



T.B.P.E. #F-8632

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Suite 250
Austin, TX 78752

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www.TRCSolutions.com

February 24, 2016

Mr. David Rabago, P.E., Utility Engineer
City of Seguin
P.O. Box 591
Seguin, Texas 78156-0591

**Re: Walnut Branch 18" Sewer Replacement
Bid Award Recommendation**

Dear Mr. Rabago:

Six (6) sealed bids were received at Seguin City Hall on February 2, 2016 at 2:30 P.M. for the above-referenced project. The bids were opened and read aloud at 3:00 P.M. The bids include a base proposal and additive alternatives for work related to this project. Per discussions with City staff it is recommended that both the base proposal and additive alternatives be awarded.

The base proposal includes installation of the sanitary sewer, cleaning of the abandoned sanitary sewer lines, and open cut of the sanitary sewer under the existing bike trail. The additive alternatives include grout filling the abandoned sanitary sewer lines, carbon filters for the sanitary sewer vents and boring the sanitary sewer line under the existing bike trail. The construction completion period is 240 days.

It is recommended that SJ Louis Construction of Texas, LTD. be awarded the construction project in the amount of \$2,040,935.77. TRC conducted reference checks of the recommended contractor. The contractor has a bid bond and will be required to furnish a Standard Form of Agreement, Performance Bond and Payment Bond to the City. A detailed bid tabulation is attached for your reference.

If you have any other questions or comments, please do not hesitate to contact this office.

Sincerely,

A handwritten signature in blue ink that reads "Craig Bell".

H. Craig Bell, P.E.
Austin CES Practice Leader

Enclosure

CITY OF SEGUIN
WALNUT BRANCH 18" SEWER REPLACEMENT
Bid Tabulation
February 2, 2016 - 2:30 PM



| | | |
|--|--|---|
| SJ Louis Construction of Texas, LTD 10515 Gulfdale Dr., Ste. 111 San Antonio, TX 78216 | Apeck Construction, LLC P.O. Box 640 Anacoco, LA 71403 | Harper Brothers Construction 11550 IH 10 West, Ste. 100 San Antonio, TX 78230 |
|--|--|---|

| Item | Item Description | Qty. | Unit | Unit Price | Total | Unit Price | Total | Unit Price | Total |
|----------------------------------|---|--------|------|-------------|-----------------------|-------------|-----------------------|-------------|-----------------------|
| BASE PROPOSAL | | | | | | | | | |
| P.1. | 6" Sewer Pipe (0'-6') | 46 | LF | \$36.00 | \$1,656.00 | \$64.76 | \$2,978.96 | \$106.00 | \$4,876.00 |
| P.2. | 6" Sewer Pipe (6'-8') | 60 | LF | \$36.00 | \$2,160.00 | \$70.60 | \$4,236.00 | \$85.00 | \$5,100.00 |
| P.3. | 8" Sewer Pipe (0'-6') | 30 | LF | \$38.00 | \$1,140.00 | \$67.43 | \$2,022.90 | \$141.00 | \$4,230.00 |
| P.4. | 8" Sewer Pipe (8'-10') | 32 | LF | \$38.00 | \$1,216.00 | \$86.89 | \$2,780.48 | \$133.00 | \$4,256.00 |
| P.5. | 10" Sewer Pipe (0'-6') | 66 | LF | \$41.00 | \$2,706.00 | \$92.71 | \$6,118.86 | \$85.00 | \$5,610.00 |
| P.6. | 18" Sewer Pipe (0'-6') | 125 | LF | \$59.00 | \$7,375.00 | \$109.78 | \$13,722.50 | \$116.00 | \$14,500.00 |
| P.7. | 18" Sewer Pipe (6'-8') | 100 | LF | \$59.00 | \$5,900.00 | \$109.78 | \$10,978.00 | \$133.00 | \$13,300.00 |
| P.8. | 24" Sewer Pipe (8'-10') | 32 | LF | \$127.00 | \$4,064.00 | \$141.02 | \$4,512.64 | \$211.00 | \$6,752.00 |
| P.9. | 30" Sewer Pipe (0'-6') | 470 | LF | \$187.00 | \$87,890.00 | \$133.31 | \$62,655.70 | \$159.00 | \$74,730.00 |
| P.10. | 30" Sewer Pipe (6'-8') | 1,567 | LF | \$187.00 | \$293,029.00 | \$123.81 | \$194,010.27 | \$175.00 | \$274,225.00 |
| P.11. | 30" Sewer Pipe (8'-10') | 3,468 | LF | \$187.00 | \$648,516.00 | \$146.24 | \$507,160.32 | \$180.00 | \$624,240.00 |
| P.12. | 30" Sewer Pipe (10'-12') | 157 | LF | \$187.00 | \$29,359.00 | \$144.33 | \$22,659.81 | \$200.00 | \$31,400.00 |
| P.13. | 30" Sewer Pipe (12'-14') | 170 | LF | \$187.00 | \$31,790.00 | \$154.06 | \$26,190.20 | \$210.00 | \$35,700.00 |
| P.14. | 30" Sewer Pipe (14'-16') | 123 | LF | \$187.00 | \$23,001.00 | \$156.65 | \$19,267.95 | \$215.00 | \$26,445.00 |
| P.15. | 30" Sewer Pipe (6'-8') with 10" removal | 76 | LF | \$187.00 | \$14,212.00 | \$161.84 | \$12,299.84 | \$203.00 | \$15,428.00 |
| P.16. | 30" Sewer Pipe (8'-10') with 10" removal | 163 | LF | \$187.00 | \$30,481.00 | \$168.32 | \$27,436.16 | \$177.00 | \$28,851.00 |
| P.17. | 30" Sewer Pipe (10'-12') with 10" removal | 185 | LF | \$187.00 | \$34,595.00 | \$174.81 | \$32,339.85 | \$169.00 | \$31,265.00 |
| P.18. | 30" Sewer Pipe (Bike Trail) | 103 | LF | \$250.00 | \$25,750.00 | \$256.52 | \$26,421.56 | \$305.00 | \$31,415.00 |
| P.19. | OSHA (sewer lines) under Bike Trail | 103 | LF | \$0.01 | \$1.03 | \$12.97 | \$1,335.91 | \$1.00 | \$103.00 |
| P.20. | 48" x 0.25" Steel Casing by Bore | 478 | LF | \$628.00 | \$300,184.00 | \$880.34 | \$420,802.52 | \$770.00 | \$368,060.00 |
| P.21. | 48" x 0.375" Steel Casing by Bore | 114 | LF | \$650.00 | \$74,100.00 | \$884.75 | \$100,861.50 | \$870.00 | \$99,180.00 |
| P.22. | Cast Iron Bolted Manhole Lid | 3 | EA | \$1,000.00 | \$3,000.00 | \$1,407.24 | \$4,221.72 | \$3,900.00 | \$11,700.00 |
| P.23. | Removal Manhole/Plug Inverts/Fill | 2 | EA | \$1,260.00 | \$2,520.00 | \$3,047.95 | \$6,095.90 | \$2,120.00 | \$4,240.00 |
| P.24. | Remove/Replace 5' Diameter Manholes | 3 | EA | \$4,300.00 | \$12,900.00 | \$6,172.25 | \$18,516.75 | \$8,030.00 | \$24,090.00 |
| P.25. | Remove/Replace 5' Diameter Drop Manholes | 2 | EA | \$4,680.00 | \$9,360.00 | \$8,807.81 | \$17,615.62 | \$10,380.00 | \$20,760.00 |
| P.26. | Construct 5' Diameter Manholes | 21 | EA | \$4,250.00 | \$89,250.00 | \$5,523.75 | \$115,998.75 | \$7,100.00 | \$149,100.00 |
| P.27. | Construct 6' Diameter Manholes | 1 | EA | \$5,160.00 | \$5,160.00 | \$8,613.36 | \$8,613.36 | \$9,100.00 | \$9,100.00 |
| P.28. | Construct 5' Diameter Manholes (DROP) | 5 | EA | \$4,290.00 | \$21,450.00 | \$9,363.16 | \$46,815.80 | \$9,100.00 | \$45,500.00 |
| P.29. | Construct 6' Diameter Manholes (DROP) | 2 | EA | \$6,780.00 | \$13,560.00 | \$15,781.06 | \$31,562.12 | \$9,200.00 | \$18,400.00 |
| P.30. | Extra Depth (5' Diameter) | 56 | VF | \$24.00 | \$1,344.00 | \$518.80 | \$29,052.80 | \$225.00 | \$12,600.00 |
| P.31. | Extra Depth (6' Diameter) | 4 | VF | \$33.00 | \$132.00 | \$814.23 | \$3,256.92 | \$257.00 | \$1,028.00 |
| P.32. | Extra Depth Drop (5' Diameter) | 23 | VF | \$24.00 | \$552.00 | \$537.40 | \$12,360.20 | \$227.00 | \$5,221.00 |
| P.33. | Extra Depth Drop (6' Diameter) | 6 | VF | \$33.00 | \$198.00 | \$885.71 | \$5,314.26 | \$257.00 | \$1,542.00 |
| P.34. | Vents on Manholes | 4 | EA | \$3,900.00 | \$15,600.00 | \$6,318.57 | \$25,274.28 | \$5,320.00 | \$21,280.00 |
| P.35. | Proposed Sewer Line to Existing Manhole | 7 | EA | \$920.00 | \$6,440.00 | \$1,239.93 | \$8,679.51 | \$4,500.00 | \$31,500.00 |
| P.36. | Existing Sewer Line to Proposed Manhole | 7 | EA | \$1,150.00 | \$8,050.00 | \$1,239.93 | \$8,679.51 | \$1,740.00 | \$12,180.00 |
| P.37. | OSHA (sewer lines) | 6,824 | LF | \$0.01 | \$68.24 | \$9.08 | \$61,961.92 | \$1.00 | \$6,824.00 |
| P.38. | Video Sanitary Sewer | 7,519 | LF | \$1.25 | \$9,398.75 | \$2.59 | \$19,474.21 | \$1.00 | \$7,519.00 |
| P.39. | Pavement Repair | 26 | LF | \$100.00 | \$2,600.00 | \$108.95 | \$2,832.70 | \$253.00 | \$6,578.00 |
| P.40. | Concrete Repair over Line Trench | 590 | LF | \$40.00 | \$23,600.00 | \$120.62 | \$71,165.80 | \$86.00 | \$50,740.00 |
| P.41. | Concrete Repair over Abandoned Manhole | 1 | EA | \$600.00 | \$600.00 | \$2,365.73 | \$2,365.73 | \$3,554.00 | \$3,554.00 |
| P.42. | Concrete Drainage Outfall | 1 | LS | \$5,000.00 | \$5,000.00 | \$12,969.97 | \$12,969.97 | \$6,320.00 | \$6,320.00 |
| P.43. | Tree Removal | 10 | EA | \$400.00 | \$4,000.00 | \$648.50 | \$6,485.00 | \$1,000.00 | \$10,000.00 |
| P.44. | Seeding | 12,666 | SY | \$0.30 | \$3,799.80 | \$1.30 | \$16,465.80 | \$0.40 | \$5,066.40 |
| P.45. | Cleaning Lines | 8,617 | LF | \$3.00 | \$25,851.00 | \$3.43 | \$29,556.31 | \$1.39 | \$11,977.63 |
| P.46. | Complete Topographical | 1 | LS | \$10,000.00 | \$10,000.00 | \$9,727.48 | \$9,727.48 | \$10,000.00 | \$10,000.00 |
| P.47. | Storm Water Pollution Prevention Plan | 1 | LS | \$30,000.00 | \$30,000.00 | \$22,655.53 | \$22,655.53 | \$56,680.00 | \$56,680.00 |
| TOTAL BASE PROPOSAL | | | | | \$1,923,558.82 | | \$2,098,509.88 | | \$2,243,166.03 |
| ADDITIVE ALTERNATIVES | | | | | | | | | |
| AA.1. | 2-sack Sand-cement Grout (6") | 226 | LF | \$2.00 | \$452.00 | \$3.63 | \$820.38 | \$27.00 | \$6,102.00 |
| AA.2. | 2-sack Sand-cement Grout (8") | 78 | LF | \$3.00 | \$234.00 | \$6.88 | \$536.64 | \$29.00 | \$2,262.00 |
| AA.3. | 2-sack Sand-cement Grout (10") | 1,523 | LF | \$3.50 | \$5,330.50 | \$5.96 | \$9,077.08 | \$28.50 | \$43,405.50 |
| AA.4. | 2-sack Sand-cement Grout (15") | 563 | LF | \$7.00 | \$3,941.00 | \$10.14 | \$5,708.82 | \$28.00 | \$15,764.00 |
| AA.5. | 2-sack Sand-cement Grout (18") | 5,886 | LF | \$9.75 | \$57,388.50 | \$11.67 | \$68,689.62 | \$30.00 | \$176,580.00 |
| AA.6. | 2-sack Sand-cement Grout (24") | 469 | LF | \$17.55 | \$8,230.95 | \$18.13 | \$8,502.97 | \$44.00 | \$20,636.00 |
| AA.7. | Carbon Filters | 4 | EA | \$1,600.00 | \$6,400.00 | \$2,191.93 | \$8,767.72 | \$2,500.00 | \$10,000.00 |
| AA.8. | Slip Lining | 50 | LF | \$90.00 | \$4,500.00 | \$339.40 | \$16,970.00 | \$200.00 | \$10,000.00 |
| AA.9. | 30" Sewer Pipe by Bore (no casing) | 103 | LF | \$300.00 | \$30,900.00 | \$330.45 | \$34,036.35 | \$400.00 | \$41,200.00 |
| TOTAL ADDITIVE ALTERNATES | | | | | \$117,376.95 | | \$153,109.58 | | \$325,949.50 |
| TOTAL PROJECT | | | | | \$2,040,935.77 | | \$2,251,619.46 | | \$2,569,115.53 |

CITY OF SEGUIN
WALNUT BRANCH 18" SEWER REPLACEMENT
Bid Tabulation
February 2, 2016 - 2:30 PM



| | | |
|---|---|---|
| Skyblue Utilities, Inc. P.O. Box 1001 Kingsland, TX 78639 | Qro Mex Construction Co., Inc. 2801 Praine Creek Road Granite Shoals, TX 7865 | Pronto Sandblasting & Oil Field Services 9456 South Presa San Antonio, TX 78223 |
|---|---|---|

| Item | Item Description | Qty. | Unit | Unit Price | Total | Unit Price | Total | Unit Price | Total |
|----------------------------------|---|--------|------|-------------|-----------------------|-------------|-----------------------|-------------|-----------------------|
| BASE PROPOSAL | | | | | | | | | |
| P.1. | 6" Sewer Pipe (0'-6') | 46 | LF | \$44.95 | \$2,067.70 | \$60.00 | \$2,760.00 | \$70.00 | \$3,220.00 |
| P.2. | 6" Sewer Pipe (6'-8') | 60 | LF | \$47.25 | \$2,835.00 | \$80.00 | \$4,800.00 | \$80.00 | \$4,800.00 |
| P.3. | 8" Sewer Pipe (0'-6') | 30 | LF | \$49.85 | \$1,495.50 | \$90.00 | \$2,700.00 | \$80.00 | \$2,400.00 |
| P.4. | 8" Sewer Pipe (8'-10') | 32 | LF | \$52.15 | \$1,668.80 | \$95.00 | \$3,040.00 | \$90.00 | \$2,880.00 |
| P.5. | 10" Sewer Pipe (0'-6') | 66 | LF | \$55.54 | \$3,665.64 | \$99.00 | \$6,534.00 | \$90.00 | \$5,940.00 |
| P.6. | 18" Sewer Pipe (0'-6') | 125 | LF | \$101.34 | \$12,667.50 | \$180.00 | \$22,500.00 | \$140.00 | \$17,500.00 |
| P.7. | 18" Sewer Pipe (6'-8') | 100 | LF | \$107.09 | \$10,709.00 | \$190.00 | \$19,000.00 | \$180.00 | \$18,000.00 |
| P.8. | 24" Sewer Pipe (8'-10') | 32 | LF | \$162.09 | \$5,186.88 | \$260.00 | \$8,320.00 | \$250.00 | \$8,000.00 |
| P.9. | 30" Sewer Pipe (0'-6') | 470 | LF | \$201.63 | \$94,766.10 | \$260.00 | \$122,200.00 | \$400.00 | \$188,000.00 |
| P.10. | 30" Sewer Pipe (6'-8') | 1,567 | LF | \$219.00 | \$343,173.00 | \$275.00 | \$430,925.00 | \$440.00 | \$689,480.00 |
| P.11. | 30" Sewer Pipe (8'-10') | 3,468 | LF | \$221.80 | \$769,202.40 | \$265.00 | \$919,020.00 | \$480.00 | \$1,664,640.00 |
| P.12. | 30" Sewer Pipe (10'-12') | 157 | LF | \$161.11 | \$25,294.27 | \$270.00 | \$42,390.00 | \$520.00 | \$81,640.00 |
| P.13. | 30" Sewer Pipe (12'-14') | 170 | LF | \$184.11 | \$31,298.70 | \$272.00 | \$46,240.00 | \$600.00 | \$102,000.00 |
| P.14. | 30" Sewer Pipe (14'-16') | 123 | LF | \$201.36 | \$24,767.28 | \$278.00 | \$34,194.00 | \$650.00 | \$79,950.00 |
| P.15. | 30" Sewer Pipe (6'-8') with 10" removal | 76 | LF | \$210.76 | \$16,017.76 | \$260.00 | \$19,760.00 | \$420.00 | \$31,920.00 |
| P.16. | 30" Sewer Pipe (8'-10') with 10" removal | 163 | LF | \$222.26 | \$36,228.38 | \$265.00 | \$43,195.00 | \$460.00 | \$74,980.00 |
| P.17. | 30" Sewer Pipe (10'-12') with 10" removal | 185 | LF | \$233.76 | \$43,245.60 | \$280.00 | \$51,800.00 | \$540.00 | \$99,900.00 |
| P.18. | 30" Sewer Pipe (Bike Trail) | 103 | LF | \$362.36 | \$37,323.08 | \$720.00 | \$74,160.00 | \$1,000.00 | \$103,000.00 |
| P.19. | OSHA (sewer lines) under Bike Trail | 103 | LF | \$5.75 | \$592.25 | \$110.00 | \$11,330.00 | \$10.00 | \$1,030.00 |
| P.20. | 48" x 0.25" Steel Casing by Bore | 478 | LF | \$870.32 | \$416,012.96 | \$780.00 | \$372,840.00 | \$700.00 | \$334,600.00 |
| P.21. | 48" x 0.375" Steel Casing by Bore | 114 | LF | \$895.98 | \$102,141.72 | \$780.00 | \$88,920.00 | \$800.00 | \$91,200.00 |
| P.22. | Cast Iron Bolted Manhole Lid | 3 | EA | \$994.75 | \$2,984.25 | \$1,500.00 | \$4,500.00 | \$2,000.00 | \$6,000.00 |
| P.23. | Removal Manhole/Plug Inverts/Fill | 2 | EA | \$2,530.00 | \$5,060.00 | \$3,000.00 | \$6,000.00 | \$2,000.00 | \$4,000.00 |
| P.24. | Remove/Replace 5' Diameter Manholes | 3 | EA | \$6,691.85 | \$20,075.55 | \$8,500.00 | \$25,500.00 | \$9,000.00 | \$27,000.00 |
| P.25. | Remove/Replace 5' Diameter Drop Manholes | 2 | EA | \$7,379.55 | \$14,759.10 | \$9,500.00 | \$19,000.00 | \$10,000.00 | \$20,000.00 |
| P.26. | Construct 5' Diameter Manholes | 21 | EA | \$4,912.48 | \$103,162.08 | \$8,000.00 | \$168,000.00 | \$8,000.00 | \$168,000.00 |
| P.27. | Construct 6' Diameter Manholes | 1 | EA | \$6,573.90 | \$6,573.90 | \$10,500.00 | \$10,500.00 | \$9,000.00 | \$9,000.00 |
| P.28. | Construct 5' Diameter Manholes (DROP) | 5 | EA | \$7,205.48 | \$36,027.40 | \$9,500.00 | \$47,500.00 | \$9,000.00 | \$45,000.00 |
| P.29. | Construct 6' Diameter Manholes (DROP) | 2 | EA | \$16,624.90 | \$33,249.80 | \$12,000.00 | \$24,000.00 | \$10,000.00 | \$20,000.00 |
| P.30. | Extra Depth (5' Diameter) | 56 | VF | \$299.45 | \$16,769.20 | \$600.00 | \$33,600.00 | \$1,000.00 | \$56,000.00 |
| P.31. | Extra Depth (6' Diameter) | 4 | VF | \$383.40 | \$1,533.60 | \$350.00 | \$1,400.00 | \$1,400.00 | \$5,600.00 |
| P.32. | Extra Depth Drop (5' Diameter) | 23 | VF | \$310.95 | \$7,151.85 | \$500.00 | \$11,500.00 | \$1,200.00 | \$27,600.00 |
| P.33. | Extra Depth Drop (6' Diameter) | 6 | VF | \$400.65 | \$2,403.90 | \$650.00 | \$3,900.00 | \$1,500.00 | \$9,000.00 |
| P.34. | Vents on Manholes | 4 | EA | \$4,922.00 | \$19,688.00 | \$5,500.00 | \$22,000.00 | \$500.00 | \$2,000.00 |
| P.35. | Proposed Sewer Line to Existing Manhole | 7 | EA | \$4,600.00 | \$32,200.00 | \$4,500.00 | \$31,500.00 | \$3,000.00 | \$21,000.00 |
| P.36. | Existing Sewer Line to Proposed Manhole | 7 | EA | \$2,300.00 | \$16,100.00 | \$4,500.00 | \$31,500.00 | \$3,000.00 | \$21,000.00 |
| P.37. | OSHA (sewer lines) | 6,824 | LF | \$1.15 | \$7,847.60 | \$6.00 | \$40,944.00 | \$10.00 | \$68,240.00 |
| P.38. | Video Sanitary Sewer | 7,519 | LF | \$1.44 | \$10,827.36 | \$7.00 | \$52,633.00 | \$20.00 | \$150,380.00 |
| P.39. | Pavement Repair | 26 | LF | \$40.25 | \$1,046.50 | \$45.00 | \$1,170.00 | \$100.00 | \$2,600.00 |
| P.40. | Concrete Repair over Line Trench | 590 | LF | \$48.30 | \$28,497.00 | \$35.00 | \$20,650.00 | \$100.00 | \$59,000.00 |
| P.41. | Concrete Repair over Abandoned Manhole | 1 | EA | \$402.50 | \$402.50 | \$3,500.00 | \$3,500.00 | \$2,000.00 | \$2,000.00 |
| P.42. | Concrete Drainage Outfall | 1 | LS | \$11,500.00 | \$11,500.00 | \$11,000.00 | \$11,000.00 | \$10,000.00 | \$10,000.00 |
| P.43. | Tree Removal | 10 | EA | \$345.00 | \$3,450.00 | \$4,000.00 | \$40,000.00 | \$1,000.00 | \$10,000.00 |
| P.44. | Seeding | 12,666 | SY | \$1.09 | \$13,805.94 | \$3.00 | \$37,998.00 | \$3.00 | \$37,998.00 |
| P.45. | Cleaning Lines | 8,617 | LF | \$1.65 | \$14,218.05 | \$10.00 | \$86,170.00 | \$20.00 | \$172,340.00 |
| P.46. | Complete Topographical | 1 | LS | \$6,900.00 | \$6,900.00 | \$50,000.00 | \$50,000.00 | \$50,000.00 | \$50,000.00 |
| P.47. | Storm Water Pollution Prevention Plan | 1 | LS | \$23,000.00 | \$23,000.00 | \$89,000.00 | \$89,000.00 | \$70,000.00 | \$70,000.00 |
| TOTAL BASE PROPOSAL | | | | | \$2,419,593.10 | | \$3,200,093.00 | | \$4,678,838.00 |
| ADDITIVE ALTERNATIVES | | | | | | | | | |
| AA.1. | 2-sack Sand-cement Grout (6") | 226 | LF | \$2.88 | \$650.88 | \$25.00 | \$5,650.00 | \$20.00 | \$4,520.00 |
| AA.2. | 2-sack Sand-cement Grout (8") | 78 | LF | \$3.45 | \$269.10 | \$26.00 | \$2,028.00 | \$25.00 | \$1,950.00 |
| AA.3. | 2-sack Sand-cement Grout (10") | 1,523 | LF | \$4.31 | \$6,564.13 | \$26.00 | \$39,598.00 | \$30.00 | \$45,690.00 |
| AA.4. | 2-sack Sand-cement Grout (15") | 563 | LF | \$8.17 | \$4,599.71 | \$38.00 | \$21,394.00 | \$35.00 | \$19,705.00 |
| AA.5. | 2-sack Sand-cement Grout (18") | 5,886 | LF | \$10.18 | \$59,919.48 | \$30.00 | \$176,580.00 | \$40.00 | \$235,440.00 |
| AA.6. | 2-sack Sand-cement Grout (24") | 469 | LF | \$17.25 | \$8,090.25 | \$45.00 | \$21,105.00 | \$50.00 | \$23,450.00 |
| AA.7. | Carbon Filters | 4 | EA | \$2,113.70 | \$8,454.80 | \$7,500.00 | \$30,000.00 | \$15,000.00 | \$60,000.00 |
| AA.8. | Slip Lining | 50 | LF | \$287.50 | \$14,375.00 | \$500.00 | \$25,000.00 | \$500.00 | \$25,000.00 |
| AA.9. | 30" Sewer Pipe by Bore (no casing) | 103 | LF | \$358.60 | \$36,935.80 | \$720.00 | \$74,160.00 | \$1,500.00 | \$154,500.00 |
| TOTAL ADDITIVE ALTERNATES | | | | | \$139,859.15 | | \$395,515.00 | | \$570,255.00 |
| TOTAL PROJECT | | | | | \$2,559,452.25 | | \$3,595,608.00 | | \$5,249,093.00 |