

**I. Project Segment Description**

- A. Location: This project segment is located within the alley between Garrett Avenue and Bennett Avenue from Monarch Street to Fuqua Street.

Location Information	
Description	Data
Water ID	367
MAPSCO	36W
DWU W/S Map	33-27
Council District	2

- B. Existing Conditions

Description	Water Main	Wastewater Main
DWU As-built	P. 2-49	Q337-B, Sh. 6-7
Length (ft)	700	700
Diameter (in)	2"	6"
Year Built	Unknown	1951
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 a concrete drive with a short unpaved section in poor condition within the project limit.

- C. Trees and Landscaping

There are existing trees and landscaping in 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, gas utilities, 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" wastewater main be replaced with 8" pressure rated PVC pipe due to its age, size, and close proximity to the water main.

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 water main has numerous service connections that will require open cut to make the connection to the proposed main, and (3) The residents can access the apartments from either the side streets, Fuqua, Chambers, and Monarch or the main streets Garrett and Bennett Avenue. The existing pavement should be sawcut and replaced with the same type of pavement removed, per City of Dallas standards.

D. Traffic Control

The alley is a one-lane, two-way alley with driveway and parking lot access for apartment residents. Traffic through the alley will be completely restricted during the construction period. The three busy residential streets perpendicular to the alley will be closed with alternating lanes with the exception of Monarch Street which will require that only the south bound lane to be closed to facilitate the water line construction.

IV. Opinion of Probable Cost

Opinion of Probable Cost				
Qty	Unit	Description	Unit Cost \$	Total \$
700	LF	8" PVC Class 200 Water Pipe	60.00	42,000.00
2	EA	8" Gate Valve	800.00	1,600.00
17	EA	Water Service Connection	600.00	10,200.00
1,400	LF	Trench Safety System	1.50	2,100.00
130	CY	Reinforced Concrete Pavement	165.00	21,450.00
88	TN	Asphalt Pavement	80.00	7,040.00
45	CY	Temp Paving Flex Base	30.00	1,350.00
88	TN	Temp Asphalt Paving	55.00	4,840.00
0.2	TN	Cast Iron Fittings	1,500.00	300.00
700	LF	8" PVC SDR26 Pressure Rated Wastewater Pipe	70.00	49,000.00
17	EA	Wastewater Service Connection	650.00	11,050.00
3	EA	Wastewater Manhole	2,500.00	7,500.00
		<b>TOTAL</b>		<b>158,430.00</b>