

I. Project Segment Description

- A. Location: This project segment is located on Del Norte Lane from Preston Road to Edgemere Road.

Location Information	
Description	Data
Water ID	249
MAPSCO	25T, 25U
DWU W/S Map	22-24, 22-25
Council District	13

- B. Existing Conditions

Description	Water Main	Wastewater Main
DWU As-built	N/A	N/A
Length (ft)	2,700	N/A
Diameter (in)	8"	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

Del Norte Lane is an asphalt street with concrete 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 front yards, 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 sewer, underground telephone, gas lines, and fiber optics located within the street R.O.W. RJN will coordinate with all the individual utility companies during preliminary and final design to avoid potential field conflict with the respective utility.

III. Recommendation

A. Water Main Improvement

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

B. Wastewater Improvement

No associated wastewater main replacement is included in this project. Existing wastewater mains are located in alleys.

C. Construction/Surface Improvement

Open cut method is recommended for the water line replacement due to the following factors: (1) Del Norte Lane 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 saw cut and replaced with the same type of pavement removed, per City of Dallas standards for the width of trench only.

D. Traffic Control

Del Norte Lane is a two-way, two-lane residential street with parallel parking on both sides of the roadway. Traffic will have to be limited to one lane only during construction. There should be adequate room on Del Norte Lane to maintain necessary traffic flow. Traffic movement will have to be restricted at the intersections of Preston Road and Del Norte Lane, and Edgemere Road and Del Norte Lane in order to make the connections to the existing water mains.

IV. Opinion of Probable Cost

Opinion of Probable Cost				
Qty	Unit	Description	Unit Cost \$	Total \$
2,700	LF	8" PVC Class 200 Water Pipe	60.00	162,000.00
3	EA	8" Gate Valve	800.00	2,400.00
6	EA	6" Gate Valve	600.00	3,600.00
62	EA	Water Service Connection	600.00	37,200.00
2,700	LF	Trench Safety System	1.50	4,050.00
200	CY	Reinforced Concrete Pavement	165.00	33,000.00
135	TN	Asphalt Pavement	80.00	10,800.00
120	LF	6" PVC C900 Water Line	50.00	6,000.00
67	CY	Temp Paving Flex Base	30.00	2,010.00
135	TN	Temp Asphalt Paving	55.00	7,425.00
6	EA	Fire Hydrant	2,000.00	12,000.00
0.5	TN	Cast Iron Fittings	1,500.00	750.00
		TOTAL		281,235.00