

I. Project Segment Description

- A. Location: This project segment is located on Martel Avenue from Worcola Street to McMillan Avenue.

Location Information	
Description	Data
Water ID	587
MAPSCO	36N
DWU W/S Map	29-27, 28
Council District	9

- B. Existing Conditions

Description	Water Main	Wastewater Main
DWU As-built	T47, 48	N/A
Length (ft)	750	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

Martel Avenue is an asphalt street with concrete curb and gutter. The pavement is in fair 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 storm inlets near the Worcola Street 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) Martel Avenue is a residential street which is easily accessible with dedicated R.O.W. and flexible pavement, 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

Martel Avenue 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. McMillan Avenue is a two-way, two-lane, divided street with busy traffic. A short section of the north bound of McMillan Avenue will need to be closed to facilitate the water line construction. Also, the south bound lane of the two-lane, two-way residential street, Worcola Street, will be closed during the construction period.

IV. Opinion of Probable Cost

Opinion of Probable Cost				
Qty	Unit	Description	Unit Cost \$	Total \$
750	LF	8" PVC Class 200 Water Pipe	60.00	45,000.00
3	EA	8" Gate Valve	800.00	2,400.00
1	EA	6" Gate Valve	600.00	600.00
26	EA	Water Service Connection	600.00	15,600.00
750	LF	Trench Safety System	1.50	1,125.00
56	CY	Reinforced Concrete Pavement	165.00	9,240.00
38	TN	Asphalt Pavement	80.00	3,040.00
20	LF	6" PVC C900 Water Line	50.00	1,000.00
19	CY	Temp Paving Flex Base	30.00	570.00
38	TN	Temp Asphalt Paving	55.00	2,090.00
1	EA	Fire Hydrant	2,000.00	2,000.00
0.5	TN	Cast Iron Fittings	1,500.00	750.00
		TOTAL		83,415.00