

BOARD OF THE METROPOLITAN SEWERAGE DISTRICT
November 20, 2019

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 2:00 pm on Wednesday, November 20, 2019. Vice Chairman Kelly presided with the following members present: Ashley, Bryson, Manheimer, Pelly, Pressley, Valois, Watts, Whitesides and Wisler. Pennington and VeHaun were absent.

Others present were: William Clarke, General Counsel; Marcus Jones with Cane Creek Water & Sewer District; Joseph Martin with Woodfin Sanitary Water & Sewer District; Patty Beaver with CIBO; Tom Hartye, Ed Bradford, Scott Powell, Ken Stines, Roger Edwards, Pam Thomas, Hunter Carson, Mike Stamey, Julie Willingham, Matthew Walter, Pam Nolan and Denise Moore, MSD.

2. Inquiry as to Conflict of Interest:

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

3. Approval of Minutes of the October 16, 2019 Board Meeting:

Mr. Kelly asked if there were any changes to the Minutes of the October 16, 2019 Board Meeting. Mr. Pelly moved for approval of the minutes as presented. Mr. Whitesides seconded the motion. Voice vote in favor of the motion was unanimous.

4. Discussion and Adjustment of Agenda:

Mr. Hartye reported the Finance Committee met on this day at 1:15 pm and requested this report be added under Report of Committees, Item 6. b.

5. Informal Discussion and Public Comment:

Mr. Kelly welcomed Marcus Jones and Joe Martin. There was no public comment.

6. Report of General Manager:

Mr. Hartye thanked Mr. Martin for the leak repair in Riverside Drive in front of the Mull Building.

Mr. Hartye reported that Mr. Clarke, Mr. Westall and himself attended the Water Quality Committee of the Environmental Management Commission (EMC) last week concerning the inclusion of the Cane Creek Water and Sewer District within MSD and the documents submitted as required by statute. The Water Quality Committee voted to recommend to the full EMC that it move forward with the public hearing phase as stipulated in the statute. The full EMC will take this up in January.

Mr. Hartye reported that he and Mr. Powell also met with Hendersonville representatives concerning the potential of having them bill for sewer service on behalf of MSD within the Cane Creek service area. As mentioned in the study, Henderson County currently does that billing. The meeting went very well. The City was receptive. We will be drafting an agreement for both the Hendersonville City Council and MSD Board to approve, probably early in 2020. In addition, there was discussion about phasing in and notifying the public by putting flyers out to let them know how the billing will change.

Mr. Hartye reported that the next regular Board Meeting will be held December 18th at 2 pm. The November Right of Way Committee Meeting has been cancelled. The next Right of Way Committee Meeting will be held on January 22, 2020 at 9 am.

7. Report of Committees:

a. Right of Way Committee – October 23, 2019

Mr. Kelly reported that the Right of Way Committee met on October 23 and the actions taken and recommendations to the Board are set forth in this package.

b. Finance Committee – November 20, 2019

Mr. Kelly reported that the Finance Committee met today at 1:15 pm to hear a presentation from Mr. Powell and Mr. Cole regarding changing the swap agreement given the fact that LIBOR is going away and needs to be replaced with another index. Mr. Kelly turned the meeting over to Mr. Powell for a brief overview. Mr. Powell reported that MSD's Financial Advisor was present at the Finance Committee meeting and reviewed much of the same information as was discussed at last month's Planning Committee Meeting. There were three options evaluated that were available to the District. LIBOR is going away. The interest rate swap is based on LIBOR. That is the amount of money that is coming back to MSD in relation to the interest rate swap. One option is to change to 100% SIFMA. This is the option recommended to the Board to approve. The second option available is to terminate the swap, pay the termination fee of approximately \$3.223 Million and go with a variable interest rate. The third option was to terminate the swap and refund the 2008A Bonds. Changing to SIFMA would give the District three additional years to evaluate the performance of the swap before the next debt issuance which is in 2023. At that point in time the outstanding debt will be reduced by approximately 32.6% which effectively means that the termination fee would go down in a proportional amount.

8. Consolidated Motion Agenda:

a. Consideration of Condemnation - Christian Creek Interceptor:

Mr. Hartye reported that the Right of Way Committee recommends authority to obtain appraisal and proceed with condemnation, if necessary, on the parcels stipulated in this item.

b. Consideration of Compensation Budgets – Dogwood Road @ White Pine Circle PSR and West Crabapple Lane GSR:

Mr. Hartye reported that the Right of Way Committee recommends approval of these Compensation Budgets.

c. Consideration of Reimbursement for City of Asheville Haywood Streetscape Improvement Project: MSD Walnut Street @ Rankin Avenue Sanitary Sewer Rehabilitation Project:

Mr. Hartye reported that this sewer rehabilitation project is being coordinated with a larger City of Asheville project – Haywood Streetscape Improvement Project. This comprehensive project includes water, sewer, sidewalks, stormwater and paving. There have been about 14 formal meetings for the project, including review by multiple city commissions and committees. The project is located near the center of downtown, within the Central Business District along Haywood and Walnut Streets. It consists of replacing old, problematic 6-inch clay lines that are in bad condition. These are some of the oldest lines, dating back to the early 1900's. Construction will be difficult due to the limited work areas, restricted equipment access, traffic control, pedestrian safety, etc. The project is planned to begin in January 2020 with total construction time expected to last approximately one year. The sewer portion of the project consists of 2,195 LF of 8-inch DIP. Due to the difficult nature of the project, contractors were prequalified to bid, with four being qualified. The contract was advertised and two bids were received on October 1, 2019. The contract was therefore re-advertised and two bids were again received on October 10, 2019 as follows: Thomas Construction Company in the amount of \$6,145,128.00 with the sewer portion being \$2,168,477.30 and Tennoca Construction Company in the amount of \$5,324,017.00 with the sewer portion being \$2,210,441.00. The apparent low bidder is Tennoca Construction Company with an overall bid amount of \$5,324,017.00. T&K Utilities is the subcontractor performing the water and sewer work. T&K has extensive experience with the District projects and is a competent contractor. Bids came in significantly over budget for all aspects of the project. Therefore, in accordance with *NCGS 143-129*, City and District Staff met with Tennoca and T&K Utilities on October 22, 2019 in order to determine ways to reduce project costs. After the meeting, Tennoca reduced its original bid for the sewer work to \$1,554,120.00. The FY 19-20 Construction Budget for the sewer portion of this project was \$1,310,000.00. This will span the fiscal year so staff will be able to re-budget the difference in the up coming fiscal year. If approved, the District will make periodic payments to the City for the completed sewer portion. The City will run the contract. The District will need to commit to the original amount plus 10% contingency so that we can keep the project moving. The 10% contingency added by the City brings the total to \$1,709,532.00. The City and the District will enter into a Memorandum of Understanding for the cost-sharing portion of the project, subject to review and approval by District Counsel. Staff recommends moving forward with this based on the strong public interest, combined with the coordination of various divisions of work, we believe this is in the best interest of MSD to proceed.

d. Consideration of Procurement of New Dump Truck – Fleet Replacement:

Mr. Hartye reported that at the March 19, 2019, Equipment Replacement Committee meeting, members recommended the purchase of one new dump truck replacement. Funds for this purchase were included in the 2019-2020 Budget. Five bid packages were received and opened on October 29, 2019, as follows: MHC Kenworth in the amount of \$178,330.00; Western Star in the amount of \$140,402.00; International/Rush Truck in the amount of \$150,424.00; Peterbilt of Charlotte/TLG in the amount of \$160,335.00; and Freightliner/WC Freightliner in the amount of \$131,422.00. Freightliner was the lowest, responsive, responsible bidder to the MSD specifications. The total cost of this contract will be \$131,422.00. \$145,000.00 is budgeted for this item in the 2019-2020 Fleet Replacement Fund. Staff recommends the bid be awarded to Feightliner.

e. Consideration of Developer Constructed Sewer Systems: Fernwood Avenue; Fields BMW; Grove Park Views; Lausch Subdivision:

Mr. Hartye reported that the Fernwood Avenue project is located in the City of Asheville and consisted of extending approximately 365 linear feet of 8-inch public gravity sewer to serve 3 single-family residential units.

Mr. Hartye reported that the Fields BMW project is located along Skyland Inn Drive in the City of Asheville and consisted of relocating approximately 484 linear feet of 8-inch public gravity sewer and abandoning approximately 320 linear feet of 8-inch public gravity sewer to accommodate the commercial development.

Mr. Hartye reported that the Grove Park Views project is located along Henrietta Street and Spears Avenue in the City of Asheville and consisted of extending approximately 150 linear feet of 8-inch public gravity sewer to serve a 7-unit residential subdivision.

Mr. Hartye reported that the Lausch Subdivision project is located off Aurora Drive in the City of Asheville and consisted of extending approximately 285 linear feet of 8-inch public gravity sewer to serve a 4-unit single family residential subdivision.

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

f. First Quarter Budget to Actual ending September 30, 2019:

Mr. Powell reported that Page 35 presents the District's first quarter Budget to Actual Revenue and Expenditure Report. Domestic User Fees and Industrial User Fees are at budgeted expectations. Facility and Tap Fees are above budgeted expectations due to receiving approximately \$137,000.00 from one developer. Interest and miscellaneous income are below budgeted expectations. Actual

short-term interest rates are lower than anticipated for the fiscal year. O&M Expenditures are at 31.8% of budget. They include encumbered amounts which has elevated this budget to actual amount of above 25%. Encumbrances as of the end of September were approximately \$1.3 Million. Bond Principal and Interest Expenditures reflected at 25%. This aids the user to properly assess debt service commitments on a budgetary perspective. Actual amount spent as of the end of the first quarter is 2.1%. This is due to the timing of the District's debt service payments. Amounts budgeted for capital equipment and capital projects are rarely expended proportionately throughout the year. However, Staff believes at the end of the fiscal year both items will be at budgeted expectations.

g. Cash Commitment Investment Report – Month ended September, 2019:

Mr. Powell reported that Page 38 presents the makeup of the District's Investment Portfolio. There has been no significant change in the makeup of the portfolio from the prior month. Page 39 presents the MSD investment managers report for the month of September. The weighted average maturity of the investment portfolio is 99 days and the yield to maturity is 2.14%. Page 42 presents the District's Variable Debt Service report. The 2008A Series Bonds are performing better than budgeted expectations. As of the end of October, both issues have saved the District rate payers over \$6.1 million in debt service since April 2008.

With no further discussion, Mr. Kelly called for a motion to approve the Consolidated Motion Agenda. Mr. Watts moved, Ms. Wisler seconded the motion. Roll call vote was as follows: 10 ayes; 0 Nays.

9. Old Business:

None.

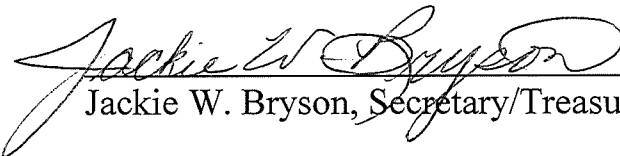
10. New Business:

Mr. Hartye reported that Mr. Valois has requested to have Staff prepare benchmarking information with other utilities and organizations. As this involves a significant amount of time over and above our normal operations, obligations and activities, Mr. Hartye stated that he and Staff want to get past the thrust of the CCWSD analysis and audit, which are also above and beyond operational obligations. These have been done and he and Staff are starting to pull together information for the benchmarking study. This will be done by the December or January Board meeting at latest. Mr. Hartye asked Mr. Valois if he would like to speak to this matter. Mr. Valois asked if Staff would also be doing the self-assessment aspect. Mr. Hartye stated that he and Mr. Valois could meet after this Board meeting to discuss in a little more detail. Mr. Hartye stated they could discuss how benchmarking was done by the District in 2001 and any changes anticipated as a result of new data. Mr. Pelly asked what the point of the benchmarking is. Mr. Valois stated a benchmark is something that you are not supposed to obtain, you should be below it. It gives you someplace to shoot for in performance standards.

There will be a baseline and hopefully it will keep increasing through the self-assessment process.

11. Adjournment:

With no further business, Mr. Kelly called for adjournment at 2:20 pm.



Jackie W. Bryson, Secretary/Treasurer

MSD

Regular Board Meeting

Metropolitan Sewerage District
of Buncombe County, NC

AGENDA FOR 11/20/19

✓	Agenda Item	Presenter	Time	
	Call to Order and Roll Call	VeHaun	2:00	
	01. Inquiry as to Conflict of Interest	VeHaun	2:05	
	02. Approval of Minutes of the October 16, 2019 Board Meeting	VeHaun	2:10	
	03. Discussion and Adjustment of Agenda	VeHaun	2:15	
	04. Informal Discussion and Public Comment	VeHaun	2:20	
	05. Report of General Manager	Hartye	2:25	
	06. Report of Committees		2:35	
	a. Right of Way Committee – October 23, 2019	Kelly		
	07. Consolidated Motion Agenda	Hartye	2:40	
	a. Consideration of Condemnation – Christian Creek Interceptor	Hartye		
	b. Consideration of Compensation Budgets – Dogwood Road @ White Pine Circle PSR; West Crabapple Lane GSR	Hartye		
	c. Consideration of Reimbursement for City of Asheville Haywood Streetscape Improvement Project: MSD Walnut Street @ Rankin Avenue Sanitary Sewer Rehabilitation	Hartye		
	d. Consideration of Procurement of New Dump Truck –Fleet Replacement	Hartye		
	e. Consideration of Developer Constructed Sewer Systems: Fernwood Avenue; Fields BMW; Grove Park Views; Lausch Subdivision	Hartye		
	f. First Quarter Budget to Actual ending September 30, 2019	Powell		
	g. Cash Commitment/Investment Report-Month ended September, 2019	Powell		
	08. Old Business:	VeHaun	2:55	
	09. New Business:	VeHaun	3:00	
	10. Adjournment: (Next Meeting 12/18/19)	VeHaun	3:05	
	STATUS REPORTS			

BOARD OF THE METROPOLITAN SEWERAGE DISTRICT
October 16, 2019

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 2:00 pm on Wednesday, October 16, 2019. Chairman VeHaun presided with the following members present: Ashley, Bryson, Kelly, Manheimer, Pelly, Pressley, Valois, Watts, Whitesides and Wisler. Pennington was absent.

Others present were: William Clarke, General Counsel; Forrest Westall with McGill Associates; Marcus Jones with Cane Creek Water & Sewer District; Joseph Martin with Woodfin Sanitary Water & Sewer District; Patty Beaver with CIBO; Tom Hartye, Ed Bradford, Scott Powell, Ken Stines, Roger Edwards, Pam Thomas, Hunter Carson, Mike Stamey, Matthew Walter, Spencer Nay, Pam Nolan and Denise Moore, MSD.

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 September 18, 2019 Board Meeting:

Mr. VeHaun asked if there were any changes to the Minutes of the September 18, 2019 Board Meeting. Mr. Kelly moved for approval of the minutes as presented. Mr. Pelly 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 Patty Beaver, Marcus Jones and Joe Martin. There was no public comment.

6. Report of General Manager:

Mr. Hartye reported that attached is a letter from Avril Pinder, Buncombe County Manager, inviting MSD Board Members to participate in the public engagement sessions for the new Strategic Plan. This meeting is regarding the short-term goals for the Buncombe County Commissioners and Nathan Pennington anticipates that maybe next year they will be doing a similar thing for the land use plan. Mr. Whitesides pointed out that the first session will be this Saturday, and there will be a total of 8 sessions. There are 4 primary areas for the strategic plan with 2 public sessions each. He encouraged everyone to try to attend one.

Mr. Hartye reported that attached is a copy of a card sent from Melissa Wright of Seventh Street in Black Mountain expressing her appreciation for a job

well done. Thanks to R.L. Haynes, Randy Norton, Mike Rice, Tommie Brooks, Grayson Hensley, Steve Meeks and James Norton.

Mr. Hartye reported that constructive criticism was received regarding MSD's notice to residents regarding the preventative maintenance of the sewer lines. The maps on the website were not changed quick enough to keep pace with the field crew notices, which lead to some confusion. We will ensure the website goes first in the future.

Mr. Hartye reported that a joint Planning/Finance Committee meeting was held at 12:30 today to discuss the expansion of MSD to include the Cane Creek Water & Sewer District. After the items are reviewed today at this Board Meeting, the intent is to send out the information to ensure timely consolidation due to the lengthy process involved.

Mr. Hartye reported that the next Right of Way Committee Meeting will be held on October 23rd at 9 am. The next regular Board Meeting will be held November 20th at 2 pm.

7. Consolidated Motion Agenda:

a. Consideration of Bids: South French Broad Interceptor Lining – Phase IV and Town Branch Interceptor Lining:

Mr. Hartye reported that this is the last phase of the lining of the 36" interceptor along the Biltmore Estate. It serves the south area, including Cane Creek and all of South Asheville and parts of northern Henderson County. It is comprised of lining the interceptor with Cured-in-Place-Pipe. The existing pipe is generally in good condition except for the joint areas and this will help keep this in service for many years to come. Staff is in the midst of surveying and preliminary design on the relief interceptor, which will parallel this line. That way there will be an existing line and the other can be laid in the dry and have two pipes providing for flow from the south. The Town Branch Interceptor is a major line that serves Asheville's southern downtown area. In 2018 a blockage on a section of this 21-inch clay line led to the biggest SSO we have had. MSD is looking to eliminate the root intrusion in that area which was a partial cause of that SSO. For the project on the Biltmore Estate, the work must be performed during their down season and it's pretty critical to get the work done in a short window. The contract was advertised and five bids were received on September 26, 2019 as follows: Granite Inliner, LLC in the amount of \$1,152,440.00; Insituform Technologies, LLC in the amount of \$1,125,518.70; SAK Construction, LLC in the amount of \$1,120,500.00; Am-Liner East Inc. in the amount of \$1,061,336.00; and IPR Southeast, LLC in the amount of \$922,306.00. The apparent low bidder is IPR Southeast, LLC, has performed work for the District on two previous contracts and there were significant problems with both timeliness and quality of work on those contracts. In addition, Staff called around for references and they are still apparently having problems on some of their newer jobs as well. This is such a critical job for MSD that staff recommends that

the District reject IPR's bid and award the contract to the second-low bidder, Am-Liner East Inc. Am-Liner East Inc. has performed previous work for the District on two other lining projects and done an excellent job. The combined FY19-20 Construction Budget for these two projects totals \$1,081,000.00. Staff recommends the District reject IPR Southeast, LLC's bid and award this contract to Am-Liner East Inc. in the amount of \$1,061,336.00, subject to review and approval by District Counsel.

b. Consideration of Developer Constructed Sewer Systems: Cypress Knoll Gardens, New Salem Heights, Ricky Robinson Property; Roscraggon Road Subdivision; Wheeler Road:

Mr. Hartye reported that the Cypress Knoll Gardens project is located in the City of Asheville and consisted of extending approximately 80 linear feet of 8-inch public gravity sewer to serve the single-family residential development.

Mr. Hartye reported that the New Salem Heights project is located in Buncombe County and consisted of extending approximately 805 linear feet of 8-inch public gravity sewer to serve the 25 residential unit development.

Mr. Hartye reported that the Ricky Robinson Property project consisted of extending approximately 385 linear feet of 8-inch public gravity sewer to serve a commercial development in Woodfin.

Mr. Hartye reported that the Rosscraggon Road project consisted of extending approximately 360 linear feet of 8-inch public gravity sewer along with abandoning approximately 320 linear feet of public gravity sewer to accommodate a 4-unit residential subdivision.

Mr. Hartye reported that the Wheeler Road project is in Buncombe County and consisted of extending approximately 1,530 linear feet of 8-inch public gravity sewer to serve a 72-unit residential subdivision.

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

c. Cash Commitment Investment Report – Month ended August, 2019:

Mr. Powell reported that Page 42 presents the makeup of the District's Investment Portfolio. There has been no significant change in the makeup of the portfolio from the prior month. Page 43 presents the MSD investment managers report for the month of August. The weighted average maturity of the investment portfolio is 135 days and the yield to maturity is 2.22%. Page 44 presents the analysis of the District's Cash Receipts. Monthly Domestic and Industrial Sewer Revenue is considered reasonable based on historical trends. Monthly and YTD Facility and Tap Fees are considered reasonable based on historical trends. Page 45 presents the analysis of the District's Expenditures. Monthly and YTD Expenditures are considered reasonable based on historical trends and timing of capital projects. Page 46 presents the MSD Variable Debt Service report. The

2008A Series is performing at budgeted expectations. As of the end of September, both issues have saved the District rate payers approximately \$6.1 million 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. Watts seconded the motion. Roll call vote was as follows: 11 ayes; 0 Nays.

8. Expansion of MSD to include Cane Creek WSD:

Mr. Hartye reported that at the Planning/Finance Committee Meeting held today at 12:30, the Planning/Finance Committee endorsed the analysis that MSD put together and directed that this analysis be forwarded to the EMC and the Henderson County Commissioners. This analysis shows that there will be no adverse effect on the existing District customers and will result in a reduced bill for CCWSD customers. There are certain things the District will move forward on between now and then, such as developing a Consolidation Agreement much like the ones we have with the rest of the member agencies. Staff recommends moving this on to the EMC because they will be meeting in 30 days with the Water Quality Committee. Planning and Finance Committees recommendation is that the MSD Board endorse the study and direct Staff to submit this material to the EMC. With no further discussion, Mr. VeHaun called for a motion to approve Planning/Finance Committee's recommendation. Ms. Wisler moved, Ms. Bryson seconded the motion. Roll call vote was as follows: 11 ayes; 0 Nays.

9. Old Business:

None.

10. New Business:

None.

11. Adjournment:

With no further business, Mr. VeHaun called for adjournment at 2:15 pm.

Jackie W. Bryson, Secretary/Treasurer



MEMORANDUM

TO: MSD Board
FROM: Thomas E. Hartye, P.E., General Manager
DATE: November 15, 2019
SUBJECT: Report from the General Manager

- Consolidation of Cane Creek WSD into MSD

The Water Quality Committee of the Environmental Management Commission (EMC) met November 13th concerning the consolidation and the documents submitted as required by statute. The Committee voted to recommend to the EMC that it move forward with the public hearing phase as stipulated in the statute. The EMC will take this up in January.

Staff met with Hendersonville representatives concerning the potential of having them bill for sewer service on behalf of MSD within the Cane Creek WSD service area starting July 1st of next year, if consolidation was to occur. The meeting went very well and we are proceeding to draft an agreement for both the City Council and MSD Board to approve.

- Finance Committee Meeting

The Finance Committee will meet at 1:15 pm on November 20th, prior to the Regular Board Meeting. The purpose will be to review options concerning resolving an upcoming issue related to MSD's 2008A Series Bonds and the associated Interest Rate Swap Agreement. MSD's financial consultant, Davenport & Company will be present to give a presentation and answer questions.

- Board/Committee Meetings/Events

The next Regular Board Meeting will be held on December 18th at 2 pm. The November 27th ROW Committee Meeting has been cancelled. The next Right of Way Committee meeting will be held on January 22nd, 2020.

**RIGHT OF WAY
COMMITTEE RECOMMENDATIONS
AND MINUTES
October 23, 2019**

I. Call To Order

The regular monthly meeting of the Right of Way Committee was held in the Boardroom of the William H. Mull Building and called to order at 9:04 a.m. on Wednesday, October 23, 2019. The following Right of Way Committee members were present: Glenn Kelly, Matt Ashley, Esther Manheimer, Chris Pelly, Nathan Pennington and Al Whitesides.

Others present were: Jerry VeHaun, Board Chair; Bob Watts and Earl Valois, Board Members; Tom Hartye, Angel Banks, Ed Bradford, Mike Stamey, Hunter Carson, Darin Prosser, Owen Herbert, Wesley Banner and Pam Nolan, MSD.

II. Inquiry as to Conflict of Interest

Mr. Kelly inquired if anyone had a conflict of interest with Agenda items. There was none.

III. Consideration of Condemnation– Christian Creek Interceptor, Project No. 2011110

**Property Owner: Charles W. & Lynn C. Freeman
Pin Number 9678-98-2379 and 9678-98-8425**

Subject parcels are improved with a mini storage complex along US Highway 70 in Swannanoa. The existing sewer enters the property from US 70 and parallels the frontage building. It then turns about 90 degrees and exits the rear of the property. The replacement sewer begins in the same trench at the manhole on the east end of the site. As the replacement sewer travels west, it will be pushed farther away from the frontage building as the building was built too close to the sewer.

Negotiations with the owners began well and they seemed to want to resolve any issues and execute the easements in a reasonable time. Their main concern was restoration elevations of frontage paving as they cannot have any water runoff in the storage units. Special provisions were prepared by the project engineer for precise pavement restoration to address this concern. The owners indicated they were pleased with the provisions and wanted their attorney to review the easement agreement.

Standard compensation offered is \$10,959. Owner's attorney called in August to express concerns of loss of income during construction and countered with \$20,000. Billy Clarke was consulted; a counteroffer of \$15,500 was made August 30. September and October follow up emails and telephone calls to owner's attorney have not been returned. This project will be advertised November 17 and MSD needs to move forward.

Total Contacts: 14

STAFF RECOMMENDATION: Authority to obtain appraisal and proceed with condemnation, if necessary.

Ms. Banks presented a map and explained the location and situation regarding this parcel. This is the largest project in the current budget and will be a difficult one with multiple crossings of Norfolk Southern, I-40 and Christian Creek. Staff is currently estimating 16 months to complete this project. Mr. Kelly asked what kind of business they run on this property. Ms. Banks stated it was a mini storage. Mr. Watts asked how much of this is in Southern Railway right of way. Ms. Banks stated the back building is, the front buildings are 50 feet away from the tracks. There was some discussion regarding the elevations and paving on this property. Mr. Kelly made the motion to accept Staff's recommendation. Ms. Manheimer seconded the motion. Voice vote was unanimous.

COMMITTEE RECOMMENDATION: Authority to obtain appraisal and proceed with condemnation, if necessary.

IV. Consideration of Compensation Budgets –

**Dogwood Road @ White Pine Circle PSR, Project No. 2014132
West Crabapple Lane GSR, Project No. 2014005**

The attached Compensation Budgets are based on current ad valorem tax values and follow the MSD approved formula.

STAFF RECOMMENDATION: Approval of Compensation Budgets.

Ms. Banks reviewed the above compensation budgets. The Dogwood Road @ White Pine Circle project is located in Fletcher. It consists of replacing 565 linear feet of 4" Orangeburg pipe with 8" DIP. This line has multiple structural defects. The West Crabapple Lane project is located in North Asheville off of Beaverdam Road. It consists of replacing 1,774 linear feet of 8" VCP with 8" HDPE and DIP. This line has structural issues and root intrusion and there is a portion of the line that is exposed in a ditch.

Mr. Kelly made the motion to accept Staff's recommendation. Ms. Manheimer seconded the motion. Voice vote was unanimous.

COMMITTEE RECOMMENDATION: Approval of Compensation Budgets.

IV. Quarterly Report – First Quarter

Attached you will find a Project Status Summary for all active acquisition projects. This report provides information on percentage of easements complete, percentage of compensation expended and comments on condemnations. This information is provided for your review.

STAFF RECOMMENDATION: For information only. No action required.

There being no further business, the meeting adjourned at 9:12 am.

Metropolitan Sewerage District of Buncombe County

Board Action Item - Right-of-Way Committee

COMMITTEE MEETING DATE: 10/23/2019

BOARD MEETING DATE: 11/20/2019

SUBMITTED BY: Tom Hartye, PE, General Manager
PREPARED BY: Angel Banks, Right of Way Manager
REVIEWED BY: Ed Bradford, PE, Director of CIP

**SUBJECT: Consideration of Condemnation–
Christian Creek Interceptor, Project No. 2011110**

Property Owner: Charles W. & Lynn C. Freeman, Pins 9678-98-2379 and 9678-98-8425

Subject parcels are improved with a mini storage complex along US Highway 70 in Swannanoa. The existing sewer enters the property from US 70 and parallels the frontage building. It then turns about 90 degrees and exits the rear of the property. The replacement sewer begins in the same trench at the manhole on the east end of the site. As the replacement sewer travels west, it will be pushed farther away from the frontage building as the building was built too close to the sewer.

Negotiations with the owners began well and they seemed to want to resolve any issues and execute the easements in a reasonable time. Their main concern was restoration elevations of frontage paving as they cannot have any water runoff in the storage units. Special provisions were prepared by the project engineer for precise pavement restoration to address this concern. The owners indicated they were pleased with the provisions and wanted their attorney to review the easement agreement.

Standard compensation offered is \$10,959. Owner's attorney called in August to express concerns of loss of income during construction and countered with \$20,000. Billy Clarke was consulted; a counteroffer of \$15,500 was made August 30. September and October follow up emails and telephone calls to owner's attorney have not been returned. This project will be advertised November 17 and MSD needs to move forward.

Total Contacts: 14

STAFF RECOMMENDATION: Authority to obtain appraisal and proceed with condemnation, if necessary.

Ms. Banks presented a map and explained the location and situation regarding this parcel. This is the largest project in the current budget and will be a difficult one with multiple crossings of Norfolk Southern, I-40 and Christian Creek. Staff is currently estimating 16 months to complete this project. Mr. Kelly asked what kind of business they run on this property. Ms. Banks stated it was a mini storage. Mr. Watts asked how much of this is in Southern Railway right of way. Ms. Banks stated the back building is, the front buildings are 50 feet away from the tracks. There was some discussion regarding the elevations and paving on this property. Mr. Kelly made the motion to accept Staff's recommendation. Ms. Manheimer seconded the motion. Voice vote was unanimous.

COMMITTEE RECOMMENDATION: Authority to obtain appraisal and proceed with condemnation, if necessary.

Metropolitan Sewerage District of Buncombe County
Board Action Item - Right-of-Way Committee

COMMITTEE MEETING DATE: 10/23/2019

BOARD MEETING DATE: 11/20/2019

SUBMITTED BY: Tom Hartye, PE, General Manager
PREPARED BY: Angel Banks, Right of Way Manager
REVIEWED BY: Ed Bradford, PE, Director of CIP

SUBJECT: Consideration of Compensation Budgets –

**Dogwood Road @ White Pine Circle PSR, Project No. 2014132
West Crabapple Lane GSR, Project No. 2014005**

The attached Compensation Budgets are based on current ad valorem tax values and follow the MSD approved formula.

STAFF RECOMMENDATION: Approval of Compensation Budgets.

Ms. Banks reviewed the above compensation budgets. The Dogwood Road @ White Pine Circle project is located in Fletcher. It consists of replacing 565 linear feet of 4” Orangeburg pipe with 8” DIP. This line has multiple structural defects. The West Crabapple Lane project is located in North Asheville off of Beaverdam Road. It consists of replacing 1,774 linear feet of 8” VCP with 8” HDPE and DIP. This line has structural issues and root intrusion and there is a portion of the line that is exposed in a ditch. Mr. Kelly made the motion to accept Staff’s recommendation. Ms. Manheimer seconded the motion. Voice vote was unanimous.

COMMITTEE RECOMMENDATION: Approval of Compensation Budgets.

Dogwood Rd. @ White Pine Circle PSR

Project Number: 2014132

Compensation Budget

08-Oct-19

Pin Number and Name		Acres	Parcel SF	Land Value	LV/SF	Net PE SF	PE Assd. Value	50% PE Assd. Value	TCE SF	TCE Assd. Value	10% Annl Return	Proj Time	TCE Rent Value	Total Comp. (Rounded)		
27 Pin	83 Pin															
	9653579920	Allen	Lynette	0.20	8,712.00	\$33,200.00	\$3.81	1,939.80	\$7,390.64	\$3,695.32	1,468.30	\$5,594.22	\$559.42	2	\$93.24	\$3,789
	9653589174	Boussios	Stelios	0.22	9,583.20	\$33,600.00	\$3.51	1,448.50	\$5,084.24	\$2,542.12	1,027.90	\$3,607.93	\$360.79	2	\$60.13	\$2,602
	9653589244	Chandler	James	0.23	10,018.80	\$33,800.00	\$3.37	746.90	\$2,517.05	\$1,258.53	502.30	\$1,692.75	\$169.28	2	\$28.21	\$1,287
	9653680232	Chandler	James	0.24	10,454.40	\$34,000.00	\$3.25	1,618.50	\$5,260.13	\$2,630.06	978.60	\$3,180.45	\$318.05	2	\$53.01	\$2,683
	9653589078	Copeland Jr.	William	0.19	8,276.40	\$32,900.00	\$3.98	1,255.50	\$4,996.89	\$2,498.45	0.00	\$0.00	\$0.00	2	\$0.00	\$2,498
	9653578783	Hale	Kenneth	0.22	9,583.20	\$33,600.00	\$3.51	200.00	\$702.00	\$351.00	300.00	\$1,053.00	\$105.30	2	\$17.55	\$369
	9653589042	Mahaffey	William	0.18	7,840.80	\$32,700.00	\$4.17	1,359.50	\$5,669.12	\$2,834.56	1,016.50	\$4,238.81	\$423.88	2	\$70.65	\$2,905
	9653579810	Norton	Mark	0.25	10,890.00	\$34,200.00	\$3.14	1,943.60	\$6,102.90	\$3,051.45	2,011.50	\$6,316.11	\$631.61	2	\$105.27	\$3,157
													TOTALS:	\$19,290		
													Staff Contingency:	\$5,000		
													GM's Contingency	\$5,000		
													Amendment			
													Total Budget:	\$29,290		

West Crabapple Lane GSR

Project Number: 2014005

Compensation Budget

08-Oct-19

Pin Number and Name		Acres	Parcel SF	Land Value	LV/SF	Net PE SF	PE Assd. Value	50% PE Assd. Value	TCE SF	TCE Assd. Value	10% Annl Return	Proj Time	TCE Rent Value	Total Comp. (Rounded)		
27 Pin	83 Pin															
	9740880396	Amys	Christopher	0.85	37,026.00	\$110,900.00	\$3.00	6,943.00	\$20,829.00	\$10,414.50	0.00	\$0.00	\$0.00	3	\$0.00	\$10,415
	9740787763	Bluth	Lawrence	0.68	29,620.80	\$107,600.00	\$3.63	2,851.00	\$10,349.13	\$5,174.57	0.00	\$0.00	\$0.00	3	\$0.00	\$5,175
	9740785853	Cardwell	Elizabeth	1.14	49,658.40	\$115,500.00	\$2.33	3,652.00	\$8,509.16	\$4,254.58	0.00	\$0.00	\$0.00	3	\$0.00	\$4,255
	9740787804	Cork	Robert	0.46	20,037.60	\$101,900.00	\$5.09	2,540.00	\$12,928.60	\$6,464.30	0.00	\$0.00	\$0.00	3	\$0.00	\$6,464
	9740795482	Cowles	Stuart	0.92	40,075.20	\$112,100.00	\$2.80	3,161.00	\$8,850.80	\$4,425.40	4,741.00	\$13,274.80	\$1,327.48	3	\$331.87	\$4,757
	9740795787	Manfred	Steven	0.83	36,154.80	\$110,600.00	\$3.06	346.00	\$1,058.76	\$529.38	520.00	\$1,591.20	\$159.12	3	\$39.78	\$569
	9740789512	Musser	Amy	0.49	21,344.40	\$102,800.00	\$4.82	3,012.00	\$14,517.84	\$7,258.92	0.00	\$0.00	\$0.00	3	\$0.00	\$7,259
	9740796119	Neatherway	Ian	0.64	27,878.40	\$106,700.00	\$3.83	2,024.00	\$7,751.92	\$3,875.96	3,037.00	\$11,631.71	\$1,163.17	3	\$290.79	\$4,167
	9740796209	Owings	Richard	0.58	25,264.80	\$105,200.00	\$4.16	2,111.00	\$8,781.76	\$4,390.88	3,167.00	\$13,174.72	\$1,317.47	3	\$329.37	\$4,720
	9740788622	Ramsay Revocable Living		0.54	23,522.40	\$104,200.00	\$4.43	2,730.00	\$12,093.90	\$6,046.95	0.00	\$0.00	\$0.00	3	\$0.00	\$6,047
	9740795589	Scully	Daniel	1.05	45,738.00	\$221,900.00	\$4.85	3,692.00	\$17,906.20	\$8,953.10	5,537.00	\$26,854.45	\$2,685.45	3	\$671.36	\$9,624
	9740795077	Traywick Jr.	James	0.71	30,927.60	\$108,200.00	\$3.50	1,032.00	\$3,612.00	\$1,806.00	0.00	\$0.00	\$0.00	3	\$0.00	\$1,806

TOTALS:	\$65,258
Staff Contingency:	\$10,000
GM's Contingency	\$10,000
Amendment	
Total Budget:	\$85,258

Metropolitan Sewerage District of Buncombe County

BOARD ACTION ITEM

BOARD MEETING DATE: November 20, 2019

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

REVIEWED BY: Billy Clarke, Esq. - District Counsel

PREPARED BY: Ed Bradford, P.E. - Director of Engineering
Shaun Armistead, P.E. - Project Manager

SUBJECT: Consideration of Reimbursement for City of Asheville Haywood Streetscape Improvement Project: MSD Walnut Street @ Rankin Avenue Sanitary Sewer Rehabilitation Project, MSD Project No. 2014018

BACKGROUND: This project is located near the center of downtown Asheville, within the Central Business District. It consists of replacing old and problematic six-inch clay lines that are in poor structural condition. These lines are among the oldest in the MSD system - some dating back to the early 1900's.

The sewer rehabilitation project is being coordinated with a larger City of Asheville project - the Haywood Streetscape Improvement Project. This comprehensive project includes water, sewer, sidewalks, stormwater, and paving. There have been 14 formal meetings for the project, including review by multiple city commissions and committees.

Construction will be difficult due to the limited work areas, restricted equipment access, traffic control, pedestrian safety, etc. The project is planned to begin in January 2020, with the total construction time expected to last approximately one year.

The total project length of the sewer portion is 2,195 LF of 8-inch DIP. The sewer work extends outside of the City's project limits; however, the City has incorporated the entire sewer project within the City contract.

Due to the difficult nature of this project, contractors were prequalified to bid, with four being qualified. The contract was advertised and two bids were received on October 1, 2019. The contract was therefore readvertised and two bids were again received on October 10, 2019 in the following amounts:

<u>Contractor</u>	<u>Overall Bid</u>	<u>Sewer Portion</u>
1) Thomas Const. Co.	\$6,145,128.00	\$2,168,477.30
2) Tennoca Const. Co.	\$5,324,017.00(*)	\$2,210,441.00(*)

(*) Indicates correction in contractor's bid amount for the sewer portion.

The apparent low bidder is Tennoca Const. Co, with a bid amount of \$5,324,017.00. T&K Utilities is the subcontractor performing the water and sewer work. They have extensive experience with District projects, and they are a competent contractor.

Bids came in significantly over budget for all aspects of the project. Therefore, in accordance with *NCGS 143-129*, City and District staff met with Tennoca and T&K Utilities on October 22, 2019 in order to determine ways to reduce project costs.

After the meeting, Tennoca submitted reduced pricing as follows:

Original Bid (Sewer Only):	\$2,210,441.00
Negotiated Bid (Sewer Only):	\$1,554,120.00

The reduced bid pricing represents a \$656,321.00 decrease from the original bid price, or 29.7%. This decrease is the result of the contractor reducing certain unit bid prices, in addition to scope and quantity changes where staff felt reductions were within reason.

The FY19-20 budget for the sewer portion is \$1,310,000.00. The new overage is \$244,120.00 (or 18.6%) and appears to be reasonable given the difficult nature of this project. Based upon the strong public interest in this project combined with the coordination of the various divisions of work, staff believes it would be in MSD's best interest to proceed with this project.

This project is being completed under the City of Asheville's contract. City staff is adding a 10% contingency to the contract, including the sewer portion, which gives a total amount of **\$1,709,532.00**. It is important to note that the contingency may or may not be necessary, but is added so that City staff do not have to go back to City Council for approval of minor Change Orders.

If approved, the District will make periodic payments to the City for the completed sewer portion, as construction progresses. The sewer portion will be inspected and approved by District staff prior to all reimbursements being issued to the City.

Please refer to the attached documentation for further details, including the original versus negotiated bid pricing.

FISCAL IMPACT: The FY19-20 Construction Budget for this project is \$1,310,000.00. The negotiated sewer portion of the City's project is \$1,554,120.00. The 10% contingency added by the City brings the total to \$1,709,532.00.

Construction of this project will cross two fiscal years; therefore, the project budget will be adjusted during the FY20-21 budget process.

STAFF RECOMMENDATION: Staff recommends approval of periodic reimbursement to the City of Asheville for the sewer portion only, in the amount of \$1,554,120.00, with a 10% contingency in accordance with the City contract, giving a total amount of up to \$1,709,532.00.

The City and the District will enter into a Memorandum of Understanding for the cost-sharing portion of the project, subject to review and approval by District Counsel.



City of Asheville Bid Tab Form

PROJECT: x1709 HAYWOOD STREETSCAPE

BID DATE: 10/01/2019; 2:00PM

LOCATION: 161 S. CHARLOTTE ST. 2ND FLOOR CONF RM.

PREQUALIFIED BIDDER	BID BOND	ADDENDUMS NOTED	STREETSCAPE BASE BID	MSD BASE BID	WATER BASE BID	ALTERNATE #01	ALTERNATE #02	ALTERNATE #03	ABI FORMS INCLUDED
NHM CONSTRUCTORS, LLC									
TENNOCA CONSTRUCTION CO.	✓	1,2 ✓	\$2,295,646.00	\$2,209,411.00	\$817,930.00	\$491,266.00	\$177,910.00	\$193,000.00	1,3,4
THOMAS CONSTRUCTION CO.	✓	✓	\$3,285,421.70	\$2,168,477.30	\$691,229.00	\$386,550.00	\$107,150.00	\$265,000.00	1,3
YOUNG & MCQUEEN GRADING, INC.									

DUSTIN CLEMENS
(Print or Type Name of City of Asheville Rep)

[Signature]
(Signature)

10/10/19
(Date)

SHAWN ARMISTEAD
(Print or Type Name of MSD Rep)

[Signature]
(Signature)

10/6/19
(Date)

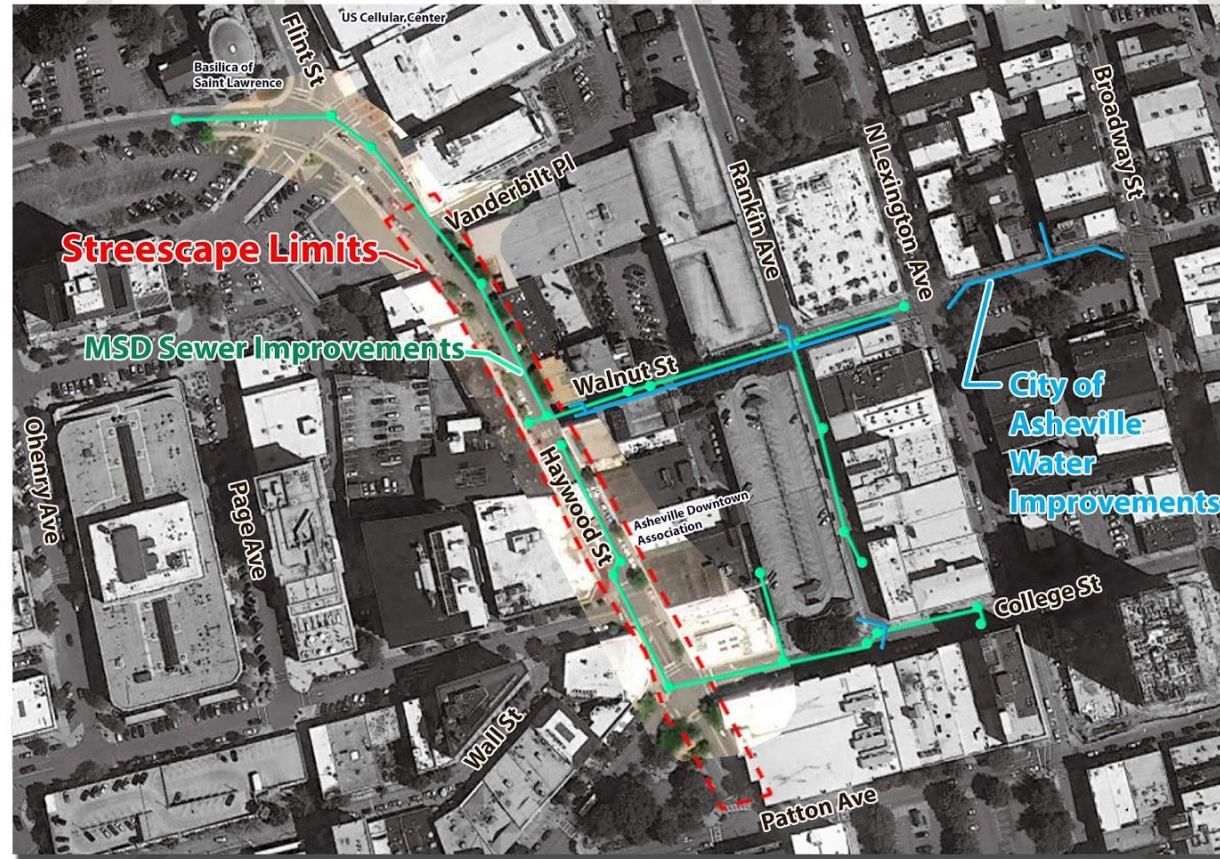
(Print or Type Name of A/E)

(Signature)

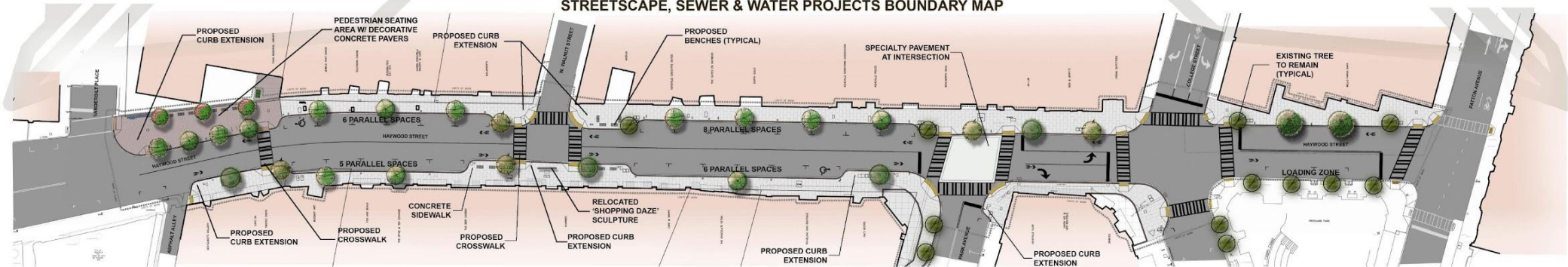
(Date)

HAYWOOD STREET STREETScape AND SEWER IMPROVEMENTS

CITY OF ASHEVILLE



STREETSCAPE, SEWER & WATER PROJECTS BOUNDARY MAP



EXTENT OF STREETSCAPE IMPROVEMENTS

Interoffice Memorandum

TO: Tom Hartye, General Manager

FROM: Ed Bradford, Engineering Director
Shaun Armistead, Project Manager

DATE: November 7, 2019

RE: Walnut St @ Rankin Ave Sewer Rehabilitation, MSD Project # 2014018

This project, comprised of 2,495 LF of 8" DIP, is located in downtown Asheville. The District's sewer rehabilitation project is being constructed in conjunction with the City of Asheville's Haywood Streetscape Project, as well as the COA Water Department's Walnut Street waterline replacement project. The City of Asheville's Capital Projects Division is administering the construction phase of these projects, with MSD providing support and inspection pertaining to the sewer line construction. Costs for the restoration of the road surface are being shared by MSD and COA, where project limits overlap, in accordance with the cost-share agreement signed January 11, 2019.

The current sewer pipe is 6-inch VCP, with many structural problems. The Pipe Rating for this project is 54, due to the high SSO likelihood. This system has had 4 flooded structures and 2 manhole overflows recorded in the past 10 years. The area is composed of high density commercial and residential units, with many restaurants in the area.

Contractors went through a pre-qualification process in order to bid on this project. The project was advertised and two bids were received on October 1, 2019, so the project was readvertised and two bids were again received on Thursday, October 10, 2019, as follows:

<u>Contractor</u>	<u>Overall Bid</u>	<u>Sewer Bid</u>
1) Thomas Construction Co.	\$6,145,128.00	\$2,168,477.30
2) Tennoca Construction Co.	\$5,324,017.00(*)	\$2,210,441.00(*)

(*) Indicates correction in contractor's bid amount for the sewer portion.

Thomas Construction Company listed no sub-contractor for the sewer and water work. Tennoca Construction Company listed T&K Utilities as the sub-contractor for the sewer and water work.

Tennoca Construction Company is the apparent low bidder for this project, pending review of the bids by City of Asheville staff. MSD's budget for the sewer line replacement is \$1,310,000. A 10% contingency was applied in the bid pricing to allow City staff to work quickly with the contractor to resolve any unknown issues encountered during construction, rather than delaying construction by waiting until City Council can weigh in. The amounts above do not include the 10% add-on.

Bids for this project came in significantly over the COA and MSD engineers' construction estimates for nearly all aspects of the project. Highest price differences in the sewer bid include:

- **8" DIP** (Bid Price \$350/LF, Budget Price \$160/LF @ 2,495 LF)
- **4" PVC** (Bid Price \$320/LF, Budget Price \$ 75/LF @ 450 LF)
- **Service Line Exploratory Dig** (Bid Price \$5,200/EA, Budget Price \$750/EA @ 30)

During a meeting of the design team on Monday October 14, bid pricing and options for reducing the bid cost of the project were discussed. Negotiation with the low bidder was discussed as the first option, and should a mutually agreeable price not be reached, the possibility of re-budgeting and re-advertising for FY 20-21 was discussed.

A negotiation meeting was held with Tennoca, T&K, MSD, and City staff on October 22, 2019. A reduction in pricing on selected bid items was discussed, as well as some reductions in quantities and limited reduction in project scope. Tennoca/T&K submitted revised pricing based on these negotiations on October 25, 2019. The sewer-only portion is shown below:

<u>Contractor</u>	<u>Original Bid</u>	<u>Negotiated Bid</u>
Tennoca Const. Co.	\$2,210,441	\$1,554,120

Note that the revised sewer construction bid price is now \$1,554,120.00. The FY19-20 budget is \$1,310,000.00, which results in an overage of \$244,120.00, or 18.6%. Given the difficult nature of this project and that the negotiated price is substantially lower than the original bid price, District staff recommend that we proceed with the current contractor.

This contract is being managed by the City of Asheville, and they are adding a 10% contingency to the contract quantities. The revised total for the sewer construction, including this 10% contingency, is **\$1,709,532** (see attached revised pricing spreadsheet).

City of Asheville staff found the revised pricing for the Haywood Streetscape portion of the project favorable, although still over their initial budget. Revised pricing for the waterline construction portion was deemed high; however, water staff have decided to proceed with Tennoca as opposed to bidding this portion themselves.

City of Asheville and Metropolitan Sewerage District staff have attended extensive public meetings with stakeholders in the affected area of the central business district, beginning back in September 2018. City staff has also kept the public informed of news regarding this project on their website: <https://www.ashevollenc.gov/departement/community-economic-development/projects/haywood-street-streetscape/>.

Based upon the reduced contractor pricing and taking into account the significant public impact, public interest, and the published schedule of this project, the City of Asheville and Metropolitan Sewerage District staff believe that the best course of action is to move forward with the projects as scheduled to begin in early January 2020.

Bid Analysis Haywood Streetscape - MSD Portion				Tennoca Original Bid 10/10/2019		Tennoca Negotiated Bid 10/25/2019			
ITEM	DESCRIPTION	QUAN.	UNIT	UNIT PRICE	TOTAL	V/E QTY	V/E UNIT PRICE	TOTAL V/E PRICE	NOTES
SANITARY SEWER REHABILITATION									
METROPOLITAN SEWERAGE DISTRICT OF BUNCOMBE COUNTY									
MP-5.01	Mobilization (3.0%)	1	LS	\$ 66,000	\$ 66,000	1	\$ 54,000.00	\$ 54,000.00	
MP-5.02.8(d)	8" Dip (class 350) All Depths	2,495	LF	\$ 350	\$ 873,250	2,195	\$ 301.00	\$ 660,695.00	
MP-5.02.6(p)	6" PVC All Depths, Including Bedding	20	LF	\$ 350	\$ 7,000	20	\$ 237.00	\$ 4,740.00	
MP-5.02.4(p)	4" PVC (sch 40) All Depths, Including Bedding	450	LF	\$ 320	\$ 144,000	450	\$ 230.00	\$ 103,500.00	
MP-5.03.4(s)	4' Diameter Standard Manhole 0-6 ft.	21	EA	\$ 4,000	\$ 84,000	18	\$ 3,300.00	\$ 59,400.00	
MP-5.04(s)	Additional Standard Manhole Depth	53	VF	\$ 600	\$ 31,800	38	\$ 308.00	\$ 11,704.00	
MP-5.05.4	8"x8"x4" DI Wye	28	EA	\$ 900	\$ 25,200	28	\$ 700.00	\$ 19,600.00	
MP-5.06.4	4" Cleanout Assembly	32	EA	\$ 700	\$ 22,400	32	\$ 750.00	\$ 24,000.00	
MP-5.06.6	6" Cleanout Assembly	2	EA	\$ 700	\$ 1,400	2	\$ 800.00	\$ 1,600.00	
MP-5.07(l)	Plug and Abandon Sewerline	9	EA	\$ 2,300	\$ 20,700	10	\$ 900.00	\$ 9,000.00	
MP-5.08	Abandon Manhole, Including Plugs	9	EA	\$ 4,000	\$ 36,000	10	\$ 1,400.00	\$ 14,000.00	
MP-5.10	Connect to Existing Manhole	2	EA	\$ 8,000	\$ 16,000	2	\$ 8,000.00	\$ 16,000.00	
MP-5.12	Pipe Embedment Material	30	CY	\$ 70	\$ 2,100	22	\$ 70.00	\$ 1,540.00	
MP-5.13	Compacted Aggregate Base Course	300	CY	\$ 110	\$ 33,000	225	\$ 110.00	\$ 24,750.00	
MP-5.14	Select Backfill Material	1,100	CY	\$ 95	\$ 104,500	800	\$ 95.00	\$ 76,000.00	USE UNIT PRICE / USE CONTINGENCY FUNDS
MP-5.15	Rock Excavation	600	CY	\$ 60	\$ 36,000	175	\$ 60.00	\$ 10,500.00	USE UNIT PRICE / USE CONTINGENCY FUNDS
MP-5.20	Service Line Exploratory Dig	30	EA	\$ 5,200	\$ 156,000	15	\$ 2,000.00	\$ 30,000.00	
MP-5.21.6(b)	Bituminous Pavement Repairs Type I-19.0 B) 6" Depth	475	SY	\$ 80	\$ 38,000	475	\$ 80.00	\$ 38,000.00	
MP-5.21.2(s)	Bituminous Asphalt Resurfacing (Type SF 9.5B) 2" MIN. Depth	2,350	SY	\$ 40	\$ 94,000	1,900	\$ 40.00	\$ 76,000.00	
MP-5.24	Concrete Curb & Gutter Replacement to Match Existing	1,000	LF	\$ 82	\$ 82,000	1,000	\$ 82.00	\$ 82,000.00	
MP-5.27	Pavement Milling 2"	2,350	SY	\$ 30	\$ 70,500	1,900	\$ 30.00	\$ 57,000.00	
MP-COA1	Removal of Asphalt	1,736	SY	\$ 22	\$ 38,192	1,736	\$ 22.00	\$ 38,192.00	
MP-COA2	Variable Asphalt Mill	1,212	SY	\$ 20	\$ 24,240	1,212	\$ 20.00	\$ 24,240.00	
MP-COA3	Thermoplastic Markings 4" 120 MILS	640	LF	\$ 2	\$ 1,280	640	\$ 2.00	\$ 1,280.00	
MP-COA4	Thermoplastic Markings 4" 90 MILS	194	LF	\$ 2	\$ 388	194	\$ 2.00	\$ 388.00	
MP-COA5	Thermoplastic Markings 24" 120 MILS	106	LF	\$ 12	\$ 1,272	106	\$ 12.00	\$ 1,272.00	
MP-COA6	Thermoplastic Markings - Arrows and Symbols 90 MILS	13	EA	\$ 600	\$ 7,800	13	\$ 600.00	\$ 7,800.00	
MP-COA7	Thermoplastic Markings 12" 120 MILS	844	LF	\$ 5	\$ 4,220	844	\$ 5.00	\$ 4,220.00	
MP-COA8	Thermoplastic Markings 8" 120 MILS	397	LF	\$ 7	\$ 2,779	397	\$ 7.00	\$ 2,779.00	
MP-COA9	Full Depth Asphalt Replacement	1,357	SY	\$ 100	\$ 135,700	1,357	\$ 100.00	\$ 135,700.00	
MP-COA10	Asphalt Overlay -Variable	1,268	SY	\$ 40	\$ 50,720	1,268	\$ 40.00	\$ 50,720.00	
CONSTRUCTION SUBTOTAL					\$ 2,210,441			\$ 1,554,120.00	-29.7%
CONTINGENCY (10%)					\$ 221,044			\$ 155,412.00	
MSD PROJECT COST					\$ 2,431,485			\$ 1,709,532.00	-29.7%

Indicates mathematical error on original bid (corrected).

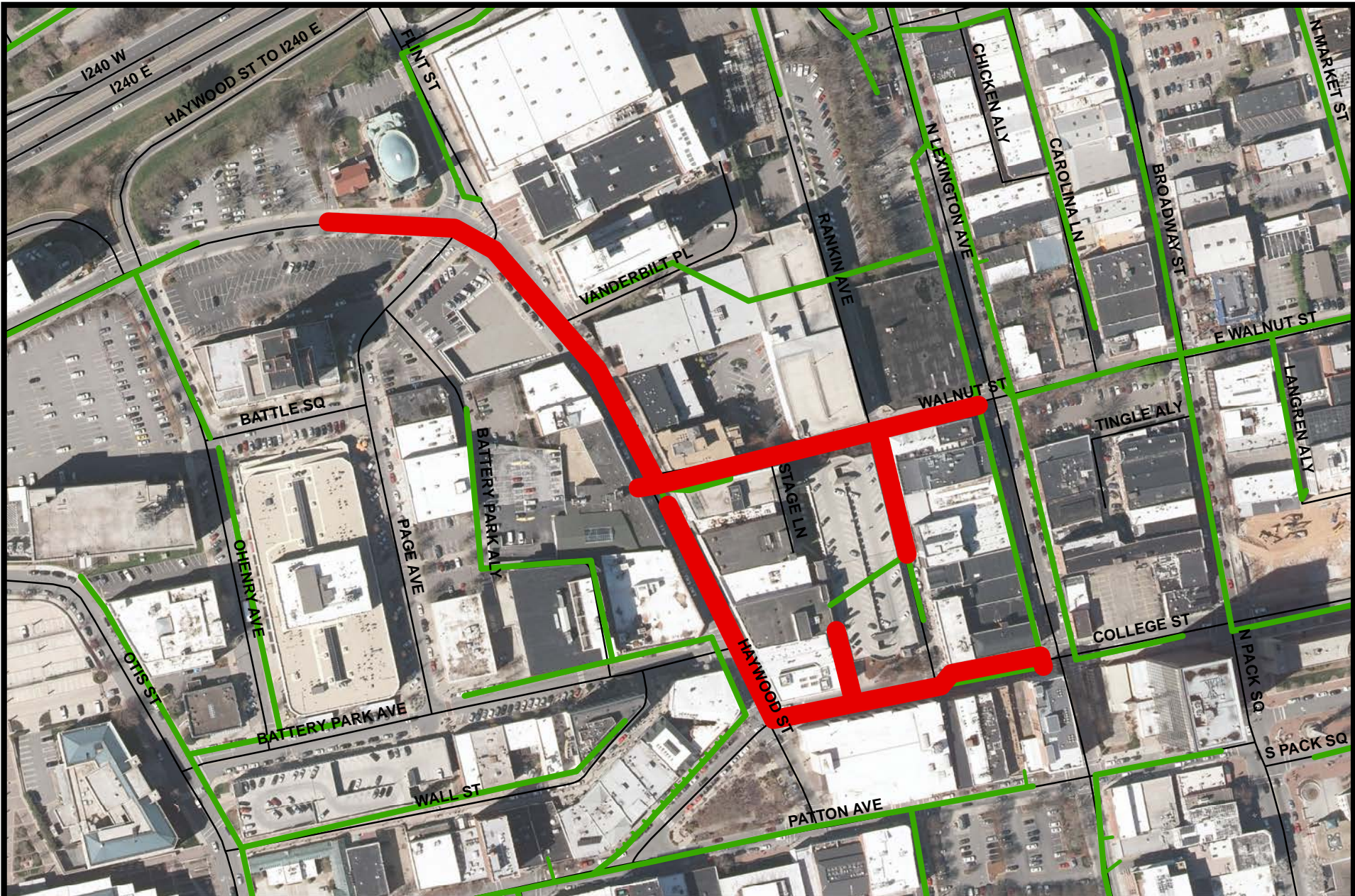
**Metropolitan Sewerage District of Buncombe County, North Carolina
CAPITAL IMPROVEMENT PROGRAM**

BUDGET DATA SHEET - FY 2019 - 2020

PROJECT:	Walnut Street @ Rankin Ave.	LOCATION:	Asheville
TYPE:	General Sewer Rehab.	PIPE RATING:	54
PROJECT NO.	2014018	TOTAL LF:	2,495
PROJECT BUDGET:	\$1,359,100.00	PROJECT ORIGIN:	Access, Line Condition

DESCRIPTION	ESTIMATED PROJECT COST	TOTAL EXPENDS THRU 12/31/18	EST. COST JAN - JUNE 2019	BUDGET FY 19-20
55310 - PRELIM. ENGINEERING				
55320 - SURVEY - DESIGN	\$18,500.00	\$9,900.00	\$8,600.00	
55330 - DESIGN				
55340 - PERMITS	\$500.00			\$500.00
55350 - SPECIAL STUDIES				
55360 - EASEMENT PLATS				
55370 - LEGAL FEES				
55380 - ACQUISITION SERVICES				
55390 - COMPENSATION				
55400 - APPRAISAL				
55410 - CONDEMNATION				
55420 - CONSTRUCTION	\$1,310,000.00			\$1,310,000.00
55430 - CONST. CONTRACT ADM.	\$27,000.00			\$27,000.00
55440 - TESTING	\$1,000.00			\$1,000.00
55450 - SURVEY - ASBUILT	\$2,100.00			\$2,100.00
TOTAL AMOUNT	\$1,359,100.00	\$9,900.00	\$8,600.00	\$1,340,600.00

ENGINEER:	MSD	SA	ESTIMATED BUDGETS - FY 21 - 29	
R.O.W. ACQUISITION:	MSD	# PLATS: [0]	FY 20-21	\$0.00
CONTRACTOR:			FY 21-22	\$0.00
CONSTRUCTION ADM:	MSD		FY 22-23	\$0.00
INSPECTION:	MSD		FY 23-24	\$0.00
			FY 24-25	\$0.00
PROJECT DESCRIPTION: This project is located in downtown Asheville and consists of 2,495 LF of 8-inch ductile iron pipe. The current 6-inch clay line is undersized and deteriorated, with many structural problems.			FY 25-26	\$0.00
			FY 26-27	\$0.00
			FY 27-28	\$0.00
			FY 28-29	\$0.00
SPECIAL PROJECT NOTES:	This project is being coordinated with a larger City of Asheville project in the downtown area.			



**Walnut Street at Rankin Avenue
Project No. 2014018**

NOT TO SCALE



METROPOLITAN SEWERAGE DISTRICT
of
BUNCOMBE COUNTY, NORTH CAROLINA

Budget Map

Metropolitan Sewerage District of Buncombe County Board Action Item

Meeting Date: November 20, 2019

Subject: Procurement of New Dump Truck - Fleet Replacement

Prepared by: Scott Powell, CLGFO; Finance Director
Julie Willingham, CLGPO; Purchasing Supervisor
Neil Hall; Fleet Manager

Reviewed by: Tom Hartye, General Manager
Billy Clarke, District Counsel

Background: The District's policy is to annually evaluate the condition of fleet vehicles and purchase replacements when the estimated cost of repair and maintenance will exceed the cost of a new vehicle. At the March 13, 2019, Equipment Replacement Committee meeting, the members recommended the purchase of one (1) New Dump Truck Replacement, as presented to this Board for approval. Funds for this purchase were included in the 2019-2020 Budget.

Discussion: Pursuant to North Carolina Purchasing Statutes and MSD Procedures, bids for the dump truck were emailed to five (5) truck dealerships and an advertisement placed on the MSD web site. Five (5) bid packages were received and opened on October 29, 2019, at 2 pm. The Freightliner bid was the lowest responsive, responsible bidder to the MSD specifications. The bids are summarized below. Because the cost of this dump truck procurement exceeds \$90,000.00, the contract must receive Board approval for award.

Fiscal Impact: The total cost of this contract will be \$131,422.00. \$145,000.00 was budgeted for this item budgeted in the 2019-2020 Fleet Replacement Fund.

Staff Recommendation: Staff recommends that the bid from Freightliner be awarded.

Vendor	Dump Truck Cost (each)	Comments
MHC Kenworth, Hickory, NC	\$178,330.00	Model T880
Western Star, Asheville, NC	\$140,402.00	Model SB4700
International/Rush Truck, Charlotte, NC	\$150,424.00	Model HX620
Peterbilt of Charlotte/TLG, Charlotte, NC	\$160,335.00	Model 567
Freightliner/WC Freightliner, Asheville, NC	\$131,422.00	Model 114SD
Peterbilt of Greenville, Greenville, SC	Did not submit a quote	

**ROBERTS
& STEVENS**
ATTORNEYS AT LAW

MARC RUDDOW*
WILLIAM CLARKE
VINCENT D. CHILDRESS, JR.
GREGORY D. HUTCHINS
WYATT S. STEVENS
JACQUELINE D. GRANT
DAVID L. ENGLISH
F. LACHICOTTE ("LACH") ZEMP, JR.
KENNETH R. HUNT
DENNIS L. MARTIN, JR.
ANN-PATTON HORNTAL
PHILLIP T. JACKSON

*DRC CERTIFIED MEDIATOR

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JOHN W. TOTH
KATHRYN MAULTSBY MADISON
L. ASHLEY SAVILLE-AMTOWER
ELIZABETH TRAMM DECHANT
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FOUNDERS
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(1921-2007)
JOHN S. STEVENS
(1933-2019)

Writer's Direct Phone: 828/258-6919
Writer's E-mail: bclarke@roberts-stevens.com

November 4, 2019

Ms. Julie Willingham, CLGPO
Purchasing Supervisor
MSD
2028 Riverside Drive
Asheville, NC 28804

Via E-mail: JWillingham@msdbc.org

Re: Purchase of 2020 Dump Truck

Dear Julie:

I have received and reviewed the Bid Specifications and Proposals for the purchase of the 202 Dump Truck. As this is a purchase of equipment with an estimated cost exceeding \$90,000, MSD was required to advertise in accordance with the requirements of N.C. Gen. Stats. § 143-129. I understand that was done. MSD received five proposals from the bidders listed below in the amounts indicated.

MHC Kenworth	\$178,330.00
Western Start	\$140,402.00
Freightliner	\$131,422.00
International/Rush Ent.	\$150,424.00
Peterbilt of Charlotte	\$160,335.00

The District may proceed to award the bid to the lowest responsible responsive bidder. Please let me know if you have questions.

Sincerely,

ROBERTS & STEVENS, P.A.


William Clarke

BC/sh

Metropolitan Sewerage District of Buncombe County

Board Action Item

BOARD MEETING DATE: November 20, 2019

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

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

PREPARED BY: Kevin Johnson, P.E. - Planning and Development Manager

SUBJECT: Acceptance of Developer Constructed Sewer System for the Fernwood Avenue Sewer Extension, MSD Project No. 2017251

BACKGROUND: This project is located inside the District boundary along Fernwood Avenue in the City of Asheville. The developer of the project is Marie Reed of WNC Homeowner, LLC.

The project included extending approximately 365 linear feet of 8-inch public gravity sewer to serve the single-family residential development.

A wastewater allocation was issued in the amount of 900 GPD for three (3) residential units for this project. The estimated cost of the sewer construction is \$38,000.00.

All MSD requirements have been met.

STAFF RECOMMENDATION: Staff recommends acceptance of this developer constructed sewer system.



MSD
Engineering Division

Fernwood Avenue Sewer Extension MSD Project # 2017251

Metropolitan Sewerage District of Buncombe County

11/05/19

Metropolitan Sewerage District of Buncombe County

Board Action Item

BOARD MEETING DATE: November 20, 2019

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

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

PREPARED BY: Kevin Johnson, P.E. - Planning and Development Manager

SUBJECT: Acceptance of Developer Constructed Sewer System for the Fields BMW Sewer Relocation, MSD Project No. 2018022

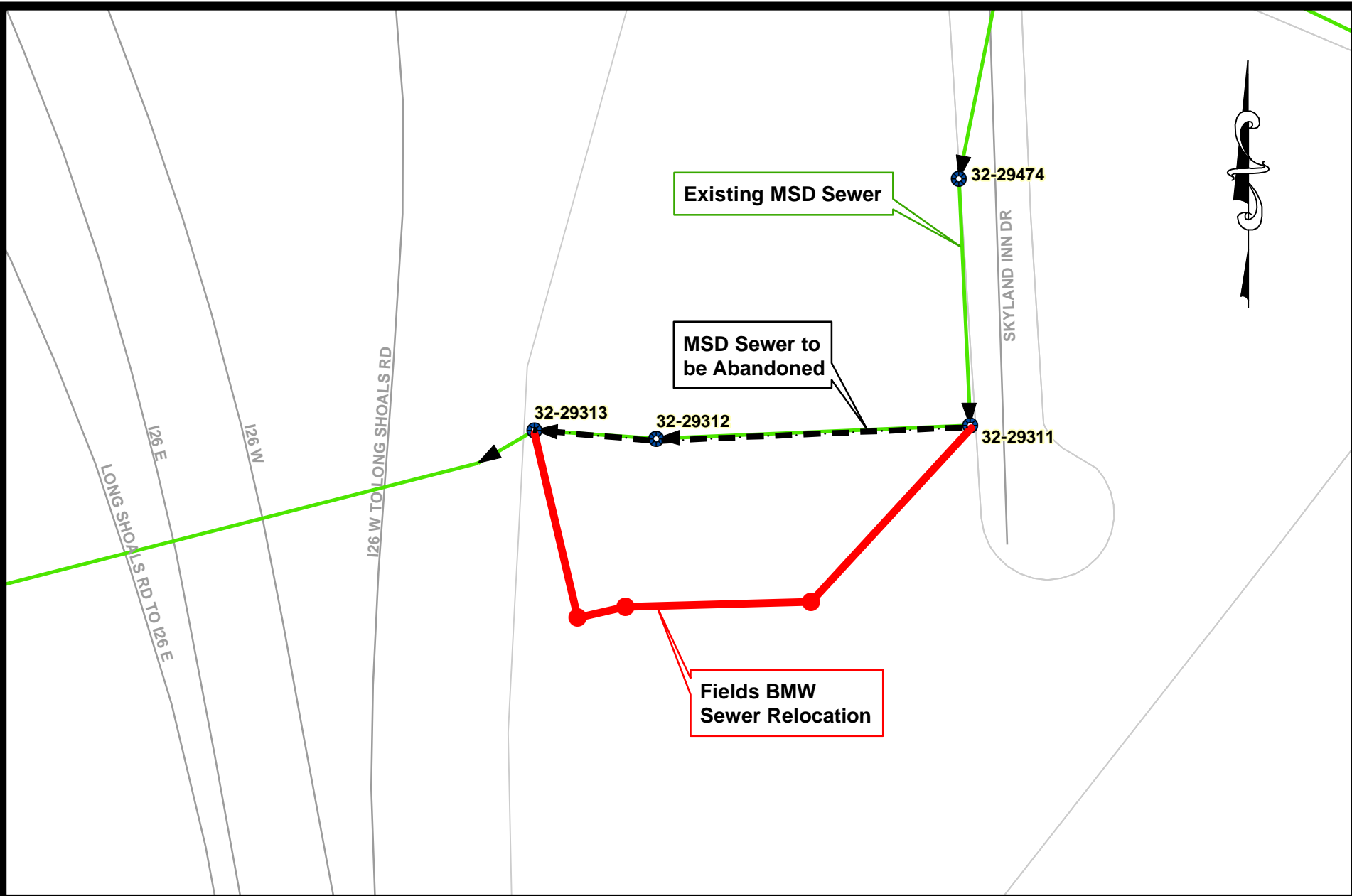
BACKGROUND: This project is located inside the District boundary along Skyland Inn Drive in the City of Asheville. The developer of the project is Shermin Pelinski of Lib Ash, LLC.

The project included relocating approximately 484 linear feet of 8-inch public gravity sewer along with abandoning approximately 320 linear feet of 8-inch public sewer in order to accommodate the commercial development.

A wastewater allocation was issued in the amount of 4,875 GPD for the automobile dealership. The estimated cost of the sewer construction is \$104,447.00.

All MSD requirements have been met.

STAFF RECOMMENDATION: Staff recommends acceptance of this developer constructed sewer system.



Existing MSD Sewer

MSD Sewer to be Abandoned

Fields BMW Sewer Relocation



MSD
Engineering Division

**Fields BMW Sewer Relocation
MSD Project # 2018022**

Metropolitan Sewerage District of Buncombe County

11/04/19

Metropolitan Sewerage District of Buncombe County

Board Action Item

BOARD MEETING DATE: November 20, 2019

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

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

PREPARED BY: Kevin Johnson, P.E. - Planning and Development Manager

SUBJECT: Acceptance of Developer Constructed Sewer System for the Grove Park Views Sewer Extension, MSD Project No. 2018239

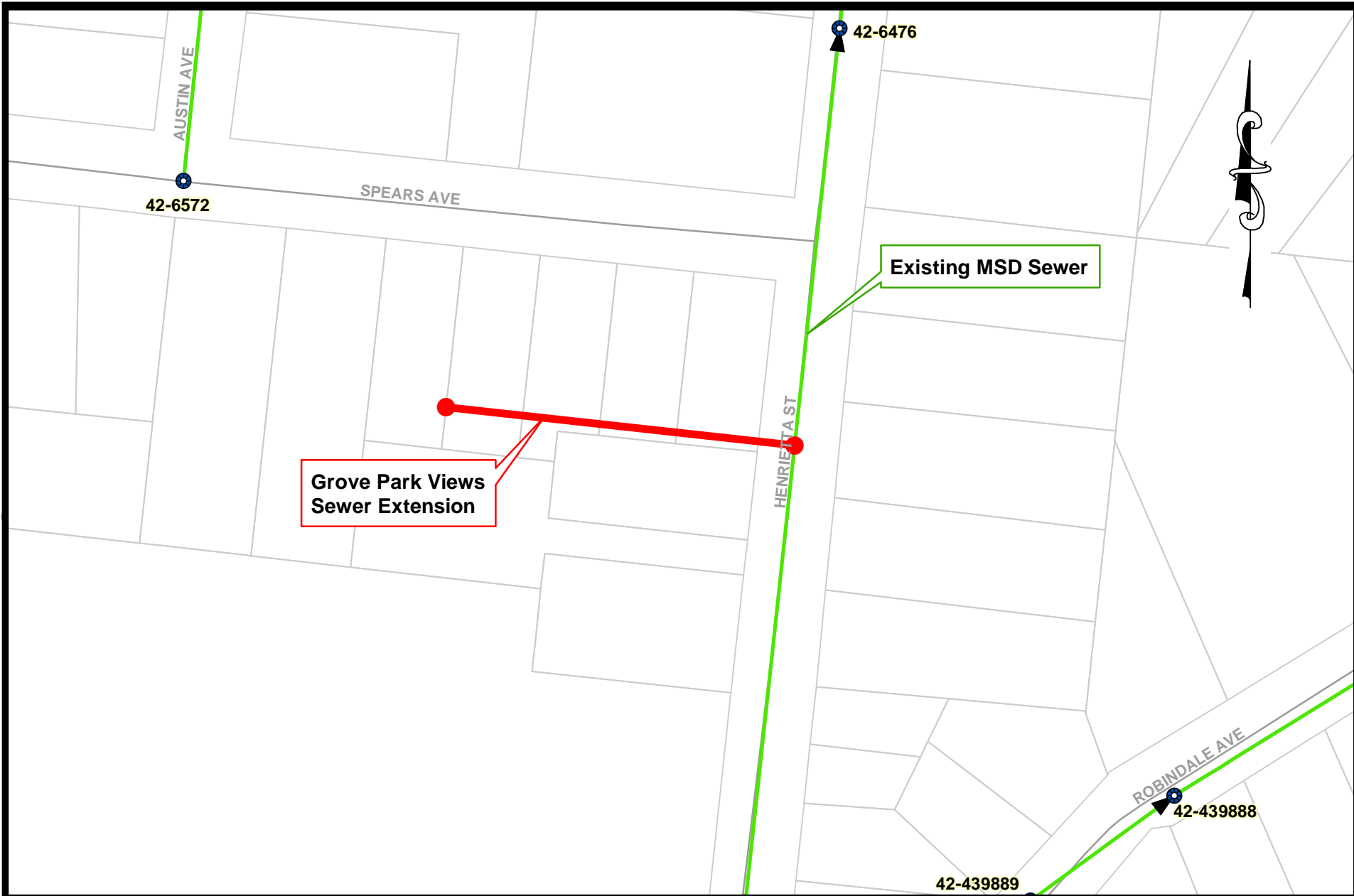
BACKGROUND: This project is located inside the District boundary at Henrietta Street and Spears Avenue in the City of Asheville. The developer of the project is Marie Reed of WNC Homeowner, LLC.

The project included extending approximately 150 linear feet of 8-inch public gravity sewer to serve the single family residential development.

A wastewater allocation was issued in the amount of 2,100 GPD for seven (7) residential units for this project. The estimated cost of the sewer construction is \$38,000.00.

All MSD requirements have been met.

STAFF RECOMMENDATION: Staff recommends acceptance of this developer constructed sewer system.



MSD
Engineering Division

Grove Park Views Sewer Extension MSD Project # 2018239

Metropolitan Sewerage District of Buncombe County

11/05/19

Metropolitan Sewerage District of Buncombe County

Board Action Item

BOARD MEETING DATE: November 20, 2019

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

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

PREPARED BY: Kevin Johnson, P.E. - Planning and Development Manager

SUBJECT: Acceptance of Developer Constructed Sewer System for the Lausch Subdivision Sewer Extension, MSD Project No. 2016153

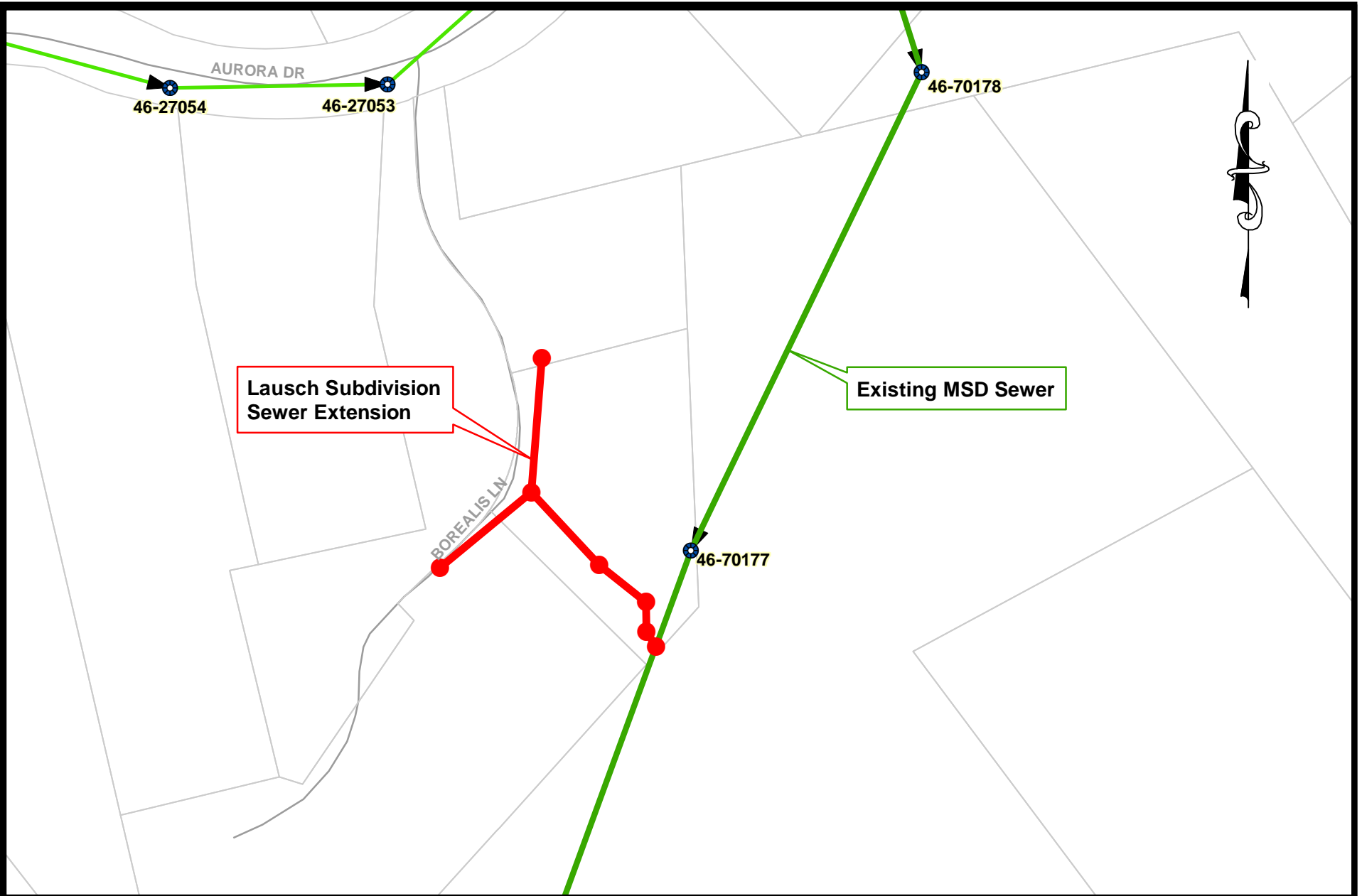
BACKGROUND: This project is located inside the District boundary off Aurora Drive in the City of Asheville. The developer of the project is Erin Lausch of Lausch REI.

The project included extending approximately 285 linear feet of 8-inch public gravity sewer to serve the single-family residential development.

A wastewater allocation was issued in the amount of 1,200 GPD for four (4) residential units for this project. The estimated cost of the sewer construction is \$50,252.00.

All MSD requirements have been met.

STAFF RECOMMENDATION: Staff recommends acceptance of this developer constructed sewer system.



MSD
Engineering Division

**Lausch Subdivision Sewer Extension
MSD Project # 2016153**

Metropolitan Sewerage District of Buncombe County

11/04/19

Metropolitan Sewerage District of Buncombe County

BOARD INFORMATIONAL ITEM

Meeting Date: November 20, 2019
Submitted By: Thomas E. Hartye, PE., General Manager
Prepared By: W. Scott Powell, CLGFO, Director of Finance
Subject: First Quarter Budget to Actual Review – FY2020

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 September 30, 2019 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 and Industrial revenues are at budgeted expectations. Staff monitors consumption trends as they have a direct effect on the District's current revenue projections.
- ✦ Facility and Tap Fees are budgeted conservatively. The better than expected variance as of the end of the first quarter is due to receiving unanticipated revenue of \$137,276 from one (1) development.
- ✦ Interest and miscellaneous income are below budgeted expectations. Actual short-term interest rates are lower than anticipated for the fiscal year.
- ✦ Rental income reflects slightly better than expected earnings.
- ✦ O&M expenditures are at 31.78% of budget. The expenditures included encumbered amounts, which has elevated the budget to actual ratio above 25%. The aforementioned encumbrances will be spent in future quarters.

Meeting Date: November 20, 2019
Subject: First Quarter Budget to Actual Review – FY2020
Page 2

Discussion(continued)

- + Bond principal and interest are reflected at 25%. This will aid the user to properly assess the District's overall debt service commitments. Actual amount spent is 2.10% The District is required to make semi-annual interest payments on December 1, 2019 and principal and semi-annual interest payments on July 1, 2020.

- + Amounts budgeted for capital equipment and capital projects are rarely expended proportionately throughout the year and are expected to be fully spent prior to the end of the fiscal year.

Staff Recommendation

None - Information Only.

<u>Action Taken</u>			
Motion by:	to	<input type="checkbox"/> Approve	<input type="checkbox"/> Disapprove
Second by:		<input type="checkbox"/> Table	<input type="checkbox"/> Send to Committee
Other:			
Follow-up required:			
Person responsible:		Deadline:	

Metropolitan Sewerage District
Budget to Actual Revenue and Expenditure Report
For the three months ended September 30, 2019
UNAUDITED--NON-GAAP

	Budget	Actual to Date	% Budget to Actual
REVENUES			
Domestic User Fees ¹	\$ 33,623,113	\$ 8,669,782	25.79%
Industrial User Fees	3,464,402	963,567	27.81%
Facility Fees ²	2,000,000	681,335	34.07%
Tap Fees ³	175,000	164,236	93.85%
Billing and Collection	832,994	208,691	25.05%
Interest and Misc. Income	1,596,624	356,743	22.34%
Employee Contribution to Health Ins.	374,907	103,111	27.50%
City of Asheville (Enka Bonds)	35,000	-	0.00%
Rental Income	71,641	19,245	26.86%
Use of (Contributions to) Available Funds ⁴	<u>15,529,165</u>	<u>14,210,636</u>	<u>91.51%</u>
Total Revenues⁵	\$ <u>57,702,846</u>	\$ <u>25,377,346</u>	43.98%
EXPENDITURES			
Operations and Maintenance ⁶	\$ 17,058,661	\$ 5,421,775	31.78%
Bond Principal and Interest ⁷	9,834,367	2,458,592	25.00%
Capital Equipment (Other than O&M) ⁶	915,000	231,650	25.32%
Capital Projects ⁶	28,894,818	17,265,329	59.75%
Contingency	<u>1,000,000</u>	<u>-</u>	<u>0.00%</u>
Total Expenditures	\$ <u>57,702,846</u>	\$ <u>25,377,346</u>	43.98%

Notes:

- ① Revenues are accounted for on the cash basis method
- ② Increase due to unanticipated revenue from one (1) development at \$137,276
- 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
- ⑦ Bond principal and interest expenditures are reflected at 25%. Actual spent amount is 2.10%.

Metropolitan Sewerage District of Buncombe County

BOARD INFORMATIONAL ITEM

Meeting Date: November 20, 2019
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 September 30, 2019

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 September 30, 2019 were \$73,042,147. The detailed listing of accounts is available upon request. The average rate of return for all investments is 2.281%. 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 September 30, 2019 do not reflect contractual commitments or encumbrances against said funds. Shown below are the total investments as of September 30, 2019 reduced by contractual commitments, bond funds, and District reserve funds. The balance available for future capital outlay is \$17,968,356.

Total Cash & Investments as of 09/30/19		73,042,147
<i>Less:</i>		
Budgeted Commitments (Required to pay remaining FY20 budgeted expenditures from unrestricted cash)		
Construction Funds	(25,825,975)	
Operations & Maintenance Fund	<u>(13,708,420)</u>	
		(39,534,395)
Bond Restricted Funds		
Bond Service (Funds held by trustee):		
Funds in Principal & Interest Accounts	(51,063)	
FY19 Principal & Interest Due	<u>(9,560,513)</u>	
		(9,611,576)
District Reserve Funds		
Fleet Replacement	(841,114)	
Pump Replacement	(192,644)	
WWTP Replacement	(182,851)	
Maintenance Reserve	<u>(995,009)</u>	
		(2,211,619)
District Insurance Funds		
General Liability	(71,854)	
Worker's Compensation	(266,145)	
Post-Retirement Benefit	(1,988,564)	
Self-Funded Employee Medical	<u>(1,389,638)</u>	
		<u>(3,716,201)</u>
Designated for Capital Outlay		<u><u>17,968,356</u></u>

Meeting Date: November 20, 2019

Subject: Cash Commitment/Investment Report-Month Ended September 30, 2019

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: _____

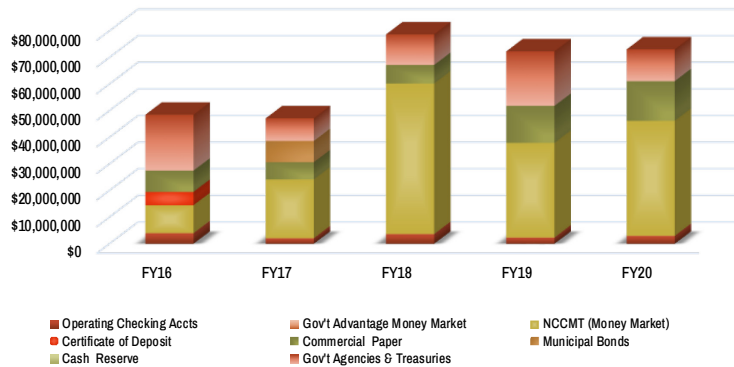
**Metropolitan Sewerage District of Buncombe County
Investment Portfolio**

Held with Bond Trustee
Held by MSD

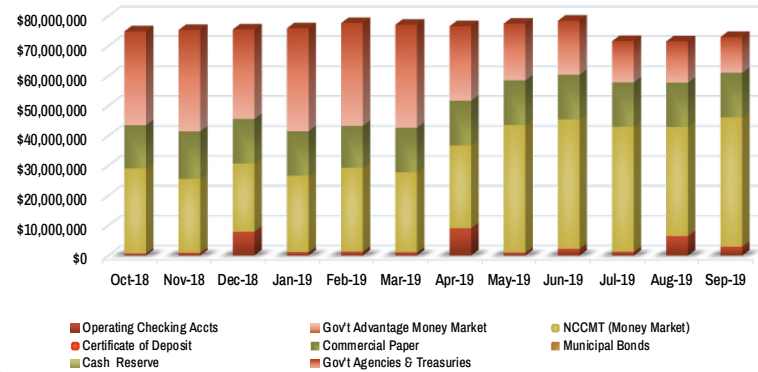
	Operating Checking Accounts	Gov't Advantage Money Market	NCCMT (Money Market)	Certificate of Deposit	Commercial Paper	Municipal Bonds	Cash Reserve	Gov't Agencies & Treasuries	Total
\$	-	-	51,063	-	-	-	-	-	51,063
	2,938,428	46,684	43,159,056	-	14,916,286	-	-	11,930,630	72,991,084
\$	2,938,428	46,684	43,210,119	-	14,916,286	-	-	11,930,630	73,042,147

Investment Policy Asset Allocation	Maximum Percent	Actual Percent	
U.S. Government Treasuries, Agencies and Instrumentalities	100%	16.33%	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 2.14% is exceeding the YTM benchmark of the NCCMT Government Portfolio.
Commercial Paper	20%	19.92%	
Municipal Bonds	100%	0.00%	
North Carolina Capital Management Trust	100%	59.67%	
Checking Accounts:	100%		All funds invested in CD's, operating checking accounts, Gov't Advantage money market are fully collateralized with the State Treasurer.
Operating Checking Accounts		4.02%	
Gov't Advantage Money Market		0.06%	

**MSD of Buncombe County
Investment Portfolio - As of September 30, 2019**



**MSD of Buncombe County
Investment Portfolio - 12 Month Trend**



**Metropolitan Sewerage District
 INVESTMENT MANAGERS' REPORT
 At September 30, 2019**

Summary of Asset Transactions

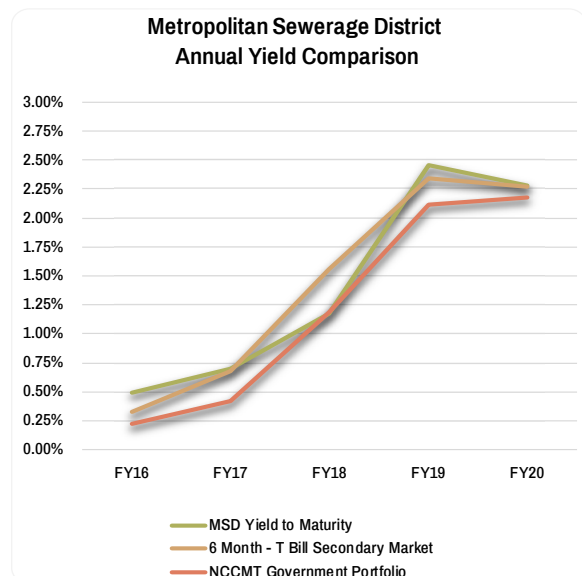
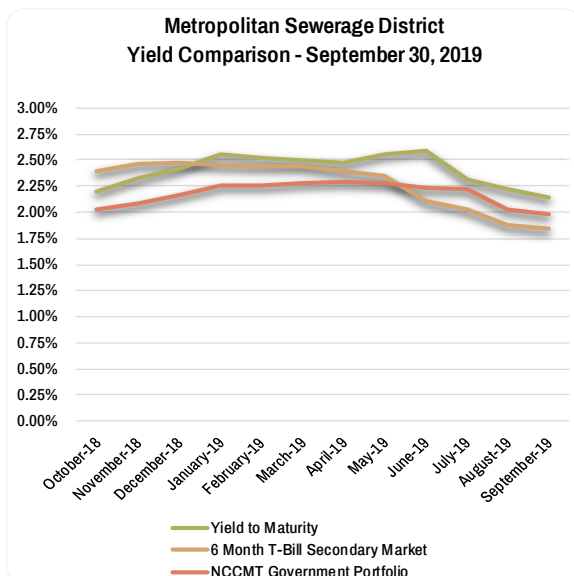
	Original Cost	Market	Interest Receivable
Beginning Balance	\$ 62,184,090	\$ 62,204,278	\$ 110,522
Capital Contributed (Withdrawn)	4,858,098	4,858,098	
Realized Income	88,438	88,438	(40,201)
Unrealized/Accrued Income		28,632	18,444
Ending Balance	<u>\$ 67,130,626</u>	<u>\$ 67,179,446</u>	<u>\$ 88,765</u>

Value and Income by Maturity

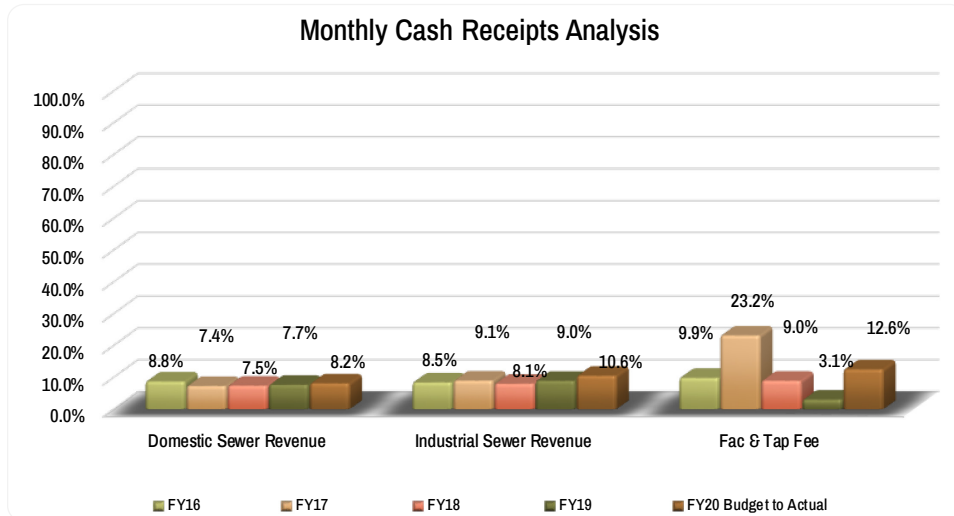
	Original Cost	Income
Cash Equivalents <91 Days	\$ 55,199,996	\$ 78,374
Securities/CD's 91 to 365 Days	6,432,053	9,132
Securities/CD's > 1 Year	5,498,578	7,807
	<u>\$ 67,130,626</u>	<u>\$ 95,313</u>

Month End Portfolio Information

Weighted Average Maturity	99
Yield to Maturity	2.14%
6 Month T-Bill Secondary Market	1.84%
NCCMT Government Portfolio	1.98%

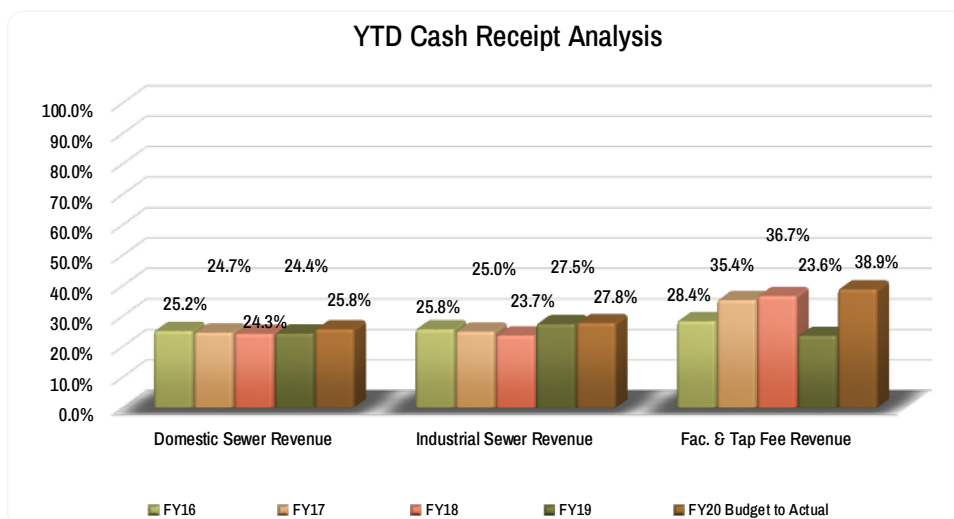


Metropolitan Sewerage District
ANALYSIS OF CASH RECEIPTS
 As of September 30, 2019



Monthly Cash Receipts Analysis:

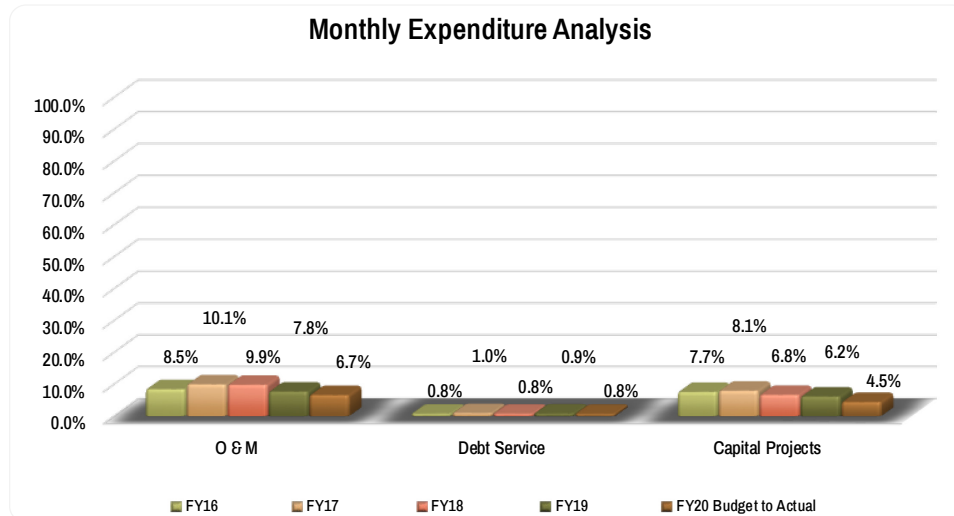
- Monthly domestic sewer revenue is considered reasonable based on timing of cash receipts in their respective fiscal periods.
- Monthly industrial sewer revenue is reasonable based on historical trends.
- Due to the unpredictable nature of facility and tap fee revenue, staff considers facility and tap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



YTD Actual Revenue Analysis:

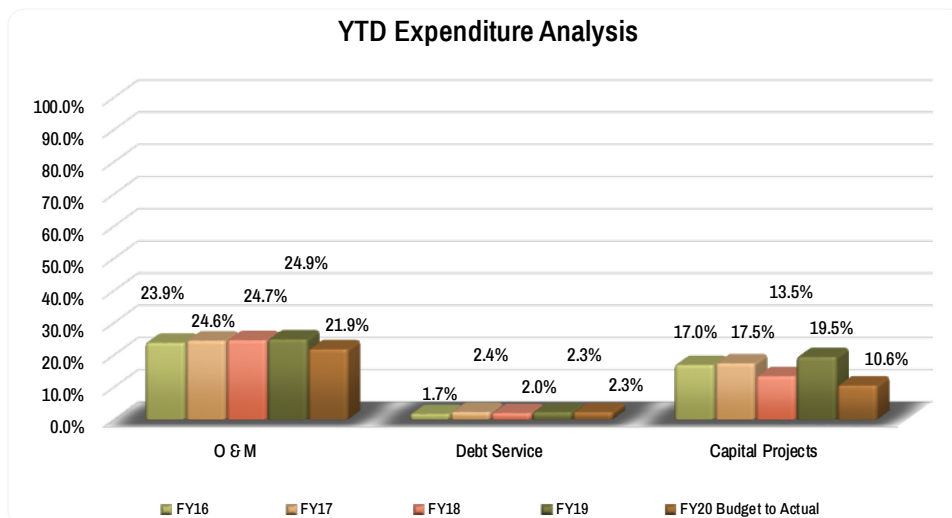
- YTD domestic sewer revenue is considered reasonable based on historical trends.
- YTD industrial sewer revenue is reasonable based on historical trends.
- Due to the unpredictable nature of facility and tap fee revenue, staff considers facility and tap fee revenue reasonable.

Metropolitan Sewerage District
ANALYSIS OF EXPENDITURES
As of September 30, 2019



Monthly Expenditure Analysis:

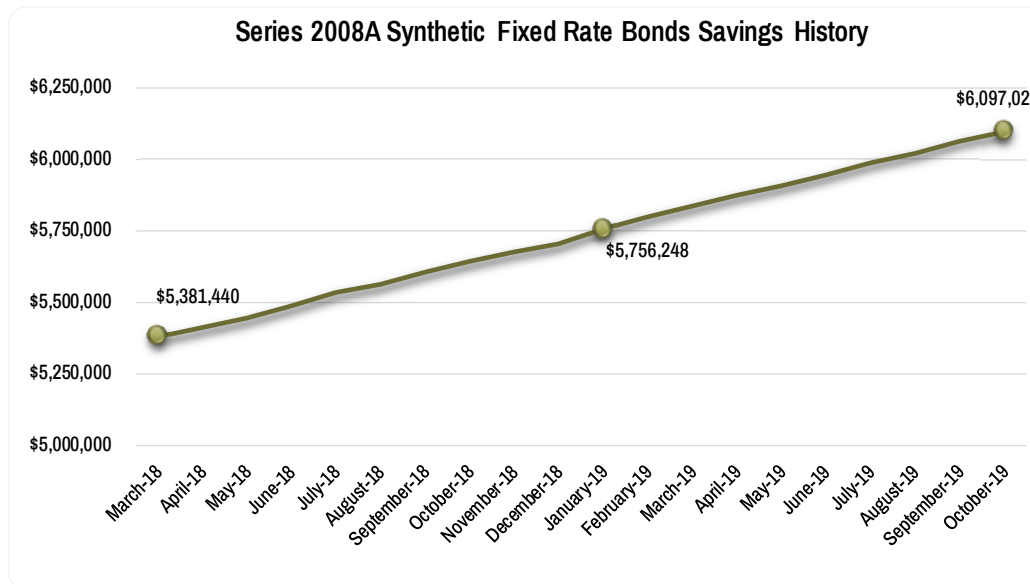
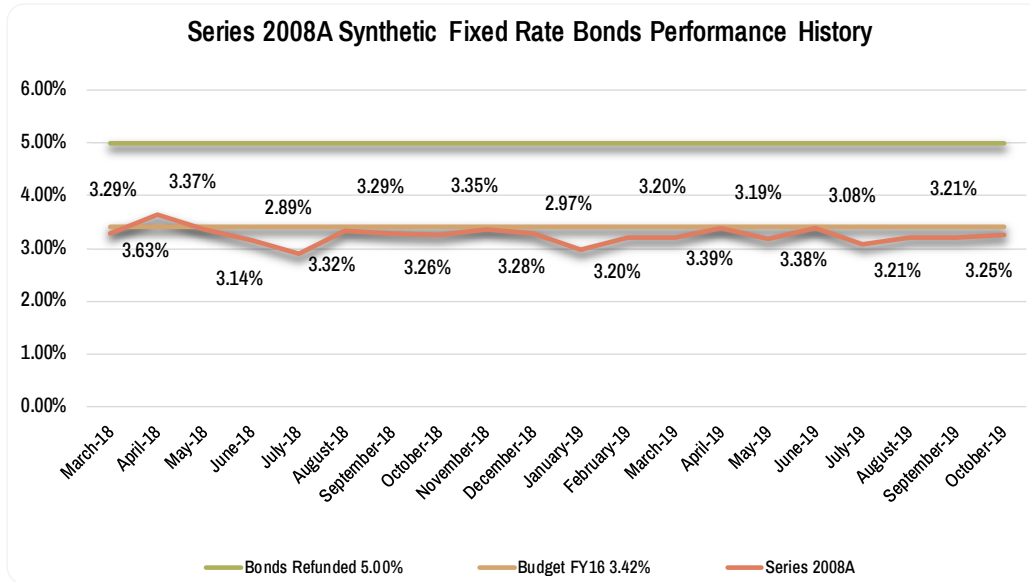
- ✦ Monthly O&M expenditures are considered reasonable based on historical trends and timing of expenditures in the current year.
- ✦ Due to the nature of the variable rate bond market, monthly expenditures can vary year to year. Based on current variable interest rates, monthly debt service expenditures 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 O&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 October 31, 2019



Series 2008A:

- Savings to date on the Series 2008A Synthetic Fixed Rate Bonds is \$6,097,027 as compared to 4/1/2008 fixed rate of 4.85%.
- Assuming 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 \$3,499,364 to terminate the existing Bank of America Swap Agreement.

STATUS REPORTS

PROJECT NAME	LOCATION	ZIP CODE	ESTIMATED FOOTAGE	ESTIMATED PROJECT DATES	WO#	CREW	COMPLETION DATE	ACTUAL FOOTAGE	NOTES
Saint Johns Street Force Main Replacement	Arden	28704	1040	6/10/19-7/5/19	238516	631	7/1/2019	1048	Complete
Brown Avenue at Elk Mtn Rd	Woodfin	28804	484	7/6/19 - 7/17/19	252976	631	7/17/2019	500	Complete
324 Brooklyn Road Sewer Rehabilitation	Asheville	28803	100	7/18/19-7/19/19	258462	631	7/19/2019	85	Complete
Tried Street Sewer Rehab	Asheville	28803	100	7/20/19 - 7/28/19	263127	631	7/25/2019	86	Complete
415 Chunns Cove Road at Willow Ridge Sewer Rehabilitation	Asheville	28805	100	8/1/19 - 8/8/19	258463	631	8/2/2019	100	Complete
106 Seventh St Sewer Rehabilitation	Black Mountain	28711	200	8/9/19 - 8/20/19	225198	631	8/13/2019	200	Complete
122 Wendover Road Sewer Rehabilitation	Asheville	28806	113	8/14/19 - 8/16/19	258561	631	8/16/2019	112	Complete
2 Spartan Avenue Sewer Replacement	Asheville	28806	110	8/14/2019	264550	614	8/14/2019	110	Complete
Riverside Drive @ Vine Street	Woodfin	28804	220	8/19/19 - 8/21/19	264742	631	8/21/2019	220	Complete
Barnard Avenue at Lookout Sewer Rehabilitation	Asheville	28804	200	8/22/19 - 8/27/19	236089	631	8/27/2019	205	Complete
Waynensville Avenue at Brownwood	Asheville	28806	798	6/24/19 - 8/31/19	247283	674	8/30/2019	698	Complete
Lower Melody Lane Sewer Rehabilitation	Asheville	28803	694	8/28/19 - 10/1/19	256882	631	9/27/2019	667	Complete
149 State Street Sewer Rehabilitation	Asheville	28806	265	9/1/19 - 9/20/19	237791	674	9/24/2019	233	Complete
15 New Jersey Sewer Rehabilitation	Asheville	28806	250	9/21/19 - 10/7/19	238782	674	10/2/2019	228	Complete
Old Haw Creek Road at Dillingham Road Phase I	Asheville	28805	419	10/2/19 - 11/1/19	220080	631	10/28/2019	420	Complete
East Grovestone Quarry Sewer Rehabilitation	Black Mountain	28711	780	10/21/19-12/15/19	213459	674			Construction 25% complete
28 Mayflower Drive Sewer Replacement	Asheville	28804	272	11/2/19 - 11/15/19	265101	631			Construction just underway
12 Mayflower Drive Sewer Rehabilitation	Asheville	28804	279	11/16/19 - 12/1/19	247347	631			Construction just underway
Montgomery Street Construction Rehabilitation	Asheville	28806	596	11/4/19 - 11/8/19	266979/266673	674			Ready for construction
Erwin Hills Force Main Relocation	Leicester	28806	60	11/11/19 - 11/20/19	266981	674			Ready for construction
Sarvena Place	Asheville	28804	160	12/2/19 - 12/15/19	262466	631			Ready for construction
217 Mountain View Road Sewer Rehabilitation Ph. 2	Asheville	28805	483	FY 19-20	260470	TBA			Ready for construction
Starnes Avenue at Broadway Street	Asheville	28801	400	FY 19-20	208325	TBA			Ready for construction
154 Overbrook Road	Montreat	28757	470	FY 19-20	264010	TBA			Ready for construction
72 Dillingham Road	Asheville	28805	234	FY 19-20	39327	TBA			In ROW
332 Wilson Avenue	Swannanoa	28778	235	FY 19-20	210202	TBA			In ROW
111 Compton Drive	Asheville	28806	360	FY 19-20	228741	TBA			In ROW
Lakewood Drive at Waverly Road Sewer Rehabilitation	Asheville	28803	1350	FY 19-20	258770	TBA			In Design
Coleman Avenue at Conestee	Asheville	28801	1490	FY 19-20	233875	TBA			In Design
Holiday Dr. at Sweeten Creek Rd. Sewer Rehabilitation	Arden	28704	730	FY 19-20	258461	TBA			Preliminary Engineering
48 Clarendon Road Sewer Rehabilitation	Asheville	28806	500	FY 19-20	258562	TBA			Preliminary Engineering
Antique Lane to Colters Path Sewer Rehabilitation	Asheville	28806	1600	FY 19-20	258821	TBA			Preliminary Engineering
Daniel Road to Starnes Cove Place Sewer Rehabilitation	Asheville	28806	879	FY 19-20	258822	TBA			Preliminary Engineering
Moss Lane at Cedar Lane Sewer Rehabilitation	Arden	28704	911	FY 19-20	258823	TBA			Preliminary Engineering
Sweeten Creek Rd At Carrington Pl Sewer Rehabilitation	Arden	28704	1232	FY 19-20	258825	TBA			Preliminary Engineering



CONSTRUCTION TOTALS BY DATE COMPLETED - Monthly

From 7/1/2019 to 9/30/2019

	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 2019	25	12	163	718	27	24	12,239	0	24	606	10	1,121	1751
August 2019	32	6	138	488	27	28	2,615	0	110	1543	12	0	1653
September 2019	13	10	286	431	18	21	11,200	0	0	800	10	100	900
Grand Totals	70	28	587	1,637	72	73	26,054	0	134	2949	32	1,221	4304

* Used to calculate Total Rehab Footage



PIPELINE MAINTENANCE TOTALS BY DATE COMPLETED - Monthly

July 01, 2019 to September 30, 2019

	Main Line Wash Footage	Service Line Wash Footage	Rod Line Footage	Cleaned Footage	CCTV Footage	Smoke Footage	SL-RAT Footage
2019							
July	89,420	739	8,930	98,350	21,980	325	17,474
August	100,227	1,060	1,520	101,747	20,013	2,700	6,860
September	62,575	696	3,060	65,635	13,188	14,821	44,100
Grand Total:	252,222	2,495	13,510	265,732	55,181	17,846	68,434
Avg Per Month:	84,074	832	4,503	88,577	18,394	5,949	22,811



CUSTOMER SERVICE REQUESTS

Monthly - All Crews

CREW	MONTH	JOBS	AVERAGE RESPONSE TIME	AVERAGE TIME SPENT
DAY 1ST RESPONDER				
	July, 2019	108	25	35
	August, 2019	85	23	41
	September, 2019	59	24	38
		252	24	38
NIGHT 1ST RESPONDER				
	July, 2019	13	24	15
	August, 2019	18	25	20
	September, 2019	7	30	36
		38	25	21
ON-CALL CREW *				
	July, 2019	41	41	37
	August, 2019	29	34	30
	September, 2019	24	39	59
		94	38	40
Grand Totals:		384	28	37

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

Right of Way Section 1st Quarter Summary Open Projects

<i>Project</i>	<i>Total ROW Budget</i>	<i>Total Expends to Date</i>	<i>Comment</i>
332 Wilson Avenue Sanitary Sewer Rehabilitation	\$15,587		Awaiting legal documents.
Bent Tree Road GSR	\$45,046		Awaiting legal documents.
Chestnut Lodge Road GSR	\$82,847		Awaiting legal documents.
Christian Creek Interceptor	\$100,477	\$67,552	Access 92% complete with 67% of Total Budget expended to date. One condemnation filed.
Jarnaul Avenue GSR	\$119,036	\$13,958	Access 8% complete with 12% of Total Budget expended to date.
Lower Melody Lane GSR	\$45,586	\$27,565	Project 100% complete with 60% Total Budget expended and no condemnations.
Springside Rd. @ Overlook Rd. GSR	\$21,276	\$14,737	Access 87% complete with 69% Total Budget expended to date.

CAPITAL IMPROVEMENT PROGRAM

STATUS REPORT SUMMARY

November 13, 2019

PROJECT	LOCATION OF PROJECT	CONTRACTOR	AWARD DATE	NOTICE TO PROCEED	ESTIMATED COMPLETION DATE	*CONTRACT AMOUNT	*COMPLETION STATUS (WORK)	COMMENTS
BEAUCATCHER ROAD @ KENILWORTH ROAD PHASE 1	Asheville 28805	Terry Brothers Construction Company	1/16/2019	6/24/2019	12/1/2019	\$171,908.00	98%	Mainline work is complete, ready for final paving.
BEAUCATCHER ROAD @ KENILWORTH ROAD PHASE 2	Asheville 28805	Terry Brothers Construction Company	7/17/2019	10/14/2019	12/1/2019	\$334,779.00	95%	Mainline work is complete, crew working on services.
KENILWORTH ROAD @ SPRINGDALE ROAD	Asheville 28805	Terry Brothers Construction Company	1/16/2019	6/24/2019	12/1/2019	\$252,324.00	98%	Waiting on final paving.
MULL BUILDING HVAC PHASE 1	Woodfin	Pyatt Heating & Air Conditioning	8/21/2019	11/1/2019	1/31/2020	\$186,338.00	0%	A preconstruction meeting was held on September 25th. Submittals are being reviewed.
MULL BUILDING IT BACKUP GENERATOR	Woodfin	MB Haynes	9/10/2019	10/7/2019	2/4/2020	\$120,700.00	40%	Pad poured and conduit laid from pad to building. Generator has been ordered.
OLD HAW CREEK ROAD @ GREENBRIAR ROAD	Asheville 28805	Terry Brothers Construction Company	1/16/2019	4/15/2019	11/30/2019	\$821,552.00	99%	Paving is complete, ready for final inspection.
SOUTH FRENCH BROAD INTERCEPTOR LINING (FY 19-20)	Biltmore	Am-Liner East, Inc.	10/16/2019	1/1/2020	4/1/2020	\$866,707.00	0%	A preconstruction meeting is scheduled for November 21, 2019.
TOWN BRANCH INTERCEPTOR LINING	Asheville 28801	Am-Liner East, Inc.	10/16/2019	1/1/2020	4/1/2020	\$194,629.00	0%	A preconstruction meeting is scheduled for November 21, 2019.
WEAVERVILLE FORCE MAIN @ PLANT	Woodfin	Terry Brothers Construction Company	7/17/2019	11/4/2019	7/1/2020	\$2,188,114.10	0%	Submittals are being reviewed. Contractor plans to be on-site on or near November 25, 2019.
WRF- PLANT HIGH RATE PRIMARY TREATMENT	Woodfin	Shook Construction Company	10/17/2018	1/7/2019	12/31/2020	\$15,071,000.00	27%	Poured S1 through S8 slabs; working on wall pours 1 & 2; plan to pour wall 1 and effluent channel this week.

***Updated to reflect approved Change Orders and Time Extensions**

Planning & Development Project Status Report

Active Construction Projects Sorted by Work Location and Project Number

November 8, 2019

Project Name	Project Number	Work Location	Zip Code	Units	LF	Pre-Construction Conference Date	Comments
First Baptist Relocation	2015032	Asheville	28801	Comm.	333	7/21/2015	Final Inspection complete, awaiting close-out docs
8 Sulphur Springs Road	2015116	Asheville	28806	6	80	11/22/2016	Final Inspection complete, awaiting close-out docs
Towne Place Suites	2016012	Asheville	28801	83	342	9/11/2018	Installing
88 Southside Ave Phase 2	2016015	Asheville	28801	18	400	2/21/2017	Phase 2 not yet started
Hounds Ear (Mears Ave Cottages)	2016123	Asheville	28806	18	402	8/18/2017	Pre-con held, construction not yet started
Hawthorne at Mills Gap	2016222	Asheville	28803	272	442	10/3/2017	Waiting on final inspection
Ashecroft	2016229	Asheville	28806	40	2,450	2/20/2018	Phase 1 - Final complete, awaiting close-out docs / Phase 2 - on hold
Hotel Milan	2017003	Asheville	28805	112	24	9/20/2019	Pre-con held, construction not yet started
Gerber Road Storage	2017049	Asheville	28803	Comm.	156	2/9/2018	Final Inspection complete, awaiting close-out docs
RADTIP	2017052	Asheville	28801	0	919	2/13/2018	Installing
White Oak Grove	2017053	Asheville	28801	114	1,185	6/28/2019	Installing
Rock Hill Road	2017096	Asheville	28803	15	990	7/24/2018	Waiting on final inspection
McCormick Place	2017150	Asheville	28801	17	210	8/3/2018	Waiting on final inspection
Wanoca Cottages	2017214	Asheville	29903	15	378	3/26/2019	Waiting on final inspection
Hawthorne Apartments @ Haywood	2017225	Asheville	28806	240	1,604	10/19/2018	Waiting on Final Inspection
17 N. Market Street	2017238	Asheville	28801	16	256	5/10/2019	Pre-con held, construction not yet started
Biltmore Terrace Ph. 3	2018000	Asheville	28803	15	294	7/16/2019	Waiting on final inspection
US 74 Commercial Development	2018010	Asheville	28803	4	265	5/25/2018	Pre-con held, construction not yet started
Alice Place Subdivision	2018066	Asheville	28803	19	480	6/19/2018	Final Inspection complete, awaiting close-out docs
Oakview Park Road	2018072	Asheville	28803	3	230	1/29/2019	Pre-con held, construction not yet started
Old Haywood Subdivision Phase 1	2018073	Asheville	28806	79	1,770	3/19/2019	Pre-con held, construction not yet started
Fern Street	2018081	Asheville	28803	8	60	2/15/2019	Testing
Lee Walker Heights	2018126	Asheville	28801	116	1,755	10/1/2019	Installing
Le An Hurst Road	2018127	Asheville	28803	5	245	3/22/2019	Final Inspection complete, awaiting close-out docs
Tru by Hilton	2018131	Asheville	28805	1	248	1/25/2019	Waiting on final inspection
Hamrick Farms	2018133	Asheville	28715	69	3,483	8/30/2019	Pre-con held, construction not yet started
Bear Creek Hotel Off-site	2018141	Asheville	28806	Comm.	860	11/5/2019	Pre-con held, construction not yet started
Habitat - Old Haywood Road	2018258	Asheville	28806	38	1,355	8/20/2019	Waiting on Final Inspection
Joiner Avenue	2018264	Asheville	28801	4	215	6/4/2019	Waiting on final inspection
UNC-A Edgewood Road Parking Lot	2019078	Asheville	28801	Comm.	373	7/19/2019	Testing
100 Airport Road Sewer Relocation	2019125	Asheville	28704	Comm.	548	8/23/2019	Waiting on final inspection
West Keesler Avenue	2007176	Black Mountain	28711	6	410	11/15/2016	Final Inspection complete, awaiting close-out docs
808 Montreat Road	2015126	Black Mountain	28711	4	371	4/18/2017	Final Inspection complete, awaiting close-out docs
Avadim	2017001	Black Mountain	28711	Comm.	2,286	1/11/2019	Installing
Sweet Birch Lane	2017111	Black Mountain	28711	65	780	9/28/2018	Final Inspection complete, awaiting close-out docs
Chapman's Cove	2017227	Black Mountain	28711	10	430	9/21/2018	Final Inspection complete, awaiting close-out docs
White Oak Circle	2018197	Black Mountain	28711	4	330	10/30/2018	Installing
402 Blue Ridge Road	2018206	Black Mountain	28711	6	372	2/5/2019	Pre-con held, construction not yet started
Givens Highland Farms-Cottage Development	2018272	Black Mountain	28711	16	1,355	9/13/2019	Installing
Padgettown Road - Phase 1	2019003	Black Mountain	28711	6	240	7/19/2019	Waiting on final
Padgettown Road - Phase 2	2019085	Black Mountain	28711	43	1,308	7/19/2019	Pre-con held, construction not yet started
Hyde Park Phase 2	2013058	Buncombe Co.	28704	14	500	12/3/2013	Waiting on final inspection
Creekside Cottages	2014095	Buncombe Co.	28704	7	504	3/12/2015	Waiting on final inspection
Avondale Subdivision	2015052	Buncombe Co.	28803	4	215	4/7/2017	Final Inspection complete, awaiting close-out docs
Waightstill Mountain Phase 2B	2015155	Buncombe Co.	28704	16	1,784	4/23/2019	Installing
Bee Tree Village	2015158	Buncombe Co.	28778	26	1,118	3/17/2017	Waiting on final inspection
NCDOT I-5504 NC 191/I-26 Interchange	2016132	Buncombe Co.	28806	0	355	10/23/2017	In Construction
Bradley Branch Phase 4A	2016189	Buncombe Co.	28704	27	2,420	5/10/2019	Installing
Villas of Avery Creek	2017068	Buncombe Co.	28704	270	3,170	9/18/2018	Waiting on final inspection
ABCCM	2017083	Buncombe Co.	28806	60	4,069	12/4/2018	Off-site portion has been installed, on-site testing
240 Old Farm School Road	2017112	Buncombe Co.	28805	4	340	2/9/2018	Final Inspection complete, awaiting close-out docs
Glenn Bridge Meadows	2017151	Buncombe Co.	28704	30	1,692	7/19/2019	Testing
Sweetgrass Apartments	2018015	Buncombe Co.	28704	270	1,090	4/12/2019	Installing
The Ramble Block I	2018050	Buncombe Co.	28803	39	7,316	12/4/2018	Testing
Upper Grassy Branch Road	2018087	Buncombe Co.	28805	6	250	8/31/2018	Waiting on final inspection
Starnes Cove Subdivision	2018106	Buncombe Co.	28806	14	315	9/6/2019	Pre-con held, construction not yet started
412 Ridge Street	2018111	Buncombe Co.	28715	4	275	5/7/2019	Waiting on final inspection
Bee Tree Road	2018115	Buncombe Co.	28778	6	240	12/18/2018	Final Inspection complete, awaiting close-out docs
New Riparian	2018156	Buncombe Co.	28778	5	275	9/28/2018	Final Inspection complete, awaiting close-out docs
Cedar Lane	2018164	Buncombe Co.	28704	9	145	3/22/2019	Pre-con held, construction not yet started
Fountain Park Subdivision	2018167	Buncombe Co.	28806	240	8,023	7/12/2019	Installing
Blake Ct.	2018174	Buncombe Co.	28704	5	307	7/30/2019	Waiting on final inspection
The Preserve at Avery's Creek Phase 2	2018188	Buncombe Co.	28704	141	4,000	6/16/2017	Final Inspection complete, awaiting close-out docs
East Haven Apartments	2018198	Buncombe Co.	28778	95	34	7/30/2019	Ready for testing
Reserve at Gashes Creek	2018208	Buncombe Co.	28803	190	1,940	8/2/2019	Installing
Biltmore Lake Block I-4	2018226	Buncombe Co.	28715	27	1,770	3/12/2019	Final Inspection complete, awaiting close-out docs
Roberts Relocation	2018250	Buncombe Co.	28803	1	340	7/19/2019	Final Inspection complete, awaiting close-out docs
44 Central Ave	2017107	Weaverville	28787	7	275	10/27/2017	Final Inspection complete, awaiting close-out docs
Ambler's Chase	2017249	Weaverville	28787	21	1,235	11/29/2018	Testing
Northridge Commons Townhomes	2018082	Weaverville	28787	53	1,380	4/9/2019	Pre-con held, construction not yet started
Mable Trace Ph. 4	2018214	Weaverville	28787	35	1,265	5/24/2019	Waiting on final inspection
Crest Mountain Phase 3B	2013041	Woodfin	28806	69	1,329	10/15/2013	Punchlist pending, awaiting closeout documents (roadwork remaining)
Reese & Jan Lasher (High Hopes)	2015152	Woodfin	28806	14	320	4/26/2016	Final Inspection complete, awaiting close-out docs
Olivette Development-Phase 1 Gravity	2016065	Woodfin	28804	356	1,155	3/29/2018	Final Inspection complete, awaiting close-out docs
Olivette Pump Station/Force Main	2016213	Woodfin	28804	356	1,740	2/27/2018	Working on punchlist items
Apple Lane	2017130	Woodfin	28804	4	60	8/31/2018	Installing
88 North Merrimon Avenue	2017196	Woodfin	28804	Comm.	455	5/11/2018	Waiting on final inspection
Olivette Gravity Phase 2	2018116	Woodfin	28804	94	12,406	11/27/2018	Installing
Skyfin-Terraces at Reynolds Mtn -Phase 3&4	2018187	Woodfin	28804	22	845	8/8/2017	Waiting on final inspection and phasing
Brown Avenue	2018267	Woodfin	28804	3	62	7/2/2019	Waiting for testing
French Broad River Academy for Girls	2019151	Woodfin	28804	Comm.	20	9/13/2019	Final Inspection complete, awaiting close-out docs
		TOTAL		4,031	95,268		