

**I. Project Segment Description**

- A. Location: This project segment is located on Felicia Court from Beechmont Drive to the north end of Felicia Court.

Location Information	
Description	Data
Water ID	333
MAPSCO	38U
DWU W/S Map	32-36
Council District	7

- B. Existing Conditions

Description	Water Main	Wastewater Main
DWU As-built	N/A	Q1246 Sh. 33
Length (ft)	200	200
Diameter (in)	4"	6"
Year Built	Unknown	1962
Material	C.I.	VCT

**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

Felicia Court 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 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 overhead electrical lines, street lighting, and sanitary sewer located within the street R.O.W.

**III. Recommendation**

A. Water Main Improvement

It is recommended that the existing 4" water main be replaced with 8" PVC Class 200 water pipe.

B. Wastewater Improvement

It is recommended that the existing 6" wastewater main be left in place because there should be adequate space on Felicia Court to provide a 9-foot separation from the water main.

C. Construction/Surface Improvement

Open cut method is recommended for the water line replacement due to the following factors: (1) Talisman 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

Felicia Court is a two-way, two-lane residential street with driveway access and parallel parking on both sides of the circle. Traffic will have to be limited to one lane only during construction. Beechmont Drive is a two-way, two-lane street with low traffic. A short section of Beechmont Drive near the intersection of Felicia Court will need to be closed to facilitate the water line construction.

**IV. Opinion of Probable Cost**

<b>Opinion of Probable Cost</b>				
<b>Qty</b>	<b>Unit</b>	<b>Description</b>	<b>Unit Cost \$</b>	<b>Total \$</b>
200	LF	8" PVC Class 200 Water Pipe	60.00	12,000.00
1	EA	8" Gate Valve	800.00	800.00
1	EA	6" Gate Valve	600.00	600.00
7	EA	Water Service Connection	600.00	4,200.00
140	LF	Trench Safety System	1.50	210.00
11	CY	Reinforced Concrete Pavement	165.00	1,815.00
20	LF	6" PVC Class 200 Water Pipe	50.00	1,000.00
4	CY	Temp Paving Flex Base	30.00	120.00
7	TN	Temp Asphalt Paving	55.00	385.00
1	EA	Fire Hydrant	2,000.00	2,000.00
0.1	TN	Cast Iron Fittings	1,500.00	150.00
		<b>TOTAL</b>		<b>23,280.00</b>