BOARD OF THE METROPOLITAN SEWERAGE DISTRICT AUGUST 16, 2017

1. Call to Order and Roll Call:

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> The regular monthly meeting of the Metropolitan Sewerage District Board was held in the Boardroom of MSD's Administration building at 2pm Wednesday, August 16, 2017. Chairman VeHaun presided with the following members present: Bryson, Creighton, Kelly, Pressley, Root and Wisler. The following members were absent: Ashley, Collins, Frost, Manheimer and Pelly.

> Others present were: Thomas E. Hartye, General Manager; William Clarke, General Counsel; Forrest Westall with McGill Associates; Marcus Jones and Commissioner Bill Lapsley with Henderson County; Joseph Martin with Woodfin Sanitary Water & Sewer District; Ed Bradford, Scott Powell, Jim Hemphill, Matthew Walter, Peter Weed, Mike Stamey, Ken Stines, Hunter Carson, Spencer Nay and Pam Nolan.

2. Inquiry as to Conflict of Interest:

Mr. VeHaun asked if there were any conflicts of interest with the agenda items. No conflicts were reported.

3. Approval of Minutes of the July 19, 2017 Board Meeting:

Mr. Vehaun asked if there were any changes to the Minutes of the July 19, 2017 Board Meeting. Mr. Creighton moved for approval of the minutes as presented. Mr. Root seconded the motion. Voice vote in favor of the motion was unanimous.

4. Discussion and Adjustment of Agenda:

None

5. Informal Discussion and Public Comment:

Mr. Vehaun welcomed Marcus Jones, Bill Lapsley and Joe Martin. There was no public comment.

6. **Report of General Manager:**

Mr. Hartye reported that Commissioner Bill Lapsley and County Engineer Marcus Jones were present to address the Board. Mr. Lapsley introduced himself and stated that he is a member of the Henderson County Board of Commissioners and, based on past experience, finds himself in the default position of dealing with all things water and sewer related in Henderson County. Mr. Lapsley stated that he is in attendance today on behalf of his fellow Commissioners to thank the District for support on the recent action of the General Assembly. He further commented that he is sure all are aware than an action was passed whereby this Board has the option to expand and include what is now a significant portion of the Cane Creek

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Water and Sewer District in Henderson County. The Cane Creek Water and Sewer District consists of about 3,600 customers who discharge into the District's system. The first step in this process was for the Henderson County Commissioners to pass a resolution of intent. This Resolution was passed by the Henderson County Board on July 19, 2017 and is included with this Board package. Mr. Lapsley stated that over the next 8-9 months he anticipates further discussions between Henderson County and the District to work through the numerous steps and that he looked forward to working with the District. He stated that again his primary role today was to thank the District for their position in the past on this action in legislature and that they look forward to working with the District in the months and years ahead. Mr. Vehaun asked if there were any questions or comments. There were none. Mr. Hartye reported that Cane Creek Water and Sewer flow does come to the District for treatment. At this time, the District does not maintain Cane Creek's local lines and pump stations, which consist of about 60 miles. The District has looked at this issue several times in the past and it looks favorable and makes sense as the drainage basin flows in this direction. Attached is a copy of the Resolution that Mr. Lapsley referred to, followed by a synopsis of the merger process. Mr. Hartye thanked Mr. Bradford for preparing this summary. The first step, as previously stated, is to have the Resolution which we have today. The second step is for this Board to accept or reject the request. Mr. Hartye stated that after talking with Chairman VeHaun, they thought it would be a good idea to send this to Planning Committee. The final document attached is regarding the Etowah private sewage system and is attached only to keep the Board apprised of this information. Mr. Hartye stated that he has been having discussions with Mr. Lapsley and Mr. Jones regarding this matter. Etowah is not currently part of the Cane Creek Water and Sewer District. There has been talk about Etowah coming into their system and it was referred to in their Master Plan as a potential future area but it was not included in their CIP and it was not included in the District's analysis. Mr. Hartye stated that he is being told now that this will likely not happen. Mr. Hartye stated that his recommendation would be to have a group of representatives consisting of Mr. Clarke, Mr. Westall, Mr. Root and himself to meet with Henderson County representatives and bring something back to the Planning Committee. Mr. VeHaun stated that he would like to officially refer this matter to the Planning Committee, who will then bring a report back to this Board. There were no questions or comments regarding this matter.

Mr. Hartye reported that attached is a blurb from Hartwell Carson, French Broad River Keeper, which was in the ACT editorial section regarding the System Services folks providing emergency response 24/7/365. Mr. Carson happened to be on site and witnessed this and the District appreciates him bringing this up.

Mr. Hartye reported that attached is an e-mail from Ed King regarding MSD's CIP Document.

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> Mr. Hartye reported that attached is a list of classes for the Collections System Operators School which MSD heads up for the WNC faction of NCAWWA/WEA. Mr. Hartye thanked all who provided great instruction to further the future of our industry.

> Mr. Hartye reported the next regular Board Meeting will be held September 20th at 2pm. The next Right of Way Committee meeting will be held on September 27th at 9am.

> Mr. Hartye reported that Paul Wilkins, an MSD mechanic, passed away and he asked everyone to keep Mr. Wilkin's family in their thoughts and prayers.

7. Consolidated Motion Agenda:

a. Consideration of Equipment Proposals: Sodium Hypochlorite Tank Replacement:

Mr. Hartye reported that all wastewater plants are required to disinfect effluent prior to discharging into the river. MSD uses sodium hypochlorite for this purpose. Previously, chlorine gas was utilized until 2002. There are four tanks holding the sodium hypochlorite, at 15,000 gallons each. These tanks are now past their functional life span and must be replaced. Staff obtained quotes from two regional companies which manufacture chemical storage tanks as follows: Southeastern Fiberglass Products in the amount of \$118,000.00 and Augusta Fiberglass in the amount of \$94,658.00. The apparent low bidder is Augusta Fiberglass with a bid amount of \$94,658.00. The FY 17-18 Construction Budget for this project is \$183,000.00, which also includes funds for the removal of the old tanks and installation of the new tanks. Staff recommends award of this equipment procurement to Augusta Fiberglass in the amount of \$94,658.00, subject to review and approval by District Counsel.

b. Consideration of Equipment Proposals: Blower MCC Replacement:

Mr. Hartye reported that the MCC (Motor Control Center) replacements are for the Rotating Biological Contactors (RBC's) at the plant. The air is used to rotate the RBC's. The blowers were replaced in 2008. However, the starters were not replaced. The replacement units will be "soft starters" which help reduce both startup current and stress on the motors when they cycle on and off. Staff obtained quotes from manufacturers of this equipment follows: as Rockwell two Automation/Allen-Bradley in the amount of \$209,872.00 and Eaton in the amount of \$202,000.00. The apparent low bidder is Eaton with a bid amount of \$202,000.00. Eaton is a local manufacturer based in Arden, NC, which is beneficial for service and parts availability. The FY 17-18 Construction Budget for this project is \$375,000.00, which also includes costs for ancillary equipment and installation. Staff recommends award

of this equipment procurement to Eaton in the amount of \$202,000.00, subject to review and approval by District Counsel.

c. Consideration of Bids: Hendersonville Road at Peachtree Road GSR:

Mr. Hartye reported that this project is located in South Asheville along Hendersonville Road, in front of Walmart. It consists of 1,150 LF of 8-inch DIP, to be installed by dig and replace. The contract was formally advertised on July 27, 2017, and two bids were received as follows: Thomas Construction Company in the amount of \$486,400.00 Terry Brothers Construction Company in the amount and of \$449,062.00. The apparent low bidder is Terry Brothers Construction Company with a bid amount of \$449,062.00. This bid amount is significantly over the FY17-18 Construction Budget due to the NCDOT requiring the project to be constructed entirely during nighttime hours. The NCDOT is also requiring a certified traffic control contractor to perform traffic control at a reported cost of \$1,500.00 per day. Staff contacted Terry Brothers to see if there were any areas to reduce costs. Terry Brothers did offer to lower the per-foot pipe cost by \$20.00, reducing the bid amount by \$23,000.00. Therefore, Terry Brothers reduced bid is \$426,062.00. In addition, a project awarded at last month's Board Meeting came in \$186,000.00 under budget and \$130,000.00 of that Budget was transferred to the Contingency Fund. \$91,062.00 will be used from the Contingency Fund to cover the overage on this project. Terry Brothers has completed numerous projects for the District and their work continues to be excellent. Staff recommends award of this contract to Terry Brothers Construction Company in the amount of \$426,062, subject to review and approval by District Counsel.

d. Consideration of Developer Constructed Sewer Systems: Asheville Area Habitat for Humanity-Beale Road; Ball Gap Road; Four Seasons Investments-Gibson Road; Monticello Apartments (aka Hawthorne at Weaverville); Newbridge Parkway Apartments; Pinnacle at Arabella Heights; Richland Street; Shelburne Drive; Somerset at Walnut Cove; White Oak (aka Cool Creek Properties):

Mr. Hartye reported that the Asheville Area Habitat for Humanity-Beale Road project included extending approximately 463 linear feet of 8-inch public gravity sewer to serve the 21 unit residential development.

Mr. Hartye reported that the Ball Gap Road Subdivision in Buncombe County included extending approximately 951 linear feet of 8-inch public gravity sewer to serve the 14 unit residential development. Minutes August 16, 2017 Page Five

> Mr. Hartye reported that the Four Seasons Investments-Gibson Road Subdivision project is located in the City of Asheville and included extending approximately 135 linear feet of 8-inch public gravity sewer to serve the 3 unit residential development.

> Mr. Hartye reported that the Monticello Apartments (aka Hawthorne at Weaverville) is located in the Town of Weaverville and included extending approximately 1,495 linear feet of 8-inch public gravity sewer to serve the 168 unit apartment complex.

Mr. Hartye reported that the Newbridge Parkway Apartments project is located in the Town of Woodfin and included extending approximately 598 linear feet of 8-inch public gravity sewer to serve the first phase of the 154 unit apartment complex.

Mr. Hartye reported that the Pinnacle at Arabella Heights project is located in Buncombe County and included extending approximately 3,907 linear feet of 8-inch public gravity sewer to serve the 65 unit residential subdivision.

Mr. Hartye reported that the Richland Street Homes project is located in the City of Asheville and included extending approximately 520 linear feet of 8-inch public gravity sewer to serve the 5 unit residential subdivision.

Mr. Hartye reported that the Shelburne Drive project is located in the City of Asheville and included extending approximately 420 linear feet of 8-inch public gravity sewer to serve the 9 unit residential subdivision.

Mr. Hartye reported that the Somerset at Walnut Cove project is located in Buncombe County and included extending approximately 432 linear feet of 8-inch public gravity sewer to serve the 5 unit residential subdivision.

Mr. Hartye reported that the White Oak (aka Cool Creek Properties) project is located in Buncombe County and included extending approximately 1,020 linear feet of 8-inch public gravity sewer to serve the 10 unit residential development.

Staff recommends acceptance of the aforementioned developer constructed sewer systems. All MSD requirements have been met.

e. Consideration of Reimbursement Resolution for Bond Projects:

Mr. Powell reported that to be in compliance with IRS regulations concerning tax-exempt financing, all expenditures made with non-MSD bond funds and to be reimbursed from MSD bond funds must be properly identified and authorized. The proposed reimbursement resolution identifies major projects intended to be solely or substantially Minutes August 16, 2017 Page Six

> financed by bonds anticipated to be issued in FY 2023. Board approval is required to obtain the tax-exemption of interest paid on MSD bonds by authorizing reimbursement from bond proceeds of the expenditures for the attached project listing.

f. Fourth Quarter Budget to Actual Review – FY 2017:

Mr. Powell reported that the Domestic Revenue is above budgeted expectations. Staff believes Domestic User Fee variance will end up around 103% when June accounts receivable data is received from its Member Agencies in relation to the District's audit in September. Industrial Revenue is trending better than budgeted expectations due to temporary increased revenue from one new industrial user. Facility and Tap Fees are above budgeted expectations. This is due to the District receiving \$3.7 million from 8 developments as well as the conservative nature in which these funds are budgeted. Interest and miscellaneous income are below budgeted expectations. Short-term interest rates are still experiencing pressures due to Federal Reserve monetary policy. O&M expenditures are at 96.35% of budget. This amount may vary slightly from audited numbers due to final accruals for the fiscal year. Bond principal and interest are better than budgeted expectations due to the interest rate swap associated with Series 2008A revenue refunding bonds. Capital Project expenditures are at approximately 81.89% of budget. CIP projects are continuing to receive favorable pricing.

g. Cash Commitment/Investment Report Month ended June 30, 2017:

Mr. Powell reported that Page 72 presents the makeup of the District's Investment Portfolio. The makeup of the portfolio is substantially the same as compared to last month. Page 73 is the MSD Investment Manager report as of the month of June. The weighted average maturity of the investment portfolio is 125 days. The yield to maturity is 1.06% and is exceeding MSD bench marks of the 6 month T-Bill and NCCMT cash portfolio. Page 76 presents the MSD Variable Debt Service report for the month of July. The 2008A Series Refunding Bonds are performing better than budgeted expectations. As of the end of July this issue has saved the District rate payers approximately \$5.1 million dollars in debt service since April 2008.

With no further discussion, Mr. VeHaun called for a motion to approve the Consolidated Motion Agenda. Mr. Kelly moved. Mr. Creighton seconded the motion. Roll call vote was as follows: 7 Ayes; 0 Nays. Minutes August 16, 2017 Page Seven

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8. Old Business:

None

9. New Business:

None

10. Adjournment:

With no further business, Mr. VeHaun called for adjournment at 2:28 pm.

Jackie W. Bryson, Secretary/Treasurer

MSD

Regular Board Meeting

Metropolitan Sewerage District of Buncombe County, NC

AGENDA FOR 8/16/17

Call to Order and Roll Call VeHaun 2 01. Inquiry as to Conflict of Interest VeHaun 2 02. Approval of Minutes of the July 19, 2017 Board Meeting VeHaun 2 03. Discussion and Adjustment of Agenda. VeHaun 2 04. Informal Discussion and Public Comment VeHaun 2 05. Report of General Manager Hartye 2 06. Consolidated Motion Agenda Hartye 2 a. Consideration of Equipment Proposals: Sodium Hypochlorite Tank Replacement Hartye b. Consideration of Equipment Proposals: Blower MMC Replacement Hartye c. Consideration of Bids: Hendersonville Road @ Peachtree Road GSR Hartye d. Consideration of Developer Constructed Sewer Systems: Asheville Area Habitat – Beale Road; Ball Gap Road; Four Seasons Investments – Gibson Road; Monticello Apartments (aka Hawthorne at Weaverville); Newbridge Parkway Apartments; Pinnacle at Arabella Heights; Richland Street; Hartye	Time
01.Inquiry as to Conflict of InterestVeHaun202.Approval of Minutes of the July 19, 2017 Board MeetingVeHaun203.Discussion and Adjustment of Agenda.VeHaun204.Informal Discussion and Public CommentVeHaun205.Report of General ManagerHartye206.Consolidated Motion AgendaHartye2a.Consideration of Equipment Proposals: Sodium Hypochlorite Tank ReplacementHartye2b.Consideration of Equipment Proposals: Blower MMC ReplacementHartyeHartyec.Consideration of Bids: Hendersonville Road @ Peachtree Road GSRHartyeHartyed.Consideration of Developer Constructed Sewer Systems: Asheville Area Habitat – Beale Road; Ball Gap Road; Four Seasons Investments – Gibson Road; Monticello Apartments (aka Hawthorne at Weaverville); Newbridge Parkway Apartments; Pinnacle at Arabella Heights; Richland Street;Hartye	
02. Approval of Minutes of the July 19, 2017 VeHaun 2 03. Discussion and Adjustment of Agenda. VeHaun 2 04. Informal Discussion and Public Comment VeHaun 2 05. Report of General Manager Hartye 2 06. Consolidated Motion Agenda Hartye 2 a. Consideration of Equipment Proposals: Sodium Hypochlorite Tank Replacement Hartye 2 b. Consideration of Equipment Proposals: Blower MMC Replacement Hartye Hartye c. Consideration of Bids: Hendersonville Road @ Peachtree Road GSR Hartye Hartye d. Consideration of Developer Constructed Sewer Systems: Asheville Area Habitat – Beale Road; Ball Gap Road; Four Seasons Investments – Gibson Road; Monticello Apartments (aka Hawthorne at Weaverville); Newbridge Parkway Apartments; Pinnacle at Arabella Heights; Richland Street; Hartye	2:00
Board Meeting 03. Discussion and Adjustment of Agenda. VeHaun 2 04. Informal Discussion and Public Comment VeHaun 2 05. Report of General Manager Hartye 2 06. Consolidated Motion Agenda Hartye 2 a. Consideration of Equipment Proposals: Sodium Hypochlorite Tank Replacement Hartye 2 b. Consideration of Equipment Proposals: Blower MMC Replacement Hartye 4 c. Consideration of Bids: Hendersonville Road @ Peachtree Road GSR Hartye 4 d. Consideration of Developer Constructed Sewer Systems: Asheville Area Habitat – Beale Road; Ball Gap Road; Four Seasons Investments – Gibson Road; Monticello Apartments (aka Hawthorne at Weaverville); Newbridge Parkway Apartments; Pinnacle at Arabella Heights; Richland Street; Hartye	2:05
04. Informal Discussion and Public Comment VeHaun 2 05. Report of General Manager Hartye 2 06. Consolidated Motion Agenda Hartye 2 a. Consideration of Equipment Proposals: Sodium Hypochlorite Tank Replacement Hartye 2 b. Consideration of Equipment Proposals: Blower MMC Replacement Hartye 4 c. Consideration of Equipment Proposals: Blower MMC Replacement Hartye 4 d. Consideration of Bids: Hendersonville Road @ Peachtree Road GSR Hartye 4 d. Consideration of Developer Constructed Sewer Systems: Asheville Area Habitat – Beale Road; Ball Gap Road; Four Seasons Investments – Gibson Road; Monticello Apartments (aka Hawthorne at Weaverville); Newbridge Parkway Apartments; Pinnacle at Arabella Heights; Richland Street; Hartye	2:10
05. Report of General Manager Hartye 2 06. Consolidated Motion Agenda Hartye 2 a. Consideration of Equipment Proposals: Sodium Hypochlorite Tank Replacement Hartye 2 b. Consideration of Equipment Proposals: Blower MMC Replacement Hartye 4 c. Consideration of Equipment Proposals: Blower MMC Replacement Hartye 4 d. Consideration of Bids: Hendersonville Road @ Peachtree Road GSR Hartye 4 d. Consideration of Developer Constructed Sewer Systems: Asheville Area Habitat – Beale Road; Ball Gap Road; Four Seasons Investments – Gibson Road; Monticello Apartments (aka Hawthorne at Weaverville); Newbridge Parkway Apartments; Pinnacle at Arabella Heights; Richland Street; Hartye	2:15
06. Consolidated Motion Agenda Hartye 2 a. Consideration of Equipment Proposals: Sodium Hypochlorite Tank Replacement Hartye 2 b. Consideration of Equipment Proposals: Blower MMC Replacement Hartye 4 c. Consideration of Bids: Hendersonville Road @ Peachtree Road GSR Hartye 4 d. Consideration of Developer Constructed Sewer Systems: Asheville Area Habitat – Beale Road; Ball Gap Road; Four Seasons Investments – Gibson Road; Monticello Apartments (aka Hawthorne at Weaverville); Newbridge Parkway Apartments; Pinnacle at Arabella Heights; Richland Street; Hartye	2:20
a. Consideration of Equipment Proposals: Sodium Hypochlorite Tank Replacement Hartye b. Consideration of Equipment Proposals: Blower MMC Replacement Hartye c. Consideration of Bids: Hendersonville Road @ Peachtree Road GSR Hartye d. Consideration of Developer Constructed Sewer Systems: Asheville Area Habitat – Beale Road; Ball Gap Road; Four Seasons Investments – Gibson Road; Monticello Apartments (aka Hawthorne at Weaverville); Newbridge Parkway Apartments; Pinnacle at Arabella Heights; Richland Street; Hartye	2:25
Hypochlorite Tank Replacement Hypochlorite Tank Replacement b. Consideration of Equipment Proposals: Blower MMC Replacement Hartye c. Consideration of Bids: Hendersonville Road @ Hartye Peachtree Road GSR Hartye d. Consideration of Developer Constructed Sewer Systems: Asheville Area Habitat – Beale Road; Ball Gap Road; Four Seasons Investments – Gibson Road; Monticello Apartments (aka Hawthorne at Weaverville); Newbridge Parkway Apartments; Pinnacle at Arabella Heights; Richland Street; Hartye	2:35
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Peachtree Road GSR Hartye d. Consideration of Developer Constructed Sewer Hartye Systems: Asheville Area Habitat – Beale Road; Ball Hartye Gap Road; Four Seasons Investments – Gibson Road; Monticello Apartments (aka Hawthorne at Weaverville); Newbridge Parkway Apartments; Pinnacle at Arabella Heights; Richland Street;	
Systems: Asheville Area Habitat – Beale Road; Ball Gap Road; Four Seasons Investments – Gibson Road; Monticello Apartments (aka Hawthorne at Weaverville); Newbridge Parkway Apartments; Pinnacle at Arabella Heights; Richland Street;	
Shelburne Drive; Somerset at Walnut Cove; White Oak (aka Cool Creek Properties)	
e. Consideration of Reimbursement Resolution for Hartye Bond Projects	
f. Fourth Quarter Budget to Actual Review - FY2017 Hartye	
g. Cash Commitment/Investment Report Month Ended Powell June 30, 2017	
07. Old Business: VeHaun 3	3:15
08. New Business: VeHaun 3	3:20
09. Adjournment: (Next Meeting 9/20/17) VeHaun 3	3:30
STATUS REPORTS	

BOARD OF THE METROPOLITAN SEWERAGE DISTRICT JULY 19, 2017

1. Call to Order and Roll Call:

The regular monthly meeting of the Metropolitan Sewerage District Board was held in the Boardroom of MSD's Administration building at 2pm Wednesday, July 19, 2017. Chairman VeHaun presided with the following members present: Bryson, Collins, Creighton, Frost, Kelly, Manheimer, Pelly, Pressley, Root and Wisler. The following members were absent: Ashley.

Others present were: Thomas E. Hartye, General Manager; William Clarke, General Counsel; Forrest Westall with McGill Associates; Ed Bradford, Cheryl Rice, Jim Hemphill, Matthew Walter, Peter Weed, Mike Stamey, Ken Stines, Spencer Nay and Pam Nolan.

2. Election of Officers:

Mr. VeHaun called on Mr. Clarke to preside over the election of the Chairman. Mr. Clarke called for nominations for Chairman of the MSD Board. Mr. Kelly nominated Mr. VeHaun as Chairman. Ms. Frost and Mr. Pressley seconded the nomination. Mr. Clarke called for further nominations. With no further nominations Mr. Clarke called for a motion that nominations be closed. Mr. Root made the motion. Mr. Kelly seconded. Voice vote in favor of the motion was unanimous. With Mr. Vehaun being the only nominee for Chairman of the Board for 2017-2018, Mr. Clarke asked for a show of hands in support of Mr. VeHaun being elected to serve as Chair. All were in favor.

Mr. VeHaun called for nominations for Vice Chairman of the MSD Board. Mr. Root nominated Mr. Kelly. Ms. Bryson seconded the nomination. Mr. VeHaun called for further nominations. With no further nominations, Mr. VeHaun called for a motion that nominations be closed and that, by acclamation, Mr. Kelly be elected as Vice Chairman of the MSD Board for 2017-2018. Ms. Wisler made the motion. Mr. Pelly seconded the motion. Voice vote in favor of the motion was unanimous.

Mr. VeHaun appointed Ms. Bryson as Secretary/Treasurer of the MSD Board for 2017-2018. Mr. Kelly moved to approve the appointment of Ms. Bryson. Mr. Pelly seconded the motion. Voice vote in favor of the appointment was unanimous.

3. Inquiry as to Conflict of Interest:

Mr. VeHaun asked if there were any conflicts of interest with the agenda items. No conflicts were reported.

4. Approval of Minutes of the June 19, 2017 Board Meeting:

Mr. Vehaun asked if there were any changes to the Minutes of the June 19, 2017 Board Meeting. Ms. Frost moved for approval of the minutes

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as presented. Mr. Pressley seconded the motion. Voice vote in favor of the motion was unanimous.

5. Discussion and Adjustment of Agenda:

None

6. Informal Discussion and Public Comment:

None

7. Report of General Manager:

Mr. Hartye reported that this year's United Way Golf Tournament will be held at the Grove Park Inn golf course at 7 am on September 14th. Please contact Owen Herbert at 828-225-8331 or <u>OwenH@msdbc.org</u>.

Mr. Hartye reported that Bill Slawter of 47 Dogwood Road called to express his appreciation for Roy Lytle and crew. Mr. Slawter stated that he was very pleased with the work they did. Thanks to Roy, Billy Cantrell, Marvin Felder, Jamie Foxx and Nicolas Hercules.

Mr. Hartye reported the Right of Way Committee meeting scheduled for July 26th at 9 am has been cancelled. The next Right of Way Committee meeting will be held on August 23rd at 9am.

8. **Report of Committees:**

Personnel Committee:

Ms. Bryson reported that the Personnel Committee met on this day at 1:00 pm to consider the evaluation of the General Manager. The Committee recommends the Board approve an increase of 3.0%. Mr. Clarke noted that 3.0% is the raise all MSD employees received. He further reported that 3.0% for Mr. Hartye will be an increase of \$5,562.00/year. Mr. Hartye's current salary is \$185,400.00/year. Mr. VeHaun called for a motion to approve the recommendation of the Personnel Committee. Mr. Creighton moved. Mr. Kelly seconded the motion. Roll call vote was as follows: 11 Ayes; 0 Nays.

9. Consolidated Motion Agenda:

a. Consideration of Bids – Point Repair Contract No. 2:

Mr. Hartye reported that this project is comprised of various point repairs located throughout the District's service area. This contract was informally advertised and two bids were received on June 29, 2017 as follows: Terry Brothers Construction Company with a bid of \$259,000.00 and Patton Construction Group with a bid of \$215,610.00. The apparent low bidder is Patton Construction Group. Patton has

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completed rehabilitation projects and sewer line extensions for the District and their work quality has been excellent. Patton was also the contractor on the previous point repair contract. The FY 17-18 Construction Budget for this project is \$250,000.00. Staff recommends award of this contract to Patton Construction Group in the amount of \$215,610.00, subject to review and approval by District Counsel.

b. Consideration of Bids – Louisiana Avenue @ Brucemont Circle GSR:

Mr. Hartye reported that this project is located in West Asheville and is being split between the MSD construction group and a contractor. The new line is comprised of 1,420 LF of 8-inch DIP to be installed by dig and replace. An additional 1,000 LF of this line will be rehabilitated by MSD System Services, for a total project length of 2,420 LF. The contract was advertised and two bids were received on June 29, 2017. The contract was re-advertised and two bids were received on July 10, 2017 in the following amounts: Thomas Construction Company in the amount of \$498,085.00 and Terry Brothers Construction Company in the amount of \$363,252.00. The apparent low bidder is Terry Brothers Construction Company. They have completed numerous projects for MSD and their work quality continues to be good. The FY 17-18 Construction Budget for this project is \$550,000.00, with the estimate for this contracted portion to be \$370,000.00. Staff recommends award to Terry Brothers Construction Company in the amount of \$363,252.00, subject to review and approval by District Counsel.

c. Consideration of Developer Constructed Sewer Systems: Conestee Subdivision, 880-888 Patton Avenue and Upstream Way Phase 2:

Mr. Hartye reported that the Conestee Street Subdivision project included extending approximately 107 linear feet of 8-inch public gravity sewer to serve the seven unit residential development.

Mr. Hartye reported that the 880-888 Patton Avenue project included extending approximately 86 linear feet of 8-inch public gravity sewer to better serve the commercial development.

Mr. Hartye reported the Upstream Way Phase 2 project is located off of Amboy Road and included extending approximately 398 linear feet of 8-inch public gravity sewer to serve this phase of the eleven unit residential development.

Staff recommends acceptance of the aforementioned developer constructed sewer systems. All MSD requirements have been met.

d. Consideration of Required Resolutions to Implement 401(a) Plans:

Mr. Hartye reported that in 1996 and 2001, MSD engaged Valic Retirement Services and Nationwide Insurance to provide "Deferred Compensation" programs to its employees. When these plans were initially set up, based on outside advice, MSD did not pay the FICA on MSD's contributions. In March of 2017 MSD discovered this error and began to work to resolve the issue. An outside Counsel who specializes in Deferred Compensation and Retirement Plans recommended creating 401(a) plans with our current vendors that mirror the 457 plans. The MSD Board is requested to approve the two attached resolutions creating 401(a) Retirement Plans offered by Nationwide Insurance and Valic Retirement Services. Mr. Clarke reported that the error was probably someone relying on an attorney with one of the retirement services giving a verbal telephone opinion for MSD to not pay FICA on these deferred compensation plans. He further stated that MSD discovered this year in conversations with the State Treasurer that it was in fact required. Mr. Capwell with McQuire Woods in Charlotte specializes in this area and helped MSD fix the problem. Mr. Root asked if MSD owed a big lump sum for back pay. Mr. Hemphill stated that MSD has done what the IRS allows, which is go back for the last three years to recover as much as identified and pay them back. Mr. Hemphill stated that it came to approximately \$27,000.00. The IRS will not allow you to go back and fix everything. MSD identified their responsibility in these areas and when the employee cashes out from the plans, Staff works closely with Valic and Nationwide to identify how much is there. MSD will identify what the tax liability is and pay that tax liability. When MSD pays that tax liability, that then becomes a taxable event for the employee. All of the employees involved are aware of this. None of these employees have objected. Total cost over the life of the plan in terms of FICA and tax penalties should be less than \$100,000.00. Mr. Clarke asked how many employees are currently involved? Mr. Hemphill stated that there are 28 total employees over the years that are still active in the plan, 7 are current employees who are active in the plan. Mr. Pelly asked what amount of time that would be spread over? Mr. Hemphill stated 10-25 years but Staff does not see this as a big issue.

e. Cash Commitment/Investment Report Month ended May 31, 2017:

Mr. Hartye reported that there is \$53 Million in the bank and the balance after this year's obligation is \$29 Million, which carries over toward construction for next year. The Investment Portfolio shows no significant change from last month. The Investment Manager's report shows no significant change. The District's Cash Receipts for Monthly and YTD domestic and industrial sewer revenue are in line with the exception of the Development Fees which are "bullish" and continue to be so. Monthly and YTD O&M expenditures are in line with the exception of the Capital Projects which are running a few months behind

on our multi-year project at the plant, which is spread over 3 fiscal years. Mr. Hartye presented the report for the 2008A Series Refunding Bonds which have saved the District's rate payers over \$5 million dollars in debt service since April 2008.

With no further discussion, Mr. VeHaun called for a motion to approve the Consolidated Motion Agenda. Mr. Pelly moved. Mr. Kelly seconded the motion. Roll call vote was as follows: 11 Ayes; 0 Nays.

Mr. Hartye reported that Status Reports are included at the end of the Board packages each month. The MSD System Services In-House Construction Report shows the 20,000 LF of projects completed each year; the Pipeline Maintenance totals show the washing, rodding, cctv'ing and smoke testing performed to meet the 500,000 LF required per year; the Customer Service Requests report shows the average response time for all calls and pointed out that the average response time is 36 minutes during normal working hours and 38 minutes after hours to any call that comes in; the Right of Way Summary shows the status of all open projects in the Right of Way Section; the Capital Improvement Program Summary reports on the larger, contracted out projects; and the Planning & Development Project Report shows the status of all active Planning and Development projects.

10. Old Business:

None

11. New Business:

None

12. Adjournment:

With no further business, Mr. VeHaun called for adjournment at 2:21 pm.

Jackie W. Bryson, Secretary/Treasurer



MEMORANDUM

TO:	MSD Board
FROM:	Thomas E. Hartye, P.E., General Manager

- DATE: August 10, 2017
- SUBJECT: Report from the General Manager
- Kudos
 - Attached is a blurb from Hartwell Carson, French Broad River keeper in the AC-T editorial section regarding the efforts of MSD's System Services folks who provide this type of response 24/7/365.
 - Attached is an email from Ed King regarding MSD's CIP Document.
 - Attached is list of classes for the Collections System Operators School which MSD heads up for the WNC faction of NCAWWA/WEA. Thanks to all who provided such great instruction to further the future of our industry.
- Cane Creek WSD

Attached is a copy of a letter from the Chairman of the Henderson County Board of Commissioners along with a resolution adopted on July 19th. The resolution that was passed by the Henderson County Commissioners expresses their desire to pursue consolidation of the CCWSD with MSD. The process for this to occur is outlined MSD's enabling legislation under GS 162A-68. I have attached a summary of this process. Also attached is a copy of an editorial from the Hendersonville Times News regarding private systems in the Etowah area. Commissioner Bill Lapsley and Henderson County Engineer Marcus Jones would like to address the Board at the meeting.

Board/Committee Meetings/Events

The next Regular Board Meeting will be held on September 20th at 2 pm. The next Right of Way Committee meeting will be held on September 27th at 9am.

OPINIONS

LETTERS POLICY

We invite Letters to the Editor of 200 words or less v Please include your name, mailing address, daytime Mall to: Letters, Asheville Citizen-Times, P.O. Box 20 E-mall: letters@citizen-times.com For Information: Call Casey Blake at 828-232-5841

REPORT CARD

The Report Card issues grades A through F, and incompletes where necessary, to a variety of news items in this space. Got an idea that makes the grade? Email cblake@citizentimes.com

Reader grade

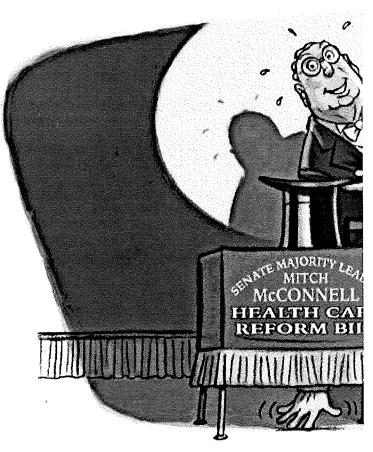
to the Metropolitan Sewer District for taking their responsibility of protecting our river so seriously. Mountain True has been working with MSD for months to find the source of two leaking sewer pipes in the Asheville River District. MSD was always quick to respond, and even stayed on the scene of the second leak until 2 a.m. on a Friday night to make sure the leak was corrected. Most of us don't pay attention to what happens after we flush the toilet, but thanks to MSD that waste rarely makes it into our streams.

Hartwell Carson, Asheville

Staff grades

to the Asheville City Council for putting city-owned land on the tax rolls for affordable housing. The 64-unit complex on Hilliard Avenue will include 20 units for people making 80 percent of the area median income (\$34,350 a year for an individual and \$56,900 for a family of four) and 13 for people making 60 percent of the median (\$25,763 for a single person or \$42,675 for a family of four). The city will give Kassinger Development Group a \$1.3 million 50-year loan plus an incentive grant in the form of cash and waived city fees.

to scammers who manipulate someone's caller ID. "Scammers are spoofing your own number, or one very similar to it, in order to



"HEH, HEH, I KNOW THERE ARE 511

Subject:Buncombe County MSD Capital Improvement Program (CIP) ReportDate:Wednesday, August 2, 2017 at 7:49:13 AM Eastern Daylight TimeFrom:Ed KingTo:Hartye, Tom

Tom,

Good morning.

Earlier this morning I reviewed again MSD's CIP which is published on the website. This was the second or third time I had read it.

I am writing to commend you and each CIP contributor for the communication excellence which is quickly evidenced during the first few minutes reading it.

From a reader's perspective, the CIP answers the basic informative questions who, what, when, where, why, and how much in a format and level of detail which is surprising for a relatively small revenue organization. I have written, read, analyzed, and implemented key aspects of many domestic and international business strategic and tactical plans throughout my career; Buncombe County MSD's CIP reads like a plan which came from a much larger capitalized organization.

Buncombe County MSD's CIP is well crafted and comprehensive; it is an excellent testimonial to the ability of the men and women who developed, optimized, and will implement it in the future.

I continue to be extremely impressed with the professionalism and competence of MSD. If the ratepayers had the experience of living in other parts of the US or internationally, they might have the knowledge which would enable them to understand and fully comprehend how efficiently, reliably, and cost effectively they are served by the staff of MSD compared to many other existing wastewater collection and treatment organizations.

Please relay my appreciation to them for everything they daily do toward achieving MSD's reliable, efficient, cost effective goals. The ratepayers are extremely well served by you and your team.

Regards,

Ed King

COLLECTION SYSTEM OPERATORS SCHOOL GRADE 1 & 2 August 1 – 4, 2017

Tues, August 1	Торіс	Instructor
07:30 - 08:30	Math	Darin Prosser, Shaun Armistead
08:40 - 10:40	Safety	Dan Waugh
10:50 – 11:30	Intro to Centrifugal Pumps	Hunter Carson
11:30 – 12:00	LUNCH	
12:00 - 01:50	Lift Stations	Ken Stines, Hunter Carson,
		Tim Coates
02:00 - 04:00	Pump Station Tours	Ken Stines, Hunter Carson,
		Tim Coates

Wed, August 2	Торіс	Instructor
07:30 - 08:30	Math	Darin Prosser, Shaun Armistead
08:40 - 10:40	Safety	Dan Waugh
10:50 - 11:30	Laws & Regulations	Roger Edwards
11:30 – 12:00	LUNCH	
12:00 - 12:50	Laws & Regulations Cont.	Roger Edwards
12:50 - 02:00	Plant Tour	Roger Edwards
02:00 - 04:00	WWCS Components	Mike Stamey

Thurs, August 3	Торіс	Instructor
07:30 – 08:30	Math	Darin Prosser, Shaun Armistead
08:40 – 10:40	Safety	Dan Waugh
10:50 – 11:30	Collection System Permit	Ken Stines
11:30 – 12:00	LUNCH	
12:00 - 01:30	SSO's	Ken Stines
01:30 - 04:00	Equipment Demo/Maintenance	Ken Stines, Jason Capizzi, Jason Norton

Fri, August 4	Торіс	Instructor
07:30 - 08:30	Math	Darin Prosser, Shaun Armistead
08:40 - 10:40	Safety	Dan Waugh
10:50 - 11:30	Hydraulics	Shaun Armistead
11:30 – 12:00	LÜNCH	
12:00 - 01:50	Map Reading	Kaleena Anderson
	GIS	Corey Smolik
02:00 - 03:45	Construction	Mike Stamey
03:45 - 04:00	Exam Application/Evaluations	Lisa Tolley

HENDERSON COUNTY BOARD OF COMMISSIONERS

1 Historic Courthouse Square, Suite 1 Hendersonville, North Carolina 28792 Phone: 828-697-4808 ● Fax: 828-692-9855 www.hendersoncountync.org

J. MICHAEL EDNEY Chairman GRADY H. HAWKINS Vice-Chairman

CHARLIE D. MESSER THOMAS H. THOMPSON WILLIAM G. LAPSLEY

July 20, 2017

Metropolitan Sewerage District of Buncombe County Mr. M. Jerry Vehoun, Chairperson 2028 Riverside Dr. Asheville, NC 28804

Re: Resolution to Provide for the Inclusion of the Sewer System of the Cane Creek Water and Sewer District into the Metropolitan Sewerage District of Buncombe County.

Dear Mr. Vehoun:

At their regularly scheduled meeting of July 19, 2017, the Board unanimously voted to approve the enclosed Resolution to Provide for the Inclusion of the Sewer System of the Cane Creek Water and Sewer District into the Metropolitan Sewerage District of Buncombe County.

Please accept this as the Board's formal request for inclusion, for the purpose of sanitary sewer service, into the Metropolitan Sewerage District of Buncombe County all the territory included in Henderson County's existing Cane Creek Water and Sewer District.

If you have questions or need any additional information, please contact us at (828) 697-4808.

Sincerely Michael Edney, Chairman

JME/tlw

Enclosures (1)

HENDERSON COUNTY BOARD OF COMMISSIONERS

1 Historic Courthouse Square, Suite 1 Hendersonville, North Carolina 28792 Phone: 828-697-4808 ● Fax: 828-692-9855 www.hendersoncountync.org

J. MICHAEL EDNEY Chairman GRADY HAWKINS Vice-Chairman

CHARLIE MESSER WILLIAM LAPSLEY THOMAS H. THOMPSON

RESOLUTION

TO PROVIDE FOR THE INCLUSION OF THE SEWER SYSTEM OF THE CANE CREEK WATER AND SEWER DISTRICT INTO THE METROPOLITAN SEWERAGE DISTRICT OF BUNCOMBE COUNTY

- WHEREAS, on May 30, 2017, the North Carolina General Assembly enacted Session Law 2017-26, Senate Bill 155, entitled "An Act to Amend the Provisions Regarding Expansion of a Metropolitan Sewerage District and to Make Additional Board Appointments Parallel to the Process to Expand a Metropolitan Water and Sewerage District; and
- WHEREAS, the said Act revises N.C. General Statute §162A-68 to now provide for inclusion of a part of a political subdivision (and not just the whole) into a Metropolitan Sewerage District; and
- WHEREAS, the County's Cane Creek sewer system, limited to the Cane Creek Water and Sewer District, is served for sewage treatment purposes by the Metropolitan Sewerage District of Buncombe County's treatment plant; and
- WHEREAS, inclusion of the Cane Creek sewer system into the Metropolitan Sewerage District of Buncombe County would result in substantially lower fees for customers of the Cane Creek system, while maintaining high levels of service;
- NOW, THEREFORE, BE IT RESOLVED by the Board of Commissioners of Henderson County, North Carolina, that the Board hereby formally requests the inclusion, for the purpose of sanitary sewer service, into the Metropolitan Sewerage District of Buncombe County all the territory included in the County's existing Cane Creek Water and Sewer District.

Adopted this, the 19th day of July, 2017.

Attest:

Teresa L. Wilson, Clerk to the Board

J. Michael Edney, Chairman Henderson County Board of Commissioners

MSD-CCWSD Merger Process Summary

As defined by NCGS 162A-68

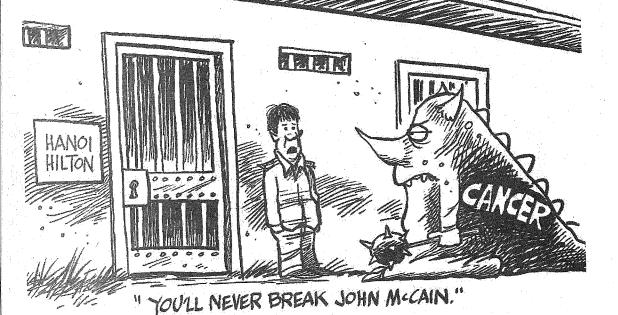
- 1) The Henderson County Commissioners file a resolution with the District Board requesting inclusion of CCWSD into the District.
- 2) The District Board may accept or reject this request. If accepted, then:
- 3) The District Board notifies the Buncombe County and Henderson County Commissioners of the intended action.
- 4) The District Board files a report with both Commissions and the Environmental Management Commission (EMC) describing the process/plans for extending service to the new area.

The report shall include: a) Maps of the District and adjacent territory showing present and proposed boundaries, existing and proposed interceptors.

- b) A statement by the District for extending services into the new area, which addresses:
 - 1) Extension of services into the new territory.
 - 2) A proposed time schedule.
 - Costs of extending service and methods to fund these costs, the amount of outstanding indebtedness of the District, and the valuation of assessable properties within the District and the new territory.
 - 4) A Declaration of Intent of District Board to conform with the plans set forth in the report, and a certification by the District Board Chairman that the "matters and things" in the report are true to his knowledge or belief.
- 5) The Chairmen of the Boards of Commissioners request that a representative from the EMC hold a joint public hearing with the Boards of Commissioners.

The hearing shall be within the District, a 30 day notice shall be posted on the courthouse door of both counties, and noticed in the paper for each of four successive weeks prior to (at least 30 days prior).

- 6) After the hearing and upon favorable opinion by the EMC and the Boards of Commissioners, the EMC adopts a resolution to the same effect. The EMC resolution defines the new boundary and declares that the new area is included within the District.
- 7) Notice of the EMC's resolution shall be published in accordance with NCGS 162A-66.
- 8) New Board members are appointed by the Henderson County Commissioners. In accordance with HB764, three new members will be appointed. They must be qualified voters residing within the new territory.
- Not shown above: 1) Provisions in the statute which allow for voters within CCWSD to petition the District Board for inclusion.
 - 2) Provisions in the statute which allow for a petition signed by 10% of the voters *within the District* to require an election to decide. This must occur prior to (or at) the public hearing.
 - 3) Court actions to set aside a resolution of the EMC.
 - 4) Definitions of new District Board members' term limits.



OUR VIEW

Get costs, input on sewer deal

hy would Henderson County want to get back into the sewer business by taking over a private sewage system in Etowah, just as it is preparing to hand off its Cane Creek Sewer District to a regional authority?

This is one of several questions raised by the Board of Commissioners' unanimous vote Wednesday to block Hendersonville from buying the Etowah Sewer Co. for \$1 million.

The city must seek county approval for any extension of its sewer system as part of a 2000 city/ county agreement that ended a long series of disputes and litigation.

Hendersonville announced a year ago that it had reached an agreement to buy the system and has since gotten approval from the N.C. Utilities Commission as required for the sale to proceed.

At Wednesday's meeting, Commissioner Bill Lapsley gave a detailed presentation on the history of the Etowah sewer system. Lapsley served as a consulting engineer when the system was built 30 years ago. Developers and homebuilders established the privately owned public utility, which now serves 372 residential customers and 42 business customers.

Lapsley says Henderson County has a vested interest in seeing the system continue operation and "allow for growth in the unincorporated part of Etowah." He said the city should not control growth in an unincorporated part of the county, and that Etowah customers would not be able to hold Hendersonville City Council accountable for policies and rates if the city buys the system. He proposed that the county offer to take all of the Etowah Sewer Co.'s assets "at no cost to the county taxpayer."

The city for years has agreed to follow county land-use plans in deciding where to extend utilities. City Manager John Connet says that would not change if the city were to own and operate the system.

The Etowah Sewer Co. asked the city to take over the system a year ago, outlining about \$500,000 in needed repairs. The company estimates it would have to raise monthly fees from \$26.33 to between \$43 and \$45 if it has to make the improvements.

Lapsley's presentation is the latest salvo in a dispute over who will control water and sewer extensions in the county. Commissioners on Wednesday also passed a resolution formally asking that the Cane Creek sewer system be included in the Metropolitan Sewerage District of Buncombe County, a move expected to cut rates by 30 percent for 4,000 customers.

Back in 2000, county leaders happily divested themselves of the moneydraining Mud Creek sewage system, selling it to Hendersonville for \$449,185 in a move that also cut rates.

It's not clear how the county would take over the Etowah system "at no cost to the taxpayers" when the system faces a half-million dollars in needed repairs, and after the city has agreed to pay \$1 million to its owners. If the county plans to turn over the system to MSD, that needs to be disclosed and discussed.

Customers deserve a say, and county taxpayers deserve to know all the costs involved.

Metropolitan Sewerage District of Buncombe County BOARD ACTION ITEM

BOARD MEETING DATE: August 16, 2017

- **SUBMITTED BY:** Tom Hartye, P.E. General Manager
- **PREPARED BY:** Ed Bradford, P.E. Director of Engineering Hunter Carson, P.E. - Project Manager
- **SUBJECT:** Consideration of Equipment Proposals: Sodium Hypochlorite Tank Replacement, MSD Project No. 2017016
- **BACKGROUND:** All wastewater treatment plants are required to disinfect plant effluent prior to discharging treated wastewater to a waterbody. MSD utilizes sodium hypochlorite (aka bleach) for this purpose.

Previously, chlorine gas was utilized for disinfection; however, it is highly toxic and due to its hazardous nature MSD converted to sodium hypochlorite disinfection in 2002. The current system utilizes four tanks, each with a volume of 15,000 gallons.

Sodium hypochlorite is an aggressive chemical, and the tanks used to store it have been repaired multiple times due to slow leaks. They are now past their functional lifespan and must be replaced.

Staff obtained quotes from two regional companies which manufacture chemical storage tanks, as follows:

Manufacturer Proposal Amount with Delivery

1) Southeastern Fiberglass Products\$ 118,000.002) Augusta Fiberglass\$ 94,658.00

The prices above are for four 15,000 gallon tanks, and include delivery to the plant. Removal/disposal of the old tanks and installation of these new tanks will be performed by a contractor. Sufficient funds for the installation work have been included in the FY17-18 project budget.

Please refer to the attached documentation for further details.

- **FISCAL IMPACT:** The FY17-18 Construction Budget for this project is \$183,000.00, which also includes funds for the removal of the old tanks and installation of the new tanks.
- **STAFF RECOMMENDATION:** Staff recommends award of this equipment procurement to Augusta Fiberglass in the amount of \$94,658.00, subject to review and approval by District Counsel.

Interoffice Memorandum

- **TO:** Tom Hartye, General Manager
- **FROM:** Ed Bradford, CIP Manager Hunter Carson, Project Manager
- DATE: August 4, 2017

RE: Sodium Hypochlorite Storage Tank Replacement, MSD Project No. 2017016

Sodium hypochlorite (the active ingredient found in commercial liquid bleach) is used at the Water Reclamation Facility to disinfect treated wastewater prior to leaving the facility. The plant doses sodium hypochlorite at a rate of approximately 60 gal/MG treated wastewater and has four large storage tanks, each with a capacity of 15,000 gallons. Product is delivered to the plant at 12.5% solution and diluted for storage to 6.25% using potable water.

The existing sodium hypochlorite storage tanks were placed into service in 2002 when the plant converted from gaseous chlorine to liquid sodium hypochlorite as its primary disinfectant. The tanks are constructed of fiberglass reinforced plastic (FRP) and have a life expectancy of 10-15 years. Over the past two years, plant staff has periodically observed areas at the base of the tanks that have thinned and begun to seep due to the aggressive nature of sodium hypochlorite. Repairs have been made on site by the manufacturer on several occasions.

Having exceeded the manufacturer's recommended life expectancy and having experienced leakage from the tanks, MSD solicited informal proposals for replacement tanks. Quotes were received from two vendors for four (4) FRP 15,000 gallon tanks suitable for storing 12.5% sodium hypochlorite solution. Proposal amounts were as follows:

Manufacturer Proposal Amount with Delivery

1) Southeastern Fiberglass Products	\$ 118,000.00
2) Augusta Fiberglass	\$ 94,658.00

The FY 17/18 budget amount for this project is \$183,000.00 which also includes removal of the existing tanks and installation of new tanks.

Staff recommends that the District move forward with procurement of four replacement sodium hypochlorite storage tanks contingent upon review and approval by District Counsel.



This is the exterior of the Hypochlorite Facility at the north end of the Treatment Plant.



This is the interior of the facility, showing the Four 15,000 gallon Tanks.





Southeastern Fiberglass Products, Inc.

51 Sweet Pea Road ■ Bamberg, S.C. 29003 ■ PH: (803) 245-4393 ■ www.southeasternfiberglass.com ■

December 15, 2016

Metropolitan Sewer & Water District Asheville, NC

ATTN: Mr. Jay Cormier & Mr. Charles Pertiller 828-768-2077 828-225-8222 jcormier@msdbc.org pertiller@msdbc.org

SUBJECT: MSD-WOODFIN FACILITY ~ REPLACEMENT TANK PRIOR JOB # T-1478 – REV MSD04-2216

QUOTE: **MSD12-0916**

Gentlemen:

SOUTHEASTERN FIBERGLASS PRODUCTS, INC. is pleased to provide this revised quotation for the fabrication of the FRP Equipment. Per industry standards, specifications and information we received by phone call our quotation includes the following listed items.

14,594 GALLONS~ SODIUM HYPOCHLORITE TANK

(4 ea) 12'-0" ID x 17'-9" SSH, flat bottom, dome top
(1 ea) 24" ID Side Manway w/hinged cover
(1 ea) 8" ID 150# flanged nozzles
(1 ea) 4" ID 150# flanged nozzles
(5 ea) 3" ID 150# flanged nozzles
(1 ea) 2" ID 150# flanged nozzles
(4 ea) 1" ID 150# flanged nozzles
(1 ea) Nameplate ~ FRP Encapsulated paper
(1 lot) External Pipe Guide Clips
(1 ea) PVC Clear Tube Level Gauge with ball valve and calibration strip
(2 ea) Hot Dipped Galvanized Lifting Lugs
(8 ea) Hot Dipped Galvanized Hold-down Lugs

PRICE.....\$118,000.00 Delivered

Design Conditions:Atmospheric/ AmbientDesign Pressure/Temp:Atmospheric/ AmbientLiner Resin & Catalyst System:922 w/ BPO/ DMAStructural Resin & Catalyst System:Isophthalic w/ MEKP/ CobaltCorrosion Barrier & Veil:'C' Glass & Nexus veil @ 100 Mil ThicknessGelcoat w/UV Inhibitor:Light Gray

Items included in our offer: Conical gussets on all flanged nozzles 4" and under.

Items excluded from our offer:

All bolting, hardware, pipe guide studs/clamps and gaskets by others.

Add for Manway bolt/gasket sets18-8/EPDM		
Estimated Freight:	(4 ea) Single Escorted LoadsIncluded	
Freight & Handling:	F.O.B. Bamberg, SC ~ Woodfin, NC	
Anticipated Delivery:	Submittals within 2-3 weeks after order receipt Equipment within 8-10 weeks after released submittal with deliveries to commence every 2 weeks after.	
Fabrication Standard:	ASTM D-3299, ASTM-D4097, ASME RTP-1 & NBS PS 15-69	
Quality Shop Tests:	Resin handling/curing per RTP-1¶ 6-910 including Barcol Hardness per ASTM D-2583 (1), Acetone Sensitivity (7), Visual Acceptance per ¶ 6-940 and Table 6-1, Level 2 & Dimensional Checks per RTP- ¶ 6-920.	

GENERAL NOTES:

- 1. Quotes are via sent via e-mail or facsimile, with hard copy upon request.
- 2. Submittal/delivery to be confirmed upon order receipt/written release.
- 3. Exterior pigmentation other than White or Light Gray requires color chip to confirm cost
- 4. SFP Standard warranty is one (1) year from delivery date.
- 5. SFP reserves the right to adjust freight cost for time frame between quote and shipment.
- 6. All calculations based on 2012 IBC. Any other codes must be provided to SFP.
- 7. To insure equipment service life, SFP recommends annual inspection & maintenance.
- 8. Client to insure rigging crew has been provided with and understands SFP's handling and installation instructions prior to handling plastic equipment.

MILESTONE TERMS:

25% with order placement, 25% at submittal, 25% at release for fabrication, 25% upon shipment. Milestones at order and submittal due in 10-15 days, milestones at release and shipment due 30 days from invoice date, no retention. 1%-10 discount is offered. 1.5% Service Charge applied to all past due balances. Standard Terms, Conditions, and Warranties apply and are attached by reference to this quotation. Sales tax is excluded from our offer unless otherwise stated. Price is good for 45 days.

SFP appreciates the opportunity to bid on your FRP requirements.

With kindest regards,

Operations Manager



86 Lake Cynthia Road • Blackville, South Carolina, 29817 • (803) 284-2246 • FX (803) 284-2309 • www.augustafiberglass.com

July 10, 2017

MSD 2028 Riverside Dr. Ashville, NC 28804

ATTENTION: JAY CORMIER E-MAIL: jcormier@msdbc.org

Phone: 828-768-2077

Subject: Quotation AFC REF # 82723 Revision #1 (1702 – 34) HN

AUGUSTA FIBERGLASS® is pleased to furnish this quotation per your request.

DESCRIPTION OF QUOTE:

AFC'S QUOTATION IS CONDITIONED UPON THE ATTACHED AUGUSTA FIBERGLASS COMMERCIAL TERMS AND CONDITIONS.

SCOPE OF WORK:

Four (4) FRP 15,000 Gallon Tanks, 12' I.D. x 17'-9" Straight Shell Height with Flat Bottom, Dome Top.

Fabrication: Hand Lay-up per NBS PS 15-69, Contact Molded per ASTM D 4097-01 and Filament Wound per ASTM D 3299-10

Resin: Derakane 411 or equal

Thickness: Suitable for hydrostatic pressures

Nozzles, etc.:

- 2 1" Flanged Nozzles
- 1 2" Flanged Nozzle
- 5 3" Flanged Nozzles
- 1 4" Flanged Nozzle
- 1 8" Flanged Nozzle
- 1 24" Side Manway (with cover; 316 stainless steel bolting and EPDM gaskets will be provided for this fitting)
- 2 Carbon Steel Galvanized Lifting Lugs
- 8 Carbon Steel Galvanized Hold Down Lugs

PVC Sight Gauge





Price (Each).....\$ 21,630.00 x 4 = \$ 86,520.00

AFC will fabricate items shown above at its Blackville South Carolina facility or its facility in Ocean Springs, Mississippi at Augusta Fiberglass' option.

Estimated Freight to Ashville, NC is \$8,138.00 and subject to change depending on final nozzle orientation and projections.

NOTES:

- 1. All fabrication, inspection and tolerances to be upheld to the referenced above industry standard specifications.
- 2. Design Conditions:

Temperature	Ambient			
Pressure	Atmospheric			
Seismic Zone	Ss: 0.309	S1: 0.108	l: 1.0	Site Class: D
Wind Zone	Indoors			
Snow Load	Indoors			
Specific Gravity	1.3			
Contents	12.5% Sodiu	m Hypochlorite		

TERMS OF PAYMENT: Net 30 days from date of invoice.

- 25% after first submission of shop approval drawing to customer
- · Balance invoiced as items become ready for shipment

A finance charge of 1 ½% per month (18% APR) will be assessed on any balance not paid within 30 days of the invoice date. If it is necessary to place the account into collection proceedings, purchaser shall be responsible for all collection costs including witness's and attorney's fees.

ANY MATERIALS OR FABRICATION NOT LISTED ON OUR QUOTE WILL NOT BE FURNISHED AT THIS PRICE.

PRICE IS F.O.B. POINT OF SHIPMENT

NO TAXES ARE INCLUDED

PRICES WILL BE FIRM FOR 30 DAYS

SCHEDULE:

Drawings: 2 – 3 weeks for approval drawings ARO

Fabrication: 10 – 12 weeks after customer's release of full fabrication drawings

Delivery to be confirmed upon receipt of approved drawings and release for fabrication. Please call if delivery is not acceptable. We will store the completed FRP equipment at our facility for no additional charge for a period of two weeks, after which you will be responsible for a charge of 1 ½% of the purchase order value per month for each FRP equipment which remains in storage. Stored FRP equipment will be invoiced, and payment is required, in accordance with the terms above.



CONTACT INFORMATION:

Thank you for allowing Augusta Fiberglass to provide you with the attached quotation.

If you have any questions or would like to place an order, please call us at 1-800-527-1572. Ask to speak with someone in the sales department and they will assist you in moving your project forward. We are here from 8:00am – 5:00pm (EST), Monday through Friday.

Thanks again and we look forward to hearing from you.

HN/amd



AUGUSTA FIBERGLASS® TERMS AND CONDITIONS

- 1. The prices quoted are expressly conditioned upon the terms and conditions in this document. The terms hereinafter stated supersede all other terms, understandings and customs inconsistent with this document.
 - A. The prices quoted will be effective for a period of thirty (30) days from the date of this quotation. If Augusta Fiberglass (hereinafter "AFC") receives Purchaser's acceptance after the expiration date, the quoted prices, and such acceptance shall only be binding upon AFC by AFC's written confirmation of such prices.
 - B. Prices for undelivered portions of continuing installment orders are subject to change whenever AFC's costs are affected by Federal or State legislation, changes in costs of raw materials and/or labor rates, together with applicable overhead for such costs.
- 2. AFC warrants that the goods provided shall be free of defects in its design (if provided by AFC), material and workmanship for a period of one year from the date of shipment.

THE WARRANTY SET FORTH ABOVE IS THE EXCLUSIVE REMEDY, THE EXCLUSIVE WARRANTY, AND IS IN LIEU OF ALL OTHER WARRANTIES, EXPRESS OR IMPLIED BY LAW OR TRADE USAGE, INCLUDING THE WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. AFC IS NOT LIABLE FOR DEFECTS OR DAMAGE DUE TO NEGLIGENCE (OTHER THAN THAT OF THE SELLER), ACCIDENT, ABUSE, IMPROPER INSTALLATION (OTHER THAT BY AFC) IMPROPER OPERATION, OR MAINTENANCE, OR ABNORMAL CONDITIONS.

AFC SHALL NOT BE LIABLE FOR ANY INCIDENTAL OR CONSEQUENTIAL DAMAGES. AFC'S TOTAL WARRANTY LIABILITY IS LIMITED TO THE REPAIR OR REPLACEMENT OF THE GOODS AT AFC'S DISCRETION. AFC SHALL NOT BE RESPONSIBLE FOR COSTS IN EXCESS OF THE PURCHASE PRICE. THIS WARRANTY SHALL ONLY APPLY TO GOODS LOCATED/USED IN THE CONTINENTAL UNITED STATES.

- 3. AFC shall not be responsible for errors, or defects in the work on account of plans, designs, specifications or drawings furnished by the Purchaser. AFC's quotation is based upon reliance in the accuracy of data supplied by Purchaser.
- 4. AFC will not recognize claims or make allowances for replacement of materials or correction of AFC's error unless AFC is given notice in writing of such defect at least 10 days prior to the Purchaser incurring any cost or expense on account thereof.
- 5. AFC shall not be considered in default in the performance of its obligations hereunder if such performance of its obligations is prevented or delayed by an Act of God, Outbreak of Hostilities, War, Revolution, Civil Commotion, Riot, Epidemic, Wind, Flood, Earthquake, any Law Order, Proclamation, Regulation, or Ordinance of any Government or subdivision of Government, delay in delivery of materials, delay of subcontractors, or any other cause, whether similar or different from those listed, which are beyond the reasonable control of the party affected.
- 6. All goods shall be subject to normal manufacturing variations of Seller and its raw materials supplies such as are recognized in the reinforced plastics industry.
- 7. In the event of a dispute arising from the manufacture, sale, delivery, or performance of a purchase order and any amendments or additions thereto issued pursuant to the attached bid and any amendments or additions thereto, jurisdiction and venue for such dispute is exclusively vested in the Court of Common Pleas, Barnwell County, South Carolina, and construed exclusively in accordance with the laws of the State of South Carolina.
- 8. Quotations and sales are F.O.B. Point of Shipment unless otherwise expressly stipulated.



86 Lake Cynthia Road • Blackville, South Carolina, 29817 • (803) 284-2246 • FX (803) 284-2309 • www.augustafiberglass.com

Augusta Fiberglass has been a world leader in the design, fabrication, and erection of Fiberglass related products since its inception in 1974. We are an industry leader when it comes to quality, precision craftsmanship, and customer service and are one of only nine distinguished **ASME RTP-1 certified fabricators** in the world. Our product and service offerings include:

- Tanks
- Process equipment
- Scrubber Vessels
- Stacks, Stack liners
- Piping and Ductwork
- FRP field fabrication
- Field Services

Our production personnel have the capability to fabricate tanks and other fiberglass vessels of virtually any size or shape to meet your project requirements, either at your plant site or shipped from our facility in Blackville, South Carolina. We also have a sister company, **B&D Plastics**, that specializes in **Dual Laminate Fiberglass** equipment like tanks, scrubber vessels, stacks, pipes and ductwork – located in Ocean Springs, MS. To complement our tank portfolio, we offer industrial grade polyethylene day and storage tanks to complete your storage needs.

Augusta Fiberglass is a full service provider with experienced field engineers and trained field technicians ready to support your projects with the following field services:

- Emergency response service
- Field Fabrication or Installations
- Scheduled and Unscheduled Shutdowns
- Routine Maintenance and General Repairs
- Field Modification



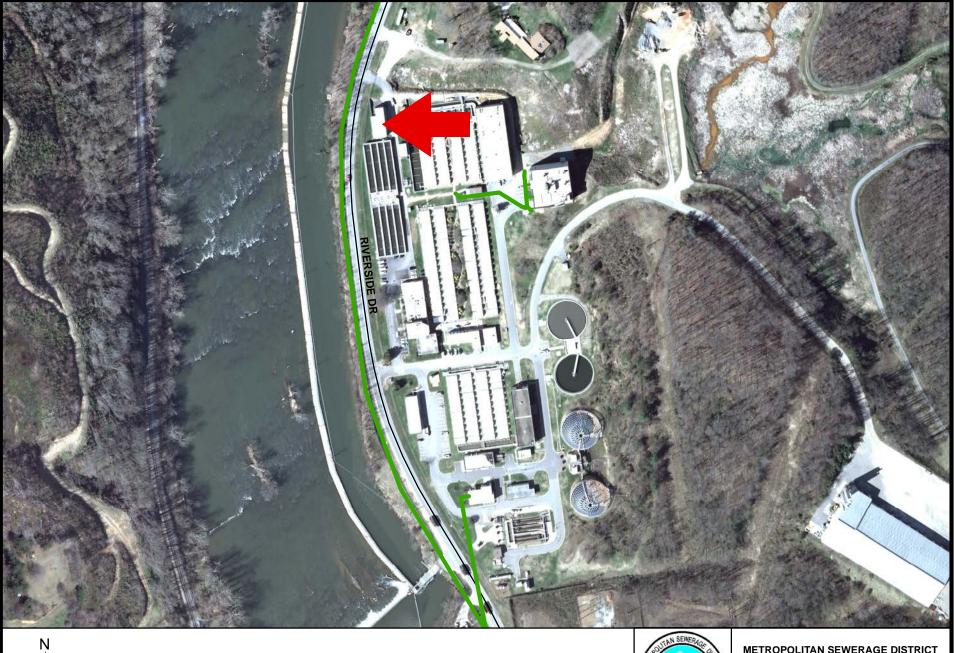


Please visit our web sites at <u>www.augustafiberglass.com</u> and <u>www.bdplastics.com</u> for a complete description of our full line of products and service capabilities. Or contact us directly at 800-527-1572.

Metropolitan Sewerage District of Buncombe County, North Carolina CAPITAL IMPROVEMENT PROGRAM

BUDGET DATA SHEET - FY 2017 - 2018

PROJECT:	Sodium Hypo. Tank Replacement	LOCATION:	MSD-Treatment Plant	
		-		
TYPE:	Treatment Plant	PIPE RATING:	N/A	
PROJECT NO.	2017016	TOTAL LF:	0	
	*402.000.00			
PROJECT BUDGET:	\$183,000.00	PROJECT ORIGIN:	Failing equipment	
DESCRIPTION	ESTIMATED PROJECT COST	TOTAL EXPENDS THRU 12/31/16	EST. COST JAN - JUNE 2017	EST. BUDGET FY 17-18
		<u></u>		
55310 - PRELIM. ENGINEERING				
55320 - SURVEY - DESIGN				
55330 - DESIGN				
55340 - PERMITS				
55350 - SPECIAL STUDIES				
55360 - EASEMENT PLATS				
55370 - LEGAL FEES				
55380 - ACQUISITION SERVICES				
55390 - COMPENSATION				
55400 - APPRAISAL				
55410 - CONDEMNATION				
55420 - CONSTRUCTION	\$183,000.00			\$183,000.00
55430 - CONST. CONTRACT ADM.				
55440 - TESTING				
55450 - SURVEY - ASBUILT				
TOTAL AMOUNT	\$183,000.00	\$0.00	\$0.00	\$183,000.00
			<u>.</u>	
ENGINEER:	MSD	HC		GETS - FY '19 -'27
R.O.W. ACQUISITION:	MSD	# PLATS: [0]	FY 18-19	\$0.00
CONTRACTOR:			FY 19-20	\$0.00
CONSTRUCTION ADM.:	MSD		FY 20-21	\$0.00
INSPECTION:	MSD		FY 21-22	\$0.00
<u></u>			FY 22-23	\$0.00
PROJECT DESCRIPTION: This project	ct is for the replacement of four 14,600-gal	llon sodium hypochlorite	FY 23-24 \$0.00	
storage tanks. Sodium hypochlorite ((i.e. bleach) is used to disinfect the wastew	vater prior to leaving the	e FY 24-25 \$0.0	
plant. The existing tiberglass reinforce their 10 year normal life expectancy.	ed plastic (FRP) storage tanks were installed eaks have developed in two of the tanks, rec	I in 2002 and are beyond quiring multiple repairs.	d FY 25-26 \$0.0	
			FY 26-27	\$0.00
SPECIAL PROJECT NOTES:				





Sodium Hypochlorite Storage Tank Replacement Project No. 2017016



METROPOLITAN SEWERAGE DISTRICT of BUNCOMBE COUNTY, NORTH CAROLINA

NOT TO SCALE

Budget Map

Metropolitan Sewerage District of Buncombe County BOARD ACTION ITEM

BOARD MEETING DATE: August 16, 2017

- **SUBMITTED BY:** Tom Hartye, P.E. General Manager
- **PREPARED BY:** Ed Bradford, P.E. Director of Engineering Hunter Carson, P.E. - Project Manager
- SUBJECT: Consideration of Equipment Proposals: Blower MCC Replacement, MSD Project No. 2017013
- **BACKGROUND:** The Rotating Biological Contactors (RBC's) perform the biological treatment process at the plant. They utilize a large volume of low pressure air, provided by blowers, to make them rotate.

The blowers were replaced in 2008 and continue to function properly. The starters, however, were originally installed in 1988 and are now in need of replacement. The replacement units will be "soft starters" which help reduce both startup current and stress on the motors when they cycle on and off.

Staff obtained quotes from two manufacturers of equipment:

Manufacturer Proposal Amount

1) Rockwell Automation/Allen-Bradley	\$209,872.00
2) Eaton	\$202,000.00

Eaton is a manufacturer of quality equipment; and their equipment is utilized at other locations at the plant. Further, they are a local manufacturer based nearby in Arden, N.C. which is beneficial for service and parts availability.

Funds for the installation work have been included in the FY17-18 project budget.

Please refer to the attached documentation for further details.

- **FISCAL IMPACT:** The FY17-18 Construction Budget for this project is \$375,000.00, which also includes costs for ancillary equipment and installation.
- **STAFF RECOMMENDATION:** Staff recommends award of this equipment procurement to Eaton in the amount of \$202,000.00, subject to review and approval by District Counsel.

Interoffice Memorandum

- **TO:** Tom Hartye, General Manager
- **FROM:** Ed Bradford, CIP Manager Hunter Carson, Project Manager
- **DATE:** August 7, 2017
- **RE:** Blower Building MCC Replacement, MSD Project No. 2017013

Supplying diffused air to the RBCs is perhaps the most important mechanical process at the Water Reclamation Facility. The RBCs are air-driven and rely entirely on diffusers mounted on the bottom of the RBC basins for rotation. Without an air supply, the units would be unable to rotate and the plant's biological process would fail. In addition to supplying air to the RBC air cups, the diffusers create a highly aerobic environment in the wastewater that enables the RBC fixed-film growth to sorb an even greater amount of organic material.

Diffused air is supplied by five large, 450 HP blowers located centrally on the plant campus. The existing motor controllers/starters were installed during the 1988 plant upgrade and are now obsolete, making part replacement difficult. Each blower motor is fed directly from the plant's main switchgear with 2400V power. The existing "across-the-line" motor starters consume an incredible amount of inrush current at start-up (up to 10 times higher than running current) and also produce high torque conditions, both of which create stress on the motor and blower drive shaft.

MSD staff recommend replacing the existing motor controllers/starters with soft-start controllers. These devices reduce the current and torque during starting and accelerate the equipment smoothly, leading to longer service life and reduced stress on the power supply and mechanical equipment.

MSD solicited proposals for five (5) 2400V, 450HP soft starters from two preferred manufacturers. Proposal amounts were as follows:

<u>Manufacturer</u>	Proposal Amount
1) Rockwell Automation/Allen-Bradley	\$209,872.00
2) Eaton	\$202,000.00

The District is familiar with Eaton electrical gear after having installed various units at the Water Reclamation Facility and Carrier Bridge Pump Station. Staff has been very pleased with its performance, parts availability (manufactured in Arden, NC), and technical service response.

The FY 17/18 budget for this project is \$375,000.00 which also includes a new 2400V/480V transformer and 480V power distribution panel (quoted at \$44,500), and installation of all new equipment (quoted at \$109,800).

Staff recommends that the District move forward with the procurement of five Eaton soft-start controllers contingent upon review and approval by District legal counsel.



This picture shows the blowers, which provide large volumes of air to rotate the RBC's.

Rockwell Automation

This Budgetary Estimate has been created for:

MSD of Buncombe County

August 2, 2017

End User: Project Name: Spec No: **Quotation No:**

MSD of Buncombe County Electrical Upgrades N/A **JM1877**

Revision: B

Allen-Bradley



Pricing Summary for MSD of Buncombe County Electrical Upgrades

Quotation No: JM1877 Revision: B

1. Qty (5) 2400V 500hp 200A Bulletin 1562E Reduced Voltage Solid State (RVSS) Starters

- 2. (4) Hours of On-Site Training for (8) People
- 3. (1) Lot Start-Up. Start-Up to be performed during normal business hours, Mon-Fri, not including any weekends, holidays or standby time
- 4. Non-Witnessed Factory Testing at Rockwell's Manufacturing Facility.
- 5. Freight to Site or First Destination within Continental USA

Total for the Above Bill o	\$ 209,872.00 USD	
Optional Adders		
Validity:	180 Days after Quotation Date	
Lead Times: Submittals Shipment	6-8 Weeks after Acceptance of W 14-16 Weeks after Approval to M	
Freight:	FOB Factory, Freight Allowed to	Site or First Destination
Payment Terms:	10% with Approved Submittals, N 90% with Factory Shipment, Net	•

Standby / Holdover Rate (also considered waiting or on-call time):

Applies to non-productive time spent at the customer's request or due to circumstances beyond Rockwell Automation's control due to job site conditions. It will be invoiced at the rate schedule that is applicable for the time of day and day of the service



Information contained in this proposal consists of technical, commercial and/or financial information, which is confidential and proprietary to Rockwell Automation Canada Control Systems ("Rockwell Automation"). This information is furnished to recipient in confidence on the condition that it may not be disclosed to third parties or reproduced or used, in whole or in part, for any purpose other than the evaluation of this proposal. The recipient agrees to return the proposal to Rockwell Automation promptly upon request. Printed 1/24/2016 10:19

2



Detail Bill of Material Project Name: MSD Aeration

Page 1 of 2 Negotiation No: CH820111X7K1

General Order No:

MSD Aeration Blower MV Soft

Alternate No: 0001

em No.	Qty	Product		Description
	1	Medium	Voltage Control	Ampgard Medium Voltage Motor Control, NEMA 3R Non-Walkin, 2400V, 60 Hertz, 1200 Amps Main bus.
			Designation	MVMCC RVSS (DRR) 1-12-17
		Qty	List of Materials	
		7		ameplate Color - Black on White
		1	System BIL is 60k	
		7	Control Wire Marke	
		7	Standard Structure	
		7	NEMA 3R Non-Wa	
		7		A Main Bus, 50ka Bracing
		7	Tin Plated Bus, Co	
		1		or Mtd 26" Wide or Less
		5		Ampgard MV4S Soft Start,NR RO
		5		ce must be <= 700ft 1 cable per phase or 350ft for 2
			cables per phase	
		5	2KVA CPT RVSS	
		5	Control Voltage 12	
		5	Load Cable Entry E	
		5		tart/Stop Push Buttons Control Circuit
		5	MAX Relay	
		5		arranty, startup from an Eaton Certified Specialist is
			required for MV4S	RVSS and is not included in this quote
		5	Starter Isolation Sv	
		5	Current Limiting Po	
		5	Current Transform	ers
		5	3 PHASE PT	
		5	Main Contactor Ro	ıll-In/Roll-Out
		5	Bypass Contactor	Roll-In/Roll-Out
		5	2400V MV4S 400A	ARVSS
		5	Low Voltage Contr	ol Compartment
		5	Set of Control Circ	uit Terminal Blocks
		5	Interposing Relay	3NO 1NC
		5	Interposing Relay 2	
		10	Misc. Indicating Lig	
		5	Reset Pushbutton	
		5	CT SCTB	
		5	Misc 2 Pos Selecto	or Sw
		5	EMR4000 8I/5O 4/	
		5	GFCT 50/5	
		5	Solid State RV Aux	kiliary Cell
		1	600 Ampere LBS S	
		1	Type HLE Fuses&I	
		1	Blank Auxiliary Co	
		1	Total Freight Price	

Item No. Qty 1

Product Panelboards Description 42 Circuits, 600A, Fully Rated, 480Y/277V 3Ph 4W, Tin Plated Copper Bus, 35k AIC, 600A, LGE 3P Main Breaker[Bottom Fed], Surface Mounted

Catalog No P4D600BB42TH01 Designation



Detail Bill of Material

Page 2 of 2 CH820111X7K1 **Negotiation No:**

Project Name:

General Order

MSD Aeration Blower MV Soft Starters

Alternate No: 0001

Qty List of Materials

- 600A, LGE 3P Main Breaker 1
- 2 3P FD Branch Provision Only
- 2 3P KD Branch Space Only
- 200A, 3P FD Branch Breaker 1
- 225A, 3P FD Branch Breaker 1
- 2 100A. 3P FD Branch Breaker
- 2 50A, 3P FD Branch Breaker
- 2 20A, 3P FD Branch Breaker
- Tin-Plated Copper Main Bus, 600 Amps 1
- Std. Bolted Cu Ground Bar (Cu Cable Only) 1

No:

- Painted Box ANSI 61 1
- Panel Nameplate White with Black Letters 1
- Type 1 Enclosure: BX3673P 1
- Standard Covers 1

Item No. Qty Product

1

Description

Dry Type Transformers Transformer Type: Medium Voltage 3 Phase, 500 KVA, 1 K-Factor 2400 Primary Volts 480Y/277 Secondary Volts Temperature Rise 150C with 220C Insulation System **Copper Winding Material** Sound Reduction : 0 NEMA ST-20 Audible Sound Level: 59 Efficiency : DOE 10 CFR Part 431 (2016) Enclosure Type: NEMA 3R **Operating Frequency: 60 HZ**

> Catalog No V42D47T5516CU3R Designation

Qty List of Materials

3 Phase, 500 KVA, 2400 Primary Volts, 480Y/277 Secondary Volts. 150C with 220C Insulation System Temperature Rise, Copper Winding Material, 60 HZ

- CUSTOM: Primary Voltage 1
- 1 CUSTOM: Secondary Voltage
- CUSTOM: Winding Material 1
- 1 CUSTOM: CSA Labeled

Eaton Selling Policy 25-000 applies.

All orders must be released for manufacture within 90 days of date of order entry. If approval drawings are required, drawings must be returned approved for release within 60 days of mailing. If drawings are not returned accordingly, and/or if shipment is delayed for any reason, the price of the order will increase by 1.0% per month or fraction there of for the time the shipment is delayed.

CONSOLIDATED ELECTRICAL DIST.

343 HILLIARD AVE ASHEVILLE NC 28801 USA TEL: (828)252-5313 FAX: (828)252-5363 CONTACT: MAURICE HIGGINS

QUOTE FOR: METROPOLITAN SEWAGE ACCT: Z8-55675 METROPOLITAN SEWAGE

DISTRICT OF BUNC. CO 2028 RIVERSIDE DR ASHEVILLE, NC 28804 TEL:

QUOTAT	ION		PAGE 1	
QUOTE # 1045797	DATE 01/18/2017	REV # 6	REV DATE 01/18/2017	
QUOTE EXPIRES 05/31/201	-	PREPARED BY MH		
SLS 4071		INSLS 0500		
FOB SHIPPING PC	DINT	FREIGHT PREPAID		

CUST PO #					
JOB NAME					
AREATION	BLOWER	MV	SOFT		

LN	QTY	PRODUCT	CODE	DESCRIPTION	PRICE	PER	EXT AMT
01	5	CH	2400V SOFT START	450HP NEMA1 AMPGARD	0.00	Ε	0.00
02	1	CH	LOT QUOTE		202000.00	Ε	202000.00

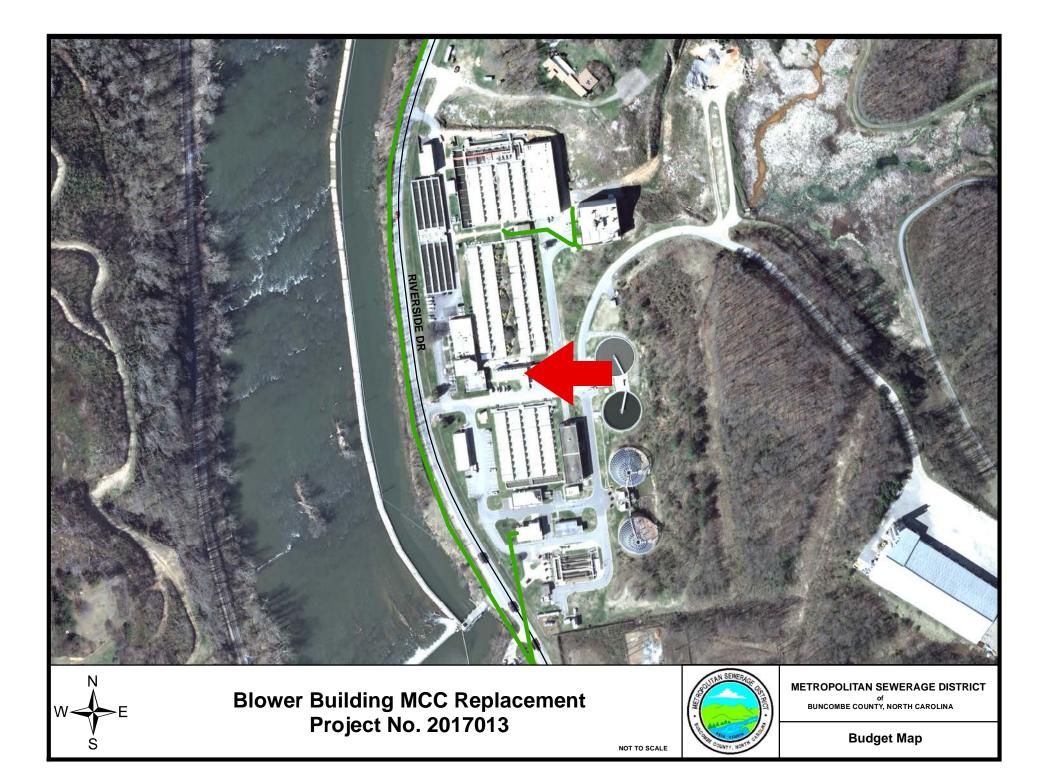
MDSE:	202000.00 *
TAX:	14140.00
TOTAL:	216140.00 **

PLEASE NOTE: This is not an offer to contract, but merely a quotation of current prices for your convenience and information. Orders based on this quotation are subject to your acceptance of the terms and conditions located at sales.our-terms.com, which we may change from time to time without prior notice. We make no representation with respect to compliance with job specifications.

Metropolitan Sewerage District of Buncombe County, North Carolina CAPITAL IMPROVEMENT PROGRAM

BUDGET DATA SHEET - FY 2017 - 2018

PROJECT:	Plawar Pldg, MCC Paplacement	LOCATION:	MSD Treatment Plant	
FROJECT.	Blower Bldg. MCC Replacement	LOCATION:	MSD-Treatment Plant	
ТҮРЕ:	Treatment Plant	PIPE RATING:	N/A	
			-	
PROJECT NO.	2017013	TOTAL LF:	0	
		-		
PROJECT BUDGET:	\$375,000.00	PROJECT ORIGIN:	Obsolete equipment	
DESCRIPTION	ESTIMATED PROJECT COST	TOTAL EXPENDS THRU 12/31/16	EST. COST JAN - JUNE 2017	EST. BUDGET FY 17-18
55310 - PRELIM. ENGINEERING				
55320 - SURVEY - DESIGN				
55330 - DESIGN				
55340 - PERMITS				
55350 - SPECIAL STUDIES				
55360 - EASEMENT PLATS				
55370 - LEGAL FEES				
55380 - ACQUISITION SERVICES				
55390 - COMPENSATION				
55400 - APPRAISAL				
55410 - CONDEMNATION				
55420 - CONSTRUCTION	\$375,000.00			\$375,000.00
55430 - CONST. CONTRACT ADM.				
55440 - TESTING				
55450 - SURVEY - ASBUILT				
TOTAL AMOUNT	\$375,000.00	\$0.00	\$0.00	\$375,000.00
			1	
ENGINEER:	MSD	HC		GETS - FY '19 -'27
R.O.W. ACQUISITION:	MSD	# PLATS: [0]	FY 18-19	\$0.00
CONTRACTOR:			FY 19-20	\$0.00
CONSTRUCTION ADM.:	MSD		FY 20-21	\$0.00
INSPECTION:	MSD		FY 21-22	\$0.00
			FY 22-23	\$0.00
PROJECT DESCRIPTION: This project	is for the replacement of five existing RBC b	blower motor starters. The	FY 23-24	\$0.00
existing motor starters were installed a	ow obsolete, making parts	FY 24-25	\$0.00	
replacement difficult. The starters control the RBC motor blowers which in turn provide air to the RBC units, FY 25-26				
be able to meet its permitted effluent limits. FY 26-27				
SPECIAL PROJECT NOTES:				



Metropolitan Sewerage District of Buncombe County BOARD ACTION ITEM

BOARD MEETING DATE: August 16, 2017

- SUBMITTED BY: Tom Hartye, P.E. General Manager
- **PREPARED BY:** Ed Bradford, P.E. Director of Engineering Darin Prosser, P.E. - Project Manager
- **SUBJECT:** Consideration of Bids: Hendersonville Road @ Peachtree Road Sanitary Sewer Rehabilitation Project, MSD Project No. 2012135
- **BACKGROUND:** This project is located in South Asheville along Hendersonville Road, in front of the Walmart store.

It consists of replacing a problematic six-inch clay line in poor condition and a six-inch DIP road crossing, both of which are undersized for current flows. The new line is comprised of 1,150 LF of 8-inch DIP, installed by dig & replace.

The contract was informally advertised and two bids were received on July 27, 2017 in the following amounts:

Contractor Bid Amount

1) Thomas Construction Co.\$486,400.002) Terry Brothers Construction Co.\$449,062.00

The apparent low bidder is Terry Brothers Construction Co. with a bid amount of \$449,062.00. This amount is \$114,062.00 over the FY17-18 construction budget of \$335,000.00.

As allowed by NCGS 143-129(b) staff contacted Terry Brothers to see if there were any areas to reduce costs. A significant factor for the overage is that NCDOT is requiring the project to be constructed entirely during nighttime hours, and is also requiring a certified traffic control contractor to perform the traffic control - at a reported cost of \$1,500 per day.

Terry Brothers did offer to lower the per-foot pipe cost by \$20, which amounts to a net bid reduction of \$23,000.00. Terry Brothers' reduced bid is therefore **\$426,062.00**. In addition, the Louisianna @ Brucemont project (awarded at the July 2017 Board meeting) was \$186,000 under budget - \$130,000 of which was transferred to the Contingency Fund.

Terry Brothers has completed numerous MSD sewer rehabilitation projects, and their work quality continues to be excellent on work performed for the District.

Please refer to the attached documentation for further details.

- **FISCAL IMPACT:** The FY17-18 Construction Budget for this project is \$335,000.00. There are sufficient funds in the CIP Contingency for the overage of \$91,062.00.
- **STAFF RECOMMENDATION:** Staff recommends award of this contract to Terry Brothers Construction Co. in the amount of \$426,062.00, subject to review and approval by District Counsel.

METROPOLITAN SEWERAGE DISTRICT OF BUNCOMBE COUNTY, NORTH CAROLINA

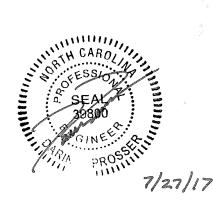
Hendersonville Road @ Peachtree Road Project No. 2012135

BID TABULATION July 27, 2017

BIDDER	MBE Form	Bid Forms (Proposal)	
Thomas Construction Company			
Johnson City, TN	1	Yes	\$486,400.00
Terry Brothers Construction Company Leicester, NC	1	Yes	\$449,062.00

APPARENT LOW BIDDER

Darin Prosser, P.E. Project Engineer Metropolitan Sewerage District of Buncombe County, North Carolina



This is to certify that the bids tabulated herein were publicly opened and read aloud at 2:00 p.m. on the 27th day of July, 2017, in the W.H. Mull Building at the Metropolitan Sewerage District of Buncombe County, Asheville, North Carolina. This was an informal bid and no bid bonds were required.

Interoffice Memorandum

- **TO:** Tom Hartye, General Manager
- **FROM:** Ed Bradford, CIP Manager Darin Prosser, Project Manager
- **DATE:** July 31, 2017
- **RE:** Hendersonville Road @ Peachtree Road Sewer Rehabilitation, MSD Project No. 2012135

The Hendersonville Road @ Peachtree Road Sewer Rehabilitation project is located in South Asheville along Hendersonville Road. This project begins with connecting to an existing manhole at Peachtree Road, runs along the outer northbound lane of Hendersonville Road, and then crosses Hendersonville Road to reconnect to an existing system at the Racquet Club Condominium development.

This project consists of the rehabilitation of existing 6" VCP and 6" DIP sewer lines that are in poor condition and undersized. Approximately 1,150 LF of 8" DIP will be installed by dig and replace construction. The existing lines for this project have a Pipe Rating of 56 due to the under sizing and poor condition of the clay pipes.

On July 27, 2017, two (2) bids were received at 2:00 pm. Results were as follows:

<u>Contractor</u>	Bid Amount
1) Thomas Construction Company	\$486,400.00
2) Terry Brothers Construction Co., Inc.	\$449,062.00

The apparent low bidder is Terry Brothers Construction Co., Inc. with a bid amount of \$449,062.00. The FY17-18 construction budget for this project is \$335,000. The bid exceeds budgeted funds due to NCDOT requiring night construction and requiring a Certified Traffic Control Contractor (reportedly \$1,500/day) for lane closures.

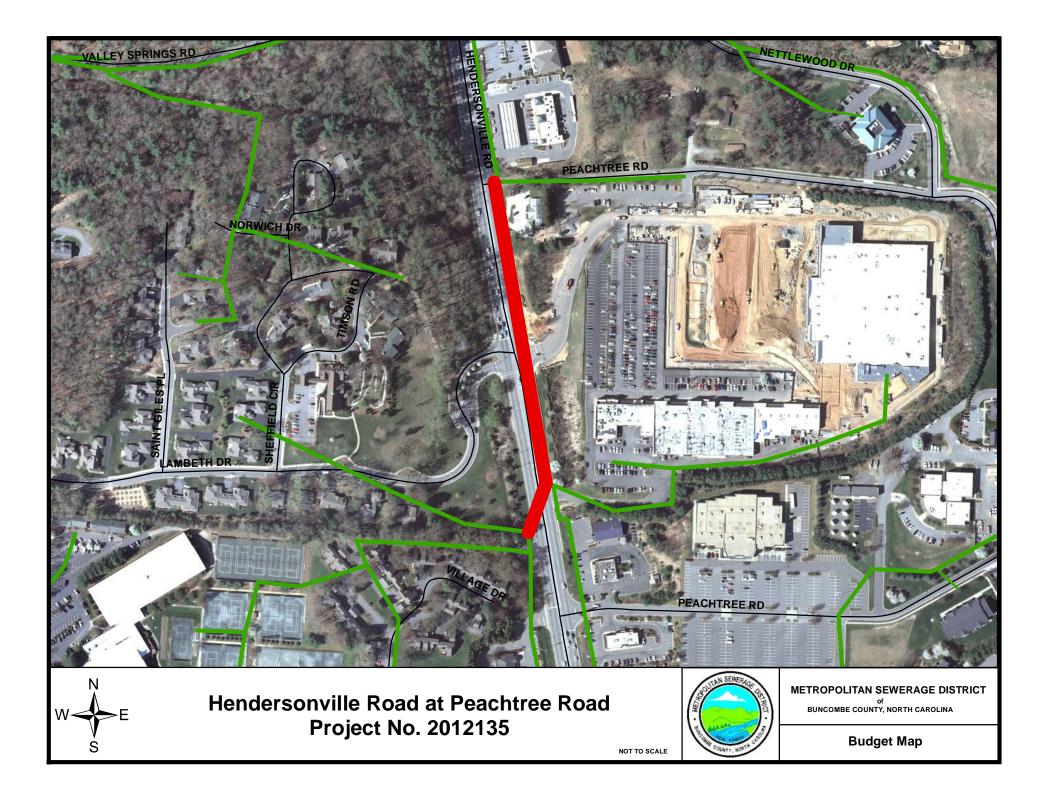
With the bid exceeding the budget by approximately \$114,000, negotiations with Terry Brothers brought down the construction of 8-inch DIP by \$20 to a unit price of \$200/LF. This reduces the bid \$23,000 to a new bid total of \$426,062.

Terry Brothers Construction Co. has an extensive history completing District rehabilitation and replacement projects with excellent workmanship and quality. Staff recommends award of this contract to Terry Brothers Construction Co., Inc. contingent upon review and approval by District Counsel.

Metropolitan Sewerage District of Buncombe County, North Carolina CAPITAL IMPROVEMENT PROGRAM

BUDGET DATA SHEET - FY 2017 - 2018

PROJECT:	Hendersonville Rd. @ Peachtree Rd.	LOCATION:	S. Asheville	
PROJECT:	nendersonvine ku. @ reachtree ku.	LOCATION.	5. Ashevine	
ТҮРЕ:	General Sewer Rehab.	PIPE RATING:	56	
PROJECT NO.	2012135	TOTAL LF:	1,100	
PROJECT BUDGET:	\$353,450.00	PROJECT ORIGIN:	SSO's; Work orders; Lin	e condition
		1	1	
DESCRIPTION	ESTIMATED PROJECT COST	TOTAL EXPENDS THRU 12/31/16	EST. COST JAN - JUNE 2017	BUDGET FY 17-18
		Di .		
55310 - PRELIM. ENGINEERING				
55320 - SURVEY - DESIGN	\$7,200.00	\$2,360.00	\$4,840.00	
55330 - DESIGN				
55340 - PERMITS				
55350 - SPECIAL STUDIES				
55360 - EASEMENT PLATS	\$750.00			\$750.0
55370 - LEGAL FEES	\$2,000.00			\$2,000.0
55380 - ACQUISITION SERVICES				
55390 - COMPENSATION	\$5,000.00			\$5,000.0
55400 - APPRAISAL				
55410 - CONDEMNATION				
55420 - CONSTRUCTION	\$335,000.00			\$335,000.0
55430 - CONST. CONTRACT ADM.				
55440 - TESTING	\$1,000.00			\$1,000.0
55450 - SURVEY - ASBUILT	\$2,500.00			\$2,500.0
TOTAL AMOUNT	\$353,450.00	\$2,360.00	\$4,840.00	\$346,250.0
				-
ENGINEER:	MSD	DP	ESTIMATED BUDO	GETS - FY '19 -'27
R.O.W. ACQUISITION:	MSD	# PLATS: [1]	FY 18-19	\$0.0
CONTRACTOR:			FY 19-20	\$0.0
CONSTRUCTION ADM:	MSD		FY 20-21	\$0.0
INSPECTION:	MSD		FY 21-22	\$0.0
			FY 22-23	\$0.0
			FY 23-24	\$0.0
PROJECT DESCRIPTION: This pro Rd. (US 25 South) between Peacht	pject will replace an existing 6-inch vitrified cl ree Rd, and the Racquet Club Village Cond	ay line in Hendersonville	FY 24-25	\$0.0
Rd. (US 25 South) between Peachtree Rd. and the Racquet Club Village Condo development. The line condition is very poor.				
condition is very poor.				\$0.0



Board Action Item

BOARD MEETING DATE: August 16, 2017

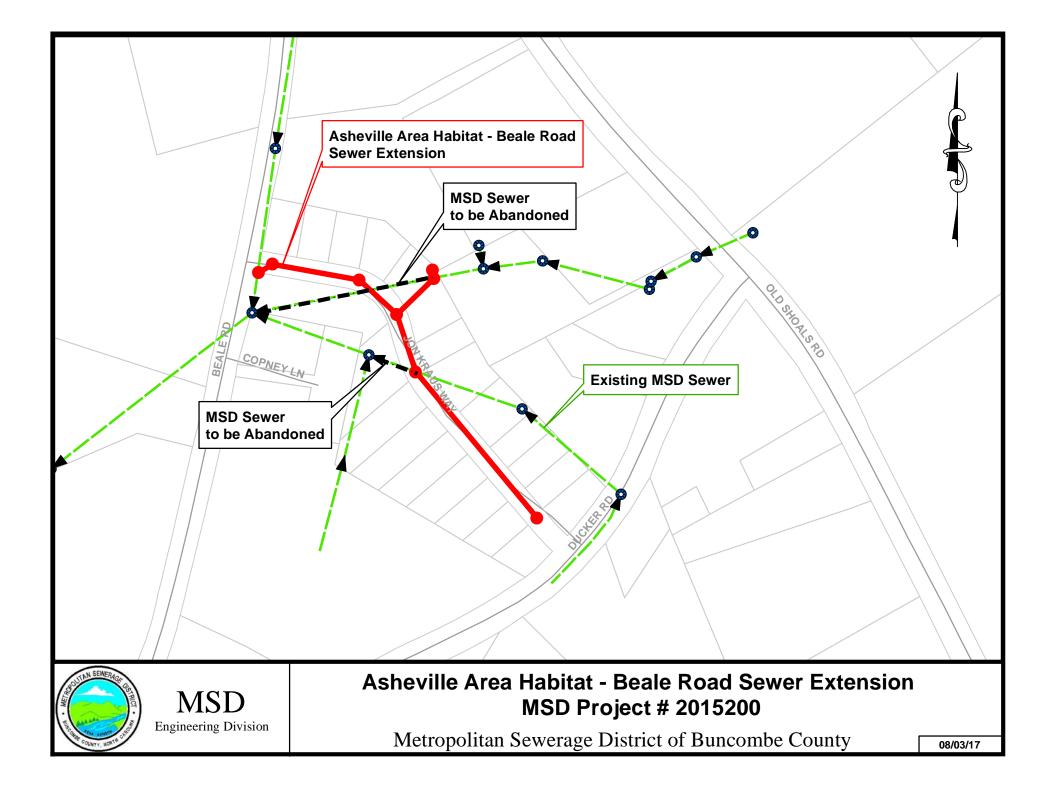
SUBMITTED BY: Tom Hartye, P.E. - General Manager

- **REVIEWED BY:** Ed Bradford, P.E. Engineering Director
- **PREPARED BY:** Kevin Johnson, P.E. Planning & Development Manager
- SUBJECT: Acceptance of Developer Constructed Sewer System for Asheville Area Habitat for Humanity – Beale Road Subdivision, MSD Project No. 2015200
- **BACKGROUND:** This project is located inside the District boundary along Beale Road in Buncombe County. The developer for this project is Paul Reeves of Asheville Area Habitat for Humanity.

The project included relocating approximately 292 linear feet of public sewer and abandoning approximately 420 linear feet of public gravity sewer. In addition, a public sewer extension of approximately 463 linear feet of 8-inch gravity sewer was constructed to serve the development.

A wastewater allocation was issued in the amount of 6,300 GPD for the twenty-one (21) unit single-family residential development. The estimated cost of the sewer construction is \$68,957.29.

All MSD requirements have been met.



Board Action Item

BOARD MEETING DATE: August 16, 2017

SUBMITTED BY: Tom Hartye, P.E. - General Manager

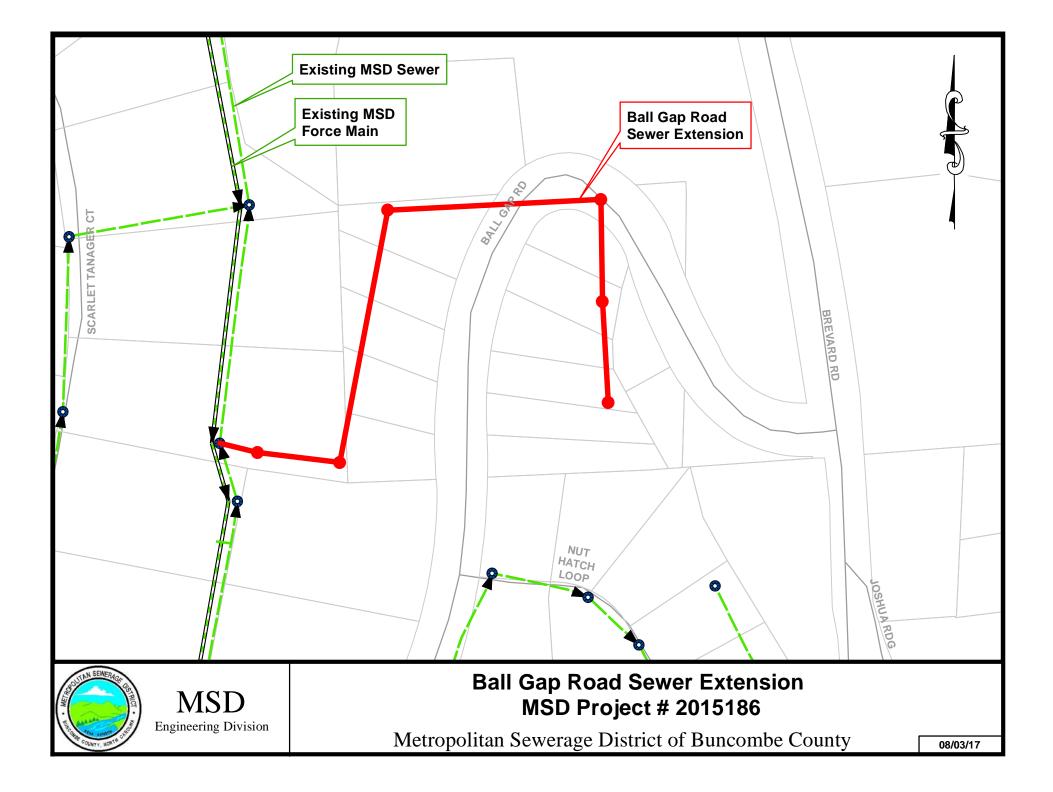
REVIEWED BY: Ed Bradford, P.E. - Engineering Director

- **PREPARED BY:** Kevin Johnson, P.E. Planning & Development Manager
- **SUBJECT:** Acceptance of Developer Constructed Sewer System for the Ball Gap Road Subdivision, MSD Project No. 2015186
- **BACKGROUND:** This project is located inside the District boundary along Ball Gap Road in Buncombe County. The developer for this project is Chris Eller of Cane Creek Vistas, LLC.

The project included extending approximately 951 linear feet of 8-inch public gravity sewer to serve the development.

A wastewater allocation was issued in the amount of 4,200 GPD for the fourteen (14) unit single-family residential development. The estimated cost of the sewer construction is \$100,000.00.

All MSD requirements have been met.



Board Action Item

BOARD MEETING DATE: August 16, 2017

SUBMITTED BY: Tom Hartye, P.E. - General Manager

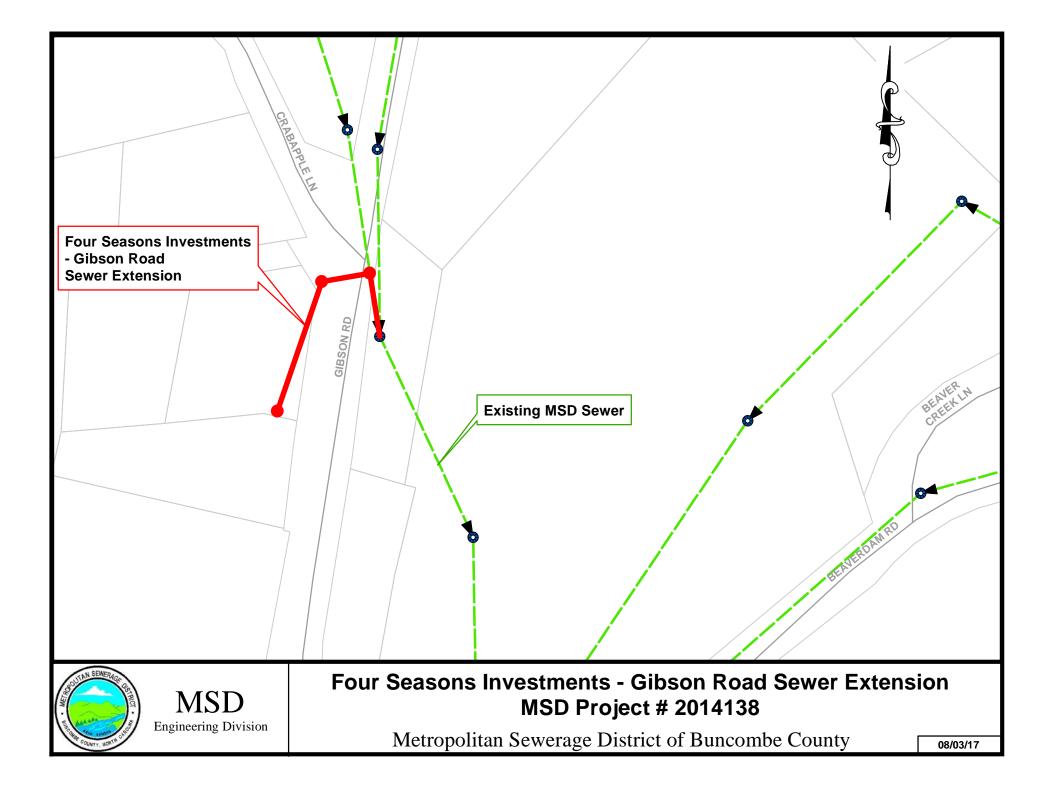
REVIEWED BY: Ed Bradford, P.E. - Engineering Director

- **PREPARED BY:** Kevin Johnson, P.E. Planning & Development Manager
- **SUBJECT:** Acceptance of Developer Constructed Sewer System for the Four Seasons Investments – Gibson Road Subdivision, MSD Project No. 2014138
- **BACKGROUND:** This project is located inside the District boundary along Gibson Road in the City of Asheville. The developer for this project is Harry Giezentanner of Four Seasons Investment Properties, LLC.

The project included extending approximately 135 linear feet of 8-inch public gravity sewer to serve the development.

A wastewater allocation was issued in the amount of 900 GPD for the three (3) unit single-family residential development. The estimated cost of the sewer construction is \$23,072.00.

All MSD requirements have been met.



Board Action Item

BOARD MEETING DATE: August 16, 2017

SUBMITTED BY: Tom Hartye, P.E. - General Manager

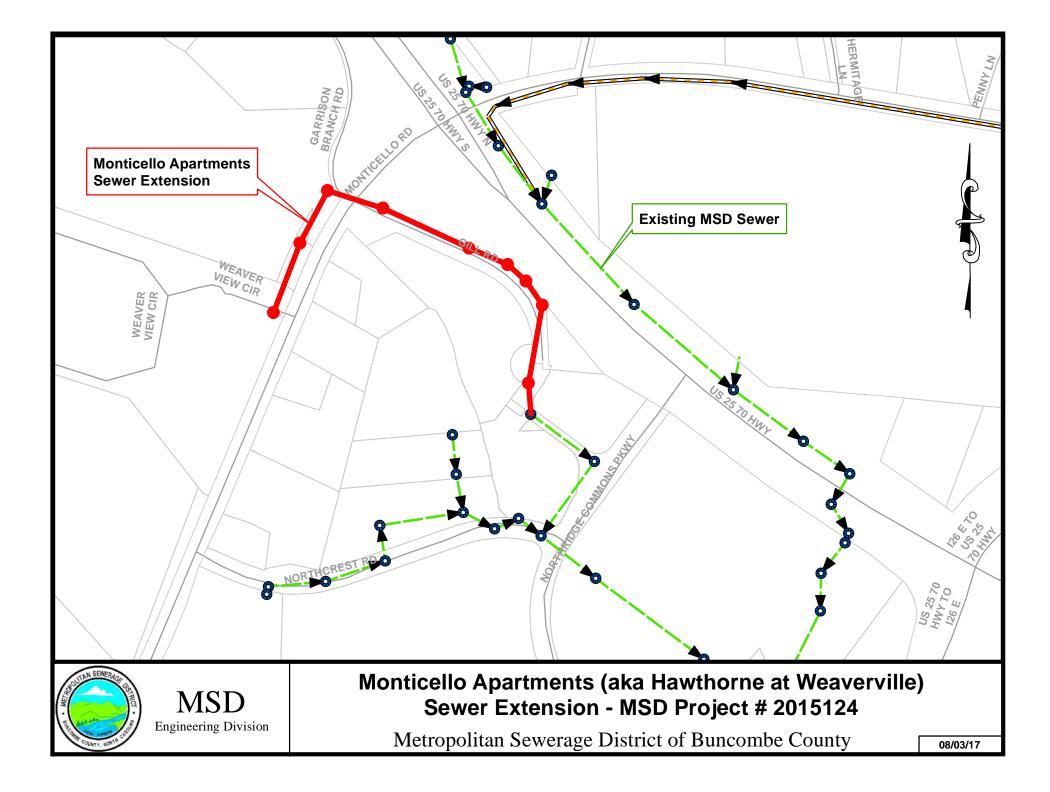
REVIEWED BY: Ed Bradford, P.E. - Engineering Director

- **PREPARED BY:** Kevin Johnson, P.E. Planning & Development Manager
- SUBJECT: Acceptance of Developer Constructed Sewer System for the Monticello Apartments (aka Hawthorne at Weaverville) Development, MSD Project No. 2015124
- **BACKGROUND:** This project is located inside the District boundary along Monticello Road in the Town of Weaverville. The developer for this project is Mark Reynolds of Weaverville Apartments, LLC.

The project included extending approximately 1,495 linear feet of 8-inch public gravity sewer to serve the development.

A wastewater allocation was issued in the amount of 30,000 GPD for the 168 unit apartment complex. The estimated cost of the sewer construction is \$200,000.00.

All MSD requirements have been met.



Board Action Item

BOARD MEETING DATE: August 16, 2017

SUBMITTED BY: Tom Hartye, P.E. - General Manager

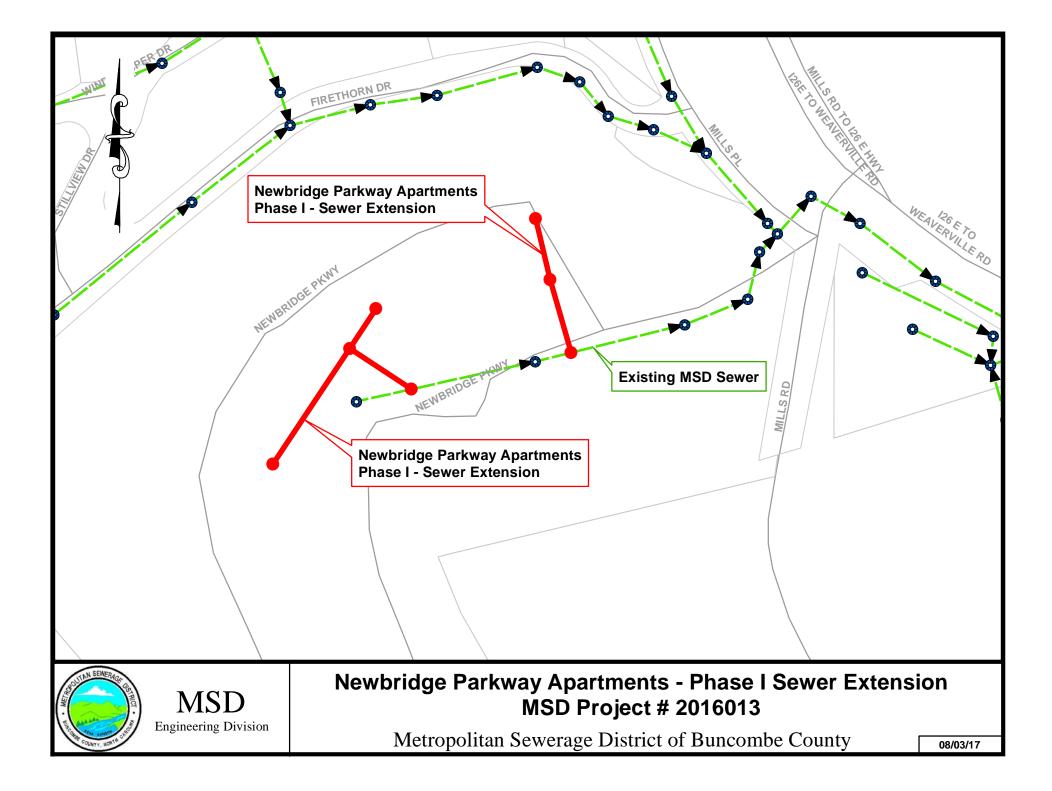
REVIEWED BY: Ed Bradford, P.E. - Engineering Director

- **PREPARED BY:** Kevin Johnson, P.E. Planning & Development Manager
- **SUBJECT:** Acceptance of Developer Constructed Sewer System for the Newbridge Parkway Apartments – Phase 1, MSD Project No. 2016013
- **BACKGROUND:** This project is located inside the District boundary off Mills Road in the Town of Woodfin. The developer for this project is Alex Rodriguez of RDA Holdings 10 Newbridge Pkway, LLC.

The project included extending approximately 598 linear feet of 8-inch public gravity sewer to serve the first phase of the development.

A wastewater allocation was issued in the amount of 34,100 GPD for the 154 units in the first phase of the apartment complex. The estimated cost of the sewer construction is \$73,000.00.

All MSD requirements have been met.



Board Action Item

BOARD MEETING DATE: August 16, 2017

SUBMITTED BY: Tom Hartye, P.E. - General Manager

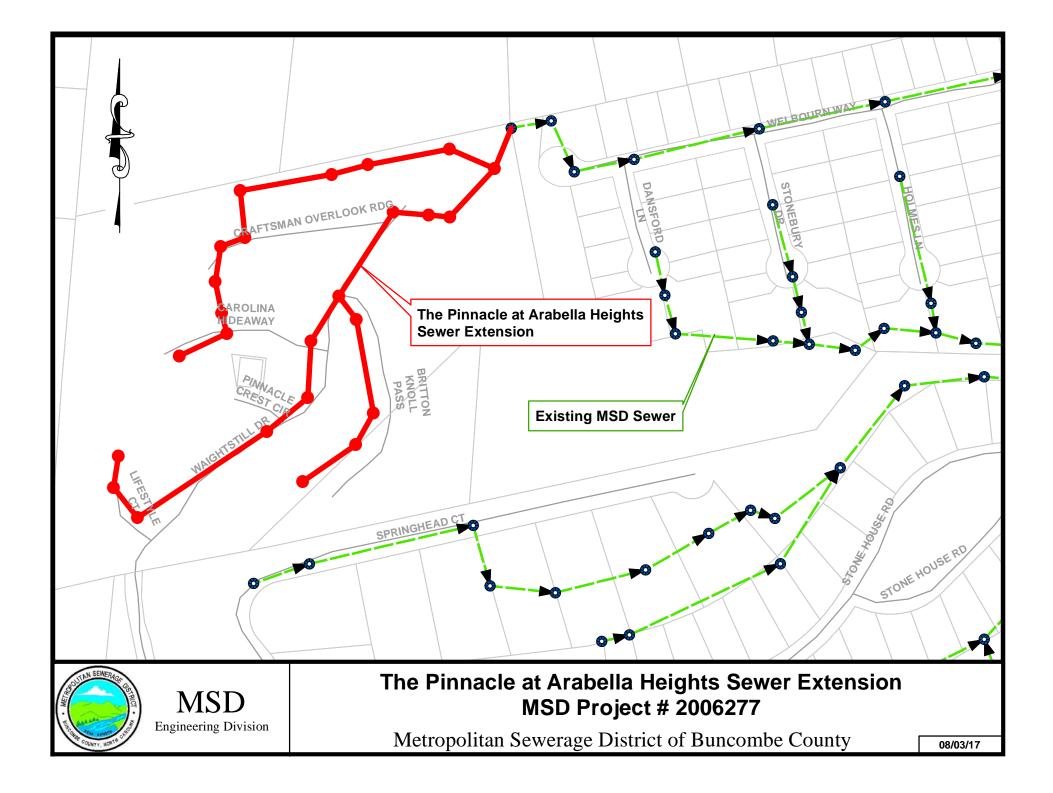
REVIEWED BY: Ed Bradford, P.E. - Engineering Director

- **PREPARED BY:** Kevin Johnson, P.E. Planning & Development Manager
- **SUBJECT:** Acceptance of Developer Constructed Sewer System for the Pinnacle at Arabella Heights, MSD Project No. 2006277
- **BACKGROUND:** This project is located inside the District boundary off Ledbetter Road in Buncombe County. The developer for this project is Bruce Alexander of Lifestyle Homes of Distinction, LLC.

The project included extending approximately 3,907 linear feet of 8-inch public gravity sewer to serve the new development.

A wastewater allocation was issued in the amount of 19,800 GPD for the sixty-five (65) unit residential development. The estimated cost of the sewer construction is \$99,000.00.

All MSD requirements have been met.



Board Action Item

BOARD MEETING DATE: August 16, 2017

SUBMITTED BY: Tom Hartye, P.E. - General Manager

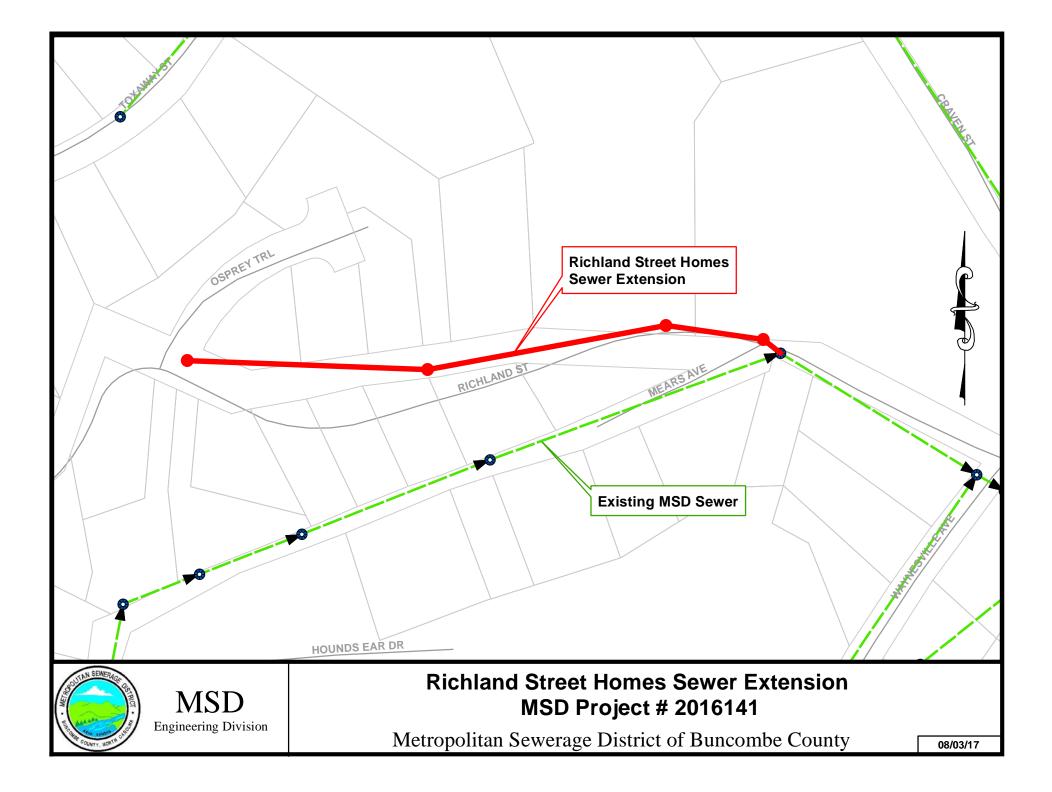
REVIEWED BY: Ed Bradford, P.E. - Engineering Director

- **PREPARED BY:** Kevin Johnson, P.E. Planning & Development Manager
- **SUBJECT:** Acceptance of Developer Constructed Sewer System for the Richland Street Homes, MSD Project No. 2016141
- **BACKGROUND:** This project is located inside the District boundary off Richland Street in the City of Asheville. The developer for this project is Bobby McHugh of McHugh Designs.

The project included extending approximately 520 linear feet of 8-inch public gravity sewer to serve the new development.

A wastewater allocation was issued in the amount of 2,000 GPD for the five (5) unit single-family residential development. The estimated cost of the sewer construction is \$44,000.00.

All MSD requirements have been met.



Board Action Item

BOARD MEETING DATE: August 16, 2017

SUBMITTED BY: Tom Hartye, P.E. - General Manager

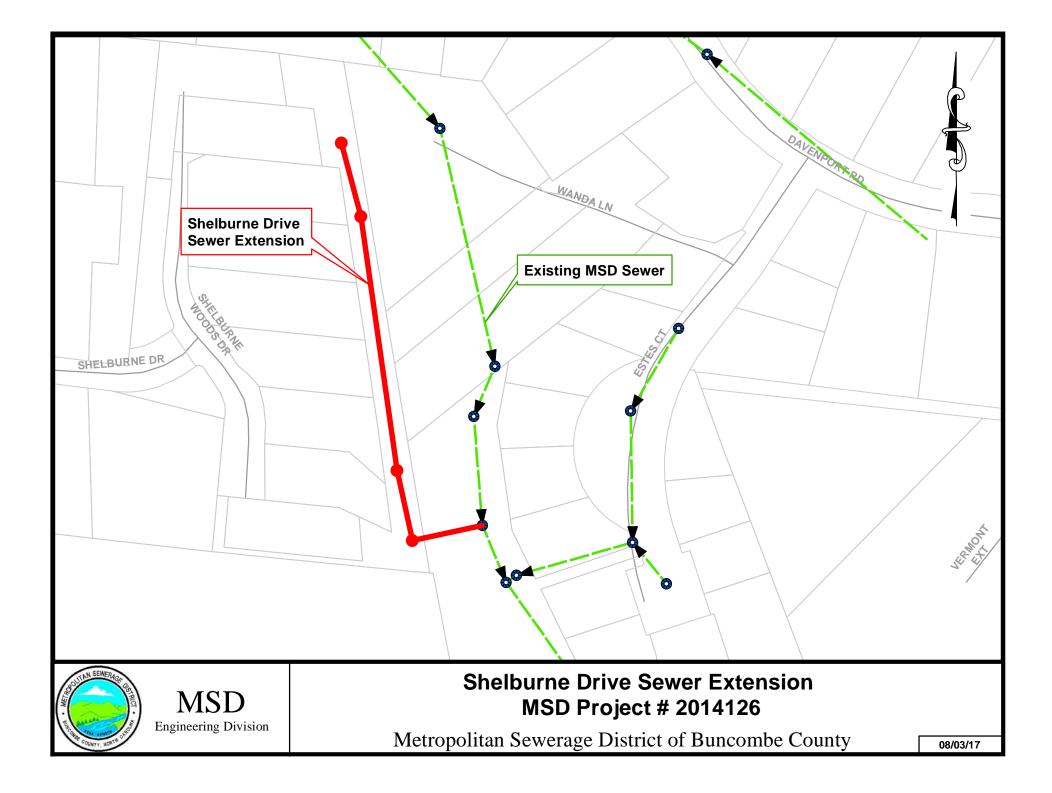
REVIEWED BY: Ed Bradford, P.E. - Engineering Director

- **PREPARED BY:** Kevin Johnson, P.E. Planning & Development Manager
- **SUBJECT:** Acceptance of Developer Constructed Sewer System for the Shelburne Drive Subdivision, MSD Project No. 2014126
- **BACKGROUND:** This project is located inside the District boundary at Shelburne Road and Sand Hill Road in the City of Asheville. The developer for this project is Emily Boyd of Mountain Sun Building and Design, LLC.

The project included extending approximately 420 linear feet of 8-inch public gravity sewer to serve the new development.

A wastewater allocation was issued in the amount of 2,700 GPD for the nine (9) unit single-family residential development. The estimated cost of the sewer construction is \$49,000.00.

All MSD requirements have been met.



Board Action Item

BOARD MEETING DATE: August 16, 2017

SUBMITTED BY: Tom Hartye, P.E. - General Manager

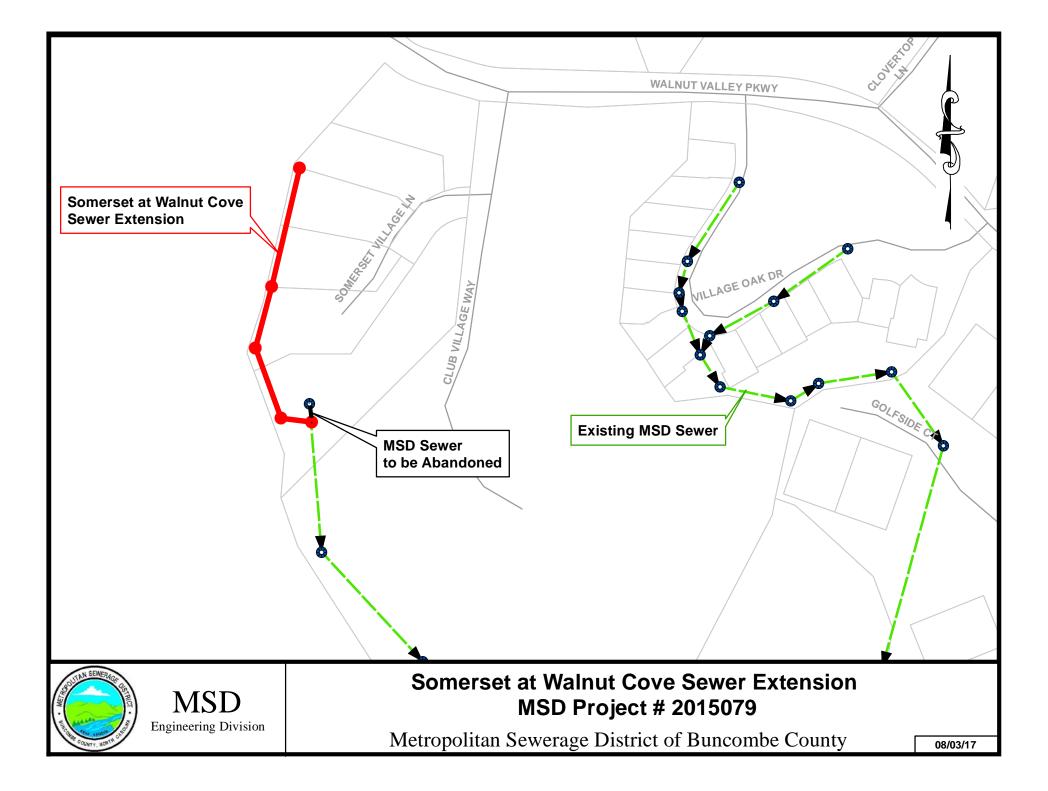
REVIEWED BY: Ed Bradford, P.E. - Engineering Director

- **PREPARED BY:** Kevin Johnson, P.E. Planning & Development Manager
- **SUBJECT:** Acceptance of Developer Constructed Sewer System for the Somerset at Walnut Cove, MSD Project No. 2015079
- **BACKGROUND:** This project is located outside the District boundary off Walnut Valley Parkway in Buncombe County. The developer for this project is Denis Beaulieu of Somerset WC, LLC.

The project included extending approximately 432 linear feet of 8-inch public gravity sewer to serve the new development.

A wastewater allocation was issued in the amount of 2,000 GPD for the five (5) unit single-family residential development. The estimated cost of the sewer construction is \$40,200.00.

All MSD requirements have been met.



Board Action Item

BOARD MEETING DATE: August 16, 2017

SUBMITTED BY: Tom Hartye, P.E. - General Manager

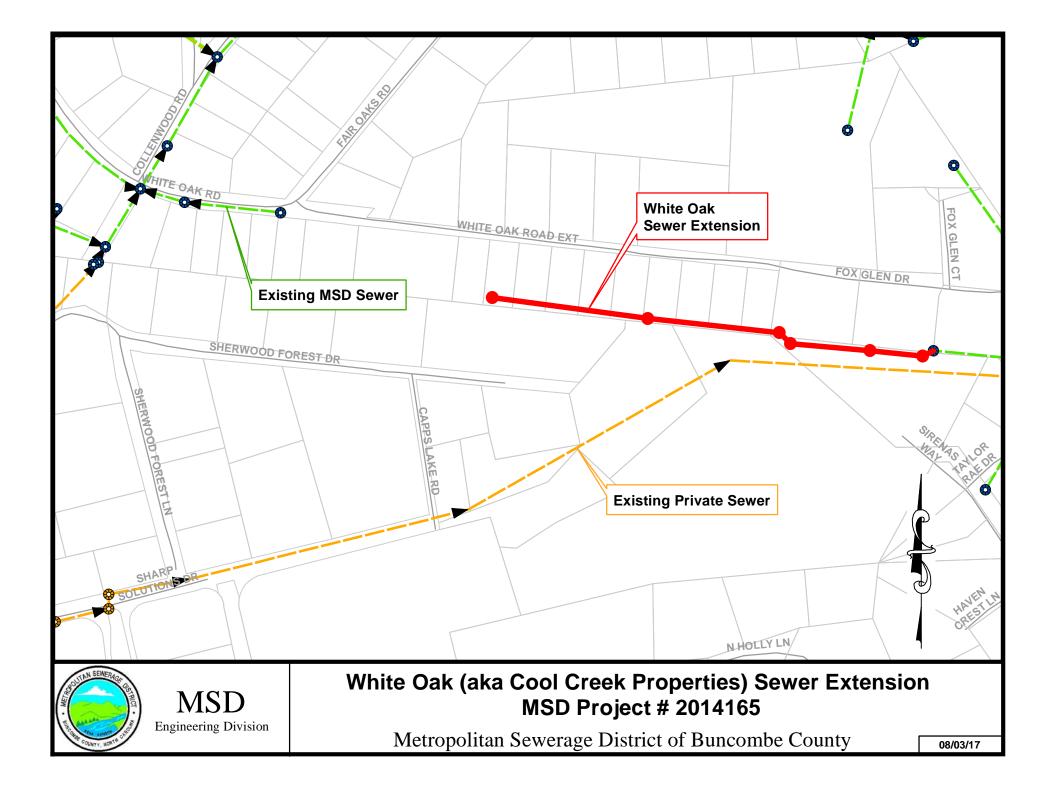
REVIEWED BY: Ed Bradford, P.E. - Engineering Director

- PREPARED BY: Kevin Johnson, P.E. Planning & Development Manager
- SUBJECT: Acceptance of Developer Constructed Sewer System for the White Oak Subdivision (aka Cool Creek Properties), MSD Project No. 2014165
- **BACKGROUND:** This project is located inside the District boundary off Fox Glen Drive in Buncombe County. The developer for this project is Billy Taylor of Cool Creek Properties, LLC.

The project included extending approximately 1,020 linear feet of 8-inch public gravity sewer to serve the new development.

A wastewater allocation was issued in the amount of 3,000 GPD for the ten (10) unit single-family residential development. The estimated cost of the sewer construction is \$68,000.00.

All MSD requirements have been met.



Metropolitan Sewerage District of Buncombe County BOARD ACTION ITEM

Meeting Date:	August 16, 2017
Submitted By:	Thomas E. Hartye, PE., General Manager
Prepared By:	W. Scott Powell, CLGFO, Director of Finance
Subject:	Reimbursement Resolution for Bond Projects

Background

To be in compliance with IRS regulations concerning tax-exempt financing, all expenditures made with non-MSD bonds funds and to be reimbursed from MSD bond funds must be properly identified and authorized. The proposed reimbursement resolution identifies a major project intended to be solely or substantially financed by bonds anticipated to be issued in FY 2023. Board approval is required to obtain the tax-exemption of interest paid on MSD bonds by authorizing reimbursement from bond proceeds of the expenditures for this project.

This resolution does not take the place of an annual budget or capital projects ordinance as mandated by North Carolina General Statutes required authorizing any expenditures irrespective of source of the funds. The project has been or will be included in the District's annual budget process.

In addition to this current reimbursement resolution, additional resolutions may be submitted for other projects when their anticipated costs may be more accurately projected.

Discussion

\$28 million of bonds are planned to be issued in FY 2023, and this reimbursement resolution is intended to preserve for the District the ability to issue the bonds as tax-exempt bonds and to reimburse itself from their proceeds for the temporary cash outlay made for the projects identified in the reimbursement resolutions.

Engineering Staff have identified several upcoming projects detailed on the attached exhibit, which could be reimbursed from the upcoming revenue bonds. Estimated reimbursable expenditures for these projects total \$9,762,000.

Meeting Date:	August 16, 2017
Subject:	Reimbursement Resolution for Bond Projects
Page 2	

Fiscal Impact

Allows for reimbursement of project expenses with bond proceeds. This reimbursement resolution does not obligate the District to use bond proceeds for these projects, nor does it create an obligation for expenditure of the funds for the identified projects. Authorization for these project expenditures is provided by the annual budget ordinance or capital projects ordinance.

Staff Recommendation

Approval.

Action Taken Motion by: Second by: Other:	to	Approve Table	Disapprove Send to Committee
Follow-up required: Person responsible:		Deadline:	

Metropolitan Sewerage District of Buncombe County Attachment to Reimbursement Resolution

August 16, 2017

Project	Project #	Estimated Expenditures on and after June 16, 2017
South French Broad Int Grouting	2011033	\$ I,703,000
Commerce Street	2012129	I 68,000
Elkwood Ave.	2011080	1,430,000
Four Inch Main Patton Hill Rd.	2016100	248,000
Hendersonville Rd. @ Blake Drive	2015176	272,000
Hendersonville Rd. @ Peachtree Rd.	2012135	346,000
Hendersonville Rd. @ Rosscraggon. Ph. 2	2009150	1,474,000
Jonestown Road	2014178	850,000
Louisiana Ave. @ Brucemont Circle	2010100	635,000
Memory Lane	2016099	546,000
Mountain View Road	2014011	442,000
School Rd. @ Cranford Rd.	2014184	112,000
Sheppard Drive	2014152	146,000
Sutton Avenue	2014003	1,036,000
Plant High Rate Primary Treatment	2015054	354,000
		\$ 9,762,000

Note: Amounts rounded to nearest thousand

REIMBURSEMENT RESOLUTION

RESOLUTION OF THE DISTRICT BOARD OF THE METROPOLITAN SEWERAGE DISTRICT OF BUNCOMBE COUNTY, NORTH CAROLINA DECLARING ITS INTENTION TO REIMBURSE ITSELF FROM THE PROCEEDS OF ONE OR MORE TAX-EXEMPT FINANCINGS FOR CERTAIN EXPENDITURES MADE AND/OR TO BE MADE IN CONNECTION WITH THE ACQUISITION, CONSTRUCTION AND/OR EQUIPPING OF CERTAIN CAPITAL IMPROVEMENTS

WHEREAS, the Metropolitan Sewerage District of Buncombe County, North Carolina (the "Issuer") is a body politic and corporate organized and existing under the laws of the State of North Carolina; and

WHEREAS, the Issuer has paid, beginning June 16, 2017, and will pay, on and after the date hereof, certain expenditures (the "Expenditures) in connection with the acquisition, design and construction of the projects on the attached Exhibit (the "Projects"); and

WHEREAS, the District Board of the Issuer (the "Board") has determined that those monies previously advanced no more than 60 days prior to the date hereof and to be advanced on and after the date hereof to pay the Expenditures are available only for a temporary period and it is necessary to reimburse the Issuer for the Expenditures from the proceeds of one or more issues of tax-exempt bonds (the "Bonds");

NOW, THEREFORE, BE IT RESOLVED BY THE BOARD AS FOLLOWS:

Section 1. The Board hereby declares the Issuer's intent to reimburse the Issuer with the proceeds of the Bonds for the Expenditures with respect to the Project made on and after June 16, 2017 which date is no more than 60 days prior to the date hereof. The Issuer reasonably expects on the date hereof that it will reimburse the Expenditures with the proceeds of the Bonds.

Section 2. Each Expenditure was and will be either (a) of a type properly chargeable to capital account under general federal income tax principles (determined in each case as of the date of the Expenditure), (b) a cost of issuance with respect to the Bonds, (c) a nonrecurring item that is not customarily payable from current revenues, or (d) a grant to a party that is not related to or an agent of the Issuer so long as such grant does not impose any obligation or condition (directly or indirectly) to repay any amount to or for the benefit of the Issuer.

Section 3. The maximum principal amount of the Bonds expected to be issued for the Projects is \$9,762,000.

Section 4. The Issuer will make a reimbursement allocation, which is a written allocation by the Issuer that evidences the Issuer's use of proceeds of the Bonds to reimburse an Expenditure, no later than 18 months after the later of the date on which the Expenditure is paid or the Projects are placed in service or abandoned, but in no event more than three years after the date on which the Expenditure is paid. The Issuer recognizes that exceptions are available for certain "preliminary expenditures," costs of issuance, certain <u>de minimis</u> amounts, expenditures by "small issuers" (based on the year of issuance and not the year of expenditure) and expenditures for construction projects of at least five years.

Section 5. This resolution shall take effect immediately upon its passage.

PASSED AND ADOPTED this 16th day of August, 2017

M. Jerry VeHaun Chairman of the Board

Attested to:

Jackie W. Bryson, Secretary/Treasurer

Metropolitan Sewerage District of Buncombe County BOARD INFORMATIONAL ITEM

Meeting Date:	August 16, 2017
Submitted By:	Thomas E. Hartye, PE., General Manager
Prepared By:	W. Scott Powell, CLGFO, Director of Finance
Subject:	Fourth Quarter Budget to Actual Review — FY2017

Background

At the end of each quarter, actual revenue and expenditure amounts are compared with the budget to evaluate performance. This information is based on cash revenues and invoices received prior to June 30, 2017 and may not include some accruals of revenue and expenditures.

Discussion

There are several explanatory notes at the bottom of the attached Budget to Actual schedule. Other considerations are as follows:

- Domestic revenues are at budgeted expectations. Staff believes Domestic User Fee variance will end up around 103% when June accounts receivable data is received from the Member Agencies in September. Industrial Revenue is trending better than budgeted expectations due to temporary increased revenue from one new industrial user. Staff monitors consumption trends as they have a direct effect on the District's current and future revenue projections.
- Facility and Tap Fees are budgeted conservatively. The unusually large variance as of the end of the year is due to receiving unanticipated revenue of \$3.7 million from eight developments.
- Interest and miscellaneous income are at budgeted expectations. Short-term interest rates are still experiencing pressures due to Federal Reserve monetary policy.
- > Rental income is at budgeted expectations.
- Actual and encumbered O&M expenditures are considered reasonable, but may vary slightly once accruals and adjustments are made in connection to the final audit.
- Bond principal and interest are better than budgeted expectations due to the interest rate swap associated with Series 2008A revenue refunding bonds.
- Capital project expenditures are at approximately 81.9% of budget. This reflects the delay of the Plant Headworks project.

Board Meeting: August 16, 2017 Subject: Fourth Quarter Budget to Actual Review – FY2017 Page -2-

Staff Recommendation

None - Information Only.

Action Taken			
Motion by:	to	Approve	Disapprove
Second by:		Table	Send to Committee
Other:			
Follow-up required:			
Person responsible:		Deadline:	
Contraction of the second seco			

Metropolitan Sewerage District Budget to Actual Revenue and Expenditure Report For the twelve months ended June 30, 2017 UNAUDITED--NON-GAAP

	Budget	Actual to Date	% Budget to Actual
REVENUES			
Domestic User Fees ¹	\$ 29,922,929	\$ 30,543,353	102.07%
Industrial User Fees	2,943,043	3,867,611	131.42%
Facility Fees ²	1,500,000	6,405,971	427.06%
Tap Fees ³	200,000	571,126	285.56%
Billing and Collection	772,500	767,278	99.32%
Interest and Misc. Income	599,032	604,952	100.99%
Employee Contribution to Health Ins.	415,000	383,119	92.32%
City of Asheville (Enka Bonds)	37,000	35,834	96.85%
Proceeds from Revenue Bonds	-		0.00%
Rental Income	71,399	71,063	99.53%
Use of Available Funds ⁴	 10,548,760	(1,735,951)	-16.46%
Total Revenues⁵	\$ 47,009,663	\$ 41,514,357	88.31%
EXPENDITURES			
Operations and Maintenance ⁶	\$ 16,125,586	\$ 15,536,612	96.35%
Bond Principal and Interest	7,956,840	7,918,557	99.52%
Capital Equipment (Other than O&M) ⁶	885,150	828,000	93.54%
Capital Projects ⁶	21,042,087	17,231,188	81.89%
Contingency	 1,000,000	<u> </u>	0.00%
Total Expenditures	\$ 47,009,663	\$ 41,514,357	88.31%

Notes:

¹ Revenues are accounted for on the cash basis method

² Increase due to unanticipated revenue from eight developments at \$3,722,000

³ Increase in number of Taps requiring Pavement Disturbance

⁴ Pay-as-go funds to be used for CIP

⁵ Budget-to-Actual Ratio does not include use of available funds

⁶ Includes encumbered amounts as well as actual insurance expenditures

Metropolitan Sewerage District of Buncombe County BOARD INFORMATIONAL ITEM

Meeting Date:	August 16, 2017
Submitted By:	Thomas E. Hartye, PE., General Manager
Prepared By:	W. Scott Powell, CLGFO, Director of Finance Cheryl Rice, Accounting Manager
Subject:	Cash Commitment/Investment Report-Month Ended June 30, 2017

Background

Each month, staff presents to the Board an investment report for all monies in bank accounts and specific investment instruments. The total investments as of June 30, 2017 were \$54,023,614. The detailed listing of accounts is available upon request. The average rate of return for all investments is 0.695%. These investments comply with North Carolina General Statutes, Board written investment policies, and the District's Bond Order.

The attached investment report represents cash and cash equivalents as of June 30, 2017 do not reflect contractual commitments or encumbrances against said funds. Shown below are the total investments as of June 30, 2017 reduced by contractual commitments, bond funds, and District reserve funds. The balance available for future capital outlay is (\$11,936,637).

Total Cash & Investments as of 06/30/2017		54,023,614
Less:		
FY18 0 & M Expenditures approved June 14, 2017	(16,564,818)	
FY18 Construction Expenditures approved June 14, 2017	(28,307,716)	
		(44,872,534)
Bond Restricted Funds		
Bond Service (Funds held by trustee):		
Funds in Principal & Interest Accounts	(5,580,807)	
FY18 Principal & Interest Due	(9,790,466)	
		(15,371,273)
District Reserve Funds		
Fleet Replacement	(615,568)	
Pump Replacement	(62,391)	
WWTP Replacement	(434,624)	
Maintenance Reserve	(962,431)	
		(2,075,014)
District Insurance Funds		
General Liability	(553,238)	
Worker's Compensation	(297,537)	
Post-Retirement Benefit	(1,543,559)	
Self-Funded Employee Medical	(1,247,096)	
		(3,641,430)
Designated for Capital Outlay		(11,936,637)

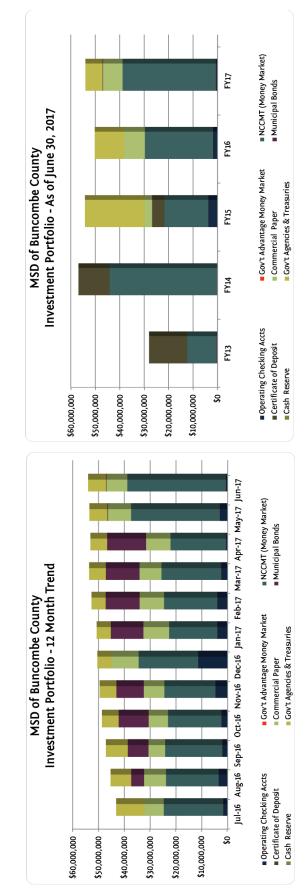
None. Information Only.

to	Approve	Disapprove	
	Table	Send to Committee	
	Person Required:	Deadline:	
	to		Table Send to Committee

Metropolitan Sewerage District of Buncombe County Investment Portfolio

Total	5,580,807	48,442,807	54,023,614
Gov't Agencies & Treasuries	\$ '	6,992,473	6,992,473 \$
Cash Gov Reserve & ⁻	\$ -		, ,
	\$-	200,000	200,000 \$
al Municipal Bonds	\$		
Commercial Paper	\$	7,986,316	\$ 7,986,316 \$
Certificate of Deposit	- \$		•
NCCMT Money Market)	5,580,807	32,532,865	38,113,672
age cet (1	\$ '	46,673	46,673 \$
Gov't Advantage Money Market	\$		\$
Operating Gov't Advant Checking Accounts Money Marl	•	684,480	684,480
J	Held with Bond Trustee \$	Held by MSD	~

Investment Policy Asset Allocation	Maximum Percent Actual Percent	Actual Percent	
J.S. Government Treasuries,			
Agencies and Instrumentalities	100%	12.94%	No significant changes in the investment portfolio as to makeup or total amount.
Bankers' Acceptances	20%	0.00%	
Certificates of Deposit	100%	0.00%	The District 's YTM of 1.06% is exceeding the YTM benchmarks of the
Commercial Paper	20%	14.78%	6 month T-Bill and NCCMT Cash Portfolio.
Municipal Bonds	100%	0.37%	
North Carolina Capital Management Trust	100%	70.54%	
Checking Accounts:	100%		All funds invested in CD's, operating checking accounts, Gov't Advantage money market
Operating Checking Accounts		1.27%	are fully collaterlized with the State Treasurer.
Gov't Advantage Money Market		0.09%	



Board Meeting: August 16, 2017 Cash Commitment/Investment Report-Month Ended June 30, 2017

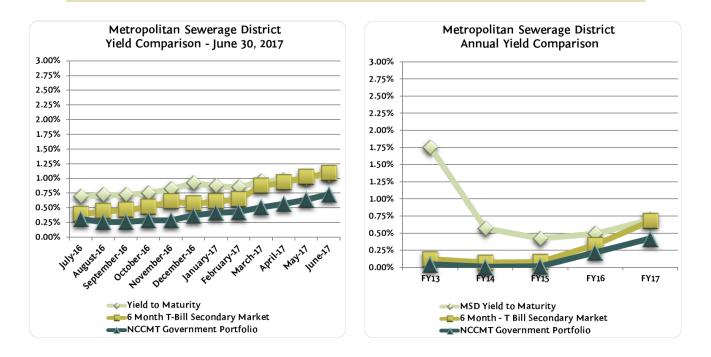
Subject: Page -2-

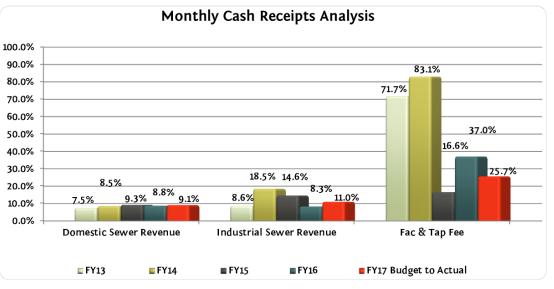
METROPOLITAN SEWERAGE DISTRICT INVESTMENT MANAGERS' REPORT At June 30, 2017

Summary of Asset Transactions						
		Original Cost		Market		Interest Receivable
	*		*		*	
Beginning Balance	\$	48,136,696	\$	48,140,090	\$	12,077
Capital Contributed (Withdrawn)		(2,668,441)		(2,668,441)		
Realized Income		26,123		26,123		
Unrealized/Accrued Income				7,469		5,073
Ending Balance	\$	45,494,378	\$	45,505,241	\$	17,150

Value and Income by Maturity					
0	riginal Cost		Income		
\$	38,502,637	\$	32,722		
	1,992,491	\$	1,693		
	4,999,250	\$	4,249		
\$	45,494,378	\$	38,665		
		Original Cost \$ 38,502,637 1,992,491 4,999,250	Original Cost \$ 38,502,637 \$ 1,992,491 \$ 4,999,250 \$		

Month End Portfolio Information						
Weighted Average Maturity	125					
Yield to Maturity	1.06%					
6 Month T-Bill Secondary Market	1.09%					
NCCMT Government Portfolio	0.73%					

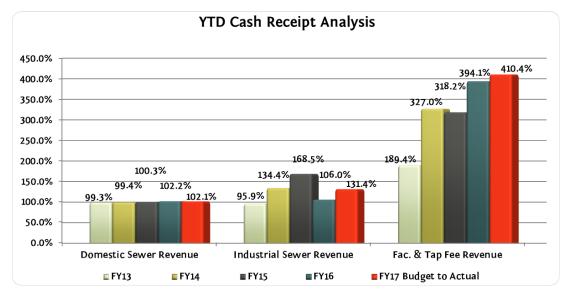




METROPOLITAN SEWERAGE DISTRICT ANALYSIS OF CASH RECEIPTS As of June 30, 2017

Monthly Cash Receipts Analysis:

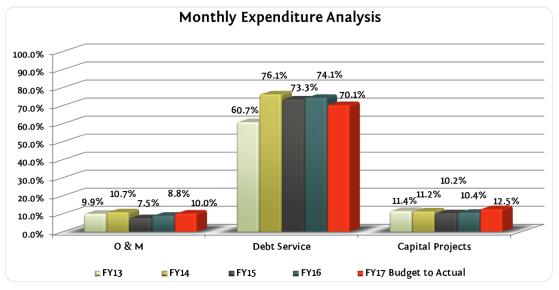
- Monthly domestic sewer revenue is considered reasonable based on timing of cash receipts in their respective fiscal periods.
- Monthly industrial sewer revenue is reasonable based on historical trends.
- A Due to the unpredictable nature of facility and tap fee revenue, staff considers facility and tap fee revenue reasonable.



YTD Actual Revenue Analysis:

- **YTD** domestic sewer revenue is considered reasonable based on historical trends.
- **YTD** industrial sewer revenue is reasonable based on historical trends.
- Due to the unpredictable nature of facility and tap fee revenue, staff considers facility and tap fee revenue reasonable.

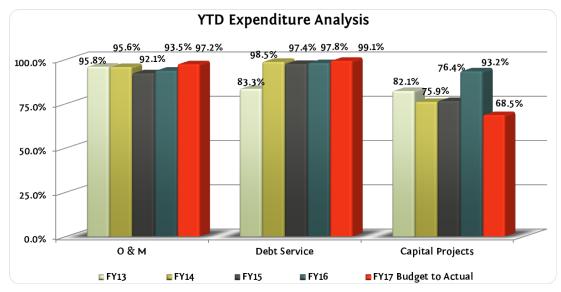
Board Meeting:August 16, 2017Subject:Cash Commitment/Investment Report-Month Ended June 30, 2017Page -5-



METROPOLITAN SEWERAGE DISTRICT ANALYSIS OF EXPENDITURES As of June 30, 2017

Monthly Expenditure Analysis:

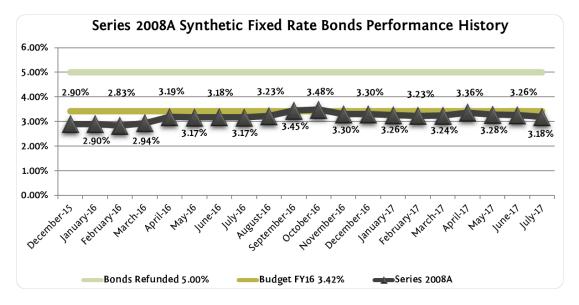
- Monthly 0&M expenditures are considered reasonable based on historical trends and timing of expenditures in the current year.
- Due to the nature of the variable rate bond market, monthly expenditures can vary year to year. Based on current variable interest rates, monthly debt service expenditures are considered reasonable.
- Due to nature and timing of capital projects, monthly expenditures can vary from year to year. Based on the current outstanding capital projects, monthly capital project expenditures are considered reasonable.



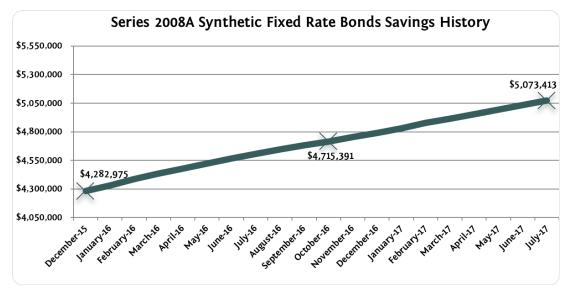
YTD Expenditure Analysis:

- > YTD 0&M expenditures are considered reasonable based on historical trends.
- Due to the nature of the variable rate bond market, YTD expenditures can vary year to year. Based on current variable interest rates, YTD debt service expenditures are considered reasonable.
- Due to nature and timing of capital projects, YTD expenditures can vary from year to year. Based on the current outstanding capital projects, YTD capital project expenditures are considered reasonable.





METROPOLITAN SEWERAGE DISTRICT VARIABLE DEBT SERVICE REPORT As of July 31, 2017



Series 2008A:

- Savings to date on the Series 2008A Synthetic Fixed Rate Bonds is \$5,073,413 as compared to 4/1/2008 fixed rate of 4.85%.
- Assuming that the rate on the Series 2008A Bonds continues at the current all-in rate of 3.9475%, MSD will achieve cash savings of \$4,670,000 over the life of the bonds.
- MSD would pay \$3,870,038 to terminate the existing Bank of America Swap Agreement.

STATUS REPORTS

MSD System Services In-House Construction									
			FY 17-1	8 PROJECTS					
PROJECT NAME	LOCATION	ZIP CODE	ESTIMATED FOOTAGE	ESTIMATED PROJECT DATES	WO#	CREW	COMPLETION DATE	ACTUAL FOOTAGE	NOTES
11 Greenbriar Emergency Repair	Asheville	TBA	50	7/1/17 - 7/10/17	244238	632	7/7/2017	52	complete
Sycamore Drive @ Walnut Street (Phase 2)	Arden	28704	290	7/1/17 - 7/31/17	244350	631	7/14/2017	291	complete
Windsor Road @ Beaverbrook Road	North Asheville	28804	726	7/8/17-7/31/17	228305	632	7/31/2017	705	complete
Nebraska Street Emergency Rehabilitation (Ph. 1)	W. Asheville	28806	415	8/1/17 - 9/1/17	240563	631			Work 65% complete
Celia Place at Bond Street (Rework) Sycamore Drive @ Walnut Street (Phase 2)	N. Asheville Arden	28801 28704	250 494	<u>8/1/17 - 8/11/17</u> 9/4/17 - 10/2/17	244891 245100	632 631			Work 20% complete ready for construction
Windsor Road @ Beaverbrook Road (Ph. 2)	North Asheville	28804	250	8/14/17 - 9/1/17	243100	632			ready for construction
44 Forsythe St	Asheville	28801	350	6/14/17 - 9/1/17 FY 17-18	237035	TBA			ready for construction
Raliegh Avenue @ Marietta Street	Asheville	28803	655	FY17-18	237100	TBA			ready for construction
Penelope Street @ W. Cotton Ave	Black Mountain	28711	250	FY17-18	222331	TBA			ready for construction
Royal Pines @ Oak Terrace	Arden	28704	1000	FY17-18	237372	TBA			ready for construction
Cedar Lane @ Oak Terrace	Arden	28704	1500	FY17-18	237374	TBA			ready for construction
15 Dew Waite Road	Ridgecrest	28770	533	FY17-18	236553	TBA			In Design
252 Kenilworth Road	Asheville	28803	800	FY17-18	234632	TBA			In Design
26 Wilshire Drive Sewer Rehabilitation	West Asheville	28806	1250	FY17-18	235158	TBA			Preliminary Engineering
Williamette Circle Sanitary Sewer Rehabilitation	Weaverville	28787	183	FY17-18	233748	TBA			Preliminary Engineering
817 Montreat Road	Black Mountain	28711	340	FY17-18	228942	TBA			In Design
Lapsley Lane @ Brevard Road	Avery's Creek	28704	576	FY17-18	237319	TBA			Preliminary Engineering
139 Weaverville Road	North Asheville - Woodfin	28804	405	FY17-18	237340	ТВА			Preliminary Engineering
Tabernacle Road @ Avena Street	Black Mountain	28711	600	FY17-18	237353	ТВА			Preliminary Engineering
38 Dunsmore Avenue	Black Mountain	28711	260	FY17-18	237426	ТВА			Preliminary Engineering
Carlyle Way @ Sweenten Creek Rd	South Asheville	28803	100	FY17-18	232211	ТВА			Preliminary Engineering
Asheville Country Club Phase 1C	North Asheville	28804	1210	FY17-18	237431	ТВА			Preliminary Engineering
165 Coleman Avenue	Asheville	28801	200	FY17-18	233875	ТВА			Preliminary Engineering
72 Dillingham Road	Asheville	28805	234	FY17-18	39327	ТВА			Preliminary Engineering
Sunset Dr. @ Vance Drive	Black Mountain	28711	1010	FY17-18	237499	ТВА			Preliminary Engineering
Charlotte Street @ N Ridgeway Avenue	Black Mountain	28711	1073	FY 17-18	232699	TBA			Preliminary Engineering
Empire Drive @ Hendersonville Road	Asheville	28803	287	FY 17-18	229444	ТВА			Preliminary Engineering
School Road at Cranford Road	W. Asheville	28806	360	FY 16-17	224943	ТВА			ready for construction
4 Westview Rd	Asheville - Oakley	28803	740	FY 16-17	238683	ТВА			In Design
Saint Johns Street Force Main Replacement	Arden	28704	1040	FY17-18	28704	ТВА			Preliminary Engineering
Governors View Road @ Bull Mountain Road	Asheville	28805	785	FY17-18	238394	ТВА			Preliminary Engineering



CONSTRUCTION TOTALS BY DATE COMPLETED - Monthly

From 7/1/2016 to 6/30/2017

	Dig Ups	Emergency Dig Ups	Dig Up ML Ftg	Dig Up SL Ftg	Manhole Repairs	Taps Installed	ROW Ftg	IRS Rehab Ftg *	Const Rehab Ftg *	D-R Rehab Ftg *	Manhole Installs	Bursting Rehab Ftg *	Total Rehab Ftg *
July 2016	24	9	114	706	35	27	1,620	0	16	377	11	1,788	2181
August 2016	40	11	149	1,050	36	40	1,586	0	264	300	6	120	684
September 2016	32	9	219	471	23	20	1,833	0	0	3923	23	0	3923
October 2016	44	5	478	917	36	31	9,920	0	0	1173	14	403	1576
November 2016	35	11	123	703	33	20	1,175	0	8	447	7	312	767
December 2016	32	7	178	794	21	26	0	0	0	582	7	205	787
January 2017	40	9	183	692	25	17	710	0	8	1161	13	1,082	2251
February 2017	26	19	266	1,386	28	35	965	0	48	373	8	575	996
March 2017	42	17	343	1,556	27	33	100	0	8	841	11	288	1137
April 2017	31	11	218	954	20	41	200	0	377	425	9	391	1193
May 2017	35	11	194	824	25	37	220	144	374	774	9	512	1804
June 2017	38	17	305	1,248	21	31	19,429	0	29	442	18	2,502	2973
Grand Totals	419	136	2,769	11,301	330	358	37,758	144	1132	10818	136	8,178	20272



PIPELINE MAINTENANCE TOTALS BY DATE COMPLETED - Monthly

July 01, 2016 to June 30, 2017

	Main Line Wash	Service Line Wash	Rod Line	Cleaned	CCTV	Smoke	SL-RAT
	Footage	Footage	Footage	Footage	Footage	Footage	Footage
2016							
July	45,193	2,360	6,542	51,735	20,983	32,171	20,618
August	75,579	1,531	12,085	87,664	26,074	42,442	17,103
September	105,529	1,471	11,406	116,935	12,671	26,129	16,406
October	66,420	2,175	10,127	76,547	17,277	46,276	21,969
November	35,682	3,046	12,831	48,513	21,342	13,076	9,061
December	39,977	2,212	7,424	47,401	17,146	5,282	28,363
2017							
January	39,078	2,846	9,508	48,586	13,472	8,344	27,431
February	112,190	2,093	11,803	123,993	20,768	9,177	1,800
March	80,434	2,361	5,808	86,242	18,973	8,472	3,136
April	76,346	1,601	5,958	82,304	20,019	3,500	3,000
Мау	152,481	2,241	10,477	162,958	20,913	1,000	23,397
June	56,778	1,636	11,394	68,172	27,944	8,558	4,756
Grand Total:	885,687	25,573	115,363	1,001,050	237,581	204,428	177,040
Avg Per Month:	73,807	2,131	9,614	83,421	19,798	17,036	14,753



CUSTOMER SERVICE REQUESTS

Monthly - All Crews

CREW	MONTH	JOBS	AVERAGE REPSONSE TIME	AVERAGE TIME SPENT
DAY 1S	T RESPONDER			
	July, 2016	106	26	41
	August, 2016	127	27	37
	September, 2016	92	28	43
	October, 2016	111	34	39
	November, 2016	119	34	39
	December, 2016	98	33	42
	January, 2017	121	31	41
	February, 2017	109	25	30
	March, 2017	124	24	40
	April, 2017	103	24	37
	May, 2017	109	25	40
	June, 2017	87	24	33
		1,306	28	39
NIGHT	1ST RESPONDER			
	July, 2016	14	21	49
	August, 2016	32	25	28
	September, 2016	10	25	16
	October, 2016	22	30	32
	November, 2016	13	30	29
	December, 2016	11	17	16
	January, 2017	26	18	18
	February, 2017	24	26	36
	March, 2017	22	24	21
	April, 2017	29	27	30
	May, 2017	30	19	22
	June, 2017	24	23	19
		257	24	26
ON-CAI	LL CREW *			
	July, 2016	35	48	37
	August, 2016	34	43	33

* On-Call Crew Hours: 8:00pm-7:30am Monday-Friday, Weekends, and Holidays



CUSTOMER SERVICE REQUESTS

Monthly - All Crews

CREW	MONTH	JOBS	AVERAGE REPSONSE TIME	AVERAGE TIME SPENT
ON-CALI	L CREW *			
	September, 2016	22	48	54
	October, 2016	43	41	34
	November, 2016	49	51	40
	December, 2016	60	50	33
	January, 2017	44	61	70
	February, 2017	43	43	40
	March, 2017	45	50	40
	April, 2017	48	44	49
	May, 2017	44	48	40
	June, 2017	36	38	33
		503	47	42
Grand To	otals:	2,066	32	38

^{*} On-Call Crew Hours: 8:00pm-7:30am Monday-Friday, Weekends, and Holidays

CAPITAL IMPROVEMENT PROGRAM

STATUS REPORT SUMMARY

August 9, 2017

PROJECT	LOCATION	CONTRACTOR	AWARD	NOTICE TO	ESTIMATED	*CONTRACT	*COMPLETION	COMMENTS
	OF PROJECT		DATE	PROCEED	COMPLETION DATE	AMOUNT	STATUS (WORK)	
COMMERCE STREET	Downtown Asheville 28801	Terry Brothers Construction Company	6/14/2017	7/17/2017	9/15/2017	\$190,657.00	30%	Project is going well.
FRENO DRIVE PSR	Asheville 28803	Terry Brothers Construction Company	2/15/2017	5/1/2017	9/28/2017	\$511,623.00	80%	Mainline installation is complete, service installation in progress.
LINING CONTRACT NO. 8	Various	IPR Southeast, LLC	1/18/2017	2/20/2017	10/1/2017	\$777,622.50	90%	Project is progressing well.
LOUISIANA AVENUE @ BRUCEMONT CIRCLE	Asheville 28806	Terry Brothers Construction Company	7/19/2017	TBA	TBA	\$363,252.00	0%	Project has been awarded. Contracts have been mailed to Contractor for execution.
POINT REPAIR CONTRACT NO. 2	Various	Patton Construction Group	7/19/2017	TBA	TBA	\$215,610.00	0%	Project has been awarded. Contracts have been mailed to Contractor for execution.
PLANT HEADWORKS IMPROVEMENTS	Woodfin 28804	Judy Construction Company	1/18/2017	4/3/2017	10/25/2018	\$8,377,000.10	10%	48" valve vault poured. Excavation for effluent structure complete and ready to start footing. Pressure washing and patching in surge tanks ongoing. Fiber installation 70% complete.
SWEETEN CREEK ROAD @ BUSBEE VIEW	Asheville 28803	Terry Brothers Construction Company	2/15/2017	4/10/2017	9/1/2017	\$192,315.00	99%	Contractor working on punch list items.

*Updated to reflect approved Change Orders and Time Extensions

		٨	etive Construct	ion Projects	Sorted by	Work I	ocation and Proj	ect Number			
Active Construction Projects Sorted by Work Location and Project Number August 4, 2017											
	Project Name	Project Number	Work Location	Zip Code	August 4	4, 2017 LF	Pre-Construction Conference Date	Comments			
Is	aac Dickson School Relocation	2013033	Asheville	28801	School	504	1/13/2014	Final Inspection complete, awaiting close-out docs			
	unt Hill Apartments	2013111	Asheville	28801	180	1,729	3/5/2014	Final Inspection complete, awaiting close-out docs			
_	villingham Woods	2014048	Asheville	28805	27	375	3/4/2015	Waiting on final inspection - Project delayed			
F	ranklin School of Innovation	2014096	Asheville	28806	School	359	11/4/2016	Final Inspection complete, awaiting close-out docs			
_	ivermill Lofts Relocation	2014125	Asheville	28803	254	314	8/21/2015	Waiting on final inspection			
	raggy Park Ph. 1	2014164	Asheville	28806	45	1,935	10/23/2015	Final Inspection complete, awaiting close-out docs			
	irst Baptist Relocation	2015032	Asheville	28801	Comm.	333	7/21/2015	Final Inspection complete, awaiting close-out docs			
	scot Point Apartments Phase 3	2015114	Asheville	28803	104	213	9/9/2016	Punchlist pending, awaiting closeout documents			
	Sulphur Springs Road	2015116	Asheville	28806	6	80	11/22/2016	Waiting on final inspection			
	he District	2015113	Asheville	28803	309	912	2/26/2016	Waiting on final inspection			
-	ampton Inn & Suites	2015135	Asheville	28806	Comm.	286	11/8/2016	Waiting on final inspection			
	airfield Inn & Suites - Tunnel Road	2015203	Asheville	28805	Comm.	350	4/29/2016	Waiting on final inspection			
	tkins Street	2015205	Asheville	28803	45	903	1/20/2017	Waiting on final inspection			
	8 Southside Avenue	2016015	Asheville	28801	18	400	2/21/2017	Waiting on final inspection			
	Voodbridge Park	2016082	Asheville	28803	20	615	2/17/2017	Waiting on final inspection			
	ausch Subdivision	2016032	Asheville	28805	4	248	5/16/2017	Pre-con held, construction not yet started			
	ear Creek Homes	2016220	Asheville	28806	30	1,400	3/28/2017	Testing			
	arindstaff Subdivision	2016226	Asheville	28805	4	1,400	6/23/2017	Pre-con held, construction not yet started			
-	hiloh Cottages	2016240	Asheville	28803	7	132	3/3/2017	Pre-con held, construction not yet started			
	Inteora	2010202	Asheville	28803	6	417	7/18/2017	Pre-con held, construction not yet started			
	Vest Keesler Avenue	2007176	Black Mountain	28711	6	410	11/15/2016	Testing			
	ettings at Black Mountain	2007170	Black Mountain	28711	30	907	11/13/2015	Final Inspection complete, awaiting close-out docs			
	08 Montreat Road	2003010	Black Mountain	28711	4	371	4/18/2017	Pre-con held, construction not yet started			
	udor Croft (aka Roberts Farm) Ph.2	2015120	Black Mountain	28711	46	1,320	1/3/2017	Installing			
	eregrine's Ridge	2006160	Buncombe Co.	28730	40	635	1/3/2017	Waiting on final inspection			
	lyde Park Phase 2	2000100	Buncombe Co.	28730	14	500	12/3/2013	Waiting on final inspection			
	reekside Cottages	2013038	Buncombe Co.	28704	7	504	3/12/2015	Final Inspection complete, awaiting close-out docs			
	overnor's Western Residence	2014093	Buncombe Co.	28704	Comm.	636	7/22/2015	Awaiting Easement Plat/Conveyance of Sewer System			
	ilenn Bridge Road	2014100	Buncombe Co.	28804	30	1,400	1/20/2013	Waiting on final inspection			
	vondale Subdivision	2014157 2015052		28704	30 4	215	4/7/2017	Pre-con held, construction not yet started			
		2015052	Buncombe Co.		4 312			Testing			
	reymont Apartments		Buncombe Co.	28806	125	3,193	5/17/2016	0			
	iberty Oaks Ph. 1A	2015157	Buncombe Co.	28715	-	705	1/17/2017	Testing			
	ee Tree Village	2015158	Buncombe Co.	28778	26	1,118	3/17/2017	Pre-con held, construction not yet started			
_	Villiams-Baldwin Teacher Campus	2015166	Buncombe Co.	28806	24	313	9/16/2016	Final Inspection complete, awaiting close-out docs			
	he Haven at Enka Lake	2015191	Buncombe Co.	28715	259	1,595	9/27/2016	Waiting on Final Inspection			
	reenwood Filelds Phase 1	2015204	Buncombe Co.	28804	158	2,830	6/16/2016	Final Inspection complete, awaiting close-out docs			
	kyland Exchange	2015217	Buncombe Co.	28704	292	1,090	2/7/2017	Installing			
	Veatherwood Subdivision	2016034	Buncombe Co.	28704	19	785	7/21/2017	Pre-con held, construction not yet started			
	foody Ave	2016050	Buncombe Co.	28715	3	180	6/15/2017	Installing			
	ong Shoals Apts.	2016070	Buncombe Co.	28704	475	930	7/10/2017	Installing			
	he Preserve at Avery's Creek	2016089	Buncombe Co.	28704	141	4,000	6/16/2017	Pre-con held, construction not yet started			
_	ong Shoals Village Phase 2	2016109	Buncombe Co.	28704	Comm.	330	8/16/2016	Waiting on testing			
_	iltmore Lake Block I, Phase 3	2016234	Buncombe Co.	28803	23	1,887	5/23/2017	Installing			
	iltmore Lake Bock D2-E	2016243	Buncombe Co.	28803	19	3,265	5/23/2017	Installing			
	he Ramble Block H, Phase 1	2017039	Buncombe Co.	28803	4	1,440	5/23/2017	Pre-con held, construction not yet started			
_	reenwood Park Phase 1	2014067	Weaverville	28787	7	283	9/1/2015	Final Inspection complete, awaiting close-out docs			
	reekside Village Phases III, IV, & V	2015167	Weaverville	28787	45	1,835	1/17/2017	Testing			
	ew Homes at North Main (Critter)	2016052	Weaverville	28787	54	1,808	2/10/2017	Waiting on Final			
_	Iaple Trace Phase 3	2016245	Weaverville	28787	24	1,260	5/2/2017	Waiting on testing			
C	rest Mountain Phase 3B	2013041	Woodfin	28806	69	1,329	10/15/2013	Punchlist pending, awaiting closeout documents			
R	eese & Jan Lasher (High Hopes)	2015152	Woodfin	28806	14	320	4/26/2016	Punchlist pending, awaiting closeout documents			
	entana Phase 2A	2016059	Woodfin	28806	8	900	2/17/2017	Testing			