

Rule of Thumb –

Sewer Mains in the City

Sewer mains were designed to last 50 years!

- However, the new plastic lines are more durable than the vitrified clay that makes up the majority of sewer lines in the older parts of O'Fallon; therefore, assume that O'Fallon sewer mains could last 75 to 80 years on..
- With approximately 110 miles or so of City mains in the O'Fallon system, the need is to replace or line about 1/80th (1.375 miles or 7,250 ft) of the system per year.
- Average cost around \$50 to \$150 per foot dependent upon obstructions (other utilities) in the path and the depth of burial.
- At \$70 per foot, replacement or lining (if possible) would need to be about \$500,000 per year.

Funding spent and/or shortfall of funding for sewer main replacement or lining:

- | | |
|-----------------------|-----------------------|
| • CY 2008 - \$200,000 | Shortfall - \$300,000 |
| • CY 2007 - \$0 | Shortfall - \$500,000 |
| • CY 2006 - \$187,000 | Shortfall - \$313,000 |
| • CY 2005 - \$135,000 | Shortfall - \$365,000 |
| • CY 2004 - \$0 | Shortfall – \$500,000 |
| • CY 2003 - \$0 | Shortfall – \$500,000 |

Rule of Thumb –

Manholes along Sewer Mains

Sewer manholes were designed to last 30 years!

- However, the new concrete manholes are a little more durable and need less maintenance on average than the brick ones that make up the majority of our inventory in the older parts of O'Fallon; therefore, assume that O'Fallon manholes need to be lined, re-built or maintained in some way in our neighborhoods every 50 years on average.
- With approximately 2,300 manholes along neighborhood mains in the O'Fallon system, the need is to line, rebuild, or maintain about 1/50th or 45 manholes per year at least in the short run.
- Average cost for replacement or lining of a manhole ranges from \$3,000 to \$10,000 per manhole dependent on depth and pipe penetrations to be accommodated.
- At \$3,000 per manhole for lining (no rebuilding which is more costly), \$135,000 per year is needed.
- **Replacement or lining of O'Fallon system manholes:**
 - **CY 2008 - \$25,000 Shortfall - \$110,000**
 - **CY 2007 - \$0 Shortfall - \$135,000**
 - **CY 2006 - \$29,000 Shortfall - \$106,000**
 - **CY 2005 - \$50,000 Shortfall - \$85,000**
 - **CY 2004 - \$4,950 Shortfall – \$134,050**
 - **CY 2003 - \$0 Shortfall – \$135,000**

Rule of Thumb –

Sewer Mains in the City

Sewer mains were designed to last 50 years!

- However, the new plastic lines are more durable than the vitrified clay that makes up the majority of sewer lines in the older parts of O'Fallon; therefore, assume that O'Fallon sewer mains could last 75 to 80 years on..
- With approximately 110 miles or so of City mains in the O'Fallon system, the need is to replace or line about 1/80th (1.375 miles or 7,250 ft) of the system per year.
- Average cost around \$50 to \$150 per foot dependent upon obstructions (other utilities) in the path and the depth of burial.
- At \$70 per foot, replacement or lining (if possible) would need to be about \$500,000 per year.

Funding spent and/or shortfall of funding for sewer main replacement or lining:

- | | |
|-----------------------|-----------------------|
| • CY 2008 - \$200,000 | Shortfall - \$300,000 |
| • CY 2007 - \$0 | Shortfall - \$500,000 |
| • CY 2006 - \$187,000 | Shortfall - \$313,000 |
| • CY 2005 - \$135,000 | Shortfall - \$365,000 |
| • CY 2004 - \$0 | Shortfall – \$500,000 |
| • CY 2003 - \$0 | Shortfall – \$500,000 |

Rule of Thumb –

Manholes along Sewer Mains

Sewer manholes were designed to last 30 years!

- However, the new concrete manholes are a little more durable and need less maintenance on average than the brick ones that make up the majority of our inventory in the older parts of O'Fallon; therefore, assume that O'Fallon manholes need to be lined, re-built or maintained in some way in our neighborhoods every 50 years on average.
- With approximately 2,300 manholes along neighborhood mains in the O'Fallon system, the need is to line, rebuild, or maintain about 1/50th or 45 manholes per year at least in the short run.
- Average cost for replacement or lining of a manhole ranges from \$3,000 to \$10,000 per manhole dependent on depth and pipe penetrations to be accommodated.
- At \$3,000 per manhole for lining (no rebuilding which is more costly), \$135,000 per year is needed.
- **Replacement or lining of O'Fallon system manholes:**

| | |
|----------------------|-----------------------|
| • CY 2008 - \$25,000 | Shortfall - \$110,000 |
| • CY 2007 - \$0 | Shortfall - \$135,000 |
| • CY 2006 - \$29,000 | Shortfall - \$106,000 |
| • CY 2005 - \$50,000 | Shortfall - \$85,000 |
| • CY 2004 - \$4,950 | Shortfall – \$134,050 |
| • CY 2003 - \$0 | Shortfall – \$135,000 |