

Development & Engineering



TRENCHLESS TECHNOLOGY TO BE USED FOR THUNDERBIRD WATER MAIN REHABILITATION

Multiple failures on the 16-inch PVC water main in Thunderbird Road at L101 have prompted the city to address the issue to prevent future leaks. These past failures not only caused a service interruption to area customers, but also created significant traffic backups and closures at the L101 interchange.

The city, together with contractor Achen-Gardner, will begin construction in mid-April of a two-phased project to restore reliability to the water distribution system in the area.

Phase 1, which will run through May, will involve installing a flexible Kevlar-reinforced liner inside the existing 16-inch PVC water main across the length of the interchange. This liner will fully restore the operational integrity of the water main while at the same time avoiding the need for an open trench, as typically required in water line replacements. Excavations will be limited to the liner launching and receiving pits on the each side of the L101, reducing repair time and minimizing inconvenience to commuters.

Phase 2 will replace the existing PVC main with ductile iron pipe, from the liner termination on the west side of L101 to 88th Avenue. This work is scheduled for late summer 2018.

Completion of this project will restore reliability to the water distribution system in the area.

STATISTICAL INDICATORS

Capital Improvement Program

Active Design Projects: 10
 Active Design Costs: \$6,033,237
 Active Construction Projects: 9
 Active Construction Costs: \$22,430,611

Site Development

Civil Reviews Completed

| Mar 17 | Mar 18 |
|--------|--------|
| 107 | 71 |

Average Turnaround Time

| Mar 17 | Mar 18 |
|--------|--------|
| 12.57 | 15.90 |

Active Design Projects

| Mar 17 | Mar 18 |
|--------|--------|
| 150 | 85 |

Active Construction Projects

| Mar 17 | Mar 18 |
|--------|--------|
| 201 | 103 |

Building Development

New Commercial Permits

| Mar 17 | Mar 18 |
|--------|--------|
| 3 | 1 |

Tenant Improvement Permits

| Mar 17 | Mar 18 |
|--------|--------|
| 9 | 8 |

Total Commercial Permits

| Mar 17 | Mar 18 |
|--------|--------|
| 49 | 50 |

New Single Family Permits

| Mar 17 | Mar 18 |
|--------|--------|
| 149 | 80 |

Total Residential Permits

| Mar 17 | Mar 18 |
|--------|--------|
| 412 | 400 |

Commercial Plan Reviews

| Mar 17 | Mar 18 |
|--------|--------|
| 95 | 58 |

Residential Plan Reviews

| Mar 17 | Mar 18 |
|--------|--------|
| 323 | 536 |

Rollover Inspections

| Mar 17 | Mar 18 |
|--------|--------|
| 135 | 238 |