

**I. Project Segment Description**

- A. Location: This project segment is located on Douglas Avenue from Hall Street to Lemmon Avenue.

Location Information	
Description	Data
Water ID	269
MAPSCO	34R
DWU W/S Map	32-24
Council District	14

- B. Existing Conditions

Description	Water Main	Wastewater Main
DWU As-built	M-46 and N-46	Q1945 Sh. 48
Length (ft)	1,150	900
Diameter (in)	6"	15"
Year Built	Unknown	1985
Material	C.I.	PVC

**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

Douglas Avenue 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 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, storm sewers, and street lighting 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. There are three 1.5" dead end water mains within the project limits as shown on the exhibit. We recommend to abandon these three water mains and reconnect all active service connections to the proposed 8" water main.

B. Wastewater Improvement

The existing wastewater main parallel to the proposed water main is relatively new (built in 1985). Also, there should be adequate room on Douglas Avenue to maintain a 9-foot separation between the proposed water main and the existing wastewater main. Therefore, 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) Douglas 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 for the width of trench only.

D. Traffic Control

Douglas Avenue is a one-way, three-lane residential street with busy traffic. One lane has to be closed during 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
4	EA	8" Gate Valve	800.00	3,200.00
15	EA	Water Service Connection	600.00	9,000.00
1,150	LF	Trench Safety System	1.50	1,725.00
85	CY	Reinforced Concrete Pavement	165.00	14,025.00
58	TN	Asphalt Pavement	80.00	4,640.00
29	CY	Temp Paving Flex Base	30.00	870.00
58	TN	Temp Asphalt Paving	55.00	3,190.00
0.5	TN	Cast Iron Fittings	1,500.00	750.00
		<b>TOTAL</b>		<b>106,400.00</b>