTION 18-50

A RESOLUTION ADOPTING THE 2019-2023 FIVE-YEAR CAPITAL IMPROVEMENT PROGRAM (CIP).

WHEREAS, a revised Five-Year Capital Improvements Program was prepared and submitted to City Council in accordance with Article XVII, Section 79 of the City Charter; and

WHEREAS, City Council has considered the proposed plan and has determined that it shall be the future public improvement plan for the City of Delaware; and

WHEREAS, Article XVII, Section 80 of the City Charter requires that City Council adopt, by resolution, the Five-Year Capital Improvements Program on or before October 15; and

WHEREAS, City Council will review the 2019-2023 CIP at Work Sessions before October 8.

WHEREAS, Council discussed possible amendments to the plan which may be considered as part of the adopted 2019 budget.

NOW, THEREFORE, BE IT RESOLVED by the Council of the City of Delaware, State of Ohio:

SECTION 1. That the 2019-2023 Five-Year Capital Improvements Program for the General Fund, Airport, Fire, Police, Public Works, Parks, Equipment Replacement, Technology, Building Maintenance, Water, Sewer, Storm Sewer, Refuse, Parks Impact, Police Impact, and Fire Impact attached hereto as Exhibit A, is hereby adopted as the official plan for future public improvements.

SECTION 2. That this resolution shall take effect and be in force immediately after its passage.

PASSED: \_\_\_\_\_, 2018

YEAS \_\_\_\_ NAYS \_\_\_\_  
ABSTAIN \_\_\_\_

ATTEST: \_\_\_\_\_  
CITY CLERK

\_\_\_\_\_  
MAYOR

# **CITY MANAGER'S PROPOSAL 2019-2023 CAPITAL IMPROVEMENT PLAN**



**PROPOSED PEDESTRIAN BRIDGE OVER  
E. WILLIAM ST. AT LAKE ST.**



## TABLE OF CONTENTS

|                |  |
|----------------|--|
| <b>Page 3</b>  | <b>General Fund Summary</b>              |
| <b>Page 4</b>  | <b>Airport Improvement Fund</b>          |
| <b>Page 7</b>  | <b>Street Improvements</b>               |
| <b>Page 10</b> | <b>Grant Projects</b>                    |
| <b>Page 15</b> | <b>Point Railroad</b>                    |
| <b>Page 17</b> | <b>Park Improvements</b>                 |
| <b>Page 20</b> | <b>Equipment Replacement</b>             |
| <b>Page 23</b> | <b>Technology Improvements</b>           |
| <b>Page 28</b> | <b>Building Maintenance Improvements</b> |
| <b>Page 33</b> | <b>Sidewalk Improvements</b>             |
| <b>Page 34</b> | <b>Parks Impact Fee Fund</b>             |
| <b>Page 40</b> | <b>Police Impact Fee Fund</b>            |
| <b>Page 41</b> | <b>Fire Impact Fee Fund</b>              |
| <b>Page 42</b> | <b>Municipal Impact Fee Fund</b>         |
| <b>Page 44</b> | <b>Fire/EMS Fund</b>                     |
| <b>Page 56</b> | <b>Public Utilities Department</b>       |
| <b>Page 58</b> | <b>Water Capacity Fee Fund</b>           |
| <b>Page 70</b> | <b>Sewer Capacity Fee Fund</b>           |
| <b>Page 71</b> | <b>Sewer Maintenance Fund</b>            |
| <b>Page 82</b> | <b>Storm Sewer Maintenance Fund</b>      |
| <b>Page 83</b> | <b>Water Equipment Replacement Fund</b>  |
| <b>Page 84</b> | <b>Refuse Fund</b>                       |

**CITY OF DELAWARE  
CAPITAL IMPROVEMENT PLAN  
GENERAL FUND SUMMARY  
2019 - 2023**

|   | 2019             | 2020             | 2021             | 2022             | 2023             |
|---|------------------|------------------|------------------|------------------|------------------|
| <b>BALANCE FORWARD</b>                                      | 729,649          | (400,434)        | (680,907)        | (595,613)        | (486,054)        |
| <b>REVENUES:</b>  |                  |                  |                  |                  |                  |
| INCOME TAX  | 1,929,375        | 2,025,844        | 2,127,136        | 2,233,493        | 2,345,167        |
| CITY HALL ANNEX RENT  | 78,000           | 78,000           | 78,000           | 78,000           | 78,000           |
| ADVANCE GENERAL RESERVE FUND                                | 59,285           | 59,285           | 59,285           | 59,285           |                  |
| <b>BALANCE PLUS REVENUE</b>                                 | <b>2,737,024</b> | <b>1,703,410</b> | <b>1,524,229</b> | <b>1,715,879</b> | <b>1,937,114</b> |
| <b>EXPENDITURES:</b>  |                  |                  |                  |                  |                  |
| <b>DEBT SERVICE</b>   |                  |                  |                  |                  |                  |
| 2012 Streetscape (\$2,542,516 through 2022)                 | 282,635          | 269,904          | 261,067          | 263,538          | 0                |
| 2019 City Hall/Annex/Parking Lot (through 2034)             | 137,285          | 137,285          | 137,285          | 137,285          | 137,285          |
| Advance from Reserve Fund Payback                           |                  |                  |                  |                  | 59,285           |
| <b>TOTAL DEBT SERVICE</b>                                   | 419,920          | 407,189          | 398,352          | 400,823          | 196,570          |
| <b>AMOUNT AVAILABLE FOR CAPITAL IMPROVEMENTS AFTER DEBT</b> | <b>2,317,104</b> | <b>1,296,221</b> | <b>1,125,877</b> | <b>1,315,056</b> | <b>1,740,544</b> |
| <b>OTHER EXPENDITURES</b>                                   |                  |                  |                  |                  |                  |
| AIRPORT IMPROVEMENTS (pg. 4)                                | 157,703          | 18,500           | 35,250           | 72,000           | 100,000          |
| STREET IMPROVEMENTS (pg. 7)                                 | 1,066,135        | 660,828          | 401,440          | 471,310          | 866,407          |
| PARK IMPROVEMENTS (pg.17)                                   | 85,900           | 54,000           | 40,000           | 30,000           | 0                |
| EQUIPMENT REPLACEMENT (pg.20)                               | 650,000          | 650,000          | 650,000          | 650,000          | 650,000          |
| TECHNOLOGY IMPROVEMENTS (pg. 23)                            | 275,300          | 335,300          | 365,300          | 345,300          | 345,300          |
| BUILDING MAINTENANCE (pg.29)                                | 311,000          | 171,000          | 115,000          | 145,000          | 300,000          |
| SIDEWALK MAINTENANCE (pg.33)                                | 87,500           | 87,500           | 87,500           | 87,500           | 87,500           |
| DEVELOPER TRUST   | 84,000           | 0                | 27,000           | 0                | 0                |
| <b>TOTAL OTHER EXPENDITURES</b>                             | <b>2,717,538</b> | <b>1,977,128</b> | <b>1,721,490</b> | <b>1,801,110</b> | <b>2,349,207</b> |
| <b>ENDING BALANCE</b>                                       | <b>(400,434)</b> | <b>(680,907)</b> | <b>(595,613)</b> | <b>(486,054)</b> | <b>(608,663)</b> |

**CAPITAL IMPROVEMENT PLAN  
AIRPORT IMPROVEMENT FUND  
2019 - 2023**

|   | 2019             | 2020           | 2021           | 2022           | 2023           |
|---|------------------|----------------|----------------|----------------|----------------|
| <b>BALANCE FORWARD</b>                              | 0                | 0              | 0              | 0              | 0              |
| <b>REVENUES:</b>                                    |                  |                |                |                |                |
| FAA Entitlement                                     | 150,000          | 150,000        | 150,000        | 150,000        | 150,000        |
| FAA Entitlement - Carryover amount (needs verified) | 150,000          |                | 150,000        |                | 150,000        |
| FAA Apportionment                                   |                  |                | 334,500        |                |                |
| ODOT - Apron A Expansion                            |                  |                | 35,250         |                |                |
| ODOT - Apron B Expansion                            |                  | 351,500        |                |                |                |
| ODOT - Hangar A - F                                 | 450,705          |                |                |                |                |
| TIF Revenue   | 135,000          |                |                | 78,000         |                |
| <i>CIP Allocation (pg. 1)</i>                       | <b>157,703</b>   | <b>18,500</b>  | <b>35,250</b>  | <b>72,000</b>  | <b>100,000</b> |
| <b>TOTAL REVENUES</b>                               | <b>1,043,408</b> | <b>520,000</b> | <b>705,000</b> | <b>300,000</b> | <b>400,000</b> |
| <b>EXPENDITURES:</b>                                |                  |                |                |                |                |
| <i>City Non-Grant</i>                               |                  |                |                |                |                |
| Corporate Parking Lot Access Drive                  | 182,000          |                |                | 150,000        |                |
| <i>Grant Improvements</i>                           |                  |                |                |                |                |
| T/H Pavement Areas Resurfacing A - F                | 861,408          |                |                |                |                |
| T/H Pavement Areas Resurfacing G - I                |                  |                |                |                | 400,000        |
| Apron A Expansion                                   |                  |                | 705,000        |                |                |
| Apron B Rehabilitation                              |                  | 370,000        |                |                |                |
| <b>TOTAL EXPENDITURES</b>                           | <b>1,043,408</b> | <b>370,000</b> | <b>705,000</b> | <b>150,000</b> | <b>400,000</b> |
| <b>AIRPORT IMPR. FUND BALANCE</b>                   | <b>0</b>         | <b>0</b>       | <b>0</b>       | <b>0</b>       | <b>0</b>       |

|                            |   |         |        |         |        |
|----------------------------|---|---------|--------|---------|--------|
| <b>Entitlement Balance</b> | - | 150,000 | -      | 150,000 | -      |
| <b>TIF Balance</b>         | - | 26,000  | 52,000 | -       | 26,000 |

**INFORMATION AT  
A GLANCE**

-----  
COST  
\$ 182,000

-----  
FUNDING

TIF  
\$132,000  
LOCAL  
\$ 50,000  
-----

PROJECTED SCHEDULE

|                |      |
|----------------|------|
| Prelim. Design | 2018 |
| Final Design   | 2019 |
| Construction   | 2019 |

-----  
CITY LEAD  
Public Works

DESIGN CONSULTANT  
TBD

CONTRACTOR  
TBD  
-----

**Purpose**

Delaware Municipal Airport Jim Moore Field is a leading Central Ohio general aviation facility. It is home to approximately 100 aircraft and handles an estimated 40,000 operations per year. To encourage additional growth opportunities, City is partnering to construct an access drive for a new corporate hanger facility proposed for construction north of the Jet Steam hanger. This corporate expansion is consistent with the City's 10-year Airport Capital Improvement Plan. The hanger owners will be responsible to construct desired parking areas off the new drive. There will be a mowable ditch for drainage on either side of the proposed access drive that will drain to the south, outletting into the existing runway ditch. This ditch will be sized to carry the runoff from both the roadway and new parking lots. The airport fence will need adjusted to separate the parking areas from the runway, ramp and apron areas.

**Financing**

The project is anticipated to cost \$182,000 funded through a combination of Airport TIF and local funds. The TIF funds are generated from property taxes paid on the existing corporate hanger and the private t-hangers constructed at the airport. TIF proceeds must be used for public improvements at the Airport as identified when the TIF was originally established in 2004.

**Status**

The project is in early stages of development. When constructed, the drive will be 26-ft. wide and extend to the mid-point of the existing hanger. A potential construction scenario would involve construction by the proposed hanger developer with associated payment by the City to the Developer.



AUGUST 15, 2018

## AIRPORT RAMP A/B RECONSTRUCTION

### INFORMATION AT A GLANCE

-----

COST  
\$ 861,408

-----

#### FUNDING

|           |          |
|-----------|----------|
| FAA       | \$ 300 K |
| ODOT      | \$ 451 K |
| FAA Match | \$ 43 K  |
| LOCAL     | \$ 67 K  |

-----

### PROJECTED SCHEDULE

|                |      |
|----------------|------|
| Prelim. Design | 2018 |
| Final Design   | 2019 |
| Construction   | 2019 |

-----

CITY LEAD  
Public Works

DESIGN CONSULTANT  
CHA

CONTRACTOR  
TBD

-----

### Purpose

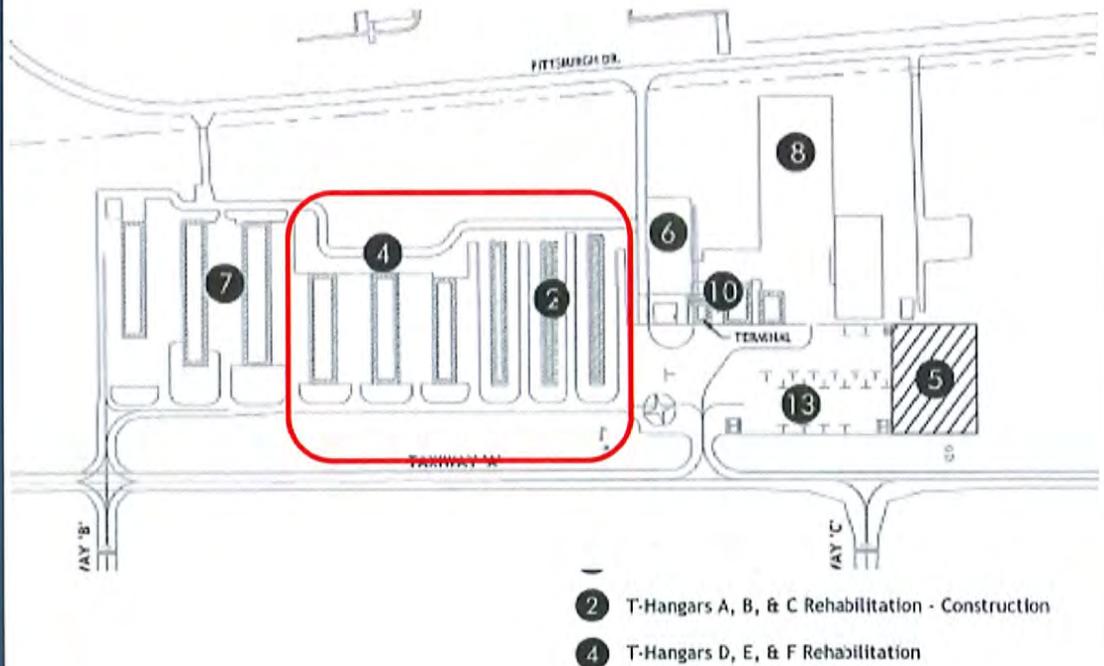
2019 T-hangers (A-F) Pavement Reconstruction. The latest pavement rating was completed in November 2016 and revealed that the pavement is in poor condition. Originally constructed in 1987, the pavement is over 25 years old and in need of rehabilitation.

### Financing

The project is anticipated to cost \$861,408. This project will be funded through a combination of FAA Entitlement Funds, ODOT grant funds, and Local funds. Of the local funds approximately \$43,000 is required as FAA Grant Matching funds and an additional \$67,000 is required for non-eligible pavement repairs. The pavement between the drive aisles and the hangers are not eligible for grant funds as they are defined by the FAA as privately maintained with exclusive use by the hanger tenant. If the ODOT grant application is not successful, only the portion around T-hanger "A" (#2 in map below) will be completed under this initiative.

### Status

The project is currently in the Grant Application phase.



**CAPITAL IMPROVEMENT PLAN  
STREET IMPROVEMENTS  
2019 - 2023**

|  | 2019             | 2020             | 2021           | 2022             | 2023             |
|--|------------------|------------------|----------------|------------------|------------------|
| <b>REVENUES:</b>                             |                  |                  |                |                  |                  |
| PERMISSIVE TAX (License Fee Fund)            | 416,242          | 420,404          | 424,608        | 428,854          | 433,143          |
| STATE LICENSE FEES                           | 18,211           | 18,393           | 18,577         | 18,763           | 18,950           |
| STATE GASOLINE TAXES                         | 85,000           | 85,000           | 85,000         | 85,000           | 85,000           |
| <b>CIP Allocation</b>                        | <b>1,066,135</b> | <b>660,828</b>   | <b>401,440</b> | <b>471,310</b>   | <b>866,407</b>   |
| <b>TOTAL REVENUE</b>                         | <b>1,585,587</b> | <b>1,184,625</b> | <b>929,625</b> | <b>1,003,927</b> | <b>1,403,500</b> |
| <b>EXPENDITURES:</b>                         |                  |                  |                |                  |                  |
| <b>DEBT SERVICE</b>                          |                  |                  |                |                  |                  |
| Bonds - S. Houk Road (through 2022)          | 31,023           | 29,625           | 29,625         | 28,927           | 0                |
| <b>TOTAL DEBT SERVICE</b>                    | <b>31,023</b>    | <b>29,625</b>    | <b>29,625</b>  | <b>28,927</b>    | <b>0</b>         |
| <b>STREET RESURFACING</b>                    |                  |                  |                |                  |                  |
| City Grant Match Street Resurfacing          | 405,000          | 155,000          | 325,000        | 305,000          | 653,500          |
| ODOT URP Street Resurfacing City Match       |                  | 175,000          |                | 120,000          | 200,000          |
| City Street Resurfacing -                    |                  |                  |                |                  |                  |
| Local Streets                                | 150,000          | 150,000          | 150,000        | 150,000          | 150,000          |
| Administrative/Inspection                    | 50,000           | 50,000           | 50,000         | 50,000           | 50,000           |
| <b>TOTAL STREET RESURFACING</b>              | <b>605,000</b>   | <b>530,000</b>   | <b>525,000</b> | <b>625,000</b>   | <b>1,053,500</b> |
| <b>TRANSPORTATION IMPROVEMENTS</b>           |                  |                  |                |                  |                  |
| City Grant Match Transportation Improvements | 572,564          | 75,000           | 25,000         |                  |                  |
| Point Project City Funds                     | 250,000          | 250,000          | 250,000        | 250,000          | 250,000          |
| US 23 Bin Wall Improvement                   |                  | 50,000           |                |                  |                  |
| Curtis St. Turn Lane                         | 27,000           |                  |                |                  |                  |
| Bridge Improvements                          | 50,000           | 50,000           | 50,000         | 50,000           | 50,000           |
| Signal Improvements (APS/Safety/RRFB)        | 25,000           | 25,000           | 25,000         | 25,000           | 25,000           |
| Springfield Branch Bridge Repair             |                  | 150,000          |                |                  |                  |
| Sidewalk Improvements (Complete Streets)     | 25,000           | 25,000           | 25,000         | 25,000           | 25,000           |
| <b>TOTAL TRANSPORTATION IMPROVEMENTS</b>     | <b>949,564</b>   | <b>625,000</b>   | <b>375,000</b> | <b>350,000</b>   | <b>350,000</b>   |
| <b>TOTAL EXPENDITURES</b>                    | <b>1,585,587</b> | <b>1,184,625</b> | <b>929,625</b> | <b>1,003,927</b> | <b>1,403,500</b> |

AUGUST 15, 2018

## US23/US36 EXIT BIN WALL IMPROVEMENT

(PID 98141 - DEL-23-11.89)

### INFORMATION AT A GLANCE

-----  
COST  
TBD

-----  
FUNDING

ODOT  
TBD

LOCAL  
\$50,000

-----  
PROJECTED SCHEDULE

Design      2018-2019  
Construction      2020

-----  
PROJECT LEAD  
ODOT

CITY LEAD  
Public Works

DESIGN CONSULTANT  
2LMN

CONTRACTOR  
TBD  
-----

### Purpose

ODOT District Six is leading a project to address the deteriorated metal retaining wall (Bin Wall) along the west edge of the off ramp from US 23 North to US 36 (William Street). Along with this work ODOT will patch the tops of the concrete parapets and back of the walls, replace the overlay on the approach slab and decks for the ramp bridge and repair the concrete slope protection along Delaware Run that passes under the area.

### Financing

ODOT will fund 100% of the bridge and retaining wall work necessary to complete the project. The City is requesting a decorative finish to the concrete be included as part of the project. The City of Delaware will be asked to participate and fund these aesthetic improvements to the wall face. ODOT will develop the plans with this in mind, and will isolate the costs of the aesthetic treatments. We are anticipating a cost of roughly \$50,000 for this work.

### Status

The project is currently in the survey and preliminary design phase. Construction is anticipated in 2020. Public Works, Parks and Planning are working closely with ODOT and their consultant on aesthetics and Maintenance of Traffic (MOT). The project will necessitate a ramp closure and major detour of US42, US36 and SR37. We are proposing a night time closure with one ramp lane open to traffic during the day. The times of night closure are to be 8:00 pm to 6:00 am.



AUGUST 15, 2018

## SPRINGFIELD BRANCH US 23 BRIDGE PIER REPAIR

### INFORMATION AT A GLANCE

-----  
COST  
\$150,000

-----  
FUNDING

LOCAL  
\$150,000  
-----

### PROJECTED SCHEDULE

Design            2019

Construction    2020  
-----

CITY LEAD  
Public Works

DESIGN CONSULTANT  
CT Consultants

CONTRACTOR  
TBD

### Purpose

This structure carries pedestrian traffic over US 23, the Olentangy River, and River Street. This bridge is a plate girder structure with a timber deck and asphalt overlay. This structure was recently inspected as a joint effort from E.P. Ferris and Burgess and Niple in May 2017 and was found to be in fair condition with a general rating of a 5. The most pressing need regarding the bridge is to address the two (2) deteriorated concrete piers within the footprint of US 23. Repairs are required to prevent both further deterioration and from spalled concrete from falling onto the adjacent highway pavement.

### Financing

\$50,000 budgeted for 2018 Bridge Maintenance is being utilized to develop plans, specifications, and an estimate for rehabilitating the two piers within US 23. A \$150,000 expenditure proposed in 2020 reflects an order of

magnitude estimate for repairing the two piers based on similar efforts by ODOT in other locations. More accurate estimates will be available in early 2019. As part of the consultant work, it is being proposed to complete an engineering analysis to compare the cost of long term maintenance of the existing structure versus



replacement with a new lightweight pedestrian structure similar to the pedestrian structure recently constructed over US 23 in Orange Township south of the City.

### Status

Design work is anticipated to commence this year and be completed in 2019. Construction is proposed for 2020.

**CAPITAL IMPROVEMENT PLAN  
GRANT PROJECTS  
2019 - 2023**

|   | 2019             | 2020           | 2021             | 2022           | 2023             |
|---|------------------|----------------|------------------|----------------|------------------|
| <b>REVENUES:</b>                                    |                  |                |                  |                |                  |
| <b>Grant Funds:</b>                                 |                  |                |                  |                |                  |
| ODOT Earmark E. William St.                         | 2,551,000        |                |                  |                |                  |
| MORPC - STP Funds -US36/E. William                  | 779,186          |                |                  |                |                  |
| MORPC - Signal Improvements                         |                  |                | 2,500,000        |                |                  |
| MORPC - Houk Rd.                                    |                  |                |                  |                | 609,000          |
| OPWC - Street Rehabilitation                        | 497,250          | 495,000        | 475,000          | 495,000        | 495,000          |
| County OPWC Project                                 | 125,000          | 50,000         | 50,000           | 50,000         | 50,000           |
| RLF Fund  | 30,000           |                | 30,000           |                | 30,000           |
| CDBG Rehabilitation                                 | 120,000          |                | 120,000          |                | 120,000          |
| US 36/E. William St. Water Fund Transfer            | 300,000          |                |                  |                |                  |
| <b>City Match Transportation Improvements Total</b> | <b>572,564</b>   | <b>75,000</b>  | <b>25,000</b>    |                |                  |
| <b>City Match Street Resurfacing</b>                | <b>405,000</b>   | <b>155,000</b> | <b>325,000</b>   | <b>305,000</b> | <b>653,500</b>   |
| <b>TOTAL REVENUE</b>                                | <b>5,380,000</b> | <b>775,000</b> | <b>3,525,000</b> | <b>850,000</b> | <b>1,957,500</b> |
| <b>EXPENDITURES:</b>                                |                  |                |                  |                |                  |
| <b>Transportation Improvements</b>                  |                  |                |                  |                |                  |
| US 36/E. William St. Improvements (Design)          | 4,250,000        |                |                  |                |                  |
| Signal Improvement Phase I                          |                  | 75,000         | 2,500,000        |                |                  |
| <b>Street Resurfacing</b>                           |                  |                |                  |                |                  |
| OPWC Projects                                       |                  |                |                  |                |                  |
| - Houk B+D, Union St.                               | 975,000          |                |                  |                |                  |
| - Belle Ave, Pittsburgh Drive                       |                  | 700,000        |                  |                |                  |
| - Hawthorn & Liberty                                |                  |                | 850,000          |                |                  |
| - Glenn (Ohio Health - Sycamore)                    |                  |                |                  | 850,000        |                  |
| - Pennsylvania/Lincoln                              |                  |                |                  |                | 912,500          |
| MORPC Grant   |                  |                |                  |                |                  |
| - Houk A+C  |                  |                |                  |                | 870,000          |
| CDBG Grant  |                  |                |                  |                |                  |
| - Birch, Wade, English & Pumphrey Terrace           | 155,000          |                |                  |                |                  |
| - Flax and Rheem Streets                            |                  |                | 175,000          |                |                  |
| - Todd/Delta/Parsons                                |                  |                |                  |                | 175,000          |
| <b>TOTAL EXPENDITURES</b>                           | <b>5,380,000</b> | <b>775,000</b> | <b>3,525,000</b> | <b>850,000</b> | <b>1,957,500</b> |



AUGUST 15, 2018

EAST WILLIAM STREET IMPROVEMENTS

**INFORMATION AT  
A GLANCE**

REMAINING COST  
\$ 4.25M

FUNDING

|         |           |
|---------|-----------|
| FEDERAL | \$2.55M   |
| MORPC   | \$800,000 |
| UTILITY | \$300,000 |
| LOCAL   | \$600,000 |

SCHEDULE

|                   |      |
|-------------------|------|
| Final Design      | 2018 |
| Land Acquisition  | 2018 |
| Utility Relocates | 2018 |
| Construction      | 2019 |

CITY LEAD  
Public Works

DESIGN CONSULTANT  
DLZ

CONTRACTOR  
TBD

**Purpose**

Project consists of widening E. William Street by adding a center turn lane from Potter Street to just east of Foley Street, and enlarging the intersection of William and Lake to better accommodate truck turning movements. Enlarging this intersection entails replacing the existing pedestrian bridge over William Street. The project will include street lighting, new sidewalks, enhanced landscaping and aesthetic improvements at the William and Lake intersection, and installation of a new mast arm traffic signal at Cheshire road replacing the existing signal at Ann St.

**Financing**

The project construction cost is currently estimated at \$4.25 million and is funded primarily through federal earmark and federal-aid Surface Transportation Program (STP) funds. The local share is currently \$900,000, of which \$300,000 will be covered through Utility Funds for water line and storm sewer work. The remaining balance of \$600,000 will be covered through general revenues, though staff continues to work with state agencies in identifying additional funds to reduce the local commitment. The final cost estimate is anticipated later in 2018 and may increase subject to the inclusion of additional landscape enhancements and decorative retaining walls at the Lake Street pedestrian bridge.

**Status**

Design of the project will be complete in August of 2018. Land acquisition for the project consists of roughly 60 small strips of property adjacent existing sidewalks. This phase of the project is also scheduled to be complete in August of 2018, at which point private utility companies are scheduled to start relocating power poles and underground lines. Private utilities must be relocated by the beginning of 2019 to make way for full construction starting in the Spring of 2019. The project will take only one construction season to complete. The City will be responsible for project bidding, award, and construction administration.

**INFORMATION AT A  
GLANCE**

-----

COST  
\$3.0 M

-----

**FUNDING**

MORPC      \$2.5M  
LOCAL      \$500,000

-----

**PROJECTED SCHEDULE**

Prelim. Design    2018  
Environmental    2018  
Final Design      2019  
Land Acquisition 2020  
(If Needed)  
Construction    2021

-----

CITY LEAD  
Public Works

DESIGN CONSULTANT  
HDR, INC

CONTRACTOR  
TBD

-----

**Purpose**

The project consists of upgrading signal systems along US-36 (William St), SR-37 (Central Ave), Sandusky St and London Rd, which includes 37 signalized intersections. The project will improve safety and reduce emissions by improving average travel speed and reducing delay at each signalized intersection. The upgrades include optimizing traffic signal timing for each corridor and at each intersection, system level improvements including a central software system & CCTV IP-camera system, signal equipment upgrades including cabinets/controllers, communication (fiber or spread spectrum radios), vehicle detection, emergency vehicle pre-emption, uninterruptible power supply and insuring the equipment is expandable for peripherals & future technology (i.e. wireless pavement temperature sensors, cameras, DSRC, Connected Vehicles, etc.), and pedestrian upgrades such as curb ramps and pedestrian pedestal & pushbutton replacements to meet ADA standards. Additional upgrades may include upgrading signal heads with back-plates if it is determined that existing signal poles are adequately designed to structurally support such.

**Financing**

The project is anticipated to cost roughly \$3.0M. The City has been awarded funding through MORPC for \$2.5M to cover 100% of the construction of the project. The City's local contribution will be \$0.5M, which will consist of approximately \$325,000 to cover preliminary and final design, ROW acquisition, and utility relocations (if needed), and \$175,000 of in-house services to cover the construction management, and inspection during construction.



**Status**

The project is currently in part one of the design, which includes traffic data collection, survey and preliminary design work. The remainder of 2018 will consist of analyzing the traffic data collected to develop updated optimized signal timing plans to coordinate the traffic signals along each corridor throughout each day of the week, determining needed equipment improvements required at each signalized



intersection, developing a project webpage to keep the public informed of the progress of the project and developing preliminary design plans.

AUGUST 15, 2018

## OVER HEIGHT VEHICLE DETECTION SYSTEM

### INFORMATION AT A GLANCE

COST  
\$165,000

#### FUNDING

State Safety Funds  
\$165,000

### PROJECTED SCHEDULE

|                  |      |
|------------------|------|
| Prelim. Design   | 2015 |
| Environmental    | 2015 |
| Final Design     | 2015 |
| Land Acquisition | N/A  |
| Permitting       | 2018 |
| Construction     | 2018 |

CITY LEAD  
Public Works

DESIGN CONSULTANT  
City In-house Services

CONTRACTOR  
Perram Electric, Inc &  
City of Delaware

### Purpose

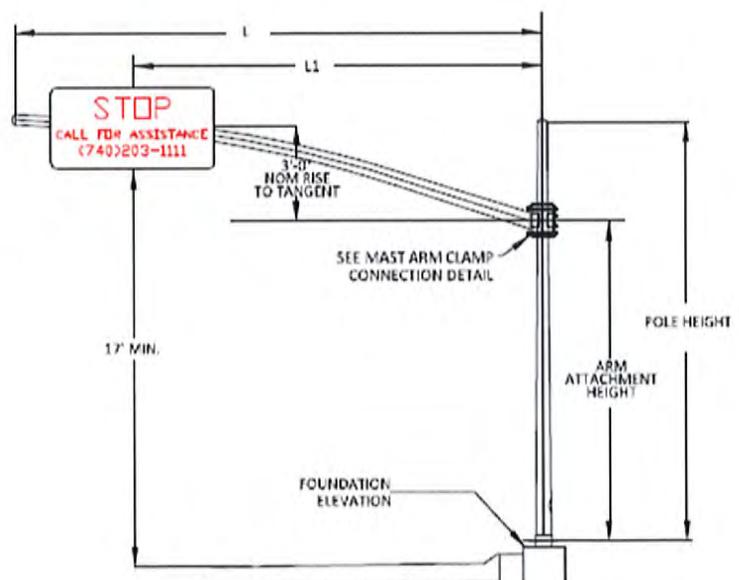
The project consists installing an over height vehicle detection system in advance of the W. Central Avenue low-clearance railroad bridge located between Morning Street and Euclid Avenue, known locally as the Delaware Can Opener. The project will improve safety by reducing the risk of over height vehicles colliding with the low clearance bridge. Over height vehicles will be detected by dual infrared beam sensors located at either W. Central Avenue & Grady Access Drive or at W. Central Avenue & Euclid Avenue, depending on its direction of travel, which will then activate message signs in advance of the bridge directing them to "stop" and call the Police Department for assistance in turning around. The project also consists of updating and replacing the "Truck Route" signage to direct over-height vehicles to other routes around the low clearance bridge.

### Financing

The project is anticipated to cost roughly \$165,000. The City has been awarded funding through an ODOT Safety Grant to cover 100% of the cost of materials. The City's local contribution has consisted of the design/preparation of the engineering plans for the project and in-house staff will assist with a portion of the installation of static truck route signage and the over height vehicle detector units and associated wiring.

### Status

The project is currently under construction, and will be completed by the end of July of 2018.



**CAPITAL IMPROVEMENT PLAN  
POINT RAILROAD BRIDGE REPLACEMENT  
2019 - 2027**

|  | 2019             | 2020             | 2021              | 2022              | 2023             | 2024             | 2025           | 2026           | 2027           |
|--|------------------|------------------|-------------------|-------------------|------------------|------------------|----------------|----------------|----------------|
| <b>BALANCE FORWARD</b>                             | 3,553,889        | 1,611,153        | 1,481,750         | 290,697           | 246,481          | 46,189           | 122,309        | 149,862        | 178,868        |
| <b>REVENUES:</b>                                   |                  |                  |                   |                   |                  |                  |                |                |                |
| TRAC Grant (75/25)                                 |                  | 1,500,000        |                   |                   |                  |                  |                |                |                |
| MORPC Grant (80/20)                                |                  |                  |                   | 13,279,467        |                  |                  |                |                |                |
| Berkshire JEDD Income Tax Receipts                 | 85,000           | 90,000           | 91,350            | 92,720            | 94,111           | 95,523           | 96,956         | 98,410         | 99,886         |
| Outlet Center NCA (1.5 mills)                      | 55,597           | 55,597           | 55,597            | 55,597            | 55,597           | 55,597           | 55,597         | 55,597         | 55,597         |
| City Funds   | 250,000          | 250,000          | 250,000           | 250,000           | 250,000          | 250,000          | 250,000        | 250,000        | 250,000        |
| Note Issue Proceeds                                |                  |                  | 18,400,000        | 5,000,000         | 4,500,000        |                  |                |                |                |
| Bond Issue Proceeds                                |                  |                  |                   |                   |                  | 4,250,000        |                |                |                |
| <b>TOTAL REVENUES</b>                              | <b>390,597</b>   | <b>1,895,597</b> | <b>18,796,947</b> | <b>18,677,784</b> | <b>4,899,708</b> | <b>4,651,120</b> | <b>402,553</b> | <b>404,007</b> | <b>405,483</b> |
| <b>EXPENDITURES:</b>                               |                  |                  |                   |                   |                  |                  |                |                |                |
| <b>DEBT SERVICE</b>                                |                  |                  |                   |                   |                  |                  |                |                |                |
| Note Principal & Interest                          |                  |                  |                   |                   |                  |                  |                |                |                |
| Bond Principal & Interest (\$4.25M, 15 yrs, 3.75%) |                  |                  |                   | 18,722,000        | 5,100,000        | 4,575,000        |                |                |                |
| <b>IMPROVEMENT COSTS</b>                           |                  |                  |                   |                   |                  |                  | 375,000        | 375,000        | 375,000        |
| Final Engineering (PE DD)                          | 2,333,333        |                  |                   |                   |                  |                  |                |                |                |
| Railroad Force Account                             |                  | 25,000           | 1,500,000         |                   |                  |                  |                |                |                |
| ROW  |                  | 2,000,000        |                   |                   |                  |                  |                |                |                |
| Construction                                       |                  |                  | 17,638,000        |                   |                  |                  |                |                |                |
| Construction Engineering                           |                  |                  | 750,000           |                   |                  |                  |                |                |                |
| Private Utilities                                  |                  |                  | 100,000           |                   |                  |                  |                |                |                |
| <b>TOTAL EXPENDITURES</b>                          | <b>2,333,333</b> | <b>2,025,000</b> | <b>19,988,000</b> | <b>18,722,000</b> | <b>5,100,000</b> | <b>4,575,000</b> | <b>375,000</b> | <b>375,000</b> | <b>375,000</b> |
| <b>ENDING BALANCE</b>                              | <b>1,611,153</b> | <b>1,481,750</b> | <b>290,697</b>    | <b>246,481</b>    | <b>46,189</b>    | <b>122,309</b>   | <b>149,862</b> | <b>178,868</b> | <b>209,352</b> |

**INFORMATION AT  
A GLANCE**

-----

COST  
\$ 25.2M

-----

**FUNDING**

|          |         |
|----------|---------|
| MORPC    | \$13.3M |
| TRAC     | \$ 1.5M |
| SAFETY   | \$ 3.0M |
| JEDD/NCA | \$1.0M  |
| LOCAL    | \$6.4M  |

-----

**PROJECTED SCHEDULE**

|                  |         |
|------------------|---------|
| Prelim. Design   | 2018    |
| Environmental    | 2019    |
| Final Design     | 2020    |
| Land Acquisition | 2021    |
| Permitting       | 2021-22 |
| Construction     | 2022-24 |

-----

CITY LEAD  
Public Works

DESIGN CONSULTANT  
Gannett Fleming

CONTRACTOR  
TBD

-----

**Purpose**

The project will relieve congestion and increase safety along US 36 and SR 37 by increasing the number of vehicular lanes beneath the Norfolk Southern Railroad bridge. The western project limit on SR 37 is Channing Street. The western project limit on US 36 is Foley Street. The project will include extensive multi-use path improvements, as well. This project is one of several key improvement projects on the east side of the City designed to address traffic concerns specifically during peak traffic hours.

**Financing**

The project is anticipated to cost \$25.2M. The City has secured both State and Federal funding sources, outside of local general funds, to cover 75% of the total project cost. City staff will continue to pursue additional grant and funding opportunities as the project progresses, in an effort to reduce the estimated \$6.4M local funding contribution necessary for the project to advance through construction.

**Status**

The project is currently in the survey phase of both the roadway and railway above. Also, soil exploration is being performed. The remainder of 2018 will include advancement of preliminary design, alternatives analysis, stakeholder meetings, and public involvement. Public involvement will utilize several different media platforms and will culminate in an open house/public hearing, most likely in late 2018.



**CAPITAL IMPROVEMENT PLAN  
PARKS IMPROVEMENT FUND  
2019 - 2023**

|                                 | 2019           | 2020          | 2021          | 2022          | 2023         |
|---------------------------------|----------------|---------------|---------------|---------------|--------------|
| <b>BALANCE FORWARD</b>          | 138,000        | 0             | 0             | 0             | 0            |
| <b>REVENUES:</b>                |                |               |               |               |              |
| Neighborhood Park Exaction Fees | 5,000          | 5,000         | 5,000         | 5,000         | 5,000        |
| Park Improvement Grants         |                | 25,000        | 20,000        | 20,000        |              |
| <i>CIP Allocation (pg. 1)</i>   | <b>85,900</b>  | <b>54,000</b> | <b>40,000</b> | <b>30,000</b> | <b>0</b>     |
| <b>TOTAL REVENUES</b>           | <b>90,900</b>  | <b>84,000</b> | <b>65,000</b> | <b>55,000</b> | <b>5,000</b> |
| <b>EXPENDITURES:</b>            |                |               |               |               |              |
| COMMUNITY PARKS                 |                |               |               |               |              |
| - Mingo                         |                | 20,000        |               |               |              |
| - Smith Park                    |                | 15,000        |               |               |              |
| - Blue Limestone                |                | 15,000        |               |               |              |
| Roof Replacement                | 30,900         | 34,000        | 10,000        |               |              |
| NEIGHBORHOOD PARK IMPROVEMENTS  |                |               |               |               |              |
| - Cheshire                      |                |               | 25,000        | 25,000        |              |
| - Eastside                      | 30,000         |               |               |               |              |
| - Lexington Glen                | 10,000         |               |               |               |              |
| - Nottingham                    | 20,000         |               |               |               |              |
| - Oakhurst                      |                |               | 30,000        | 30,000        |              |
| - Willowbrook Park              | 138,000        |               |               |               |              |
| <b>TOTAL EXPENDITURES</b>       | <b>228,900</b> | <b>84,000</b> | <b>65,000</b> | <b>55,000</b> | <b>0</b>     |
| <b>ENDING FUND BALANCE</b>      | <b>0</b>       | <b>0</b>      | <b>0</b>      | <b>0</b>      | <b>5,000</b> |



AUGUST 15, 2018

## FACILITY REHABILITATION

### INFORMATION AT A GLANCE

-----

#### COST

2019- \$30,900

2020- \$34,000

2021- \$10,000

#### FUNDING

Park Improvement Fund  
\$74,900

-----

#### CITY LEAD

JP Linkous

(740)-203-1402  
[jlinkous@delawareohio.net](mailto:jlinkous@delawareohio.net)

### Project Title: Roof Replacement

**Project Justification:** The existing shingle roofs have aged to the point of needing replaced. The recommendation is to replace with metal roofs that will extend the life to 40-50 years.

### Financing

The projects are anticipated to cost roughly \$30,900 for two shelter roofs. The City has identified the parks improvement funds to replace the equipment.

#### Year: 2019

### Smith Park

**Estimated Project Cost: \$30,900.00**

**Project Description** –replace Smith Park shelter roofs, north and south, with metal roofs.

**Status:** Bids will be requested spring 2019 with construction in the summer of 2019.

#### Year: 2020

### Bennett Park

**Estimated Project Cost: \$17,000.00**

**Project Description** –replace shelter roof with metal roof. The Bennett Park Shelter roof has shown aging signs and has increasingly required staff time to fix leaks. The proposed metal roof will have a longer life span.

**Status:** Bids will be requested spring/summer 2020 with construction in the fall of 2020.

### Mingo Park

**Estimated Project Cost: \$17,000.00**

**Project Description** –replace Rotary Shelter roof with metal roof. The Rotary Shelter roof has shown aging signs and has increasingly required staff time to fix leaks. The proposed metal roof will have a longer life span.

**Status:** Bids will be requested spring/summer 2020 with construction in the fall of 2020.

#### Year: 2021

**Mingo Park**

**Estimated Project Cost: \$10,000.00**

**Project Description** -replace dugout roofs with metal roof.

**Status**

Bids will be requested spring 2021 with construction in the summer of 2021.

**CAPITAL IMPROVEMENT PLAN  
EQUIPMENT REPLACEMENT FUND  
2019 - 2023**

|                                     | 2019    | 2020    | 2021    | 2022    | 2023    |
|-------------------------------------|---------|---------|---------|---------|---------|
| <b>BALANCES FORWARD</b>             | 163,635 | 34,212  | 28,939  | 14,089  | 12,060  |
| <b>REVENUES:</b>                    |         |         |         |         |         |
| <i>CIP Allocation (pg. 1)</i>       | 650,000 | 650,000 | 650,000 | 650,000 | 650,000 |
| <b>TOTAL REVENUE</b>                | 650,000 | 650,000 | 650,000 | 650,000 | 650,000 |
| <b>EXPENDITURES:</b>                |         |         |         |         |         |
| <b>PUBLIC WORKS</b>                 |         |         |         |         |         |
| Pickup Trucks                       |         | 31,000  | 31,000  |         | 50,000  |
| Bucket Truck                        | 130,000 |         |         |         |         |
| Tandem Axle Dump Truck              |         |         | 192,000 |         |         |
| Single Axle Dump Truck              | 170,000 | 170,000 | 170,000 | 170,000 | 170,000 |
| Backhoe                             |         | 90,000  |         |         |         |
| Skid Steer                          | 53,100  |         |         |         |         |
| Asphalt Hotbox Unit                 | 80,000  |         |         |         |         |
| Asphalt Paver                       |         |         |         | 185,000 |         |
| Utility Van                         |         | 25,000  |         |         |         |
| <b>TOTAL PUBLIC WORKS</b>           | 433,100 | 316,000 | 393,000 | 355,000 | 220,000 |
| <b>PARKS AND RECREATION</b>         |         |         |         |         |         |
| Pickup Trucks                       | 35,668  | 37,451  |         |         |         |
| Skid Steer                          |         |         | 45,373  |         |         |
| Park Mowers                         | 29,355  | 30,822  | 31,747  | 32,699  | 33,750  |
| Flail/Rotary/Woods Mower            | 42,000  | 15,000  |         |         |         |
| Hillside Mower                      | 35,000  |         |         |         |         |
| Bucket Truck                        |         | 80,000  |         |         |         |
| Chipper/Stump Grinder               |         |         |         | 65,330  |         |
| <b>TOTAL PARKS AND RECREATION</b>   | 142,023 | 163,273 | 77,120  | 98,029  | 33,750  |
| <b>AIRPORT</b>                      |         |         |         |         |         |
| Mower                               | 16,000  |         |         | 18,000  |         |
| <b>TOTAL AIRPORT</b>                | 16,000  | 0       | 0       | 18,000  | 0       |
| <b>POLICE DEPARTMENT</b>            |         |         |         |         |         |
| Police Cruiser Replacements (3/yr.) | 143,000 | 145,000 | 147,000 | 149,000 | 149,000 |
| Detective/Administration Vehicle    | 31,000  | 31,000  | 32,000  | 32,000  | 32,000  |
| <b>TOTAL POLICE</b>                 | 174,000 | 176,000 | 179,000 | 181,000 | 181,000 |
| <b>CEMETERY</b>                     |         |         |         |         |         |
| Mower Replacement                   | 14,300  |         | 15,730  |         |         |
| <b>TOTAL CEMETERY</b>               | 14,300  | 0       | 15,730  | 0       | 0       |
| <b>TOTAL EXPENDITURES</b>           | 779,423 | 655,273 | 664,850 | 652,029 | 434,750 |
| <b>CARRY OVER BALANCE</b>           | 34,212  | 28,939  | 14,089  | 12,060  | 227,310 |



AUGUST 15, 2018

## STREET MAINTENANCE AND REPAIR EQUIPMENT REPLACEMENT

### INFORMATION AT A GLANCE

-----

5 YEAR TOTAL COST  
\$1,723,600

#### PROJECTED SCHEDULE

2019 - \$359,600

2020 - \$316,000

2021 - \$393,000

2022 - \$435,000

2023 - \$220,000

### Purpose

The Public Works Street Division operates over 70 different types of equipment and trucks during different times of the year ranging from dump trucks, pickup trucks, backhoes, skid steers, rollers, trailers, and plate compactors. All have a useful life expectancy and are replaced at the final determination of the fleet supervisor in consideration of general condition, maintenance costs and safety.

**Asphalt Hot Box:** The Public Works Street Division operates the Asphalt Hot Box primarily during winter-time operation to haul hot asphalt for pavement repairs. This unit works in conjunction with the asphalt recycler, which allows us to make asphalt to fill potholes and small asphalt repairs. This unit can also be utilized in the summer when a large dump truck would be too large. Replacement is anticipated in 2022 at a cost of \$80,000.

**Skid Steer:** Replacement of two skid steers #399 Case 2002 model and #429 Case 2004 model with a single new unit. New unit will be compatible with existing skid steer remaining in fleet regarding operation, attachments, service and repairs. Total cost for one new unit less trade in of the two skid steers is estimated replacement cost: \$53,100.

**Backhoe:** The Public Works Street Division operates the backhoe for asphalt projects ranging from base repair work, total roadway paving projects, parking lot paving, bike path installation, concrete work - ADA installation and sidewalk. This unit also assists in Emergency responses - tree removal during major storms. This unit was purchased in 2005 and is currently due to be replaced in 2020 at a cost of \$90,000 assuming a \$22,000 trade-in value.

**Single Axle Dump Trucks:** The Public Works Street Division operates multiple dump trucks for daily operations including road maintenance, concrete repairs, and winter snow and ice management. Trucks have a useful service life of 10 years. Five trucks will be rotated out of service over the next five years including #484 (2019); #485 (2020); #517 (2021); #551 (2022) and #635 (2023). New trucks are each equipped with a 120-inch plow, salt spreader, controls; lighting/radio at a cost of \$170,000 each.

**Tandem Axle Dump Trucks:** The Public Works Street Division operates tandem axle trucks with carrying capacity up to 18 tons. These trucks can facilitate street maintenance work and highway plowing with larger blades on state routes. Trucks have a useful service life of 10-years. Truck #605, a

2011 tandem truck will be replaced with the new truck, including a 132-inch blade, salt spreader with controls; lighting/radio at a cost of \$192,000.

**Asphalt Paver:** The Public Works Street Division operates the street paver for asphalt projects ranging from base repair work, total roadway paving projects, parking lot paving, and bike path installation. This unit was purchased in 1999 and currently due to be replaced in 2022 at an estimated cost of \$185,000.

**Tack Machine:** The Public Works Street Division operates the 2003 Marathon tack machine primarily during summertime operation to tack existing asphalt area to allow new asphalt to bond with new. This unit works in conjunction with the asphalt recycler and paver. Purchase in 2019 at a cost of \$6,500.

**½ Ton Pickup Trucks:** The Public Works Engineering Division utilizes compact pickup trucks for daily assignments in the provision of construction inspections throughout the city. The useful life of these vehicles can be as long as 20 years. Trucks being replaced: #336 (2020) and #341 (2021); Both 2000 Dodge Dakotas. Replacement cost is \$31,000 each, including bed cover, tool box, and warning lights.

**¾ Ton Pickup Truck:** The Public Works Streets and Traffic Divisions use commercial duty full-size pickup trucks for daily work, including carrying staff, supplies and equipment to various job locations. Trucks are also used for winter snow and ice maintenance operations and accordingly are equipped with 84-inch plows. The useful life of these vehicles is typically 15-years. Truck being replaced: #520, 2008 F250 (2023). Replacement cost is \$50,000 each and includes plow blades, controls and warning lighting.

**Bucket Truck:** The Public Works Traffic Division operates bucket trucks to service the traffic signals, lighting and other overhead appurtenances, often requiring two vehicles for many maintenance and replacement operations. The 2008 F550 Bucket Truck is proposed for replacement in 2019 based on age and safety. Cost of replacement estimated at \$130,000.

**Service Van:** The Public Works Facilities Division performs daily tasks in several public facility locations throughout the community, traveling with tools, equipment, and supplies in service vans. Proposed for replacement in 2020 is #326, a 2000 Chevy full-size van, at an estimated cost of \$25,000.

**CAPITAL IMPROVEMENT PLAN  
TECHNOLOGY IMPROVEMENTS  
2019 - 2023**

|   | 2019    | 2020    | 2021    | 2022    | 2023    |
|---|---------|---------|---------|---------|---------|
| <b>REVENUES:</b>                                  |         |         |         |         |         |
| <i>CIP Allocation (pg. 1)</i>                     | 275,300 | 335,300 | 365,300 | 345,300 | 345,300 |
| <b>TOTAL REVENUE</b>                              | 275,300 | 335,300 | 365,300 | 345,300 | 345,300 |
| <b>EXPENDITURES:</b>                              |         |         |         |         |         |
| <b>Equipment Acquisition</b>                      |         |         |         |         |         |
| PC Replacement                                    | 30,000  | 30,000  | 30,000  | 30,000  | 30,000  |
| Copier Replacement                                | 20,000  | 20,000  | 20,000  | 20,000  | 20,000  |
| <b>Internal Network Acquisition</b>               |         |         |         |         |         |
| Network Switch and Firewall Replacements          | 10,800  | 20,800  | 10,800  | 10,800  | 10,800  |
| Data Storage Acquisition                          |         |         | 40,000  | 20,000  | 20,000  |
| <b>External Nework Infrastructure</b>             |         |         |         |         |         |
| Fiber System Expansion                            |         | 50,000  | 50,000  | 50,000  | 50,000  |
| <b>Software Application Acquisition/Retention</b> |         |         |         |         |         |
| Finance ERP System (\$770k, 5 yrs.)               | 165,000 | 165,000 | 165,000 | 165,000 | 165,000 |
| Document Management (\$230k, 5 yrs.)              | 49,500  | 49,500  | 49,500  | 49,500  | 49,500  |
| <b>TOTAL EXPENDITURES</b>                         | 275,300 | 335,300 | 365,300 | 345,300 | 345,300 |

-----  
Cost: \$30,000 annually  
2019-2023  
-----

### **PC Replacement**

This project allows for the City to refresh our desktop and laptop computers on a rotating annual basis. By cycling out the oldest computers each year we are able to keep the technology current and working efficiently for City employees. The life expectancy today for a traditional desktop or laptop computer is 5 years.

-----  
Cost: \$20,000 annually  
2019-2023  
-----

### **Copier/Scanner Replacement**

The City continues to replace the oldest multi-function copiers in service. This project will continue annually rotating out machines to keep functioning equipment available for City employees.

-----  
Cost: \$20,000 2020  
\$10,000 2021  
-----

### **City Hall Data Center – Cooling and Generator Replacements**

The increased utilization of technology and the need for it to be highly available, requires a more reliable data center within City Hall. The City Hall data center acts as the hub for server and storage communications for the City's network and will continue to do so for the long term. To ensure the data center in City Hall will provide this service to City employees it is necessary to address both cooling and backup power needs. The current air conditioning unit is reaching its end of life and could realize a prolonged life by adding a second unit that would allow for load balancing between the two units. That addition is planned for 2020. The backup generator would then follow in 2021 to replace the current unit that is aging and potentially less reliable. The new unit would be better suited for our environment and would have the capability to remotely monitor its operation.

-----  
Cost: \$10,000 2020  
-----

### **Firewall Replacement**

The firewall replacement project is anticipated to occur in 2020. The current City Hall firewall will have reached its capacity in 2 years. The growing need for bandwidth and external access to City resources would be limited by the current equipment. The current firewall does not allow for any increase in speed or resources.

### **Switch Replacement**

-----  
Cost: \$10,800 annually  
2019-2023  
-----

In 2017 a network switch replacement project began allowing for the IT department to replace core network switches within City Hall and the Justice Center. Beginning in 2018 and moving through the next several years this project will continue to replace switches in our 'edge' facilities that were not included in the initial purchase. Moving forward the replacement cycle for these switches will be based on several factors including but not limited to operational capacity, availability of support and updates. The core switches will begin the review process after 4 years in service with the potential to be replaced after 5 years depending on the outcome of the review. The edge switches will be reviewed after 5 years with the potential to be replaced after 6 years in service.

### **Virtual Service Acquisition**

In moving towards a more redundant and highly available environment, this project will allow us to provide both an offsite location to failover to in the event of a disaster as well as a secondary location for server load balancing. The initial purchase in 2019 will provide for server capacity at an off-site location near Columbus. This secondary location allows for both short term and long term failover for critical systems in the event of failure at either City Hall or the Justice Center. The second purchase in 2020 will further improve our capabilities at the off-site location for all critical and non-critical services. Having this capability reduces the risk of any lengthy downtime and potential disruption of City services.

-----  
Cost: \$18,000  
2019-2020  
-----

### **Data Storage Acquisition**

In addition to server needs for redundancy and high availability, additional storage will also be required. Not only is data continually growing, requiring additional storage to be purchased, it also needs to be backed-up at an off-site location. The equivalent amount storage will be necessary in our off site, secondary location to provide the same level of service for City employees in the event of failure or load balancing efforts. The IT department will continue to assess the storage needs to be sure requirements are met for City applications. Both cloud and in house options will be assessed on a case by case basis to ensure the most efficient, cost effective systems are implemented.

-----  
Cost: \$40,000 2021  
\$20,000 2022  
\$20,000 2023  
-----

### **WatchGuard System Renewal/Replacement**

The WatchGuard system which provides in-vehicle recording capabilities for both our Police and Fire departments is set to go out of warranty and its contracted support will expire in March of 2020. It is recommended that the system be reviewed in 2019 for the potential purchase of replacement equipment and/or renewal of software support in 2020.

-----  
Cost: \$27,000 2020  
-----

### **Telephone Hardware Replacement**

-----  
Cost: \$25,000  
2020-2023  
-----

The City's current phone system is 11+ years old, as is the hardware including phones and switches. The need to replace this aging equipment will begin to be addressed in 2020 and continue through at least the next 3-4 years after.

### **Fiber System Expansion**

In the previously mentioned efforts to provide a redundant and highly available server infrastructure, the network itself cannot be overlooked. Currently in many City locations there is one connection or 'backbone' leading to our main hub in City Hall. In other locations we have outlying buildings that do not have fiber connections at all, they are reliant on wireless connections that are not as reliable. To protect the network from issues such as fiber cuts or other outages it is necessary to implement, where possible, redundant connections to our primary location in City Hall. Having multiple paths to City Hall allows for network traffic to be rerouted with minimal impact and downtime for City applications.

-----  
Cost: \$50,000  
2019-2023  
-----

### **Desktop Software Upgrades**

Both the Windows Operating system as well as Microsoft Office serve as critical applications used through the City on desktops and laptops. These applications have an 'end of life' date at which point Microsoft will no longer provide critical security updates to the software. The majority of City workstations are running Windows 7 and either Microsoft Office 2013, 2010 or in some cases older versions of the software. In January 2020 support and security updates for Windows 7 will not be provided, making it necessary to have all workstations upgraded to the current version of Windows 10. This will be done through a combination of our PC Replacement plan, already available upgrade licenses or through the purchase of new upgrade licenses. This will need to be completed by the end of 2019. In October of 2020 support and security updates will not be provided for any Microsoft Office version 2013 or older. This will require purchases of new Office 2016 licenses that can potentially be split between 2019 and the earlier months of 2020 to meet the end of life date of October 2020. Keeping a consistent platform across all City workstations allows for ease of support by IT staff as well as data compatibility between City employees. This also reduces the risk for security vulnerabilities on our workstations.

-----  
Cost: \$24,000 2019  
\$20,000 2020  
-----

### **Exchange (email System) Software Upgrade**

The end of support for our Exchange 2010 email system occurs in January 2020. It will be a significant risk to the City email system if it is not upgraded in 2019 to a more current platform. There are currently two main upgrade options moving forward for our email application. Microsoft offers both a cloud version Office 365 as well as their Exchange 2016 on

-----  
Cost: \$85,000 2019  
-----

premise option. IT will evaluate both options and work to choose the best option for the City's needs moving forward.

### **Microsoft Server 2016**

The end of support for our Windows Server 2008 software occurs in January 2020. It will be a significant risk to the City servers running this version of the operating system if it is not upgraded in 2019 to a more current platform before end of support.

### **Document Management**

At the end of 2017, beginning of 2018 a document management team was formed with representation from most departments in the City. The team met on several occasions gathering information both internally as well as from neighboring cities to decide whether or not a document management system was an initiative the City should take on. The concluding recommendation from the team was to continue the process of developing a plan for purchasing (RFP) and then implementing a document management system. An RFP would be developed in 2019 with first phase purchase and implementation scheduled for 2020. Additional modules to be add thru 2023.

-----  
Cost: \$8,000 2019  
-----

-----  
Cost: \$100,000 2020  
\$50,000 2021  
\$40,000 2022-2023  
-----

**CAPITAL IMPROVEMENT PLAN  
BUILDING MAINTENANCE IMPROVEMENTS  
2019 - 2023**

|   | 2019    | 2020    | 2021    | 2022    | 2023    |
|---|---------|---------|---------|---------|---------|
| <b>REVENUES:</b>                                |         |         |         |         |         |
| <i>CIP Allocation (pg. 1)</i>                   | 311,000 | 171,000 | 115,000 | 145,000 | 300,000 |
| <b>TOTAL REVENUE</b>                            | 311,000 | 171,000 | 115,000 | 145,000 | 300,000 |
| <b>EXPENDITURES:</b>                            |         |         |         |         |         |
| Carpet Replacement                              | 35,000  | 25,000  | 25,000  | 25,000  | 25,000  |
| Justice Center HVAC/Other Building Improvements | 175,000 | 25,000  | 25,000  | 25,000  | 25,000  |
| Roof Repairs City Hall, Justice Center          |         |         |         | 70,000  | 35,000  |
| Justice Center Interior Painting                |         | 25,000  | 25,000  | 25,000  |         |
| City Hall Interior Painting                     |         |         |         |         | 25,000  |
| EM Backup Generators - Justice, City Hall       | 61,000  | 61,000  |         |         | 150,000 |
| Public Works Building                           |         |         |         |         |         |
| - Exterior Wall Repair                          |         | 35,000  |         |         |         |
| - Fire Suppression System                       | 40,000  |         | 40,000  |         | 40,000  |
| <b>TOTAL EXPENDITURES</b>                       | 311,000 | 171,000 | 115,000 | 145,000 | 300,000 |



AUGUST 15, 2018

## FACILITIES MAINTENANCE, REPAIR AND REPLACEMENT

### INFORMATION AT A GLANCE

-----

5 YEAR TOTAL COST  
\$1,047,000

#### PROJECTED EXPENSES

2019 - \$315,000

2020 - \$171,000

2021 - \$116,000

2022 - \$145,000

2023 - \$300,000

### Purpose

The Public Works Facilities Division maintains the buildings and systems for several City facilities, including Public Works, Justice Center, City Hall, 10 & 20 E William Street, and a condominium building on W. Central Avenue. The projects listed below are identified building and equipment improvements necessary for the ongoing upkeep and maintenance of these facilities.

### Financing

All repairs to the facilities managed through the Public Works Department are funded through general revenues.

### Status

**Justice Center Emergency Backup Generators:** The Justice Center is supported by two emergency backup generators, one for the Courts facilities and one dedicated to Police operations. Both units are original to the construction of the facility in 1992 and have exceeded their respective 15 to 20 year service life. Units will be replaced over the next two years (2019 & 2020) with new Kohler 180 kw diesel fuel operated units at a cost of \$61,000 each.

**City Hall Emergency Backup Generators:** City Hall is not currently supported by emergency power. To better prepare for future emergency situations requiring the continued operation of vital local government operations, the installation of an emergency generator is being proposed in 2023. The installation would include the unit, power transfer switch and all necessary electrical circuit upgrades necessary for the installation to be complete. The estimated cost of the total installation is \$150,000

**Fire Suppression Systems:** All public buildings are outfitted with fire suppression systems that require periodic maintenance, repair, and at times replacement of key components. The Public Works Facility requires replacement of main distribution piping original to the construction of the facility 60 years ago. As the pipes age, they develop leaks that allow pressurized air to escape, setting off the system in areas with old piping, charging the system with water, which then leaks out of these holes. There are four remaining building areas with piping that requires replacement including Streets, Parks & Natural Resources, Fleet Maintenance, and Traffic, \$40k for three years (2019, 2021, and 2023).

**Justice Center HVAC Improvements:** The Justice Center is outfitted with an HVAC system that includes 57 individual heat pumps to control the environment in individual areas throughout the facility. The anticipated service life of these units is 10-15 years, with replacement becoming necessary to maintain appropriate internal building climate. Heat pump units are replaced on a schedule that includes five units per year at an average installed cost of \$5,000 per unit (\$25,000 annually).

The CIP also includes \$150,000 for the replacement and upgrade of the HVAC control system in 2019. The system includes operating software and hardware that interfaces between all system components, heat pumps and cooling tower to control the interior environment in all areas. Currently, 20% of the control units original to the building no longer function, reducing system efficiency and response. Additionally, the proprietary nature of the current operating system requires repairs be addressed by multiple contractors, each limited to service only their respective components. Replacing the 25-year-old system with updated non-proprietary controls and software will re-establish efficient and fully functional operations, while reducing maintenance issues and service costs.

**Carpet Replacement:** Carpeting in the Justice Center and City Hall is subject to replacement when the flooring in areas reaches the end of its service life. For carpeting this is a function of location, foot traffic and appearance. The Justice Center has 107 distinct carpeted areas while City Hall has a total of 37 areas. In total, there is 3570 SY of carpeting in the two facilities with a replacement cost estimated at \$178,500. Carpeting is replaced by area, and with carpet tile squares popular within modern public facilities due to quality, appearance, and ease of spot replacement from damage, staining or wear. For budgeting purposes a \$50/SY replacement cost is established to include the cost of flooring replacement and all associated improvements such as base cove replacement, floor repairs, seams, transitions etc. An annual budget of \$25,000 provides funding to address all carpet maintenance on a 10-year program cycle.

**Interior Painting:** The CIP includes funding to repaint all interior walls of both the Justice Center and City Hall over a five-year program. The Justice center will be painted over three years on a floor by floor basis. City Hall will be painted in two years, with the basement and first floor levels in one year, followed by the second floor the following year. The amount of \$25,000/year has been budgeted for each floor with the Justice Center to be painted in 2020-2022 and City Hall in 2023 and 2024.

**Roof Repair:** The useful life of the shingled portions of both City Hall and the Justice Center are approaching the end of their 30-year service life. The CIP includes \$70,000 in 2022 for replacement of the Justice Center roofing and \$35,000 in 2023 for City Hall. Alternative roofing materials, such as standing seam metal roofing is being considered to substantially increase the useful life to 50 years or more, though initial installation costs could be substantially higher.

**Exterior Wall Repairs:** The original concrete masonry unit walls of the Public Works Facility are, in places, highly deteriorated and in need of proper maintenance and repair to prevent further damage. In places, the cracking has allowed individual masonry units to come loose and/or joints deteriorate, especially during winter when water penetrates the cracks, yielding to additional damage to adjacent blocks. The walls need to be properly repaired by tuck pointing and sealing at a cost of \$35,000.



Image #1  
Emergency Backup  
Generator



Image #2  
Typical Ceiling Mount  
Heat Pump Unit

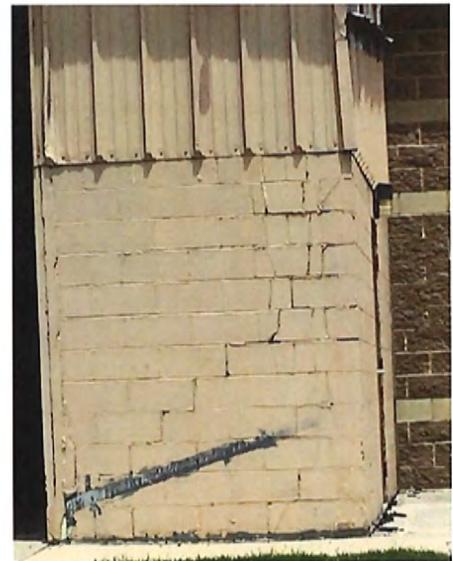
Image #3  
Example of Fire  
Suppression  
Distribution Piping



Image #4  
Public Works Facility  
Masonry Walls  
Requiring Repair



Image #5  
Typical Damaged  
Masonry Wall Section



**CAPITAL IMPROVEMENT PLAN  
SAFEWALK SIDEWALK PROGRAM  
2019 - 2023**

|                                       | 2019           | 2020           | 2021           | 2022           | 2023           |
|---------------------------------------|----------------|----------------|----------------|----------------|----------------|
| <b>BALANCES FORWARD</b>               | 0              | 48,410         | 69,840         | 42,470         | 16,800         |
| <b>REVENUES:</b>                      |                |                |                |                |                |
| Property Tax Assessments              |                |                |                |                |                |
| Prior Years                           |                |                |                |                |                |
| 2014                                  | 3,980          |                |                |                |                |
| 2015                                  | 25,600         | 25,600         | 300            |                |                |
| 2016                                  | 11,660         | 11,660         | 11,660         | 11,660         |                |
| 2017                                  | 9,670          | 9,670          | 9,670          | 9,670          | 9,670          |
| Note Issue                            | 400,000        | 325,000        | 225,000        | 125,000        | 90,000         |
| CIP Allocation Safewalk               | 87,500         | 87,500         | 87,500         | 87,500         | 87,500         |
| <b>Total CIP Allocation (pg. 1)</b>   | <b>87,500</b>  | <b>87,500</b>  | <b>87,500</b>  | <b>87,500</b>  | <b>87,500</b>  |
| <b>TOTAL REVENUE</b>                  | <b>538,410</b> | <b>459,430</b> | <b>334,130</b> | <b>233,830</b> | <b>187,170</b> |
| <b>EXPENDITURES:</b>                  |                |                |                |                |                |
| <b>RESIDENT REPAIR RESPONSIBILITY</b> |                |                |                |                |                |
| Invoice                               | 10,000         | 10,000         | 10,000         | 10,000         | 10,000         |
| Assessment                            | 10,000         | 10,000         | 10,000         | 10,000         | 10,000         |
| <b>CITY REPAIR RESPONSIBILITY</b>     |                |                |                |                |                |
| City Invoice                          | 10,000         | 10,000         | 10,000         | 10,000         | 10,000         |
| DEBT SERVICE                          | 460,000        | 408,000        | 331,500        | 229,500        | 127,500        |
| <b>Total Safewalk Expenditures</b>    | <b>490,000</b> | <b>438,000</b> | <b>361,500</b> | <b>259,500</b> | <b>157,500</b> |
| <b>ENDING FUND BALANCE</b>            | <b>48,410</b>  | <b>69,840</b>  | <b>42,470</b>  | <b>16,800</b>  | <b>46,470</b>  |

**CAPITAL IMPROVEMENT PLAN  
PARK IMPACT FEE IMPROVEMENT FUND  
2019 - 2023**

|  | 2019           | 2020           | 2021             | 2022               | 2023               |
|--|----------------|----------------|------------------|--------------------|--------------------|
| <b>BALANCE FORWARD</b>                     | 600,878        | 343,878        | 618,878          | (106,122)          | (1,111,122)        |
| <b>REVENUES:</b>                           |                |                |                  |                    |                    |
| Impact Fees                                | 225,000        | 225,000        | 225,000          | 225,000            | 225,000            |
| Trail Improvement Grants                   |                | 50,000         |                  | 400,000            | 100,000            |
| <b>TOTAL REVENUES</b>                      | <b>225,000</b> | <b>275,000</b> | <b>225,000</b>   | <b>625,000</b>     | <b>325,000</b>     |
|  |                |                |                  |                    |                    |
| <b>EXPENDITURES:</b>                       |                |                |                  |                    |                    |
| <b>COMMUNITY PARK IMPROVEMENTS</b>         |                |                |                  |                    |                    |
| Ross St. Parkland Expansion (bldg. demo)   | 100,000        |                |                  |                    |                    |
| Ross St. Park Improvement                  | 75,000         |                |                  |                    |                    |
| South Community Park Land Acquisition      |                |                |                  | 500,000            | 500,000            |
|  |                |                |                  |                    |                    |
| <b>COMMUNITY TRAIL IMPROVEMENTS</b>        |                |                |                  |                    |                    |
| SR 37 (Westfield-Trotters)                 |                |                |                  |                    |                    |
| SR 37 (Buehlers-Lexington)                 |                |                |                  |                    |                    |
| SR 37 (Lexington-Houk)                     | 250,000        |                |                  |                    |                    |
| Liberty Road (London-Belle)                |                |                |                  |                    |                    |
| William St. (east of Applegate to Houk)    |                |                |                  |                    |                    |
| London Road                                |                |                |                  | 330,000            | 330,000            |
| Bruce Road Trail Connector                 |                |                | 650,000          |                    |                    |
| Stratford Rd (Olentangy Ave-Meeker Way)    |                |                |                  | 800,000            |                    |
| Stratford/Olentangy Trail (Meeker-Chapman) | 57,000         |                | 300,000          |                    |                    |
| Olentangy River Trail (Pollock Rd)         |                |                |                  |                    | 100,000            |
|  |                |                |                  |                    |                    |
| <b>TOTAL IMPACT FEE EXPENDITURES</b>       | <b>482,000</b> | <b>0</b>       | <b>950,000</b>   | <b>1,630,000</b>   | <b>830,000</b>     |
| <b>IMPACT FEE BALANCE</b>                  | <b>343,878</b> | <b>618,878</b> | <b>(106,122)</b> | <b>(1,111,122)</b> | <b>(1,616,122)</b> |

Debt Balance Outstanding

0                    0                    0                    0                    0

AUGUST 15, 2018

ACQUISITION AND DEVELOPMENT

INFORMATION AT  
A GLANCE

-----

COST

Ross St \$75,000

-----  
FUNDING

Park Impact Fee  
Improvement Fund  
\$75,000

-----

PROJECTED SCHEDULE

Construction 2019

-----

DESIGN CONSULTANT

-----

CITY LEAD

JP Linkous

(740)-203-1402  
[jlinkous@delawareohio.net](mailto:jlinkous@delawareohio.net)

**Project Title: Ross St Park Expansion**

**Year: 2019**

**Estimated Project Cost: \$175,000.00**

**Project Description** -The Parks and Natural Resource Department maintenance staff will relocate to Public Works & Parks facility leaving the additional park area for expanding the existing Ross St Park. The project will remove existing buildings on the site to make way for additional park land.

**Project Justification:** The Ross St. park expansion will provide additional programming space for a park that has outgrown its existing amenities. The Community Coalition and SWCI will be active partners in future programming of the park. In addition, a public survey and public meetings have taken place to help guide the master plan for the park.

**Impact on Operating Expenses:** The impact of future maintenance will add to staff duties due to additional mowing and landscaping. The operating costs will increase as the park attracts more users.

**Financing**

The project is anticipated to cost roughly \$75,000. The City has identified the park impact fee improvement funds to develop the expansion.

**Status**

Bids will be requested spring 2019 with construction in the summer of 2019.

**INFORMATION AT  
A GLANCE**

-----

**COST**

Ross St \$25,000

-----

**FUNDING**

Park Impact Fee  
Improvement Fund  
\$25,000

-----

**PROJECTED SCHEDULE**

Construction 2019

-----

**DESIGN CONSULTANT**

-----

**CITY LEAD**

Chad Green

(740)-203-1402  
cgreen@delawareohio.net

**Project Title: Bruce Road Trail Connector  
(Bruce Road- Pennsylvania Ave)**

**Year: 2021**

**Estimated Project Cost: \$650,000.00**

**Project Description** – The project would propose a connection between Bruce Road and Pennsylvania Ave. The final alignment would need to be determined but would begin at Oakhurst Park to the north and travel south through a utility easement, Pinecrest Subdivision and the Delaware County Fairgrounds. The project is commonly referred to in the community as the Bruce Road-Oakhurst-Pennsylvania Avenue Travel Home Safely or BROPATHS.

**Project Justification:** The project has gained a lot of public support and is ranked as the #10 bike and pedestrian connection in the Master Plan. The completion of this project would connect northern communities with the local schools and downtown and provide a safe active transportation route for residents walking and biking along the U.S. 23 corridor.

**Impact on Operating Expenses:** The impact of future maintenance will add 1 mile of trail to maintain.

**Financing**

The project is anticipated to cost roughly \$650,000. The City has identified the park impact fee improvement funds to develop the expansion.

**Status**

Planning stages.





AUGUST 15, 2018

ACQUISITION AND DEVELOPMENT

INFORMATION AT A GLANCE

-----

COST

South Community Park  
\$1,000,000

-----

FUNDING

Park Impact Fee  
Improvement Fund  
\$1,000,000

-----

PROJECTED SCHEDULE

Acquisition 2020

-----

DESIGN CONSULTANT

-----

CITY LEAD

Ted Miller

(740)-203-1452  
tmiller@delawareohio.net

**Project Title: South Community Park**

**Year: 2020-2022**

**Estimated Project Cost: \$1,000,000.00**

**Project Description** -The City will need to expand recreational services to fill in the southeast section near the new Glen Parkway. Identifying a potential seller and city to secure a community park site and discuss potential recreation partners.

**Project Justification:** The Park Index completed in 2016 has identified gaps in recreation in the southeast section of the city. Residents in the southeast part of the city currently have to drive several miles to reach Mingo Park, the closest community park. The goal would be to locate a community park within 1 mile of all residents. The proposed community park would fulfill the need for athletic fields, sport courts, leisure activities and outdoor recreation. To accommodate the city would ideally identify a site that was 25-30 acres.

**Impact on Operating Expenses:** The impact of a south community park will significantly increase future maintenance costs introducing a need for additional full time and seasonal staff. Operating costs will also increase significantly. Projecting the increases will be possible once the design is complete. In addition, site development costs will need to be allocated and secured.

**Financing**

The project is anticipated to cost roughly \$1,000,000. The City has identified the improvement funds to develop the expansion.

**Status**

Negotiations should be started immediately with final purchase agreement by 2020

**INFORMATION AT  
A GLANCE**

-----

**COST**

Ross St \$25,000

-----  
**FUNDING**

Park Impact Fee  
Improvement Fund  
\$25,000

-----

**PROJECTED SCHEDULE**

Construction 2019

-----

**DESIGN CONSULTANT**

-----

**CITY LEAD**

Chad Green

(740)-203-1402  
cgreen@delawareohio.net

**Project Title: Stratford Road/Olentangy River Trail  
(Meeker Way-Chapman Road)**

**Year: 2021**

**Estimated Project Cost: \$300,000.00**

**Project Description** – The project would involve a segment of the Olentangy River Trail from the south edge of the City into Liberty Township. The trail would begin at Stratford Road and extend across the Olentangy River on the existing encased sanitary line, adding railings to the existing surface. The trail would continue under the U.S. 23 bridge and travel south along existing ODOT right of way between U.S. 23 and the Olentangy River. At Chapman Road the trail would transition to a shared road trail.

**Project Justification:** The regional context of this trail is extremely significant as it would begin to link the city to a primary greenway that is part of the Central Ohio Greenways (COG) network.

**Impact on Operating Expenses:** The impact of future maintenance will be minimal as the proposed segment in the City is not significant.

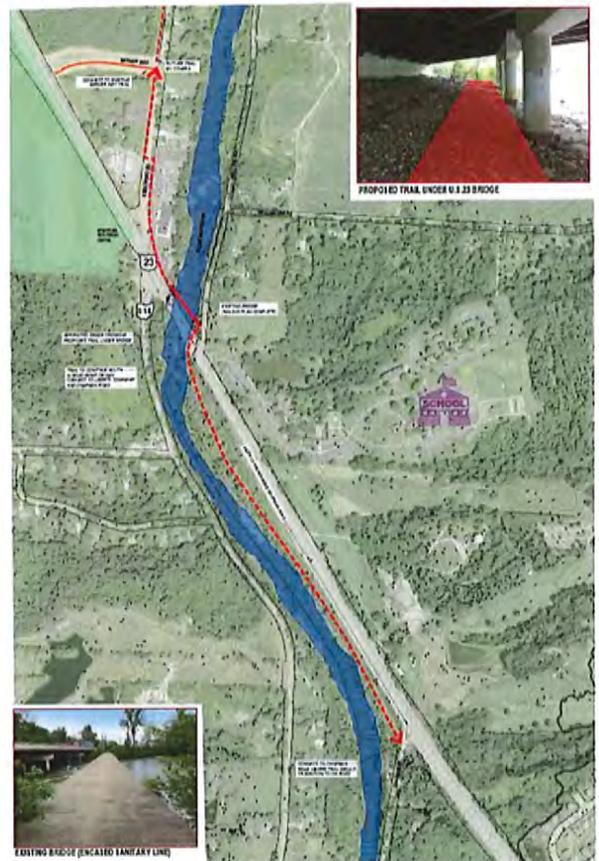
**Financing**

The project is anticipated to cost roughly \$300,000. The City has identified the park impact fee improvement funds to develop the expansion.

**Status**

Grant applications would be completed June 2020. Bids will be requested spring 2021.

**STRATFORD ROAD  
TRAIL CONCEPT**



**INFORMATION AT  
A GLANCE**

-----

**COST**

Ross St \$25,000

-----

**FUNDING**

Park Impact Fee  
Improvement Fund  
\$25,000

-----

**PROJECTED SCHEDULE**

Construction 2019

-----

**DESIGN CONSULTANT**

-----

**CITY LEAD**

Chad Green

(740)-203-1402  
cgreen@delawareohio.net

**Project Title: Stratford Road  
(Olentangy Ave- Meeker Way)**

**Year: 2022**

**Estimated Project Cost: \$800,000.00**

**project Description** – The project would propose a connection between Meeker Way and Olentangy Ave, a heavily traveled pedestrian corridor. A segment of this corridor will be constructed in the newly developed Coughlin Crossing project.

**Project Justification:** Stratford Road has several multi-family developments and produces a high volume of pedestrian/bike traffic. There are currently no sidewalks along the road and connecting this area with existing active transportation routes will provide a much safer corridor. The project was identified in the Bike and Pedestrian Master Plan and ranked #70 but with safety concerns and additional developer driven segments this project has gained importance.

**Impact on Operating Expenses:** The impact of future maintenance will add 1.3 miles of trail to maintain.

**Financing**

The project is anticipated to cost roughly \$800,000. The City has identified the park impact fee improvement funds to develop the expansion.

**Status**

Planning stages.



**CAPITAL IMPROVEMENT PLAN  
POLICE IMPACT FEE FUND  
2019 - 2023**

|   | 2019    | 2020    | 2021    | 2022    | 2023    |
|---|---------|---------|---------|---------|---------|
| <b>BALANCES FORWARD</b>                       | 362,380 | 363,170 | 363,960 | 364,750 | 365,540 |
| <b>REVENUES</b>                               |         |         |         |         |         |
| Police Impact Fees                            | 60,000  | 60,000  | 60,000  | 60,000  | 60,000  |
| <b>TOTAL REVENUE</b>                          | 60,000  | 60,000  | 60,000  | 60,000  | 60,000  |
| <b>IMPACT FEE EXPENDITURES</b>                |         |         |         |         |         |
| <b>DEBT SERVICE</b>                           |         |         |         |         |         |
| Justice Center (\$890,000, 19yrs 2.94%, 2032) | 59,210  | 59,210  | 59,210  | 59,210  | 59,210  |
| <b>TOTAL IMPACT FEE EXPENDITURES</b>          | 59,210  | 59,210  | 59,210  | 59,210  | 59,210  |
| <b>IMPACT FEE BALANCE</b>                     | 363,170 | 363,960 | 364,750 | 365,540 | 366,330 |

|                          |         |         |         |         |         |
|--------------------------|---------|---------|---------|---------|---------|
| Debt Balance Outstanding | 574,928 | 530,891 | 486,854 | 442,816 | 396,333 |
|--------------------------|---------|---------|---------|---------|---------|

**CAPITAL IMPROVEMENT PLAN  
FIRE IMPACT FEE FUND  
2019 - 2023**

|                                       | 2019    | 2020    | 2021    | 2022    | 2023    |
|---------------------------------------|---------|---------|---------|---------|---------|
| <b>BALANCES FORWARD</b>               | 323,982 | 313,982 | 303,982 | 293,982 | 283,982 |
| <b>REVENUES:</b>                      |         |         |         |         |         |
| Fire Impact Fees                      | 90,000  | 90,000  | 90,000  | 90,000  | 90,000  |
| <b>TOTAL REVENUE</b>                  | 90,000  | 90,000  | 90,000  | 90,000  | 90,000  |
| <b>IMPACT FEE EXPENDITURES:</b>       |         |         |         |         |         |
| <b>DEBT SERVICE</b>                   |         |         |         |         |         |
| Station 303/304                       | 100,000 | 100,000 | 100,000 | 100,000 | 100,000 |
| <b>TOTAL IMPACT FEE EXPENDITURES:</b> | 100,000 | 100,000 | 100,000 | 100,000 | 100,000 |
| <b>IMPACT FEE BALANCE</b>             | 313,982 | 303,982 | 293,982 | 283,982 | 273,982 |

**CAPITAL IMPROVEMENT PLAN  
MUNICIPAL SERVICES IMPACT FEE FUND  
2019 - 2023**

|  | 2019           | 2020           | 2021           | 2022           | 2023           |
|--|----------------|----------------|----------------|----------------|----------------|
| <b>BALANCE FORWARD</b>                                 | <b>207,296</b> | <b>32,661</b>  | <b>38,026</b>  | <b>43,391</b>  | <b>48,756</b>  |
| <b>REVENUES:</b>                                       |                |                |                |                |                |
| Impact Fees  | 110,000        | 110,000        | 110,000        | 110,000        | 110,000        |
| Sewer Fund Reimbursement Cherry St. Facility           | 65,000         | 65,000         | 65,000         | 65,000         | 65,000         |
| <b>TOTAL REVENUES</b>                                  | <b>175,000</b> | <b>175,000</b> | <b>175,000</b> | <b>175,000</b> | <b>175,000</b> |
|  |                |                |                |                |                |
| <b>EXPENDITURES:</b>                                   |                |                |                |                |                |
| <b>DEBT SERVICE</b>                                    |                |                |                |                |                |
| Public Works Facility (\$1,060,000 19yrs, 2.94%, 2031) | 72,094         | 72,094         | 72,094         | 72,094         | 72,094         |
| Justice Center (\$900,000, 19yrs 2.94%, 2032)          | 62,541         | 62,541         | 62,541         | 62,541         | 62,541         |
| City Hall/City Hall Annex/Parking Lot 2018             | 35,000         | 35,000         | 35,000         | 35,000         | 35,000         |
| <b>MUNICIPAL FACILITY IMPROVEMENTS</b>                 |                |                |                |                |                |
| Public Works Facility - Land Acquisition (3 acres)     | 180,000        |                |                |                |                |
| <b>TOTAL EXPENDITURES</b>                              | <b>349,635</b> | <b>169,635</b> | <b>169,635</b> | <b>169,635</b> | <b>169,635</b> |
| <b>IMPACT FEE BALANCE</b>                              | <b>32,661</b>  | <b>38,026</b>  | <b>43,391</b>  | <b>48,756</b>  | <b>54,121</b>  |

|   |                  |                  |                  |                  |                  |
|---|------------------|------------------|------------------|------------------|------------------|
| <b>Debt Outstanding - PW Fac/Justice Center</b> | <b>1,295,072</b> | <b>1,170,891</b> | <b>1,093,146</b> | <b>992,184</b>   | <b>888,667</b>   |
| - Gazette Bldg.                                 | <b>1,957,738</b> | <b>1,843,333</b> | <b>1,725,471</b> | <b>1,604,046</b> | <b>1,478,951</b> |

AUGUST 15, 2018

**PUBLIC WORKS & PARKS FACILITY PROPERTY ACQUISITION**

**INFORMATION AT  
A GLANCE**

-----  
COST  
\$ 180,000

-----  
FUNDING

LOCAL \$180,000  
-----

**PROJECTED SCHEDULE**

2019 Purchase  
-----

CITY LEAD  
Public Works

DESIGN CONSULTANT  
TBD

CONTRACTOR  
TBD  
-----

**Purpose**

The proposed acquisition of the 3-acre parcel adjacent to and north of the current Public Works Facility is a protective purchase to provide for the future expansion of the Public Works and Parks and Natural Resources Departments on the same site. This provides for expansion of either department on site without having to purchase property and relocate facilities to an alternative location. With the recently completed expansion of the Refuse operation, and relocation of Parks & Natural Resources to 440 E. William, space for additional parking, laydown areas or building expansion is particularly limited. The additional acreage can accommodate and additional 30,000 SF of building area with parking, and is conformance with originally reviewed facility improvement plans presented to City Council in May 2014.

**Financing**

The purchase could be funded from both general fund revenues, Park Impact Fees and Municipal Impact Fees.

**Status**

Proposed purchase to be in 2019



**440 E William**

Information contained within this map may be used to generally locate, identify and inventory land parcels within Delaware County. Delaware County cannot warrant or guarantee the information contained herein, including, but not limited to, its accuracy or completeness. The map portion shows the approximate and this information cannot be considered or used as a "legal description" of a parcel. Please refer to the deed and other records in the Delaware County Auditor's office at 440 E. William, Delaware, Ohio 43021. Please report any errors in same items to the Delaware County Auditor's office at 440 E. William, Delaware, Ohio. Prepared by: Delaware County Auditor's GIS Office

Delaware County Auditor  
George Wallace

**CAPITAL IMPROVEMENT PLAN  
FIRE/EMS FUND  
2019 - 2023**

|   | 2019             | 2020             | 2021             | 2022             | 2023             |
|---|------------------|------------------|------------------|------------------|------------------|
| <b>BALANCES FORWARD</b>                           | <b>321,373</b>   | <b>450,240</b>   | <b>90,931</b>    | <b>277,742</b>   | <b>805,412</b>   |
| <b>REVENUES:</b>                                  |                  |                  |                  |                  |                  |
| Fire/EMS Income Tax                               | 1,100,000        | 1,380,000        | 1,100,000        | 1,100,000        | 1,200,000        |
| Fire Impact Fee Funds                             | 100,000          | 100,000          | 100,000          | 100,000          | 100,000          |
| <b>TOTAL REVENUE</b>                              | <b>1,200,000</b> | <b>1,480,000</b> | <b>1,200,000</b> | <b>1,200,000</b> | <b>1,300,000</b> |
| <b>EXPENDITURES:</b>                              |                  |                  |                  |                  |                  |
| <b>DEBT SERVICE</b>                               |                  |                  |                  |                  |                  |
| Station 302 (\$573,416, 10 yrs, 1.502%, 2022)     | 63,743           | 60,872           | 60,872           | 60,872           |                  |
| Station 303 (\$2,755,000, 2.94%, 2032)            | 176,518          | 174,569          | 174,569          | 174,569          | 174,569          |
| Station 304 (\$3,500,000, 15 yrs, 2031)           | 371,250          | 280,950          | 285,550          | 284,850          | 284,850          |
| Ladder Truck Lease (1,090,176, 1.83%, 7yrs, 2019) | 41,573           |                  |                  |                  |                  |
| EMS Vehicles (3) - (800,000, 10 yrs. 2024)        | 90,750           | 94,150           | 94,150           | 94,150           | 94,150           |
| <b>APPARATUS/VEHICLES</b>                         |                  |                  |                  |                  |                  |
| Engine/Pumper Truck                               |                  | 823,401          |                  |                  | 899,752          |
| Paramedic Units                                   |                  | 392,699          |                  |                  |                  |
| Staff/Utility Vehicles                            | 12,299           | 12,668           | 13,048           | 57,889           | 174,622          |
| <b>EQUIPMENT</b>                                  |                  |                  |                  |                  |                  |
| Traffic Pre-Emption                               | 315,000          |                  | 385,000          |                  |                  |
| Defibrillators/Cardiac Monitors                   |                  |                  |                  |                  | 355,000          |
| Technology  |                  |                  |                  |                  | 101,483          |
| <b>TOTAL EXPENDITURES:</b>                        | <b>1,071,133</b> | <b>1,839,309</b> | <b>1,013,189</b> | <b>672,330</b>   | <b>2,084,426</b> |
| <b>ENDING BALANCE</b>                             | <b>450,240</b>   | <b>90,931</b>    | <b>277,742</b>   | <b>805,412</b>   | <b>20,986</b>    |

Debt Balance Outstanding

5,587,726    5,185,300    4,783,718    4,653,718    4,523,718

AUGUST 15, 2018

## FIRE DEPARTMENT FIRE TECHNOLOGY REPLACEMENT

### INFORMATION AT A GLANCE

-----

COST  
\$145,307

-----

FUNDING  
LOCAL \$ TBD

2019 - \$37,354

2020 - \$0

2021 - \$0

2022 - \$6,470

2023 - \$101,483

-----

### PROJECTED SCHEDULE

|                  |     |
|------------------|-----|
| Prelim. Design   | TBD |
| Environmental    | TBD |
| Final Design     | TBD |
| Land Acquisition | TBD |
| Permitting       | TBD |
| Construction     | TBD |

-----

CITY LEAD  
Fire Department

DESIGN CONSULTANT  
TBD

CONTRACTOR  
TBD

### Purpose

Provide for the replacement of computers, mobile data terminals, mobile wireless interfaces and copiers.

### Financing

The replacement of the computers, mobile data terminals, mobile wireless are anticipated to cost roughly \$145,307. This project will be funded utilizing the Fire Fund as part of the General Revenue Income Tax. The Fire Department will be looking for alternative funding sources for this equipment.

### Status

In 2019, the existing computers are needing replacement due to the operating system they are operating on will no longer be supported. The Department replaced the mobile data computers located in all the medical apparatus in 2018. In 2019, the Department will also replace the remainder of the Mobile Data Computers.



AUGUST 15, 2018

## FIRE DEPARTMENT TECHNOLOGY REPLACEMENT

### IMAGE #1

#### Mobile Data Computers

Mobile Data Computers provide access to dispatch information, access to information in existing databases, researching hazardous materials and the uploading of medical reports to the hospital. These are replaced every 5-years.



### IMAGE #2

#### Scanner/Copiers/Printers

These devices are connected to the network. They serve as document scanners, printers and copiers. Each Station has one of these and the Administrative office has a larger copier.





AUGUST 15, 2018

**FIRE DEPARTMENT**

**EMERGENCY VEHICLE PREEMPTION**

**INFORMATION AT A  
GLANCE**

-----

COST  
\$700,000

-----  
FUNDING

LOCAL \$700,000  
2019 - \$315,000  
2020 - \$0  
2021 - \$385,000  
2022 - \$0  
2023 - \$0

-----

**PROJECTED SCHEDULE**

Prelim. Design 2018  
Environmental N/A  
Final Design 2018  
Land Acquisition N/A  
Permitting 2019  
Construction 2019-2020

-----

CITY LEAD  
Public Works

DESIGN CONSULTANT  
City In-house Services

CONTRACTOR  
TBD

**Purpose**

Emergency Vehicle Preemption is an important piece of technology deployed at signalized intersections where normal traffic operations impede emergency vehicles and where traffic conditions create a potential for conflicts between emergency and non-emergency vehicles. Emergency Vehicle Preemption can reduce emergency vehicle response times and is especially useful along corridors that emergency vehicles use to travel longer distances. It also can provide both a safety and operational benefit on roadways where emergency vehicles need to enter the intersection from the minor road. This project, planned for 2019, consists of installing Emergency Vehicle Preemption at 20 signalized intersections. Emergency Vehicle Preemption will be installed at the 31 remaining signalized intersections, which are being improved as part of the Citywide Signal Update Phase 1 Project, planned for construction in 2020-21. All City Fire and EMS vehicles have already been equipped with the GPS transmitters that activate the preemption at each signalized intersection.

**Financing**

The project is anticipated to cost roughly \$700,000, which will be covered 100% utilizing the Fire Fund as part of the General Income Tax. City Traffic & Engineering Division in-house staff will design, bid, and oversee the construction and inspection of the project.

**Status**

The project is currently in the preliminary planning stages and scheduled to have the final plans and bidding documentation completed by the end of 2018. Construction is scheduled for 2019-2020.

AUGUST 15, 2018

## FIRE DEPARTMENT EMERGENCY VEHICLE PREEMPTION

### IMAGE #1

Overall visual of how this system works between emergency vehicle and signalized intersection



### IMAGE #2

Confirmation light which gives indication to emergency vehicle that they have been detected by signal pre-emption system



### IMAGE #3

This signal pre-emption devices that receives GPS signal from emergency vehicle



AUGUST 15, 2018

## FIRE DEPARTMENT STAFF VEHICLES

### INFORMATION AT A GLANCE

-----  
COST  
\$ 270,526

-----  
FUNDING

LOCAL        \$270,526  
2019 - \$12,299  
2020 - \$12,668  
2021 - \$13,048  
2022 - \$57,889  
2023 - 174,622

### PROJECTED SCHEDULE

Prelim. Design    2018  
Environmental    N/A  
Final Design       2018  
Land Acquisition   N/A  
Permitting         N/A  
Construction      2018

-----  
CITY LEAD  
Fire Department

DESIGN CONSULTANT  
Not Applicable

CONTRACTOR  
TBD

-----

### Purpose

The Fire Department utilizes staff vehicles for emergency response of command officers, for fire inspectors conducting fire inspections and for various non-emergent transportation. The emergency response vehicles are purchased new and remain in the fleet for 10-years. The fire inspection and station cars are retired police cruisers that are wrapped with reflective and used for an additional 5-years at the Fire Department.

### Financing

The replacement of the staff vehicles are anticipated to cost \$270,526. This project will be funded utilizing the Fire Fund as part of the General Revenue Income Tax. The Fire Department will be looking for alternative funding sources for this equipment.

### Status

The Fire Department has been utilizing the Police cruisers for six years. These have proven to be efficient and cost-effective for their purpose. The Command vehicles have been in the fleet and are continuing to work well for their operations.



AUGUST 15, 2018

## FIRE DEPARTMENT STAFF VEHICLES

### IMAGE #1

#### Fire Inspector Vehicles

Used Police Vehicles are utilized for an additional 5-years for fire inspections and station vehicles.



### IMAGE #2 & #3

Command Vehicles are used for the management of emergency incidents. Incident management needs to be conducted in a controlled environment to allow for communication, planning and documentation, away from the scene elements.



**INFORMATION AT  
A GLANCE**

-----  
COST  
\$ 1,723,153

-----  
FUNDING  
LOCAL \$ 1,723,153

2019 - \$0  
2020 - \$823,401  
2021 - \$0  
2022 - \$0  
2023 - \$899,752

**PROJECTED SCHEDULE**

Prelim. Design 2019  
Environmental N/A  
Final Design 2019  
Land Acquisition N/A  
Permitting N/A  
Construction 2020

-----  
CITY LEAD  
Fire Department

DESIGN CONSULTANT  
Not Applicable

CONTRACTOR  
TBD  
-----

**Purpose**

The Fire Department has established a long-term replacement schedule for the fire apparatus. In 2020, the Department will be replacing the 1989 Emergency One fire engine and in 2023 will be replacing the 1997 Pierce fire engine.

**Financing**

The replacement of the fire apparatus are anticipated to cost roughly \$1,723,153. This project will be funded utilizing the Fire Fund as part of the General Revenue Income Tax. The Fire Department will be looking for alternative funding sources for this equipment.

**Status**

Since the passage of the 2010 Fire Levy, the Fire Department has replaced the majority of its front line fleet. A replacement schedule has been established for a replacement of fire apparatus at 20-years. Fire apparatus include fire engines, ladder truck, quint/engine and the heavy rescue/hazmat unit. The department will continue to evaluate the mileage and use of this apparatus to prolong the longevity and efficient use of these vehicles.



AUGUST 15, 2018

## FIRE DEPARTMENT FIRE APPARATUS

### IMAGE #1 & 2

#### Fire Engine and Quint/Engine

The Primary usage of the fire engine is for the rapid extinguishment of fire. Rapid extinguishment of a fire supports the rescue of trapped patients and increases the safety of firefighters.



### IMAGE #3 & 4

#### Ladder Truck & Heavy Rescue

The Department operates a ladder truck with a primary function of search and rescue, forcible entry and ventilation and salvage operations. The heavy rescue is responsible for the rescue of patients trapped and for hazardous material responses.



AUGUST 15, 2018

## FIRE DEPARTMENT MEDICAL APPARATUS

### INFORMATION AT A GLANCE

-----  
COST  
\$ 392,699

-----  
FUNDING

LOCAL        \$392,699  
2019 - \$0  
2020 - \$392,699  
2021 - \$0  
2022 - \$0  
2023 - \$0

### PROJECTED SCHEDULE

Prelim. Design    2019  
Environmental    N/A  
Final Design       2019  
Land Acquisition   N/A  
Permitting        N/A  
Construction      2020

-----  
CITY LEAD  
Fire Department

DESIGN CONSULTANT  
Not Applicable

CONTRACTOR  
TBD  
-----

### Purpose

With the opening of St 304 and the projected growth of the City, it is anticipated that an additional transport unit may be needed. This will also allow a back-up unit to be in the fleet. The existing 4 units will be operational with the 4 Station configuration.

### Financing

The replacement of the medical apparatus are anticipated to cost roughly \$392,699. This project will be funded utilizing the Fire Fund as part of the General Revenue Income Tax. The Fire Department will be looking for alternative funding sources for this equipment.

### Status

Since the passage of the 2010 Fire Levy, the Fire Department has replaced its entire EMS fleet of ambulances. With the addition of the 4<sup>th</sup> Fire Station and an EMS transport unit operating from the Station, a reserve vehicle will be needed. The Department will also be evaluating the possibility of using an additional Quick Response Vehicle in lieu of this additional transport unit. This concept would dispatch a Quick Response Vehicle on the low acuity/low transport operations in lieu of an ambulance.



AUGUST 15, 2018

## FIRE DEPARTMENT MEDICAL APPARATUS

### IMAGE #1

#### Interior of an Ambulance

The inside of an ambulance is essentially an Emergency Room on wheels. Paramedics are capable of continuing the care and treatment of patients while enroute to a hospital.



### IMAGE #2

#### Quick Response Vehicle

The Department is continuing to research the implementation of programs to decrease the transport of patients unnecessarily to hospitals. One alternative is the use of Community Paramedics and also the use of on-line physicians.



AUGUST 15, 2018

## FIRE DEPARTMENT CARDIAC MONITORS/DEFIBRILLATORS

### INFORMATION AT A GLANCE

-----  
COST  
\$ 355,000

-----  
FUNDING

LOCAL \$355,000  
2019 - \$0  
2020 - \$0  
2021 - \$0  
2022 - \$0  
2023 - \$355,000  
-----

### PROJECTED SCHEDULE

Prelim. Design 2022  
Environmental N/A  
Final Design 2022  
Land Acquisition N/A  
Permitting N/A  
Construction 2023  
-----

CITY LEAD  
Fire Department

DESIGN CONSULTANT  
Not Applicable

CONTRACTOR  
TBD  
-----

### Purpose

The Department's cardiac monitors will be aging and will be reaching their life expectancy. This is one of the primary pieces of medical equipment that is used on all medical calls. This piece of equipment includes the capability of monitoring blood pressure, oxygen saturation, breathing wave forms, cardiac electrical activity including 12 lead capability, CPR feedback, provides cardiac defibrillation and pacing. The life expectancy of this equipment is 5-years for the 12-Lead Monitor/Defibrillator and 10-years for the Automatic Defibrillators.

### Financing

The cardiac monitors and defibrillators are anticipated to cost \$355,000. This project will be funded utilizing the Fire Fund as part of the General Revenue Income Tax. The Fire Department will also be looking for alternative funding sources for this equipment.

### Status

The Fire Department replaced their 12-Lead Cardiac Monitors and Defibrillators in 2018. In 2023 we will be replacing these devices on all medic units and replacing the AED/Blood Pressure machines on all fire apparatus



Because CPR Is a Focus for Cardiac Arrest

**CAPITAL IMPROVEMENT PROGRAM  
WATER FUND CAPACITY PROJECTS  
2019 - 2023**

|  | 2019             | 2020             | 2021             | 2022             | 2023             |
|--|------------------|------------------|------------------|------------------|------------------|
| <b>BALANCES FORWARD</b>                                | <b>3,661,852</b> | <b>3,570,541</b> | <b>3,237,073</b> | <b>2,699,805</b> | <b>2,195,817</b> |
| <b>REVENUES:</b>                                       |                  |                  |                  |                  |                  |
| Water Capacity Fees                                    | 1,200,000        | 1,200,000        | 1,200,000        | 1,200,000        | 1,200,000        |
| Water Debt Meter Fee Allocation                        | 255,000          | 260,100          | 265,302          | 270,608          | 276,020          |
| <b>TOTAL REVENUES</b>                                  | <b>1,455,000</b> | <b>1,460,100</b> | <b>1,465,302</b> | <b>1,470,608</b> | <b>1,476,020</b> |
| <b>EXPENDITURES:</b>                                   |                  |                  |                  |                  |                  |
| <b>DEBT SERVICE</b>                                    |                  |                  |                  |                  |                  |
| Westside Trans Line (\$2,225,051, 25 yrs, 3.67%, 2036) | 136,750          | 136,750          | 136,750          | 136,750          | 136,750          |
| Penry Rd. Waterline (\$1,000,000, 25 yrs, 3.55%, 2037) | 62,976           | 62,976           | 62,976           | 62,976           | 62,976           |
| Kingman Hill Tower (\$3,545,000, 25 yrs, 4.51%, 2031)  | 213,971          | 211,228          | 210,230          | 212,256          | 210,978          |
| Plant Expansion (\$9,600,000, 25yrs., 3.23%, 2039)     | 562,614          | 562,614          | 562,614          | 562,614          | 562,614          |
| <b>TOTAL DEBT SERVICE</b>                              | <b>976,311</b>   | <b>973,568</b>   | <b>972,570</b>   | <b>974,596</b>   | <b>973,318</b>   |
| <b>WATER SYSTEM IMPROVMENTS</b>                        |                  |                  |                  |                  |                  |
| Water Master Plan                                      |                  |                  | 100,000          |                  |                  |
| <b>DISTRIBUTION CAPACITY PROJECTS</b>                  |                  |                  |                  |                  |                  |
| Panhandle to US 42 Water Main                          | 120,000          | 570,000          | 570,000          |                  |                  |
| Braumiller Rd. 16" Water Main                          |                  |                  | 160,000          | 800,000          | 800,000          |
| New Line Oversizing/Extension                          | 450,000          | 250,000          | 200,000          | 200,000          | 200,000          |
| <b>TOTAL WATER CAPACITY PROJECTS</b>                   | <b>570,000</b>   | <b>820,000</b>   | <b>1,030,000</b> | <b>1,000,000</b> | <b>1,000,000</b> |
| <b>ENDING FUND BALANCE</b>                             | <b>3,570,541</b> | <b>3,237,073</b> | <b>2,699,805</b> | <b>2,195,817</b> | <b>1,698,519</b> |



2018

## PANHANDLE TO US 42/BRAUMILLER RD WATER MAIN

### INFORMATION AT A GLANCE

-----  
COST  
\$ 3.02M  
-----

### PROJECTED SCHEDULE

Phase I Design - 2019  
Phase I Construction  
2020-2021  
Phase II Design - 2021  
Phase II Construction  
2022-2023

-----  
CITY LEAD  
Public Utilities

DESIGN CONSULTANT  
TBD

CONTRACTOR  
TBD  
-----

### Purpose

Currently, the areas of the City that are South of Pollock Road only have 1 main source of water feeding from the distribution network. Should a shutdown or break occur between the S.E. Water Tank and the primary distribution network, we have no reliable way to keep pace with long term water demand of the area. These projects will give the City 2 main feed sources to our S.E. water tank, and provide the areas citizens with the proper level of service which should be provided.

### Financing

Phase I of the project will cost \$1.26M, to be broken up between 3 years:

- 2019 - \$120,000 for design services
- 2020 - \$570,000 for construction
- 2021 - \$570,000 for construction

Phase II of the project will cost \$1.76M, to be broken up between 3 years:

- 2021 - \$160,000 for design services
- 2022 - \$800,000 for construction
- 2023 - \$800,000 for construction

### Status

This project is a part of the recommendations from the 2009 water master plan, and is a highly recommended project to bring the S.E. service area up to proper service redundancy levels.

**CAPITAL IMPROVEMENT PROGRAM  
WATER FUND MAINTENANCE PROJECTS  
2019 - 2023**

|   | 2019             | 2020             | 2021             | 2022             | 2023             |
|---|------------------|------------------|------------------|------------------|------------------|
| <b>BALANCES FORWARD</b>                               | <b>1,429,216</b> | <b>724,082</b>   | <b>766,100</b>   | <b>615,714</b>   | <b>253,376</b>   |
| <b>REVENUES:</b>                                      |                  |                  |                  |                  |                  |
| Transfer from Water Fund                              | 800,000          | 800,000          | 800,000          | 800,000          | 800,000          |
| Water Debt Meter Fee Allocation                       | 1,107,631        | 1,129,783        | 1,152,379        | 1,175,427        | 1,198,935        |
| <b>TOTAL REVENUES</b>                                 | <b>1,907,631</b> | <b>1,929,783</b> | <b>1,952,379</b> | <b>1,975,427</b> | <b>1,998,935</b> |
| <b>EXPENDITURES:</b>                                  |                  |                  |                  |                  |                  |
| <b>DEBT SERVICE</b>                                   |                  |                  |                  |                  |                  |
| Treatment Plant (\$22,400,000 - 25 yrs, 3.23%, 2039 ) | 1,312,765        | 1,312,765        | 1,312,765        | 1,312,765        | 1,312,765        |
| <b>WATER PLANT MAINTENANCE</b>                        |                  |                  |                  |                  |                  |
| Plant Maintenance                                     | 100,000          | 100,000          | 75,000           | 75,000           | 75,000           |
| Well Cleaning   | 40,000           |                  |                  |                  | 25,000           |
| Nano and Ultra Filtration Membrane Replacement        |                  |                  |                  | 675,000          |                  |
| South Intake New VFD Pump                             | 85,000           |                  |                  |                  |                  |
| Instrumentation Replacement                           |                  | 25,000           |                  |                  |                  |
| <b>WATER DISTRIBUTION PROJECTS</b>                    |                  |                  |                  |                  |                  |
| West Water Tank Painting                              | 550,000          |                  |                  |                  |                  |
| Water Tank Maintenance                                | 40,000           |                  |                  |                  |                  |
| Large Meter Replacement                               |                  | 25,000           |                  |                  | 25,000           |
| <i>Water Line Improvements:</i>                       |                  |                  |                  |                  |                  |
| Small Main/Service Replacement                        | 50,000           | 50,000           | 50,000           | 50,000           | 50,000           |
| Fire Flow Improvement                                 | 75,000           | 75,000           | 75,000           | 75,000           | 75,000           |
| S. Washington St. Waterline                           |                  |                  |                  |                  | 90,000           |
| Pennsylvania Ave. Waterline                           |                  |                  | 525,000          |                  |                  |
| Lincoln Ave. Waterline                                |                  | 300,000          |                  |                  |                  |
| E. William St Road Project                            | 300,000          |                  |                  |                  |                  |
| S. Franklin St.                                       |                  |                  |                  |                  | 190,000          |
| Equipment Replacement                                 | 60,000           |                  | 65,000           | 150,000          | 30,000           |
| <b>TOTAL WATER REPAIR AND MAINT.</b>                  | <b>2,612,765</b> | <b>1,887,765</b> | <b>2,102,765</b> | <b>2,337,765</b> | <b>1,872,765</b> |
| <b>ENDING FUND BALANCE</b>                            | <b>724,082</b>   | <b>766,100</b>   | <b>615,714</b>   | <b>253,376</b>   | <b>379,546</b>   |



AUGUST 15, 2018

## WATER PLANT MAINTENANCE

### INFORMATION AT A GLANCE

-----  
COST  
\$ 100,000  
-----

### PROJECTED SCHEDULE

Unforeseen Yearly Needs  
-----

CITY LEAD  
Public Utilities

DESIGN CONSULTANT  
TBD

CONTRACTORS  
TBD  
-----

### Purpose

The project will help fund unforeseen equipment or plant structural failures in order to protect the City's investments and to be able to continually provide safe potable water, at the required capacity, to the citizens of Delaware.

### Financing

The project is will be \$100,000.

### Status

This funding helps the treatment facility comply with required Ohio EPA Asset management practices by having the funding available for equipment repair or replacement as well as any structural repair in order to maintain the equipment and facilities to be able to constantly provide a safe potable water supply for the Citizens of Delaware.



AUGUST 15, 2018

## NANO-FILTRATION MEMBRANE REPLACEMENT

### INFORMATION AT A GLANCE

-----  
COST  
\$ 675,000  
-----

### PROJECTED SCHEDULE

Calendar year 2021  
-----

CITY LEAD  
Public Utilities

DESIGN CONSULTANT  
TBD

CONTRACTORS  
TBD  
-----

### Purpose

The NF membrane flows deteriorate over time which steadily increases operating pressure to the point where the NF feed pumps cannot push water thru the membranes. The conservative estimates for life of these NF membranes are 5-7 years. With the plant beginning operation in 2015, the NF membranes will be 6 years old at this point, and should be planned to be replaced. At the end of the NF life the high pressure conditions can begin to increase rapidly so having the funds available to replace these NF membranes will be essential, although the work being done can continue to push until actual membrane pressures dictate necessity.

### Financing

The project is will be roughly \$675,000.

### Status

We currently clean these NF Membranes every 3 months when operating pressures increase to the point of losing design flow. At the end of the life of the NF membranes the cleaning frequency will increase substantially. Having this funding available when necessary will ensure the ability to provide the required volume of water for the daily needs of our customers.



AUGUST 15, 2018

## SOUTH INTAKE VFD PUMP REPLACEMENT

### INFORMATION AT A GLANCE

-----  
COST  
\$ 85,000  
-----

### PROJECTED SCHEDULE

Calendar year 2019  
-----

CITY LEAD  
Public Utilities

CONTRACTORS  
TBD  
-----

### Purpose

When the plant was constructed only (1) of the (2) original raw surface water intake pumps, at the South pump station, was replaced. The existing intake pumps were a constant flow-rate pump, whereas the new intake pumps installed were variable frequency. The way that the new treatment plant process is operated, these raw water intake pumps have been found to need to be variable frequency, necessitating replacement of the last remaining original intake pump.

### Financing

The project is will be \$85,000.

### Status

We currently run (1) 2.5MGD VFD pump from each of the (2) raw surface water intake pump stations. This means the (1) VFD pump at the south intake runs all of the time and if it fails we may not be able to pull in enough raw surface water necessary to produce enough water to supply the utility rate payers from the City of Delaware. This project is necessary to have a backup pump for this raw water pump station.



AUGUST 15, 2018

## 2028 EAST 1MG WATER TANK PAINTING

### INFORMATION AT A GLANCE

-----  
COST  
\$ 550,000  
-----

### PROJECTED SCHEDULE

Spring/Summer 2028  
-----

CITY LEAD  
Public Utilities

DESIGN CONSULTANT  
TBD

CONTRACTORS  
TBD  
-----

### Purpose

The project will maintain the structural integrity of the water tank. The water tank paint normally lasts 15- 20 years. When needed the exterior and interior surfaces need sandblasted and painted. Normally the City will use an engineering firm to help with the bidding of the job and to look over the entire tank resurfacing project. This also helps the utility department provide the highest quality of finished water to the rate payers of the City of Delaware.

### Financing

The project is anticipated to cost roughly \$550,000

### Status

In 2006 this water tank was sandblasted and painted. In 2028 the East 1MG water tank surfaces will be 22 years old and will be in need of resurfacing to protect the City's investment.

AUGUST 15, 2018

## PENNSYLVANIA AVENUE WATERLINE REPLACEMENT

### INFORMATION AT A GLANCE

-----  
COST  
\$ 475,000

-----  
FUNDING

Utility Fund

### PROJECTED SCHEDULE

Replacement in 2019

-----  
CITY LEAD  
Public Utilities

### Purpose

The project will replace the 6" water main along Pennsylvania avenue. Waterlines are considered to be in "failed" condition when they have experienced 3 or more breaks. At such time they are planned and scheduled for replacement, as is the case for this waterline.

### Financing

The project is anticipated to cost roughly \$475,000. Water line rehabilitation is an anticipated part of an infrastructure's life-cycle, and is an included factor when calculating user rate schedules.

### Status

The project is currently planned to take place in calendar year 2019, to be self-performed by the Public Utilities' Water Distribution department.



**INFORMATION AT  
A GLANCE**

-----  
COST  
\$ 425,000

-----  
FUNDING

Water Maintenance  
Fund

**PROJECTED SCHEDULE**

Summer of 2020

-----  
CITY LEAD  
Public Utilities

**Purpose**

The project will replace the 6" water main along Pennsylvania avenue. Waterlines are considered to be in "failed" condition when they have experienced 3 or more breaks. At such time they are planned and scheduled for replacement, as is the case for this waterline.

**Financing**

The project is anticipated to cost roughly \$425,000. Water line rehabilitation is an anticipated part of an infrastructure's life-cycle, and is an included factor when calculating user rate schedules.

**Status**

The project is currently planned to take place in calendar year 2020, to be self-performed by the Public Utilities' Water Distribution department.



**INFORMATION AT  
A GLANCE**

-----  
COST  
\$ 40,000  
-----

**PROJECTED SCHEDULE**

Spring/Summer 2019  
-----

CITY LEAD  
Public Utilities

DESIGN CONSULTANT  
Burgess & Niple

CONTRACTORS  
TBD  
-----

**Purpose**

The project will maintain the structural integrity of these water tanks. In 2016 both of these water tanks were drained and cleaned as part of the utility department's preventative maintenance program to maintain the elevated water storage tanks. Every 5 years the water tanks are drained, cleaned and inspected by a qualified engineering consultant to make certain that the structural integrity is maintained. Using this outside engineering firm also provides the City an unbiased evaluation of any deficiencies that these water tanks may have so these deficiencies can be corrected in order to maintain and protect the City's investment and to ensure the highest quality of water delivered to our customers.

**Financing**

The project is anticipated to cost roughly \$39,750.

**Status**

In 2016 Burgess & Niple noted the deficiencies below.

East 1MG Water Tank:

- Tanks needs washed to remove mildew which will help maintain the exterior paint surfaces and extend the paint surface protection from erosion. This will require the use of a large man lift in order to complete this task.
- Concrete base and overhead door base need to be grouted to restore and protect these concrete areas from deterioration.
- Painting and priming also need completed around the entire perimeter base of the tank and overhead door to protect these surfaces from deterioration.
- The concrete approach and asphalt driveway are in disrepair and need completely resurfaced.
- Insulation on the riser pipe needs repaired, this will require a man lift.

SE Highland 2MG Water Tank;

- Concrete base needs to be grouted to restore and protect this concrete area from deterioration.
- Painting and priming also need completed around the entire perimeter base of the tank and overhead door to protect these surfaces from deterioration.
- Ceiling tiles need to be replaced, this will require man lift to repair.

2018

## PENRY WELL CLEANING

### INFORMATION AT A GLANCE

-----  
COST  
\$ 40,000  
-----

### PROJECTED SCHEDULE

Calendar years  
2019  
2024  
-----

CITY LEAD  
Public Utilities

CONTRACTOR  
TBD  
-----

### Purpose

The project will help maintain proper flows to each of the (3) raw groundwater wells at the Penry well field. Over time the well flows gradually start deteriorating. This is mostly due to iron and other minerals getting hard and plugging the caverns and voids in the lime stone which block groundwater flow to the well pumps. If this iron and other minerals are not cleaned every five years or so the well flow will not ever be restored to original well flow and the necessary volume of groundwater.

### Financing

The project is anticipated to cost roughly \$40,000.

### Status

This is a required preventative maintenance item to keep in a 5-year cycle, ensuring that the wells maintain their original flows so that we can produce enough finished water for our customers.

2018

RIVERVIEW WELL CLEANING

INFORMATION AT  
A GLANCE

-----  
COST  
\$ 28,000  
-----

PROJECTED SCHEDULE

Calendar year 2023  
-----

CITY LEAD  
Public Utilities

CONTRACTORS  
TBD  
-----

**Purpose**

The project will help maintain proper flows to each of the (2) raw groundwater wells at the Riverview well field. Over time the well flows gradually start deteriorating. This is mostly due to iron and other minerals getting hard and plugging the caverns and voids in the lime stone which block groundwater flow to the well pumps. If this iron and other minerals are not cleaned every five years, buildup can become permanent, and the well flow will never be able to be restored.

**Financing**

The project is anticipated to cost roughly \$28,000.

**Status**

This is good a preventative maintenance plan to ensure that the wells maintain their original flows, so we can produce enough finished water for our customers.



AUGUST 15, 2018

## 2020 PLANT SCADA INSTRUMENTATION REPLACEMENT

### INFORMATION AT A GLANCE

-----  
COST  
\$ 25,000  
-----

### PROJECTED SCHEDULE

Calendar year 2020  
-----

CITY LEAD  
Public Utilities

DESIGN CONSULTANT  
TBD

CONTRACTORS  
TBD  
-----

### Purpose

Replacement of the (2) plant SCADA computers may be necessary for the optimum operation of the plant process. This also includes the; new software, new server, (2) computers, (8) monitors, and any integration assistance.

### Financing

The project is will be roughly \$25,000.

### Status

In 2020 these (2) plant SCADA computers will be 5 years old. IT has suggested that we have this money allocated to be proactive instead of reactive so we do not have any failures. The SCADA is necessary for the operation of the complex plant processes.

**CAPITAL IMPROVEMENT PROGRAM  
SEWER FUND CAPACITY PROJECTS  
2019 - 2023**

|   | 2019             | 2020             | 2021             | 2022             | 2023             |
|---|------------------|------------------|------------------|------------------|------------------|
| <b>BALANCES FORWARD</b>                               | 746,573          | 342,014          | (11,855)         | (79,806)         | (115,909)        |
| <b>REVENUES:</b>                                      |                  |                  |                  |                  |                  |
| Sewer Capacity Fees                                   | 1,150,000        | 1,150,000        | 1,150,000        | 1,150,000        | 1,150,000        |
| SE Highland Sewer ERU Fees                            | 200,000          | 200,000          | 200,000          | 200,000          | 200,000          |
| <b>Sewer Fees Transfer - 2007,2008,2009</b>           | 1,663,640        | 1,696,913        | 1,730,851        | 1,765,468        | 1,800,778        |
| <b>TOTAL REVENUES</b>                                 | <b>3,013,640</b> | <b>3,046,913</b> | <b>3,080,851</b> | <b>3,115,468</b> | <b>3,150,778</b> |
| <b>EXPENDITURES:</b>                                  |                  |                  |                  |                  |                  |
| <b>DEBT SERVICE</b>                                   |                  |                  |                  |                  |                  |
| Land Armstrong Rd. (\$2,915,000 10 yrs. 1.49%, 2022)  | 328,500          | 302,400          | 301,700          | 300,900          |                  |
| 23 North Sewer (\$1,000,000, 25 yrs, 4.51%), 2031     | 60,166           | 59,395           | 59,115           | 59,684           | 59,325           |
| SE Highland Sewer (\$15,000,000, 25 yrs, 4.49%, 2037) | 995,772          | 997,609          | 996,609          | 999,609          | 999,609          |
| SE Highland Sewer (\$2,750,000, 20 yrs, 3.59%, 2026)  | 188,418          | 189,305          | 189,305          | 189,305          | 189,305          |
| Plant Expansion (\$20,882,000, 20 yrs, 3.59%, 2026)   | 1,430,343        | 1,437,073        | 1,437,073        | 1,437,073        | 1,437,073        |
| <b>TOTAL DEBT SERVICE</b>                             | <b>3,003,199</b> | <b>2,985,782</b> | <b>2,983,802</b> | <b>2,986,571</b> | <b>2,685,312</b> |
| <b>SEWER SYSTEM IMPROVEMENTS</b>                      |                  |                  |                  |                  |                  |
| <b>COLLECTION CAPACITY PROJECTS</b>                   |                  |                  |                  |                  |                  |
| Sewer Oversizing/Extension                            | 100,000          | 100,000          | 100,000          | 100,000          | 100,000          |
| Riverby Sewer Extension                               | 250,000          |                  |                  |                  |                  |
| Spring Street Sewer Upsizing                          |                  | 250,000          |                  |                  |                  |
| Reimbursement for Cherry St. Maint. Facility          | 65,000           | 65,000           | 65,000           | 65,000           | 65,000           |
| <b>TOTAL SEWER CAPACITY PROJECTS</b>                  | <b>415,000</b>   | <b>415,000</b>   | <b>165,000</b>   | <b>165,000</b>   | <b>165,000</b>   |
| <b>ENDING FUND BALANCE</b>                            | <b>342,014</b>   | <b>(11,855)</b>  | <b>(79,806)</b>  | <b>(115,909)</b> | <b>184,557</b>   |

**CAPITAL IMPROVEMENT PROGRAM  
SEWER FUND MAINTENANCE PROJECTS  
2019 - 2023**

|  | 2019             | 2020             | 2021             | 2022             | 2023             |
|--|------------------|------------------|------------------|------------------|------------------|
| <b>BALANCES FORWARD</b>                                | <b>1,473,172</b> | <b>1,713,227</b> | <b>1,696,517</b> | <b>1,849,342</b> | <b>2,582,292</b> |
| <b>REVENUES:</b>                                       |                  |                  |                  |                  |                  |
| Transfer from Sewer Fund                               | 1,447,750        | 1,476,705        | 1,506,239        | 1,536,364        | 1,567,091        |
| <b>TOTAL REVENUES</b>                                  | <b>1,447,750</b> | <b>1,476,705</b> | <b>1,506,239</b> | <b>1,536,364</b> | <b>1,567,091</b> |
| <b>EXPENDITURES:</b>                                   |                  |                  |                  |                  |                  |
| <b>DEBT SERVICE</b>                                    |                  |                  |                  |                  |                  |
| Plant Rehabilitation (\$2,230,000 20 yrs. 3.59%, 2026) | 152,695          | 153,414          | 153,414          | 153,414          | 153,414          |
| <b>TOTAL DEBT SERVICE</b>                              | <b>152,695</b>   | <b>153,414</b>   | <b>153,414</b>   | <b>153,414</b>   | <b>153,414</b>   |
| <b>WASTEWATER TREATMENT PROJECTS</b>                   |                  |                  |                  |                  |                  |
| Aeration Tank Diffuser Replacement                     |                  | 100,000          | 100,000          |                  |                  |
| Belt Filter Press                                      |                  |                  | 500,000          |                  |                  |
| Plant Maintenance                                      | 125,000          | 125,000          | 125,000          | 125,000          | 125,000          |
| Influent Pump Replacement                              |                  | 150,000          |                  | 150,000          |                  |
| Settling Tank Upgrades                                 |                  | 250,000          |                  |                  |                  |
| Concrete EQ Basin Repairs                              | 300,000          |                  |                  |                  |                  |
| Site Concrete Repairs                                  |                  | 50,000           |                  | 50,000           |                  |
| Influent VFD Upgrade                                   | 50,000           | 50,000           | 50,000           |                  |                  |
| PLC Upgrades   | 50,000           |                  |                  |                  | 100,000          |
| <b>WASTEWATER COLLECTION PROJECTS</b>                  |                  |                  |                  |                  |                  |
| Large Meter Replacement                                |                  | 25,000           |                  | 25,000           |                  |
| Inflow/Infiltration Remediation                        | 175,000          | 175,000          | 175,000          | 175,000          | 175,000          |
| Sanitary Sewer Replacement                             | 75,000           | 75,000           | 100,000          | 100,000          | 100,000          |
| Wesleyan Woods Sewer Rehab                             |                  |                  | 150,000          |                  |                  |
| Hayes Colony Sewer Rehab                               | 200,000          |                  |                  |                  |                  |
| Pump Station Repair/Upgrade                            |                  | 25,000           |                  | 25,000           |                  |
| West William St CIPP Lining                            |                  | 150,000          |                  |                  |                  |
| Shelbourne forest CIPP Lining                          |                  |                  |                  |                  | 280,000          |
| Stratford Pedestrian Bridge/Sewer Repair               |                  | 35,000           |                  |                  |                  |
| Equipment Replacement                                  | 80,000           | 130,000          |                  |                  | 45,000           |
| <b>TOTAL SEWER REPAIR/MAINTENANCE</b>                  | <b>1,207,695</b> | <b>1,493,414</b> | <b>1,353,414</b> | <b>803,414</b>   | <b>978,414</b>   |
| <b>ENDING FUND BALANCE</b>                             | <b>1,713,227</b> | <b>1,696,517</b> | <b>1,849,342</b> | <b>2,582,292</b> | <b>3,170,969</b> |



2018

## WASTEWATER PLANT BELT FILTER PRESS

### INFORMATION AT A GLANCE

-----  
COST  
\$500,000  
-----

### PROJECTED SCHEDULE

Calendar Year 2021  
-----

CITY LEAD  
Public Utilities

CONTRACTOR  
TBD  
-----

### Purpose

The project will replace the belt filter press which has exceeded its life expectancy. Replacement parts are becoming obsolete, and becoming very difficult to find. The Plant's belt filter press has been refurbished at least once in the past to prolong its lifespan, but that is no longer an option as current generation parts are no longer compatible with the existing unit.

### Financing

Cost: \$500,000.

### Status

The belt filter press is currently being maintained by finding reconditioned/used parts as needed. Replacing the existing belt filter press will allow for manufacturer support of equipment when repairs are needed.



2018

WASTEWATER PLANT SITE CONCRETE REPAIRS

INFORMATION AT  
A GLANCE

-----  
COST  
\$50,000  
-----

PROJECTED SCHEDULE

Calendar Years  
2020  
2022  
-----

CITY LEAD  
Public Utilities

CONTRACTOR  
TBD  
-----

**Purpose**

The project will repair concrete tanks and structure around the facility. With portions of the plant going on 50 years old, areas of concrete are starting to crumble, and are becoming unsafe for the employees to walk on or around.

**Financing**

Cost: \$50,000.

**Status**

Plant staff currently repair and maintain concrete surfaces in many ways, including grouting, patching and painting. These repairs are meant to address areas in which these methods are no longer enough to maintain what is present.



2018

## WASTEWATER PLANT AERATION TANK DIFFUSERS

### INFORMATION AT A GLANCE

-----  
COST  
\$100,000  
-----

### PROJECTED SCHEDULE

Calendar Years  
2020  
2021  
-----

CITY LEAD  
Public Utilities

CONTRACTOR  
TBD  
-----

### Purpose

The project will replace out of date diffusers in our aeration system. These diffusers have exceeded their life expectancy, and should be replaced to increase the efficiency of the new High Speed Turbo Blowers that were installed in 2017. Which in turn may lower our utility bills.

### Financing

Cost: \$100,000.

### Status

As diffusers age, they become less efficient, allowing less air to be released into and absorbed within the treatment system. This requires the plant blowers to run at a higher speed to achieve needed dissolved oxygen levels. Current diffusers are reaching this point, and should be replaced as such.



2018

## WASTEWATER PLANT EQUALIZATION BASIN

### INFORMATION AT A GLANCE

-----  
COST  
\$300,000  
-----

### PROJECTED SCHEDULE

Calendar Year 2019  
-----

CITY LEAD  
Public Utilities

CONTRACTOR  
TBD  
-----

### Purpose

The project will repair the concrete structure called the equalization basin. The basin was modified during the 2007 plant expansion, the concrete has since settled and needs major rehab work. The concrete ballast supporting the airlines in the tank are in disrepair.

### Financing

Cost: \$300,000.

### Status

The project is currently in the process of getting updated quotes to repair the equalization basin.



2018

## WASTEWATER PLANT INFLUENT PUMP REPLACEMENT

### INFORMATION AT A GLANCE

-----  
COST  
\$150,000  
-----

### PROJECTED SCHEDULE

Calendar years  
2020  
2022  
2024  
-----

CITY LEAD  
Public Utilities

CONTRACTOR  
TBD  
-----

### Purpose

The project will replace an influent pump at each of the budgeted times. The pumps were installed during the 2007 plant expansion, and have begun to require semi-regular major repairs. Each pump has been repaired at least once during its life span, some multiple times. A typical repair ranges from \$25,000 to \$35,000, and are becoming more expensive and difficult to get rebuilt as they continue to age.

### Financing

Cost: \$150,000.

### Status

Influent pumps are currently being disconnected and transported to the Cincinnati area for repair as needed. As these repairs have begun happening in more frequent intervals, a phased replacement of pumps has become the best solution to ensure stable plant operation.



2018

## WASTEWATER PLANT MAINTENANCE

### INFORMATION AT A GLANCE

-----  
COST  
\$125,000  
-----

### PROJECTED SCHEDULE

Unforeseen Yearly Needs  
-----

CITY LEAD  
Public Utilities

CONTRACTOR  
TBD  
-----

### Purpose

The project will help fund unforeseen equipment or plant structural failures in order to protect the City's investments and to be able to continually provide safe effluent for discharge into the Olentangy River.

### Financing

The project is will be \$125,000.

### Status

This funding helps the treatment facility by having the funding available for equipment repair or replacement as well as any structural repair in order to maintain the equipment and facilities to be able to constantly provide a safe effluent for discharge into the Olentangy River.



2018

## PLC UPGRADES

### INFORMATION AT A GLANCE

-----  
COST  
\$50,000  
-----

### PROJECTED SCHEDULE

Calendar Year 2019  
-----

CITY LEAD  
Public Utilities

CONTRACTOR  
TBD  
-----

### Purpose

This project will begin the process of upgrading the PLC's at the wastewater plant. The PLC's were installed during the 2007 plant expansion and are nearing the end of their life expectancy, according to the manufacturer. Plant PLC and communications with the SCADA system is in need of major retrofitting in the near future, as we are currently using software that will soon be obsolete and no longer supported.

### Financing

Cost: \$50,000.

### Status

The project is currently in the process of getting updated quotes from equipment manufacturers.



2018

## WASTEWATER 2023 PLC UPGRADES

### INFORMATION AT A GLANCE

-----  
COST  
\$100,000  
-----

### PROJECTED SCHEDULE

Calendar Year 2023  
-----

CITY LEAD  
Public Utilities

CONTRACTOR  
TBD  
-----

### Purpose

This stage of PLC upgrades is intended to continue the work started in 2019, bringing plant processes up to current standards, and allowing for easier upkeep and maintenance when needed.

### Financing

Cost: \$100,000.

### Status

The project is currently in the process of getting updated quotes for upgrading the PLC's.



2018

## WASTEWATER SETTLING TANK UPGRADES

### INFORMATION AT A GLANCE

-----  
COST  
\$250,000  
-----

### PROJECTED SCHEDULE

Calendar Year 2020  
-----

CITY LEAD  
Public Utilities

CONTRACTOR  
TBD  
-----

### Purpose

The project is aimed to repair or replace the rotating mechanism within the settling tanks. Some of these tanks are going on 50 years old, the structure is starting to crumble and is becoming unsafe for the employees to walk on or around. Concurrently, the treatment technology of these tanks is out of date and inefficient.

### Financing

Cost: \$250,000.

### Status

The project is currently in the process of getting updated quotes for repairs and/or replacement.



2018

## WASTEWATER INFLUENT VFD REPLACEMENT

### INFORMATION AT A GLANCE

-----  
COST  
\$50,000  
-----

### PROJECTED SCHEDULE

Phased Replacements in

2019

2020

2021  
-----

CITY LEAD  
Public Utilities

CONTRACTOR  
TBD  
-----

### Purpose

The project will replace the variable frequency drives for the influent pumps at the wastewater plant. The VFD's were installed during the 2007 plant expansion and are nearing the end of their life expectancy, according to the manufacturer. The current VFD's are obsolete, and have become hard to find repair parts for.

### Financing

Cost: \$50,000.

### Status

Through conversations with the existing VFD's manufacturer, the City has been notified that this equipment is no longer supported, and new replacement parts are no longer in production. Currently as repairs are needed, the plant maintenance staff has been able to scavenge parts from other pieces of equipment on-site. This method will soon no longer be an option, and new VFD's are required.

**CAPITAL IMPROVEMENT PLAN  
STORM WATER FUND  
2019 - 2023**

|  | 2019           | 2020           | 2021           | 2022           | 2023           |
|--|----------------|----------------|----------------|----------------|----------------|
| <b>BALANCES FORWARD</b>                  | 822,039        | 394,653        | 269,521        | 386,785        | 196,595        |
| <b>REVENUES:</b>                         |                |                |                |                |                |
| Storm Water Fees                         | 362,615        | 369,867        | 377,264        | 384,810        | 392,506        |
| <b>TOTAL REVENUE</b>                     | <b>362,615</b> | <b>369,867</b> | <b>377,264</b> | <b>384,810</b> | <b>392,506</b> |
| <b>EXPENDITURES:</b>                     |                |                |                |                |                |
| Storm Water Repair                       | 125,000        | 125,000        | 125,000        | 125,000        | 125,000        |
| Storm Water I&I Remediation              |                | 100,000        |                | 100,000        |                |
| Bernard Avenue (Sandusky to Liberty St.) | 400,000        |                |                |                |                |
| Montrose/Columbus/Toledo                 |                | 200,000        |                |                |                |
| Vernon Ave.                              |                |                | 135,000        |                |                |
| Birch Terrace                            | 225,000        |                |                |                |                |
| Chamberlain/Channing St.                 |                |                |                | 350,000        |                |
| Pittsburgh Drive                         |                |                |                |                | 200,000        |
| 100 Pincrest Slope Remediation           | 20,000         |                |                |                |                |
| Equipment Replacement                    | 20,000         | 70,000         |                |                | 20,000         |
| <b>TOTAL EXPENDITURES</b>                | <b>790,000</b> | <b>495,000</b> | <b>260,000</b> | <b>575,000</b> | <b>345,000</b> |
| <b>ENDING FUND BALANCE</b>               | <b>394,653</b> | <b>269,521</b> | <b>386,785</b> | <b>196,595</b> | <b>244,101</b> |

**CAPITAL IMPROVEMENT PLAN  
UTILITY EQUIPMENT REPLACEMENT FUND  
2019 - 2023**

|   | 2019           | 2020           | 2021          | 2022           | 2023          |
|---|----------------|----------------|---------------|----------------|---------------|
| <b>REVENUES:</b>                        |                |                |               |                |               |
| Water Fund Allocation                   | 60,000         |                | 65,000        | 150,000        | 30,000        |
| Sewer Fund Allocation                   | 80,000         | 130,000        |               |                | 45,000        |
| Storm Water Fund Allocation             | 20,000         | 70,000         |               |                | 20,000        |
| <b>TOTAL REVENUE</b>                    | <b>160,000</b> | <b>200,000</b> | <b>65,000</b> | <b>150,000</b> | <b>95,000</b> |
| <b>EXPENDITURES:</b>                    |                |                |               |                |               |
| One Ton Dump Truck                      |                |                | 65,000        |                | 65,000        |
| Two Ton Dump Truck                      |                | 130,000        |               |                |               |
| Backhoe                                 | 100,000        |                |               |                |               |
| One-ton Service Truck                   |                | 70,000         |               |                |               |
| Utility Truck - Water                   |                |                |               | 150,000        |               |
| Pickup Truck - Water                    | 60,000         |                |               |                | 30,000        |
|   |                |                |               |                |               |
| <b>TOTAL PUBLIC UTILITIES EQUIPMENT</b> | <b>160,000</b> | <b>200,000</b> | <b>65,000</b> | <b>150,000</b> | <b>95,000</b> |

**CAPITAL IMPROVEMENT PLAN  
REFUSE FUND  
2019 - 2023**

|                                       | 2019           | 2020           | 2021           | 2022           | 2023           |
|---------------------------------------|----------------|----------------|----------------|----------------|----------------|
| <b>BALANCES FORWARD</b>               | 165,437        | 292,677        | 485,917        | 595,642        | 506,367        |
| <b>REVENUES:</b>                      |                |                |                |                |                |
| Refuse Fees                           | 624,240        | 624,240        | 636,725        | 636,725        | 649,459        |
| Bond Revenue                          |                |                |                |                |                |
| <b>TOTAL REVENUE</b>                  | <b>624,240</b> | <b>624,240</b> | <b>636,725</b> | <b>636,725</b> | <b>649,459</b> |
| <b>EXPENDITURES:</b>                  |                |                |                |                |                |
| <b>Equipment</b>                      |                |                |                |                |                |
| Rear Load 20-Yard Packer - Commercial |                | 179,000        |                | 184,000        |                |
| Side Load Truck                       | 245,000        | 252,000        | 260,000        | 267,000        | 275,000        |
| Recycling Vehicle - Recycling         | 252,000        |                | 267,000        | 275,000        | 283,000        |
| <b>TOTAL EXPENDITURES</b>             | <b>497,000</b> | <b>431,000</b> | <b>527,000</b> | <b>726,000</b> | <b>558,000</b> |
| <b>ENDING FUND BALANCE</b>            | <b>292,677</b> | <b>485,917</b> | <b>595,642</b> | <b>506,367</b> | <b>597,826</b> |

**CAPITAL IMPROVEMENT PLAN  
DEVELOPER TRUST FUND  
2019 - 2023**

|                             | 2019           | 2020           | 2021           | 2022           | 2023           |
|-----------------------------|----------------|----------------|----------------|----------------|----------------|
| <b>BALANCES FORWARD</b>     | 536,221        | 582,721        | 499,221        | 333,721        | 341,221        |
| <b>REVENUES:</b>            |                |                |                |                |                |
| Assessments                 | 7,500          | 7,500          | 7,500          | 7,500          | 7,500          |
| Grant Revenue               |                | 100,000        |                |                |                |
| City Contribution           | 84,000         |                | 27,000         |                |                |
| <b>TOTAL REVENUE</b>        | <b>91,500</b>  | <b>107,500</b> | <b>34,500</b>  | <b>7,500</b>   | <b>7,500</b>   |
| <b>EXPENDITURES:</b>        |                |                |                |                |                |
| <b>Equipment</b>            |                |                |                |                |                |
| Stratford Pedestrian Bridge |                | 165,000        |                |                |                |
| Hills Miller Sidewalk       | 45,000         |                |                |                |                |
| Curtis St Turn Lane         |                | 26,000         | 200,000        |                |                |
|                             |                |                |                |                |                |
| <b>TOTAL EXPENDITURES</b>   | <b>45,000</b>  | <b>191,000</b> | <b>200,000</b> | <b>0</b>       | <b>0</b>       |
| <b>ENDING FUND BALANCE</b>  | <b>582,721</b> | <b>499,221</b> | <b>333,721</b> | <b>341,221</b> | <b>348,721</b> |



AUGUST 15, 2018

## STRATFORD PEDESTRIAN BRIDGE IMPROVEMENTS

### INFORMATION AT A GLANCE

-----  
 COST  
 \$200,000

-----  
 FUNDING

Sanitary \$35,000  
 Developer \$108,310  
 LOCAL \$57,000

-----  
 PROJECTED SCHEDULE

Construction 2019

-----  
 CITY LEAD  
 Public Works

DESIGN CONSULTANT  
 Pomeroy & Associates

CONTRACTOR  
 TBD

### Purpose

The City's South Central Sanitary Trunk Sewer crosses the Olentangy River suspended beneath a bridge structure located near the intersection of Stratford Road and US 23. The structure provides protection to the sewer and will serve to carry pedestrian traffic over the river. This structure is comprised of two (2) concrete box beams, with the sewer suspended between the beams, below a concrete slab poured over the top. The bridge was recently inspected and found to be in fair condition, though there is notable concrete cracking at the south bridge abutment that must be repaired. The purpose of this project is to improve the bridge to:

- Make necessary repairs to the south abutment
- Installing railing along the entire span of the bridge
- Connect both ends of the bridge to adjacent roadway.

Not included in the scope of this project is a 1500 LF multi-use path extension that would connect the north end of the bridge to the proposed Stratford Road and Meeker Way path system.

### Finance

Various funding sources could be tapped to cover the construction costs for this project, currently estimated to be \$175,000-\$200,000 (depending on contingency items performed). The proposed strategy to fund this project is to combine sanitary sewer maintenance funds (structural repairs) with past developer contributions (pedestrian pathway component). Additional local dollars will be required to fill the gap.

The City is owed a developer contribution from the car dealership in the amount of \$117,364 if the second phase of its 2014 Development Plan is executed. If received, these monies could help fund the 1500 LF offsite path extension to Meeker Way.

### Status

Design plans for the structural repairs, railing improvements, and the short path to Pollock Road are complete. The 2018 Budget included an appropriation of sanitary maintenance funds that will need to be moved to 2019, increased to account for contingency items, and combined with developer contributions - in order to execute this project.

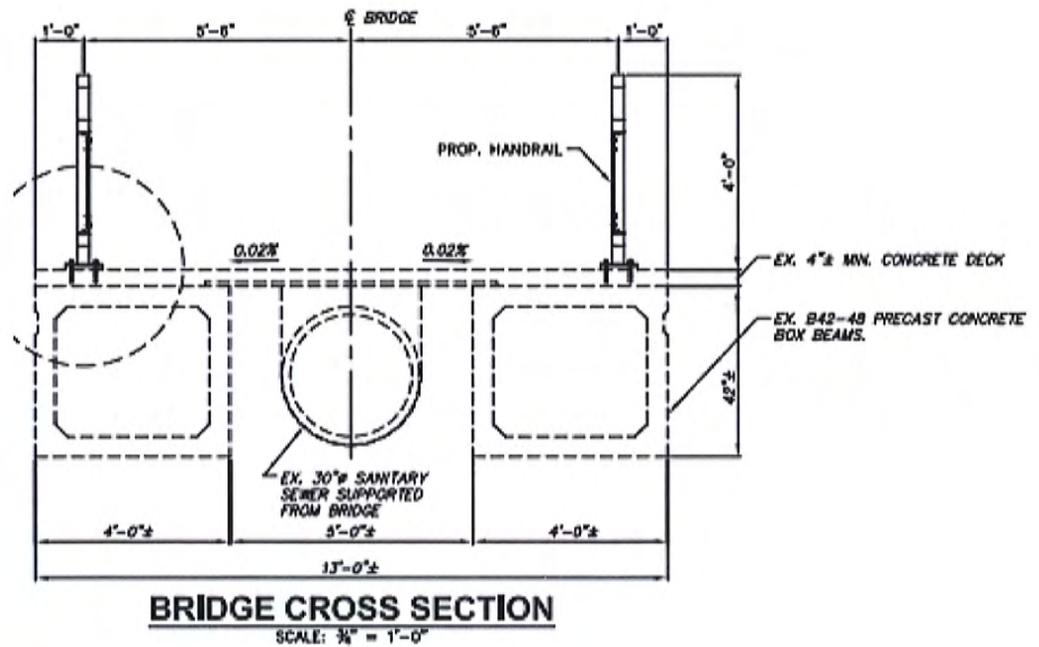
Image #1

Existing Bridge Structure crossing the Olentangy River at US23/SR315/Stratford Road



Image #2

Cross-Section of Existing Bridge Showing Proposed Addition of Rail Improvements



AUGUST 15, 2018

## HILLS MILLER ROAD SIDEWALK EXTENSION

### INFORMATION AT A GLANCE

-----  
COST  
\$ 25,000  
-----

FUNDING

Trust Fund \$25,000  
-----

### PROJECTED SCHEDULE

|                |      |
|----------------|------|
| Prelim. Design | 2018 |
| Final Design   | 2019 |
| Permitting     | 2019 |
| Construction   | 2019 |

-----  
CITY LEAD  
Public Works

DESIGN CONSULTANT  
TBD

CONTRACTOR  
TBD  
-----

### Purpose

200 LF Extension of a 5'-0 concrete sidewalk along the north side of Hills Miller Road from the current terminus at the southwest corner of the Speedway property to a point opposite Bruce Road. Project will included construction of required ADA ramps on both sides of Hills Miller Road.

### Financing

The project is anticipated to cost roughly \$25,000. The Trust Fund has \$46,375 in developer contributions available for sidewalk improvements along the US 23/Hills Miller corridor.

### Status

The project is currently in the concept phase to determine the level of survey and design effort required to advance the initiative through to construction.



AUGUST 15, 2018

## CURTIS STREET & FIRESTONE DRIVE INTERSECTION IMPROVEMENTS

### INFORMATION AT A GLANCE

-----  
PROJECT  
COST  
\$226,000

-----  
FUNDING

TRUST FUND  
\$80,000

ASSESSMENTS  
\$119,000

LOCAL  
\$27,000  
-----

### PROJECTED SCHEDULE

Design 2019

Construction 2020  
-----

CITY LEAD  
Public Works

DESIGN CONSULTANT  
TBD

CONTRACTOR  
TBD  
-----

IMAGE #1

Project  
Location Map

### Purpose

This project will add a left turn lane for northbound traffic on Curtis Street turning left onto Firestone Drive to travel westbound. Currently, during periods of heavy traffic, there is a need to separate turning vehicles from vehicles continuing to travel northbound. Curtis Street and Firestone Drives are both Collector Streets that provide routes for high volumes of traffic. The project will also include improvements to the existing railroad grade crossing. These improvements will fulfill a portion of the Curtis Street Realignment Project identified in the City's 2016 Priority Roadway Improvements and Expansion Projects document.

### Financing

The project is anticipated to cost approximately \$226,000. The City's Transportation Trust Fund/Assessments will cover \$199,000 assuming the Del-Mor project proposed for the northwest corner of the intersection advances. The amount includes the anticipation final collection of \$119,000 through property assessment contributions in the Curtis Farms subdivision.

### Status

The project is in the conceptual design stage and will advance to full design in 2019 if funds for design are appropriated in the 2019 Budget. As additional development is proposed at the northwest corner of this intersection, it is important to construct this project in a timely manner. Also, the completion of Boulder Drive to the west will increase the utilization of Firestone Drive as an alternate path to travel to Veteran's Park and the YMCA.

