

I. Project Segment Description

- A. Location: This project segment is located on Georgia Avenue from Idaho Avenue to Denley Street.

Location Information	
Description	Data
Water ID	378
MAPSCO	55N
DWU W/S Map	48-24
Council District	6

- B. Existing Conditions

Description	Water Main	Wastewater Main
DWU As-built	J20	Q1347 Sh. 1
Length (ft)	2,020	200
Diameter (in)	6"	8"
Year Built	Unknown	1928
Material	C.I.	Unknown

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

Georgia Avenue is an asphalt street without 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 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 overhead electrical lines, storm sewers, underground telephone lines, 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.

B. Wastewater Improvement

As-built research revealed that the wastewater main within the water main replacement limits was built in 1928. However, a relatively new asphalt patch along the existing wastewater main was observed in the field indicating a recent pipe replacement. Additional research is required at this time to locate the most updated as-built information.

C. Construction/Surface Improvement

Open cut method is recommended for the water line replacement due to the following factors: (1) Georgia Avenue is a residential street which is easily accessible with dedicated R.O.W., and (2) The water main has numerous main line tie-ins 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

Georgia Avenue is a two-way, two-lane residential street. Traffic will have to be limited to one lane only during construction. Ewing Avenue is a two-way, two-lane residential street with busy traffic. Construction across Ewing Avenue will have to close one lane at a time.

IV. Opinion of Probable Cost

Opinion of Probable Cost				
Qty	Unit	Description	Unit Cost \$	Total \$
2,020	LF	8" PVC Class 200 Water Pipe	60.00	121,200.00
7	EA	8" Gate Valve	800.00	5,600.00
6	EA	6" Gate Valve	600.00	3,600.00
5	EA	Water Service Connection	600.00	3,000.00
2,020	LF	Trench Safety System	1.50	3,030.00
150	CY	Reinforced Concrete Pavement	165.00	24,750.00
101	TN	Asphalt Pavement	80.00	8,080.00
150	LF	6" PVC C900 Water Line	50.00	7,500.00
50	CY	Temp Paving Flex Base	30.00	1,500.00
101	TN	Temp Asphalt Paving	55.00	5,555.00
6	EA	Fire Hydrant	2,000.00	12,000.00
1.5	TN	Cast Iron Fittings	1,500.00	2,250.00
		TOTAL		198,065.00