

I. Project Segment Description

- A. Location: This project segment is located on Lanward Circle from Lanward Drive to the west end of Lanward Circle.

Location Information	
Description	Data
Water ID	538
MAPSCO	28W
DWU W/S Map	20-35
Council District	13

- B. Existing Conditions

Description	Water Main	Wastewater Main
DWU As-built	N/A	N/A
Length (ft)	370	N/A
Diameter (in)	4" & 6"	N/A
Year Built	Unknown	N/A
Material	C.I.	N/A

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

Lanward Circle is a concrete street with 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 parkway, but these should not be adversely affected because the line to be replaced is under the existing street.

- D. Adjacent Structures

There is an existing sanitary sewer line that crosses the project area within the street R.O.W.

III. Recommendation

A. Water Main Improvement

It is recommended that the existing 4" and 6" water main be replaced with 8" PVC Class 200 water pipe.

B. Wastewater Improvement

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) Lanward Circle is a residential street which is easily accessible with dedicated R.O.W., 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.

D. Traffic Control

Lanward Circle is a two-way, two-lane residential street with parallel parking on both sides of the roadway and alley access near Lanward Drive. Traffic will have to be limited to one lane only during construction and access to the alley will be restricted. Lanward Drive is a two-way, two-lane street with light residential traffic. A short section of the south bound of Lanward 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 \$
370	LF	8" PVC Class 200 Water Pipe	60.00	22,200.00
1	EA	8" Gate Valve	800.00	800.00
1	EA	6" Gate Valve	600.00	600.00
10	EA	Water Service Connection	600.00	6,000.00
370	LF	Trench Safety System	1.50	555.00
28	CY	Reinforced Concrete Pavement	165.00	4,620.00
19	TN	Asphalt Pavement	80.00	1,520.00
20	LF	6" PVC C900 Water Line	50.00	1,000.00
10	CY	Temp Paving Flex Base	30.00	300.00
19	TN	Temp Asphalt Paving	55.00	1,045.00
1	EA	Fire Hydrant	2,000.00	2,000.00
0.4	TN	Cast Iron Fittings	1,500.00	600.00
		TOTAL		41,240.00