RESOLUTION NO. _____

A RESOLUTION AUTHORIZING THE ADMINISTRATOR OF THE DEPARTMENT OF PUBLIC WORKS TO AWARD CONTRACT NO. W-10-011-201, EAST BRAINERD ROAD SEWER LINE REPLACEMENT (PHASE I), TO BROWN BROTHERS, INC., FOR A CONTRACT AMOUNT OF FIVE HUNDRED FIFTY-EIGHT THOUSAND SEVEN HUNDRED NINETY-FIVE AND 42/100 DOLLARS ($558,795.42), WITH A CONTINGENCY AMOUNT OF SIXTY THOUSAND DOLLARS ($60,000.00), FOR AN AMOUNT NOT TO EXCEED SIX HUNDRED EIGHTEEN THOUSAND SEVEN HUNDRED NINETY-FIVE AND 42/100 DOLLARS ($618,795.42).

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BE IT RESOLVED BY THE CITY COUNCIL OF THE CITY OF CHATTANOOGA, TENNESSEE, that the Administrator of the Department of Public Works be and is hereby authorized to award Contract No. W-10-011-201, East Brainerd Road Sewer Line Replacement (Phase 1), to Brown Brothers, Inc., for a contract amount of $558,795.42, with a contingency amount of $60,000.00, for an amount not to exceed $618,795.42.

ADOPTED: _____, 2013

/mms

# City of Chattanooga

## Resolution/Ordinance Request Form

**Date Prepared: September 19, 2013**

**Preparer: Dennis Malone** **Department: Public Works**

**Brief Description of Purpose for Resolution/Ordinance:** **Res./Ord. #** _____ **Council District #** 4

A City Council resolution is requested to award Contract No. W-10-011-201, East Brainerd Road Sewer Line Replacement (Phase 1) to Brown Brothers, Inc., for a contract amount of $558,795.42, with a contingency amount of $60,000.00, for a not-to-exceed amount of $618,795.42.

| | | | |
|---|---|---|---|
| Name of Vendor/Contractor/Grant, etc. | **Brown Brothers, Inc.** | New Contract/Project? (Yes or No) | No |
| Total project cost $ | 618,795.42 | Funds Budgeted? (YES or NO) | Yes |
| Total City of Chattanooga Portion $ | 367,542.49 | Provide Fund | **6011** |
| City Amount Funded $ | 618,795.42 | Provide Cost Center | **K40152** |
| New City Funding Required $ | 0 | Proposed Funding Source if not budgeted | TDOT |
| City's Match Percentage % | | Grant Period (if applicable) | |

**List all other funding sources and amount for each contributor.**

| Amount(s) | Grantor(s) |
|---|---|
| $251,252.93 | TDOT Utility Contract No. 7937 - Resolution No. 27532 |
| | |
| | |

**Agency Grant Number**

**CFDA Number if known**

**Other comments: (Include contingency amount, contractor, and other information useful in preparing resolution)**

**Funding per ISS**

Approved by: _____

Reviewed by: FINANCE OFFICE

DESIGNATED OFFICIAL/ADMINISTRATOR

Please submit completed form to @budget, City Attorney and City Finance Officer

Revised: 1/26/09

CTI Engineers, Inc.
1122 Riverfront Parkway
Chattanooga, TN 37402
Phone 423.267.7613
Fax 423.267.0603
www.ctiengr.com

September 18, 2013

Mr. Dennis Malone, Assistant City Engineer
Development Resource Center
1250 Market Street, 2nd Floor
Chattanooga TN 37402

Subject: Recommendation for Award
E. Brainerd Road Sewer Relocation
Chattanooga Contract No. W-010-011
CTI Project No. C11020

Dear Dennis:

As you are aware, bids for the subject project were opened at 2 p.m. on Thursday, September 12, 2013. A total of three bids were received; a fourth prospective bidder was late to the bid opening and withheld his bid. Enclosed for your review is a copy of the Bid Tabulation.

Following is a summary of results:

| Bidder | Schedule I Base Bid (Lines A and B) | Schedule II Base Bid (Lines C and D) | Total Bid |
|---|---|---|---|
| Brown Brothers, Inc.<br>P.O. Box 91313<br>Chattanooga, TN 37412 | $367,978.87 | $190,816.55 | $558,795.42 |
| Mayse Construction Company<br>4659 B Shallowford Road<br>Chattanooga, TN 37411 | $442,481.50 | $237,827.55 | $680,309.05 |
| Norris Brothers Excavating, Inc.<br>1007 Rodger Road<br>Crossville, TN 38572 | $422,176.00 | $284,553.00 | $706,729.00 |

Brown Brothers Construction was the apparent low bidder with a bid of $558,781.34. This amount is below our estimate of $597,000. Brown Brothers and Norris Brothers both had mathematical errors on their bid forms, which are noted in the bid tabulation.

While Brown Brothers is an old construction company in the Chattanooga area, it has not been active in sewer construction in the public sector during the last few years. As a result, we took the time to evaluate the experience of personnel who will be assigned to this project and to check references. We think both are acceptable.

As a result of our evaluation, we believe that Brown Brothers is the lowest responsive, responsible bidder for the East Brainerd Sewer Relocation.

If this is acceptable, please advise and we will submit a Notice of Award for signature and we will prepare contracts for execution. By copy of this letter, we are advising TDOT of our recommendation.

Sincerely,

Ron

Elbert Ron Key, P.E.
Senior Project Manager

cc: Mr. Ronald Simmons (w/enclosure)
Mr. Steve Langford (w/enclosure)

**EAST BRAINERD ROAD SEWER LINE REPLACEMENT (PHASE I)**
**PROJECT NO. W-010-011**
**CITY OF CHATTANOOGA**

| **Bid Opening:**<br>Time: 2:00 PM<br>Date: September 12, 2013<br>Place: City Hall<br>Chattanooga, TN 37402 | **Bidder:**<br><br>**Bid Bond:** | **Brown Bros., Inc.**<br>P.O. Box 91313<br>Chattanooga, TN 37412<br><br>The Hartford<br>Hartford, CT | **Mayse Construction Co.**<br>4659-B Shallowford Road<br>Chattanooga, TN 37411<br><br>Travelers Casualty and Surety Co. of America<br>Hartford, CT | **Norris Bros. Excavating, Inc.**<br>1007 Rodgers Road<br>Crossville, TN 38572<br><br>Westfield Insurance Co.<br>Westfield Center, OH |
|---|---|---|---|---|
| **BID SUMMARY** | | | | |
| **TOTAL SCHEDULE I - BASE BID (LINES A AND B: TDOT NON-REIMBURSABLE)** | | **$367,978.87** | **$442,481.50** | **$422,176.00** |
| **TOTAL SCHEDULE II - BASE BID (LINES C AND D: TDOT REIMBURSABLE)** | | **$190,816.55** | **$237,827.55** | **$284,553.00** |
| **TOTAL BASE BID: SCHEDULE I + SCHEDULE II** | | **$558,795.42** | **$680,309.05** | **$706,729.00** |

I hereby certify that the following is a true and accurate tabulation of bids received at 2:00 p.m. (Eastern) on Thursday, September 12, 2013, at Chattanooga City Hall, Purchasing Department, Suite G13, 101 E. 11th Street, Chattanooga, Tennessee 37402, for the construction of the East Brainerd Road Sewer Line Replacement (Phase I), Chattanooga Project No. W-010-011, for the City of Chattanooga, Tennessee

By_____
Elbert R. Key, P.E. Project Manager
Tennessee License No. 17779
CTI Engineers, Inc.
1122 Riverfront Parkway
Chattanooga, TN 37402

| BID TABULATION | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | | | Brown Bros., Inc. | | Mayse Construction Co. | | Norris Bros. Excavating, Inc. | |
| Item No. | Description | Unit | Est. No. of Units | Unit Price | Item Total | Unit Price | Item Total | Unit Price | Item Total |
| SCHEDULE I - BASE BID (LINES A AND B: TDOT NON-REIMBURSABLE) | | | | | | | | | |
| **01** | **Mobilization** | | | | | | | | |
| 01a | Mobilization | EA | 1 | $ 12,000.00 | $ 12,000.00 | $ 9,084.05 | $ 9,084.05 | $ 20,000.00 | $ 20,000.00 |
| 01b | Temporary Mobilization for Manhole Adjustments | EA | 2 | 500.00 | 1,000.00 | 500.00 | 1,000.00 | 500.00 | 1,000.00 |
| **01 7839** | **Project Record Documents** | | | | | | | | |
| 01 7839a | Project Record Data of Manholes of Each Project in Excel® Format on Provided Floppy Disc, Certified As-Builts on P&P Sheets Including Digital CADD File in AutoCAD® format | LS | 1 | 1,100.00 | 1,100.00 | 1,340.10 | 1,340.10 | 10,000.00 | 10,000.00 |
| **03 3000** | **Cast-in-place Concrete**, Complete in Place as Specified or as shown on the Drawings | | | | | | | | |
| 03 3000a | Class A Concrete | CY | 2 | 362.00 | 724.00 | 385.30 | 770.60 | 500.00 | 1,000.00 |
| 03 3000b | Class B Concrete | CY | 5 | 129.00 | 645.00 | 241.00 | 1,205.00 | 100.00 | 500.00 |
| **31 1100** | **Tree Removal** for Trees Greater than 6-Inch in Diameter (Allowance) | LS | 1 | 5,000.00 | 5,000.00 | 5,000.00 | 5,000.00 | 5,000.00 | 5,000.00 |
| **31 1200** | **Video Recording of Easement Areas** | LS | 1 | 1,250.00 | 1,250.00 | 357.35 | 357.35 | 1,000.00 | 1,000.00 |
| **31 2000** | **Earthwork**, Complete in Place as Specified and/or shown on the Drawings | | | | | | | | |
| **31 2000a** | **Crushed Rock Backfill**, Complete in Place as Specified and/or Shown on Drawings in Trench for Pipe Sewers in Streets, Driveways, and Parking Lots from Top of Bedding to Finished Grade, for Pipe Depth Indicated. | | | | | | | | |
| 31 2000a-1 | Crushed Rock Backfill for 2-inch-diameter Service Line (Regardless of Depth) Beyond Main Trench | LF | 50 | 6.20 | 310.00 | 18.55 | 927.50 | 22.00 | 1,100.00 |
| **31 2000b-15** | **Backfill for 15-Inch Diameter Pipe** | | | | | | | | |
| 31 2000b-15.1 | 10.1' to 12.0' | LF Trench | 5 | 50.28 | 251.40 | 102.80 | 514.00 | 85.00 | 425.00 |
| 31 2000b-15.2 | 12.1' to 14.0' | LF Trench | 10 | 59.50 | 595.00 | 122.40 | 1,224.00 | 100.00 | 1,000.00 |
| **31 2000b-12** | **Backfill for 12-Inch Diameter Pipe** | | | | | | | | |
| 31 2000b-12.1 | 0.0' to 6.0' Deep | LF Trench | 10 | 31.68 | 316.80 | 55.90 | 559.00 | 100.00 | 1,000.00 |
| 31 2000b-12.2 | 6.1' to 8.0' Deep | LF Trench | 5 | 44.52 | 222.60 | 73.15 | 365.75 | 100.00 | 500.00 |
| **31 2000b-8** | **Crushed Rock Backfill for 8-Inch Diameter Pipe** | | | | | | | | |
| 31 2000b-8.1 | 0.0' to 6.0' Deep | LF Trench | 10 | 31.64 | 316.40 | 49.45 | 494.50 | 100.00 | 1,000.00 |
| 31 2000b-8.2 | 6.1' to 8.0' Deep | LF Trench | 210 | 39.40 | 8,274.00 | 64.15 | 13,471.50 | 85.00 | 17,850.00 |

| | | | | Brown Bros., Inc. | | Mayse Construction Co. | | Norris Bros. Excavating, Inc. | |
|---|---|---|---|---|---|---|---|---|---|
| Item No. | Description | Unit | Est. No. of Units | Unit Price | Item Total | Unit Price | Item Total | Unit Price | Item Total |
| 31 2000b-8.3 | 8.1' to 10.0' Deep | LF Trench | 65 | $ 50.80 | $ 3,302.00 | $ 78.95 | $ 5,131.75 | $ 85.00 | $ 5,525.00 |
| 31 2000b-8.4 | 10.1' to 12.0' | LF Trench | 5 | 61.40 | 307.00 | 93.95 | 469.75 | 100.00 | 500.00 |
| **31 2000c** | **Crushed Rock Bedding Material** (In Excess of Standard Bedding) | CY | 50 | 28.00 | 1,400.00 | 34.15 | 1,707.50 | 30.00 | 1,500.00 |
| **31 2000d** | **Street Sawcut** Over 5 Inches Thick | LF | 300 | 3.00 | 900.00 | 4.15 | 1,245.00 | 9.00 | 2,700.00 |
| **31 2000e** | **Trench Rock Excavation** | CY | 300 | 177.00 | 53,100.00 | 115.00 | 34,500.00 | 30.00 | 9,000.00 |
| **31 2500** | **Slope Protection and Erosion Control.** All costs are to be Complete-in-place as Shown on Drawings or as Directed by the Owner. | | | | | | | | |
| 31 2500a | Temporary Silt Fence | LF | 700 | 2.25 | 1,575.00 | 4.10 | 2,870.00 | 3.00 | 2,100.00 |
| 31 2500b | Grate Inlet Protection | EA | 3 | 100.00 | 300.00 | 142.80 | 428.40 | 600.00 | 1,800.00 |
| 31 2500c | Temporary Construction Entrance | EA | 4 | 750.00 | 3,000.00 | 1,230.90 | 4,923.60 | 1,200.00 | 4,800.00 |
| **31 3700** | **Riprap** | CY | 25 | 36.00 | 900.00 | 43.95 | 1,098.75 | 33.00 | 825.00 |
| **32 1000** | **New and Replacement Paving and Sidewalks** | | | | | | | | |
| 32 1000a | Replace Concrete or Asphalt Curbs | LF | 80 | 6.75 | 540.00 | 48.65 | 3,892.00 | 22.00 | 1,760.00 |
| 32 1000b | Type B Modified Asphalt Binder (7 Feet Wide by 2.5 Inches Thick) | TN | 45 | 209.00 | 9,405.00 | 253.80 | 11,421.00 | 147.00 | 6,615.00 |
| 32 1000c | Asphalt Topping (7 Feet Wide by 1.5 Inches Thick) | TN | 28 | 213.00 | 5,964.00 | 328.50 | 9,198.00 | 147.00 | 4,116.00 |
| 32 1000d | Milling Publix Parking Lot 7-Feet Wide | LF | 280 | 18.51 | 5,182.80 | 47.95 | 13,426.00 | 30.00 | 8,400.00 |
| **32 1200** | **Flowable Controlled Low Strength Material (CLSM) for Abandoned Underground Pipe or for Cuts Made in Streets** | | | | | | | | |
| 32 1200a | CLSM in Road Cut at Manholes (4 Feet Deep by 5 Feet around Manhole) | CY | 150 | 91.94 | 13,791.00 | 114.55 | 17,182.50 | 110.00 | 16,500.00 |
| 32 1200b | CLSM in Road Cut Above Pipe (4 Feet Deep or to 1 Foot Above Pipe) | CY | 150 | 91.94 | 13,791.00 | 114.55 | 17,182.50 | 110.00 | 16,500.00 |
| 32 1200c | CLSM in Underground Pipe | CY | 40 | 121.94 | 4,877.60 | 112.75 | 4,510.00 | 100.00 | 4,000.00 |
| 32 1200d | CLSM as Trench Check at Creek Crossings | CY | 130 | 106.00 | 13,780.00 | 112.75 | 14,657.50 | 110.00 | 14,300.00 |
| **32 9219** | **Seeding** | | | | | | | | |
| 32 9219a | Seed and Straw | SF | 21,000 | 0.07 | 1,470.00 | 0.05 | 1,050.00 | 0.10 | 2,100.00 |
| 32 9219b | Restore Landscaped Area | LS | 1 | 800.00 | 800.00 | 8,083.25 | 8,083.25 | 3,000.00 | 3,000.00 |
| **33 0523** | **Utility Crossings of Highway with 30-Inch Steel Casing Including 15-Inch Carrier Pipe** | LF | 120 | 801.60 | 96,192.00 [1] | 996.95 | 119,634.00 | 580.00 | 69,600.00 |

| | | | | Brown Bros., Inc. | | Mayse Construction Co. | | Norris Bros. Excavating, Inc. | |
|---|---|---|---|---|---|---|---|---|---|
| Item No. | Description | Unit | Est. No. of Units | Unit Price | Item Total | Unit Price | Item Total | Unit Price | Item Total |
| **33 3100** | **Polyvinyl Chloride (PVC) Sewers and Service Lines with Bell and Spigot O-ring Joints Installed in Trench,** Including Excavation, Bedding, Non-Stone Earth Backfill as Required, Etc., Complete in Place as Specified | | | | | | | | |
| **33 3100a-15** | **15-Inch PVC Pipe** | | | | | | | | |
| 33 3100a-15.01 | 0.0' to 6.0' Deep | LF | 5 | $ 42.14 | $ 210.70 | $ 46.30 | $ 231.50 | $ 100.00 | $ 500.00 |
| 33 3100a.15.02 | 6.1' to 8.0' Deep | LF | 15 | 44.71 | 670.65 | 48.95 | 734.25 | 100.00 | 1,500.00 |
| 33 3100a-15.03 | 8.1' to 10.0' Deep | LF | 285 | 47.92 | 13,657.20 [1] | 51.55 | 14,691.75 | 75.00 | 21,375.00 |
| 33 3100a-15.04 | 10.1' to 12.0' Deep | LF | 310 | 52.05 | 16,135.50 [1] | 55.70 | 17,267.00 | 75.00 | 23,250.00 [6] |
| 33 3100a-15.05 | 12.1' to 14.0' Deep | LF | 125 | 57.56 | 7,195.00 | 64.20 | 8,025.00 | 75.00 | 9,375.00 |
| 33 3100a-15.06 | 14.1' to 16.0' Deep | LF | 50 | 65.27 | 3,263.50 | 70.05 | 3,502.50 | 200.00 | 10,000.00 |
| **33 3100a-12** | **12-Inch PVC Pipe** | | | | | | | | |
| 33 3100a-12.01 | 0.0' to 6.0' Deep | LF | 15 | 34.73 | 520.95 [1] | 45.50 | 682.50 | 80.00 | 1,200.00 |
| 33 3100a.12.02 | 6.1' to 8.0' Deep | LF | 40 | 37.05 | 1,482.00 [1] | 49.00 | 1,960.00 | 85.00 | 3,400.00 |
| 33 3100a-12.03 | 8.1' to 10.0' Deep | LF | 20 | 39.91 | 798.20 [1] | 52.50 | 1,050.00 | 95.00 | 1,900.00 |
| 33 3100a-12.04 | 10.1' to 12.0' Deep | LF | 5 | 43.54 | 217.70 | 57.75 | 288.75 | 100.00 | 500.00 |
| **33 3100a-8** | **8-Inch PVC Pipe** | | | | | | | | |
| 33 3100a.8.01 | 6.1' to 8.0' Deep | LF | 270 | 30.65 | 8,275.50 | 34.15 | 9,220.50 | 49.00 | 13,230.00 |
| 33 3100a-8.02 | 8.1' to 10.0' Deep | LF | 90 | 33.22 | 2,989.80 | 36.80 | 3,312.00 | 55.00 | 4,950.00 |
| 33 3100a-8.03 | 10.1' to 12.0' Deep | LF | 55 | 36.43 | 2,003.65 [1] | 40.80 | 2,244.00 | 62.00 | 3,410.00 |
| **33 3100b** | **PVC Pipe Sewer and Service Lines** | | | | | | | | |
| 33 3100a-6 | 6-Inch Service Line | LF | 7 | 16.85 | 117.95 | 44.75 | 313.25 | 27.00 | 189.00 |
| 33 3100a-4 | 4-Inch Service Line | LF | 11 | 18.00 | 198.00 | 41.60 | 457.60 | 26.00 | 286.00 |
| 33 3100a-2 | 2-Inch Schedule 40 Low Pressure Service Line | LF | 100 | 11.10 | 1,110.00 | 14.20 | 1,420.00 | 10.00 | 1,000.00 |
| **33 3100c** | **PVC Pipe Risers,** Complete in Place | | | | | | | | |
| 33 3100d-6 | 6-Inch Riser | EA | 1 | 200.00 | 200.00 | 52.95 | 52.95 | 300.00 | 300.00 |
| 33 3100d-4 | 4-Inch Riser | EA | 1 | 175.00 | 175.00 | 38.35 | 38.35 | 300.00 | 300.00 |
| **33 3100d** | **PVC Pipe Tees,** Complete in Place as Specified and/or Shown on Drawings | | | | | | | | |
| 33 3100d-15T6 | 15-inch x 6-inch Pipe Tee | EA | 1 | 350.06 | 350.06 | 345.35 | 345.35 | 300.00 | 300.00 |
| 33 3100d-15T4 | 15-inch x 4-inch Pipe Tee | EA | 1 | 341.32 | 341.32 | 308.35 | 308.35 | 300.00 | 300.00 |
| **33 3100e** | **PVC Pipe Deflection Test** | | | | | | | | |
| 33 3100e-15 | 15-inch PVC Pipe Deflection Test | LF | 910 | 1.00 | 910.00 | 0.60 | 546.00 | 2.00 | 1,820.00 |
| 33 3100e-12 | 12-Inch PVC Pipe Deflection Test | LF | 80 | 1.00 | 80.00 | 0.60 | 48.00 | 2.00 | 160.00 |
| 33 3100e-8 | 8-inch PVC Pipe Deflection Test | LF | 415 | 1.00 | 415.00 | 0.45 | 186.75 | 2.00 | 830.00 |

| | | | | Brown Bros., Inc. | | Mayse Construction Co. | | Norris Bros. Excavating, Inc. | |
|---|---|---|---|---|---|---|---|---|---|
| Item No. | Description | Unit | Est. No. of Units | Unit Price | Item Total | Unit Price | Item Total | Unit Price | Item Total |
| **33 3100f** | **Plugged Stub** | EA | 2 | $ 315.75 | $ 631.50 | $ 896.80 | $ 1,793.60 | $ 500.00 | $ 1,000.00 |
| **33 3100g** | **Cut, Plug, and Abandon Existing Pipe Sewer** | EA | 4 | 1,412.75 | 5,651.00 | 1,407.60 | 5,630.40 | 6,000.00 | 24,000.00 |
| **33 3200** | **TV Inspection of Sewers** | | | | | | | | |
| 33 3200-15 | 15-Inch | LF | 910 | 1.45 | 1,319.50 | 4.15 | 3,776.50 | 3.00 | 2,730.00 |
| 33 3200-12 | 12-Inch | LF | 80 | 1.45 | 116.00 | 2.80 | 224.00 | 3.00 | 240.00 |
| 33 3200-8 | 8-Inch | LF | 415 | 1.45 | 601.75 | 2.10 | 871.50 | 3.00 | 1,245.00 |
| **33 3913** | **Manholes.** Precast or Cast-in-place Concrete Manholes, Standard Cover or Watertight Cover (Where shown on Drawings) Including Frame, Cover, Cone or Slab, Brickwork Required, Base and Riser, etc. Complete-in-place as Specified and/or as Shown on the Drawings. | | | | | | | | |
| **33 3913a** | 4-foot-diameter Manhole 0.0' to 6.0' Deep with Base | EA | 11 | 1,601.44 | 17,615.84 | 1,899.65 | 20,896.15 | 2,100.00 | 23,100.00 |
| **33 3913b** | Standard 4-foot-diameter Manhole Riser Section - Extra Depth over 6 Feet | VF | 46 | 195.50 | 8,993.00 | 152.05 | 6,994.30 | 300.00 | 13,800.00 |
| **33 3913c-1** | Adjust Existing Manhole Frame and Cover 0 to 4 inches | EA | 1 | 525.00 | 525.00 | 824.90 | 824.90 | 685.00 | 685.00 |
| 33 3913c-2 | Adjust Existing Manhole Frame and Cover Using 4- to 6-inch Concrete Donuts | EA | 1 | 525.00 | 525.00 | 963.75 | 963.75 | 685.00 | 685.00 |
| 33 3913c-3 | Removing and resetting Cone, Manhole Frame and Cover in Street to Install Risers Sections on Existing Manholes (Risers to be Paid Under Item 33 3913b) | EA | 2 | 895.00 | 1,790.00 | 3,169.05 | 6,338.10 | 1,000.00 | 2,000.00 |
| 33 3913c-4 | Additional Manhole Adjustment as Required | EA | 2 | 1,005.00 | 2,010.00 | 963.75 | 1,927.50 | 1,000.00 | 2,000.00 |
| 33 3913c-5 | Abandon Existing Manhole by Removing Frame, Cover, and Cone; Fill with Crushed Stone to within 4 Feet of Ground Level | EA | 4 | 475.00 | 1,900.00 | 2,961.95 | 11,847.80 | 2,200.00 | 8,800.00 |
| **33 3913d** | **Grout Existing Manholes** Using Non-shrink Grout | EA | 1 | 450.00 | 450.00 | 1,112.20 | 1,112.20 | 600.00 | 600.00 |
| **33 3913e** | **Pour Inverts in Existing Manholes** | EA | 2 | 550.00 | 1,100.00 | 386.80 | 773.60 | 600.00 | 1,200.00 |
| **33 3913f** | **Core and Boot Existing Manholes** | | | | | | | | |
| 33 3913f-8 | 8-Inch | EA | 2 | 425.00 | 850.00 | 1,328.00 | 2,656.00 | 1,500.00 | 3,000.00 |
| **TOTAL SCHEDULE I - BASE BID (LINES A AND B: TDOT NON-REIMBURSABLE)** | | | | | **$367,978.87** [2] | | **$442,481.50** | | **$422,176.00** |

| | | | | Brown Bros., Inc. | | Mayse Construction Co. | | Norris Bros. Excavating, Inc. | |
|---|---|---|---|---|---|---|---|---|---|
| Item No. | Description | Unit | Est. No. of Units | Unit Price | Item Total | Unit Price | Item Total | Unit Price | Item Total |
| | **SCHEDULE II - BASE BID (LINES C AND D: TDOT REIMBURSABLE)** | | | | | | | | |
| **01** | **Mobilization** | | | | | | | | |
| 01a | Mobilization | EA | 1 | $ 8,700.00 | $ 8,700.00 | $ 8,431.20 | $ 8,431.20 | $ 20,000.00 | $ 20,000.00 |
| 01b | Temporary Mobilization for Manhole Adjustments | EA | 2 | 500.00 | 1,000.00 | 500.00 | 1,000.00 | 500.00 | 1,000.00 |
| **01 7839** | **Project Record Documents** | | | | | | | | |
| 01 7839a | Project Record Data of Manholes of Each Project in Excel® Format on Provided Floppy Disc, Certified As-Builts on P&P Sheets Including Digital CADD File in AutoCAD® format | LS | 1 | 1,100.00 | 1,100.00 | 687.25 | 687.25 | 10,000.00 | 10,000.00 |
| **03 3000** | **Cast-in-place Concrete**, Complete in Place as Specified or as shown on the Drawings | | | | | | | | |
| 03 3000a | Class A Concrete | CY | 3 | 362.00 | 1,086.00 | 385.30 | 1,155.90 | 500.00 | 1,500.00 |
| 03 3000b | Class B Concrete | CY | 5 | 129.00 | 645.00 | 241.00 | 1,205.00 | 100.00 | 500.00 |
| **31 1200** | **Video Recording of Easement Areas** | LS | 1 | 500.00 | 500.00 | 179.95 | 179.95 | 1,000.00 | 1,000.00 |
| **31 2000** | **Earthwork**, Complete in Place as Specified and/or shown on the Drawings | | | | | | | | |
| **31 2000a** | **Crushed Rock Backfill**, Complete in Place as Specified and/or Shown on Drawings in Trench for Pipe Sewers in Streets, Driveways, and Parking Lots from Top of Bedding to Finished Grade, for Pipe Depth Indicated. | | | | | | | | |
| **31 2000a-10** | **Backfill for 10-Inch Diameter Pipe** | | | | | | | | |
| 31 2000a-10.1 | 6.1' to 8.0' Deep | LF Trench | 45 | 30.65 | 1,379.25 | 65.25 | 2,936.25 | 148.00 | 6,660.00 |
| 31 2000a-10.2 | 8.1' to 10.0' Deep | LF Trench | 55 | 33.22 | 1,827.10 | 80.35 | 4,419.25 | 148.00 | 8,140.00 |
| **31 2000a-8** | **Backfill for 8-Inch Diameter Pipe** | | | | | | | | |
| 31 2000a-8.1 | 0.0' to 6.0' Deep | LF Trench | 10 | 29.00 | 290.00 | 50.35 | 503.50 | 148.00 | 1,480.00 |
| 31 2000a-8.2 | 6.1' to 8.0' Deep | LF Trench | 165 | 30.65 | 5,057.25 | 65.20 | 10,758.00 | 148.00 | 24,420.00 |
| 31 2000a-8.3 | 8.1' to 10.0' Deep | LF Trench | 100 | 33.22 | 3,322.00 | 80.10 | 8,010.00 | 148.00 | 14,800.00 |
| 31 2000a-8.4 | 10.1' to 12.0' | LF Trench | 5 | 36.43 | 182.15 | 95.40 | 477.00 | 148.00 | 740.00 |
| 31 2000a-8.5 | 14.1' to 16.0' | LF Trench | 10 | 39.64 | 396.40 | 129.50 | 1,295.00 | 148.00 | 1,480.00 |
| **31 2000b** | **Crushed Rock Bedding Material** (In Excess of Standard Bedding) | CY | 30 | 28.00 | 840.00 | 34.15 | 1,024.50 | 30.00 | 900.00 |
| **31 2000c** | **Street Sawcut** Over 5 Inches Thick | LF | 180 | 3.00 | 540.00 | 4.15 | 747.00 | 9.00 | 1,620.00 |
| **31 2000d** | **Trench Rock Excavation** | CY | 280 | 152.04 | 42,571.20 [3] | 100.00 | 28,000.00 | 30.00 | 8,400.00 |

| | | | | Brown Bros., Inc. | | Mayse Construction Co. | | Norris Bros. Excavating, Inc. | |
|---|---|---|---|---|---|---|---|---|---|
| Item No. | Description | Unit | Est. No. of Units | Unit Price | Item Total | Unit Price | Item Total | Unit Price | Item Total |
| **31 2500** | **Slope Protection and Erosion Control.** All costs are to be Complete-in-place as Shown on Drawings or as Directed by the Owner. | | | | | | | | |
| 31 2500a | Temporary Silt Fence | LF | 175 | $ 2.25 | $ 393.75 | $ 4.10 | $ 717.50 | $ 3.00 | $ 525.00 |
| 31 2500c | Temporary Construction Entrance | EA | 3 | 750.00 | 2,250.00 | 1,230.90 | 3,692.70 | 1,500.00 | 4,500.00 |
| **32 1000** | **New and Replacement Paving and Sidewalks** | | | | | | | | |
| 32 1000b | Type B Modified Asphalt Binder (at Manhole Cuts, 1.5 Inches Thick) | TN | 14 | 225.00 | 3,150.00 | 252.90 | 3,540.60 | 147.00 | 2,058.00 |
| 32 1000c | Asphalt Topping (at Manhole Cuts, 2.5 Inches Thick) | TN | 10 | 234.00 | 2,340.00 | 331.75 | 3,317.50 | 147.00 | 1,470.00 |
| **32 1200** | **Flowable Controlled Low Strength Material (CLSM) for Abandoned Underground Pipe or for Cuts Made in Streets** | | | | | | | | |
| 32 1200a | CLSM in Road Cut at Manholes (4 Feet Deep by 5 Feet around Manhole) | CY | 150 | 98.50 | 14,775.00 [3] | 114.55 | 17,182.50 | 110.00 | 16,500.00 |
| 32 1200b | CLSM in Underground Pipe | CY | 15 | 98.50 | 1,477.50 | 114.55 | 1,718.25 | 110.00 | 1,650.00 |
| **32 9219** | **Seeding** | | | | | | | | |
| 32 9219a | Seed and Straw | SF | 5,500 | 0.12 | 660.00 | 0.05 | 275.00 | 0.10 | 550.00 |
| **33 0523** | **Utility Crossing of Highway with 18-Inch Steel Casing with 8-Inch Carrier Pipe** | LF | 80 | 395.82 | 31,665.60 | 531.85 | 42,548.00 | 320.00 | 25,600.00 |
| **33 1120** | **Ductile Iron Piping.** Ductile Iron Pipe Sewers with Push-on Joints and Rubber O-ring Gaskets, Excavation, Bedding Stone, Non-stone Earth Backfill as Required, Complete in Place as specified and/or Shown on Drawings | | | | | | | | |
| **33 1120a** | **Ductile Iron Pipe Service Lines** | | | | | | | | |
| **33 1120a-10** | 10-Inch Ductile Iron Pipe | | | | | | | | |
| 33 1120a-10.01 | 0.0' to 6.0' Deep | LF | 5 | 74.91 | 374.55 [3] | 96.00 | 480.00 | 100.00 | 500.00 |
| 33 1120a-10.02 | 6.1' to 8.0' Deep | LF | 45 | 77.23 | 3,475.35 [3] | 99.40 | 4,473.00 | 100.00 | 4,500.00 |
| 33 1120a-10.03 | 8.1' to 10.0' Deep | LF | 67 | 80.09 | 5,366.03 [3] | 102.85 | 6,890.95 | 100.00 | 6,700.00 |
| 33 1120a-10.04 | 10.1' to 12.0' Deep | LF | 5 | 83.72 | 418.60 | 107.45 | 537.25 | 1,000.00 | 5,000.00 |
| **33 3100** | **Polyvinyl Chloride (PVC) Sewers and Service Lines with Bell and Spigot O-ring Joints Installed in Trench,** Including Excavation, Bedding, Non-Stone Earth Backfill as Required, Etc., Complete in Place as Specified | | | | | | | | |
| **33 3100a-8** | **8-Inch PVC Pipe** | | | | | | | | |
| 33 3100a.8.01 | 6.1' to 8.0' Deep | LF | 165 | 30.85 | 5,090.25 | 35.15 | 5,799.75 | 48.00 | 7,920.00 |
| 33 3100a-8.02 | 8.1' to 10.0' Deep | LF | 235 | 34.15 | 8,025.25 [3] | 38.10 | 8,953.50 | 55.00 | 12,925.00 |

| | | | | Brown Bros., Inc. | | Mayse Construction Co. | | Norris Bros. Excavating, Inc. | |
|---|---|---|---|---|---|---|---|---|---|
| Item No. | Description | Unit | Est. No. of Units | Unit Price | Item Total | Unit Price | Item Total | Unit Price | Item Total |
| 33 3100a-8.03 | 10.1' to 12.0' Deep | LF | 76 | $ 36.63 | $ 2,783.88 [3] | $ 42.65 | $ 3,241.40 | $ 65.00 | $ 4,940.00 |
| 33 3100a-8.04 | 12.1' to 14.0' Deep | LF | 28 | 40.76 | 1,141.28 [3] | 52.55 | 1,471.40 | 75.00 | 2,100.00 |
| 33 3100a-8.05 | 14.1' to 16.0' Deep | LF | 28 | 46.27 | 1,295.56 | 58.55 | 1,639.40 | 85.00 | 2,380.00 |
| **33 3100a-8.06** | 16.1' to 18.0' Deep | LF | 5 | 53.98 | 269.90 | 64.65 | 323.25 | 100.00 | 500.00 |
| **33 3100b** | **PVC Pipe Sewer and Service Lines** | | | | | | | | |
| 33 3100a-6 | 6-Inch Service Line | LF | 10 | 16.85 | 168.50 | 44.75 | 447.50 | 27.00 | 270.00 |
| 33 3100a-4 | 4-Inch Service Line | LF | 15 | 18.00 | 270.00 | 41.60 | 624.00 | 26.00 | 390.00 |
| **33 3100c** | **PVC Pipe Risers**, Complete in Place | | | | | | | | |
| 33 3100d-6 | 6-Inch Riser | EA | 2 | 200.00 | 400.00 | 52.95 | 105.90 | 300.00 | 600.00 |
| 33 3100d-4 | 4-Inch Riser | EA | 3 | 175.00 | 525.00 | 38.35 | 115.05 | 300.00 | 900.00 |
| **33 3100d** | **PVC Pipe Tees**, Complete in Place as Specified and/or Shown on Drawings | | | | | | | | |
| 33 3100d-8T6 | 8-Inch x 6-inch Pipe Tee | EA | 2 | 86.41 | 172.82 | 73.70 | 147.40 | 300.00 | 600.00 |
| 33 3100d-8T4 | 8-Inch x 4-inch Pipe Tee | EA | 3 | 85.67 | 257.01 | 62.70 | 188.10 | 300.00 | 900.00 [7] |
| **33 3100e** | **PVC Pipe Deflection Test** | | | | | | | | |
| 33 3100e-8 | 8-Inch PVC Pipe Deflection Test | LF | 610 | 1.00 | 610.00 | 0.45 | 274.50 | 2.00 | 1,220.00 |
| **33 3100f** | **Cut, Plug, and Abandon Existing Pipe Sewer** | EA | 3 | 1,412.75 | 4,238.25 | 1,412.95 | 4,238.85 | 6,000.00 | 18,000.00 |
| **33 3200** | **TV Inspection of Sewers** | | | | | | | | |
| 33 3200-8 | 8-Inch | LF | 610 | 1.45 | 884.50 | 2.10 | 1,281.00 | 3.00 | 1,830.00 |
| **33 3913** | **Manholes.** Precast or Cast-in-place Concrete Man-holes, Standard Cover or Watertight Cover (Where shown on Drawings) Including Frame, Cover, Cone or Slab, Brickwork Required, Base and Riser, etc. Complete-in-place as Specified and/or as Shown on the Drawings. | | | | | | | | |
| **33 3913a** | 4-foot-diameter Manhole 0.0' to 6.0' Deep with Base | EA | 8 | 1,601.44 | 12,811.52 | 1,899.65 | 15,197.20 | 2,200.00 | 17,600.00 |
| **33 3913b** | Standard 4-foot-diameter Manhole Riser Section - Extra Depth over 6 Feet | VF | 30 | 169.49 | 5,084.70 | 152.05 | 4,561.50 | 300.00 | 9,000.00 |
| **33 3913c-1** | Adjust Existing Manhole Frame and Cover 0 to 4 inches | EA | 1 | 525.00 | 525.00 | 824.90 | 824.90 | 685.00 | 685.00 |
| 33 3913c-2 | Adjust Existing Manhole Frame and Cover Using 4- to 6-inch Concrete Donuts | EA | 3 | 525.00 | 1,575.00 | 963.75 | 2,891.25 | 1,000.00 | 3,000.00 |

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|---|---|---|---|---|---|---|---|---|---|
| Item No. | Description | Unit | Est. No. of Units | Unit Price | Item Total | Unit Price | Item Total | Unit Price | Item Total |
| 33 3913c-3 | Removing and resetting Cone, Manhole Frame and Cover in Street to Install Risers Sections on Existing Manholes (Risers to be Paid Under Item 33 3913b) | EA | 2 | $ 895.00 | $ 1,790.00 | $ 3,169.05 | $ 6,338.10 | $ 1,000.00 | $ 2,000.00 |
| 33 3913c-4 | Additional Manhole Adjustment as Required | EA | 2 | 1,005.00 | 2,010.00 | 963.75 | 1,927.50 | 2,200.00 | 4,400.00 |
| 33 3913c-5 | Abandon Existing Manhole by Removing Frame, Cover, and Cone; Fill with Crushed Stone to within 4 Feet of Ground Level | EA | 3 | 475.00 | 1,425.00 | 2,992.35 | 8,977.05 | 2,200.00 | 6,600.00 |
| **33 3913d** | **Grout Existing Manholes Using Non-shrink Grout** | EA | 2 | 450.00 | 900.00 | 1,112.20 | 2,224.40 | 600.00 | 1,200.00 |
| **33 3913e** | **Pour Inverts in Existing Manholes** | EA | 2 | 550.00 | 1,100.00 | 386.80 | 773.60 | 600.00 | 1,200.00 |
| **33 3914** | **Replace Existing 48-Inch RCP Storm Pipe with 48-Inch N-12 Storm Pipe** Including Pipe Connector | LF | 20 | 84.12 | 1,682.40 | 452.90 | 9,058.00 | 560.00 | 11,200.00 |
| **TOTAL SCHEDULE II - BASE BID (LINES C AND D: TDOT REIMBURSABLE)** | | | | | **$190,818.55** [4] | | **$237,827.55** | | **$284,553.00** [8] |
| **TOTAL BASE BID: SCHEDULE I + SCHEDULE II** | | | | | **$558,797.42** [5] | | **$680,309.05** | | **$706,729.00** [9] |

[1] Brown Bros. Schedule I. Math error corrected.
[2] Brown Bros. Total Schedule I - Base Bid. Math error corrected.
[3] Brown Bros. Schedule II. Math error corrected.
[4] Brown Bros. Total Schedule II - Base Bid. Math error corrected.
[5] Brown Bros. Total Base Bid: Schedule I + Schedule II. Math error corrected.
[6] Norris Bros. Schedule I, Item No. 33 3100a-15.04. Math error corrected. Schedule I total did not change.
[7] Norris Bros. Schedule II, Item No. 33 3100d-8T4. Math error corrected.
[8] Norris Bros. Total Schedule II - Base Bid. Math error corrected.
[9] Norris Bros. Total Base Bid: Schedule I + Schedule II. Math error corrected.