

**I. Project Segment Description**

- A. Location: This project segment is located in the alley between Ravina Drive and Barnett Avenue from Ninth Street to Coombes Creek (north of Jefferson Boulevard).

Location Information	
Description	Data
Water ID	54
MAPSCO	53G
DWU W/S Map	44-18
Council District	1

- B. Existing Conditions

Description	Water Main	Wastewater Main
DWU As-built	N/A	411Q 265 Sh. 1
Length (ft)	550	550
Diameter (in)	2"	6"
Year Built	Unknown	1931
Material	C.I.	VCT

**II. Field Observations**

- A. Easements and Right-of-Way

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

- B. Surface/Pavement

The alley is unpaved within the project limit.

- C. Trees and Landscaping

There are existing trees and landscaping along the alley, but these should not be adversely affected because the line to be replaced is under the existing alley.

- D. Adjacent Structures

There are existing overhead electrical lines and sanitary sewer located within the alley R.O.W.

**III. Recommendation**

A. Water Main Improvement

It is recommended that the existing 2" water main be replaced with 8" PVC Class 200 water pipe.

B. Wastewater Improvement

It is recommended that the existing 6" VCT sewer be replaced by 8" PVC SDR 26 pressure rated wastewater pipe required to meet TNRCC standard requirements.

C. Construction/Surface Improvement

Open cut method is recommended for the water line replacement due to the following factors: (1) The alley is a residential alley which is easily accessible with dedicated R.O.W., (2) The surface is unpaved, and (3) The water main has numerous service connections that will require open cut to make the connection to the proposed main. The existing surface should be excavated and replaced with the same type of surface material removed, per City of Dallas standards.

D. Traffic Control

The alley is used by sanitation vehicles and will be completely closed during the construction period.

**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>
550	LF	8" PVC Class 200 Water Pipe	60.00	33,000.00
1	EA	6" Gate Valve	600.00	600.00
1	EA	8" Gate Valve	800.00	800.00
19	EA	Water Service Connection	600.00	11,400.00
1,100	LF	Trench Safety System	1.50	1,650.00
20	LF	6" PVC C900 Water Line	50.00	1,000.00
21	CY	Temp Paving Flex Base	30.00	630.00
1	EA	Fire Hydrant	2,000.00	2,000.00
0.1	TN	Cast Iron Fittings	1,500.00	150.00
550	LF	8" PVC SDR26 Pressure Rated Wastewater Pipe	65.00	35,750.00
19	EA	Wastewater Service Connection	650	12,350.00
		<b>TOTAL</b>		<b>99,330.00</b>