

I. Project Segment Description

- A. Location: This project segment is located on Empire Central Place from Empire Central Drive to 500 feet southeast.

Location Information	
Description	Data
Water ID	316
MAPSCO	33P
DWU W/S Map	30-17
Council District	12

- B. Existing Conditions

Description	Water Main	Wastewater Main
DWU As-built	F.B. 382 p. 43	Q1813 Sh. 20
Length (ft)	400	200
Diameter (in)	8"	10"
Year Built	1968	1968
Material	C.I.	VCT

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

Empire Central Place is a divided concrete street with 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 median of the divided roadway that may be affected because the line to be replaced is near and possibly under the median.

- D. Adjacent Structures

There are existing street lighting and traffic signs located within the street R.O.W.

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

There should be adequate space on Empire Central Place to provide the necessary separation between the existing 10" wastewater main and the proposed 8" water 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 since the water main is near and possibly under the median and only one lane on either side of the divided roadway will be closed to traffic during construction. The existing pavement should be sawcut and replaced with the same type of pavement removed, per City of Dallas standards.

D. Traffic Control

Empire Central Place is a four-way, two-lane divided commercial street with parallel parking on both sides of the roadway. Traffic will be limited to one lane only on either side during construction. Empire Central Drive is a two-way, four-lane, divided street with busy traffic. A short section of the right lane on the north bound of Empire Central Drive will need to be closed to facilitate the water line construction.

IV. Opinion of Probable Cost

Opinion of Probable Cost				
Qty	Unit	Description	Unit Cost \$	Total \$
400	LF	8" PVC Class 200 Water Pipe	60.00	24,000.00
3	EA	8" Gate Valve	800.00	2,400.00
1	EA	6" Gate Valve	600.00	600.00
4	EA	Water Service Connection	600.00	2,400.00
400	LF	Trench Safety System	1.50	600.00
30	CY	Reinforced Concrete Pavement	165.00	4,950.00
50	LF	6" PVC C900 Water Line	50.00	2,500.00
10	CY	Temp Paving Flex Base	30.00	300.00
20	TN	Temp Asphalt Paving	55.00	1,100.00
1	EA	Fire Hydrant	2,000.00	2,000.00
0.3	TN	Cast Iron Fittings	1,500.00	450.00
		TOTAL		41,300.00