



4800 Ashford Dunwoody Road
 Dunwoody, Georgia 30338
 dunwoodyga.gov | 678.382.6700

MEMORANDUM

To: Mayor and City Council

From: Michael Smith, Public Works Director

Date: May 23, 2022

Subject: **Approval of a Construction Contract to Upgrade the Stormwater Pipe Crossing near 3900 Spalding Drive**

ACTION

Authorize the Mayor, City Manager, or designee to execute all documents necessary and proper for a construction contract with Astra Construction Services, LLC, procured through the Georgia Department of Administrative Services statewide convenience contract, to upgrade the stormwater pipe crossing near 3900 Spalding Drive.

SUMMARY

The city has evaluated the following options to upsize the existing stormwater pipe near 3900 Spalding Drive and the Dunwoody city limit (see attached map) to handle the increased flow from the intersection improvements at Chamblee Dunwoody Road.

- A. Removing the existing pipe and placing a new larger pipe below 4 City of Atlanta water mains
- B. Raising the entire road bed 3 to 4 feet to place the new pipe over the water mains
- C. Boring two new pipes side by side under the water mains along a new alignment

Boring under the roadway along a new alignment is the preferred option based on cost and ease of construction. The city is in the process of negotiating a final price with Astra Construction Services, LLC under a statewide convenience contract with unit prices procured competitively through the Georgia Department of Administrative Services. The cost is projected to be around \$500,000 which is about \$100,000 less than the bid price that was obtained for option A above. A final cost will be presented at the June 13th City Council meeting.

DETAILS

The stormwater drainage system for the intersection improvements at Chamblee Dunwoody Road and Spalding Drive was designed to flow into a pipe under Spalding Drive that was to be increased in size from 24 inches to 48 inches in diameter. During construction the contractor discovered that 4 City of Atlanta water mains at varying depths would require the new storm pipe to be 12 feet deep to clear the water lines. According to City of Atlanta engineers, the 12 to 24-inch diameter mains provide water to the 'Pill Hill' area and they could not be bypassed or temporarily taken out of service. In order to protect the mains while excavating to replace the stormwater pipe, Dunwoody worked with a City of Atlanta approved, structural engineer to develop a robust shoring and bracing system. The city advertised a bid for this work (ITB 22-03) and received a bid from Blount Construction for \$650,806.20 and from GS Construction for \$1,543,000. The cost of the shoring and bracing alone was \$250,000 in Blount's bid and both



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bids appear to reflect the current scarcity in the construction industry as well as the risk associated with excavating around the large water mains.

To arrive at a "Best and Final" cost proposal, the city approached the two responsive bidders to solicit value-engineering alternatives. GS withdrew from consideration and Blount furnished a cost proposal of \$584,000 based on an alternative design, which employs directional boring (in lieu of the proposed open cut / structural support). The city also obtained an engineer's estimate of \$562,000 to raise the road and place the new stormwater pipe above the water lines. As a final value-engineering check, the city obtained a preliminary cost proposal of \$450,000, excluding paving and de-watering, for the directional bore option from Astra Construction Services through the Georgia Department of Administrative Services statewide convenience contract. Astra is preparing the final contract cost which will be presented at the June 13th City Council meeting.

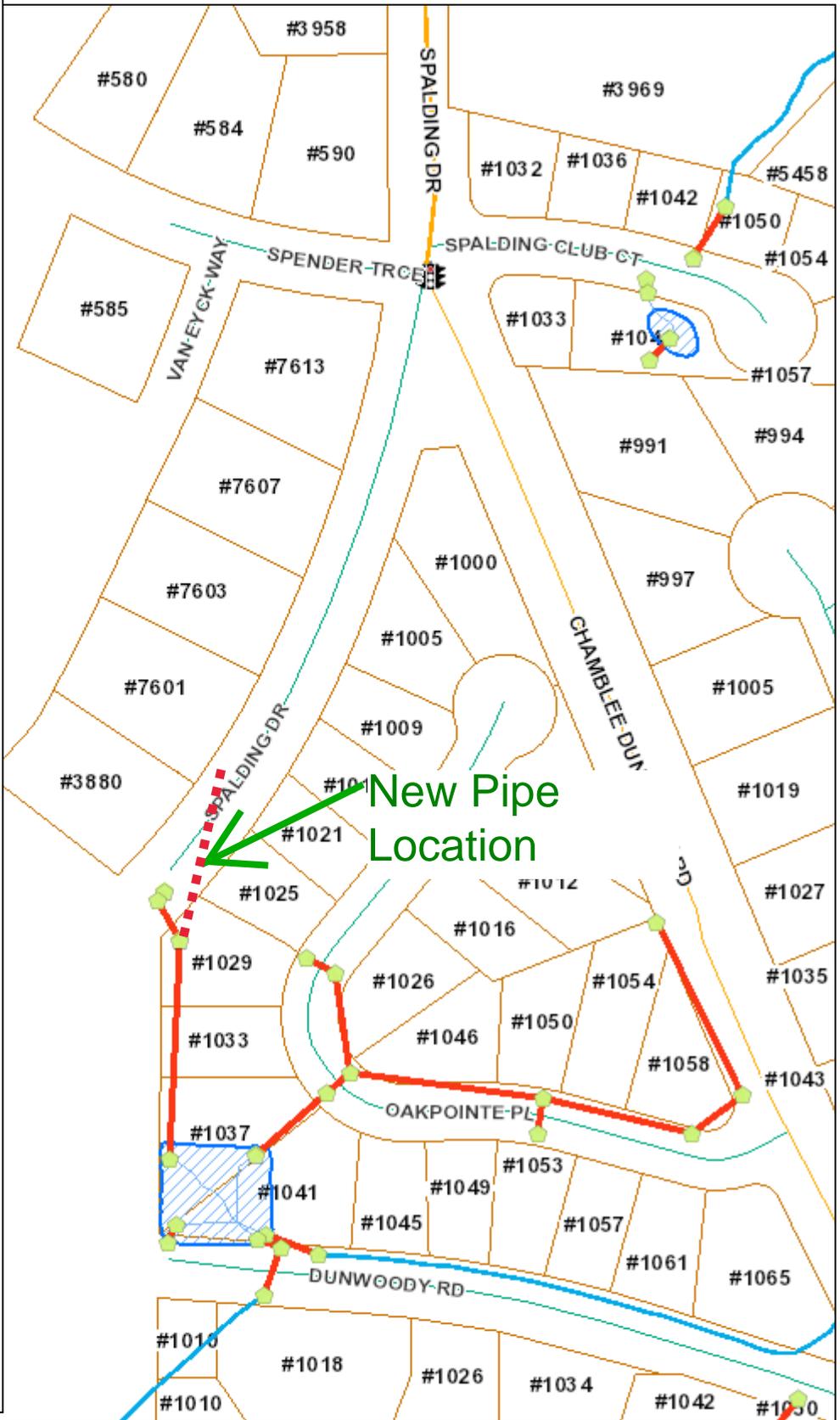
The funds for this work can be taken from the stormwater utility surplus fund balance which is approximately \$1.9 million.

The contractor for the intersection improvement project is preparing to complete their contract within the next few weeks and will then demobilize. Astra's directional boring subcontractor is expected to be available in August to begin the stormwater pipe upgrades and the work is expected to take about 1 month.



Legend

- swStructures - Review Notes
- swConveyances - Review Notes
- swStructures
- swConveyances**
- <all other values>
- CURB
- CURB AND GUTTER
- DETENTION BASIN LINE
- DRY OPEN CHANNEL
- FLUME
- FORCE MAIN
- GRAVITY PIPE
- LAKE LINE
- NOT APPLICABLE
- PAVED SWALE
- TRENCH DRAIN
- UNKNOWN
- WET OPEN CHANNEL
- swDetentionFacilities
- Parcels
- Signal
- Streets**
- Interstate Ramp; Interstate
- Freeway
- Minor Arterial
- Collector
- Local
- Private



The City of Dunwoody does not warrant the accuracy or currency of the map provided and does not guarantee the suitability of the map for any purpose, expressed or implied.

