

**South Greensboro Street Sidewalk Project – TIP# C-5650****Problem:**

The proposed drainage system the sidewalk project interferes with an existing 6-inch Asbestos Cement (AC) OWASA waterline that extends north-south along the west side of South Greensboro Street.

**Options:**

1. Redesign the drainage system to remove the conflict.

*There does not seem to be an option that would eliminate the conflict entirely and allow the project to move forward with the existing AC line still in use.*

2. Abandon the existing 6-inch AC line. Connect properties along the west side of South Greensboro Street to an existing 12-inch AC waterline located under the pavement near the east side of the street.

*Both lines are old. The 6-inch line cannot be abandoned without a replacement.*

3. Replace the 6-inch AC line with a new 6-inch Ductile Iron Pipe (DIP) line. (The abandoned 6-inch AC line would either remain in the ground or be removed as part of the replacement.)

*Replacement of the existing 6-inch AC line is not in OWASA's CIP. The expectation is that costs associated with the replacement would be charged to the sidewalk project: 80% federal/20% local match.*

- *Preliminary cost estimate: approximately \$200-\$250 per linear foot (1800 linear feet) assuming it is placed outside of the existing pavement = \$450,000 +/-*
- *If the line is placed within the existing pavement this would add additional pavement repair cost (\$60k-\$80k).*
- *RKA is working to obtain an estimate for design costs. The amount will be dependent on whether the repair is for the 6-inch or 12-inch pipe.*
- *Due to the current construction environment, these prices are subject to change.*
- *$\$450,000 + \$80,000 = \$530,000 \times \$79,500$  (15% PE design) =  $\$609,500 + 79,500$  CEI = **\$689,000** (No additional ROW costs). [80/20: 689,000 = 551,200/137,800]*

4. Replace the existing 12-inch AC line with a new 12-inch DIP line. Use the new line to provide service for both sides of the street. This would be considered a betterment; OWASA would pay for the increased cost of upsizing the replacement line to the larger pipe size. The installation process for the 12-inch line would, require closing South Greensboro Street during some/all of construction, have a greater impact on the community.

*Replacement of the existing 12-inch AC line is not in OWASA's CIP. The costs associated with the replacement would be charged to the sidewalk project. OWASA would consider the replacement of the 12-inch line a betterment and would pay for the difference of the installation of the larger pipe. Service on both sides of the street would connect to the new 12-inch main.*

- *Preliminary cost estimate: A 12" line would likely be closer to the \$300+ per linear foot if this line was placed outside of the existing pavement = \$540,000 +/-*
- *If the new pipe is placed in the location of the current pipe, there would be additional pavement repair costs as mentioned above. NCDOT typically does not prefer a new utility line to be located within the pavement, so this would need to be coordinated further.*
- *RKA is working to obtain an estimate for design costs (typically 15% of cost). As noted above, the amount will be dependent on whether the repair is for the 6-inch or 12-inch pipe.*
- *As also noted, due to the current construction environment, these prices are subject to change.*
- *Betterment: Is the expectation that OWASA would pay the full cost of the betterment or the 20% local match for the betterment.*
- *An agreement with OWASA regarding cost sharing and other aspects of the project would be needed.*