

I. Project Segment Description

- A. Location: This project segment is located on Greenbrier Drive from Preston Park Drive to Devonshire Drive.

| Location Information | |
|----------------------|-------|
| Description | Data |
| Water ID | 398 |
| MAPSCO | 24Z |
| DWU W/S Map | 24-23 |
| Council District | 13 |

- B. Existing Conditions

| Description | Water Main | Wastewater Main |
|---------------|----------------|-----------------|
| DWU As-built | Preston F.W.D. | N/A |
| Length (ft) | 1,150 | N/A |
| Diameter (in) | 6" | N/A |
| Year Built | Unknown | N/A |
| Material | C.I. | N/A |

II. Field Observations

- A. Easements and Right-of-Way

The water main being replaced is within the dedicated street R.O.W. No additional easements are required.

- B. Surface/Pavement

Greenbrier Drive is an concrete street with curb and gutter. The pavement is in good condition within the project limit.

- C. Trees and Landscaping

There are existing large trees and landscaping in the parkway, but these should not be adversely affected because the line to be replaced is under the existing street.

- D. Adjacent Structures

There are existing storm inlets near the Devonshire Drive intersection located within the street R.O.W.

III. Recommendation

A. Water Main Improvement

It is recommended that the existing 6" water main be replaced with 8" PVC Class 200 water pipe.

B. Wastewater Improvement

No associated wastewater main replacement is included in this project.

C. Construction/Surface Improvement

Open cut method is recommended for the water line replacement due to the following factors: (1) Greenbrier Drive is a residential street which is easily accessible with dedicated R.O.W., and (2) The water main has numerous service connections that will require open cut to make the connection to the proposed main. The existing pavement should be sawcut and replaced with the same type of pavement removed, per City of Dallas standards.

D. Traffic Control

Greenbrier Drive is a two-way, two-lane residential street with parallel parking and front entry driveways on both sides of the roadway. Traffic will have to be limited to one lane only during construction. Both Preston Park Drive and Devonshire Drive are busy two-way, two-lane residential streets that will have to be shut down to alternating lanes to allow through traffic to facilitate the water line construction.

IV. Opinion of Probable Cost

| Opinion of Probable Cost | | | | |
|--------------------------|------|------------------------------|--------------|-------------------|
| Qty | Unit | Description | Unit Cost \$ | Total \$ |
| 1,150 | LF | 8" PVC Class 200 Water Pipe | 60.00 | 69,000.00 |
| 2 | EA | 8" Gate Valve | 800.00 | 1,600.00 |
| 1 | EA | 6" Gate Valve | 600.00 | 600.00 |
| 26 | EA | Water Service Connection | 600.00 | 15,600.00 |
| 1,150 | LF | Trench Safety System | 1.50 | 1,725.00 |
| 86 | CY | Reinforced Concrete Pavement | 165.00 | 14,190.00 |
| 58 | TN | Asphalt Pavement | 80.00 | 4,640.00 |
| 40 | LF | 6" PVC C900 Water Line | 50.00 | 2,000.00 |
| 29 | CY | Temp Paving Flex Base | 30.00 | 870.00 |
| 58 | TN | Temp Asphalt Paving | 55.00 | 3,190.00 |
| 2 | EA | Fire Hydrant | 2,000.00 | 4,000.00 |
| 0.3 | TN | Cast Iron Fittings | 1,500.00 | 450.00 |
| | | | | |
| | | TOTAL | | 117,865.00 |
| | | | | |