



City of Bartlett

David Parsons, Mayor

BOARD OF MAYOR AND ALDERMEN MEETING AGENDA

TUESDAY, JULY 23, 2024 - BARTLETT CITY HALL - 6:00 PM

INVOCATION

Opening Prayer by Chaplain Johnny Byrd, Legacy Church

FUTURE MEETINGS

Industrial Development Board, August 1 at 7 p.m.

Family Assistance Commission, August 5 at 6 p.m.

Planning Commission, August 5 at 7 p.m.

Beer Board, August 6 at 6 p.m.

Bartlett Station Commission, August 7 at 7:30 a.m.

Parks and Recreation Advisory Board, August 8 at 6 p.m.

City Beautiful Commission, August 8 at 6:30 p.m.

RECOGNITIONS

Official Business of the Day

MINUTES ACCEPTANCE

Minutes of the July 9, 2024 Board of Mayor and Aldermen Regular Meeting

PUBLIC HEARING

Individuals will have a maximum of three minutes to speak either for or against the item, with a total of 20 minutes for each side.

- I. Resolution 19-24, a resolution approving a Special Use Permit to allow a Planned Residential Development to be located south of New Brownsville Road and west of Springtree Drive, within the "RS-15" Single Family Residential Zoning District.

UNFINISHED BUSINESS

- I Resolution 19-24, a resolution approving a Special Use Permit to allow a Planned Residential Development to be located south of New Brownsville Road and west of Springtree Drive, within the “RS-15” Single Family Residential Zoning District. (Kim Taylor, Director of Planning and Economic Development)**

CONSENT AGENDA

- I Special event permit for Memphis Runner's Track Club Road Race Series-5 Mile Run. (Trey Arthur, Director of Code Enforcement)**

The event will be held on Sunday, August 11 from 5:30 a.m. to 9:30 a.m. at W.J. Freeman Park.

- 2 Purchase of Refuse Truck. (Matt Crenshaw, Director of Public Works)**

Request authorization to purchase one 2025 Kenworth L770 cab-over garbage truck from Sansom at a total cost of \$425,909.68. This vehicle will be purchased utilizing Sansom as a single source provider. Funds are available in Account 122.48122.935.

- 3 Commercial Subdivision Contract for Shamali Meat Shop and Grocery. (John Horne, Director of Engineering)**

Plans are attached for a proposed Meat Shop and Grocery at 7771 US Highway 70. The developer, Marwhan and Haneen Shamali, will pay \$18,536.19 in City fees. The bond is set at \$92,997.75.

- 4 Debt Report 2024 Apple Lease. (Dick Phebus, Director of Finance)**

- 5 Approval of Revised Investment Policy. (Dick Phebus, Director of Finance)**

This revision updates our current investment policy in preparation for finalization of banking services.

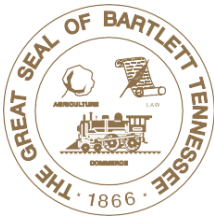
NEW BUSINESS

- I Resolution 27-24, a resolution to revise and update the Stormwater Management Plan and Program for the City of Bartlett, Tennessee. (John Horne, Director of Engineering)**

OPEN DISCUSSION

The public shall be provided an opportunity to address the Board or Commission during an Open Discussion period at the end of each regular and special meeting of the governing body. Prior to the start of the meeting, individuals will be required to complete and present to the Clerk the Open Discussion Citizen form provided at each meeting. The Open Discussion period for regular and special meetings of the Board or Commission shall be limited to twenty (20) minutes. Individuals shall be allowed to speak for up to three (3) minutes each. Open Discussion periods will not be held for any meeting where there are no actionable items on the agenda or meetings where the governing body is conducting a disciplinary hearing for a member of the governing body or a person whose profession or activities fall within the jurisdiction of the governing body.

ADJOURNMENT



City of Bartlett

David Parsons, Mayor

BOARD OF MAYOR AND ALDERMEN MEETING MINUTES

TUESDAY, JULY 9, 2024 - BARTLETT CITY HALL - 6:00 PM

ATTENDANCE

Mayor David Parsons: Present, Alderman Brad King: Present, Alderman Robert Griffin: Present, Alderman David Reaves: Present, Alderman Monique L. Williams: Present, Vice Mayor Jack Young: Present, Alderman Kevin Quinn: Present.

INVOCATION

Opening Prayer by Alderman David Reaves

FUTURE MEETINGS

Parks and Recreation Advisory Board, July 11 at 6 p.m.

City Beautiful Commission, July 11 at 6:30 p.m.

Industrial Development Board, July 11 at 7 p.m. - CANCELLED

Historic Preservation Commission, July 15 at 6:30 p.m. - CANCELLED

Design Review Commission, July 16 at 6:30 p.m.

Board of Zoning Appeals, July 18 at 6:30 p.m.

RECOGNITIONS

Official Business of the Day

MINUTES ACCEPTANCE

Minutes of the June 25, 2024 Board of Mayor and Aldermen Regular Meeting

RESULT:	ACCEPTED [4 TO 0]
MOVER:	Robert Griffin, Alderman
SECONDER:	Kevin Quinn, Alderman
AYES:	Brad King, Robert Griffin, Monique L. Williams, Kevin Quinn
ABSTAIN:	David Reaves, Jack Young

PUBLIC HEARING

Individuals will have a maximum of three minutes to speak either for or against the item, with a total of 20 minutes for each side.

I. Ordinance 24-08, an ordinance establishing the Bartlett Library Advisory Board.

No one spoke in favor or opposition.

Adjourned at 6:04 p.m.

Minutes Acceptance: Minutes of Jul 9, 2024 6:00 PM (MINUTES ACCEPTANCE)

UNFINISHED BUSINESS

- I **Third Reading of Ordinance 24-08, an ordinance establishing the Bartlett Library Advisory Board. (Ed McKenney, City Attorney)**

RESULT:	APPROVED [UNANIMOUS]
MOVER:	David Reaves, Alderman
SECONDER:	Robert Griffin, Alderman
AYES:	Brad King, Robert Griffin, David Reaves, Monique L. Williams, Jack Young, Kevin Quinn

CONSENT AGENDA

RESULT:	APPROVED [UNANIMOUS]
MOVER:	David Reaves, Alderman
SECONDER:	Kevin Quinn, Alderman
AYES:	Brad King, Robert Griffin, David Reaves, Monique L. Williams, Jack Young, Kevin Quinn

- I **Authorization to auction surplus property. (Dick Phebus, Director of Finance)**
Three items have been identified as having a potential auction-value of \$500 or more and will be auctioned on GovDeals.com.
- 2 **Tyler Technologies cloud-based solution utilization agreement. (Kevin Franz, IT Director)**
Request to enter a three year agreement with our current provider, Tyler Technologies to utilize their cloud-based solution for our Enterprise ERP software. Annual fee will be fixed for three years at \$180,481.00 with a one-time implementation fee of \$9,693.45. Funds are available in 123.48123.264.
- 3 **Bids for water treatment plant chemicals for Fiscal Year 2025. (Dick Phebus, Director of Finance)**
The yearly Chemical Supply Bid was advertised in *The Daily News* on June 14, 2024. On June 27, 2024 the City opened yearly bids for these chemicals. The City had five suppliers submit bids. Recommend bids be awarded to Brenntag and Carus.
- 4 **Purchase a Chevrolet Tahoe Police Sport Utility Vehicle. (Jeff Cox, Police Chief)**
Recommend purchasing a 2024 Chevrolet Tahoe Police Sport Utility Vehicle using the State of Tennessee vehicle contract, SWC #209, from Wilson County Motors for \$55,132.20. Funds are available in Account 124.48124.935.
- 5 **Subdivision Contract for Hurd Subdivision. (John Horne, Director of Engineering)**
The developer, Boris and Pamela Hurd, will pay \$2,400.00 in City fees. The bond is set at \$0.00.
- 6 **Planning Commission Report for July 2024. (Kim Taylor, Director of Planning and Economic Development)**

Minutes Acceptance: Minutes of Jul 9, 2024 6:00 PM (MINUTES ACCEPTANCE)

NEW BUSINESS**I Appoint Members to Bartlett Library Advisory Board. (David Parsons, Mayor)**

RESULT:	APPROVED [UNANIMOUS]
MOVER:	Jack Young, Vice Mayor
SECONDER:	David Reaves, Alderman
AYES:	Brad King, Robert Griffin, David Reaves, Monique L. Williams, Jack Young, Kevin Quinn

2 Resolution 23-24, a resolution to amend the Fiscal Year 2025 General Fund Budget to appropriate \$3,000 for qualified law enforcement officers funded by the State of Tennessee Recruitment and Retention Grant Program. (Dick Phebus, Director of Finance)

The Bartlett Police Department has received a grant from the Tennessee Peace Officer Standard and Training Commission from its Recruitment and Retention Grant program in the amount of \$3,000.

RESULT:	APPROVED [UNANIMOUS]
MOVER:	David Reaves, Alderman
SECONDER:	Robert Griffin, Alderman
AYES:	Brad King, Robert Griffin, David Reaves, Monique L. Williams, Jack Young, Kevin Quinn

3 Resolution 24-24, a resolution to write-off bad checks over three years old or deemed uncollectible issued to City of Bartlett. (Dick Phebus, Director of Finance)

Two checks have been returned and determined to be uncollectible.

RESULT:	APPROVED [UNANIMOUS]
MOVER:	David Reaves, Alderman
SECONDER:	Jack Young, Vice Mayor
AYES:	Brad King, Robert Griffin, David Reaves, Monique L. Williams, Jack Young, Kevin Quinn

4 Resolution 25-24, a resolution to amend the Fiscal Year 2024 Bartlett City Schools General Purpose School Fund, Federal Projects Fund, Discretionary Grant Fund and Education Capital Project Fund. (Dick Phebus, Director of Finance)

Bartlett City Board of Education has approved a budget amendment to the Education Capital Projects Fund for roof repairs at Bon Lin Elementary and for ADA-compliance at Ellendale Elementary.

RESULT:	APPROVED [UNANIMOUS]
MOVER:	Jack Young, Vice Mayor
SECONDER:	Kevin Quinn, Alderman
AYES:	Brad King, Robert Griffin, David Reaves, Monique L. Williams, Jack Young, Kevin Quinn

Minutes Acceptance: Minutes of Jul 9, 2024 6:00 PM (MINUTES ACCEPTANCE)

5 Resolution 26-24, a resolution to amend the FY2025 Grants Fund budget to recognize AKC Reunite Adopt a K-9 Cop Grant to the Bartlett Police Department for Acquisition of K-9 Unit. (Dick Phebus, Director of Finance)

This is a matching grant with \$7500 from AKC Reunite Adopt a K-9 Cop Organization and \$2500 allocated from the Bartlett Police Department budget to acquire a new K-9, making the estimated total cost of the service dog \$10,000.

RESULT:	APPROVED [UNANIMOUS]
MOVER:	Jack Young, Vice Mayor
SECONDER:	Robert Griffin, Alderman
AYES:	Brad King, Robert Griffin, David Reaves, Monique L. Williams, Jack Young, Kevin Quinn

OPEN DISCUSSION

Alderman Kevin Quinn expressed his thanks to all the city employees who made the 2024 Fireworks Extravaganza such a huge success.

Alderman David Reaves spoke about the huge turnout for the Bartlett Live concert on Saturday, July 6. He also recognized the improvements to the various buildings on Stage Road between Elmore Park Road and Altruria Road. He also thanked Codes Enforcement for the improvements in the area of Ferguson Road and Shelby Street.

YMCA Chief Operating Officer, Brian McLaughlin, provided an update on operations since taking over the management of the Bartlett Recreation Center. They have added 500 new members over last year. Youth Summer Camp has enrolled 295 children with a wait list. The full assessment of the property has been completed. Phase I renovations will begin in August with a completion target date in January 2025. The total investment of Phase I will be approximately \$1,000,000.00.

Debbie Gelineau, Director of Community Relations, thanked everyone for coming out to the Fireworks Extravaganza on July 3 at Appling Lake. It was the largest crowd that has ever attended. She also reminded everyone about the upcoming Food Truck Friday on July 12.

Todd Halford, Chief Communications Officer, shared information about the upcoming Bartlett Live Music Series on Saturday, July 20 at W.J. Freeman Park. Featured artists are Jareef Greene and Chinese Connection Dub Embassy. He also reported that over 500 people attended the Bartlett Live Concert on July 6.

Clarence and Alleon Neal, 2647 Larch Trail Drive, addressed the Board regarding an on-going issue with a neighbor and Codes Enforcement. Mayor Parsons asked to speak with them in more detail on Wednesday.

Donna Davenport, 5995 Hickory Grove, addressed the Board by reading a section of the City of Bartlett's codes regarding trailers in support of Mr. and Mrs. Neal.

ADJOURNMENT

Meeting adjourned at 6:35 PM

Harold Brad King, Register to the Board of
Mayor and Aldermen

David Parson, Mayor

Minutes Acceptance: Minutes of Jul 9, 2024 6:00 PM (MINUTES ACCEPTANCE)



Board of Mayor and Aldermen

6400 Stage Road
Bartlett, TN 38134

SCHEDULED

RESOLUTION (ID # 3617)

Meeting: 07/23/24 06:00 PM
Department: Planning and Economic Development
Category: Special use permit
Prepared By: Penny Medlock
Initiator: Kim Taylor
Sponsors:
DOC ID: 3617

Resolution 19-24, a resolution approving a Special Use Permit to allow a Planned Residential Development to be located south of New Brownsville Road and west of Springtree Drive, within the "RS-15" Single Family Residential Zoning District.

WHEREAS, an application has been made for a Special Use Permit to allow a Planned Residential Development to be located south of New Brownsville Road and west of Springtree Drive within the "RS-15" Single Family Residential Zoning District.

WHEREAS, according to Article 6, Section 3 of the Bartlett Zoning Ordinance, a Special Use Permit is required within the "RS-15" Single Family Residential Zoning District to allow a Planned Residential Development.

WHEREAS, the Planning Commission reviewed the proposed Special Use Permit to allow a Planned Residential Development to be located south of New Brownsville Road and west of Springtree Drive on Monday, June 3, 2024, in accordance with their regulations and approved the favorable recommendation of approval of the Special Use Permit; and

WHEREAS, the Board of Mayor and Aldermen held a Public Hearing on the 23rd day of July, 2024, and approved the Special Use Permit to allow a Planned Unit Residential Development to be located south of New Brownsville Road and west of Springtree Drive, subject to the following conditions:

Engineering Conditions:

General:

1. A Residential Site Plan contract will be required and will be prepared by Engineering and submitted to the developer/engineer for review to cover the fees to be paid to the City of Bartlett.
2. Applicant/ Engineer shall provide a **digital set of drawing** files showing the sanitary sewer lines, drainage lines, lot lines and all improvements in AutoCAD format to dhubbard@cityofbartlett.org and ecampbell@cityofbartlett.org for use in the preparation of the Water Design Plan. This plan will be coordinated with the site design engineer to resolve any conflicts.
3. A SWPPP and a TDEC permit may be required and shall be submitted to TDEC and also to the City of Bartlett Engineering office.
4. All new utilities shall be underground.
5. All mark-ups and corrections shall be addressed on the revised plans.
6. Show location of subdivision concrete monuments to be installed as required by the

subdivision ordinance.

Plan:

7. Lots 1, 4, 5, 6, 7, & 8, shall have no direct driveway access onto New Brownsville Rd.
8. Handicap ramps are required at street corners.
9. All COS shall be maintained by the Homeowners Association. This includes the detention basin and outlet structure.
10. Sidewalk table shall be added. Sidewalk on New Brownsville Road are 8 feet wide.
11. Sewer easement across Lot 4 to be shown.
12. No detention pond shown. If detention is to be accommodated by a previous Phase then the calculations must be shown to confirm that.
13. Applicant's engineer shall submit the stamped and signed detention calculations for the proposed detention basin and show the 'pre' and the 'post' runoff for the 2, 5, 10, 25 & 100-year storms.
14. Existing drainage along New Brownsville will need to be reworked in order to better accommodate proposed pipes and structures.

Planning Conditions:

1. The applicant shall add to the plat the required Bartlett Standard Fence Section Plate 19C along the New Brownsville Road frontage of Lots 1, 4, 5, 6, 7, and 8, if those houses are southward facing.
2. The applicant shall add street names for the future Construction Plan and Final Plan submittals.
3. The applicant shall include a tree survey with a tree table.
4. The applicant shall include a landscape plan for the common open space.
5. The applicant shall identify the location for the Post Office required cluster box to the final plat.
6. The applicant will need to add a note to the plat to deny driveway access to New Brownsville Road for Lots 1, 4, 5, 6, 7, and 8.
7. A note shall be added to the plat stating that the Joyce's Gardens Planned Development requires a homeowner's association to be formed to maintain all common amenities, landscaping, subdivision fence, subdivision sign, and other features.
8. Ownership and maintenance responsibilities of Common Open Space A shall be listed on the Plat.
9. The applicant shall attach the homeowner's association bylaws instrument number and the covenants and restrictions instrument number to the final plat.
10. The applicant shall obtain Design and Review Commission approval for the common open space amenities and subdivision signage.
11. The owner/applicant shall be present at the meeting in order to make decisions relative to any changes that may be suggested by the Planning Commission.
12. The applicant shall be present at the corresponding Board of Mayor and Aldermen meetings

to make decisions relative to any changes that maybe suggested by the Board of Mayor and Aldermen.

- I3. Should the Planned Development be approved by the Board of Mayor and Aldermen, the applicant shall submit construction and final subdivision plans, along with a site plan application to the Design Review Commission for the common open space areas and the amenities to be installed in the common open space areas.
- I4. The Master Plan shall be updated to incorporate this additional section into the Joyce's Gardens Planned Development so that when each Final Plan is recorded, staff will have a Master Key Plan to go with each Final Plan that is submitted.

WHEREAS, the Board of Mayor and Aldermen have determined that this Special Use Permit should be approved;

NOW, THEREFORE, BE IT RESOLVED BY THE BOARD OF MAYOR AND ALDERMEN OF THE CITY OF BARTLETT, TENNESSEE, that the Special Use Permit to allow a Planned Residential Development to be located south of New Brownsville Road and west of Springtree Drive, incorporating the above listed conditions, is approved.

ADOPTED THIS 23rd DAY OF JULY, 2024.

Harold Brad King, Register to the
Board of Mayor and Aldermen

David Parsons, Mayor

Penny Medlock, City Clerk

**Board of Mayor and Aldermen**

6400 Stage Road
Bartlett, TN 38134

SCHEDULED**AGENDA ITEM**

Meeting: 07/23/24 06:00 PM
Department: Code Enforcement
Category: Special event permit
Prepared By: Laura Jenkins
Department Head: Trey Arthur

Special event permit for Memphis Runner's Track Club Road Race Series-5 Mile Run.



APPLICATION FOR SPECIAL EVENT
OFFICE OF
BARTLETT CODE ENFORCEMENT
6382 STAGE ROAD
BARTLETT TN 38134
901-385-6425

WJ Freeman Park, 2629 Bartlett Blvd. 38134
 Address Zip Code
 August 11th + August 25th 2024 5:30 AM - 9:30 AM
 Dates of the Event Hours of the Event
 Memphis Runners Track Club Road Race Series 5 Mile run
 Type of Event (Fund Raiser, Seasonal, Tent Sale, Sidewalk Sale, Public Attraction)
 City of Bartlett
 Property Owner
 Memphis Runners Track Club P.O. Box 17981, Memphis TN 38187
 Special Event Permit Applicant Address of Applicant
 901-291-9423
 Phone Number Fax Number

Check all items that apply:

For information call (901) 385-6425.

☒ State of TN Business License, Shelby County Business License, Bartlett Business License (For Type 2 Events)
☒ Letter of Permission
☒ Insurance
☒ Tents (Fire Retardant letter included)
☒ Special Event Checklist
☒ Map
☐ Sign or Banner

\$60.00	Special Event Fee
\$5.00	Permit Issuing Fee
\$7.00	Software Fee
\$	2% Credit Card Fee
\$	Total Permit Fee

Op. Hlang 5/24/24
 Responsible Person Signature and Printed Name Date

****Notify building department 10 days prior to Special Event to be held unless it is a Public Attraction which requires approval from the Board of Mayor & Aldermen.****

APPROVAL

This application is not a permit and grants no rights or privileges.

Attachment: 2629 BARTLETT BLVD-APPLICATION (3607 : MRTC ROAD RACE)

MRTC Special Event Checklist

Event: Road Race Series 5 Mile Runs
 Location: WJ Freeman Park 2629 Bartlett Blvd
 Dates: August 11th and Aug. 25, 2024
 Type of special event: (Check one.)

- | | |
|---|---|
| <p>☐ <i>Type 1: Noncommercial Events.</i> Fund-raising or non-commercial events held outside an enclosed permanent structure, including parades, advertised demonstrations, or events, including structures used in conjunction with the event.</p> <p>☐ <i>Type 2: Special Seasonal Events.</i> Farmers' market, Christmas tree sales, fruit, flower or vegetable sales, or sale of other seasonal products, when sold other than on the site where grown, constructed or assembled.</p> | <p>☐ <i>Type 3: Commercial Events.</i> Significant commercial events such as tent sales, sidewalk sales, trade shows, merchandise sales, product demonstrations or transient merchants.</p> <p>☒ <i>Type 4: Public Attractions.</i> Significant outdoor public events intended primarily for entertainment or amusement, such as carnivals, concerts, or festivals, including fireworks displays. Requires approval by the Board of Mayor and Aldermen.</p> |
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Exempt events: (If any of these apply, the special event is exempt from the permit requirement.)

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| <p>☐ <i>Public property.</i> Any special event wholly on public streets and right-of-ways or other property of the City, excluding public parks, which special event is allowed specifically or generally by action of the Board of Mayor and Aldermen.</p> <p>☒ <i>Public parks.</i> Any special event held within a public park. (Although exempt from this Section, these types of special events shall be governed by other provisions of the Codified Ordinances regulating conduct in City parks and recreation areas.)</p> <p>☐ <i>City sponsorship.</i> Any special event sponsored or co-sponsored by the City. Such event shall, however, be in compliance with the performance standards in Section 27.F.</p> <p>☒ <i>Special use permit or site plan.</i> Any business already operating under a special use permit or site plan that authorizes the display and sale of outdoor goods or authorizes the operation of any special event as defined herein.</p> <p>☐ <i>Yard sales.</i> Yard sales regulated under Article VI, Section 1 of the Zoning Ordinance.</p> | <p>☐ <i>Auctions/estate sales.</i> Auctions/estate sale for individual property that is not considered a special event and is conducted by duly licensed auctioneers.</p> <p>☐ <i>Business deliveries.</i> Newspaper delivery or bona fide merchants who deliver goods in the regular course of business.</p> <p>☐ <i>Certain solicitations.</i> Solicitors for charitable, non-profit or religious organizations who go from dwelling to dwelling, business to business, street to street, taking or attempting to take orders for goods, wares and merchandise are exempt from these provisions, provided these organizations meet the Internal Revenue Service Criteria to qualify as a charitable, non-profit or religious organization.</p> <p>☐ <i>First Amendment activity.</i> The dispensing of religious pamphlets or other literature which is protected by the United States Constitution under Freedom of Speech, Religion or Press.</p> <p>☐ <i>Political campaigning.</i> Campaigning for public office.</p> |
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Performance standards:

	Sub- mitted ✓ or X	OK	N/A		Comments
1	X			<i>Location.</i> Special events that do not require the use of public right-of-way shall be conducted on private property in a commercial or industrial zoning district, except that non-profit organizations may conduct special events on any property where the owner has granted permission.	map attached
2	X			For all special events that require the use of public right-of-way, the permit granted shall clearly specify the streets to be used for the event and the time that the streets will be closed, if applicable.	police notified
3			X	Type 3 outdoor sales must be conducted by an existing permanent business adjacent to and on the property of the location of the permanent business. The outdoor sales are to be conducted as an adjunct to the existing permanent business.	
4			X	<i>Land-use compatibility.</i> The special event shall be compatible with the purpose and intent of this Section and with adjacent land uses.	
5		X		The special event shall not impair the normal, safe and effective operation of a permanent use on the same site.	
6		X		The special event shall not endanger or be detrimental to the public health, safety or welfare or injurious to property or improvements in the immediate vicinity of the special event, given the nature of the activity, its location on the site and its relationship to parking and access points.	
7		X		<i>Compliance with other regulations.</i> All structures shall meet all applicable provisions of the Building Code.	
8		X		Any temporary structure shall be promptly removed upon the cessation of the event. Within forty-eight (48) hours of cessation of the event, the site shall be returned to its previous condition, including the removal of all litter, signage, attention-attracting devices or other evidence of the special event. If the site is not returned to its previous condition, the City may restore the site at the event coordinator's expense.	

Attachment: 2629 BARTLETT BLVD-APPLICATION (3607 : MRTC ROAD RACE)

	Sub- mitted ✓ or X	OK	N/A		Comments										
9	X			<i>Hours of operation and duration.</i> The duration and hours of operation of a special event shall be consistent with the surrounding land uses. The total duration of a special event shall not exceed the duration set forth in Table VI.27-1; however, the duration of the special event may be modified by conditions attached to the issuance of the special event permit, as set forth in Section 27.F. Table V.27-1: Special Event Maximum Duration <table><tr><th>Type of Special Event</th><th>Duration</th></tr><tr><td>Type 1: Noncommercial</td><td>30 days</td></tr><tr><td>Type 2: Special Seasonal</td><td>90 days</td></tr><tr><td>Type 3: Commercial</td><td>14 days</td></tr><tr><td>Type 4: Public Attractions</td><td>14 days</td></tr></table>	Type of Special Event	Duration	Type 1: Noncommercial	30 days	Type 2: Special Seasonal	90 days	Type 3: Commercial	14 days	Type 4: Public Attractions	14 days	
Type of Special Event	Duration														
Type 1: Noncommercial	30 days														
Type 2: Special Seasonal	90 days														
Type 3: Commercial	14 days														
Type 4: Public Attractions	14 days														
10			X	In addition to the maximum duration as set forth in Table VI.27-1, a shopping center may hold centralized special events, not connected to individual businesses within the shopping center, which do not exceed sixty (60) days in a calendar year. The duration of all special events in a shopping center may be extended on a case by case basis if the special event(s) take place in shopping center parking areas not required for the primary businesses.											
11			X	<i>Frequency.</i> Except as otherwise provided herein, the maximum frequency of a special event on the same property shall be two (2) times per calendar year, excluding a shopping center. A shopping center shall be allowed to hold four (4) centralized events not connected to any individual business located within the center in addition to those events held by the individual businesses located within the shopping center.											

	Sub- mitted ✓ or X	OK	N/A		Comments
12			X	Type 3 outdoor sales at a specific location may be permitted only as follows: a. Outdoor sales may be permitted once in each calendar month if the duration is not more than three (3) days. b. Outdoor sales may be permitted once in each calendar quarter if the duration is more than three (3) days but not more than ten (10) days. c. The minimum time between consecutive outdoor sales periods for the same business on the same property shall be fourteen (14) days from the beginning of one period to the beginning of the next period. Permitted durations are not cumulative in any time period, that is, the time periods in both "a" and "b" may not be added together.	
13	X			<i>Traffic circulation.</i> The special event shall not cause undue traffic congestion or accident potential, given anticipated attendance and the design of adjacent streets, intersections, parking and traffic controls. All sidewalks shall be left open for pedestrian traffic unless special approval is received for blockage. No alleys, driveways, fire lanes or other access points shall be blocked by the special event unless specific approval is granted for the special event.	memo to police
14	X			<i>Street closings.</i> The special event permit recipients shall be responsible for securing, installing and immediate removal upon cessation all barricades and signs when street closings are approved. Large Class III barricades shall be sandbagged to prevent blowing over.	

	Sub- mitted ✓ or X	OK	N/A		Comments
15			•	<i>Fire safety.</i> The fire department shall be consulted for the following requirements and inspection, as necessary. a. Fire lanes a minimum of 20 feet in width and 12 feet in height or as otherwise approved by the Fire Chief must be provided in order to allow Fire Department access within 150 feet of all structures and on at least two sides of all two-story structures within 500 feet of the location of the special event. b. All fire hydrants in the area of the special event must be left with five (5) feet of clearance on all sides and shall be accessible from the fire lanes that are designated with the event. c. No open fires shall be permitted unless advance approval is obtained from the Fire Department. d. Fire extinguishers shall be available as determined by the Fire Chief. e. Temporary electrical wiring for the special event shall be installed in accordance with the requirements of the National Electrical Code. f. Tents shall comply with the Fire Code and applicable building codes. g. Exit signs and proper exiting aisles shall be provided in temporary special event structures.	
16		X		<i>Off-street parking.</i> The event shall not create a parking shortage for any other use. All off-street parking surfaces used for the special event shall be concrete or asphalt.	
17		X		<i>Public conveniences and litter control.</i> Adequate on-site rest room facilities and solid waste containers shall be provided. The applicant shall calculate the demand for such facilities and specify how the need will be addressed.	
18		X		<i>Nuisances.</i> The special event shall not generate excessive noise, dust, smoke, glare, spillover lighting or other forms of environmental or visual pollution.	

	Sub- mitted ✓ or X	OK	N/A		Comments
19		X		<i>Area of parking lot dedicated to outdoor special events.</i> a. No more than ten (10) percent of the parking stalls required for the structure associated with the parking lot in which the special event occurs shall be permitted to be used for a special event. Regardless of how many stalls are occupied by the special event, no special event that occurs in the parking lot for a permanent structure may cause a parking shortage for primary and accessory uses associated with that structure. b. No spikes, nails, anchors or other devices shall be driven into any public street, sidewalk or parking lot surface or into any existing concrete or asphalt. Such devices may be used on private parking lots provided any damage resulting therefrom shall be fixed upon cessation of the event and removal of the devices.	
20	X			<i>City services.</i> If the applicant requests the City to provide services or equipment, including but not limited to traffic control or security personnel, or if the City otherwise determines that services or equipment are required to protect the public health, safety, or general welfare, the applicant shall be required to reimburse the City for the cost of the services. The City may require the applicant to submit a security deposit, in an amount determined by the Chief Administrative Officer and in the form approved by the City Attorney, prior to the event to ensure that the applicant complies with this provision.	memo attached
21	X			<i>Insurance coverage.</i> Special event permit recipients must show proof of liability insurance at time of application. If the special event will take place on public property, said certificate of insurance shall name the City as an additional insured party in an amount determined by the Chief Administrative Officer based on the nature of the special event.	

Conditions

Conditions deemed necessary to ensure compatibility with adjacent land-uses and to minimize potential adverse impacts on nearby uses:

	Required ✓ or X	N/A	*	Comments
22		X	Limitations on signs.	
23		X	Temporary arrangements for parking and traffic circulation.	
24		X	Requirements for screening/buffering and guarantees for site restoration and cleanup following the special event.	
25		X	Modifications or restrictions on the hours of operation, duration of the event, size of the event or other operational characteristics.	
26		X	The posting of security in an amount required by the Permitting Official to help ensure that the operation of the event and the subsequent restoration of the site are conducted according to required special event standards and conditions of approval.	
27		X	The provision of traffic control or security personnel to ensure the public safety and convenience.	
28		X	Execution of a "Special event agreement" in a form acceptable to the City Attorney to ensure the indemnification of the City and that public property will be protected and/or restored to its condition prior to the special event.	

Special event permit application, content and submission requirements

A complete application shall be submitted to the Permitting Official at least **ten (10) days** prior to the requested start date of any special event.

The application shall set forth and contain the following information:

	Sub- mitted ✓ or X	OK	N/A		Comments
29	X			Name and address of the applicant.	
30	X			Names and address of the owner of the premises on which the proposed event is to be held.	memo attached
31		X		Written approval from the property owner agreeing to the proposed event, if the applicant is not the same as the property owner.	
32	X			Description of the site on which the proposed event is to be held.	memo attached
33	X			Date of the proposed event.	memo attached
34	X			A narrative written description of the proposed event, the hours of operation, anticipated attendance, and any buildings/ structures, signs or attention-attracting devices proposed to be used in conjunction with the event, as well as a statement that the standards set forth in this Section have been satisfied. The narrative written description shall also state what public streets, if any, are requested to be used for the special event.	memo attached
35	X			A site plan in the form and the level of detail as required by the Permitting Official, showing the location of all existing or proposed uses, structures, parking areas, outdoor display areas, signs, streets, and property lines.	map attached
36	X			Location and number of proposed temporary public toilets.	memo attached
37			X	Proposed temporary potable water supplies, which shall be subject to approval by the Director of Code Enforcement, pursuant to applicable authority of the City.	
38		X		Any other information deemed necessary by the Permitting Official to ensure compliance with the standards set forth in this Section.	

Attachment: 2629 BARTLETT BLVD-APPLICATION (3607 : MRTC ROAD RACE)

Special event permit - authorization by Permitting Official

Type 1, 2 and 3 special events (as defined in part B) may be issued a special event permit by the Permitting Official on the form provided by the City when all of the following conditions have been satisfied and continue to be met throughout the special event:

	OK ✓ or X	N/A		Comments
39	X		A complete application is made on the form provided by the City and a fee paid in accordance with City ordinances.	
40			The application has been reviewed and approved in writing by the Code Enforcement, Fire, Police, and Public Works Departments for traffic control and other safety concerns.	
41		X	An electrical plan, if required for the special event, is approved by the Director of Code Enforcement.	
42	X		The Permitting Official determines the following: a. The special event will comply with the special event performance standards...;	
43	X		b. The special event will not endanger the public health, safety, or general welfare given the nature of the activity, its location on the site, and its relationship to parking and access points;	
44	X		c. The special event will not impair the usefulness, enjoyment or value of adjacent property due to the generation of excessive noise, smoke, odor, glare, litter, or visual pollution;	
45	X		d. The special event shall comply with all applicable state and federal health, safety, environmental and other applicable requirements.	



CERTIFICATE OF LIABILITY INSURANCE

DATE (7.1.b)
05/23/2024

THIS CERTIFICATE IS ISSUED AS A MATTER OF INFORMATION ONLY AND CONFERS NO RIGHTS UPON THE CERTIFICATE HOLDER. THIS CERTIFICATE DOES NOT AFFIRMATIVELY OR NEGATIVELY AMEND, EXTEND OR ALTER THE COVERAGE AFFORDED BY THE POLICIES BELOW. THIS CERTIFICATE OF INSURANCE DOES NOT CONSTITUTE A CONTRACT BETWEEN THE ISSUING INSURER(S), AUTHORIZED REPRESENTATIVE OR PRODUCER, AND THE CERTIFICATE HOLDER.

IMPORTANT: If the certificate holder is an ADDITIONAL INSURED, the policy(ies) must have ADDITIONAL INSURED provisions or be endorsed. If SUBROGATION IS WAIVED, subject to the terms and conditions of the policy, certain policies may require an endorsement. A statement on this certificate does not confer rights to the certificate holder in lieu of such endorsement(s).

PRODUCER Insurance Management Group 959 East 4th St Marion IN 46952		CONTACT NAME: Tabitha Messersmith PHONE (A/C, No, Ext): (800) 272-8673 E-MAIL ADDRESS: tmessersmith@insmgt.com FAX (A/C, No): (765) 664-0761																					
INSURED Road Runners Club of America/2024 and Its Member Clubs 100 W Jefferson St, Suite 202 Falls Church VA 22046		<table><tr><th colspan="2">INSURER(S) AFFORDING COVERAGE</th><th>NAIC #</th></tr><tr><td>INSURER A:</td><td>Granite State Insurance Company</td><td>23809</td></tr><tr><td>INSURER B:</td><td>National Union Fire Insurance Company of Pittsburgh, PA</td><td>19445</td></tr><tr><td>INSURER C:</td><td></td><td></td></tr><tr><td>INSURER D:</td><td></td><td></td></tr><tr><td>INSURER E:</td><td></td><td></td></tr><tr><td>INSURER F:</td><td></td><td></td></tr></table>	INSURER(S) AFFORDING COVERAGE		NAIC #	INSURER A:	Granite State Insurance Company	23809	INSURER B:	National Union Fire Insurance Company of Pittsburgh, PA	19445	INSURER C:			INSURER D:			INSURER E:			INSURER F:		
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INSURER E:																							
INSURER F:																							

COVERAGES CERTIFICATE NUMBER: 2024 \$2M A.I. Liability REVISION NUMBER:

THIS IS TO CERTIFY THAT THE POLICIES OF INSURANCE LISTED BELOW HAVE BEEN ISSUED TO THE INSURED NAMED ABOVE FOR THE POLICY PERIOD INDICATED. NOTWITHSTANDING ANY REQUIREMENT, TERM OR CONDITION OF ANY CONTRACT OR OTHER DOCUMENT WITH RESPECT TO WHICH THIS CERTIFICATE MAY BE ISSUED OR MAY PERTAIN, THE INSURANCE AFFORDED BY THE POLICIES DESCRIBED HEREIN IS SUBJECT TO ALL THE TERMS, EXCLUSIONS AND CONDITIONS OF SUCH POLICIES. LIMITS SHOWN MAY HAVE BEEN REDUCED BY PAID CLAIMS.

INSR LTR	TYPE OF INSURANCE	ADDL INSD	SUBR WVD	POLICY NUMBER	POLICY EFF (MM/DD/YYYY)	POLICY EXP (MM/DD/YYYY)	LIMITS
A	☒ COMMERCIAL GENERAL LIABILITY			AIL0003450335200	12/31/2023	12/31/2024	EACH OCCURRENCE \$ 2,000,000
	☐ CLAIMS-MADE ☒ OCCUR						DAMAGE TO RENTED PREMISES (Ea occurrence) \$ 500,000
	☒ Legal Liability to						MED EXP (Any one person) \$ 5,000
	☐ Participants \$2,000,000						PERSONAL & ADV INJURY \$ 2,000,000
A	GEN'L AGGREGATE LIMIT APPLIES PER:			AIL0003450335200	12/31/2023	12/31/2024	GENERAL AGGREGATE \$ 5,000,000
	☐ POLICY ☐ PRO-JECT ☐ LOC						PRODUCTS - COMP/OP AGG \$ 2,000,000
	☒ OTHER: Per Event Basis						Abuse and Molestation \$ 500,000
	AUTOMOBILE LIABILITY						COMBINED SINGLE LIMIT (Ea accident) \$ 2,000,000
A	☐ ANY AUTO			AIL0003450335200	12/31/2023	12/31/2024	BODILY INJURY (Per person) \$
	☐ OWNED AUTOS ONLY						BODILY INJURY (Per accident) \$
	☒ HIRED AUTOS ONLY						PROPERTY DAMAGE (Per accident) \$
	☐ SCHEDULED AUTOS NON-OWNED AUTOS ONLY						
	UMBRELLA LIAB						EACH OCCURRENCE \$
	EXCESS LIAB						AGGREGATE \$
	☐ OCCUR ☐ CLAIMS-MADE						
	DED RETENTION \$						
	WORKERS COMPENSATION AND EMPLOYERS' LIABILITY						PER STATUTE OTH-ER
	ANY PROPRIETOR/PARTNER/EXECUTIVE OFFICER/MEMBER EXCLUDED? (Mandatory in NH)						E.L. EACH ACCIDENT \$
	If yes, describe under DESCRIPTION OF OPERATIONS below						E.L. DISEASE - EA EMPLOYEE \$
							E.L. DISEASE - POLICY LIMIT \$
B	Excess Medical & Accident (\$250 Deductible/Claim)			AID0003450335800	12/31/2023	12/31/2024	Excess Medical \$10,000
							AD & Specific Loss \$2,500

DESCRIPTION OF OPERATIONS / LOCATIONS / VEHICLES (ACORD 101, Additional Remarks Schedule, may be attached if more space is required)

CERTIFICATE HOLDER IS NAMED AS AN ADDITIONAL INSURED AS RESPECTS TO THEIR INTEREST IN THE OPERATIONS OF THE NAMED INSURED. DATE OF EVENT(S): 08/11/24 and 08/25/24 Road Race Series 5 milers INSURED RRCA CLUB/EVENT MEMBER: Memphis Runners Track Club ATTN: April Flanigan, PO Box 17981, Memphis TN 38187 Processed by RMV

CERTIFICATE HOLDER 08/11/24 City of Bartlett 6400 Stage Rd Bartlett TN 38134	CANCELLATION SHOULD ANY OF THE ABOVE DESCRIBED POLICIES BE CANCELLED BEFORE THE EXPIRATION DATE THEREOF, NOTICE WILL BE DELIVERED IN ACCORDANCE WITH THE POLICY PROVISIONS. AUTHORIZED REPRESENTATIVE Jerry R. Miller
--	---



David Parsons, *Mayor*
Paul Wright, *Parks Director*

May 16, 2024

City of Bartlett
Code Enforcement
6462 Stage Rd.
Bartlett, TN 38134

The Memphis Runners Track Club has requested to use W. J. Freeman Park on Sunday, August 11, 2024, and Sunday, August 25, 2025, for their annual Road Race Series 5 Mile Run.

Permission is hereby given by Bartlett Parks and Recreation Department pending approval by the Mayor and Board of Aldermen.

Sincerely,

A handwritten signature in blue ink, appearing to read "P. Wright", is written over the printed name "Paul Wright".

Paul Wright
Director, Parks and Recreation
City of Bartlett

Attachment: 2629 BARTLETT BLVD-LETTER OF PERMISSION (3607 : MRTC ROAD RACE)



**Road Running Technical Council
USA Track & Field**

Measurement Certificate



Name of the course RRS 5 Miler Distance 5 mi

Location (state) TN (city) Bartlett

Type of course: Road Race

Measuring Methods: Bicycle

Measured By Robert Hunter - 1877 E Churchill Downs - Germantown, TN 38138 - (901) 246-1565 - robhunter33@gmail.com

Race Contact Shan Criswell - 5868 Stage Rd, Bartlett, TN 38134 - 901-385-5552

Date(s) when course measured: 07/02/2022

Number of measurements of entire course: 2 Course Configuration: loop

Elevation (meters above sea level) Start 79.00 Finish 78.00 Lowest 76 Highest 95

Straight line distance between start and finish 70 m Drop 0.12 m/km Separation 0.87 %

Type of surface: Paved 100 % Dirt 0 % Gravel 0 % Grass 0 % Track 0 %

Effective date of certification: July 2, 2022 Certification code: TN22028MS

Note to Race Director: Use this Certification Code
in all public announcements relating to your race.

Be It Officially Noted That

Based on examination of data provided by the above named measurer, the course described above and in the map attached is hereby certified as reasonably accurate in measurement according to the standards adopted by the Road Running Technical Council. If any changes are made to the course, this certification becomes void, and the course must then be recertified.

Verification of Course --- In the event a National Open Record is set on the course, or at the discretion of USA Track & Field, a verification measurement may be required to be performed by a member of the Road Running Technical Council. If such a remeasurement shows the course to be short, then all pending records will be rejected and the course certification will be cancelled.

This certification expires on December 31 of the year: **2032**

AS NATIONALLY CERTIFIED BY:

Date: July 26, 2022

Matthew Studholme - USATF/RRTC Certifier - 813 Barton Ave, Chattanooga TN 37405
(276) 206-7202 - sheddingcat@comcast.net

Attachment: 21516617-Course and Traffic Control (3607 : MRTC ROAD RACE)

Officers needed for traffic control

1) Bartlett Blvd. and Ivanhoe to cross Bartlett Blvd for the start.

7.1.d

2) Hawthorn at Elmore Park.

3) Kenwood and Barrent.

4) Elmore at Bartlett (officer at start could move here)



USATF Certificate
 TN22028MS
 Effective: 07/02/2022
 Through: 12/31/2032

RRS 5 Miler, Bartlett, TN

Start—In N Bartlett Park Dr approx. 50' west of Bartlett Blvd, the washer, the washer is in line with the W edge of the concrete base of a st lt post on the south side and 42'4" W of the W edge of the sidewalk.

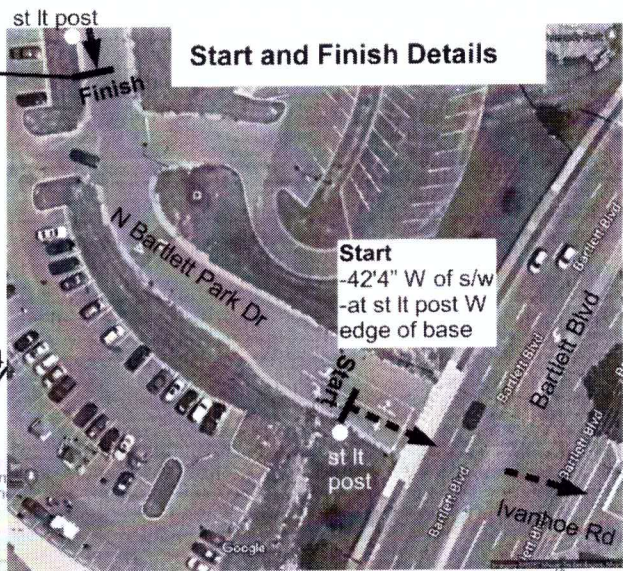
Mile 1—On W side of Elmore Park Dr at Elmore Civic Park grounds, the washer is 1' south of wood elec pole #85342 in the ditch.

Mile 2—At 5877 Diplomat Pl, the washer is 50'4" W of the brick mailbox on the south side.

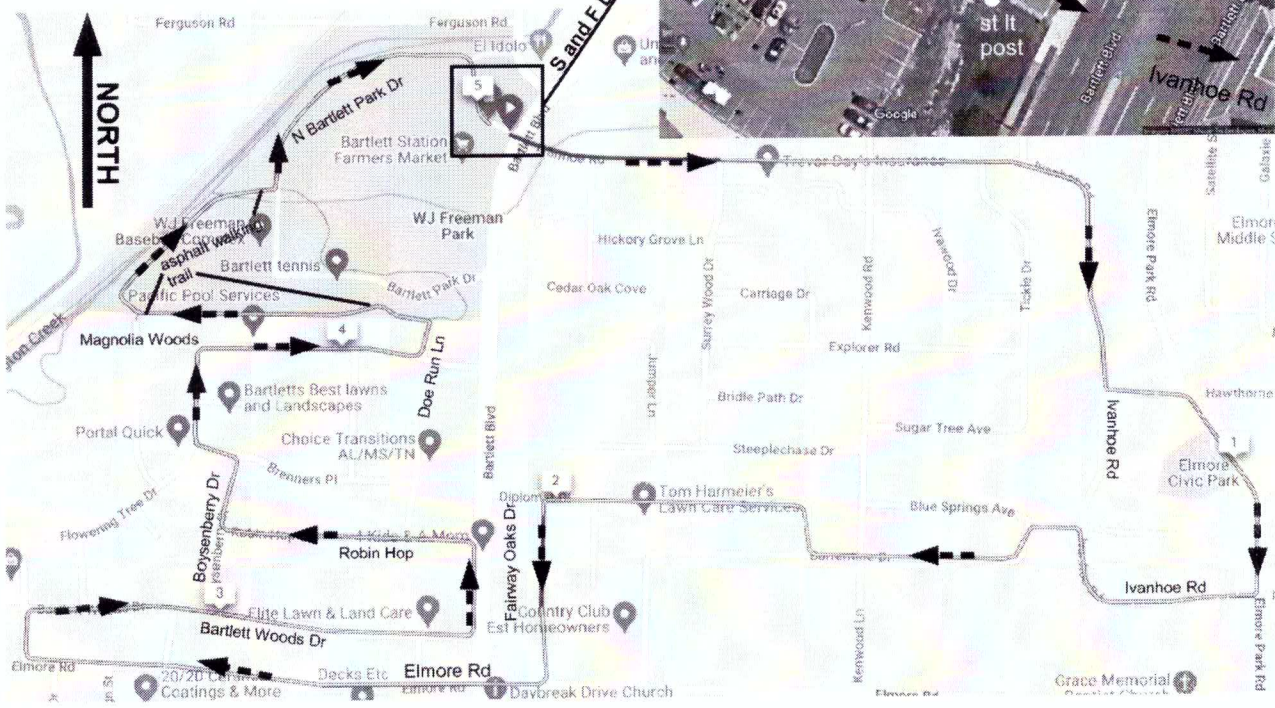
Mile 3—In Bartlett Woods Dr near the west curb line of Boysenberry Dr, the washer is 1'7" E of a water valve cover in the south side of the street.

Mile 4—At 5744 Magnolia Woods Dr, approx. 55' W of Honey Bee Ln, the washer is 30'6" W of a water meter cover on the south side.

Finish—In N Bartlett Park Dr approx. 275' W of Bartlett Blvd, the washer is 20'9" S of a st lt post and 30'6" N of the N curb of the entrance into the pavilion parking lot.



Note:
 --Measured SPR (Shortest Possible Route) on 7/2/2022.
 --All measurements to the nearest edge of monument or face of curb.
 --Measured by Rob Hunter 901-246-1565
 robhunter33@gmail.com and Kevin Raney 901-337-5354
 raney01k@bellsouth.net



Attachment: 21516617-Course and Traffic Control (3607 : MRTC ROAD RACE)

**Board of Mayor and Aldermen**

6400 Stage Road
Bartlett, TN 38134

SCHEDULED**AGENDA ITEM**

Meeting: 07/23/24 06:00 PM

Department: Public Works

Category: Purchase

Prepared By: Jessica Vaughan

Department Head: Matt Crenshaw

Purchase of Refuse Truck.



QUOTE

QUOTE # SECQ6898
 DATE Jul 8, 2024
 CONTRACT CUSTOMER ID # 27612
 CONTRACT # 091219-NWY

To: Steve Massey
 City of Bartlett
 6400 Stage Rd
 Bartlett, TN 38134
 United States

Sales Contact: Luke Vihon
 615-906-8884
 luke@secequip.com

Phone: (901) 385-5570
 smassey@cityofbartlett.org

QUOTE STATUS	SHIPPING TERMS	DELIVERY IN DAYS	PAYMENT TERMS
Sourcewell (NJPA)	Customer Location	90 - 120 Days	Net Delivery

QTY	DESCRIPTION
1	2025 Kenworth L770 Cabover
1	New Way 31yd Sidewinder ASL Including: -ASL, 31 YD, CAN BUS (27 + 4 TG) -29YD & 31YD Severe Refuse Package: 7GA AR Hopper FLR & Side Liner, Forward Panel of Body Side Wall 7GA AR450, Body Floor 7GA AR450 32" into Body, Chromium Overlay on Packer Guide Rails -96 Gallon Arm 6 x 6 Chains (Standard) -Arm Spill Shield (Standard Arm Only) -Front Cylinder Splash Shield -Hinged Front Cylinder Splash Shield -Trough Cleanout Tool -Tailgate Seal -Cleanout Chute Extension Both Sides -Hydraulic Hopper Cover -Hopper Access Ladder -Tool Brackets Sansom Installed -BODY Acrylic Urethane Enamel (White) -ARM Powder Coat (NEW WAY Safety Yellow) -Large Caution Decal -All LED Body Lights, Including Reverse and License Plate -LED Mid Body Backup Lights - Includes (2) Lights -LED Work Lights - (1) Light In Hopper and (1) Lwr fit bolster facing arm -Strobe Light (Surface Mount) Center Tailgate -Strobe Light Package (Integrated Strobe System) (2) round lights mounted upper tailgate Standard (128817 upr lightbar)" -Strobe Light Package (Integrated Strobe System) (2) round lights mounted lower tailgate" -Strobe Light Package (Integrated Strobe System) (2) round lights mounted front of body - bulkhead -Strobes Sansom Installed, Top Corners of Cab, Below Head Lights -Safety Vision Quad Camera system with 7" Color Monitor Center Tailgate location standard - Center Tailgate - Facing Rearward, Side of Body Facing Arm, Hopper, Upper Left Side, SS-Facing Rear Blindspot mounted on cab LEFT

Attachment: Bid Specs- Garbage Truck- Sourcewell 07-15-24 (3614 : Purchase of Refuse Truck)

QTY

DESCRIPTION

-2-Year Cylinder Warranty (Standard)
 -1-Year Body Warranty (Standard)
 -1-Year Arm Warranty (Standard)
 -1-Year Hydraulic Warranty (Standard)
 -Complete Mount (Standard)
 -Front Mount Hydraulic Pump, Tandem Vane
 -Remote Grease Zerk Tailgate and Upper Cylinder Hinge Pins (same as ground level grease Zerk)
 -Arm Control Joystick on Console (Standard)
 -Arm Controls Rocker Switches Under Seat
 -Arm Cycle Counter
 -Electronic Filter By-Pass Indicator In Cab
 -Hour Meter on PTO
 -Low Fluid Level Switch (Includes Shutdown)
 -Zinc Plated Tubes
 -Induction Hardened Pack Cylinders with Scrapers
 -Quick Disconnect Ports for Pressure Gauge
 -Fire Extinguisher – 20 lb. (Upgrade From 10 lb.)
 -Triangle Kit
 -User Manual

1 Sourcewell Discount

1 Freight

1 Five Year Engine and Aftertreatment Warranty can be added for \$2500

This quote does not include any federal, state, or local taxes.

* In stock equipment are subject to prior sale. *

This Quote is valid for 30 Days.

TOTAL \$425,909.68

Please contact me if I can be of further assistance.

BIRMINGHAM OFFICE

2800 Powell Avenue
 Birmingham, AL 35233
 Ph: (205) 324-3104
 Fax: (205) 324-2679

MOBILE OFFICE

2025 West I-65 Service Road North
 Mobile, AL 36618
 Ph: (251) 631-3766
 Fax: (251) 631-3768

SHELBYVILLE OFFICE

3196 Highway 231 North
 Shelbyville, TN 37160
 Ph: (615) 696-7066
 Fax: (615) 413-5323

STONECREST OFFICE

2601 South Stone Mountain Lithonia Road
 Stonecrest, Georgia 30058
 Ph: (706) 685-6900
 Fax: (706) 609-3491



HGACBuy™
THE SMART PURCHASING SOLUTION

Attachment: Bid Specs- Garbage Truck- Sourcewell 07-15-24 (3614 : Purchase of Refuse Truck)

**Board of Mayor and Aldermen**

6400 Stage Road
Bartlett, TN 38134

SCHEDULED**AGENDA ITEM**

Meeting: 07/23/24 06:00 PM

Department: Engineering

Category: Contract

Prepared By: John Horne

Department Head: John Horne

Commercial Subdivision Contract for Shamali Meat Shop and Grocery.

COMMERCIAL SUBDIVISION CONTRACT

THIS AGREEMENT, made and executed this _____ day of _____, _____ between the CITY OF BARTLETT, SHELBY COUNTY , TENNESSEE, hereinafter referred to as the CITY and MARWAN AND HANEEN SHAMALI hereinafter referred to as the DEVELOPER.

WITNESSETH:

WHEREAS, the CITY PLANNING COMMISSION has by resolution of DECEMBER 1, 2023, approved the Commercial Subdivision for SHAMALI SUBDIVISION, and established certain conditions for approval of this Commercial Subdivision Contract by the CITY BOARD OF MAYOR AND ALDERMEN; and

WHEREAS, the CITY and the DEVELOPER by the terms of this contract desire to specify those detailed costs, division of responsibilities and maintenance and other conditions in addition to the Subdivision Regulation heretofore approved, according to Law by the CITY PLANNING COMMISSION, said additional terms not to be considered as a variance from or modification to regulations, plans or plat, as approved on the date of execution; and

WHEREAS, this Subdivision Contract is entered into by the CITY at the insistence of the DEVELOPER upon the understanding that the DEVELOPER shall remain fully responsible for specific compliance with the requirements of the Subdivision Regulations, the Technical Specifications of the CITY, and the Construction Plans, duly approved by the CITY PLANNING COMMISSION subject to review and recommendation of the CITY ENGINEER, and

NOW, THEREFORE, in consideration of the promises and mutual covenants of the parties herein contained, and other considerations herein recited, it is agreed and understood as follows:

GENERAL PROVISIONS

1. That the DEVELOPER shall at its expense provide all improvements and installations to be constructed as set forth herein and on the approved Construction Plans, including construction of all off-site improvements and erosion control systems (pertaining to this development).
2. That the DEVELOPER shall pay the expenses of engineering inspection by the CITY ENGINEER, however, that the DEVELOPER shall remain fully responsible for construction to the approved design and quality control, and that the CITY ENGINEER is vested with the right of periodic inspections, final approval and stop work order as a measure of secondary or subsequent enforcement.
3. That the CITY in its proprietary function does not purport to specify the development layout nor the choice of available land uses; nor does the CITY PLANNER design, supervise, nor certify the adequacy, structural integrity, or capacity of improvements or installations within or without the limits of the development; neither is the CITY ENGINEER vested with any authority or responsibility for the design of any improvements or installations within or without the limits of the development; nor is the CITY ENGINEER required to determine the structural integrity, capacity, elevation, location, type or adequacy of any improvements or installations.
4. That in providing technical assistance, planning and review of the proposed grading and erosion control measures the CITY seeks to enforce its minimal governmental standards and does not relieve or accept any of the DEVELOPER'S liability and responsibility for proper design, construction and installation of improvements within or without the limits of the site plan.
5. That subject to the warranty provisions herein, after completion of the improvements, subject to final inspection and written approval of the CITY ENGINEER, the DEVELOPER does thereafter accept responsibility for all the maintenance of all improvements.
6. That the DEVELOPER shall haul all scrap building materials, debris, rubbish, and other

de-gradable materials to a permitted landfill, and not bury any such materials within the limits of said site plan (except if they are permitted to burn by Shelby County Health Department and the Bartlett Fire Department).

7. That if a bond has been executed to secure the value of the improvements to be constructed and installed under this contract and said bond, due to inflation and/or rising costs, is inadequate to secure the cost of said improvements when an extension of the contract period is sought, the DEVELOPER shall provide the additional security to bring the bond amount in line with current cost projections by the CITY ENGINEER and approved by the CITY BOARD OF MAYOR AND ALDERMEN.

8. That the CITY and any of its agencies will not unreasonably withhold approval of time extensions where the DEVELOPER has provided the required notice to the CITY ENGINEER and such additional security as may be deemed necessary.

9. That the DEVELOPER understands that failure to follow this time extension procedure constitutes a breach of contract and places the DEVELOPER in violation of the Subdivision Regulations and subject to a declaration of default.

10. That the DEVELOPER will not transfer the property on which this subdivision is to be located without first providing the CITY ENGINEER with prior notice of when and to whom transfer is to be made. If the transferee intends to develop this site plan in accordance with the approved Master Plan, the DEVELOPER shall provide the CITY ENGINEER and the CITY ATTORNEY an Assumption Agreement by which the transferee agrees to perform and complete all the requirements of this contract and to provide the surety needed to secure such performance. Said agreement shall be subject to approval of the CITY BOARD OF MAYOR AND ALDERMEN.

11. That the DEVELOPER understands that transfer of said property without providing the notice of transfer and Assumption Agreement as required herein shall be a breach of contract and places the DEVELOPER in violation of the Subdivision Regulations and subject to a declaration of

default.

12. That the DEVELOPER shall comply with all applicable Federal, State, and local laws, and it shall be the DEVELOPER'S responsibility to furnish proof of said compliance upon demand.

13. That should the DEVELOPER default in any part of this contract and it becomes necessary to engage an attorney to file necessary legal action to enforce the provisions of this contract or sue for any sums of money due and owing or liability arising incident to this contract, the DEVELOPER shall pay to the CITY reasonable attorney's fees.

14. That the Developer shall furnish, on demand of the CITY ATTORNEY, satisfactory evidence that the DEVELOPER has the lawful right to enter into this contract for the purpose herein contained.

II

FIXED IMPROVEMENTS

1. The construction of all required improvements by the DEVELOPER including but not limited to the sediment ponds, silt fence, rip-rap check dams, erosion control blankets, storm drain systems, sidewalk, driveway apron, landscape screen, and other related items, shall be in accordance with the subdivision regulations and specifications of the CITY OF BARTLETT, which are incorporated by reference herein and said fixed improvements required approval and acceptance by the CITY OF BARTLETT. Said plans shall bear the signature of approval by the CITY ENGINEER before construction may commence. The DEVELOPER will pay the expenses of engineering inspection by the CITY ENGINEER, the DEVELOPER shall remain primarily responsible for construction to approve design and quality control and the CITY ENGINEER is vested with the right of periodic inspections, final approval and stop work order as a measure of secondary or subsequent enforcement.

III

SEDIMENT AND DEBRIS

1. The DEVELOPER will hold the CITY OF BARTLETT and the CITY ENGINEER harmless and defend all claims, judgments and demands of all persons for damage caused by the deposit of more sediment or debris from drainage flowing from said site plan. Further, the DEVELOPER shall bear the expense of erosion and sediment control and dust abatement before, during and after construction during the warranty period.
2. That the DEVELOPER shall provide necessary erosion control in accordance with the CITY Subdivision Regulations and Technical Specifications and TDEC approval. All freshly excavated and embankment areas, not covered with satisfactory vegetation, shall be fertilized, mulched and seeded and/or sprigged and/or sodded as required by the CITY ENGINEER to prevent erosion. In event it is determined by the CITY ENGINEER that the necessary erosion control is not being provided by the DEVELOPER, the CITY ENGINEER shall officially notify the DEVELOPER of the problem. If the DEVELOPER fails to provide satisfactory erosion control within fifteen (15) days after notice, then the CITY shall make all necessary improvements to eliminate the erosion problem, documenting all expenses incurred performing the work. Prior to releasing any bonds or other securities covering said subdivision, all expenses incurred by the CITY shall be paid in full by the DEVELOPER.
3. That the DEVELOPER shall maintain work sites within and without the subdivision in a manner which will prevent increased sedimentation, debris and pollution from drainage flowing from said site. In the event of a stop work order issued by the CITY ENGINEER, the DEVELOPER shall be permitted a reasonable time to continue work required to comply with this Section. Further, the DEVELOPER shall bear the expense of erosion, sediment, and insect vector control before, during and after construction, and until termination of the warranty period. It is noted that the warranty period shall run for an indefinite period until such time as the punch list is

complete, or warranty period ends; whichever is later.

IV

DRAINAGE DESIGN RESPONSIBILITIES

1. That the DEVELOPER shall construct and install all erosion control measures, including swales, ditches, sedimentation ponds and etc. Said erosion control measures system shall be designed such that the amount and rate of water from all sources leaving the subdivision after full building development shall not be significantly different after than before said development unless approved by the CITY ENGINEER upon certification of a Professional Engineer registered in the State of Tennessee that the Drainage system design and improvements are sufficient to accept surface and ground water reasonably expected to flow onto the subdivision and discharge all waters reasonably expected to flow from the property so as not to damage or flood properties nor to increase the established base flood elevation of the upstream or downstream portion of Flood Way within or without the site. Further, that the adequacy of the drainage shall in all cases be certified by the DEVELOPER'S engineer by his signature and seal affixed upon the Constructions Plans of said property prior to the final approval by the CITY PLANNING COMMISSION.

2. That in any development which alters or revises the Flood Plain or Flood Way shown on the Flood Hazard Boundary Map issued by the Federal Emergency Management Region Office, the DEVELOPER shall provide to the CITY FLOOD ADMINISTRATOR a Development Permit issued by the Federal Insurance Administration Regional Office accepting said alteration or revision of the Flood Plain or Flood Way. Further, until said Development Permit is provided the DEVELOPER shall not proceed with any work affecting the Flood Plain or Flood Way.

3. It is understood and agreed that the CITY OF BARTLETT in its proprietary function does not purport to specify the development layout nor the choice of available land uses; nor does the CITY

OF BARTLETT design, construct, supervise nor certify the adequacy of the drainage improvements.

4. Neither is the CITY ENGINEER vested with any responsibility for the design of drainage improvements nor is he required to determine drainage capacities, survey elevation, cross check adequacy nor specify the type and locations of drainage improvements; and in providing technical assistance, planning and review the CITY OF BARTLETT does not commit itself to the construction, improvements or modification of the drainage system within or without the development.

5. Rather it is the responsibility of the DEVELOPER to properly anticipate, survey, design and construct all grading and erosion control improvements so that the development will not increase, alter or affect the flow of surface waters or channelized waters from or onto any property so as to damage or flood any property nor contribute to the same.

6. In providing technical assistance, planning and review the CITY OF BARTLETT seeks to enforce its minimal governmental standards and does not relieve or accept any of the Developers liability and responsibility to properly design and construct the site plan, grading, and erosion control measures.

7. The DEVELOPER further agrees to hold harmless the CITY OF BARTLETT and the CITY ENGINEER from any loss or damage from any claim, cause of action or liability resulting in whole or part from the design, construction and/or installation of the grading and erosion control measures including reasonable costs, litigation expenses and attorneys fees for defense of same.

8. As long as the City of Bartlett holds security, be it bond, letter of credit or otherwise, the City of Bartlett reserves the right to use said security for completion or repair of the erosion control measures during the warranty period of the development or for routine maintenance not performed by the DEVELOPER.

WARRANTY PROVISIONS

1. That neither the final certificate of payment nor any provision of this contract or its incorporated documents shall constitute an approval or acceptance of any work not performed in accordance with the contract and its incorporated documents, nor relieve the DEVELOPER of liability with respect to any express warranty or responsibility for faulty materials or workmanship.
2. That the DEVELOPER shall remedy any defects in work and pay for any damage to other work resulting therefrom which shall appear within a period of one (1) year from the date of final written approval and acceptance. The CITY shall give notice of observed defects with reasonable promptness. Further, this Construction Warranty does not effect but is in addition to the rights and liabilities assessed herein unless a longer period is specified.
3. That throughout the warranty period beginning at final acceptance the DEVELOPER shall provide a bond or other surety securing such warranty for all improvements in a form, amount and with terms acceptable to the CITY BOARD OF MAYOR AND ALDERMEN. The warranty period is to extend to a minimum of one (1) year after the City's final acceptance.
4. That the DEVELOPER shall complete all improvements in this contract within 360 consecutive calendar days from the date hereof; however, if due to unforeseen circumstances, the DEVELOPER is unable to complete said work within the times specified, but desires to complete said contract to the satisfaction of the CITY, the DEVELOPER will submit a written request for extension of the contract period to the CITY ENGINEER at least sixty (60) days prior to the expiration date for such completion, but in no case shall such date exceed one (1) calendar year from the completion date specified in any Performance Bond, provided said bond can be extended

for the additional period.

VI

BONDING REQUIREMENTS

That prior to proceeding with any site preparation, construction or installation of improvements the DEVELOPER shall deposit with the CITY all required fees and assessments for said improvements in a form approved by the CITY BOARD OF MAYOR AND ALDERMEN.

Further, prior to proceeding as stated herein, the DEVELOPER shall deliver to the CITY a Certificate of Deposit, Letter of Credit, or cash bond in the amount identified on Page 12 of said Contract. Further, prior to proceeding as stated herein, the DEVELOPER shall deliver to the City an approved N.O.I. (Notice of Intent), and SWPPP (Storm Water Pollution Prevention Plan) approved by TDEC (Tennessee Department of Environment and Conservation) as required by the Storm Water Phase 2 requirements.

VII

HOLD HARMLESS

That the DEVELOPER shall hold harmless the CITY and the CITY ENGINEER from any claim, cause of action or liability resulting in whole or in part from the design, construction or installation of the improvements within and without the limits of the subdivision, including reasonable costs, litigation expenses and attorney's fees for defense of same.

SPECIAL CONDITIONS

1. This subdivision is located within the Fletcher Creek Sewer Basin serviced by the City of Memphis, which at the time of this contract execution, has suspended new sewer connections to the system in order to curb capacity flows. However the City of Memphis has allowed connections to resume provided the permitted user provide off-line storage between the hours of 5 AM and 11 PM. The stored sewerage may then be pumped into the system between the hours of 11 PM and 5 AM. As the lots created with the contract are developed the owners must install this storage via tank, as recorded on the plat. This storage must be approved by both the City of Bartlett and the City of Memphis prior to connection to the sewer system.

VIII

PAYMENT AND SCHEDULE BARTLETT, TENNESSEE. THE DEVELOPER WILL PAY TO THE CITY OF BARTLETT THE FOLLOWING AMOUNTS AS HEREINBEFORE DETAILED FOR:

MARWAN AND HANEEN SHAMALI

I. Due at Execution of Subdivision and Site Plan Contract and before Construction Begins:

1.	Water Plant Expansion @ 15% of Water Main Cost (Water Main Cost = \$19,353.75)	<u>\$2,903.06</u>
2.	a. 'Water System Engineering and Subdivision Review (@) 6% of Water Main Cost \$19,353.75	<u>\$1,161.23</u>
	b. Subdivision and Site Plan Review Fee @ \$175 per lot or 1.5% of Public Improvement Cost, whichever is greater \$175 x 1 = \$ 350.00 1.5% of \$92,997.75 \$1,394.97	<u>\$1,394.97</u>
3	Sewer Review Fee - \$10 per lot or \$25 per 250 feet of sewer line extension (whichever is greater) Minimum charge of \$25 per contract \$10.00 implies \$20.00 \$25.00 implies \$25.00	<u>\$25.00</u>
4	Water Connection Fee @ \$3,000.00 per service (1) Domestic, (1) Irrigation 2	<u>\$6,000.00</u>
5	City Site Plan Inspection @ A: 3% of Development Cost \$2,789.93 or B: \$300.00 per Lot, \$600.00 Whichever is greater Development Cost = \$92,997.75	<u>\$2,789.93</u>
6	Cost of Water and Sewer Mains to the Subdivision	

Attachment: SHAMALI COMMERCIAL SD CONTRACT (3615 : Commercial Subdivision Contract for Shimali Subdivision)

SEWER BASIN: SOUTH

7	Sewer Connection Charge at Greater of either @ \$2333 per acre	1.05 Acres (Total Site)
	\$ 2,449.65	\$2,449.65
	(or) \$33 per Front Foot x 114'	\$3,762.00

\$3,762.00

DRAINAGE BASIN: SOUTH

- 8 a. 'Drainage Control Fee for those lots
not served by a Detention Basin at \$500.00 per half acre or fraction thereof
(in multiples of \$500)

- b. 'Drainage Control Fee for those lots
served by a Detention Basin at \$250 per half acre or fraction thereof
(in multiples of \$250)

1.05 Acres Detained \$ 500.00

\$500.00

- 9 City portion of Water Improvements N/A

TOTAL DUE CITY**\$18,536.19**

II. Due after date of Subdivision Contract and within 30 days
after written request from the City's Department of Public Works.

1. Asphalt Paving Cost (Estimated Construction Cost) \$ -

2. Street Light (Estimated) \$ -

TOTAL DUE II**\$ -**

III. Upon Execution of Subdivision Contract and
Before Construction Begins 100% of Development Cost

BOND**\$92,997.75**

Attachment: SHAMALI COMMERCIAL SD CONTRACT (3615 : Commercial Subdivision Contract for Shimali Subdivision)

IN WITNESS WHEREOF, the parties hereto have affixed their hands and seals at

Bartlett, Tennessee, this _____ day of _____, _____.

DAVID PARSONS
MAYOR, CITY OF BARTLETT

DEVELOPER:

MARWAN SHAMALI

HANEEN SHAMALI

ATTEST:

CITY CLERK

BONDING COMPANY

LETTER OF CREDIT, APPROVED BY CITY ATTORNEY

BY: _____
CITY ENGINEER

DATE APPROVED BY BOARD OF MAYOR AND ALDERMEN _____

DESIGN GROUP, LLC.

1255 Lynnfield Road, Suite 226
Memphis, Tennessee 38139
Telephone: 901.603-8765

E-Mail: nkumar@designgroupmemphis.com



LIST OF DRAWINGS

- | | |
|-----------------------|-------------------------------|
| CS001 | COVER SHEET |
| LANDSCAPE: | |
| L1.1 | PLANTING NOTES & DETAILS |
| L1.2 | PLANTING PLAN |
| ARCHITECTURAL: | |
| A100 | SITE PLAN |
| A100b | DUMPSTER DETAIL |
| A300 | ELEVATIONS |
| A300.1 | COLORLED ELEVATIONS |
| A301 | ELEVATIONS |
| A301.1 | COLORLED ELEVATIONS |
| ELECTRICAL: | |
| E101 | SITE PHOTOMETRIC PLAN |
| E102 | PARKING AREA PHOTOMETRIC PLAN |
| E103 | SITE PLAN-ELECTRICAL |
| E104 | FIXTURE DETAILS-ELECTRICAL |

VICINITY MAP

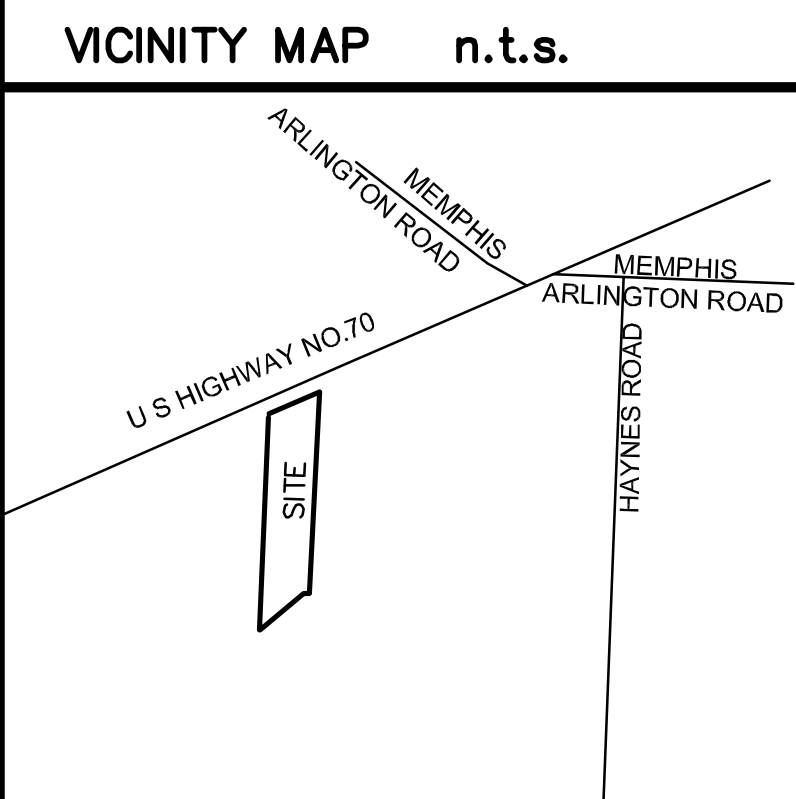


SHEET NUMBER

CS001

1. SETBACKS
A. MIN. FRONT- 60 FEET
B. MIN SIDE YARD- NONE
C. MIN. REAR- 20 FEET
2. THIS PROPERTY IS NOT LOCATED IN A SPECIAL FLOOD HAZARD AREA PER FEMA FLOOD MAP #47157C0270F SEPTEMBER 28, 2007.
3. IF SETTLEMENT OCCURS ALONG ANY OF THE THE PUBLIC EASEMENTS WITHIN THE PRIVATE PROPERTY, THE OWNER SHALL BE RESPONSIBLE FOR ALL REPAIRS. IN THE EVENT THAT "PUBLIC WORKS" HAS TO EXCAVATE TO REPAIR A LEAK IN A PUBLIC LINE, "PUBLIC WORKS" SHALL BE RESPONSIBLE FOR EXCAVATION, BACKFILL, COMPACTION AND BRINGING THE AFFECTED AREA UP TO GRADE WITH APPROPRIATE SUB-BASE MATERIAL, BUT THE OWNER SHALL BE RESPONSIBLE FOR ALL FINISH WORK INCLUDING, BUT NOT LIMITED TO ASPHALT, CONCRETE AND LANDSCAPING.
4. DRIVEWAYS AND OTHER PERMANENT STRUCTURES/IMPROVEMENTS SHALL NOT BE PLACED IN SEWER, WATER, OR DRAINAGE EASEMENTS OR OVER SEWER AND WATER SERVICES LOCATED ON PRIVATE PROPERTY.
5. THE CITY SHALL HAVE INGRESS/ EGRESS RIGHTS TO USE PRIVATE DRIVES AND YARDS FOR THE PURPOSE OF MAINTAINING ALL PUBLIC UTILITIES AND SHALL BEAR NO RESPONSIBILITY FOR THE MAINTENANCE OF SAID DRIVES AND YARDS.
6. ALL NEW UTILITIES SHALL BE UNDERGROUND.

PROPOSED USE:	RETAIL
SITE AREA:	0.98 ACRES
BUILDING SIZE:	3500 S.F. STORE
FAR:	0.08
REQUIRED GREENSPACE:	35%
PROVIDED GREENSPACE:	59%
PARKING REQUIRED:	18 SPACES
PARKING PROVIDED:	18 SPACES (1 ADA)



Pavement recommendations:

The recommendations for pavement sections are as follows:

FLEXIBLE PAVEMENT:

HEAVY DUTY PAVEMENT:

- 1.0 inches wearing course Hot Mix Asphaltic Concrete
- 2.0 inches binder course Hot Mix Asphaltic Concrete
- 8.0 inches Soil Cement Base or
- 10.0 inches Crushed Stone Base

LIGHT DUTY PAVEMENT (parking area):

- 1.0 inches wearing course Hot Mix Asphaltic Concrete
- 2.0 inches binder course Hot Mix Asphaltic Concrete
- 2.0 inches Soil Cement Base or
- 8.0 inches Crushed Stone Base

RIGID PAVEMENT

HEAVY DUTY:

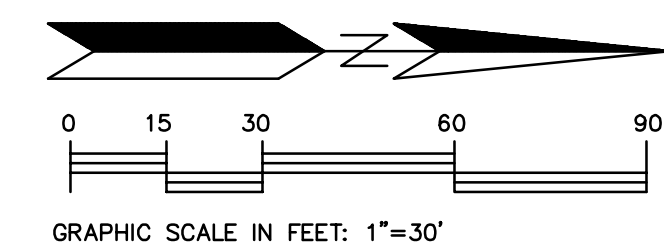
- 6.0 inches Portland Cement Concrete
- 6.0 inches Granular Sub Base

LIGHT DUTY

- 5.0 inches Portland Cement Concrete
- 6.0 inches Granular Sub Base (optional)

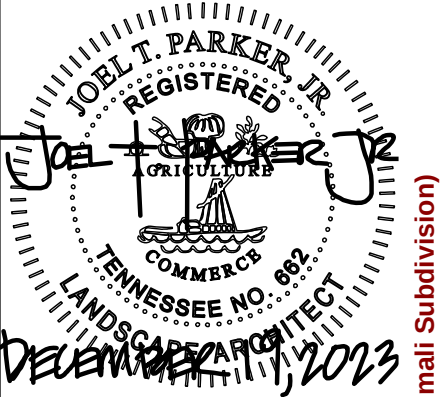
Dumpster areas and truck loading areas shall have 7.0 inches.

DEVELOPER: MARWAN AND HANEEN SHAMALI
ENGINEER: THE BRAY FIRM



BARTLETT, TENNESSEE

CITY ENGINEER _____ DATE _____



LOT 1, SHAMALI SUBDIVISION
BARTLETT, TENNESSEE

Attachment: DRC PLANS (9815 - Commercial Subdivision Contract for Shimal Subdivision)

REVISIONS				
DATE	MARK	BY		
	△			

JOB NUMBER
23115

DRAWN BY: JTP
DATE: 12.19.2023

L1.1

PLANTING NOTES & DETAILS
DESIGN REVIEW COMMISSION
FOR REVIEW AND COMMENT ONLY -
NOT FOR CONSTRUCTION

GENERAL PLANTING NOTES:

- SUBSTITUTIONS: DO NOT MAKE SUBSTITUTIONS WITHOUT PRIOR OWNER AND LANDSCAPE ARCHITECT APPROVAL. SHOULD IT BE NECESSARY TO MAKE SUBSTITUTIONS, SUBMIT A LETTER TO THE OWNER AND LANDSCAPE ARCHITECT STATING REASON AND ANY DIFFERENCE IN PRICE RESULTING FROM SUCH SUBSTITUTIONS. WRITTEN AUTHORIZATION FROM OWNER AND LANDSCAPE ARCHITECT IS REQUIRED PRIOR TO PROCEEDING WITH SUBSTITUTIONS.
- ALL PLANTINGS TO REMAIN THREE FEET (3') CLEAR OF ANY FIRE HYDRANT. FIRE HYDRANTS TO HAVE A SIX FOOT (6') DIAMETER CLEAR AREA. CONTRACTOR (INSTALLER) TO NOTIFY LANDSCAPE ARCHITECT OF ANY PROPOSED PLANTINGS WHICH CONFLICT WITH THIS SIX FOOT (6') DIAMETER CLEAR AREA. PROPOSED PLANTINGS WILL BE ADJUSTED AS REQUIRED.
- THE QUANTITIES OF PLANT MATERIAL SHOWN ON PLAN ARE TO SUPERSEDE THOSE LISTED IN THE PLANT MATERIAL SCHEDULE. THE CONTRACTOR (INSTALLER) SHALL CONFIRM QUANTITIES OF PLANT MATERIAL AS SHOWN PER PLAN.
- PLANTS DESIGNATED "B&B" IN THE PLANT SCHEDULE SHALL BE BALLED AND BURLAPPED. THEY SHALL BE DUG WITH FIRM, NATURAL BALLS OF EARTH OF SUFFICIENT DIAMETER AND DEPTH TO ENCOMPASS THE FIBROUS AND FEEDING ROOT SYSTEM NECESSARY FOR FULL RECOVERY OF THE PLANT. BALLS SHALL BE FIRMLY WRAPPED WITH HEMP BURLAP OR SIMILAR MATERIAL AND BOUND WITH TWINE OR CORD.
- USE ONLY "HEMP" BURLAP AND TWINE. DO NOT USE PRESERVED BURLAP OR TWINE. REMOVE ALL HEMP TWINE ATTACHED TO THE TREE TRUNK AFTER PLANTING.
- ROOT BALLS SHALL HAVE A MINIMUM DIAMETER IN FEET EQUAL TO TEN INCHES (10") PER CALIPER INCH OF THE TREE TO BE TRANSPLANTED.
- THE BALLS OF "B&B" PLANTS WHICH CANNOT BE PLANTED IMMEDIATELY UPON DELIVERY SHALL BE COVERED WITH MOIST SOIL, MULCH OR OTHER PROTECTION FROM DRYING WINDS AND SUN. THE CONTRACTOR (INSTALLER) SHALL WATER ALL PLANTS AS NECESSARY UNTIL PLANTING.
- NO PLANT SHALL BE BOUND WITH WIRE OR ROPE AT ANY TIME SO AS TO DAMAGE THE BARK, BREAK BRANCHES OR DISFIGURE/DESTROY ITS NATURAL SHAPE.
- HANDLE ALL PLANTS SO THAT ROOTS ARE ADEQUATELY PROTECTED AT ALL TIMES. DURING SHIPMENT, PROTECT THE ENTIRE PLANT WITH TARPAPLINS OR OTHER SUITABLE COVERING. PLANT MATERIAL SUFFERING FROM WIND BURN OR OTHER WIND DAMAGE IS NOT ACCEPTABLE.
- NO MATERIAL REQUIRED TO BE BALLED AND BURLAPPED SHALL BE ACCEPTED IF THE BALL IS CRACKED OR BROKEN (EITHER BEFORE OR DURING THE PROCESS OF PLANTING) OR IF BURLAP, STAVES, ROPES OR PLATFORM HAVE BEEN REMOVED.
- PRIOR TO THE EXCAVATION OF PLANT PITS AND DRIVING OR PLACING OF STAKES OR DEADMEN, THE CONTRACTOR (INSTALLER) SHALL LOCATE ALL ELECTRIC CABLES, CONDUITS, UTILITY LINES, ETC. AND TAKE PROPER PRECAUTIONS TO PREVENT DAMAGE TO SUCH SUBSURFACE IMPROVEMENTS. IN THE EVENT THAT ANY UTILITIES ARE DISTURBED, THE CONTRACTOR (INSTALLER) SHALL PROMPTLY NOTIFY THE PROJECT MANAGER, FOR LINE LOCATIONS CALL 811 OR VISIT: WWW.CALL811.COM
- CONTRACTOR (INSTALLER) SHALL ENSURE PERCOLATION OF ALL PLANTING PITS PRIOR TO INSTALLATION.
- CONTRACTOR (INSTALLER) SHALL VERIFY THAT REQUIRED UNDERGROUND UTILITIES ARE AVAILABLE, IN PROPER LOCATION AND READY FOR USE.
- NOTIFY THE LANDSCAPE ARCHITECT IMMEDIATELY OF ALL UNSATISFACTORY DRAINAGE OR SOIL CONDITIONS. OBTAIN APPROVAL OF METHOD OF CORRECTION BEFORE CONTINUING THE AFFECTED PORTION OF THE WORK. ALTERNATE PLANT LOCATIONS MAY BE SELECTED BY LANDSCAPE ARCHITECT. CONTRACTOR (INSTALLER) TO PREPARE SUCH ALTERNATE PLANT PITS AT NO ADDITIONAL COST TO OWNER.
- BEGINNINGS INSTALLATION MEANS ACCEPTANCE OF EXISTING CONDITIONS..
- ANY SERIES OF TREES OR SHRUBS TO BE PLACED IN A PARTICULAR ARRANGEMENT WILL BE FIELD CHECKED FOR ACCURACY BY LANDSCAPE ARCHITECT. RELOCATE ANY PLANTS INCORRECTLY ARRANGED AS DIRECTED BY THE LANDSCAPE ARCHITECT.
- PRE-EMERGENT HERBICIDE (TREEPLAN OR APPROVED EQUAL) SHALL BE APPLIED (IN ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS) TO ALL PLANT BEDS PRIOR TO PLANTING FOR NOXIOUS WEED CONTROL.
- ALL PLANTING BEDS SHALL BE EXCAVATED TO RECEIVE A MINIMUM 3" DEEP LAYER OF MULCH.
- CONTRACTOR (INSTALLER) SHALL PROVIDE A WARRANTY ON THE WORK OF THIS SECTION FOR A MINIMUM OF ONE (1) YEAR, INCLUDING ONE (1) CONTINUOUS GROWING SEASON. WARRANTY SHALL COMMENCE ON DATE OF FINAL ACCEPTANCE
- CONTRACTOR (INSTALLER) SHALL PROVIDE SUPPLEMENTAL WATERINGS DURING THE ONE (1) YEAR WARRANTY PERIOD AS NECESSARY FOR VIGOROUS PLANT HEALTH.
- ALL PLANTING BEDS ARE TO BE ROTO-TILLED TO A MINIMUM OF 12 INCHES (12") DEEP. AMEND EXISTING SOIL WITH A COMPOSTED ORGANIC MATTER TO BRING THE ORGANIC CONTENT OF THE SOIL TO A FIVE PERCENT (5%) DRY WEIGHT.
- IN AREAS WHERE BEDS ARE TO BE CREATED OR TREES INSTALLED IN EXISTING TURF, TURF IS TO BE REMOVED PRIOR TO CONSTRUCTION OF THE BED OR EXCAVATION OF THE TREE PIT.
- TREE PLANTING PITS: AMEND EXISTING SOIL WITH A COMPOSTED ORGANIC MATTER TO BRING THE ORGANIC CONTENT OF THE BACKFILL TO A FIVE PERCENT (5%) DRY WEIGHT.
- LABEL AT LEAST ONE TREE, PLANT AND GROUNDCOVER OF EACH VARIETY WITH A WATER-PROOF TAG BEARING LEGIBLE DESIGNATION OF BOTANICAL AND COMMON NAME EITHER SECURELY ATTACHED OR INSTALLED ADJACENT TO PLANT.
- DO NOT REMOVE LABELS ATTACHED TO PLANT MATERIAL UNTIL DIRECTED TO DO SO BY THE LANDSCAPE ARCHITECT.
- DIMENSIONS FOR HEIGHT, SPREAD AND TRUNK CALIPER, AS SPECIFIED ON THE PLANT MATERIAL SCHEDULE, ARE A GENERAL GUIDE FOR THE MINIMUM REQUIRED SIZE OF EACH PLANT.
- PRUNING: EACH TREE OR SHRUB SHALL BE PRUNED AT THE DISCRETION OF OR AS DIRECTED BY LANDSCAPE ARCHITECT, AND IN ACCORDANCE WITH STANDARD HORTICULTURAL PRACTICE, TO PRESERVE THE NATURAL CHARACTER OF THE PLANT, BUT IN NO CASE SHALL THE PLANTS SUPPLIED UNDER THIS CONTRACT BE PRUNED BACK TO SUCH AN EXTENT THAT THEY NO LONGER MEET SPECIFICATIONS. REMOVE OR CUT BACK BROKEN, DEAD, DAMAGED, SUCKER GROWTH AND UNSYMMETRICAL GROWTH OF NEW WOOD AS DIRECTED BY THE LANDSCAPE ARCHITECT.
- UPON COMPLETION OF WORK, NOTIFY LANDSCAPE ARCHITECT AT LEAST TEN (10) WORKING DAYS PRIOR TO REQUESTED DATE OF INSPECTION. WHERE INSPECTED LANDSCAPE WORK DOES NOT COMPLY WITH REQUIREMENTS, REPLACE REJECTED WORK AND CONTINUE SPECIFIED MAINTENANCE UNTIL WORK IS RE-INSPECTED BY LANDSCAPE ARCHITECT AND FOUND TO BE ACCEPTABLE. REMOVE REJECTED PLANTS AND MATERIALS PROMPTLY FROM PROJECT SITE.
- UPON SATISFACTORY COMPLETION OF REPAIRS AND/OR REPLACEMENTS, THE LANDSCAPE ARCHITECT SHALL CERTIFY, IN WRITING, THE ACCEPTANCE OF THE WORK IN TOTAL.
- THE ONE (1) YEAR WARRANTY PERIOD BEGINS ON THE DATE OF THE FINAL ACCEPTANCE.

SOIL TESTING AND AMENDMENT:

- PERFORM SOIL TESTING PRIOR TO THE INSTALLATION OF ANY SPECIFIED MATERIAL.
- COLLECT SOIL SAMPLES AT LOCATIONS AS IDENTIFIED ON PLANS. IF SPECIFIC LOCATIONS ARE NOT INDICATED ON PLANS THE CONTRACTOR IS TO PROVIDE A SITE PLAN MARKUP INDICATING SOIL SAMPLE LOCATIONS FOR SUBMISSION AND APPROVAL BY LANDSCAPE ARCHITECT PRIOR TO COLLECTION AND TESTING.
- COLLECT ONE TO ONE AND A HALF CUPS OF SOIL. APPROVED TOOLS INCLUDE, SPADE OR SHOVEL, SOIL SAMPLING TUBE, OR SOIL AUGER. SAMPLE TUBES OR AUGERS SHOULD EITHER BE STAINLESS STEEL OR CHROME PLATED.
- THE SOIL SAMPLE SHOULD BE OBTAINED FROM THREE (3) AREAS AT THE SPECIFIED TEST LOCATION. MIX CORES OR SLICES TOGETHER IN A CLEAN PLASTIC CONTAINER AND TAKE ENOUGH SUBSAMPLE TO FILL THE SOIL SAMPLE BAG PROVIDED BY THE LABORATORY.
- WHEN SAMPLING, SCRAPE AWAY ANY PLANT RESIDUE AND SAMPLE TO SIX INCHES (6").
- THE SOIL TEST REPORT SHOULD PROVIDE THE FOLLOWING DATA: SOIL PH, PHOSPHORUS (P), POTASSIUM (K), CALCIUM (Ca), MAGNESIUM (Mg), SULFUR (S), BORON (B), COPPER (Cu), IRON (Fe), MANGANESE (Mn), ZINC (Z) AND ORGANIC MATTER.
- PROVIDE TEST RESULTS TO LANDSCAPE ARCHITECT
- RECOMMENDED RANGES - SOIL PH 6.0 TO 8.0, PHOSPHORUS (P) 20-40 PPM, POTASSIUM (K) 150-250 PPM, CALCIUM (Ca) TO MAGNESIUM (Mg) RATIO BETWEEN 5:1 AND 8:1, MAGNESIUM (Mg) 30-70 PPM, SULFUR (S) 12-25 PPM, BORON (B) 0.9-1.5 PPM, COPPER (Cu) 0.9-1.2 PPM, IRON (Fe) 100-200 PPM, MANGANESE (Mn) 40-60 PPM, ZINC (Z) 3.1-20 PPM AND ORGANIC MATTER 5%.
- SOILS NOT MEETING THE REQUIREMENTS ARE TO BE AMENDED AND RE TESTED EVERY SIX WEEKS UNTIL SATISFACTORY RANGES ARE ACHIEVED.

SODDING:

- SOD ALL DISTURBED AREAS, AS INDICATED ON PLANS OR REQUESTED BY OWNER OR LANDSCAPE ARCHITECT, WITH SPECIFIED SOD TYPE. SLOPES GREATER THAN 3:1 SHALL BE PEGGED TO HOLD SOD IN PLACE. ALL DRAINAGE SHALES ARE TO BE SODDED AND PEGGED.
- THOROUGHLY TILL SOIL TO A DEPTH OF FOUR INCHES (4") WITH SIX CUBIC FOOT (6 CUFT.) OF PROMIX, TWENTY FIVE POUNDS (25 LBS.) OF A COMPLETE FERTILIZER AND ONE CUBIC YARD (1 CU YD.) OF SAND PER ONE THOUSAND SQUARE FEET (1000 SQ.FT.) OF LAWN AREA. FOLLOWING THIS, THE SOD AREA SHALL BE FINE GRADED TO REMOVE ALL RIDGES AND DEPRESSIONS AND THE SURFACE CLEARED OF ALL STONES, STICKS, WEEDS AND OTHER DEBRIS.
- PROMIX: MIX OF SANDY LOAM, PINE FINES, MULCH FINES, COMPOST AND SAND.
- SOD IS TO BE ROLLED AND WATERED AT THE TIME OF INSTALLATION.
- LAY SOD TIGHT WITH NO OPEN JOINTS AND NO OVERLAPPING; STAGGER END JOINTS TWELVE INCHES (12") MINIMUM. DO NOT STRETCH OR OVERLAP SOD PIECES.
- LAY SOD AS SOON AS IT IS DELIVERED TO PLANTING AREAS. LAY ONLY HEALTHY, MOIST, GREEN SOD. ANY SOD WHICH IS BROWN AND UNDER STRESS IS UNACCEPTABLE. ANY SOD WHICH IS NOT LAID WITHIN TWENTY FOUR (24) HOURS OF DELIVERY IS UNACCEPTABLE.
- SOD PIECES SMALLER THAN EIGHT INCHES (8") SQUARE ARE ACCEPTABLE ONLY WHEN SITE CONDITIONS MANDATE.
- SOD SHALL BE A MINIMUM OF 3/4" THICK, FREE OF WEEDS AND PESTS AND CUT NO MORE THAN 24 HOURS PRIOR TO PLANTING.
- TEST SOIL FOR ALL AREAS TO RECEIVE SOD AS SPECIFIED IN THE PLANTING NOTES ABOVE

MULCH:

- MULCH SHALL CONSIST OF PARTIALLY DECOMPOSED HARDWOOD OR APPROVED SUBSTITUTE AND SHALL BE OF SUFFICIENT CHARACTER AS NOT TO BE DISPLACED BY WIND OR WATER RUNOFF.

TREE DIAMETER	DUCKBILL ROOT BALL KIT
Up to 2"	MODEL 40 RBK KIT
Up to 3"	MODEL 60 RBK KIT
Up to 6"	MODEL 80 RBK KIT

DUCKBILL ROOT BALL KITS AVAILABLE THROUGH FORESIGHT PRODUCTS LLC (800) 325 5960, WWW.EARTHANCHOR.COM

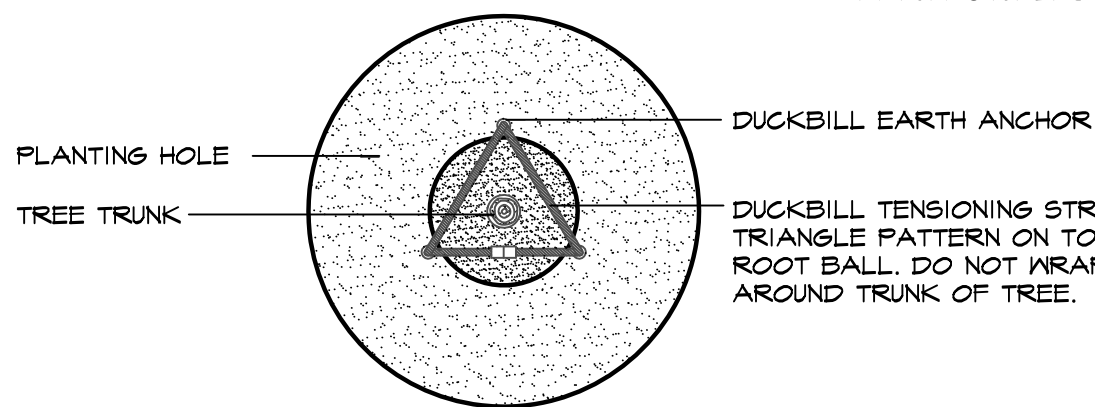
STAKING TYPICAL ON TREES 6" IN HEIGHT OR GREATER. ALL OTHER TREES TO BE STAKED AT LANDSCAPE ARCHITECTS DISCRETION.

SET TREE 2" ABOVE ORIGINAL GRADE
REMOVE BURLAP FROM TOP 1/3 OF ROOT BALL

3" MULCH LAYER

SOIL SAUCER: USE QUALITY TOPSOIL (6" MIN) INCORPORATE COMMERCIALLY PREPARED MYCORRHIZA SPORES IN SOIL AROUND ROOT BALL AT RATES AS SPECIFIED BY MANUFACTURER

PLANTING HOLE TO BE A MIN OF TWICE THE ROOT BALL SIZE
COMPACTED SUBSOIL TO FORM PEDESTAL TO PREVENT SETTLING



TREE PLANTING DETAIL
DUCKBILL BELOW GRADE TREE STAKING
NOT TO SCALE

CONTRACTOR (INSTALLER) SHALL ENSURE PERCOLATION OF ALL PLANTING PITS PRIOR TO INSTALLATION.

3" MULCH LAYER

SOIL SAUCER: USE QUALITY TOPSOIL (6" MIN) INCORPORATE COMMERCIALLY PREPARED MYCORRHIZA SPORES IN SOIL AROUND ROOT BALL AT RATES AS SPECIFIED BY MANUFACTURER

PLANTING HOLE TO BE A MIN OF TWICE THE ROOT BALL SIZE

COMPACTED SUBSOIL TO FORM PEDESTAL TO PREVENT SETTLING

PIT PLANTED SHRUB PLANTING DETAIL
NOT TO SCALE

CONTRACTOR (INSTALLER) SHALL ENSURE PERCOLATION OF ALL PLANTING AREAS PRIOR TO INSTALLATION.

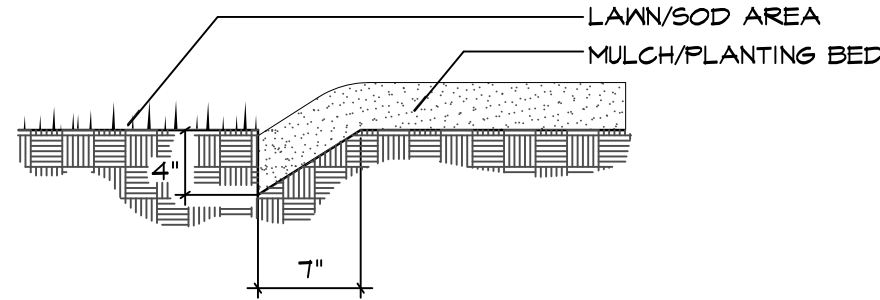
3" MULCH LAYER

INCORPORATE COMMERCIALLY PREPARED MYCORRHIZA SPORES IN SOIL AROUND ROOT BALL AT RATES AS SPECIFIED BY MANUFACTURER

COMPACTED SUBSOIL TO FORM PEDESTAL TO PREVENT SETTLING

WOODY SHRUB MASS PLANTING DETAIL
NOT TO SCALE

CONTINUOUS MULCH EDGE TYPICAL BETWEEN PLANTING BEDS AND LAWN/SOD AREAS.



CONTINUOUS MULCH BED EDGE
NOT TO SCALE

CONTRACTOR (INSTALLER) SHALL ENSURE PERCOLATION OF ALL PLANTING PITS PRIOR TO INSTALLATION.

DO NOT CUT CENTRAL LEADER

TREES OF THE SAME SPECIES TO BE MATCHED IN SIZE AND HABIT UNLESS OTHERWISE NOTED

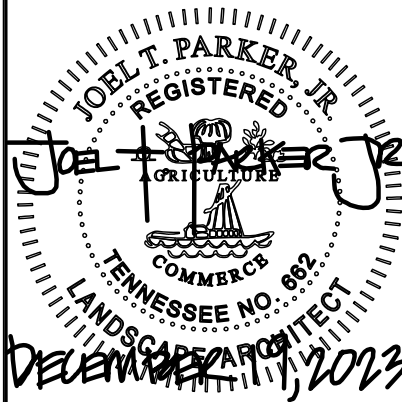
PRUNE UNDER DIRECTION OF LANDSCAPE ARCHITECT

DUCKBILL TENSIONING STRAPS IN TRIANGLE PATTERN ON TOP OF ROOT BALL WITH EASY HAND RATCHET TENSIONER. DO NOT WRAP STRAPS AROUND TRUNK OF TREE.

AMEND EXISTING SOIL WITH A COMPOSTED ORGANIC MATTER TO BRING THE ORGANIC CONTENT UP TO A 5% DRY WEIGHT

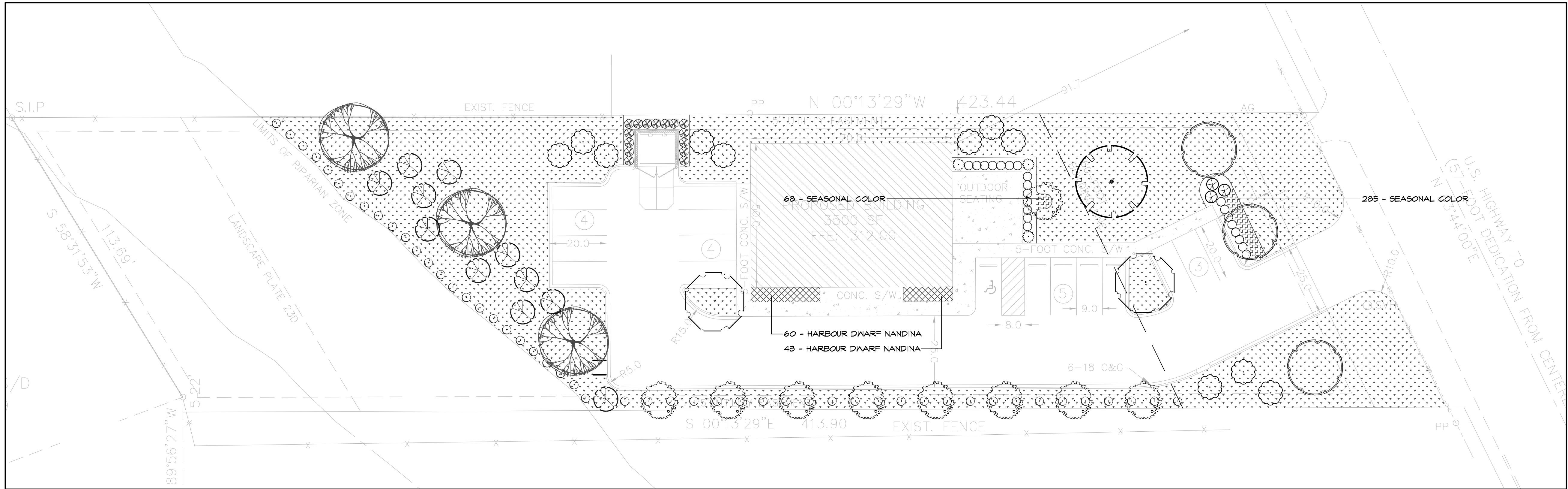
ANCHOR CABLE ATTACHED TO TENSIONING STRAPS WITH D RINGS

DUCKBILL EARTH ANCHOR, TYPICAL OF 3. INSTALL ANCHORS PER MANUFACTURERS RECOMMENDATIONS.



LOT 1, SHAMALI SUBDIVISION
BARTLETT, TENNESSEE

Attachment: DRC PLANS (8815 - Commercial Subdivision Contract for Shimal Subdivision)



PLANT MATERIAL LEGEND

- ALLEE ELM
- WHITE OAK
- CHERRYBARK OAK
- AUTUMN GOLD GINKGO
- AUSTRALIS BAY MAGNOLIA
- LITTLE GEM MAGNOLIA
- BRODIE JUNIPER
- GREEN MOUNTAIN BOXWOOD
- WHITE LOROPETALUM
- COMPACTA HOLLY
- WILLOWLEAF HOLLY
- EMERALD HEIGHTS DISTYLIUM
- HARBOUR DWARF NANDINA @ 18" O/C
- SEASONAL COLOR
- HYBRID BERMUDA SOD

PROPOSED PLANT MATERIAL SCHEDULE

CAL, HEIGHT, SPREAD AND CONTAINER SIZES SHOWN ARE MINIMUMS. ANY PLANT MUST MEET OR EXCEED EACH SPECIFIED SIZE

QTY	COMMON NAME	SCIENTIFIC NAME	CAL	HEIGHT	SPREAD	CONT	REMARKS	DENSITY UNITS (DU) QTY X CAL X VALUE = DU
2	ALLEE ELM	ULMUS PARVIFOLIA 'ALLEE'	2.5"	10'	4'	B4B	FULL HEADS, MATCHED	2 X 2.5 X 1 = 5
1	WHITE OAK	QUERCUS ALBA	2.5"	10'	4'	B4B	FULL HEADS, MATCHED	1 X 2.5 X 1 = 2.5
3	CHERRYBARK OAK	QUERCUS FAGODA	2.5"	10'	4'	B4B	FULL HEADS, MATCHED	NO DENSITY UNITS - ALL FOR REAR PLATE
3	AUTUMN GOLD GINKGO	GINKGO BILOBA 'AUTUMN GOLD'	2.5"	10'	4'	B4B	FULL HEADS, MATCHED	NO DENSITY UNITS - ALL FOR REAR PLATE
4	AUSTRALIS BAY MAGNOLIA	MAGNOLIA VIRGINIANA 'AUSTRALIS'	1.5" PER	8'	3'	B4B	FULL HEADS, MATCHED	4 X 1.5 X .75 = 10.13 DU
11	LITTLE GEM MAGNOLIA	MAGNOLIA GRANDIFLORA 'LITTLE GEM'	1.5"	8'	3'	--	FULL TO GROUND, MATCHED	NO DENSITY UNITS - ALL FOR REAR PLATE
11	BRODIE JUNIPER	JUNIPERUS VIRGINIANA 'BRODIE'	1.5"	8'	3'	--	FULL TO GROUND, MATCHED	11 X 1.5 X .75 = 12.38 DU
3	GREEN MOUNTAIN BOXWOOD	BUXUS 'GREEN MOUNTAIN'	--	24"	18"	--	FULL, MATCHED	NOT APPLICABLE
3	WHITE LOROPETALUM	LOROPETALUM 'SHANS WHITE'	--	16"	16"	3 GAL	FULL, MATCHED	NOT APPLICABLE
22	COMPACTA HOLLY	ILEX CORNATA 'COMPACTA'	--	16"	16"	3 GAL	FULL, MATCHED	NOT APPLICABLE
50	WILLOWLEAF HOLLY	ILEX WILLOWLEAF'	--	16"	16"	3 GAL	FULL, MATCHED	NOT APPLICABLE
15	EMERALD HEIGHTS DISTYLIUM	DISTYLIUM EMERALD HEIGHTS'	--	16"	16"	3 GAL	FULL, MATCHED	NOT APPLICABLE
103	HARBOUR DWARF NANDINA	NANDINA DOMESTICA 'HARBOUR DWARF'	--	10"	10"	QUART	FULL, MATCHED, 18" O/C	NOT APPLICABLE
353	SEASONAL COLOR	AS AVAILABLE	--	--	--	CELLS	8" O/C	1% OF THE GREEN/OPEN SPACE REQUIRED

SOD: SOD ALL AREAS AS INDICATED IN PLANS WITH HYBRID BERMUDA SOD. 13,000 SQ YARDS APPROXIMATE TOTAL

IRRIGATION: ALL NEWLY PLANTED AND SODDED AREAS TO BE IRRIGATED. A SITE SPECIFIC IRRIGATION PLANS SET WILL BE PROVIDED FOLLOWING CITY APPROVAL OF THE PLANTING

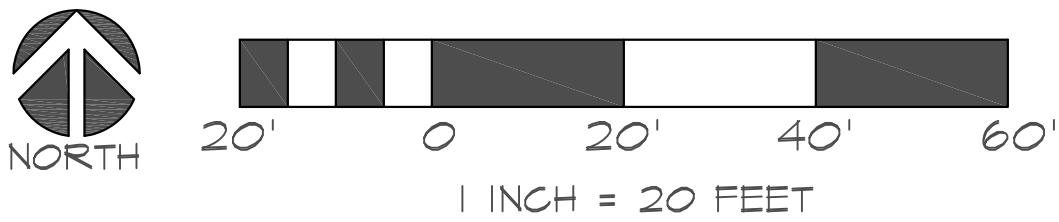
CITY OF BARTLETT LANDSCAPE REQUIREMENT NOTES

CITY OF BARTLETT PROPOSED DENSITY UNIT (DU) CALCULATIONS

TREE DENSITY UNITS REQUIRED: 0.98 ACRES X 20 UNITS PER ACRE = 19.6 DENSITY UNITS REQUIRED
PROPOSED DENSITY UNITS (DU) = 30.01

CITY OF BARTLETT LANDSCAPE REQUIREMENT SUMMARY

19.6 DENSITY UNITS (DU) ARE REQUIRED AND 30.01 ARE PROVIDED
40 TOTAL TREES PROPOSED. 18 DECIDUOUS AND 22 EVERGREEN, 45% DECIDUOUS AND 55% EVERGREEN
135 SQUARE FEET OF SEASONAL COLOR PROVIDED
3 OF THE CITIES OFFICIAL TREE, CHERRYBARK OAK ARE PROPOSED



PLANTING PLAN
DESIGN REVIEW COMMISSION
FOR REVIEW AND COMMENT ONLY -
NOT FOR CONSTRUCTION

4A NOTES
N.T.S.

DESIGN GROUP, LLC.

1255 Lynnfield Road, Suite 226
Memphis, Tennessee 38139
Telephone: 901.603-8765

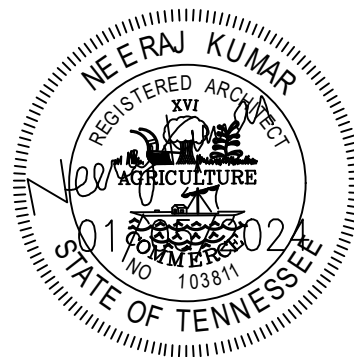
E-Mail: nkumar@designgroupmemphis.com

OWNER NAME AND ADDRESS

MEAT SHOP

7771 US
HIGHWAY 70
BARTLETT, TN

SEAL



JAN 05, 2024

CONSULTANTS NAME:

DRC REVIEW SET

NO.	DATE	ISSUE \ REVISION
01	12/07/2023	PRELIMINARY DRAWINGS
02	12/18/2023	DRC REVIEW
03	01/05/2024	DRC RESPONSE

DRAWING NAME

ELEVATIONS

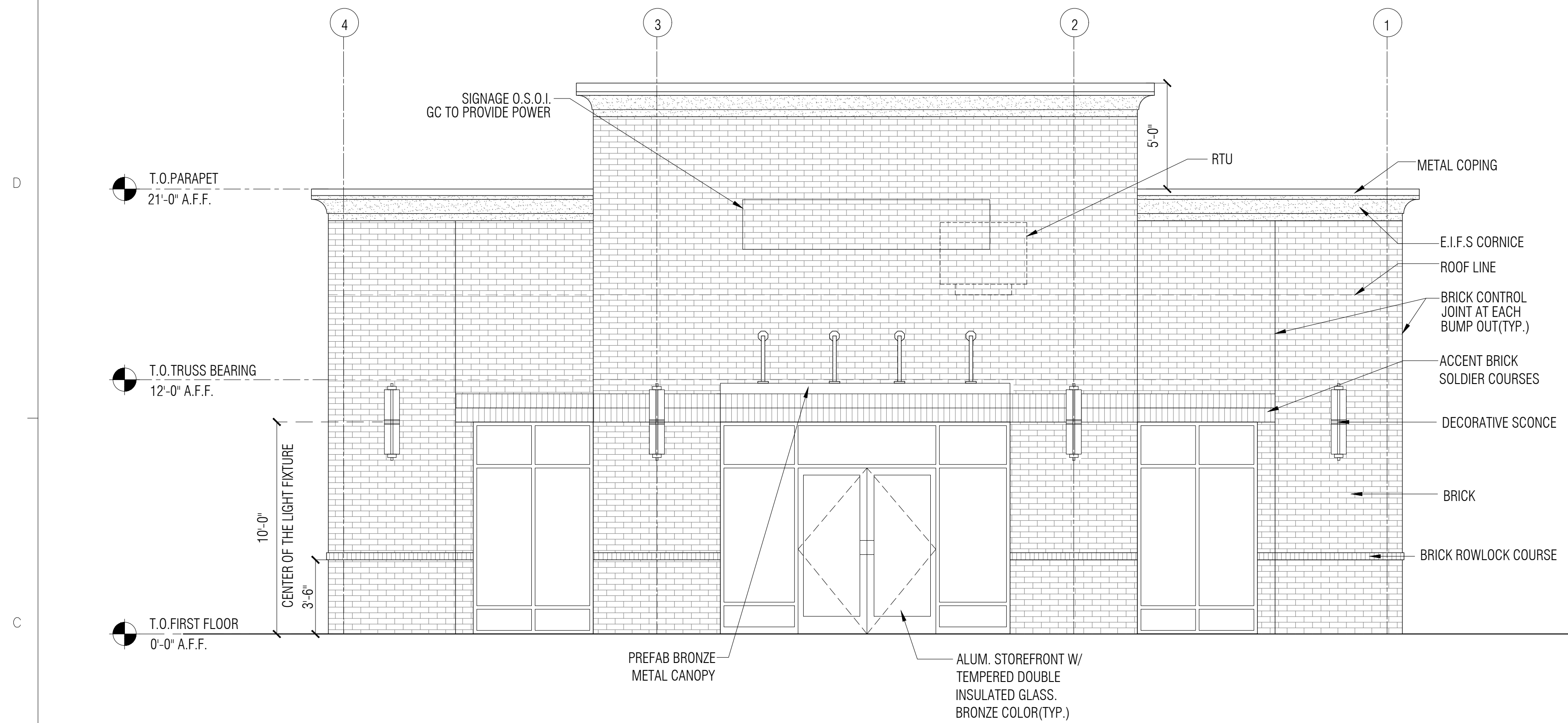
DRAWN BY : MAYURI

CHECKED BY :

APPROVED BY :

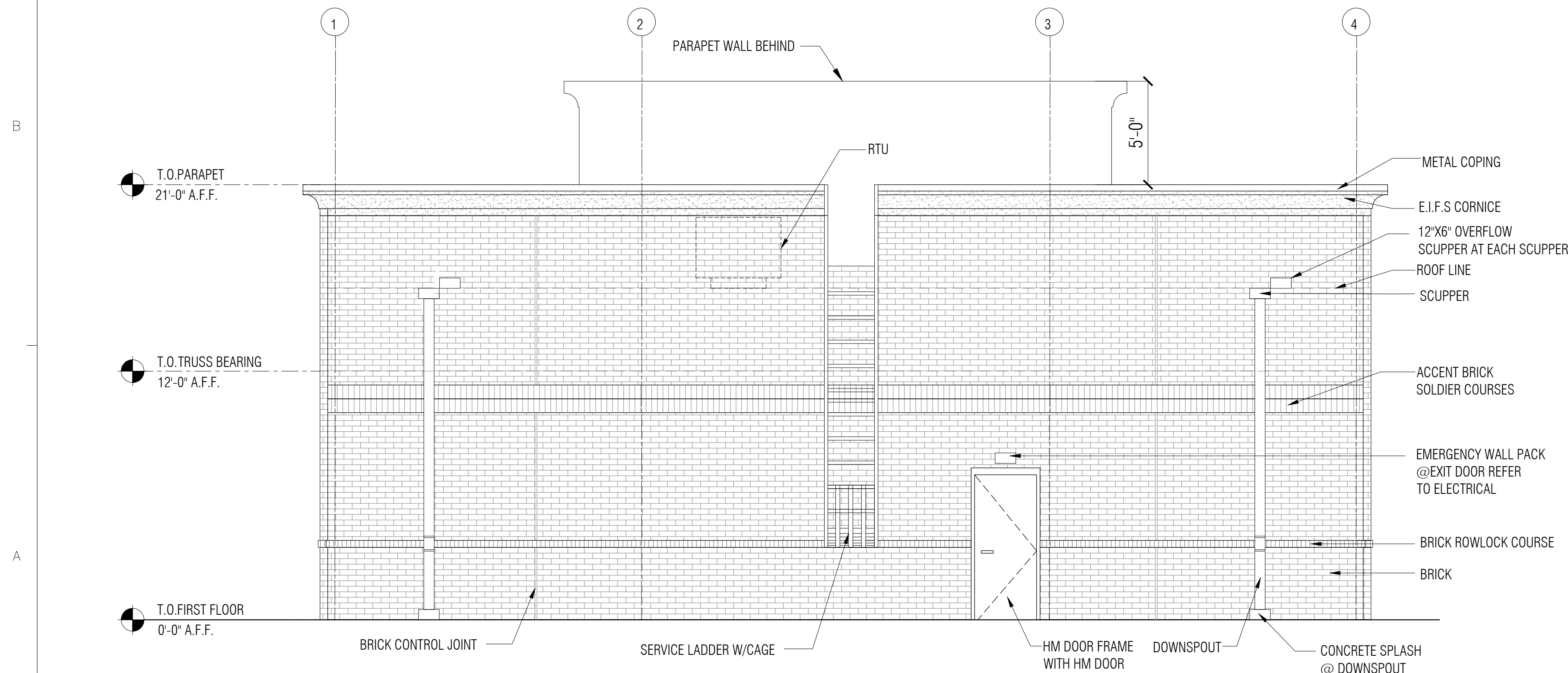
DRAWING NUMBER:

A300



1C NORTH ELEVATION

SCALE: 1/4" = 1'-0"



1A SOUTH ELEVATION

SCALE: 1/4" = 1'-0"

DESIGN GROUP, LLC.

1255 Lynnfield Road, Suite 226
Memphis, Tennessee 38139
Telephone: 901.603-8765

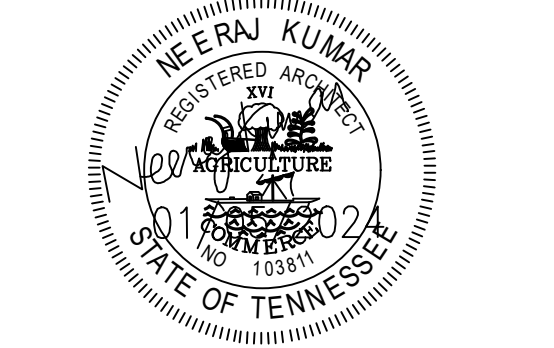
E-Mail: nkumar@designgroupmemphis.com

OWNER NAME AND ADDRESS

MEAT SHOP

7771 US
HIGHWAY 70
BARTLETT, TN

SEAL



JAN 05, 2024

CONSULTANTS NAME:

Blank lines for consultant name and other notes.

DRC REVIEW SET

NO.	DATE	ISSUE \ REVISION
01	12/07/2023	PRELIMINARY DRAWINGS
02	12/18/2023	DRC REVIEW
03	01/05/2024	DRC RESPONSE

DRAWING NAME

ELEVATIONS

DRAWN BY : MAYURI

CHECKED BY :

APPROVED BY :

DRAWING NUMBER:

A300.1

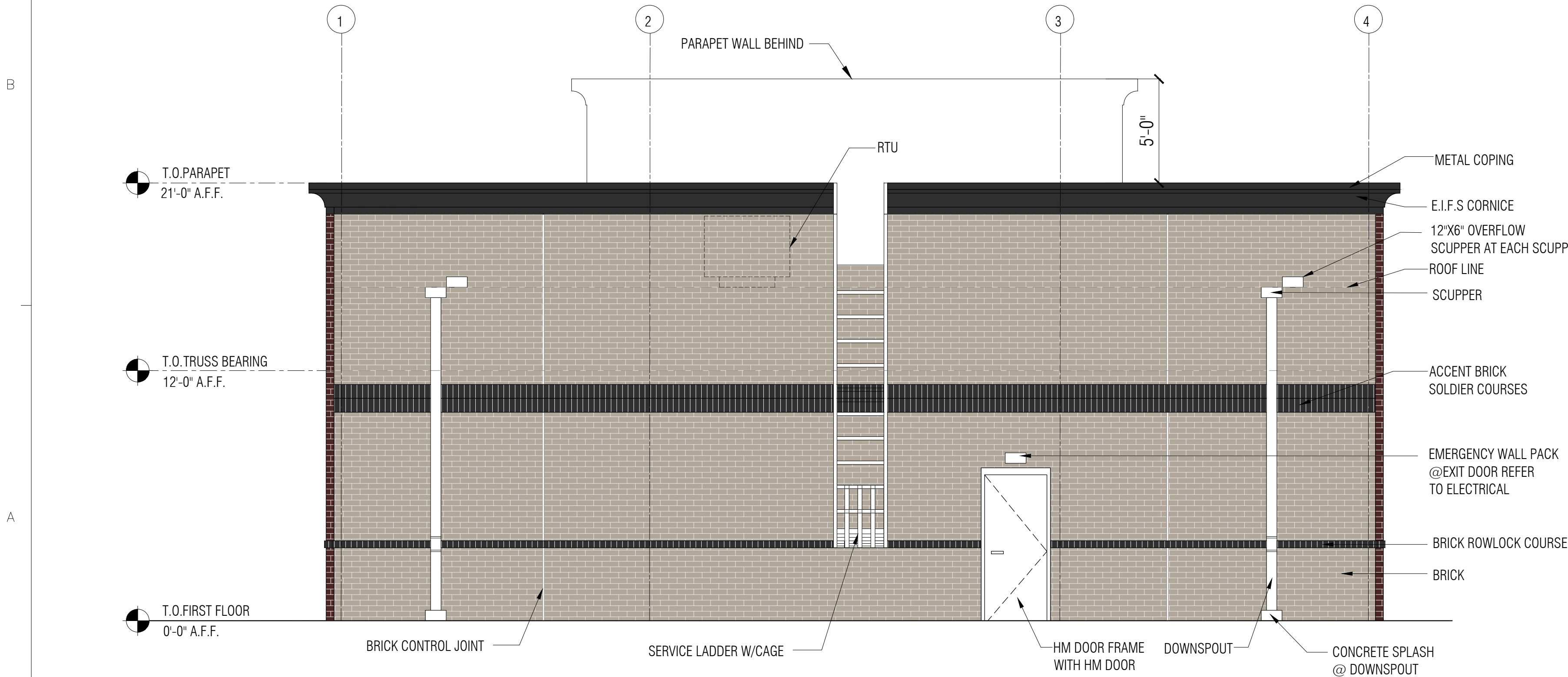


	BROOKSHIRE MODULAR SIZE, VELOUR TEXTURE DTP601 763319 ACME BRICK - DENTON PLANT		ALUMINIUM STOREFRONT SW 7076 CYBERSPACE
	ACADEMY GREY MARION CERAMICS ACME BRICK - THIN BRICK FROM ACME		METAL CANOPY SW 5458 INKWELL
	MANGANESE KING KLINKER ACME BRICK - THIN BRICK FROM ACME		DOWNSPOUT PIPE SW 6258 TRICORN BLACK
	SOILD DOOR & FRAME SW 7076 CYBERSPACE		EIFS CORNICE SW 6258 TRICORN BLACK
	COPING SW 6258 TRICORN BLACK		

4A MATERIAL BOARD
N.T.S.



1C NORTH ELEVATION
SCALE: 1/4" = 1'-0"



1A SOUTH ELEVATION
SCALE: 1/4" = 1'-0"

1255 Lynnfield Road, Suite 226
Memphis, Tennessee 38139
Telephone: 901.603-8765

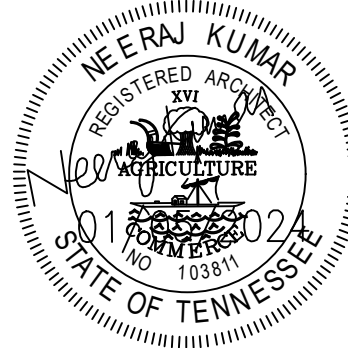
E-Mail: nkumar@designgroupmemphis.com

OWNER NAME AND ADDRESS

MEAT SHOP

7771 US
HIGHWAY 70
BARTLETT, TN

SEAL



JAN 05, 2024

CONSULTANTS NAME

DRC REVIEW SET

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01	12/07/2023	PRELIMINARY DRAWINGS
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03	01/05/2024	DRC RESPONSE

DRAWING NAME

ELEVATIONS

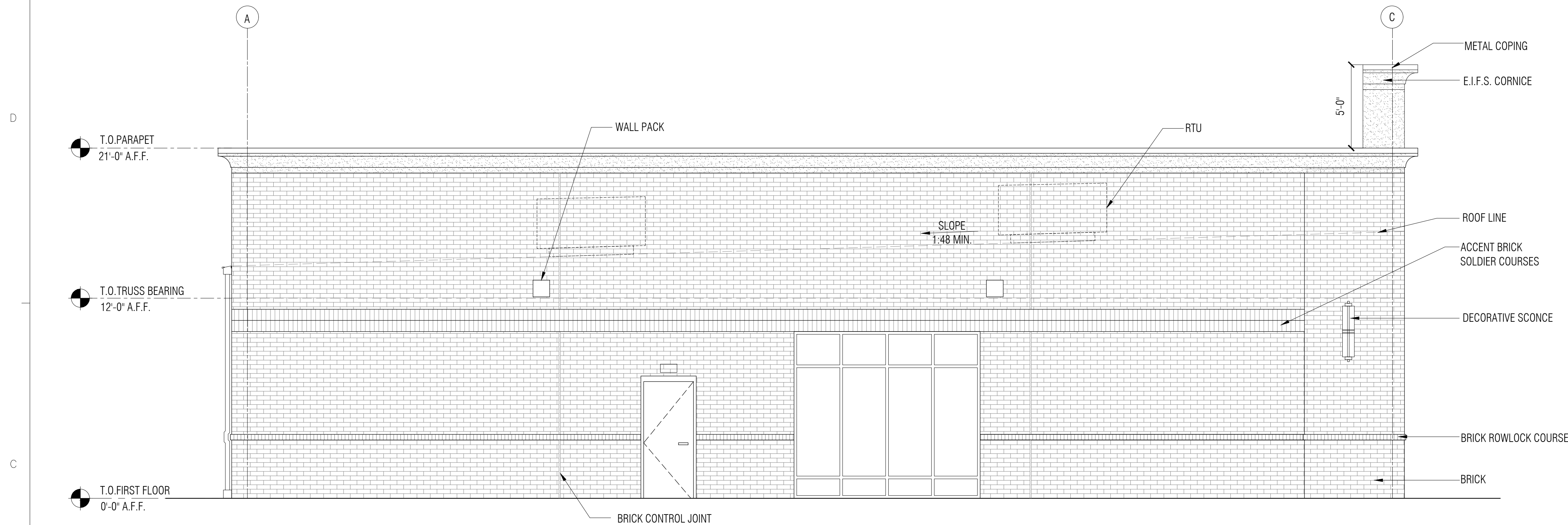
DRAWN BY : MAYUR

CHECKED BY :

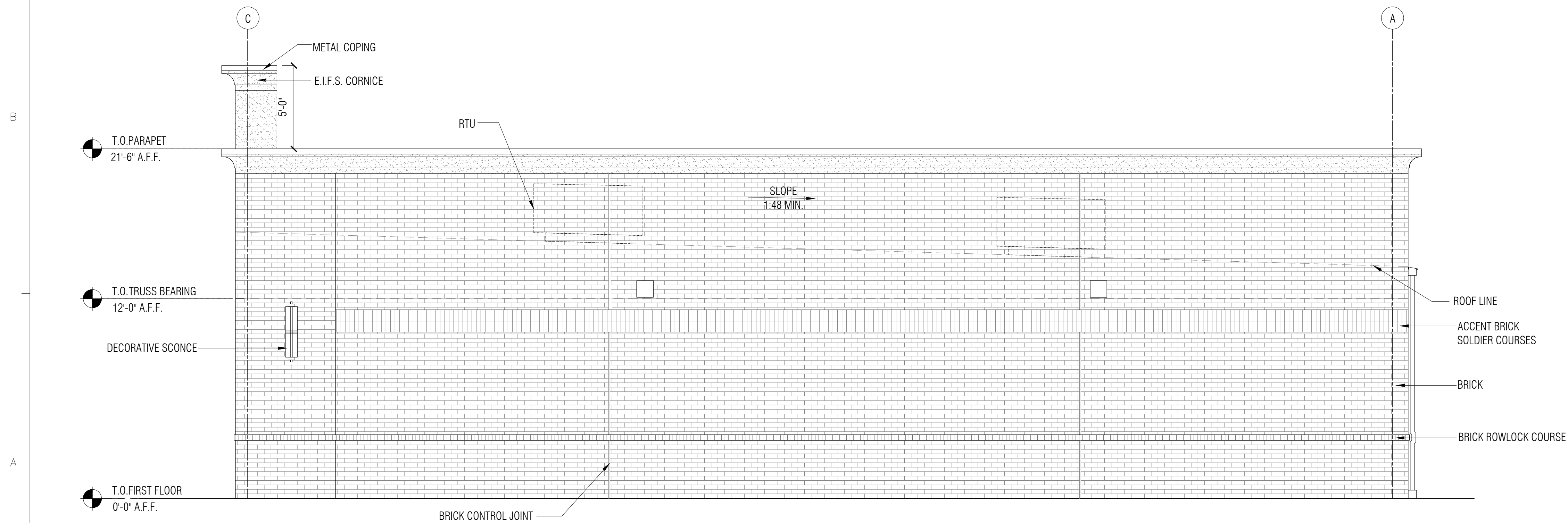
APPROVED BY

DRAWING NUMBER

A301



1C EAST ELEVATION
SCALE: 1/4" = 1'-0"



1A WEST ELEVATION
SCALE: 1/4" = 1'-0"

NEERAJ KUMAR

B. Arch., M. Arch., M.C.R.P., LEED AP (BD+C)
ARCHITECT (MS License No. 5279)

1255 Lynnfield Road, Suite 226
Memphis, Tennessee 38139
Telephone: 901.603-8765
E-Mail: designgroup50@yahoo.com

OWNER NAME AND ADDRESS

MEAT SHOP

AT

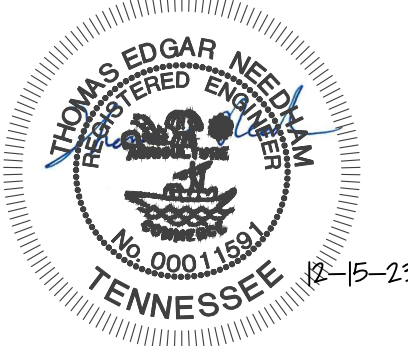
7771 US
HIGHWAY 70
BARTLETT TN

BSG

Building Systems Group
Engineers Planners Consultants

Mechanical Plumbing Electrical Fire Protection Engineering
Phone: (901) 219-0339 Email: bsengr@BSGeng.com

SEAL



CONSULTANTS NAME:

NO.	DATE	ISSUE \ REVISION
01	3-17-23	

DRAWING NAME

SITE PHOTOMETRIC
PLAN

DRAWN BY:

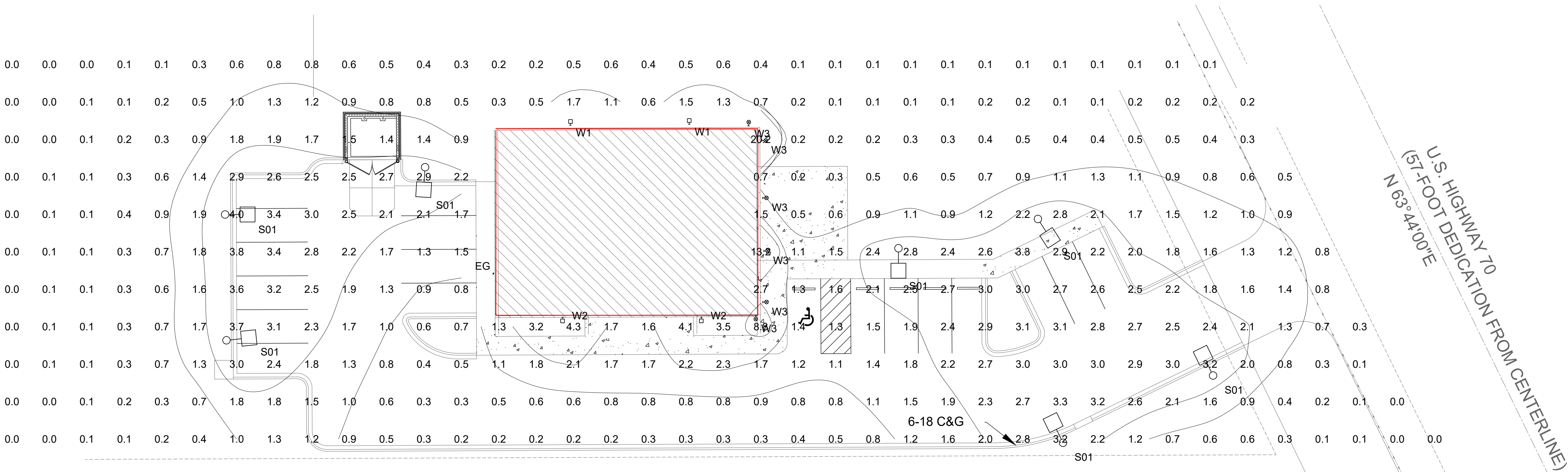
CHECKED BY:

APPROVED BY:

DRAWING NUMBER:

E101

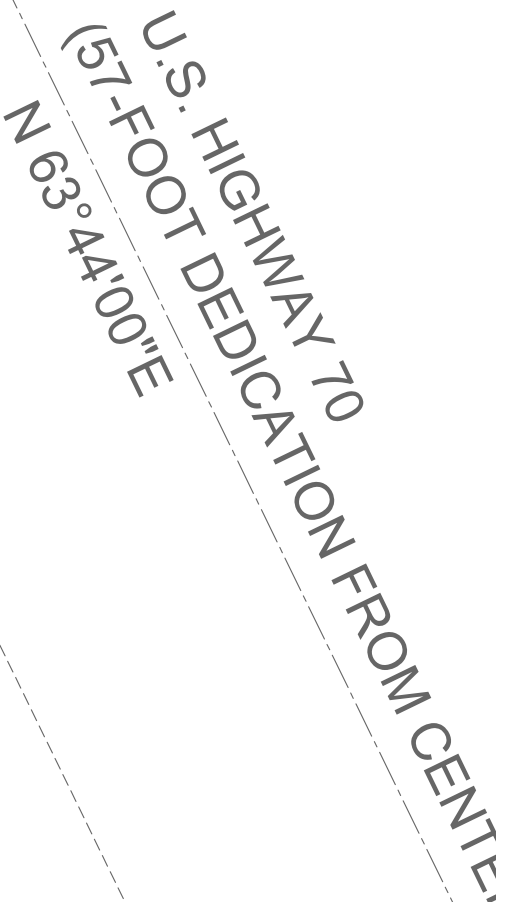
LUMINAIRE SCHEDULE								
CALLOUT	SYMBOL	DESCRIPTION	MODEL	MODEL 1	INPUT WATTS	VOLTS	NOTE 1	QUANTITY
EG		OUTDOOR EMERGENCY LIGHT	DUAL-LITE, PGN Series	DUAL-LITE, PGN Series	17.7	120V 1P 2W	CONNECT UNSWITCHED HOT FROM CIRCUIT	1
S01		RSX Area Fixture Size 1 P1 Lumen Package 4000K CCT Type R3 Distribution	Lithonia Lighting, RSX1 LED P1 40K R3 PROVID 16" SQUARE STEEL POLE, FINISH TO MATCH FIXTURE	Lithonia Lighting, RSX1 LED P1 40K R3	51.34	208V 2P 2W		7
W1		WPX1 LED wallpack 1500lm 4000K color temperature 120-277 Volts	Lithonia Lighting, WPX1 LED P1 40K Mvolt GLASS BLOCK	Lithonia Lighting, WPX1 LED P1 40K Mvolt	11.47	120V 1P 2W	COORDINATE HEIGHT WITH ARCHITCET	2
W2		WPX1 LED wallpack 3000lm 4000K color temperature 120-277 Volts	Lithonia Lighting, WPX1 LED P2 40K Mvolt GLASS BLOCK	Lithonia Lighting, WPX1 LED P2 40K Mvolt	24.42	208V 2P 2W		2
W3		OUTDOOR LED WALL CYLINDER UP & DOWN LIGHT	Lithonia Lighting, OLLWU LED P1 40K 120 DDB	Lithonia Lighting, OLLWU LED P1 40K 120 DDB	13.8	120V 1P 2W	LED DRIVER, Accudrive RPS4-14V090	6



GENERAL PHOTOMETRIC SCHEDULE	
AVERAGE FOOT-CANDLES	1.26
MAXIMUM FOOT-CANDLES	20.2
MINIMUM FOOT-CANDLES	0.0
MINIMUM TO MAXIMUM FC RATIO	0.00
MAXIMUM TO MINIMUM FC RATIO	1289.51
AVERAGE TO MINIMUM FC RATIO	80.77

1 SITE PHOTOMETRIC PLAN
1/16"=1'-0"

Packet Pg. 52



GENERAL PHOTOMETRIC SCHEDULE	
AVERAGE FOOT-CANDLES	2.29
MAXIMUM FOOT-CANDLES	15.2
MINIMUM FOOT-CANDLES	0.4
MINIMUM TO MAXIMUM FC RATIO	0.02
MAXIMUM TO MINIMUM FC RATIO	40.12
AVERAGE TO MINIMUM FC RATIO	6.04

NEERAJ KUMAR

B. Arch., M. Arch., M.C.R.P., LEED AP (BD+C)
ARCHITECT (MS License No. 5279)

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Telephone: 901.603-8765
E-Mail: designgroup50@yahoo.com

OWNER NAME AND ADDRESS

MEAT SHOP

AT

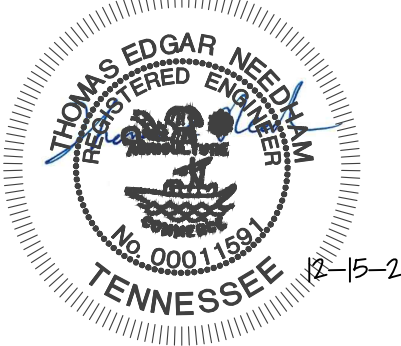
7771 US
HIGHWAY 70
BARTLETT TN



Building Systems Group
Engineers Planners Consultants

Mechanical Plumbing Electrical Fire Protection Engineering
Phone: (901) 219-0339 Email: bsengr@bsengr.com

SEAL



CONSULTANTS NAME:

NO.	DATE	ISSUE \ REVISION
01	3-17-23	

DRAWING NAME

SITE PLAN-
ELECTRICAL

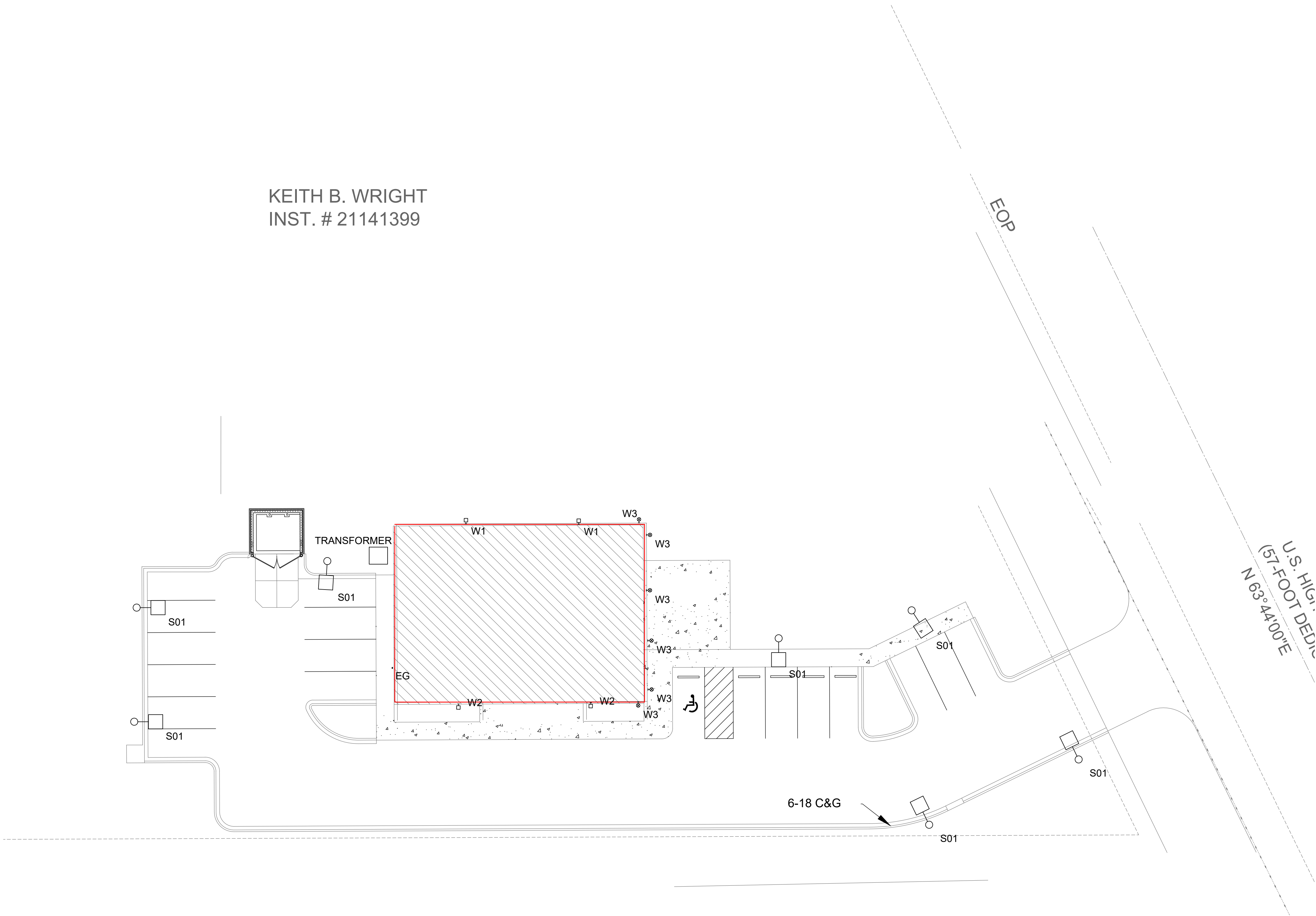
DRAWN BY:

CHECKED BY:

APPROVED BY:

DRAWING NUMBER:

E103



KEITH B. WRIGHT
INST. # 21141399

1 SITE PLAN - ELECTRICAL
1/16"=1'-0"

PG

Emergency LED Sconce



FEATURES

- Emergency unit for indoor/outdoor architectural applications
- Sturdy, ADA compliant, vandal-resistant, die-cast aluminum construction
- Four long-life, 6350K, high-output LEDs configured in redundant pairs
- Wide area illumination pattern with no heads to aim
- Maintenance-free nickel-cadmium battery with fully automatic charger
- Temperature range: 0°C to 50°C (32°F to 122°F), w/heater: -30°C to 50°C (-22°F to 122°F)
- UL 924 Net location listed
- U.S. Patent No. D627,916.

ORDERING INFORMATION

PG

MODEL

B

FINISH

—

HTR

Battery Heater

Options

Add suffix to model

W White

P Dark Bronze

P Platinum Silver

B Black

ELECTRONICS

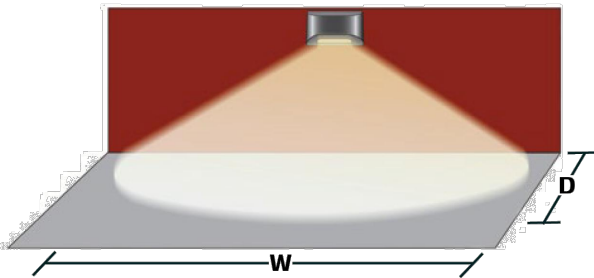
- 120/277 60 Hz VAC operation, test switch and LED AC-On indicator light
- Spectrum™ self-test/self-diagnostic circuitry
- Transformer isolation, surge, transient and low voltage disconnect protection
- Standard electrical box and conduit entry provisions
- Reverse polarity and AC lockout protection

SINGLE UNIT COVERAGE

Mounting Height: 86/50/10

Outdoor Reflectance: 0/30/10

Indoor Reflectance: 86/50/20



POWER CONSUMPTION

MODELS WITHOUT HEATER		MODELS WITH HEATER	
120VAC	2.78 Watts	120VAC	15.2 Watts
277VAC	2.88 Watts	277 VAC	15.7 Watts

Power factor, average: .60 (lagging)

Power factor, average: .97 (lagging)

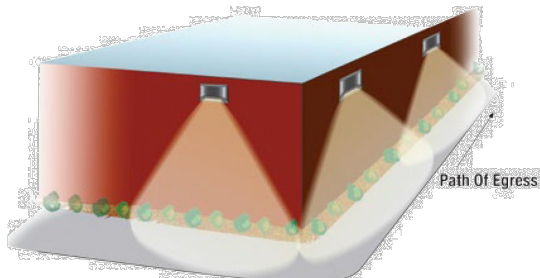
MULTIPLE UNIT SPACING

Mounting Height: 8' 0"

Illuminated Path Depth: 6' 0"

Outdoor Reflectance: 0/30/10

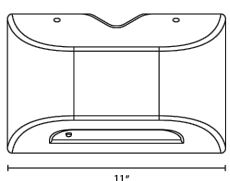
Indoor Reflectance: 86/50/20

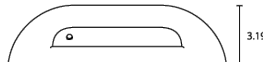


	INDOOR	OUTDOOR
1 FC Average (W x D)	33' X 10'	27' X 10'
1 FC Minimum (W x D)	10' X 10'	9' X 10'

	INDOOR	OUTDOOR
1 FC Average	44'	33'
1 FC Minimum	16'	15'







**Board of Mayor and Aldermen**

6400 Stage Road
Bartlett, TN 38134

SCHEDULED**AGENDA ITEM**

Meeting: 07/23/24 06:00 PM

Department: Finance

Category: Presentation

Prepared By: Dick Phebus

Department Head: Dick Phebus

Debt Report 2024 Apple Lease.

Debt Obligation Submission for 2024 Apple Financing Lease for School Computers.



Jason E. Mumpower
Comptroller

Report On Debt Obligation

Entity and Debt Information		
Entity Name		
City of Bartlett		
Entity Address		
6400 Stage Road Bartlett, Tennessee 38134-3710		
Debt Issue Name		
APPLE COMPUTER EQUIPMENT LEASE		
Debt Issue Face Amount		
\$4,659,890.00		
Face Amount Premium or Discount?		
N/A		
Tax Status		
Tax - Exempt		
Interest Type	True Interest Cost (TIC)	
True Interest Cost (TIC)	.72%	
Debt Obligation		
Financing Lease		
Moody's Rating	Standard & Poor's Rating	Fitch Rating
Unrated	Unrated	Unrated
Other Rating Agency Name	Other Rating Agency Rating	
N/A	N/A	
Security		
General Obligation		
Type of Sale Per Authorizing Document		
Negotiated Sale		
Dated Date	Issue/Closing Date	Final Maturity Date
6/27/2024	6/27/2024	7/15/2027

Attachment: Debt Report - City of Bartlett 2024 Apple Lease (3616 : Debt Report 2024 Apple Lease)

Debt Purpose

Purpose	Percentage	Description
Education	100%	5200 APPLE COMPUTERS AND IPADS
General Government	0%	N/A
Other	0%	N/A
Refunding	0%	N/A
Utilities	0%	N/A

Cost of Issuance and Professionals

Does your Debt Issue have costs or professionals?

No

Maturity Dates, Amounts, and Interest Rates

Year	Amount	Interest Rate
2024	\$1,174,474.17	.72%
2025	\$1,153,480.19	.72%
2026	\$1,161,785.24	.72%
2027	\$1,170,150.10	.72%

See final page for Submission Details and Signatures

Submission Details and Signatures

Is there an official statement or disclosure document, as applicable, that will be posted to EMMA: <https://emma.msrb.org/>?

Yes

Name and title of individual responsible for posting continuing disclosure information to EMMA

Dick Phebus, Finance Director

Signature - Chief Executive or Finance Officer of the Public Entity

Name

Dick Phebus

Title/Position

Finance Director

Email

dphebus@cityofbartlett.org

Alternate Email

N/A

Signature - Preparer (Submitter) of This Form

Name

Dick Phebus

Title/Position

Finance Director

Email

dphebus@cityofbartlett.org

Alternate Email

N/A

Relationship to Public Entity

Department Head

Organization

City of Bartlett

Verification of Form Accuracy

By checking the box below as the signing of this form, I attest the following:

1. I certify that to the best of my knowledge the information in this form is accurate.
2. The debt herein complies with the approved Debt Management Policy of the public entity.
3. If the form has been prepared by someone other than the CEO or CFO, the CEO or CFO has authorized the submission of this document.

☒ Verify Form Accuracy

Date to be Presented at Public Meeting

07/23/2024

Date to be emailed/mailed to members of the governing body

07/19/2024

Final Confirmation:

I hereby submit this report to the Division of Local Government Finance of the Tennessee Comptroller of the Treasury and understand my legal responsibility to: File this report with the members of the governing body no later than 45 days after the issuance or execution of the debt disclosed on this form. The Report is to be delivered to each member of the Governing Body and presented at a public meeting of the body. If there is not a scheduled public meeting of the governing body within forty-five (45) days, the report will be delivered by email or regular US mail to meet the 45-day requirement and also presented at the next scheduled meeting.

**Board of Mayor and Aldermen**

6400 Stage Road
Bartlett, TN 38134

SCHEDULED**AGENDA ITEM**

Meeting: 07/23/24 06:00 PM

Department: Finance

Category: Policy

Prepared By: Penny Medlock

Department Head: Dick Phebus

Approval of Revised Investment Policy.

CITY OF BARTLETT, TENNESSEE- INVESTMENT POLICY

1. INTRODUCTION

As the City seeks to maximize earnings on cash reserves it has deemed prudent the establishment of an investment policy to protect reserves and ensure compliance with Tennessee Code Annotated 6-56-106 which restricts the City's options for such investment.

2. SCOPE

This policy applies to the investment of cash reserves of Bartlett, Tennessee. Investments of retirement funds and post-employment benefits are covered by separate policies. Except for special funds that are otherwise specifically provided for, the City of Bartlett will consolidate the reserves of various funds to maximize investment earnings. Investment income will be allocated to the various funds based on their respective participation of capital in the overall portfolio in accordance with generally accepted accounting principles.

3. POLICY

It is the policy of the City of Bartlett to invest idle public funds in a manner that is in compliance with Tennessee Code Annotated (T.C.A.) 6-56-106 and meets the daily cash flow demands of the City.

4. OBJECTIVES

The city's investments shall be managed to accomplish the following hierarchy of objectives: a) Safety of Principal b) Maintenance of Liquidity and c) Achieve a Market Return.

A) Safety of Principal

Safety of principal is the single most important objective of the investment program. Investments shall be undertaken in a manner that seeks to ensure the preservation of capital in the overall portfolio. The objective will be to mitigate the following risks:

i. Credit Risk

The City will minimize credit risk, which is the risk of loss due to the failure of the investment issuer or backer, by:

- Limiting the portfolio to the types of investments pursuant to TCA 6-56-106;
- Pre-qualifying and conducting ongoing due diligence of the financial institutions and advisers with which the City will do business.

ii. Interest Rate Risk

The City will minimize interest rate risk, which is the risk that the market value of investments in the portfolio will fall due to changes in market interest rates, by:

- Structuring the portfolio to meet the cash requirements of ongoing operations, thereby mitigating the need to liquidate investments at a loss prior to maturity;
- Investing operating funds primarily in shorter-term investments and limiting

the average maturity of the portfolio in accordance with this policy in accordance with T.C.A. 6-56-106.

iii. **Concentration Risk**

The City will minimize Concentration of Credit Risk, which is the risk of loss due to having a significant portion of resources invested in a single issuer, by diversifying the investment portfolio so that the impact of potential losses from any one type of security or issuer will be minimized. *Investments issued or explicitly guaranteed by the U.S. government or Tennessee Bank Collateral Pool, Tennessee Local Government Investment Pool (LGIP) and any other external investment pools authorized by that are authorized by the State are excluded from this requirement.*

iv. **Custodial Credit Risk**

The City will minimize Custodial Credit Risk for deposits, which is the risk that in the event of the failure of a depository financial institution the deposits or collateralized investments that are in the possession of an outside party would not be able to be recovered. See ***Collateralization*** below.

The City will minimize Custodial Credit Risk for investments, which is the risk that in the event of the failure of the counterparty to a transaction the value or collateralized investments that are in the possession of an outside party would not be able to be recovered. See ***Standards of Care*** below.

B) Maintenance of Liquidity

The City Portfolio shall be managed in such a manner that assures that funds are available as needed to meet those immediate and/or future operating requirements of the City, including but not limited to payroll, accounts payable, capital projects, debt service and any other payments.

C) Achieve a Market Return

The investment portfolio shall be designed with the objective of achieving a market return throughout budgetary and economic cycles, taking into account the investment risk constraints and liquidity needs. Return on investment is of secondary importance compared to the safety and liquidity objectives described above. The core investments are limited by state law to relatively low risk securities in anticipation of earning a market return relative to the risk being assumed.

5. STANDARDS OF CARE

A) Prudence

The standard of prudence to be used by investment officials shall be the "prudent person" standard and shall be applied in the context of managing an overall portfolio. Investment officers acting in accordance with this Investment Policy and exercising due diligence shall be relieved of personal responsibility for an individual security's credit risk or market price changes, provided

deviations from expectations are reported in a timely fashion and the liquidity and the sale of securities are carried out in accordance with the terms of this policy.

The "prudent person" standard states that, "Investments shall be made with judgment and care, under circumstances then prevailing, which persons of prudence, discretion and intelligence exercise in the management of their own affairs, not for speculation, but for investment, considering the probable safety of their capital as well as the probable income to be derived."

The City may employ an outside investment manager(s) to assist in managing some or all of the City Portfolio. While the standard of prudence to be used by the "Investment Officer" (as defined in section C below) who are City officers or employees is the "Prudent Person" standard, any person or firm hired or retained to invest, monitor, or advise concerning these assets shall be held to the higher standard of "Prudent Expert". The standard shall be that in investing and reinvesting moneys and in acquiring, retaining, managing, and disposing of investments of these funds, the Prudent Expert shall exercise: the judgment, care, skill, prudence, and diligence under the circumstances then prevailing, which persons of prudence, discretion, and intelligence, acting in a like capacity and familiar with such matters would use in the conduct of an enterprise of like character and with like aims by diversifying the investments of the funds, so as to minimize the risk, considering the probable income as well as the probable safety of their capital.

B) Ethics and Conflicts of Interest

City employees involved in the investment process for the City shall refrain from personal business activity that could conflict with the proper execution and management of the investment program, or that could impair their ability to make impartial decisions. City employees and investment officials shall disclose any material interests in financial institutions with which they conduct business. Further, said employees and officers shall disclose any personal finance or investment positions that could be related to the performance of the City Portfolio.

C) Delegation of Authority

Authority to manage investments in accordance with this policy is granted to the CAO, Finance Director, Assistant Finance Director, or those delegated such responsibility by the Mayor, herein referred to as "investment officers." Investment officers will act in accordance with established internal controls and procedures for operation of the investment program consistent with this policy.

6. AUTHORIZED FINANCIAL INSTITUTIONS

All financial institutions who desire to become qualified for investment transactions must supply the following as appropriate:

- A. Audited financial statements demonstrating compliance with state and federal capital adequacy guidelines;

- B. Proof of membership in the Tennessee Bank Collateral Pool or as alternative a pledge of 105% of value of investment less the amount insured by the Federal Deposit Insurance Corporation;
- C. Certification of having read and understood and agreeing to comply with the City's Investment Policy.

Nothing in Section No. 6 precludes the City from using a qualified financial advisory/investment firm or investment services, the standard of care to be exercised by such a professional service provider outlined in Section 5(A).

7. AUTHORIZED AND SUITABLE INVESTMENTS

The City of Bartlett's Investment Officer(s), in order to provide a safe temporary medium for investment of idle funds, shall have the authority to purchase and invest prudently as authorized by TCA 6-56-106 or as it may be amended.

8. COLLATERALIZATION

In accordance with State law T.C.A. 9-4-105 and the GFOA Recommended Practices on the Collateralization of Public Deposits, full collateralization will be required on all demand deposit accounts, including checking accounts and non-negotiable certificates of deposit, except when the institution belongs to the Tennessee Bank Collateral Pool.

9. REPORTING

Investment earnings and performance shall be reported monthly to the Investment Officers and Administration as a component of the monthly financial report as interest earnings.

10. PORTFOLIO DIVERSIFICATION

It is the policy of the City of Bartlett to reduce overall risks while attaining average market rates of return by diversifying its investments.

The investments shall be diversified by:

- A. Limiting investments to avoid over concentration in eligible securities from a specific issuer or business sector (excluding U.S. Treasury securities). *Investments issued or explicitly guaranteed by the U.S. government or Tennessee Bank Collateral Pool, Tennessee Local Government Investment Pool (LGIP) and any other external investment pools authorized by that are authorized by the State are excluded from this requirement.*
- B. Investing a portion of the portfolio in readily available funds to ensure that appropriate liquidity is maintained in order to meet ongoing obligations.



Board of Mayor and Aldermen

6400 Stage Road
Bartlett, TN 38134

SCHEDULED

RESOLUTION (ID # 3608)

Meeting: 07/23/24 06:00 PM

Department: Engineering

Category: Policy

Prepared By: Erin Campbell

Initiator: John Horne

Sponsors:

DOC ID: 3608

Resolution 27-24, a resolution to revise and update the Stormwater Management Plan and Program for the City of Bartlett, Tennessee.

WHEREAS, the State of Tennessee issued a new National Pollutant Discharge Elimination System (NPDES) from Small Municipal Separate Storm Sewer Systems (MS4s) general permit on August 1, 2022 with an effective date of September 1, 2022; and

WHEREAS, the City of Bartlett, a small MS4, applied for and received coverage under that permit on December 9, 2022 with an effective date of January 1, 2023; and

WHEREAS, the Small MS4 permit requires the City of Bartlett to develop and implement a stormwater management plan and program that implements the requirements of that same permit no later than September 1, 2024; and

WHEREAS, the Stormwater Management Plan and Program has been revised and updated, with participation from the public, as required by the Small MS4 permit, as well as City agencies tasked to implement the requirements of that permit; and

WHEREAS, a public comment period, required by the Small MS4 permit, was announced and comments received and considered for inclusion or not into this Stormwater Management Plan and Program; and

WHEREAS, it is in the best interest of the City of Bartlett, its citizens and the environment to adopt the revised and updated Stormwater Management Plan and Program,

NOW THEREFORE BE IT RESOLVED BY THE BOARD OF MAYOR AND ALDERMAN OF THE CITY OF BARTLETT, TENNESSEE that this revised and updated Stormwater Management Plan and Program attached is adopted with an effective date of September 1, 2024.

ADOPTED THIS 23rd day of July 2024.

Harold Brad King, Register to the
Board of Mayor and Aldermen

David Parsons, Mayor

Penny Medlock, City Clerk

City of Bartlett
Shelby County, Tennessee

Stormwater Management Plan



Prepared by:

City of Bartlett
Department of Engineering and Utilities
6382 Stage Road
Bartlett TN 38134-3739

John Horne, Director
David Cook, Stormwater Coordinator

September 1, 2024

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PLAN BACKGROUND

The City of Bartlett, like many areas in the United States, has and continues to experience impacts to its natural resources due to increased urbanization. These impacts are especially evident with its surface water resources. The City is an established community with infill and redevelopment. The City has an area of nearly 32 square miles and a population of nearly 57,000 residents, making the City of Bartlett the 14th largest city in the state. There is over 70 miles of waters designated as *waters of the state* within the jurisdictional boundaries of the City of Bartlett.

With this growth and revitalization comes an increased need to protect and enhance the natural water resources throughout the City. Urbanization affects these water resources by increasing the rate and volume of stormwater runoff. These increases, if uncontrolled, may lead to a degradation of the natural drainage system. The increased soil erosion and sedimentation from construction sites, along with more impervious surfaces, can combine to cause increased stormwater related problems commonly experienced as flooding, storm sewer back-up, and deteriorated water quality.

Purpose

The City of Bartlett recognizes the need for a more proactive and comprehensive approach to manage stormwater runoff. The purposes of this plan are:

1. To reduce the discharge of pollutants to the maximum extent practicable.
2. To protect water quality.
3. To satisfy the appropriate water quality requirements of the Federal Clean Water Act of 1972.
4. To implement the requirements of the Tennessee Department of Environment and Conservation National Pollution Discharge Elimination System Permit for Discharges from Small Municipal Separate Storm Sewer Systems (MS4).
5. To minimize the potential for flooding.

This Stormwater Management Plan (SWMP or the Plan) establishes the framework and goals that will direct stormwater management for the City of Bartlett. Ultimately, the Plan will provide the City of Bartlett with effective rules, regulations, and projects that will reduce the potential for stormwater damage to life, public health, safety, property, and the environment.

Authority

The City of Bartlett's SWMP is established as required by section four of the National Pollutant Discharge Elimination System (NPDES) General Permit for Small Municipal Separate Storm Sewer Systems (MS4). Assessment of civil penalties for ordinance violations is authorized pursuant to TCA 68-221-1106. Other documents become part of the SWMP by reference. The Director for the Department of Engineering and Utilities and, in the event of the Director's absence or a vacancy in the office of the Director, the Deputy Director, is responsible for the overall management of the SWMP. Day-to-day management of the SWMP is the responsibility of the City's Stormwater Coordinator. Other department directors shall be responsible for the implementation of policies and procedures contained in the SWMP within their departments.

SECTION 1 – PURPOSE, GOALS, AND POLICIES

GOALS and POLICIES

The City of Bartlett Stormwater Management Plan recognizes the need to reduce the potential for reoccurring flood and water quality impacts within the City. It also recognizes the need to address the likelihood of increasing flood risk and flood damage as the City continues to develop, and to minimize further environmental degradation associated with urbanization. The following goals address those needs:

- **Reduce the existing potential for stormwater damage to public health, safety, life, property, and the environment.**
- **Minimize future increase in stormwater damage within the City of Bartlett and in adjacent jurisdictions affected by City of Bartlett drainage.**
- **Protect and enhance the quality, quantity, and availability of surface water resources.**
- **Preserve and enhance existing aquatic and riparian environments and encourage restoration of degraded areas.**
- **Control sediment and erosion in and from drainage ways, developments, and construction sites.**
- **Establish comprehensive basin plans within each watershed that quantify, plan for, and manage stormwater flows within and among the jurisdictions in those watersheds.**
- **Promote equitable, acceptable, and legal measures for stormwater management.**

Policies developed to implement the SWMP must respond to the specific characteristics that have historically contributed to stormwater quantity and quality issues in the City of Bartlett. The following outlines the key physical and institutional characteristics affecting the City's stormwater management and presents the policies developed to address these characteristics. These policies will serve as the mechanisms for attaining the SWMP goals and are implemented through a combination of the City of Bartlett's stormwater ordinance, the City of Bartlett's subdivision ordinance and the City of Bartlett's Stormwater Management Program ([Appendix 1](#)).

Policies Addressing Physical Characteristics

Site Runoff Control Traditional site runoff control techniques involving grading and piping to transport stormwater from a site accomplish site drainage only at the expense of downstream drainage ways and property owners. Runoff control plans for retaining much of the excess water onsite can be developed, but only for locations where they would minimally interfere with developed land uses. Such plans usually consist of site grading and piping, but may include innovative onsite runoff control techniques including infiltration swales, pervious surfaces, French Drains, rain gardens, or green roofs. Whether land is developed for residential, commercial, or industrial use, site runoff control is necessary to prevent flood damage and reduce adverse water quality impacts in downstream areas.

- 1. The City of Bartlett Stormwater Management Plan requires appropriate and adequate provision for site runoff control consistent with watershed plans, the NPDES General Permit for Small MS4s and the Tennessee Construction General Permit wherever the land is developed for human activity.**

This policy reduces the potential for future onsite flood damage and minimizes the effect stormwater may have on human activities and the natural environment.

SECTION 1 – PURPOSE, GOALS, AND POLICIES

Storage Stream and river channels are generally adequate to convey runoff from smaller, frequent storms. Larger, less frequent storms require the floodplains for temporary storage and additional conveyance capacity. In developed areas, frequent storms require historic floodplain areas to accommodate increased runoff rates and to compensate for watershed infiltration and storage capacity lost with development. Runoff from larger storms accordingly extends beyond normal floodplain limits.

The carrying capacity of drainage ways can be improved and increased, however the financial and environmental cost of increasing channel conveyance capacity throughout the City is extremely high. Channel improvements significantly alter both aquatic and riparian environments and potentially increase stream erosion. Furthermore, efforts to increase conveyance capacity within the City would be unproductive if downstream capacity were not similarly increased. It is recognized that under some circumstances, increased conveyance is the only feasible stormwater management alternative, but feasible storage is always preferable to conveyance.

2. The City of Bartlett Stormwater Management Plan recognizes the inherent advantages of stormwater infiltration or storage and encourages the use of these techniques where appropriate in preference to stormwater conveyance.

This policy:

- Reduces the potential for downstream flood damage.
- Minimizes increases in stormwater runoff rates.
- Maintains the adequacy of existing conveyance by not increasing the flows to be conveyed.
- Promotes stormwater infiltration and evaporation as a means for reducing the volume of runoff.
- Maintains the environmental integrity of stream channels by avoiding the need for channel modifications.
- Reduces the potential impact of development on stream erosion rates by limiting peak flows.
- Reduces the potential impact of non-point sources of pollution on downstream waters.

Watershed Focus The natural drainage system of creeks and rivers developed a capacity for conveying stormwater that is balanced with these watersheds characteristics. Land development practices typically disrupt the natural balance by reducing or eliminating the naturally occurring storage, reducing the infiltration of stormwater into the ground, and generally increasing the velocity and quantity, while decreasing the quality of runoff. Receiving streams and rivers do not naturally have capacity for increased flows. Downstream flooding is an expected consequence of land development unless each site runoff control plan is developed with full consideration of downstream capacities and flooding potential.

3. The City of Bartlett Stormwater Management Plan requires design and evaluation of each site runoff control plan to be consistent with watershed capacities and the requirements contained in the NPDES General Permit for Small MS4s.

This policy reduces the potential of offsite and regional flood damage as well as the impact that runoff has on the quality of the waters in the receiving stream.

Floodplain Management The majority of flood damages occur to structures adjacent to streams in the floodplain or floodway. Construction and development activities in the floodplain frequently disrupt riparian environments. In the floodway, such activity often increases stream erosion,

SECTION 1 – PURPOSE, GOALS, AND POLICIES

destroys aquatic habitat, and restricts flood flows, thus increasing the depth of upstream flooding. Floodplain and floodway development decreases natural overbank storage, thereby increasing peak flows in downstream areas.

However, some uses of the floodplain are necessary and desirable for the human and natural environment. Essential urban utilities, such as major arterial roadways and sanitary trunk sewers, must necessarily traverse floodplains and floodways. In such instances, mitigating measures can be employed to offset impacts. Other uses such as public recreation facilities or natural areas may be neutral to floodplain conveyance and storage or, in the case of mitigating wetlands, may enhance storage. While it is desirable to restrict or control the type of development that occurs in the floodplain, it is neither desirable nor necessary to prohibit all types of development.

- 4. The City of Bartlett Stormwater Management Plan restricts future development in the floodplain to facilities that will not adversely affect flood damage potential or adversely impact riparian environments. Within the floodway, development will be prohibited unless it involves facilities that enhance flood protection and/or water quality.**

This policy reduces the potential for future flood damage and maintains the integrity of stream channels and preserve riparian environments.

Wetland Protection While wetlands are not a significant portion of the natural landscape in the City of Bartlett, the natural storage they provide can play an important role in determining the conveyance capacity of existing drainage ways. By filling or encroaching upon wetlands, storage volume is lost and downstream reaches flood in an effort to maintain the natural watershed balance. Wetlands promote infiltration, which reduces runoff volume and recharges groundwater supplies. They also retain the pollutants contained in runoff, protect and improve water quality, and provide habitat for numerous species.

- 5. The City of Bartlett Stormwater Management Plan requires preservation of wetlands to maintain natural flood control and environmental benefits.**

This policy protects the natural watershed storage capacity, maintains the integrity of existing drainage ways, and provides water quality and habitat protection.

Environmental Protection Certain environmental protection measures complement good stormwater management. For example, effective erosion prevention and sediment control is a significant non-point source pollution control and protection measure for aquatic and riparian habitats. It is also an effective way of preventing excessive channel obstruction due to sedimentation. Maintaining natural stream channel cross-section alignment is important in promoting a healthy riparian environment. It is also important to maintain the natural stream length, storage capacity, and conveyance characteristics of the channel.

- 6. The City of Bartlett Stormwater Management Plan incorporates water quality and habitat protection measures in all stormwater management activities within the City of Bartlett.**

This policy enhances our ability to protect the environmental integrity of the watershed and allows the City of Bartlett to meet NPDES Phase II requirements.

Programmed Maintenance Many existing municipal stormwater management facilities in the City of Bartlett function at their design standard or potential. Culverts and drains are periodically cleared of vegetation, debris, and/or sediment that can choke these structures, leading to

SECTION 1 – PURPOSE, GOALS, AND POLICIES

localized flooding or decreases in the quality of stormwater runoff. Detention and retention basins are routinely inspected to ensure they are not over burdened by silt and debris.

However, the status of privately owned facilities is unknown. If not properly maintained, these facilities can actually increase the potential for flooding and poor water quality. Furthermore, debris creates a risk for damaging sewer lines crossing streams, posing a significant environmental risk.

7. The City of Bartlett Stormwater Management Plan requires regular, planned maintenance of stormwater management facilities, whether publicly or privately owned.

This policy reduces the potential for flood damage and promotes or maintains the integrity of stream channels, providing water quality benefits.

Policies Addressing Institutional Characteristics

Source Control Onsite mismanagement of stormwater can exacerbate problems as the stormwater moves downstream. Problems are usually least severe and most readily controlled by structural means near the source of the runoff. This is also the case for stormwater quality concerns. If the stormwater and the pollutants it carries are controlled near their origin, then the area affected is reduced. Often source control of stormwater is more effective and less costly than downstream stormwater remediation.

8. The City of Bartlett Stormwater Management Plan encourages control of stormwater quantity and quality at the most site-specific level as possible, but only where long-term maintenance is fully provided.

This policy reduces the potential for flood damage and erosion from development, aids in the prevention of non-point source pollution, and minimizes or eliminates the potential of runoff pollution.

Enforcement Stormwater management policies and regulations can only be effective if they are implemented routinely and consistently. Since implementation must take place at many locations over long periods of time, enforcement of the regulation is difficult and often overlooked in favor of more immediate issues. Inconsistent enforcement of stormwater regulations limits their implementation and contributes substantially to the continued growth of the extent and severity of flood damages and environmental degradation.

9. The City of Bartlett Stormwater Management Plan requires strict compliance and enforcement of the stormwater management plan policies and their implementing regulations.

This policy minimizes opportunities to circumvent the SWMP and enhances our ability to achieve all SWMP goals.

Appropriate Technology The technology available to support stormwater management ranges from the simple to the complex. Simple technologies are more likely to be employed since they are widely used and easily applied. Simple technologies are often easier and less costly to maintain, but they can leave little flexibility for dealing with unusual or complex realities. Applying simple technologies can result in inappropriate and ineffective management if the problems are more complex than the solutions used. Conversely, sophisticated solutions can postpone action and increase the cost of stormwater management.

SECTION 1 – PURPOSE, GOALS, AND POLICIES

10. The City of Bartlett Stormwater Management Plan allows simple technologies wherever appropriate and realistic, but demands use of more sophisticated techniques where necessary to ensure the adequacy of stormwater controls.

This policy encourages the use of appropriate technology, thereby reducing the risk of inappropriate stormwater management activities. This in turn maximizes the effectiveness of the stormwater management activities undertaken to achieve SWMP goals.

Cost Effectiveness The cost of stormwater management projects must be justified in terms of the existing and potential flood damages or environmental harm avoided. Concentrating resources on cost-effective stormwater management activities allows implementation of more control within a limited budget. Cost-effectiveness may be judged only by definitions consistent with all stormwater management goals, and hence must include life cycle costs, environmental costs, benefits, and both local and regional effects.

11. The City of Bartlett Stormwater Management Plan encourages cost effective methods of achieving stormwater management goals.

This policy provides for a reduction in overall cost, allows funding of more facets of the SWMP, and increases the SWMP's effectiveness in achieving all goals.

Fiscal Responsibility Recommendations of the SWMP will be carried out only if their costs are clearly established and understood, and a source of revenue to offset those costs is available.

12. The City of Bartlett Stormwater Management Plan requires the estimation of costs of stormwater management recommendations and identification of appropriate revenue sources before their adoption.

This policy enhances the credibility and acceptability of the SWMP, thereby encouraging its implementation and the achievement of all its goals.

WATERSHED DESCRIPTION

The City of Bartlett has two major waterways that collect runoff from its jurisdiction. The watersheds for these rivers bisect the city east to west with the northern watershed flowing to the **Loosahatchie River** and the southern watershed flowing to the **Wolf River**. Both of these waterways are part of the **Mississippi River** watershed. Other active waterways include Howard Creek, Raner Creek, Buckhead Creek, Oliver Creek, Harrington Creek and the unnamed tributary to Fletcher Creek, as well as, various smaller creeks, streams, and tributaries.

Eighteen drainage basins are identified within the jurisdictional boundaries of the City of Bartlett ([Figure 2.1](#)). With terrain varying from flat to hilly, each basin displays its own character. The Loosahatchie River watershed is subdivided into seven basins. The Wolf River watershed is divided into two major basins that are further subdivided into a total of eleven smaller basins or laterals.

1. Loosahatchie River Watershed

- a. Basin 1 is the **Kate** basin. Kate basin is located in the most north-western portion of the City between Austin Peay and Singleton Highways. Consisting of unnamed tributaries to the Loosahatchie River, the basin drains an area of nearly 2050 acres with over 430 acres within the City of Bartlett.
- b. Basin 2 **Howard Creek**. The headwaters of Howard Creek are located in the Daybreak subdivision. It flows through residential and undeveloped portions of the City, including the Quail Ridge Golf Course, exiting the City of Bartlett's jurisdiction at Billy Maher Road south of Ravencrest subdivision. After a short meander through pasture land in Shelby County, it re-enters the City at Old Brownsville Road and continues to flow northward into the Loosahatchie River. Howard Creek is slightly more than seven miles long and drains an area of over 2300 acres with more than 1800 acres within the City of Bartlett.
- c. Basin 3 is **Raner Creek**. The headwaters of Raner Creek are located in the Dalton Downs subdivision. It flows through residential and undeveloped portions of the City, including farmland, before exiting the City near Rockyford subdivision and continuing on to the Loosahatchie River. Raner Creek is slightly less than four miles long and drains an area of nearly 1400 acres with slightly more than 1300 acres within the City of Bartlett.
- d. Basin 4 is the **Rockyford** basin. Although not designated as a creek, the Rockyford basin consists of unnamed tributaries to the Loosahatchie River and drains an area beginning near the northern terminus of Luther Road, flowing through rural residential and farm land before exiting the City near Rockyford subdivision. The Rockyford basin drains an area of over 600 acres with approximately 330 acres within the City of Bartlett.
- e. Basin 5 is the **Sandeman** basin. The Sandeman basin is composed of unnamed tributaries to the Loosahatchie River that drains an area beginning near Dalton Downs subdivision, flowing through residential, rural residential and farm land before exiting the City near Walker Farms subdivision and continuing to the Loosahatchie River.

SECTION 2 - WATERSHED DESCRIPTION

The Sandeman basin drains an area of over 1350 acres with approximately 860 acres within the City of Bartlett.

- f. Basin 6 is **Buckhead Creek**. The headwaters of Buckhead Creek begin in the Davies Plantation area of the City. It flows through rural residential areas and rural open areas before leaving the city at Old Brownsville Road and continuing on to the Loosahatchie River. Buckhead Creek and its associated tributaries are nearly 15 miles long and drain an area of slightly more than 3800 acres with nearly 3000 acres within the City of Bartlett.
 - g. Basin 7 and the last basin of the Loosahatchie watershed is **Oliver Creek**. With its headwaters also beginning in the Davies Plantation area, Oliver Creek flows through rural residential areas before leaving the City at the City's boundary with the City of Lakeland near Davies Manor Drive. As it continues to flow north, it then forms the City's boundary with the City of Lakeland at Memphis-Arlington Road. It exits the City north of Oliver Grove Subdivision at the CXS railroad, entering Shelby County as it continues to the Loosahatchie River. The Oliver Creek basin drains an area of nearly 3600 acres with approximately 1500 acres within the City of Bartlett's jurisdiction.
2. The **Wolf River Watershed** is divided into two major watersheds, the Harrington Creek and Fletcher Creek watersheds, which are further divided into a total of eleven sub-basins.
- a. **Harrington Creek** watershed. The Harrington Creek watershed has its headwaters outside the City of Bartlett, entering the City from the north through Nesbit Park. Flowing through forested, residential and commercial areas of the City, it exits the City near Freeman Park. With nearly 17 miles of waterways, the Harrington Creek watershed is divided into four sub-basins.
 - 1) Basin 1 is **Lateral A & B**, tributaries to Harrington Creek. These laterals are located in the western most reaches of the City, bordering with the City of Memphis. Flowing through mostly residential sections of the City, they tie into the main stream of Harrington Creek near Freeman Park. Basin 1 drains an area of slightly more than 1350 acres with approximately 540 acres within the City of Bartlett.
 - 2) Basin 2 is the main stream for **Harrington Creek**. Its route nearly parallels Bartlett Blvd before crossing into Nesbit Park, with a lateral continuing north, paralleling Billy Maher Road. It's described in item 2a above. Basin 2 drains an area of more than 2300 acres with approximately 1450 acres within the City of Bartlett.
 - 3) Basin 3 is **Lateral C & D**, tributaries to Harrington Creek. With its beginnings near Altruria Road, north of Stage Road, this basin comprises mostly residential areas with some commercial areas along Stage Road and also along Bartlett Blvd. The laterals tie back into the main stream of Harrington Creek near Bartlett Blvd

SECTION 2 - WATERSHED DESCRIPTION

and Freeman Park. Basin 3 drains an area of slightly more than 1200 acres.

- 4) Basin 4 is **Lateral E** of Harrington Creek. Beginning at Stoneridge Park, this tributary flows through mostly residential areas and ties into the Harrington Creek main stream near Blackwell Road. Basin 4 drains an area of nearly 720 acres.
- b. **Fletcher Creek** watershed. Although Fletcher Creek is outside the jurisdictional boundaries of the City of Bartlett, its unnamed tributary comprises the largest portion of the City's Wolf River watershed. With over 23 miles of waterways, the unnamed tributary to Fletcher Creek is divided into seven sub-basins.
- 1) **Fletcher Creek Basin 1** is located in the southern most section of the City, providing drainage for mostly commercial properties in the Summer Oaks area and along Summer Avenue as well as some rural residential areas east of Juneway Drive. Its two tributaries in Bartlett both cross Summer Avenue and pass into the City of Memphis near Charles Bryant Road as well as just south of Kirby-Whitten Road. Basin 1 drains an area of more than 725 acres with approximately 185 acres within the City of Bartlett.
 - 2) Basin 2 is known as **Lateral E to Fletcher Creek** and has its headwaters near the Kirby Lakes area. This tributary begins in residential areas but crosses both commercial and open areas of the City. It passes into the City of Memphis at two places along U.S. Highway 64, east of Summer Avenue. Basin 2 drains an area of more than 800 acres with approximately 580 acres within the City of Bartlett.
 - 3) Basin 3 is known as **Lateral D to Fletcher Creek**. Beginning in the Oak Road Meadows subdivision, this tributary passes through mostly rural residential and open areas before joining with the tributary draining the Wolfchase Basin (basin 6) near the Cherry Valley subdivision, just north of U.S. Highway 64. Basin 3 drains an area of slightly more than 460 acres.
 - 4) Basin 4 is known as **Lateral C to Fletcher Creek**. Its headwaters are located near Fonta Road and flows mainly through rural residential areas of the City before joining with Lateral D near Yale Road. Basin 4 drains an area of nearly 910 acres.
 - 5) Basin 5 is known as **Lateral A to Fletcher Creek**. With its headwaters located near the Davies Plantation section of the City, this tributary flows through a large cross section of rural residential, residential, open pastures and farm land and commercial areas before joining with the tributary for the Wolfchase Basin (basin 6) near Brother Blvd, south of Yale Road. Basin 5 drains an area of over 2450 acres.

SECTION 2 - WATERSHED DESCRIPTION

- 6) Basin 6 is known as the ***Wolfchase Basin*** and has its origins in both the City of Bartlett and the City of Memphis. In Bartlett, its headwaters is near Lakeside Behavior Health Hospital on Brunswick Road and after a relatively short journey it crosses into the City of Memphis west of New Brunswick Road. It re-enters the City at U.S. Highway 64 east of Kate Bond Road. Passing through mostly commercial and open farm land, it's joined by tributaries from basins 3 and 5 before passing back into the City of Memphis at U.S. Highway 64, east of Santa Valley. The Wolfchase Basin drains an area of nearly 1700 acres with approximately 950 acres within the City of Bartlett.
- 7) Basin 7 is known as the ***Fletcher Creek Upper Basin***. Although the headwaters for this basin are actually located in the City of Memphis, this basin drains water from the Davies Plantation area in the most south-eastern portion of the City. The Fletcher Creek Upper Basin drains an area of nearly 1900 acres with approximately 240 acres within the City of Bartlett.

The NPDES General Permit for Discharges from Small MS4s requires stream monitoring in streams with EPA approved TMDLs and in streams with unavailable parameters for nutrients, pathogens or siltation as listed in the most current Clean Water Act Section 303(d) list or the TDEC mapping tool website. [Section 6](#) of the SWMP provides details of monitoring and assessment requirements.

The 2024 303(d) List lists the Loosahatchie River, Howard Creek, Buckhead Creek, Oliver Creek, Harrington Creek and the unnamed tributary of Fletcher Creek as having unavailable parameters due to discharges from MS4s. Additionally, these streams are also identified as having unavailable parameters for siltation, habitat alteration, pathogens or nutrients. The Loosahatchie River and the Wolf River have EPA approved TMDLs for E.coli. The unnamed tributary to Fletcher Creek has an EPA approved TMDL for arsenic. [Table 5-1](#) in Section 5 summarizes the information contained in the 2024 303(d) List and the TMDL information from the TDEC website.

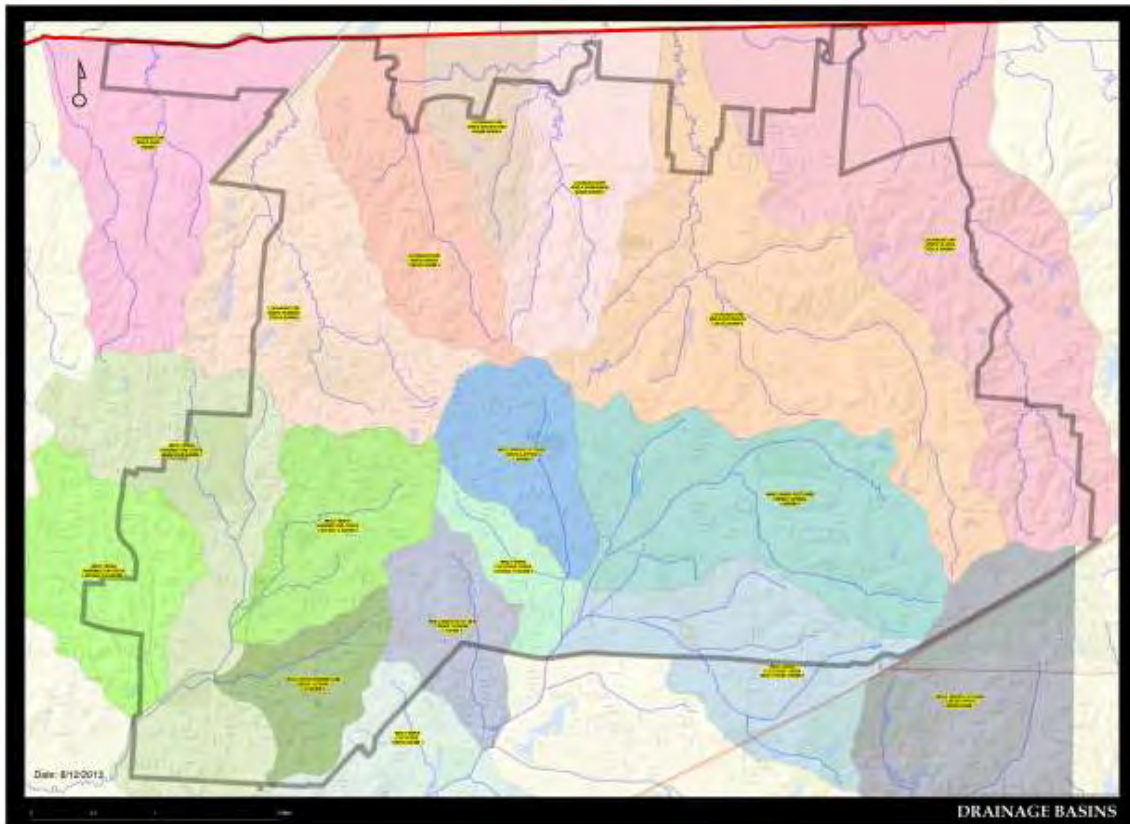


Figure 2.1 Drainage Basin Map
 (Gray line indicates City of Bartlett boundary)

SECTION 2 - WATERSHED DESCRIPTION

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SECTION 3 - COVERAGE UNDER THE NPDES SMALL MS4 GENERAL PERMIT

CURRENT NPDES PERMIT

The City of Bartlett has applied to and received coverage from the Tennessee Department of Environment and Conservation under the NPDES Small MS4 General Permit (the Permit).

The Permit authorizes the City of Bartlett to discharge storm water to waters of the state. Additionally, the following non-storm water discharges are authorized:

- Water line flushing
- Landscape irrigation
- Diverted stream flows
- Rising ground waters
- Uncontaminated ground water infiltration (definition provided in the Permit)
- Uncontaminated pumped ground water
- Discharges from potable water sources
- Foundation drains
- Air conditioning condensate
- Irrigation water
- Springs
- Water from crawl space pumps
- Footing drains
- Lawn watering
- Individual residential car washing
- Flows from riparian habitats and wetlands
- De-chlorinated swimming pool discharges
- Street wash water
- Discharges or flows from firefighting activities

Requirements specified in the Permit form the framework for the SWMP and the Stormwater Management Program described in [Section 6](#) and [Appendix 1](#) of the SWMP.

COVERAGE AREA

Coverage only applies within the jurisdictional boundaries of the City of Bartlett as shown in [Figure 3.1](#). As reserve areas are annexed into the City, the jurisdictional boundaries of the City must be updated and included in the annual report described in [Section 7](#) of the SWMP.

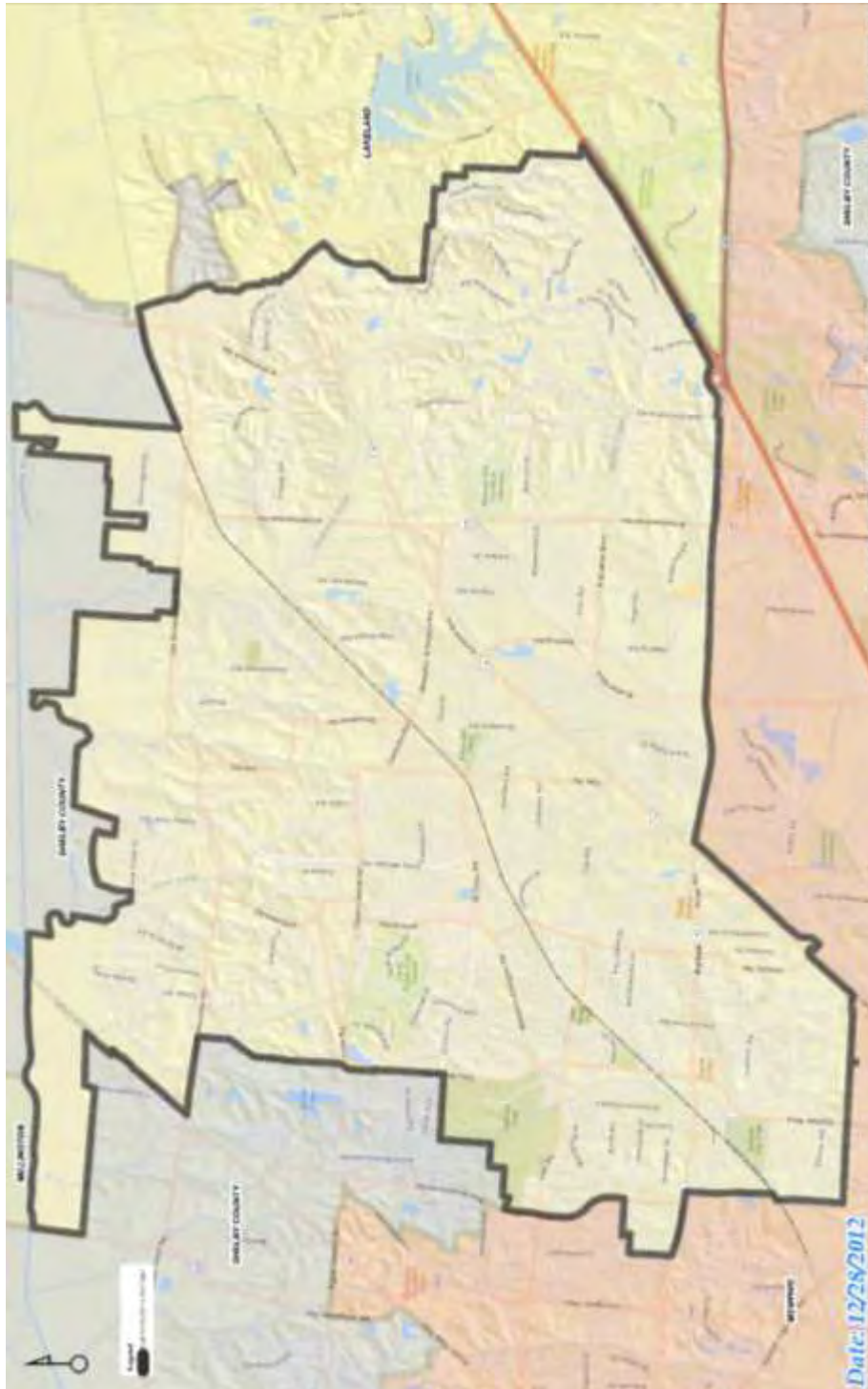
SECTION 3 – COVERAGE UNDER THE NPDES SMALL MS4 GENERAL PERMIT

Figure 3.1 City of Bartlett Jurisdictional Boundary

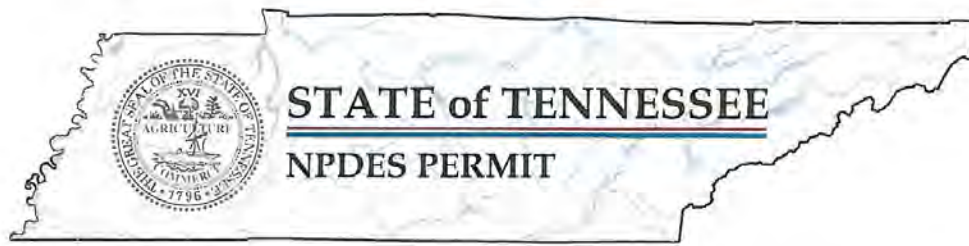
NOTICE OF INTENT REQUIREMENTS

Section 2 of the Permit specifies the requirement to submit a notice of intent (NOI) to obtain coverage under the NPDES General Permit. The City of Bartlett NOI was electronically submitted to the TDEC and accepted.

APPROVED NOTICE OF COVERAGE

An approved notice of coverage (NOC) was issued to the City of Bartlett with an effective date of January 1, 2023, a copy of which is provided at [figure 4.1](#).

SECTION 4 – NOTICE OF INTENT



TENNESSEE DEPARTMENT OF ENVIRONMENT AND CONSERVATION

DIVISION OF WATER RESOURCES

William R. Snodgrass - Tennessee Tower
 312 Rosa L. Parks Avenue, 11th Floor
 Nashville, Tennessee 37243-1102

Tracking No. TNS075698

Notice of Coverage (NOC) under the General NPDES Permit for
SMALL MUNICIPAL SEPARATE STORM SEWER SYSTEM (MS4)

Under authority of the Tennessee Water Quality Control Act of 1977 (T.C.A. 69-3-101 et seq.) and the delegation of authority from the United States Environmental Protection Agency under the Federal Water Pollution Control Act, as amended by the Clean Water Act of 1977 (33 U.S.C. 1251, et seq.) the following operator of a small municipal separate storm sewer system is authorized to discharge stormwater runoff into the waters of the State of Tennessee in accordance with the various eligibility criteria, administrative procedures, program requirements, reporting requirements, etc. set forth in the Tennessee MS4 NPDES general permit.

Permittee Name:	City of Bartlett
is authorized to discharge:	stormwater runoff
from separate storm sewer system located in:	Bartlett, TN, Shelby County
to to waters of the state:	in accordance with the required program elements and other conditions set forth in the Tennessee small MS4 general permit.
Issuance date:	12/09/2022
Effective date:	01/01/2023
Expiration date:	08/31/2027

Figure 4.1 City of Bartlett Notice of Coverage

DISCHARGES TO WATERBODIES WITH UNAVAILABLE PARAMETERS OR EXCEPTIONAL TENNESSEE WATERS

303(d) Listed Streams Section 3 of the Permit requires “the permittee must determine whether it discharges stormwater into streams with unavailable parameters for nutrients, pathogens, siltation, or other parameters related to stormwater runoff from urbanized areas”. Additionally, “For waters with unavailable parameters, the permittee must determine whether a total maximum daily load (TMDL) has been established and approved by the Environmental Protection Agency (EPA)”. Table 5-1 summarizes the data obtained from the 2024 303(d) List as well as that obtained from the TDEC website for EPA-Approved TMDLs.

Water Body Name	Pollutant of Concern	Pollutant Source	Approved TMDL
Loosahatchie River (TN08010209 002-1000)	Mercury, lead, chlordane, PCBs, dioxin, nutrients, sedimentation/siltation, physical substrate habitat alterations, and Escherichia coli	Contaminated sediment, discharges from MS4 area, crop production, atmospheric deposition, land development and channelization	Yes. Escherichia coli and PCBs.
Loosahatchie River (TN080102 002-2000)	Escherichia coli, nutrients, physical substrate habitat alterations, and sedimentation/siltation	Discharges from MS4 area, crop production, land development, and channelization.	Yes. Escherichia coli.
Howard Creek	Nutrients and Escherichia coli	Discharges from MS4 area	No
Buckhead Creek	Dissolved oxygen, sedimentation/siltation, nutrients and Escherichia coli	Discharges from MS4 area and land development	No
Oliver Creek	Nutrients, sedimentation/siltation and Escherichia coli	Discharges from MS4 area and land development	No
Harrington Creek	Dissolved oxygen, nutrients and Escherichia coli	Discharges from MS4	No
Unnamed Tributary to Fletcher Creek	Alteration in stream-side or littoral vegetative covers, arsenic, dissolved oxygen, physical substrate habitat alterations and Escherichia coli	Discharges from MS4 and channelization	Yes. Arsenic.

Table 5-1 303(d) Listed Waters within Bartlett MS4

Discharges into Water Bodies with EPA-Approved or Established TMDLs Section 3 of the Permit requires:

“The permittee must implement stormwater pollutant reductions consistent with assumptions and requirements of any applicable WLA(s) in TMDLs established or approved by EPA. If a TMDL is applicable, the Stormwater Management Program must include Best Management Practices (BMPs) specifically targeted to achieve the reductions prescribed by the TMDL. The Stormwater Management Program must also contain a monitoring and/or evaluation component to assess the effectiveness of the BMPs in achieving the reductions, and overall compliance with the standard Maximum Extent Practicable (MEP).”

SECTION 5 – SPECIAL CONDITIONS

Monitoring can entail a number of activities, including but not limited to: outfall monitoring, in-stream monitoring or modeling. Monitoring requirements are further described in sub-part 4.6 of this permit”.

The City of Bartlett has not been identified with a waste load allocation in EPA established or approved TMDLs for Escherichia coli or arsenic. However, the City has several BMPs established to aid in the reduction or elimination of these pollutants. The BMPs primarily consists of public education and dry weather outfall reconnaissance inspections. Both programs are more fully explained in [Appendix 1](#). The effectiveness of the BMPs is monitored by pathogen sampling. The sampling program is more fully explained in [Appendix 1](#). Since neither the EPA nor the TDEC can provide information concerning effective measures for reducing arsenic, there are no BMPs in place for arsenic reductions. Although not required, the City has conducted sampling for arsenic in the affected stream segment but could not isolate a source. Additionally, the Permit requires:

“Not later than 180 days following a newly approved or established TMDL, the Stormwater Management Program shall be revised to include BMPs specifically targeted to achieve the reductions prescribed by the TMDL.”

The possibility continues to exist that new TMDLs may establish a WLA to the City of Bartlett. With this in mind, every TMDL which the City of Bartlett receives notification of pending or actual publication must be reviewed and its impacts upon the City assessed. If the City of Bartlett must meet WLA, the Stormwater Management Program shall be modified to provide development and implementation planning to achieve the TMDL requirements.

Discharges to Waterbodies with Unavailable Parameters without TMDLs. Section 3 of the Permit requires:

“For the discharge of nutrients, pathogens, siltation or other parameters related to stormwater runoff from urbanized areas into a receiving water which has been identified according to subpart 3.1 as having unavailable parameters but not covered by a TMDL, the permittee must document in its Stormwater Management Program how the BMPs will address the discharge of these pollutants. Compliance with this section shall be demonstrated through a monitoring component to assess the effectiveness of the BMPs in controlling the discharge of these pollutants. This component must also be included in the Stormwater Management Program. Monitoring can entail a number of activities including but not limited to: outfall monitoring, in-stream monitoring and/or modeling. Monitoring requirements are further described in subpart 4.6 of this permit.”

As noted in [Table 5-1](#), several water bodies within the jurisdictional boundaries of the City of Bartlett are listed on the Section 303(d) list as having unavailable parameters and do not have established or approved EPA TMDLs for the pollutant of concern. Specific BMPs used and monitoring components used to assess their effectiveness to address these pollutants are outlined in [Section 6](#) of this SWMP.

CO-PERMITTEES AND COORDINATED PROGRAMS

Co-permittees The Permit allows multiple MS4s to share permit responsibilities under a single NOI. As of the publication date of the SWMP, the City of Bartlett does not participate as a co-permittee under a single NOI.

Coordinated Programs Implementation of one or more of the minimum control measures described in subpart 4.2 of the Permit may be shared with another entity, or the entity may fully take over the measure. As of the publication date of the SWMP, the City of Bartlett does not participate in a coordinated program.

SECTION 6 – STORMWATER MANAGEMENT PROGRAM

REQUIREMENTS

Section 4 of the Permit requires the City of Bartlett to “continue to *develop, implement, and enforce a Stormwater Management Program as described below and according to 40 CFR §122.30-122.37 to protect water quality and to satisfy the appropriate water quality requirements of the Clean Water Act. The Program shall include engineering methods, system design, control techniques, and/or management practices appropriate for the control of pollutants of concern*”.

This section of the SWMP outlines the City of Bartlett's Stormwater Management Program and the policies and procedures used to implement the minimum control measures and requirements of section 4.2 of the Permit. Where policies and procedures have yet to be developed, the Stormwater Management Program outlines the plan to develop, implement and enforce the minimum control standard. The Permit requires all elements of the Stormwater Management Program to be documented in the SWMP. The City of Bartlett's Stormwater Management Program is located in [Appendix 1](#) to this SWMP. Although the SWMP contains all elements of the Stormwater Management Program, the program is designed to function independent of the SWMP.

The Stormwater Management Program must also include the following information for each of the six minimum control measures described in section 4.2 of the permit:

- a) A detailed written document(s) that describes how the permittee intends to comply with the permit's requirements.
- b) A detailed narrative description of the BMPs/activities, programs and processes that the permittee or other entity will implement for each of the stormwater control minimum measures;
- c) The measurable goals for each of the BMPs/activities including, as appropriate, the months and years in which the permittee will undertake required actions, including interim milestones and the frequency of the action.
- d) Identify by name, job title or department those with the responsibility for implementing or coordinating the Program elements in the Stormwater Management Program; and
- e) Specific elements detailed in each subpart of Part 4 of the Permit.

The Permit requires the City of Bartlett to continue to implement its existing program and all changes to the Stormwater Management Program and written documentation or “plans” required by the Permit be completed within 12 months of the effective date of the notice of coverage with the exception of those items listed in the [table 6-1](#).

SECTION 6 – STORMWATER MANAGEMENT PROGRAM

Permit Requirement	Description	Implementation Date
Legal Authority e.g. Ordinance Updates	All updates to the legal authority required by changes to this permit shall be fully implemented and adopted (as applicable)	As soon as possible in conjunction with the permanent stormwater legal authority (not to exceed 24 months from the effective date of the permit). (September 1, 2024)
4.2.4	Modifications to ordinance or other regulatory mechanism for construction site runoff pollutant control program consistent with requirements of the NPDES general permit for construction stormwater runoff effective October 1, 2021.	Changes to regulatory mechanisms and implementation into the construction site runoff pollutant control program within 24 months of the effective date of the permit. (October 1, 2023)
4.2.4	Modifications to ordinance or other regulatory mechanism for construction site runoff pollutant control program consistent with requirements of any reissued NPDES general permit for construction storm water runoff with an effective date after September 30, 2026.	Changes to regulatory mechanisms and implementation into the construction site runoff pollutant control program within 18 months of the effective date of the NPDES general permit for construction stormwater runoff.
4.2.5	Implementation of permanent stormwater management program.	Either the effective date of the notice of coverage or as specified in the implementation plan (not to exceed 24 months from the effective date of the permit NOTE: This permit requirement has been waived by a Settlement Agreement with TDEC.
4.2.5.1d	Submit implementation plan for permanent stormwater management program	90 days from the effective date of the permit. NOTE: This permit requirement has been waived by a Settlement Agreement with TDEC.
4.6.1.1.2	Only required if Option 2 is selected, A proposed alternate monitoring plan must be submitted to the Nashville Central Office at Water.Permits@tn.gov	24 months from the Effective Date of the permit. (September 1, 2024)

Table 6.1 Minimum Control Measures Implementation Time-line

SECTION 6 – STORMWATER MANAGEMENT PROGRAM

MINIMUM CONTROL MEASURES

Public Education and Outreach on Stormwater impacts (permit section 4.2.1.) The Permit requires the City of Bartlett to develop and implement an education and outreach program that includes public education and outreach on stormwater impacts as a component of the stormwater management program. The program will be designed to reach three major audiences, (1) the public (2) engineering and development community and (3) employees.

The permit continues that the program shall include:

1. Specific public information/education activities that are designed to meet the management measure;
2. Identification of job categories and applicable management measures for employee education;
3. Schedule/calendar of events for each year; and
4. Methodology to evaluate components to assess overall effectiveness and need for improvement.

Public Education and Outreach. Section 4.2.1.1 of the permit provides the management measures, goals and annual reporting requirements for the public audience portion of this minimum requirement.

BMP/Activity	Public Education and Outreach
Measurable Goal	Conduct or sponsor a minimum of six activities each reporting year that addresses each of the management measures
Primary Contact	Storm Water Coordinator
Management Measures	General awareness of the impacts on water quality; Awareness of the importance of maintenance activities for operators of permanent BMPs or SCMs; Awareness of the proper storage, use and disposal of pesticides, herbicides, fertilizers, oil and other automotive fluids; Awareness of identifying and reporting procedures for illicit connections/discharges, sanitary sewer seepage or spills, etc.
Reporting requirements	Document total number of activities conducted to include description, dates, management measures addressed, specifically targeted audience and the approximate number of that audience that was reached. For sponsored activities, identify if the event was sponsored monetarily or in kind.

To help achieve these management measures, the City of Bartlett uses several activities/BMPs. The following summarizes those activities/BMPs. Detailed information concerning the implementation of the overall management measures and these programs is located in [Appendix 1](#).

SECTION 6 – STORMWATER MANAGEMENT PROGRAM

1.

BMP/Activity	City of Bartlett Official website.
Measurable Goal	Maintain official website relevant to changing federal, state and local regulations or laws as well as permit requirements.
Primary Contact	Stormwater Coordinator
Pollutants of Concern	Arsenic, sediments, nutrients, trash and debris, pathogens, pesticides, petroleum products, illicit discharges, illegal dumping.
Management measure	General awareness of the impacts on water quality; Awareness of the importance of maintenance activities for operators of permanent BMPs or SCMs; Awareness of the proper storage, use and disposal of pesticides, herbicides, fertilizers, oil and other automotive fluids; Awareness of identifying and reporting procedures for illicit connections/discharges, sanitary sewer seepage or spills, etc.
Monitoring Requirements	Review as part of the Stormwater Management Program's annual review and update accordingly.

2.

BMP/Activity	Stormwater Education Booth.
Measurable Goal	Operate a stormwater education booth at the Bartlett Fall Festival.
Primary Contact	Stormwater Coordinator
Pollutants of Concern	Sediments, nutrients, trash and debris, pathogens, pesticides, petroleum products, illicit discharges, illegal dumping.
Management measure	General awareness of the impacts on water quality; Awareness of identifying and reporting procedures for illicit connections/discharges, sanitary sewer seepage or spills, etc.
Monitoring Requirements	Document Stormwater Education Booth use to include description, dates, management measures addressed, specifically targeted audience and the approximate number of that audience reached.

3.

BMP/Activity	Preventing Stormwater Pollution General Education PowerPoint™ Presentation.
Measurable Goal	Make available annually to neighborhood associations or other groups when requested.
Primary Contact	Stormwater Coordinator
Pollutants of Concern	Sediments, nutrients, pathogens, trash and debris, pesticides, petroleum products.
Management measure	General awareness of impacts on water quality Awareness of the proper use and disposal of pesticides, herbicides, fertilizer and oil.
Monitoring Requirements	Document presentations presented to include description, dates, management measures addressed, specifically targeted audience and the approximate number of that audience reached.

SECTION 6 – STORMWATER MANAGEMENT PROGRAM

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| 4. | BMP/Activity | Tennessee Homeowners' Guide to Cleaner Water Education Brochure. |
| | Measurable Goal | Make available to the public 100 brochures each year |
| | Primary Contact | Stormwater Coordinator |
| | Pollutants of Concern | Sediments, nutrients, pathogens, pesticides, petroleum products, illegal dumping. |
| | Management measure | General awareness of impacts on water quality;
Awareness of the proper storage, use and disposal of pesticides, herbicides, fertilizers, oil and other automotive fluids |
| | Monitoring Requirements | Document number of brochures distributed to include description, dates, management measures addressed, specifically targeted audience and the approximate number of that audience reached. |
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| 5. | BMP/Activity | Pet Waste and Water Quality Brochure |
| | Measurable Goal | Make available to the public 100 brochures each year |
| | Primary Contact | Stormwater Coordinator |
| | Pollutants of Concern | Pathogens |
| | Management measure | General awareness of impacts on water quality |
| | Monitoring Requirements | Document number of brochures distributed to include description, dates, management measures addressed, specifically targeted audience and the approximate number of that audience reached. |
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| 6. | BMP/Activity | Clean Water – Everybody's Business Bookmark |
| | Measurable Goal | Make available to the public 100 bookmarks each year |
| | Primary Contact | Stormwater Coordinator |
| | Pollutants of Concern | Sediments, nutrients, pathogens, pesticides, petroleum products, illegal dumping. |
| | Management measure | General awareness of impacts on water quality;
Awareness of the proper storage, use and disposal of pesticides, herbicides, fertilizers, oil and other automotive fluids. |
| | Monitoring Requirements | Document number of bookmarks distributed to include description, dates, management measures addressed, specifically targeted audience and the approximate number of that audience reached. |

SECTION 6 – STORMWATER MANAGEMENT PROGRAM

7.	BMP/Activity	City of Bartlett Facebook page.
	Measurable Goal	Post at least one public service announcement (PSA) per reporting period.
	Primary Contact	Stormwater Coordinator
	Pollutants of Concern	Varies depending upon PSA. May include one or more of the following: sediments, nutrients, trash and debris, pathogens, pesticides, petroleum products, illicit discharges, illegal dumping.
	Management measure	Varies depending upon PSA. May include one or more of the following: General awareness of impacts on water quality; Awareness of the importance of maintenance activities for operators of permanent BMPs/SCMs; Awareness of the proper storage, use and disposal of pesticides, herbicides, fertilizers, oil and other automotive fluids; Awareness of identifying and reporting procedures for illicit connections/discharges, sanitary sewer seepage or spills, etc.
8.	Monitoring Requirements	Report number of PSAs made to include description, dates, management measures addressed, specifically targeted audience and the approximate number of that audience reached.
	BMP/Activity	Tennessee Stormwater Association (TNSA) Social Media Campaign.
	Measurable Goal	Participate in the program at the per capita funding level as invoiced by the TNSA. (Monetary sponsor)
	Primary Contact	Stormwater Coordinator
	Pollutants of Concern	Varies depending upon PSA. May include one or more of the following: sediments, nutrients, trash and debris, pathogens, pesticides, petroleum products, illicit discharges, illegal dumping.
	Management measure	Varies depending upon PSA. May include one or more of the following: General awareness of impacts on water quality; Awareness of the importance of maintenance activities for operators of permanent BMPs/SCMs Awareness of the proper storage, use and disposal of pesticides, herbicides, fertilizers, oil and other automotive fluids; Awareness of identifying and reporting procedures for illicit connections/discharges, sanitary sewer seepage or spills, etc.
	Monitoring Requirements	Maintain copy of report provided by the TNSA. Report number of PSAs made to include description, dates, management measures addressed, specifically targeted audience and the approximate number of that audience reached.

SECTION 6 – STORMWATER MANAGEMENT PROGRAM

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| 9. | BMP/Activity | Detention Basin Maintenance Brochure. |
| | Measurable Goal | Distribute brochure on an as needed basis. |
| | Primary Contact | Stormwater Coordinator |
| | Pollutants of Concern | Sediments, nutrients, trash and debris, pathogens, pesticides, petroleum products, illicit discharges, illegal dumping. |
| | Management measure | General awareness of impacts on water quality;
Awareness of the importance of maintenance activities for operators of permanent BMPs/SCMs. |
| | Monitoring Requirements | Document number of brochures distributed to include description, dates, management measures addressed, specifically targeted audience and the approximate number of that audience reached. |
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| 10. | BMP/Activity | Automotive Maintenance and Care Brochure. |
| | Measurable Goal | Distribute brochure on an as needed basis. |
| | Primary Contact | Stormwater Coordinator |
| | Pollutants of Concern | Petroleum products, illicit discharges, illegal dumping. |
| | Management measure | General awareness of impacts on water quality;
Awareness of the proper storage, use and disposal of pesticides, herbicides, fertilizers, oil and other automotive fluids |
| | Monitoring Requirements | Document number of brochures distributed to include description, dates, management measures addressed, specifically targeted audience and the approximate number of that audience reached. |
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| 11. | BMP/Activity | Illicit Discharge and Elimination Handout. |
| | Measurable Goal | Distribute handouts at homeowner association meetings and the Bartlett Fall Festival. |
| | Primary Contact | Stormwater Coordinator |
| | Pollutants of Concern | Sediments, nutrients, trash and debris, pathogens, pesticides, petroleum products, illicit discharges, illegal dumping. |
| | Management measure | General awareness of the impacts on water quality;
Awareness of identifying and reporting procedures for illicit connections/discharges, sanitary sewer seepage or spills, etc. |
| | Monitoring Requirements | Document number of handouts distributed to include description, dates, management measures addressed, specifically targeted audience and the approximate number of that audience reached. |
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| 12. | BMP/Activity | IDDE – A Grate Concern Video. |
| | Measurable Goal | Post at least once per reporting period. |
| | Primary Contact | Stormwater Coordinator |
| | Pollutants of Concern | Sediments, nutrients, trash and debris, pathogens, pesticides, petroleum products, illicit discharges, illegal dumping. |
| | Management measure | General awareness of impacts on water quality;
Awareness of identifying and reporting procedures for illicit connections/discharges, sanitary sewer seepage or spills, etc. |
| | Monitoring Requirements | Document numbers of postings made to include description, dates, management measures addressed, specifically targeted audience and the approximate number of that audience reached. |

SECTION 6 – STORMWATER MANAGEMENT PROGRAM

13.	BMP/Activity	Stormwater Pollution Found in Your Neighborhood Door Tags.
	Measurable Goal	Distribute to each home within a block of a reported illicit discharge where the discharger cannot be identified.
	Primary Contact	Stormwater Coordinator
	Pollutants of Concern	Sediments, nutrients, pathogens, trash and debris, pesticides, petroleum products.
	Management measure	General awareness of impacts on water quality; Awareness of the proper storage, use and disposal of pesticides, herbicides, fertilizers, oil and other automotive fluids; Awareness of identifying and reporting procedures for illicit connections/discharges, sanitary sewer seepage or spills, etc.
	Monitoring Requirements	Document number of door tags distributed to include description, dates, management measures addressed, specifically targeted audience and the approximate number of that audience reached.
14.	BMP/Activity	Keep Bartlett Beautiful.
	Measurable Goal	Perform one activity per reporting period.
	Primary Contact	Parks Department
	Pollutants of Concern	Trash and debris, pathogens, illegal dumping.
	Management measure	General awareness of impacts on water quality;
	Monitoring Requirements	Document numbers of events to include description, dates, management measures addressed, specifically targeted audience and the approximate number of that audience reached.

Engineering and Development Community Education and Outreach. Section 4.2.1.2 of the permit provides the management measures, goals and annual reporting requirements for the engineering and development audience portion of this minimum requirement.

BMP/Activity	Engineering and Development Community Education and Outreach
Measurable Goal	Conduct or sponsor a minimum of two activities each reporting year that addresses each of the management measures
Primary Contact	Stormwater Coordinator
Management Measures	Awareness of the stormwater ordinances, regulations and guidance materials related to long-term water quality impacts; Awareness of stormwater ordinances, regulations and guidance materials related to construction phase water quality impacts
Reporting requirements	Document total number of activities conducted to include description, dates, management measures addressed, specifically targeted audience and the approximate number of that audience reached.

To help achieve these management measures, the City of Bartlett uses several BMPs/activities. The following summarizes those BMPs/activities. Detailed information concerning the implementation of the overall management measures and these programs is located in [Appendix 1](#).

SECTION 6 – STORMWATER MANAGEMENT PROGRAM

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| 1. | BMP/Activity | City of Bartlett Official website. |
| | Measurable Goal | Maintain official website relevant to changing federal, state and local regulations or laws as well as permit requirements. |
| | Primary Contact | Stormwater Coordinator |
| | Pollutants of Concern | Arsenic, sediments, nutrients, trash and debris, pathogens, pesticides, petroleum products, illicit discharges, illegal dumping. |
| | Management measure | Awareness of the stormwater ordinances, regulations and guidance materials related to long-term water quality impacts; Awareness of stormwater ordinances, regulations and guidance materials related to construction phase water quality impacts. |
| | Monitoring Requirements | Review as part of the Storm Water Management Program's annual review and update accordingly. |
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| 2. | BMP/Activity | Pre-application meetings |
| | Measurable Goal | Accomplish meeting when requested |
| | Primary Contact | Planning Department |
| | Management Measure | Address awareness of the stormwater ordinances, regulations and guidance materials related to long-term water quality impacts.
Address awareness of stormwater ordinances, regulations and guidance materials related to construction phase water quality impacts. |
| | Monitoring Requirements | Document number of activities conducted to include description, date, management measures addressed, specifically targeted audience and approximate number of that audience reached. |
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| 3. | BMP/Activity | Mid-South Clean Water Days |
| | Measurable Goal | Participate in the Mid-South Clean Water Days either monetarily or by setting up a stormwater education booth. |
| | Primary Contact | Stormwater Coordinator |
| | Management Measure | Varies but may include awareness of the stormwater ordinances, regulations and guidance materials related to long-term water quality impacts and awareness of stormwater ordinances, regulations and guidance materials related to construction phase water quality impacts. |
| | Monitoring Requirements | Document number of activities conducted to include description, date, management measures addressed, specifically targeted audience and approximate number of that audience reached. |
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| 4. | BMP/Activity | Engineering and Development Communities mailing list. |
| | Measurable Goal | Use mailing list on an as needed basis. |
| | Primary Contact | Stormwater Coordinator |
| | Management Measure | Varies but may include awareness of the stormwater ordinances, regulations and guidance materials related to long-term water quality impacts and awareness of stormwater ordinances, regulations and guidance materials related to construction phase water quality impacts. |
| | Monitoring Requirements | Document number of activities conducted to include description, date, management measures addressed, specifically targeted audience and approximate number of that audience reached. |

SECTION 6 – STORMWATER MANAGEMENT PROGRAM

Employee Education and Outreach. Section 4.2.1.3 of the permit provides the management measures, goals and annual reporting requirements for the employee audience portion of this minimum requirement. Detailed information concerning the implementation of the overall management measures and these programs is located in [Appendix 1](#).

BMP/Activity	Employee Education and Outreach
Measurable Goal	Educate all new employees in the identified job category within 6 months of assignment and; Educate all existing employees in the identified job category once per permit period.
Primary Contact	Stormwater Coordinator
OCR	Public Works and Parks Departments
Management Measure	Address awareness of water quality impacts from daily operations, pollution prevention and good housekeeping and awareness of identifying and reporting illicit connections/discharges, sanitary sewer diversions, seepages or spills, etc.
Reporting Requirements	Report how many new employees in the identified job category not trained within 6 months of assignment and; Report how many existing employees in an identified job category were not trained within the permit term.

Public Involvement/Participation The Permit requires the City of Bartlett to “implement a program for public involvement and participation as a component of the stormwater management program. *The objective is to promote, publicize, and facilitate citizen's participation in the development and implementation of the stormwater management program*”. The program is to be designed to reach two major audiences, the general public and the commercial and industrial community. The program must include the following at a minimum:

1. Specific public involvement/participation activities that are designed to meet the management measures.
2. Schedule/calendar of events for the year.
3. Methodology to evaluate components to assess overall effectiveness and the need for improvement.
4. A mechanism for citizen reporting of illegal spillage, dumping, or otherwise illicit disposal of materials into the MS4.
5. Publicity plan for public involvement and participation opportunities by methods designed to reach the intended audience.
6. Opportunities for the public to participate in decision-making processes for developing, implementing and updating the stormwater management program.
7. Mechanisms, procedures and processes for public access to information on new development and redevelopment projects and receiving and considering comments from the public on those new developments and redevelopments.
8. A public notice process for program modifications.
9. Track and maintain records of public involvement and participation opportunities.

SECTION 6 – STORMWATER MANAGEMENT PROGRAM

Public Involvement/Participation. Section 4.2.2 of the permit provides the management measures, goals and reporting requirements for the general requirements for this program element. Detailed information concerning the implementation of the overall management measures and these programs is located in [Appendix 1](#).

1.

BMP/Activity	Public Involvement/Participation.
Measurable Goal	Make written description of Stormwater Management Program available either on the MS4's website or through public records review process.
Primary Contact	Stormwater Coordinator
Management measure	Provide public access to the Stormwater Management Program records, including written description of the Stormwater Management Program, available to the public at reasonable times during regular business hours.
Reporting Requirements	Provide the web address for the Stormwater Management Program or a brief description of the public records request process.

2.

BMP/Activity	Public Involvement/Participation.
Measurable Goal	Prior to second annual report, complete the formal public notice process for the entire Stormwater Management Program, including response to comments, For subsequent years, provide formal notice for major changes
Primary Contact	Stormwater Coordinator
Management measure	Develop and implement a formal public notice process including documenting and responding to public comments and a process for identifying major modifications that require formal public notice.
Reporting Requirements	For years when the program requires formal public notice, a copy of the formal notice and response to comments

3.

BMP/Activity	Public Involvement/Participation.
Measurable Goal	Information for 100% of all construction site projects is accessible to the public. 100% of all comments from the public are considered.
Primary Contact	Planning Department
Management measure	Mechanisms, procedures, and processes for public access to information on projects and receiving and considering comments from the public on those projects.
Reporting Requirements	Is information for all construction site projects accessible to the public? Number of comments received. Are all comments from the public considered?

4.

BMP/Activity	Public Involvement/Participation.
Measurable Goal	Develop and implement a public reporting system to facilitate and track public reports of spills, discharges, and dumping into the storm sewer system.
Primary Contact	Code Enforcement
Management measure	Encourage and promote citizen reporting of illegal spillage, dumping or otherwise disposal of material into the MS4.
Reporting Requirements	Number of reports received from the public.

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General Public. Section 4.2.2.1 of the permit provides the management measures, goals and reporting requirements for the general public audience of this program element. Detailed information concerning the implementation of the overall management measures and these programs is located in [Appendix 1](#).

BMP/Activity	General Public
Measurable Goal	Conduct or sponsor six (6) activities each reporting year that addresses each of the management measures
Primary Contact	Stormwater Coordinator
Management measure	Conduct activities to address pollution prevention; impacts on water quality or local stormwater management issues; storage, use and disposal of household hazardous waste, automotive-related fluids, pesticides, herbicides and fertilizer use; and identifying and reporting procedures for illicit connections/discharges, sanitary sewer seepage, spills, etc.
Reporting Requirements	Total number of activities conducted

To help achieve these management measures, the City of Bartlett uses several activities/BMPs. The following summarizes those activities/BMPs. Detailed information concerning the implementation of the overall management measures and these programs is located in [Appendix 1](#).

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| BMP/Activity | City of Bartlett Official website. |
| Measurable Goal | Maintain official website relevant to changing federal, state and local regulations or laws as well as permit requirements. |
| Primary Contact | Stormwater Coordinator |
| Pollutants of Concern | Arsenic, sediments, nutrients, trash and debris, pathogens, pesticides, petroleum products, illicit discharges, illegal dumping. |
| Management measure | Pollution prevention; impacts on water quality or local stormwater management issues; storage, use and disposal of household hazardous waste, automotive-related fluids, pesticides, herbicides and fertilizer use; and identifying and reporting procedures for illicit connections/discharges, sanitary sewer seepage, spills, etc. |
| Monitoring Requirements | Review as part of the Storm Water Management Program's annual review and update accordingly. |
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| BMP/Activity | Stormwater Education Booth. |
| Measurable Goal | Operate a stormwater education booth at the Bartlett Fall Festival. |
| Primary Contact | Stormwater Coordinator |
| Pollutants of Concern | Sediments, nutrients, trash and debris, pathogens, pesticides, petroleum products, illicit discharges, illegal dumping. |
| Management measure | Pollution prevention; impacts on water quality or local stormwater management issues; storage, use and disposal of household hazardous waste, automotive-related fluids, pesticides, herbicides and fertilizer use; and identifying and reporting procedures for illicit connections/discharges, sanitary sewer seepage, spills, etc. |
| Monitoring Requirements | Document Stormwater Education Booth use to include description, dates, management measures addressed, specifically targeted audience and the approximate number of that audience reached. |

SECTION 6 – STORMWATER MANAGEMENT PROGRAM

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| 3. | BMP/Activity | Preventing Stormwater Pollution General Education PowerPoint™ Presentation. |
| | Measurable Goal | Make available annually to neighborhood associations or other groups when requested. |
| | Primary Contact | Stormwater Coordinator |
| | Pollutants of Concern | Sediments, nutrients, pathogens, trash and debris, pesticides, petroleum products. |
| | Management measure | Pollution prevention; impacts on water quality or local stormwater management issues; storage, use and disposal of household hazardous waste, automotive-related fluids, pesticides, herbicides and fertilizer use. |
| | Monitoring Requirements | Document presentations presented to include description, dates, management measures addressed, specifically targeted audience and the approximate number of that audience reached. |
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| 4. | BMP/Activity | Tennessee Homeowners' Guide to Cleaner Water Education Brochure. |
| | Measurable Goal | Make available to the public 100 brochures each year |
| | Primary Contact | Stormwater Coordinator |
| | Pollutants of Concern | Sediments, nutrients, pathogens, pesticides, petroleum products, illegal dumping. |
| | Management measure | Pollution prevention; impacts on water quality or local stormwater management issues; storage, use and disposal of household hazardous waste, automotive-related fluids, pesticides, herbicides and fertilizer use. |
| | Monitoring Requirements | Document number of brochures distributed to include description, dates, management measures addressed, specifically targeted audience and the approximate number of that audience reached. |
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| 5. | BMP/Activity | Pet Waste and Water Quality Brochure |
| | Measurable Goal | Make available to the public 100 brochures each year |
| | Primary Contact | Stormwater Coordinator |
| | Pollutants of Concern | Pathogens |
| | Management measure | Pollution prevention; impacts on water quality or local stormwater management issues. |
| | Monitoring Requirements | Document number of brochures distributed to include description, dates, management measures addressed, specifically targeted audience and the approximate number of that audience reached. |
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| 6. | BMP/Activity | Clean Water – Everybody's Business Bookmark |
| | Measurable Goal | Make available to the public 100 bookmarks each year |
| | Primary Contact | Stormwater Coordinator |
| | Pollutants of Concern | Sediments, nutrients, pathogens, pesticides, petroleum products, illegal dumping. |
| | Management measure | Pollution prevention; impacts on water quality or local stormwater management issues; storage, use and disposal of household hazardous waste, automotive-related fluids, pesticides, herbicides and fertilizer use. |
| | Monitoring Requirements | Document number of bookmarks distributed to include description, dates, management measures addressed, specifically targeted audience and the approximate number of that audience reached. |

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7.	BMP/Activity	City of Bartlett Facebook page.
	Measurable Goal	Post at least one public service announcement (PSA) per reporting period.
	Primary Contact	Stormwater Coordinator
	Pollutants of Concern	Varies depending upon PSA. May include one or more of the following: sediments, nutrients, trash and debris, pathogens, pesticides, petroleum products, illicit discharges, illegal dumping.
	Management measure	Varies depending upon PSA. May include one or more of the following: Pollution prevention; impacts on water quality or local stormwater management issues; storage, use and disposal of household hazardous waste, automotive-related fluids, pesticides, herbicides and fertilizer use; and identifying and reporting procedures for illicit connections/discharges, sanitary sewer seepage, spills, etc.
8.	Monitoring Requirements	Report number of PSAs made to include description, dates, management measures addressed, specifically targeted audience and the approximate number of that audience reached.
	BMP/Activity	Tennessee Stormwater Association (TNSA) Social Media Campaign.
	Measurable Goal	Participate in the program at the per capita funding level as invoiced by the TNSA. (Monetary sponsor)
	Primary Contact	Stormwater Coordinator
	Pollutants of Concern	Varies depending upon PSA. May include one or more of the following: sediments, nutrients, trash and debris, pathogens, pesticides, petroleum products, illicit discharges, illegal dumping.
9.	Management measure	Varies depending upon PSA. May include one or more of the following: Pollution prevention; impacts on water quality or local stormwater management issues; storage, use and disposal of household hazardous waste, automotive-related fluids, pesticides, herbicides and fertilizer use; and identifying and reporting procedures for illicit connections/discharges, sanitary sewer seepage, spills, etc.
	Monitoring Requirements	Maintain copy of report provided by the TNSA. Report number of PSAs made to include description, dates, management measures addressed, specifically targeted audience and the approximate number of that audience reached.
	BMP/Activity	Detention Basin Maintenance Brochure.
	Measurable Goal	Distribute brochure on an as needed basis.
	Primary Contact	Stormwater Coordinator
	Pollutants of Concern	Sediments, nutrients, trash and debris, pathogens, pesticides, petroleum products, illicit discharges, illegal dumping.
	Management measure	Pollution prevention; impacts on water quality or local stormwater management issues.
	Monitoring Requirements	Document number of brochures distributed to include description, dates, management measures addressed, specifically targeted audience and the approximate number of that audience reached.

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10.	BMP/Activity	Automotive Maintenance and Care Brochure.
	Measurable Goal	Distribute brochure on an as needed basis.
	Primary Contact	Stormwater Coordinator
	Pollutants of Concern	Petroleum products, illicit discharges, illegal dumping.
	Management measure	Pollution prevention; impacts on water quality or local stormwater management issues; storage, use and disposal of household hazardous waste, automotive-related fluids, pesticides, herbicides and fertilizer use.
	Monitoring Requirements	Document number of brochures distributed to include description, dates, management measures addressed, specifically targeted audience and the approximate number of that audience reached.
11.	BMP/Activity	Illicit Discharge and Elimination Handout.
	Measurable Goal	Distribute handouts at homeowner association meetings and the Bartlett Fall Festival.
	Primary Contact	Stormwater Coordinator
	Pollutants of Concern	Sediments, nutrients, trash and debris, pathogens, pesticides, petroleum products, illicit discharges, illegal dumping.
	Management measure	Pollution prevention; impacts on water quality or local stormwater management issues; and identifying and reporting procedures for illicit connections/discharges, sanitary sewer seepage, spills, etc.
	Monitoring Requirements	Document number of handouts distributed to include description, dates, management measures addressed, specifically targeted audience and the approximate number of that audience reached.
12.	BMP/Activity	IDDE – A Grate Concern Video.
	Measurable Goal	Post at least once per reporting period.
	Primary Contact	Stormwater Coordinator
	Pollutants of Concern	Sediments, nutrients, trash and debris, pathogens, pesticides, petroleum products, illicit discharges, illegal dumping.
	Management measure	Pollution prevention; impacts on water quality or local stormwater management issues; and identifying and reporting procedures for illicit connections/discharges, sanitary sewer seepage, spills, etc.
	Monitoring Requirements	Document numbers of postings made to include description, dates, management measures addressed, specifically targeted audience and the approximate number of that audience reached.

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13.	BMP/Activity	Stormwater Pollution Found in Your Neighborhood Door Tags.
	Measurable Goal	Distribute to each home within a block of a reported illicit discharge where the discharger cannot be identified.
	Primary Contact	Stormwater Coordinator
	Pollutants of Concern	Sediments, nutrients, pathogens, trash and debris, pesticides, petroleum products.
	Management measure	Pollution prevention; impacts on water quality or local stormwater management issues; and identifying and reporting procedures for illicit connections/discharges, sanitary sewer seepage, spills, etc.
	Monitoring Requirements	Document number of door tags distributed to include description, dates, management measures addressed, specifically targeted audience and the approximate number of that audience reached.
14.	BMP/Activity	Keep Bartlett Beautiful.
	Measurable Goal	Perform one activity per reporting period.
	Primary Contact	Parks Department
	Pollutants of Concern	Trash and debris, pathogens, illegal dumping.
	Management measure	Pollution prevention; impacts on water quality or local stormwater management issues.
	Monitoring Requirements	Document numbers of events to include description, dates, management measures addressed, specifically targeted audience and the approximate number of that audience reached.

Commercial and development community. Section 4.2.2.2 of the permit provides the management measures, goals and reporting requirements for the commercial and development community audience of this program element. Detailed information concerning the implementation of the overall management measures and these programs is located in [Appendix 1](#).

BMP/Activity	Commercial and Development Community
Measurable Goal	Conduct or sponsor two (2) activities each reporting year that addresses each of the management measures
Primary Contact	Stormwater Coordinator
Management measure	Conduct activities to address pollution prevention and impacts on water quality or local stormwater management issues.
Reporting Requirements	Total number of activities conducted

To help achieve these management measures, the City of Bartlett uses several BMPs/activities. The following summarizes those BMPs/activities. Detailed information concerning the implementation of the overall management measures and these programs is located in [Appendix 1](#).

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1.	BMP/Activity	City of Bartlett Official website.
	Measurable Goal	Maintain official website relevant to changing federal, state and local regulations or laws as well as permit requirements.
	Primary Contact	Stormwater Coordinator
	Pollutants of Concern	Arsenic, sediments, nutrients, trash and debris, pathogens, pesticides, petroleum products, illicit discharges, illegal dumping.
	Management measure	Pollution prevention and impacts on water quality or local stormwater management issues.
	Monitoring Requirements	Review as part of the Storm Water Management Program's annual review and update accordingly.
2.	BMP/Activity	Pre-application meetings
	Measurable Goal	Accomplish meeting when requested
	Primary Contact	Planning Department
	Management Measure	Pollution prevention and impacts on water quality or local stormwater management issues.
	Monitoring Requirements	Document number of activities conducted to include description, date, management measures addressed, specifically targeted audience and approximate number of that audience reached.
3.	BMP/Activity	Mid-South Clean Water Days
	Measurable Goal	Participate in the Mid-South Clean Water Days either monetarily or by setting up a stormwater education booth.
	Primary Contact	Stormwater Coordinator
	Management Measure	Varies but may include pollution prevention and impacts on water quality or local stormwater management issues.
	Monitoring Requirements	Document number of activities conducted to include description, date, management measures addressed, specifically targeted audience and approximate number of that audience reached.
4.	BMP/Activity	Engineering and Development Communities mailing list.
	Measurable Goal	Use mailing list on an as needed basis.
	Primary Contact	Stormwater Coordinator
	Management Measure	Varies but may include pollution prevention and impacts on water quality or local stormwater management issues.
	Monitoring Requirements	Document number of activities conducted to include description, date, management measures addressed, specifically targeted audience and approximate number of that audience reached.

Illicit Discharge Detection and Elimination Section 4.2.3 of the Permit requires the City of Bartlett to develop, implement and enforce a program to detect and eliminate illicit discharges into the storm sewer system. This program must include the following at a minimum:

1. A storm sewer system map;
2. Effectively prohibit, through ordinance, non-stormwater discharges into the storm sewer system and implement appropriate enforcement response;
3. Develop and implement a program to detect, investigate and address non-stormwater discharges to the storm sewer system;
4. Inform public employees, businesses and the general public of hazards associated with illegal discharges; and
5. Develop a mechanism for the public to report suspected illicit discharges.

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The City of Bartlett has developed several BMPs/activities to meet this minimum control measure. The following summarizes those BMPs/activities. Detailed information concerning the implementation of these programs is located in [Appendix 1](#).

1.

BMP/Activity	Storm sewer system map
Measurable Goal	Continue to update as new elements are identified
Primary Contact	GIS Manager
Management Measure	Map contains all information from permit § 4.2.3.1
Reporting Requirement	Provide a copy of the system map on annual report.
2.

BMP/Activity	Stormwater Ordinance
Measurable Goal	Update ordinance as changes occur to federal and state laws and regulations.
Primary Contact	Stormwater Coordinator
Management Measure	Effectively prohibit non-stormwater discharges into the storm sewer system and implement appropriate ERPs
Monitoring Requirement	Review as part of the Stormwater Management Program's annual review and update accordingly.
3.

BMP/Activity	Dry weather field monitoring (outfall inspections).
Measurable Goal	Perform scheduled inspections per permit year.
Primary Contact	Stormwater Coordinator
Management Measure	Develop and implement a program to detect, investigate and address non-stormwater discharges, including illegal dumping into the system. See measurable goal for ERP for additional requirements.
Monitoring Requirement	Review as part of the Stormwater Management Program's annual review and adjust schedule accordingly to ensure 100% outfall inspection in 5-year cycle. See monitoring requirement for ERP for additional requirements.
4.

BMP/Activity	Enforcement Response Plan.
Measurable Goal	Track all potential illicit discharges by reporting source; Initiate 100% investigations within 7 days of receipt of report; Initiate 100% initial enforcement actions within 7 days of confirmed illicit discharge; Review 100% of corrective action plans, if required
Primary Contact	Stormwater Coordinator
Management Measure	Illicit discharge reporting and investigation
Reporting Requirement	Review as part of the Stormwater Management Program's annual review and update accordingly. Provide number of potential illicit discharges reported by category, if responded to within 7 days, number of actual illicit discharges, if enforcement action initiated within 7 days, and, if applicable, number of corrective action plans received.
5.

BMP/Activity	Public Information and Education Plan.
Measurable Goal	As specified for Public Education and Outreach section above.
Primary Contact	Stormwater Coordinator
Management Measure	Educate public employees, businesses and general public concerning the hazards and damage to water quality associated with illegal dumping and connections to the storm sewer and improper disposal of waster
Reporting Requirement	As specified for Public Education and Outreach section above.

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6.	BMP/Activity	Magnet Request System.
	Measurable Goal	Respond to complaints/reports of illicit discharges within 7 days.
	Primary Contact	Stormwater Coordinator
	Management Measure	Develop a mechanism for the public to report suspected illicit discharges
	Reporting Requirement	See BMP 4 above

Construction Site Stormwater Runoff Control The Permit requires the City of Bartlett to *develop, implement and enforce a construction site stormwater runoff pollutant control program.* Additionally, the program must address pollutants in stormwater runoff from construction activities that result in a land disturbance of one acre or more as well as land disturbances of less than one acre when part of a larger common plan of development or sale. The program must include the following at a minimum:

1. An ordinance to require erosion prevention and sediment controls (EPSCs) as well as sanctions to enforce compliance;
2. Requirements for construction site operators to implement appropriate EPSC best management practices (BMPs);
3. Requirements for design storm consistent with those of the current Tennessee Construction General Permit;
4. An inventory of actively permitted public and private construction sites;
5. Requirements for construction site operators to control waste;
6. Specific procedures for construction site plan review and approval;
7. Mechanisms or plans for public access to information on new development and redevelopment projects;
8. Procedures for inspectors to evaluate and document construction site compliance;
9. Require inspectors to be level 1 certified under the Tennessee Fundamentals of Erosion Prevention and Sediment Control; and
10. Requirements for priority construction sites.

The City of Bartlett has developed several BMPs/activities to meet this minimum control measure. The following summarizes those BMPs/activities. Detailed information concerning the implementation of these programs is located in [Appendix 1](#).

1.	BMP/Activity	Stormwater ordinance.
	Primary Contact	Stormwater Coordinator
	Management Measure	Ordinance required being consistent with the currently effective CGP.
	Measurable Goal	Update ordinance within 18 months of the effective date of a Tennessee Construction General Permit (CGP).
	Reporting Requirement	Identify if the regulatory mechanism has been updated to be consistent with CGP and are effective and implemented within 18 months of the effective date of subsequent CGPs.

2.	BMP/Activity	Stormwater ordinance.
	Primary Contact	Stormwater Coordinator
	Management Measure	Require construction site operators to implement appropriate EPSC BMPs
	Measurable Goal	Update ordinance within 18 months of the effective date of a Tennessee Construction General Permit (CGP).
	Reporting Requirement	Identify if the regulatory mechanism has been updated to be consistent with CGP and are effective and implemented within 18 months of the effective date of subsequent CGPs.

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3.

BMP/Activity	Stormwater ordinance.
Primary Contact	Stormwater Coordinator
Management Measure	Require design storm be consistent with those of the current CGP.
Measurable Goal	Update ordinance within 18 months of the effective date of a Tennessee Construction General Permit (CGP).
Reporting Requirement	Identify if the regulatory mechanism has been updated to be consistent with CGP and are effective and implemented within 18 months of the effective date of subsequent CGPs.
4.

BMP/Activity	NPDES Permit Spreadsheet.
Primary Contact	Stormwater Coordinator
Management Measure	Maintain an inventory of actively permitted public and private construction sites that result in a total land disturbance as defined in subpart 4.2.4.d. of the permit.
Measurable Goal	Maintain an up-to-date inventory with all information required by subpart 4.2.4.d. of the permit.
Reporting Requirement	Total number of active construction activities and total number of active non-priority construction activities with incomplete inventory information.
5.

BMP/Activity	Stormwater ordinance.
Primary Contact	Stormwater Coordinator
Management Measure	Require construction site operators to control waste.
Measurable Goal	Update ordinance within 18 months of the effective date of a Tennessee Construction General Permit (CGP).
Reporting Requirement	Identify if the regulatory mechanism has been updated to be consistent with CGP and are effective and implemented within 18 months of the effective date of subsequent CGPs.
6.

BMP/Activity	Plan review standard operating procedure (SOP).
Primary Contact	Engineering Department, Land Development Engineer
Management Measure	Construction site plan review and approval
Measurable Goal	Establish policies and/or procedures for review and approval of all plans and review 100% of all new development and redevelopment projects.
Reporting Requirement	Total number of new development and redevelopment projects reviewed and were all new development and redevelopment projects reviewed.
7.

BMP/Activity	Planning Commission Meeting
Primary Contact	Planning Department
Management measure	Mechanisms, procedures, and processes for public access to information on projects and receiving and considering comments from the public on those projects.
Measurable Goal	Information for 100% of all construction site projects is accessible to the public. 100% of all comments from the public are considered.
Reporting Requirements	Is information for all construction site projects accessible to the public? Number of comments received. Are all comments from the public considered?

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| 8. | BMP/Activity | Construction site inspections. |
| | Primary Contact | Stormwater Coordinator |
| | Management measure | Procedures for inspectors to evaluate and document construction site compliance. |
| | Measurable Goal | Inspect a minimum of 10% of active non-priority construction sites |
| | Reporting Requirement | Total number of active non-priority construction activities and were the inspections conducted IAW the Stormwater Management Program requirements. |
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| 9. | BMP/Activity | Construction inspector training. |
| | Primary Contact | Stormwater Coordinator |
| | Management measure | Require all inspectors who conduct inspections of construction sites maintain certification under the Tennessee Fundamentals of Erosion Prevention and Sediment Control, Level 1 |
| | Measurable Goal | 100% of EPSC inspectors are Level 1 certified under the Tennessee Fundamentals of Erosion Prevention and Sediment Control. |
| | Monitoring Requirement | Track certifications. Notify Department heads when training is due. |
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| 10. | BMP/Activity | Preconstruction Meetings. |
| | Primary Contact | Land Development Engineer |
| | Management measure | Preconstruction meetings with construction site operators for priority construction activities. |
| | Measurable Goal | Conduct preconstruction meetings of 100% of priority construction activities |
| | Reporting Requirement | Total number of priority construction activities and did all priority construction activities have a preconstruction meeting. |
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| 11. | BMP/Activity | Construction site inspections. |
| | Primary Contact | Stormwater Coordinator |
| | Management measure | Inspections of priority construction sites at least once per calendar month |
| | Measurable Goal | Inspect 100% of all priority construction activities at least once per calendar month. |
| | Reporting Requirement | Were all priority construction activities inspected at least once per calendar month? |

Post-Construction/Permanent Stormwater Management in New Development and Redevelopment Under a settlement agreement with TDEC, this portion of the permit is not applicable to the City of Bartlett. Implementation requirements, updates or changes to this section shall not occur pending issuance and settlement of any appeal of a Phase 1 permit for the City of Memphis. The Permit requires the City of Bartlett to develop and implement a permanent stormwater management program to reduce pollutants in stormwater discharges through management practices, control techniques and systems design and engineering practices implemented to the maximum extent practicable (MEP). The Permit further requires that the program include:

1. Plans review, site inspections and a means to ensure that permanent stormwater control measures (SCMs) are adequately operated and maintained;

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2. Develop and implement an ordinance to address permanent stormwater management in new development and redevelopment projects;
3. Require new development and redevelopment projects be designed to reduce pollutants to the MEP as set forth in the permit.
4. Require SCMs to be designed to provide full treatment capacity within 72 hours following the end of the preceding rain event for the life of the new development or redevelopment project;
5. Develop and implement a set of requirements to establish, protect and maintain permanent water quality riparian buffers; and
6. Implement and maintain a system to inventory and track the status of all public and private SCMs installed on new development and redevelopment projects.

The City of Bartlett has developed several BMPs/activities to meet this minimum control measure. The following summarizes those BMPs/activities. Detailed information concerning the implementation of these programs is located in [Appendix 1](#).

1.

BMP/Activity	Plan review SOP.
Primary Contact	Engineering Department, Land Development Engineer
Management measure	Develop, implement and enforce policies and procedures for the submittal and review of plans.
Measurable Goal	Establish policies and/or procedures for review and approval of all plans and review all new development and redevelopment projects.
Reporting Requirement	Total number of all new development and redevelopment projects reviewed and the number of new development and redevelopment projects reviewed in accordance with established policy and procedures

2.

BMP/Activity	Stormwater ordinance.
Primary Contact	Stormwater Coordinator
Management measure	Develop and implement, and modify as necessary, an ordinance to address permanent stormwater management at new development and redevelopment projects.
Measurable Goal	Update ordinance within 18 months of the effective date of a Tennessee Construction General Permit (CGP). Update as required for subsequent Small MS4 permits
Reporting Requirement	Identify if the regulatory mechanism has been updated to be consistent with CGP and are effective and implemented within 18 months of the effective date of subsequent CGPs.

3.

BMP/Activity	Stormwater ordinance.
Primary Contact	Stormwater Coordinator
Management measure	Require new development and redevelopment projects be designed to reduce pollutants to the MEP as set forth in the permit.
Measurable Goal	Update ordinance within 18 months of the effective date of a Tennessee Construction General Permit (CGP). Update as required for subsequent Small MS4 permits
Reporting Requirement	Identify if the regulatory mechanism has been updated to be consistent with CGP and are effective and implemented within 18 months of the effective date of subsequent CGPs.

SECTION 6 – STORMWATER MANAGEMENT PROGRAM

- | | | |
|----|-----------------------|---|
| 4. | BMP/Activity | Stormwater ordinance |
| | Primary Contact | Stormwater Coordinator |
| | Management measure | Require SCMs to be designed to provide full treatment capacity within 72 hours following the end of the preceding rain event for the life of the new development or redevelopment project |
| | Measurable Goal | Update ordinance within 18 months of the effective date of a Tennessee Construction General Permit (CGP). Update as required for subsequent Small MS4 permits |
| | Reporting Requirement | Identify if the regulatory mechanism has been updated to be consistent with CGP and are effective and implemented within 18 months of the effective date of subsequent CGPs. |
-
- | | | |
|----|-----------------------|---|
| 5. | BMP/Activity | Stormwater ordinance |
| | Primary Contact | Stormwater Coordinator |
| | Management measure | Develop and implement a set of requirements to establish, protect and maintain permanent water quality riparian buffers |
| | Measurable Goal | 100% of projects must have the buffer as identified in subpart 4.2.5.4 of the Permit |
| | Reporting Requirement | Did all the projects approved meet the buffer requirements of subpart 4.2.5.4. of the permit? |
-
- | | | |
|----|-----------------------|---|
| 6. | BMP/Activity | SCM spreadsheet |
| | Primary Contact | Stormwater Coordinator |
| | Management measure | Implement and maintain a system to inventory and track the status of all public and private SCMs |
| | Measurable Goal | Make the system available to the TDEC or members of the public upon request. 100% of all SCMs must be included in the system with complete information. |
| | Reporting Requirement | Total number of request for inventory. Are all SCMs in the inventory tracking system? Do all SCMs in the system have complete information? |
-
- | | | |
|----|-----------------------|---|
| 7. | BMP/Activity | SCM post-installation inspection |
| | Primary Contact | Stormwater Coordinator |
| | Management measure | Develop, implement and enforce policies and procedures for SCM installation verification |
| | Measurable Goal | Verify 100% of SCMs are installed per design specifications in accordance with approved plans within 90 days of installation. |
| | Reporting Requirement | Total number of sites verified. Were all SCMs installed per design specifications in accordance with approved plans within 90 days of installation? |
-
- | | | |
|----|-----------------------|--|
| 8. | BMP/Activity | Stormwater ordinance |
| | Primary Contact | Stormwater Coordinator |
| | Management measure | Establish and maintain adequate legal authority assigning SCM maintenance responsibility and personnel access to the SCM and provide enforcement action. |
| | Measurable Goal | Permittee has legal authority to access SCMs and assigned maintenance responsibility for 100% of SCMs and has legal authority for enforcement for 100% of SCMs that have not been properly maintained. |
| | Reporting Requirement | Total number of request for inventory. Are all SCMs in the inventory tracking system? Do all SCMs in the system have complete information? |

SECTION 6 – STORMWATER MANAGEMENT PROGRAM

Pollution Prevention/Good Housekeeping for Municipal Operations The Permit requires the City of Bartlett to *develop and implement an operation and maintenance program that has the ultimate goal of preventing or reducing pollutant runoff from municipal operations*. The program must include:

1. An employee training program for employees responsible for municipal operations at facilities that handle, generate and/or store materials which constitute a potential pollutant of concern for MS4s.
2. An operations and maintenance (O&M) program detailing the activities and procedures implemented to maintain the MS4 infrastructure to reduce the discharge of pollutants.

The City of Bartlett has developed several BMPs/activities to meet this minimum control measure. The following summarizes those BMPs/activities. Detailed information concerning the implementation of these programs is located in [Appendix 1](#).

1.	BMP/Activity	Municipal Employee Training Program.
	Primary Contact	Stormwater Coordinator
	OCR	Public Works and Parks Departments
	Management measure	Address awareness of water quality impacts from daily operations, pollution prevention and good housekeeping and awareness of identifying and reporting illicit connections/discharges, sanitary sewer diversions, seepages or spills, etc.
	Measurable Goal	Educate all new employees in the identified job category within 6 months of assignment and; Educate all existing employees in the identified job category once per permit period.
	Reporting Requirement	Report how many new employees in the identified job category not trained within 6 months of assignment and; Report how many existing employees in an identified job category were not trained within the permit term.
2.	BMP/Activity	Facilities Operations Plan.
	Primary Contact	Stormwater Coordinator
	OCR	Public Works and Parks Departments
	Management measure	Develop and implement an O&M facility plan
	Measurable Goal	All applicable municipal operations must have an O&M facility plan.
	Reporting Requirement	Number of municipal operations facilities and do all municipal operations facilities have an O&M facility plan?
3.	BMP/Activity	Facility site inspections.
	Primary Contact	Stormwater Coordinator
	OCR	Public Works and Parks Departments
	Management measure	Facility site inspections
	Measurable Goal	Conduct a facility site inspection at all municipal operations facilities at least once every 12 months.
	Reporting Requirement	Number of municipal operations facilities not inspected in the previous 12 months.

SECTION 6 – STORMWATER MANAGEMENT PROGRAM

QUALIFYING TRIBE, STATE or LOCAL PROGRAM (QLP)

A QLP is a MS4 Stormwater Management Program that has been formally approved by the division as having met QLP minimum program requirements related to stormwater discharges associated with construction activity. The City of Bartlett does not participate in this program.

STORMWATER MANAGEMENT PROGRAM MODIFICATION

Section 4.4 of the Permit allows the MS4 to modify the Stormwater Management Program during the life of the permit. There are two types of modifications:

1. Minor modifications may add components to the program but not subtract or replace components controls or requirements of the Stormwater Management Program. A description of the modification is to be included in the annual report but the modification doesn't require formal public notice. Some examples include:
 - a. Correction of typographical errors;
 - b. Increases in monitoring;
 - c. Removing an outfall when the discharge from that outlet is terminated;
 - d. Replacing an ineffective or infeasible BMP or SCM which is specifically identified in the Stormwater Management Program along with an alternate BMP or SCM.
2. Major modifications are all other types of modifications and require formal public notice. TDEC-DWR is to be included in the distribution list.

1.	BMP/Activity	Program modifications.
	Primary Contact	Stormwater Coordinator
	Management measure	Identify modifications as minor or major and report as required by the Permit
	Measurable Goal	Report all minor and major modifications to the Stormwater Management Program as required.
	Reporting Requirement	Were any changes made to each program element? Description of modifications made.

The City of Bartlett must implement the Stormwater Management Program in all new areas annexed to the city as expeditiously as practicable, but not later than one year following annexation.

ENFORCEMENT

Enforcement Response Plan

The permit requires the MS4 to *develop and implement an enforcement response plan (ERP)*. The City must have the legal ability to employ progressive enforcement actions as described below and escalate responses where necessary:

1. Verbal warnings – at a minimum, should be as specific as possible to the nature of the violation and documented;
2. Written notice of violation – must stipulate the nature of the violation and the required corrective action, with deadlines for taking such actions.
3. Citations or administrative orders – indicate when monetary penalties will be assessed and may include civil and administrative penalties.
4. Stop work orders – requires activities at facilities to be halted except for those activities directed at cleaning up, abating discharges and installing appropriate control measures.

SECTION 6 – STORMWATER MANAGEMENT PROGRAM

5. Withholding plan approvals or other authorizations – the ERP may address how the approval process affecting a non-compliance facility's ability to discharge to the MS4 can be used to abate a violation.
6. Civil penalties – the permittee must have the authority to assess the maximum penalties per day for each day of violation as specified in TCA 68-221-1106.
7. Additional measures – the permittee may also use other escalated measures provided under local legal authorities.

The Enforcement Response Plan is described in [Appendix 1](#) and the City's stormwater ordinance.

NPDES Permit Referrals

If the City becomes aware that a construction activity or an industrial activity is discharging to the MS4 in violation of an NPDES permit or does not have the required permit, the City shall notify the Memphis Environmental Field Office of the situation as soon as possible. The City may also pursue enforcement actions under its illicit discharge program.

If the City has not been able to bring an NPDES permitted discharge into compliance through enforcement actions and protocols then the City must notify the Memphis Environmental Field Office.

Enforcement Tracking

The City must track instances of non-compliance. The documentation must include:

1. Name of owner/operator
2. Location of facility
3. Description of violation
4. Required schedule for returning to compliance
5. Description of enforcement response used
6. Accompanying documentation of enforcement response
7. Any referrals
8. Date violation was resolved

Enforcement tracking is further described in [Appendix 1](#).

Requirements for Chronic Violators

The City must identify chronic violators in order to reduce the rate of non-compliance. The City's stormwater ordinance defines chronic violators and outlines how the City plans to apply progressive enforcement to achieve compliance.

Annual Report Requirements

1.	BMP/Activity	Enforcement.
	Primary Contact	Stormwater Coordinator
	Management measure	Develop and implement an enforcement response plan
	Measurable Goal	Track violations and apply progressive enforcement actions to achieve compliance.
	Reporting Requirement	Report number of enforcement actions taken for each enforcement action type.

SECTION 6 – STORMWATER MANAGEMENT PROGRAM

STORMWATER MONITORING AND PROGRAM EVALUATION

Monitoring Program, Sampling Requirements and Reporting. The Permit requires the City to develop and implement a monitoring and assessment program that provides data and information to identify pollutant sources and aid in determining the effectiveness of the stormwater program. The Permit requires the program be designed to meet the following objectives:

- Assess compliance with the permit;
- Measure the effectiveness of the City's stormwater management program;
- Evaluate stormwater impacts to the receiving waters;
- Identify sources of specific pollutants, including nutrients, pathogens, siltation, or other parameters related to stormwater discharges from the MS4; and
- Gather data to inform program decisions and prioritization of future activities related to the protection of water quality and identify corrective actions.

The permit provides two options that the City may select from to meet these program requirements. Regardless of which option is chosen, the City *shall perform monitoring as prescribed for stream segments subject to EPA approved TMDLs for streams with unavailable parameters for nutrients, pathogens, or siltation as applicable to the MS4.* The only TMDL applicable to the City of Bartlett is a TMDL for E.coli. The monitoring prescribed by the TMDL requires *analytical monitoring of pollutants of concern (e.g., monthly) in receiving waterbodies, both upstream and downstream of MS4 discharges, over an extended period of time. In addition, intensive collection of pollutant monitoring data during the recreation season (June – September) at sufficient frequency to support calculation of the geometric mean.*

The City has elected to perform monitoring in accordance with option 2 of the Permit. Detailed information concerning the monitoring program is included in [Appendix 1](#).

The primary goal of the City's monitoring program is to identify and eliminate or reduce sources of E.coli and nutrients. Siltation and sedimentation will be monitored as part of the City's construction stormwater pollution prevention program. Table 6.2 lists the affected stream segments and what sampling will be performed for each. The City has no MS4 discharge points on the Loosahatchie River stream segments so no sampling will occur on these segments.

Stream Segment	Stream Name	E.Coli	Nutrients
TN08010209 002-0500	Buckhead Creek	X	X
TN08010210 001-0100	Harrington Creek	X	X
TN08010209 002-0700	Howard Creek	X	X
TN08010209 002-0400	Oliver Creek	X	X
TN08010210 023-0100	Unnamed Tributary to Fletcher Creek	X	N/A
TN08010209 002-1000	Loosahatchie River	N/A	N/A
TN08010209 002-2000	Loosahatchie River	N/A	N/A

Table 6.2 Streams to be Sampled

A secondary goal of the City's monitoring program is to assess the effectiveness of the City's stormwater program as it concerns addressing pollutants of concern. BMPs/activities addressing pathogens and nutrients are summarized in Table 6.3 below. Data collected will be compared to historical data and evaluated for trends and impacts to the receiving waters.

SECTION 6 – STORMWATER MANAGEMENT PROGRAM

BMP/Activity	Pollutants of Concern
Preventing Storm Water Pollution General Education PowerPoint™ Presentation	Sediments, nutrients , pathogens , trash and debris, pesticides, petroleum products
Tennessee Homeowners Guide to Cleaner Water Education Brochure	Sediments, nutrients , pathogens , pesticides, petroleum products, illegal dumping
Pet Waste and Water Quality Education Brochure	Pathogens
Clean Water – Everybody's Business Bookmark	Sediments, nutrients , pathogens , pesticides, petroleum products, illegal dumping
Storm Water Pollution Found in Your Neighborhood door tags	Sediments, nutrients , pathogens , trash and debris, pesticides, petroleum products
FYI Segments on the local cable channel	Varies upon broadcasts. May include one or more of the following: arsenic, sediments, nutrients , pathogens , trash and debris, pesticides, petroleum products, illicit discharges, illegal dumping
Tennessee Stormwater Association Social Media Campaign	Varies. May include one or more of the following: sediments, nutrients , pathogens , trash and debris, pesticides, petroleum products, illicit discharges, illegal dumping

Table 6.3 BMPs for Pathogens and Nutrients

A tertiary goal of the City's monitoring program is to provide data that can be utilized to identify and prioritize future activities related to the protection of water quality.

Additional monitoring may be required to aid in identifying the source of specific pollutants. Detailed information concerning additional monitoring is included in [Appendix 1](#).

Bacteriological stream sampling is performed in streams that have been identified in the State's 303(d) list as having unavailable parameters for pathogens (see [Table 6.2 Streams to be Sampled](#)). Stream sampling is performed utilizing methods identified in the TDEC Quality System Standard Operating Procedure for Chemical and Biological Sampling of Surface Water. At least one sample a month for 12 months will be obtained for each pathogen-impaired stream segment within a five-year period. A set of five samples within a 30 day period will be obtained for that sampling year during the months of June through September. This set of samples will replace the sample required for that month. Detailed information concerning bacteriological sampling is included in [Appendix 1](#).

Nutrient stream sampling is performed in streams that have been identified in the State's 303(d) list as having unavailable parameters for nutrients (see [Table 6.2, Streams to be Sampled](#)). Stream sampling is performed utilizing methods identified in the TDEC Quality System Standard Operating Procedure for Chemical and Biological Sampling of Surface Water. Sampling will be for total nitrogen and total phosphorous. At least one sample a month for 12 months will be obtained for each nutrient-impaired stream segment within a five-year period. A set of five samples within a 30 day period will be obtained for that sampling year during the months of June through September. This set of samples will replace the sample required for that month. At time of publication, the unnamed tributary to Fletcher Creek is not listed as having unavailable parameters for nutrients and will not be sampled. Detailed information concerning nutrient sampling is included in [Appendix 1](#).

Analytical monitoring for stream segments subject to TMDLs shall be performed as prescribed in the TMDL. As of the publication date of the SWMP, EPA approved TMDLs have only been established for E.coli for the Wolf River and the Loosahatchie River. The affected stream segments are identified in [Table 6.2 Streams to be Sampled](#). Although there are no specific monitoring requirements listed in the TMDL, sampling for E.coli as described above meets the

SECTION 6 – STORMWATER MANAGEMENT PROGRAM

suggested monitoring for E.coli. Future TMDLs will be reviewed to assess their impact on this portion of the SWMP. Detailed information concerning TMDL monitoring is included in [Appendix 1](#).

Visual Stream Surveys (VSSs) shall be performed to satisfy the objectives of evaluating stormwater impacts to the receiving waters and gather data to inform program decisions and prioritization of future activities related to the protection of water quality and identify corrective actions. VSSs will be performed at each outfall to waters of the State. Detailed information concerning the VSSs is included in [Appendix 1](#).

On November 11, 2023, the City of Bartlett was notified that the TDEC Division of Water Resources acknowledged receipt of an acceptable monitoring plan, as described in [Section 10 of Appendix 1](#). Any changes to the monitoring plan will need to be coordinated through TDEC.

Sampling Methods and Procedures The City uses the sampling methods and procedures specified in the TDEC Quality System Standard Operating Procedure for Chemical and Biological Sampling of Surface Water. The Request for Bid will require the successful bidder to use the same protocols. The VSSs shall use a modified version of the State of Maryland Department of Natural Resources visual stream assessment. Sampling methods and procedures are more fully detailed in [Appendix 1](#).

Annual Report Requirements for Monitoring Program. A summary of monitoring activities shall be included in the MS4 annual report to the TDEC. All other records shall be made available to the TDEC upon request.

BMP/Activity	Stormwater Monitoring Program.
Primary Contact	Stormwater Coordinator
Management measure	Perform monitoring in accordance with Stormwater Management Program
Measurable Goal	Perform monitoring in accordance with the approved Option 2 monitoring plan.
Reporting Requirement	Monitoring for the reporting year has been performed in accordance with Option 2; Provide a summary of monitoring results; Upload a copy of all monitoring data.

Stormwater Management Program Evaluation. The permit requires the City to conduct an annual evaluation of the Stormwater Management Program to evaluate compliance with the terms and conditions of the permit, including the effectiveness of the BMPs, components or controls of its stormwater management program and the status of achieving the measurable requirements of the permit. This annual review shall be performed in conjunction with preparing information for the annual report.

BMP/Activity	Stormwater Management Program Evaluation
Primary Contact	Stormwater Coordinator
Management measure	Conduct an annual evaluation of the current Stormwater Management Program for every reporting period
Measurable Goal	Summarize evaluation results.
Reporting Requirement	Provide a narrative description

BMP/Activity	Stormwater Management Program Evaluation
Primary Contact	Stormwater Coordinator
Management measure	Conduct an annual evaluation of the current Stormwater Management Program for every reporting period
Measurable Goal	Identify modifications or replacement of an ineffective

SECTION 6 – STORMWATER MANAGEMENT PROGRAM

	activity/control measure/component/BMP
Reporting Requirement	Provide a narrative description

BMP/Activity	Stormwater Management Program Evaluation
Primary Contact	Stormwater Coordinator
Management measure	Conduct an annual evaluation of the current Stormwater Management Program for every reporting period
Measurable Goal	Summarize the assessment results, any modifications and improvements scheduled to be implemented in the next reporting period to improve the program or remedy weaknesses.
Reporting Requirement	Provide a narrative description

BMP/Activity	Stormwater Management Program Evaluation
Primary Contact	Stormwater Coordinator
Management measure	MCM Status Determination
Measurable Goal	Indicate compliance status for each of the six MCMs and the monitoring program
Reporting Requirement	Compliant with permit requirements? If no, provide more details.

LEGAL AUTHORITY

The permit requires the City to ensure it has legal authority to reduce the discharge of pollutants to the maximum extent practicable (MEP). The legal authority may be a combination of statute, law, rule, ordinance, resolution, permit, contract, or order. That legal authority must:

- Prohibit non-stormwater discharges into the storm sewer system and implement appropriate enforcement procedures and actions;
- Require erosion and sediment controls as well as sanctions to ensure compliance;
- Address post-construction/permanent stormwater runoff from new development and redevelopment projects (**NOTE: This permit requirement has been waived by a Settlement Agreement with TDEC.**)
- Obtain remedies for noncompliance, seek injunctive relief, seek or assess penalties and enact the enforcement response plan as required by subpart 4.5 of the Permit;
- Require compliance with conditions in ordinance, permits, contract, orders, or other legal authority; and
- Conduct all inspections, surveillance, and monitoring activities necessary to determine compliance with the conditions of the Permit.

The City has established legal authority through a combination of a stormwater ordinance, a subdivision ordinance and a plan review process that includes the ability for compliance inspections and monitoring through contract documents and recorded instruments. Specifically:

- Section 14-205 of the City's stormwater ordinance prohibits non-stormwater discharges into the storm sewer system. Section 14-211 provides for enforcement response and abatement. Attachment 1 of the stormwater ordinance contains a table of initial assessments the City may impose for violations.
- Section 14-206(11) of the City's stormwater ordinance requires the appropriate erosion prevention and sediment control BMPs are in place before construction begins. Section 14-211 provides for enforcement response and abatement. Attachment 1 of the stormwater ordinance contains a table of initial assessments the City may impose for violations.
- Although a settlement agreement with TDEC waives the requirements for post-construction/permanent stormwater runoff from new development and redevelopment

SECTION 6 – STORMWATER MANAGEMENT PROGRAM

- projects, Sections 14-206 and 14-207 of the City's stormwater ordinance address this requirement.
- d. Section 14-211 addresses the possible responses the City may employ for noncompliance. This section provides the City with the ability to refer noncompliance to TDEC, provide for the implementation of administrative remedies, apply civil and administrative penalties and provide for injunctive relieve through the Shelby County General Sessions Environmental Court.
 - e. Section 14-206(11) requires compliance with applicable permit requirements, federal, state or local requirements and all applicable requirements of the ordinance.
 - f. Sections 14-207, 14-208 and 14-209 of the City's stormwater ordinance provides for the inspections, surveillance and monitoring activities as required to meet the requirements of the Permit.

Annual Report Requirements for Legal Authority.

BMP/Activity	Legal Authority
Primary Contact	Stormwater Coordinator
OCR	City Attorney
Management measure	Provide a signed solicitor's certification statement
Measurable Goal	Statement contains name of the attorney. Confirm that the City has the adequate authority to carry out the Stormwater Management Program. List the documents that give the City that authority. Specifies the document and location of the specified authorities.
Reporting Requirement	Statement required in the 2024 annual report and when modifications are made to the legal authority.

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ANNUAL REPORTING PERIOD, DUE DATE AND SIGNATORY REQUIREMENT

The City of Bartlett must submit an annual report for the period beginning July 1st and ending June 30th.

- a. The report is due no later than September 30th following the reporting period.
- b. The report must be signed by the ranking elected official for the City.
- c. The report shall be submitted electronically through MyTDECForms (<https://forms.tdec.tn.gov/>).
- d. To utilize the reporting system, the report preparer, reviewer and signatory must establish a user account with the MyTDECForms reporting system.

ANNUAL REPORTING REQUIREMENTS

Annual Report Required Information
- All reporting elements as indicated in the permit including the information noted in the “Annual Report Requirement” column of the tables in Part 4 of the permit, information noted in narrative format. - The status of compliance with permit terms and conditions; - Notice that the permittee is relying on another governmental entity to satisfy some of the permit obligations (if applicable); and - Any other data specifically requested by the Division to substantiate statements and conclusions reached in the Annual Reports.

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SECTION 8 – RETENTION, ACCESSIBILITY AND SUBMISSION OF RECORDS**RECORDS RETENTION**

The Permit requires the City to retain all records associated with the City's stormwater management program for a minimum of three years. Examples of records to be retained include but are not limited to:

- a. Records of all monitoring information including:
 1. The date, exact place and time of sampling
 2. The individual(s) who performed the sampling
 3. The date analyses were performed
 4. The individual(s) who performed the analyses
 5. The laboratory where the analyses were performed
 6. The analytical techniques or methods used
 7. The results of such analyses
- b. Stormwater Management Program documentation;
- c. Reports required by the Permit; and
- d. Records of all data used to complete the NOI and the NOT.

The City has elected to retain records that may be necessary for TDEC audit or inspection purposes for a longer period of time.

ELECTRONIC SUBMISSION OF DOCUMENTS

The Permit requires the submission of forms developed by the TDEC in order for a person to comply with certain requirements, including, but not limited to, making reports, submitting monitoring results, and applying for permit coverage. The TDEC may make these forms available electronically. Electronic submission is required when available unless waived by the TDEC.

SECTION 8 – RETENTION, ACCESSIBILITY AND SUBMISSION OF RECORDS

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Appendix 1

STORMWATER MANAGEMENT PROGRAM

Appendix 1, Stormwater Management Program, is also maintained in a separate binder labeled “Stormwater Management Program”. This binder is available for review at the City of Bartlett Department of Engineering and Utilities during normal business hours. The Program is also available for viewing and downloading at the City of Bartlett official web site:

<https://www.cityofbartlett.org/DocumentCenter/View/15066/2017-Storm-Water-Management-Program?bidId>

APPENDIX 1 – STORMWATER MANAGEMENT PROGRAM

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City of Bartlett

Shelby County, Tennessee

Stormwater Management Program



Prepared by:

City of Bartlett
Department of Engineering and Utilities
6382 Stage Road
Bartlett TN 38134-3739

John Horne, Director
David Cook, Stormwater Coordinator

September 1, 2024

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SECTION 1 – INTRODUCTION**

SECTION 1 – INTRODUCTION

AUTHORITY

The City of Bartlett Stormwater Management Program (the Program) is established as required by section four of the Tennessee National Pollutant Discharge Elimination System (NPDES) general permit for small municipal separate storm sewer systems (MS4s), referred herein as the Permit. The Program is included as an appendix to the City of Bartlett Stormwater Management Plan (SWMP or the Plan) and is designed to function independently of the SWMP. Assessment of civil penalties for ordinance violations is authorized pursuant to TCA 68-221-1106. Other documents become part of the Program by reference. Addition of components, controls, or requirements and replacement of an ineffective or infeasible best management practice (BMP) or stormwater control measures (SCMs) with an alternate BMP/SCM expected to achieve the goals of the original BMP/SCM shall be considered a minor change and are made upon approval of the Program Manager. Other changes shall be in accordance with the provisions of section 4.4 of the Permit. The Director for the Department of Engineering and Utilities and, in the event of the Director's absence or a vacancy in the office of the Director, the Deputy Director, is responsible for the overall management of the Stormwater Management Program and is referred to in this document as the Program Manager or Manager. The City's Stormwater Coordinator is responsible for the day-to-day management of the program. Other department directors shall be responsible for the implementation of policies and procedures contained in the Program within their departments. Some elements of the Program are implemented under authority of the City of Bartlett stormwater ordinance, subdivision regulation and zoning ordinance.

PURPOSE

The purposes of the Program are:

1. To reduce the discharge of pollutants to the maximum extent practicable (MEP).
2. To protect water quality.
3. To satisfy the appropriate water quality requirements of the federal Clean Water Act of 1972.
4. Implement the requirements of the Permit.

REQUIREMENTS

Section 4.1 of the Permit requires the City of Bartlett to “*develop, implement, and enforce a Stormwater Management Program as described below (Section 4 of the Permit) and according to 40 CFR §§122.30-122.37 to protect water quality and to satisfy the appropriate water quality requirements of the CWA. The Program shall include engineering methods, system design, control techniques and/or management practices appropriate for the control of pollutants of concern.*” This section of the SWMP outlines the City of Bartlett's Stormwater Management Program and the policies and procedures used to implement the minimum control measures and requirements of section 4.2 of the Permit. Where policies and procedures have yet to be developed, the Program outlines the plan to develop, implement and enforce the minimum control standards.

Further, section 4.2 of the Permit requires that the Stormwater Management Program include six minimum control measures:

1. Public education and outreach on stormwater impacts.
2. Public involvement/participation.
3. Illicit discharge detection and elimination (IDDE).
4. Construction site stormwater runoff control.

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5. Post-construction/permanent stormwater management in new development and redevelopment.
6. Pollution prevention/good housekeeping.

The activities/BMPs from one minimum control measure may apply to multiple minimum control measures. Those activities/BMPs will only be described once and cross referenced from the applicable sections.

The Permit requires all elements of the minimum control measures to be in place upon the effective date of the permit with the exception of those items listed in the table below:

Permit Requirement	Description	Implementation Date
Legal Authority e.g. Ordinance Updates	All updates to the legal authority required by changes to the Permit shall be fully implemented and adopted	As soon as possible in conjunction with the permanent stormwater legal authority (not to exceed 24 months from the effective date of the Permit). (September 1, 2024)
4.2.4	Modifications to ordinance or other regulatory mechanism for construction site runoff pollutant control program consistent with requirements of the NPDES general permit for construction stormwater runoff effective October 1, 2021.	Changes to regulatory mechanisms and implementation into the construction site runoff pollutant control program within 24 months of the effective date of the permit. (October 1, 2023)
4.2.4	Modifications to ordinance or other regulatory mechanism for construction site runoff pollutant control program consistent with requirements of any reissued NPDES general permit for construction storm water runoff with an effective date after September 30, 2026.	Changes to regulatory mechanisms and implementation into the construction site runoff pollutant control program within 18 months of the effective date of the NPDES general permit for construction stormwater runoff.
4.2.5	Implementation of permanent stormwater management program.	Either the effective date of the notice of coverage or as specified in the implementation plan (not to exceed 24 months from the effective date of the permit NOTE: This permit requirement has been waived by a Settlement Agreement with TDEC.
4.2.5.1d	Submit implementation plan for permanent stormwater management program	90 days from the effective date of the permit. NOTE: This permit requirement has been waived by a Settlement Agreement with TDEC.
4.6.1.1.2	Only required if Option 2 is selected, A proposed alternate monitoring plan must be submitted to the Nashville Central Office at Water.Permits@tn.gov 4.6.1.1.2	24 months from the Effective Date of the permit. (September 1, 2024)

Table 1 Minimum Control Measures Implementation Time-line

RESPONSIBILITIES

Section 4.1(d) of the Permit requires the Program to identify by name, job title or department those with the responsibility for implementing or coordinating the Program elements.

Office of Primary Responsibility (OPR). An OPR identified in the Stormwater Management Program has the primary responsibility for development and implementation of the Program or

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element of the Program assigned. This includes providing feedback and data to the City's Stormwater Coordinator for inclusion in the annual report to TDEC. The Department of Engineering and Utilities is tasked with the overall management of the City of Bartlett's Stormwater Management Program.

Office of Collateral Responsibility (OCR). An OCR identified in the Stormwater Management Program has the responsibility for assisting the OPR in meeting the objectives of the Program or elements of the Program. The OCR may be required to assist in development and implementation of portions of the Program or elements within their operational control and provide feedback and data to the Stormwater Coordinator for inclusion in the annual report to TDEC. OCRs, and departments not specifically listed as OPR or OCR for Program elements that must be implemented by or affect their departments, shall establish procedures to implement those portions of the Program elements and provide the required data to the City's Stormwater Coordinator for inclusion in the annual report to TDEC.

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SECTION 2 – PUBLIC EDUCATION AND OUTREACH ON STORMWATER IMPACTS

Section 2 - Public Education and Outreach on Stormwater Impacts

Section 4.2.1 of the Permit requires *“Permittees shall develop and implement an education and outreach program that includes public education and outreach on stormwater impacts as a component of the stormwater management program. The objective of this program is to reduce or eliminate behaviors and practices that cause or contribute to the impacts of stormwater discharges on water bodies and the steps the audiences can take to reduce pollutants in stormwater runoff to the maximum extent practicable. This program must be designed to reach three major audiences, (1) the public (4.2.1.1), (2) engineering and development community (4.2.1.2) and (3) employees (4.2.1.3). Some elements of this section overlap with elements of other sections of the Stormwater Management Program and will not be repeated in those sections. When applicable, those elements shall be referenced.*

2.1 Public Information and Education Plan (OPR: Engineering). The Permit requires the City of Bartlett to develop a Public Information and Education Plan (PIE). *“The plan shall include:*

2.1.1 Specific public information/education activities that are designed to meet management measures. The management measures are specified in the Permit and addressed in [section 2.2 Public Education and Outreach](#) and [section 2.3 Engineering and Development Community Education and Outreach](#) below. Each activity/BMP described shall specify which management measure it addresses. The activity/BMP may address more than one of the management measures.

2.1.2 Identification of job categories and applicable management measures for employee education. The management measures are specified in the Permit and are addressed in [section 2.4 Employee Education and Outreach](#) below. The specific job categories are for those employees assigned in the work areas listed here and are actively involved with handling potential stormwater pollutants. Administrative or other support/staff positions assigned to these work areas are not included.

2.1.2.1 Public Works Fleet Services

2.1.2.2 Public Works Solid Waste

2.1.2.3 Public Works Grounds Maintenance

2.1.2.4 Public Works Water & Wastewater Services/General Maintenance

2.1.2.5 Parks Maintenance

2.1.3 Schedule/calendar of events for each year. Those activities/BMPs that occur on a recurring basis shall be shown in the Program with the approximate month or time of year they are to take place. For instance, TNSA social media outreach occurs twice monthly and the Bartlett Fall Festival annually in September/October. Other activities, such as pre-application and pre-construction meetings, occur on an as required or as needed basis.

2.1.4 Methodology to evaluate components to assess overall effectiveness and need for improvement. Methodologies to evaluate components to assess overall effectiveness and need for improvement of elements of the PIE are included in the description of that element. It is expected that some elements of the plan will lack an effective methodology without further guidance from the TDEC and the EPA.

2.2 Public Education and Outreach. The Permit requires the City to conduct or sponsor a minimum of six (6) activities that address each of the management measures for the public audience portion of the PIE each reporting year. The total number of activities conducted are to be reported in the annual report including a description of the activity, date of the activity, management measures addressed by that activity, the specifically targeted audience for that activity and the approximate number of that audience reached. For activities that are only sponsored, such as the TNSA Social Media Campaign, identify if the

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event was sponsored monetarily or as a donation in kind. A Public Education and Outreach spreadsheet has been created to track this information and is located in the Stormwater Management Program file on the Department of Engineering's shared computer server.

- 2.2.1 Management Measures. The Permit identifies four management measures that Public Education and Outreach activities are to address. Some activities may address only one measurement while another may address all four. The goal is to address each management measure at least once during the reporting year. Those management measures are:

2.2.1.1 General awareness of the impacts on water quality

2.2.1.2 Awareness of the importance of maintenance activities for operators of permanent BMPs/SCMs. **NOTE: Under a settlement agreement with the TDEC, portions of the permit concerning permanent BMPs/SCMs are not applicable to the City of Bartlett. This management measure will not be addressed pending issuance and settlement of a Phase 1 permit for the City of Memphis that requires permanent SCMs.**

2.2.1.3 Awareness of the proper storage, use and disposal of pesticides, herbicides, fertilizers and oil and other automotive fluids

2.2.1.4 Awareness of identifying and reporting procedures for illicit connections/discharges, sanitary sewer seepage, spills, etc.

2.2.2 Activities/BMPs. This section outlines the activities/BMPs that the City of Bartlett will use to address the management measures specified in the Permit for Public Education and Outreach. Each activity/BMP identifies the OPR and, if applicable, the OCR for that activity. Additionally, each management measure the activity/BMP addresses is identified as well as when the activity is expected to occur. If there is a method to evaluate the effectiveness of the activity/BMP, it is described.

2.2.2.1 *City of Bartlett official website (OPR: Engineering) (OCR: Information Technology (IT)).* The City's official website has a section dedicated to public education and outreach (<https://www.cityofbartlett.org/916/Public-Education-and-Outreach>). In addition to an overview of general water pollution awareness, the web page contains links to Public Service Announcements (PSAs); permanent BMP awareness; ordinance, regulation and guidance materials; chemical applicator awareness; automotive fluid awareness; illicit discharge awareness & reporting; construction guide to cleaner water brochure; homeowner's guide to clean water brochure; pet waste & water quality brochure; landscaping, gardening & pest control brochure; food service industry brochure; heavy equipment and earth moving activities brochure; detention basin maintenance brochure; home repair & remodeling brochure; public education videos; and watershed descriptions. The targeted audience is internet users.

2.2.2.1.1 Management measures addressed by this activity are general awareness of impacts on water quality, awareness of the importance of maintenance activities for operators of permanent BMPs/SCMs, awareness of the proper storage, use and disposal of pesticides, herbicides, fertilizers and oil and other automotive fluids and awareness of identifying and reporting procedures for illicit connections/discharges, sanitary sewer seepage, spills, etc.

2.2.2.1.2 This activity is continuous.

2.2.2.1.3 The methodology to assess overall effectiveness of this activity is to request the City's IT department provide a history of how many times the website was visited

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during the reporting period. The history will be requested by the Stormwater Coordinator during preparation of the annual report.

- 2.2.2.1.4 A description of the activity, date of the activity, management measures addressed by that activity, the specifically targeted audience for that activity and the approximate number of that audience reached will be documented on the Public Education and Outreach spreadsheet.
- 2.2.2.2 *Stormwater Education Booth (OPR: Engineering)*. The Bartlett Fall Festival is an event held each year (normally the last weekend in September). The Stormwater Management Division sponsors a stormwater booth at the festival. Stormwater personnel make themselves available to festival goers to answer questions, accept complaints, distribute stormwater pollution prevention related literature and products and to administer the Stormwater Quiz.
- 2.2.2.2.1 Management measures addressed by this activity are general awareness of impacts on water quality and awareness of identifying and reporting procedures for illicit connections/discharges, sanitary sewer seepage, spills, etc.
- 2.2.2.2.2 This activity is scheduled to occur annually during the Bartlett Fall Festival in September/October. This activity may also occur at other times depending upon the event.
- 2.2.2.2.3 The methodology to assess overall effectiveness of this activity is to track the number of people who have taken the Stormwater Quiz. The quiz is five questions related to stormwater quality impacts with a prize for each correct answer to reinforce the lesson learned. If a question is answered incorrectly, the correct answer is provided immediately and an explanation provided as to why it is the correct answer.
- 2.2.2.2.4 A description of the activity, date of the activity, management measures addressed by that activity, the specifically targeted audience for that activity and the approximate number of that audience reached will be documented on the Public Education and Outreach spreadsheet.
- 2.2.2.3 *Preventing Stormwater Pollution PowerPoint™ presentation (OPR: Engineering)*. This presentation is made available for presentation at Homeowners Association meetings. It may be presented at other events when requested. An email is sent annually (July) to the homeowners associations informing them of the availability of this presentation and asking them to consider having it presented at their annual meetings. Topics include what stormwater run-off is, pollutants that can typically be found in the run-off, sources of those pollutants and what they can do to reduce or eliminate those pollutants. The target audience is homeowners associations and their members. The targeted pollutants are sediments, nutrients, pathogens, pesticides, petroleum products and illegal dumping.
- 2.2.2.3.1 The management measures addressed by this activity are general awareness of impacts on water quality and awareness of the proper storage, use and disposal of pesticides, herbicides, fertilizers and oil and other automotive fluids.
- 2.2.2.3.2 This activity is expected to occur on an annual basis throughout the period of the permit, subject to invitations from the individual homeowners associations. Scheduling of this activity will be accomplished by the Stormwater Coordinator in coordination with the requesting homeowner association.
- 2.2.2.3.3 The methodology to assess overall effectiveness of this activity is to ask a question concerning some element of the presentation before it is presented and ask the

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same question at the conclusion of the presentation. More people should be able to answer the question at the conclusion of the presentation.

- 2.2.2.3.4 A description of the activity, date of the activity, management measures addressed by that activity, the specifically targeted audience for that activity and the approximate number of that audience reached will be documented on the Public Education and Outreach spreadsheet.
- 2.2.2.4 *Tennessee Homeowner's Guide to Cleaner Water pamphlet (OPR: Engineering) (OCR: Water Department).* This pamphlet is used to provide general public awareness of general housekeeping maintenance/activities that can reduce or eliminate stormwater runoff pollution. Topics include minimizing pesticide use, composting, car washing, pet waste, fertilizer use, sediment control, and household hazardous waste disposal. The pamphlet is included with the Community Information Package distributed to each new City of Bartlett water customer. Pamphlets are also prominently displayed in the city hall building adjacent to the reception desk. The pamphlet is available on the City of Bartlett official website in the Stormwater Management Division section. A pamphlet is also sent to homeowners with any correspondence dealing with stormwater pollution prevention such as notice of violations. The target audience is homeowners and renters. The targeted pollutants are sediments, nutrients, pathogens, pesticides and petroleum products.
- 2.2.2.4.1 Management measures addressed by this activity are general awareness of impacts on water quality and awareness of the proper storage, use and disposal of pesticides, herbicides, fertilizers and oil and other automotive fluids.
- 2.2.2.4.2 This activity is expected to occur on a semi-annual basis throughout the period of the permit, with pamphlets being distributed to City Hall in July and January of each reporting period. Pamphlets included with the city welcome packages will be distributed to new water customers as they register with the City's water department.
- 2.2.2.4.3 The methodology to assess overall effectiveness of this activity is tracking how many pamphlets are distributed at City Hall and with violation investigations.
- 2.2.2.4.4 A description of the activity, date of the activity, management measures addressed by that activity, the specifically targeted audience for that activity and the approximate number of that audience reached will be documented on the Public Education and Outreach spreadsheet.
- 2.2.2.5 *Pet Waste & Water Quality pamphlet (OPR: Engineering) (OCR: Water Department).* This pamphlet is used to provide general public awareness of pet waste impacts upon the quality of stormwater runoff. Topics include an explanation of what stormwater runoff is, pathogens found in pet waste and what the pet owner can do to reduce the pathogens in stormwater runoff. The pamphlet is included in the Community Information Package distributed to each new City of Bartlett water customer. The pamphlet is available on the City of Bartlett official website in the Stormwater Management Division section. It is also distributed to each animal clinic and animal hospital within the City of Bartlett, including the City of Bartlett Animal Shelter. Local clinics include the Wolfchase Animal Hospital, Gentle Care Animal Hospital, Petvax, Hillcrest Animal Hospital, Family Veterinary Practice and Community Pet Hospital. The target audience is pet owners. The targeted pollutant is pathogens.
- 2.2.2.5.1 Management measure addressed by this activity is general awareness of impacts on water quality.

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- 2.2.2.5.2 This activity is expected to occur on a semi-annual basis throughout the period of the permit, with pamphlets being distributed in July and January of each reporting period. Pamphlets included with the city welcome packages will be distributed to new water customers as they register with the City's water department.
- 2.2.2.5.3 The methodology to assess overall effectiveness of this activity is tracking how many pamphlets are distributed.
- 2.2.2.5.4 A description of the activity, date of the activity, management measures addressed by that activity, the specifically targeted audience for that activity and the approximate number of that audience reached will be documented on the Public Education and Outreach spreadsheet.
- 2.2.2.6 *Clean Water – Everybody's Business bookmarks (OPR: Engineering)*. This bookmark is used to provide general public awareness of ten things that can be done to reduce or eliminate stormwater runoff pollution. Topics include fertilizer use, car washing, sediment control, illegal dumping, composting, pesticide use, infiltration, vehicle maintenance, pet waste and septic system maintenance. The bookmarks are distributed to the City of Bartlett Library for distribution to library patrons. The target audience is library patrons.
- 2.2.2.6.1 Management measures addressed by this activity are general awareness of impacts on water quality and awareness of the proper storage, use and disposal of pesticides, herbicides, fertilizers and oil and other automotive fluids.
- 2.2.2.6.2 This activity is expected to occur on a semi-annual basis throughout the period of the permit, with bookmarks being distributed in July and January of each reporting period.
- 2.2.2.6.3 The methodology to assess overall effectiveness of this activity is tracking how many bookmarks are distributed.
- 2.2.2.6.4 A description of the activity, date of the activity, management measures addressed by that activity, the specifically targeted audience for that activity and the approximate number of that audience reached will be documented on the Public Education and Outreach spreadsheet.
- 2.2.2.7 *City of Bartlett Official Social Media Platforms (OPR: Engineering) (OCR: Community Relations)*. The City's official social media platforms are managed by the Chief Communications Officer. The Stormwater Coordinator may request public service announcements (PSAs) be posted on the City's social media platforms. The subject matter of the PSAs vary and may include sediments, nutrients, trash and debris, pathogens, pesticides, petroleum products, illicit discharges, and illegal dumping. The target audience is social media users.
- 2.2.2.7.1 Management measures addressed by this activity vary depending upon the PSA and may address general awareness of impacts on water quality, awareness of the importance of maintenance activities for operators of permanent BMPs/SCMs, awareness of the proper storage, use and disposal of pesticides, herbicides, fertilizers and oil and other automotive fluids and awareness of identifying and reporting procedures for illicit connections/discharges, sanitary sewer seepage, spills, etc.
- 2.2.2.7.2 This activity is expected to occur at least once per reporting period.
- 2.2.2.7.3 There has been no methodology established to assess overall effectiveness of this activity but the number of social media PSAs concerning water quality impacts shall

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be tracked. A methodology that more adequately measures the effectiveness of this program element may be established in the future based upon guidance provided from the TDEC or the EPA.

- 2.2.2.7.4 A description of the activity, date of the activity, management measures addressed by that activity, the specifically targeted audience for that activity and the approximate number of that audience reached will be documented on the Public Education and Outreach spreadsheet.

- 2.2.2.8 *Tennessee Stormwater Association (TNSA) Statewide Social Media Campaign (OPR: Engineering)*. This program produces and broadcast PSAs to promote water quality efforts and provide citizens with the understanding of the various sources of water pollution, along with good steward tips the public can do to help protect water resources. The PSAs are posted on the TNSA's Facebook page with links provided to the MS4 stormwater program elements. The PSAs are also posted on TNSA's Twitter and Instagram accounts. The target audience is social media users. The City of Bartlett supports this program element monetarily at the amount specified for the size of the MS4.

- 2.2.2.8.1 Management measures addressed by this activity vary depending upon the PSA and may address general awareness of impacts on water quality, awareness of the importance of maintenance activities for operators of permanent BMPs/SCMs, awareness of the proper storage, use and disposal of pesticides, herbicides, fertilizers and oil and other automotive fluids and awareness of identifying and reporting procedures for illicit connections/discharges, sanitary sewer seepage, spills, etc.

- 2.2.2.8.2 This activity is scheduled to occur twice monthly throughout the reporting period.

- 2.2.2.8.3 The methodology to assess overall effectiveness of this activity is tracking how many "clicks" or "hits" are made. This information is provided by the TNSA in a quarterly report.

- 2.2.2.8.4 This program is administered by the TNSA. A report is provided to the City of Bartlett detailing the number "hits" or "clicks" made for a particular ad. A description of the activity, date of the activity, management measures addressed by that activity, the specifically targeted audience for that activity and the approximate number of that audience reached (hits) will be documented on the Public Education and Outreach spreadsheet.

- 2.2.2.9 *Detention Basin Maintenance Brochure (OPR: Engineering)*. This brochure is used to provide owners of detention basins with general information concerning the importance of detention basins for stormwater pollution control and provides information on how to properly maintain them. The brochure is also available on the City of Bartlett's official website. The target audience is owners of basins.

- 2.2.2.9.1 Management measures addressed by this activity are general awareness of impacts on water quality and awareness of the importance of maintenance activities for operators of permanent BMPs/SCMs.

- 2.2.2.9.2 This activity is not a recurring activity and is expected to occur on an as needed basis.

- 2.2.2.9.3 There has been no methodology established to assess overall effectiveness of this activity but the number of brochures distributed shall be tracked. A methodology may be established in the future based upon guidance provided from the TDEC or the EPA.

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- 2.2.2.9.4 A description of the activity, date of the activity, management measures addressed by that activity, the specifically targeted audience for that activity and the approximate number of that audience reached will be documented on the Public Education and Outreach spreadsheet.
- 2.2.2.10 *Automotive Maintenance and Care Brochure (OPR: Engineering)*. This brochure is used to provide professional automotive repair facilities, parts stores and motor vehicle owners with general information concerning the impact of automotive fluids on the environment and provides information on how to reduce or eliminate those impacts. The brochure is also available on the City of Bartlett's official website. The target audiences are gas stations, auto repair shops, auto body shops, car dealerships, mobile fleet managers, mobile fleet washers and motor vehicle owners.
- 2.2.2.10.1 Management measures addressed by this activity are general awareness of impacts on water quality and awareness of the proper storage, use and disposal of oil and other automotive fluids.
- 2.2.2.10.2 This activity is not a recurring activity and is expected to occur on an as needed basis.
- 2.2.2.10.3 There has been no methodology established to assess overall effectiveness of this activity but the number of brochures distributed shall be tracked. A methodology may be established in the future based upon guidance provided from the TDEC or the EPA.
- 2.2.2.10.4 A description of the activity, date of the activity, management measures addressed by that activity, the specifically targeted audience for that activity and the approximate number of that audience reached will be documented on the Public Education and Outreach spreadsheet.
- 2.2.2.11 *Illicit Discharge Detection and Elimination Handout (OPR: Engineering)*. A handout duplicating the information available on the City's official website is distributed at homeowners association meetings and the City of Bartlett Fall Festival. The target audience is homeowner association members and festival attendees.
- 2.2.2.11.1 Management measures addressed by this activity are general awareness of impacts on water quality and awareness of identifying and reporting procedures for illicit connections/discharges, sanitary sewer seepage, spills, etc.
- 2.2.2.11.2 This activity occurs annual during the Bartlett Fall Festival in September/October and homeowner association meetings when requested.
- 2.2.2.11.3 There has been no methodology established to assess overall effectiveness of this activity but the number of handouts distributed shall be tracked. A methodology may be established in the future based upon guidance provided from the TDEC or the EPA.
- 2.2.2.11.4 A description of the activity, date of the activity, management measures addressed by that activity, the specifically targeted audience for that activity and the approximate number of that audience reached will be documented on the Public Education and Outreach spreadsheet.
- 2.2.2.12 *IDDE – A Grate Concern Video (OPR: Engineering) (OCR: Community Relations)*. A video series posted on the City's official social media platforms that delivers the essential message the community needs about Illicit Discharge Detection and

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Elimination including understanding illicit discharges, the damage they can do, what they look like, how to recognize them and what citizens can do to help eliminate them. The target audience is social media users.

- 2.2.2.12.1 Management measures addressed by this activity are general awareness of impacts on water quality and awareness of identifying and reporting procedures for illicit connections/discharges, sanitary sewer seepage, spills, etc.
- 2.2.2.12.2 This activity is expected to occur once per reporting period.
- 2.2.2.12.3 There has been no methodology established to assess overall effectiveness of this activity but the number of postings shall be tracked. A methodology may be established in the future based upon guidance provided from the TDEC or the EPA.
- 2.2.2.12.4 A description of the activity, date of the activity, management measures addressed by that activity, the specifically targeted audience for that activity and the approximate number of that audience reached will be documented on the Public Education and Outreach spreadsheet.
- 2.2.2.13 *Stormwater Pollution Found in Your Neighborhood Door Tags (OPR: Engineering).* These tags are used in neighborhoods where a stormwater pollution incident has occurred that cannot be traced to an individual. The tags inform the homeowners in the area of the major watershed they live in and describe the type of pollutant found in the area. Contact information is provided for reporting pollutants, an explanation of what stormwater runoff is and some simple things that can be done around the home to reduce or eliminate stormwater runoff pollution. The target audience is homeowners living in the area where a stormwater pollutant had been reported/discovered. The targeted pollutants are automotive fluids, paints, solvents, cooking grease, detergents, home improvement waste, pathogens, nutrients and trash.
 - 2.2.2.13.1 Management measures addressed by this activity are general awareness of impacts on water quality, awareness of the proper storage, use and disposal of pesticides, herbicides, fertilizers and oil and other automotive fluids and awareness of identifying and reporting procedures for illicit connections/discharges, sanitary sewer seepage, spills, etc.
 - 2.2.2.13.2 This activity is not a recurring activity and is expected to occur on an as needed basis.
 - 2.2.2.13.3 There has been no methodology established to assess overall effectiveness of this activity but the number of door tags distributed shall be tracked. A methodology may be established in the future based upon guidance provided from the TDEC or the EPA.
 - 2.2.2.13.4 A description of the activity, date of the activity, management measures addressed by that activity, the specifically targeted audience for that activity and the approximate number of that audience reached will be documented on the Public Education and Outreach spreadsheet.
- 2.2.2.14 *Keep Bartlett Beautiful Day (OPR: Parks).* This event is partnered with the City's City Beautiful Commission and involves a community effort to pick up trash and other types of stormwater pollutants in four of the City's largest parks, W.J. Freeman Park, Nesbit Park, Ellendale Park and Stoneridge Park. Volunteers are requested through the various notification methods described in section 3 as well as the Park's Department official web page.

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- 2.2.2.14.1 Management measures addressed by this activity is general awareness of impacts on water quality.
- 2.2.2.14.2 This event is scheduled to occur once per reporting period, usually in April.
- 2.2.2.14.3 There has been no methodology established to assess overall effectiveness of this activity but the number of participants will be tracked. A methodology may be established in the future based upon guidance provided from the TDEC or the EPA.
- 2.2.2.14.4 A description of the activity, date of the activity, management measures addressed by that activity, the specifically targeted audience for that activity and the approximate number of that audience reached will be documented on the Public Education and Outreach spreadsheet.
- 2.2.2.15 RESERVED FOR FUTURE USE.

Activity/BMP	Management Measure			
	A	B	C	D
City of Bartlett official website	X	X	X	X
Stormwater Education Booth	X			X
Preventing Stormwater Pollution PowerPoint™ presentation	X		X	
Tennessee Homeowner's Guide to Cleaner Water pamphlet	X		X	
Pet Waste & Water Quality pamphlet	X			
Clean Water – Everybody's Business bookmarks	X		X	
City of Bartlett Official Social Media Platforms	X	X	X	X
TNSA Social Media Campaign	X	X	X	X
Detention Basin Maintenance Brochure	X	X		
Automotive Maintenance and Care Brochure	X		X	
Illicit Discharge Detection and Elimination Handout	X			X
IDDE – A Grate Concern Video	X			X
Stormwater Pollution Found in Your Neighborhood Door Tags	X		X	X
Keep Bartlett Beautiful Day	X			
A = General awareness of the impacts on water quality				
B = Awareness of the importance of maintenance activities for operators of permanent BMPs/SCMs				
C = Awareness of the proper storage, use and disposal of pesticides, herbicides, fertilizers and oil and other automotive fluids				
D = Awareness of identifying and reporting procedures for illicit connections/discharges, sanitary sewer seepage, spills, etc.				

Table 2-1 Public Education and Outreach Activities and Management Measures

- 2.3 **Engineering and Development Community Education and Outreach (OPR: Engineering).** The Permit requires the City to conduct or sponsor a minimum of two (2) activities that address each of the management measures for the engineering and development portion of the PIE each reporting year. The total number of activities conducted are to be reported in the annual report including a description of the activity, date of the activity, management measures addressed by that activity, the specifically targeted audience for that activity and the approximate number of that audience reached. An Engineering and Development Community Education and Outreach spreadsheet has been created to track this information and is located in the Stormwater Management Program file on the Department of Engineering's shared computer server.
- 2.3.1 **Management Measures** The Permit identifies two (2) management measures that Engineering and Development Education and Outreach activities are to address. Some activities may address only one measurement while another may address both. The goal

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- is to address each management measure at least once during the reporting year. Those management measures are:
- 2.3.1.1 Awareness of the stormwater ordinances, regulations and guidance materials related to long-term water quality impacts; and
 - 2.3.1.2 Awareness of stormwater ordinances, regulations and guidance materials related to construction phase water quality impacts.
 - 2.3.2 Activities/BMPs This section outlines the activities/BMPs that the City of Bartlett will use to address the management measures specified in the Permit for Engineering and Development Community Education and Outreach. Each activity/BMP identifies the OPR and, if applicable, the OCR for that activity. Additionally, each management measure the activity/BMP addresses is identified as well as when the activity is expected to occur. If there is a method to evaluate the effectiveness of the activity/BMP, it is described.
 - 2.3.2.1 *City of Bartlett official website (OPR: Engineering) (OCR: IT)*. The City's official website has a page dedicated to stormwater ordinance, regulations and guidance material awareness (<https://www.cityofbartlett.org/1084/Ordinance-Regulation-Guidance-Material>). Specific topics include the City's stormwater ordinance, the City's subdivision regulation, the Tennessee construction general permit, the TDEC Erosion Prevention and Sediment Control Handbook, local stormwater design manuals as well as links to websites concerning low impact development. The target audience is the local engineering and development community.
 - 2.3.2.1.1 Management measures addressed by this activity are awareness of the stormwater ordinances, regulations, and guidance materials related to long-term water quality impacts; and awareness of stormwater ordinances, regulations and guidance materials related to construction phase water quality impacts. The specific goal of the program is to provide guidance material awareness to the local engineering and development community and users of the City's website.
 - 2.3.2.1.2 This activity occurs continuously.
 - 2.3.2.1.3 The methodology to assess overall effectiveness of this activity is to request the City's IT department provide a history of how many times the website was visited during the reporting period. The Stormwater Coordinator shall ask for the history during the preparation of the annual report.
 - 2.3.2.1.4 A description of the activity, date of the activity, management measures addressed by that activity, the specifically targeted audience for that activity and the approximate number of that audience reached will be documented on the Engineering and Development Education and Outreach spreadsheet.
 - 2.3.2.2 *Pre-application meetings (OPR: Engineering) (OCR: Planning)*. Pre-application meetings are conducted prior to the formal process of project plan application and approval. These meetings are normally requested by the engineer/developer to gather the requirements for development or construction for a particular parcel.
 - 2.3.2.2.1 Management measures addressed by this activity are awareness of the stormwater ordinances, regulations, and guidance materials related to long-term water quality impacts; and awareness of stormwater ordinances, regulations and guidance materials related to construction phase water quality impacts.
 - 2.3.2.2.2 This activity is not a recurring activity and is expected to occur on an as needed basis.

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- 2.3.2.2.3 There has been no methodology established to assess overall effectiveness of this activity but the number of meetings conducted shall be tracked. A methodology may be established in the future based upon guidance provided from the TDEC or the EPA.
- 2.3.2.2.4 A description of the activity, date of the activity, management measures addressed by that activity, the specifically targeted audience for that activity and the approximate number of that audience reached will be documented on the Engineering and Development Education and Outreach spreadsheet.
- 2.3.2.3 *Mid-South Clean Waters Day (OPR: TNSA) (OCR: Engineering)* This activity is sponsored through TNSA. The activity involves workshops with various topics related to water quality impacts from construction activities as well as the guidance material related to minimizing those impacts. The activity includes a demonstration of the various BMPs that can be utilized to minimize the impacts construction has on water quality. Local MS4 stormwater personnel are invited to participate/co-sponsor these activities.
- 2.3.2.3.1 Management measures addressed by this activity vary but may include awareness of the stormwater ordinances, regulations and guidance materials related to long-term water quality impacts; and awareness of stormwater ordinances, regulations and guidance materials related to construction phase water quality impacts.
- 2.3.2.3.2 This activity is a recurring event expected to occur once every two years, usually in April, during the term of the Permit.
- 2.3.2.3.3 There has been no methodology established to assess overall effectiveness of this activity but the number of attendees shall be tracked. A methodology may be established in the future based upon guidance provided from the TDEC or the EPA
- 2.3.2.3.4 A description of the activity, date of the activity, management measures addressed by that activity, the specifically targeted audience for that activity and the approximate number of that audience reached will be documented on the Engineering and Development Education and Outreach spreadsheet.
- 2.3.2.4 *Engineering and Development Community mailing list (OPR: Engineering).* The Manager maintains an electronic mailing list for local engineers and developers. The Stormwater Coordinator may request the Manager, or the Manager may elect to disseminate pertinent information to those on the listing.
- 2.3.2.4.1 Management measures addressed by this activity vary but may include awareness of the stormwater ordinances, regulations and guidance materials related to long-term water quality impacts; and awareness of stormwater ordinances, regulations and guidance materials related to construction phase water quality impacts
- 2.3.2.4.2 This activity is not a recurring activity and is expected to occur on an as needed basis.
- 2.3.2.4.3 There has been no methodology established to assess overall effectiveness of this activity but the number of emails sent shall be tracked. A methodology may be established in the future based upon guidance provided from the TDEC or the EPA.
- 2.3.2.4.4 A description of the activity, date of the activity, management measures addressed by that activity, the specifically targeted audience for that activity and the approximate number of that audience reached will be documented on the Engineering and Development Education and Outreach spreadsheet.

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Activity/BMP	Management Measure	
	A	B
City of Bartlett official website	X	X
Pre-application meetings	X	X
Mid-South Clean Waters Day	X	X
Engineering and Development Community mailing list	X	X
A = Awareness of the stormwater ordinances, regulations and guidance materials related to long-term water quality impacts		
B = Awareness of stormwater ordinances, regulations and guidance materials related to construction phase water quality impacts		

Table 2-2 Engineering and Development Community Education and Outreach Activities and Management Measures

2.4 Employee Education and Outreach (OPRs: Engineering) (OCRs: Public Works and Parks Department). The Permit requires the City to conduct activities that address each of the management measures for the employee portion of the PIE within six months of an employee's assignment to an applicable job category (see section 2.1) and then again at least once per permit cycle. The total number of new employees not trained within six months and the total number of employees not retrained within the permit cycle shall be reported in the annual report.

2.4.1 Management Measures. The Permit identifies three (3) management measures that Employee Education and Outreach activities are to address. Some activities may address only one measurement while another may address all three. The goal is to address each management measure at least once during the permit cycle. Those management measures are:

2.4.1.1 Awareness of water quality impacts from daily operations;

2.4.1.2 Pollution prevention and good housekeeping; and

2.4.1.3 Awareness of identifying and reporting procedures for illicit connections/discharges, sanitary sewer diversions or seepages, spills, etc.

2.4.2 Activities/BMPS This section outlines the activities/BMPs that the City of Bartlett will use to address the management measures specified in the Permit for Employee Education and Outreach. Each activity/BMP identifies the OPR and, if applicable, the OCR for that activity. Additionally, each management measure the activity/BMP addresses is identified as well as when the activity is expected to occur. If there is a method to evaluate the effectiveness of the activity/BMP, it is described.

2.4.2.1 *Public Works Fleet Services Stormwater Training (OPR: Public Works) (OCR: Engineering).* Fleet Services Stormwater Training consists of a suite of training material including the Fleet Maintenance Stormwater Pollution Prevention Training PowerPoint presentation, Stormwater Training for Municipal Employees – Part 1 YouTube, Vehicle Maintenance YouTube and Illicit Discharge Detection and Elimination (IDDE) Training YouTube. The Fleet Services Division Manager shall be responsible for training material selection, scheduling and tracking of individual training.

2.4.2.1.1 Management measures addressed by this activity may include awareness of water quality impacts from daily operations, pollution prevention and good housekeeping; and awareness of identifying and reporting procedures for illicit connections/discharges, sanitary sewer diversions or seepages, spills, etc., depending upon which training the Division Manager elects to use at that time. The

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goal is to address each management measure at least once each permit cycle with newly assigned personnel receiving the training within six (6) months of assignment.

- 2.4.2.1.2 This activity occurs at least once each permit cycle. The Division Manager shall notify the Stormwater Coordinator when training is conducted to include the training material used, the number of employees trained and the management measures addressed by that training.
- 2.4.2.1.3 The methodology to assess overall effectiveness of this activity is to track the number of employees not trained during the permit cycle or within six (6) months of assignment. The Division Manager shall ensure all employees in the identified job categories are trained and notify the Stormwater Coordinator when the training goal is not met.
- 2.4.2.1.4 A description of the activity, date of the activity, management measures addressed by that activity, the specifically targeted audience for that activity and the approximate number of that audience reached will be documented by the Stormwater Coordinator on the Employee Education and Outreach spreadsheet.
- 2.4.2.2 *Public Works Grounds Maintenance Stormwater Training (OPR: Public Works) (OCR: Engineering)* Grounds Maintenance Stormwater Training consists of a suite of training material including the Grounds Maintenance Stormwater Pollution Prevention Training PowerPoint presentation, Stormwater Training for Municipal Employees – Part 3 YouTube, Routine Street and Parking Lot Sweeping YouTube and Illicit Discharge Detection and Elimination (IDDE) Training YouTube. The Grounds Maintenance Division Manager shall be responsible for training material selection, scheduling and tracking of individual training.
- 2.4.2.2.1 Management measures addressed by this activity may include awareness of water quality impacts from daily operations, pollution prevention and good housekeeping; and awareness of identifying and reporting procedures for illicit connections/discharges, sanitary sewer diversions or seepages, spills, etc., depending upon which training the Division Manager elects to use at that time. The goal is to address each management measure at least once each permit cycle with newly assigned personnel receiving the training within six (6) months of assignment.
- 2.4.2.2.2 This activity occurs at least once each permit cycle. The Division Manager shall notify the Stormwater Coordinator when training is conducted to include the training material used, the number of employees trained and the management measures addressed by that training.
- 2.4.2.2.3 The methodology to assess overall effectiveness of this activity is to track the number of employees not trained during the permit cycle or within six (6) months of assignment. The Division Manager shall ensure all employees in the identified job categories are trained and notify the Stormwater Coordinator when the training goal is not met.
- 2.4.2.2.4 A description of the activity, date of the activity, management measures addressed by that activity, the specifically targeted audience for that activity and the approximate number of that audience reached will be documented by the Stormwater Coordinator on the Employee Education and Outreach spreadsheet.
- 2.4.2.3 *Public Works Solid Waste Stormwater Training (OPR: Public Works) (OCR: Engineering)* Solid Waste Stormwater Training consists of a suite of training material including the Solid Wastes Operations Stormwater Pollution Prevention Training PowerPoint presentation, Stormwater Training for Municipal Employees – Part 4

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YouTube, Stockpile Management YouTube, Waste Disposal YouTube and Illicit Discharge Detection and Elimination (IDDE) Training YouTube. The Solid Waste Division Manager shall be responsible for training material selection, scheduling and tracking of individual training.

- 2.4.2.3.1 Management measures addressed by this activity may include awareness of water quality impacts from daily operations, pollution prevention and good housekeeping; and awareness of identifying and reporting procedures for illicit connections/discharges, sanitary sewer diversions or seepages, spills, etc., depending upon which training the Division Manager elects to use at that time. The goal is to address each management measure at least once each permit cycle with newly assigned personnel receiving the training within six (6) months of assignment,
- 2.4.2.3.2 This activity occurs at least once each permit cycle. The Division Manager shall notify the Stormwater Coordinator when training is conducted to include the training material used, the number of employees trained and the management measures addressed by that training.
- 2.4.2.3.3 The methodology to assess overall effectiveness of this activity is to track the number of employees not trained during the permit cycle or within six (6) months of assignment. The Division Manager shall ensure all employees in the identified job categories are trained and notify the Stormwater Coordinator when the training goal is not met
- 2.4.2.3.4 A description of the activity, date of the activity, management measures addressed by that activity, the specifically targeted audience for that activity and the approximate number of that audience reached will be documented by the Stormwater Coordinator on the Employee Education and Outreach spreadsheet.
- 2.4.2.4 *Public Works Water & Wastewater Services/General Maintenance Stormwater Training (OPR: Public Works) (OCR: Engineering).* Water & Wastewater Services/General Maintenance Stormwater Training consists of a suite of training material including the General Maintenance Stormwater Pollution Prevention Training PowerPoint presentation, Stormwater Training for Municipal Employees – Part 2 YouTube, Stormwater Training for Municipal Employees – Part 5 YouTube and Illicit Discharge Detection and Elimination (IDDE) Training YouTube. The Water & Wastewater Services/General Maintenance Division Manager shall be responsible for training material selection, scheduling and tracking of individual training.
 - 2.4.2.4.1 Management measures addressed by this activity may include awareness of water quality impacts from daily operations, pollution prevention and good housekeeping; and awareness of identifying and reporting procedures for illicit connections/discharges, sanitary sewer diversions or seepages, spills, etc., depending upon which training the Division Manager elects to use at that time. The goal is to address each management measure at least once each permit cycle with newly assigned personnel receiving the training within six (6) months of assignment.
 - 2.4.2.4.2 This activity occurs at least once each permit cycle. The Division Manager shall notify the Stormwater Coordinator when training is conducted to include the training material used, the number of employees trained and the management measures addressed by that training.
 - 2.4.2.4.3 The methodology to assess overall effectiveness of this activity is to track the number of employees not trained during the permit cycle or within six (6) months of assignment. The Division Manager shall ensure all employees in the identified job

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categories are trained and notify the Stormwater Coordinator when the training goal is not met.

2.4.2.4.4 A description of the activity, date of the activity, management measures addressed by that activity, the specifically targeted audience for that activity and the approximate number of that audience reached will be documented by the Stormwater Coordinator on the Employee Education and Outreach spreadsheet.

2.4.2.5 *Parks Maintenance Stormwater Training (OPR: Parks) (OCR: Engineering)* Parks Maintenance Stormwater Training consists of a suite of training material including the Parks Maintenance Stormwater Pollution Prevention Training PowerPoint presentation, Stormwater Training for Municipal Employees – Part 3 YouTube, Parks Maintenance and Stormwater Protection Employee Training YouTube and Illicit Discharge Detection and Elimination (IDDE) Training YouTube. The Parks Maintenance Division Manager shall be responsible for training material selection, scheduling and tracking of individual training.

2.4.2.5.1 Management measures addressed by this activity may include awareness of water quality impacts from daily operations, pollution prevention and good housekeeping; and awareness of identifying and reporting procedures for illicit connections/discharges, sanitary sewer diversions or seepages, spills, etc., depending upon which training the Division Manager elects to use at that time. The goal is to address each management measure at least once each permit cycle with newly assigned personnel receiving the training within six (6) months of assignment.

2.4.2.5.2 This activity occurs at least once each permit cycle. The Division Manager shall notify the Stormwater Coordinator when training is conducted to include the training material used, the number of employees trained and the management measures addressed by that training.

2.4.2.5.3 The methodology to assess overall effectiveness of this activity is to track the number of employees not trained during the permit cycle or within six (6) months of assignment. The Division Manager shall ensure all employees in the identified job categories are trained and notify the Stormwater Coordinator when the training goal is not met.

2.4.2.5.4 A description of the activity, date of the activity, management measures addressed by that activity, the specifically targeted audience for that activity and the approximate number of that audience reached will be documented by the Stormwater Coordinator on the Employee Education and Outreach spreadsheet.

2.4.3 RESERVED FOR FUTURE USE

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Activity/BMP	Management Measure		
	A	B	C
Fleet Maintenance Stormwater Pollution Prevention Training PowerPoint	X	X	
Stormwater Training for Municipal Employees - Part 1	X	X	
Vehicle maintenance YouTube	X	X	
Grounds Maintenance Stormwater Pollution Prevention Training PowerPoint	X	X	
Stormwater Training for Municipal Employees - Part 3	X	X	
Routine Street and Parking Lot Sweeping	X	X	
Solid Wastes Operations Stormwater Pollution Prevention Training PowerPoint	X	X	
Stormwater Training for Municipal Employees - Part 4	X	X	
Stockpile management	X	X	
Waste Disposal	X	X	
General Maintenance Stormwater Pollution Prevention Training PowerPoint	X	X	
Stormwater Training for Municipal Employees - Part 2	X	X	
Stormwater Training for Municipal Employees - Part 5	X	X	X
Parks Maintenance Stormwater Pollution Prevention Training PowerPoint	X	X	
Parks Maintenance and Stormwater Protection Employee Training	X	X	
Illicit Discharge Detection and Elimination (IDDE) Training			X
A = Awareness of water quality impacts from daily operations			
B = Pollution prevention and good housekeeping			
C = Awareness of identifying and reporting procedures for illicit connections/discharges, sanitary sewer seepage, spills, etc.			

Table 2-3 Employee Education and Outreach Activities and Management Measures

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SECTION 3 – PUBLIC INVOLVEMENT/PARTICIPATION**

Section 3 - Public Involvement/Participation

Section 4.2.2 of the Permit requires the City of Bartlett to *develop and implement a program for public involvement and participation as part of the stormwater management program. The objective is to promote, publicize and facilitate citizen's participation in the development and implementation of the stormwater management program. The program will be designed to reach two (2) major audiences, (1) the general public (4.2.2.1) and (2) the commercial and industrial communities (4.2.2.2).* Some elements of this section overlap with elements in other sections of the Stormwater Management Program and will not be repeated here. When applicable, those elements shall be referenced.

3.1 Minimum Program Requirements. In addition to reaching the two (2) major audiences, the program must include the following items. When these items have a minimum management measure not listed in sections 3.2 or 3.3 below, those management measures and the activities/BMPs will be addressed.

3.1.1 Specific public involvement/participation activities that are designed to meet the management measures. Management measures that are addressed in section 4.2.2.1 (General Public) and section 4.2.2.2 (Commercial and Development Community) of the Permit will be addressed in the applicable sections (3.2 or 3.3) below. Each activity/BMP described shall specify which management measure it addresses. The activity/BMP may address more than one of the management measures.

3.1.2 Schedule/calendar of events for each year. Those activities/BMPs that occur on a recurring basis shall be shown in the Program with the approximate month or time of year they are to take place. For instance, TNSA social media outreach occurs twice monthly and the Bartlett Fall Festival annually in September/October. Other activities/BMPs, such as pre-application and pre-construction meetings, occur on an as required or as needed basis.

3.1.3 Methodology to evaluate components to assess overall effectiveness and need for improvement. Modes for evaluating the effectiveness of elements of the PIE are included in the description of that element. It is expected that some elements of the plan will lack an effective means of evaluation without further guidance from the TDEC and the EPA.

3.1.4 A mechanism for citizen reporting of illegal spillage, dumping or otherwise illicit disposal of materials into the MS4 system.

3.1.4.1 *Magnet System Internet Based Reporting System.* The Magnet System is a web based system that allows citizens to report suspected illegal spillage, dumping or otherwise illicit disposal of materials into the MS4 system via the internet. A link (Submit a Request) is provided for accessing the system on the City of Bartlett official website home page. The system automatically sends a notification for report investigation to either Code Enforcement or Engineering. Magnet is used for tracking incident response and elimination.

3.1.4.2 *Telephone System.* Telephone reporting is perhaps the most common method that citizens use to report suspected illicit discharges. Telephone numbers are displayed on the City of Bartlett official website, mailings, directories, etc., and are easily available to most citizens. The calls are usually received at the departments of Engineering, Public Works or Code Enforcement. To ensure response and tracking is consistent, any information received via telephone reporting is manually keyed into the Magnet System for incident response and elimination tracking.

3.1.4.3 *Electronic Mail.* Citizens are encouraged to use the Magnet System but sometimes find using electronic mail more convenient. As with telephone reporting, electronic mail

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- reports are usually received at the departments of Engineering, Public Works or Code Enforcement. To ensure response and tracking is consistent, any information received via electronic mail reporting is manually keyed into the Magnet System for incident response and elimination tracking.
- 3.1.5 Publicity plan for public involvement and participation opportunities by methods designed to reach the intended audience.
- 3.1.5.1 *City of Bartlett Official Website (OPR: Engineering) (OCRs: Office of the Mayor, Community Relations, Information Technology, Planning).* The City of Bartlett official website can be used to advertise both long term and short notice public involvement opportunities. The Public Notices section is routinely used to advertise solicitations for public comments on documents or other associated stormwater programs. Planning commission and Board of Mayor and Alderman agendas and meetings dates are posted here, providing the public an opportunity to comment upon proposed projects. The calendar section may be used to advertise specific activities on known dates. The News and Announcement section may be used to publicize upcoming events or to make an announcement concerning stormwater runoff pollution prevention. The Stormwater Management Division section of the website provides information concerning activities as well as reporting of illicit discharges. Postings of events, public announcements, or other opportunities for public involvement relating specifically to stormwater matters shall be initiated by the Stormwater Coordinator and approved by the Program Manager. The Program Manager has authority to direct changes to the Engineering section of the website. Postings to other portions of the website shall be coordinated through the applicable OCR with final approval resting with the Mayor (if required).
- 3.1.5.2 *City of Bartlett Official Social Media Platforms (OPR: Engineering) (OCR: Community Relations).* The Chief Communications Officer manages the City's official social media platforms. Social media platforms can be used to advertise both long term and short notice public involvement opportunities via a post or a news flash. Postings of events, public announcements, or other opportunities for public involvement relating specifically to stormwater matters shall be initiated by the Stormwater Coordinator and approved by the Program Manager. The request shall be coordinated with the OCR, with final approval resting with the Mayor (if required). The OCR shall determine the best method for displaying the information on social media platforms.
- 3.1.5.3 *Water Bill Message Request (OPR: Engineering) (OCR: Water Department).* A Water Bill Message Request form is used to print a brief message on the water bills of all City of Bartlett water customers. When the participation opportunity is related specifically to stormwater matters, the form is initiated by the Stormwater Coordinator and approved by the Program Manager. Final approval is provided by the Mayor. The specific goal of this program is to advertise non-time sensitive participation activities to the general public. This activity is also used to provide general information concerning other program elements such as purchase opportunities for yard waste carts and illicit discharge reporting. The frequency of messages is dependent upon the program information and the best means for distributing that information.
- 3.1.5.4 *Bulletin Board (OCR: Engineering) (OCRs: Planning, Office of the Mayor).* A bulletin board is located adjacent to the entrance to the city hall. Meeting agendas and dates, such as Planning Commission Meetings, are routinely displayed here. Postings of events, public announcements, or other opportunities for public involvement relating specifically to stormwater matters shall be initiated by the Stormwater Coordinator and approved by the Program Manager. The posting shall be coordinated with the applicable OCR, with final approval resting with the Mayor (if required).

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3.1.5.5 *Newspapers (OPR: Engineering).* The City may elect to advertise participation activities using the local newspaper. Public notice soliciting comments will normally be posted in the local newspaper in addition to one or more of the afore mentioned methods. The Stormwater Coordinator shall draft the notice. With the approval of the Program Manager, the notice will be sent to the local paper for publication.

3.1.5.6 RESERVED FOR FUTURE USE

3.1.6 Permittees shall create opportunities for the public to participate in the decision-making processes for developing, implementing and updating the Stormwater Management Program.

3.1.6.1 *Stormwater Management Program Modification Workshops (OPR: Engineering).* For major modifications to the Stormwater Management Program, the Stormwater Coordinator will draft the changes and schedule three (3) workshops to provide the public with an opportunity to participate in the decision making-process. This participation opportunity will be advertised using one or more of the methods described in section 3.1.5.

3.1.6.1.1 The first workshop will be used to introduce the draft to those members of the public who have decided to participate. A copy of the draft and the applicable portions of the Permit is to be provided to all attendees. Any initial questions will be addressed. The intent of this meeting is to ensure all interested participants have a copy of the draft to review and provide input to. If no one from the public attends this workshop, no other workshops will be scheduled.

3.1.6.1.2 The second workshop will be scheduled a minimum of four (4) weeks following the first workshop. The purpose of this workshop is to receive and discuss comments and suggestions concerning the draft from participants. All comments and suggestions consistent with the Permit requirements will be considered.

3.1.6.1.3 The third workshop will be scheduled a minimum of four (4) weeks following the second workshop. The purpose of this workshop is to provide the final draft to participants for discussion and comment. The final draft should be a collaborative work, and consistent with the requirements of the Permit and only require minor edits before being place on formal public notice.

3.1.6.2 Once the draft has been finalized, a public notice will be announced using one or more of the methods described in section 3.1.5. A copy of the public notice will also be sent to TDEC as required by section 4.4.1.2 of the Permit.

3.1.6.2.1 The public notice period will be for a period of at least 30 days.

3.1.6.2.2 The draft document will be made available for review during normal business hours in the Engineering Department. A copy will also be posted on the City's official website.

3.1.6.2.3 If comments are received during the formal notice period, they will be considered for inclusion in the final document.

3.1.6.2.4 All comments and the rationale for not including a comment in the final document shall be maintained on file.

3.1.7 Mechanisms, procedures and processes for public access to information on new development and redevelopment projects and receiving and considering comments from the public on those new development and redevelopment projects.

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- 3.1.7.1 *Planning Commission and Board of Mayor and Alderman (OPR: Planning and Office of the Mayor)* All new development and redevelopment projects are subject to review and approval by the City's Planning Commission with final approval resting with the Board of Mayor and Alderman.
- 3.1.7.1.1 Planning Commission meetings are scheduled to occur monthly and are posted on the City's official website and the bulletin board at the entrance to City Hall. The postings include an agenda that will include any new development or redevelopment projects.
- 3.1.7.1.2 The Board of Mayor and Alderman meetings are scheduled to occur every two weeks and are posted on the City's official website and the bulletin board at the entrance to City Hall. The postings include an agenda that will include any new development or redevelopment projects.
- 3.1.7.1.3 The meetings are open to the public. The public is afforded an opportunity to provide any comments on new development or redevelopment projects being considered at the meetings.
- 3.1.7.2 *Master Plan.* Master plans are governed by the City's subdivision ordinance and normally concern new subdivisions. This type of project does not require any formal public notice but requires review and approval by the City's Planning Commission and the Board of Mayor and Alderman. The advertising of this type of new development or redevelopment is through the Planning Commission and Board of Mayor and Alderman processes described above.
- 3.1.7.3 *Planned Development.* Planned developments are governed by the City's zoning ordinance. This type of project requires formal public notice to property owners adjacent to the development or redevelopment project and requires review and approval by the City's Planning Commission and the Board of Mayor and Alderman.
- 3.1.7.3.1 The City's Department of Planning and Economic Development will send formal public notice letters to the affected property owners.
- 3.1.7.3.2 The advertising of this type of new development or redevelopment is through the Planning Commission and Board of Mayor and Alderman processes described above.
- 3.1.7.4 *Site Plan.* A site plan normally involves commercial property development or redevelopment. This type of development/redevelopment project is processed similar to the Master Plan.
- 3.1.8 Develop and implement a public notice process in accordance with subpart 4.4.1 of the Permit. See sections 3.1.5 and 3.1.6 above.
- 3.1.9 Permittees shall track and maintain records of public involvement and participation opportunities.
- 3.1.9.1 *Stormwater Management Program Modifications (OPR: Engineering)* The City's Department of Engineering and Utilities shall maintain records associated with modification workshops.
- 3.1.9.2 *Planning Commission Meetings (OPR: Planning)* Meeting minutes and agendas shall be maintained by the Department of Planning and Economic Development and are archived on the City's official website.

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3.1.9.3 *Board of Mayor and Alderman Meetings (OPR: Office of the Mayor)* Meeting minutes and agendas shall be maintained by the City Clerk and are archived on the City's official website.

3.1.9.3.1 RESERVED FOR FUTURE USE

3.1.10 RESERVED FOR FUTURE USE

3.1.11 Management Measures. Management measures for section 4.2.2 of the Permit are addressed here. Those management measures addressed in section 4.2.2.1 and 4.2.2.2 of the Permit are addressed in [sections 3.2, The General Public,](#) and [3.3, The Commercial and Development Community,](#) below.

3.1.11.1 *Provide public access to the Stormwater Management Program records, including a written description of the Stormwater Program available at reasonable times during regular business hours.*

3.1.11.1.1 The goal of this management measure is to make the written description of the Stormwater Management Program available to the public either on the City's official webpage or through the City's public records review process.

3.1.11.1.1.1 The Stormwater Management Program is posted on the City's official website and is available for review at the Department of Engineering and Utilities during normal business hours.

3.1.11.1.1.2 Supporting documents such as inspection reports or enforcement actions are available to the public through the City's public records request process.

3.1.11.1.2 The reporting requirement for this management measure is to provide the web address for the Stormwater Management Program.

3.1.11.2 *Develop and implement a formal public notice process including documenting and responding to public comments and mechanism to identify major modification to the Stormwater Management Program that require a formal public notice process.*

3.1.11.2.1 These processes have been described in sections 3.1.5 and 3.1.6 above.

3.1.11.2.2 The reporting requirement for this management measure is to provide a copy of the formal notice and response to comments when the Stormwater Management Program is required to be formally placed upon public notice.

3.1.11.2.3 For reporting periods when formal notice is not required, indicate so in the annual report.

3.1.11.3 *Mechanisms, procedures and processes for public access to information on projects and receiving and considering comments from the public on those projects.*

3.1.11.3.1 These processes have been described in section 3.1.7 above.

3.1.11.3.2 The reporting requirements for this management measure are to indicate (yes/no) that all information concerning construction sites are accessible to the public, the number of comments received from the public and if those comments (yes/no) are considered.

3.1.11.4 *Encourage and promote citizen reporting of illegal spillage, dumping or otherwise disposal of materials into the MS4 storm sewer system.*

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- 3.1.11.4.1 The City's official website has a page dedicated to illicit discharge awareness and reporting (<https://www.cityofbartlett.org/1089/Illicit-Discharge-Awareness-Reporting>). Specific topics include what is an illicit discharge, why detection and elimination of illicit discharges are important and how to detect and report an illicit discharge.
- 3.1.11.4.2 Other methods to encourage and promote citizen reporting of illegal spillage, dumping or otherwise disposal of materials into the MS4 storm sewer system are described in section 3.2.2.
- 3.1.11.4.3 The processes for reporting illegal spillage, dumping or otherwise disposal of materials into the MS4 storm sewer system are described in section 3.1.4 above.
- 3.1.11.4.4 The reporting requirement for this management measure is to report the number of reports received from the public. This information can be extracted from Magnet. Magnet can not differentiate between reporting sources so the data will have to be scrutinized for reports from the public.

3.2 The General Public. The Permit requires the City to conduct or sponsor a minimum of six (6) activities that address each of the management measures for the general public audience portion of the PIE each reporting year. The total number of activities conducted are to be reported in the annual report including a description of the activity, date of the activity, management measures addressed by that activity, the specifically targeted audience for that activity and the approximate number of that audience reached. For activities that are only sponsored, such as the TNSA Social Media Campaign, identify if the event was sponsored monetarily or as a donation in kind. A Public Involvement/Participation spreadsheet has been created to track this information and is located in the Stormwater Management Program file on the Department of Engineering's shared computer server.

3.2.1 Management Measures. The Permit identifies four (4) management measures that General Public Involvement/Participation activities are to address. Some activities may address only one measurement while another may address all four. The goal is to address each management measure at least once during the reporting year. Those management measures are:

3.2.1.1 Pollution Prevention

3.2.1.2 Impacts on water quality or local stormwater management issues.

3.2.1.3 Storage, use and disposal of household hazardous waste, automotive-related fluids, pesticides, herbicides and fertilizer use.

3.2.1.4 Identifying and reporting procedures for illicit connections/discharges, sanitary sewer seepage, spills, etc.

3.2.2 Activities/BMPs. This section outlines the activities/BMPs that the City of Bartlett will use to address the management measures specified in the Permit for General Public Involvement/Participation. Each activity/BMP identifies the OPR and, if applicable, the OCR for that activity. Additionally, each management measure the activity/BMP addresses is identified as well as when the activity is expected to occur. If there is a method to evaluate the effectiveness of the activity/BMP, it is described.

3.2.2.1 *City of Bartlett official website (OPR: Engineering) (OCR: IT).* As described in section 2.2.

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- 3.2.2.1.1 Management measures addressed by this activity are pollution prevention, impacts on water quality or local stormwater management issues, storage, use and disposal of household hazardous waste, automotive-related fluids, pesticides, herbicides, fertilizers and identifying and reporting procedures for illicit connections/discharges, sanitary sewer seepage, spills, etc.
- 3.2.2.1.2 A description of the activity, date of the activity, management measures addressed by that activity, the specifically targeted audience for that activity and the approximate number of that audience reached will be documented on the Public Involvement/Participation spreadsheet.
- 3.2.2.2 *Stormwater Education Booth (OPR: Engineering).* As described in section 2.2.
- 3.2.2.2.1 Management measures addressed by this activity are pollution prevention, impacts on water quality or local stormwater management issues, storage, use and disposal of household hazardous waste, automotive-related fluids, pesticides, herbicides, fertilizers and identifying and reporting procedures for illicit connections/discharges, sanitary sewer seepage, spills, etc.
- 3.2.2.2.2 A description of the activity, date of the activity, management measures addressed by that activity, the specifically targeted audience for that activity and the approximate number of that audience reached will be documented on the Public Involvement/Participation spreadsheet.
- 3.2.2.3 *Preventing Stormwater Pollution PowerPoint™ presentation (OPR: Engineering).* As described in section 2.2.
- 3.2.2.3.1 The management measures addressed by this activity are pollution prevention, impacts on water quality or local stormwater management issues, and storage, use and disposal household hazardous waste, automotive-related fluids, pesticides, herbicides, fertilizers.
- 3.2.2.3.2 A description of the activity, date of the activity, management measures addressed by that activity, the specifically targeted audience for that activity and the approximate number of that audience reached will be documented on the Public Involvement/Participation spreadsheet.
- 3.2.2.4 *Tennessee Homeowner's Guide to Cleaner Water pamphlet (OPR: Engineering) (OCR: Water Department).* As described in section 2.2.
- 3.2.2.4.1 Management measures addressed by this activity are pollution prevention, impacts on water quality or local stormwater management issues, and storage, use and disposal household hazardous waste, automotive-related fluids, pesticides, herbicides, fertilizers.
- 3.2.2.4.2 A description of the activity, date of the activity, management measures addressed by that activity, the specifically targeted audience for that activity and the approximate number of that audience reached will be documented on the Public Involvement/Participation spreadsheet.
- 3.2.2.5 *Pet Waste & Water Quality pamphlet (OPR: Engineering) (OCR: Water Department).* As described in section 2.2.
- 3.2.2.5.1 Management measure addressed by this activity is pollution prevention and impacts on water quality or local stormwater management issues.

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- 3.2.2.5.2 A description of the activity, date of the activity, management measures addressed by that activity, the specifically targeted audience for that activity and the approximate number of that audience reached will be documented on the Public Involvement/Participation spreadsheet.
- 3.2.2.6 *Clean Water – Everybody's Business* bookmarks (OPR: Engineering). As described in section 2.2.
- 3.2.2.6.1 Management measures addressed by this activity are pollution prevention, impacts on water quality or local stormwater management issues, storage, use and disposal of household hazardous waste, automotive-related fluids, pesticides, herbicides, fertilizers and identifying and reporting procedures for illicit connections/discharges, sanitary sewer seepage, spills, etc.
- 3.2.2.6.2 A description of the activity, date of the activity, management measures addressed by that activity, the specifically targeted audience for that activity and the approximate number of that audience reached will be documented on the Public Involvement/Participation spreadsheet.
- 3.2.2.7 *City of Bartlett Official Social Media Platforms* (OPR: Engineering) (OCR: Community Relations). As described in section 2.2.
- 3.2.2.7.1 Management measures addressed by this activity vary depending upon the posting and may address pollution prevention, impacts on water quality or local stormwater management issues, storage, use and disposal of household hazardous waste, automotive-related fluids, pesticides, herbicides, fertilizers and identifying and reporting procedures for illicit connections/discharges, sanitary sewer seepage, spills, etc.
- 3.2.2.7.2 A description of the activity, date of the activity, management measures addressed by that activity, the specifically targeted audience for that activity and the approximate number of that audience reached will be documented on the Public Involvement/Participation spreadsheet.
- 3.2.2.8 *Tennessee Stormwater Association (TNSA) Statewide Social Media Campaign* (OPR: Engineering). As described in section 2.2.
- 3.2.2.8.1 Management measures addressed by this activity vary depending upon the PSA and may address pollution prevention, impacts on water quality or local stormwater management issues, storage, use and disposal of household hazardous waste, automotive-related fluids, pesticides, herbicides, fertilizers and identifying and reporting procedures for illicit connections/discharges, sanitary sewer seepage, spills, etc.
- 3.2.2.8.2 This program is administered by the TNSA. A report is provided to the City of Bartlett detailing the number "hits" or "clicks" made in our local area. A description of the activity, date of the activity, management measures addressed by that activity, the specifically targeted audience for that activity and the approximate number of that audience reached will be documented on the Public Involvement/Participation spreadsheet.
- 3.2.2.9 *Detention Basin Maintenance Brochure* (OPR: Engineering). As described in section 2.2.
- 3.2.2.9.1 Management measure addressed by this activity is pollution prevention and impacts on water quality or local stormwater management issues.

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- 3.2.2.9.2 A description of the activity, date of the activity, management measures addressed by that activity, the specifically targeted audience for that activity and the approximate number of that audience reached will be documented on the Public Involvement/Participation spreadsheet.
- 3.2.2.10 *Automotive Maintenance and Care Brochure (OPR: Engineering).* As described in section 2.2.
- 3.2.2.10.1 Management measures addressed by this activity are pollution prevention and storage, use and disposal of household hazardous waste, automotive-related fluids, pesticides, herbicides, fertilizers.
- 3.2.2.10.2 A description of the activity, date of the activity, management measures addressed by that activity, the specifically targeted audience for that activity and the approximate number of that audience reached will be documented on the Public Involvement/Participation spreadsheet.
- 3.2.2.11 *Illicit Discharge Detection and Elimination Handout (OPR; Engineering).* As described in section 2.2.
- 3.2.2.11.1 Management measures addressed by this activity are pollution prevention, impacts on water quality or local stormwater management issues and identifying and reporting procedures for illicit connections/discharges, sanitary sewer seepage, spills, etc.
- 3.2.2.11.2 A description of the activity, date of the activity, management measures addressed by that activity, the specifically targeted audience for that activity and the approximate number of that audience reached will be documented on the Public Involvement/Participation spreadsheet.
- 3.2.2.12 *IDDE – A Grate Concern Video (OPR: Engineering) (OCR: Community Relations).* As described in section 2.2.
- 3.2.2.12.1 Management measures addressed by this activity are pollution prevention, impacts on water quality or local stormwater management issues and identifying and reporting procedures for illicit connections/discharges, sanitary sewer seepage, spills, etc.
- 3.2.2.12.2 A description of the activity, date of the activity, management measures addressed by that activity, the specifically targeted audience for that activity and the approximate number of that audience reached will be documented on the Public Involvement/Participation spreadsheet.
- 3.2.2.13 *Stormwater Pollution Found in Your Neighborhood Door Tags (OPR: Engineering).* As described in section 2.2.
- 3.2.2.13.1 Management measures addressed by this activity are pollution prevention, impacts on water quality or local stormwater management issues, storage, use and disposal of household hazardous waste, automotive-related fluids, pesticides, herbicides, fertilizers and identifying and reporting procedures for illicit connections/discharges, sanitary sewer seepage, spills, etc.
- 3.2.2.13.2 A description of the activity, date of the activity, management measures addressed by that activity, the specifically targeted audience for that activity and the approximate

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number of that audience reached will be documented on the Public Involvement/Participation spreadsheet.

3.2.2.14 *Keep Bartlett Beautiful Day (OPR: Parks).* As described in section 2.2.

3.2.2.14.1 Management measures addressed by this activity are pollution prevention and impacts on water quality or local stormwater management issues.

3.2.2.14.2 A description of the activity, date of the activity, management measures addressed by that activity, the specifically targeted audience for that activity and the approximate number of that audience reached will be documented on the Public Involvement/Participation spreadsheet.

Activity/BMP	Management Measure			
	A	B	C	D
City of Bartlett official website	X	X	X	X
Stormwater Education Booth	X	X	X	X
Preventing Stormwater Pollution PowerPoint™ presentation	X	X	X	
Tennessee Homeowner's Guide to Cleaner Water pamphlet	X	X	X	
Pet Waste & Water Quality pamphlet	X	X		
Clean Water – Everybody's Business bookmarks	X	X	X	X
City of Bartlett Official Social Media Platforms	X	X	X	X
TNSA Social Media Campaign (depending upon ad)	X	X	X	X
Detention Basin Maintenance Brochure	X	X		
Automotive Maintenance and Care Brochure	X		X	
Illicit Discharge Detection and Elimination Handout	X	X		X
IDDE – A Grate Concern Video	X	X		X
Stormwater Pollution Found in Your Neighborhood Door Tags	X	X	X	X
Keep Bartlett Beautiful Day	X	X		
A = Pollution Prevention				
B = Impacts on water quality or local stormwater management issues				
C = Storage, use and disposal of household hazardous waste, automotive-related fluids, pesticides, herbicides and fertilizers use				
D = Identifying and reporting procedures for illicit connections/discharges, sanitary sewer seepage, spills, etc.				

Table 3-1 General Public Involvement/Participation Activities and Management Measures

3.3 The Commercial and Development Communities. The Permit requires the City to conduct or sponsor a minimum of two (2) activities that address each of the management measures for the commercial and development audience portion of the PIE each reporting year. The total number of activities conducted are to be reported in the annual report including a description of the activity, date of the activity, management measures addressed by that activity, the specifically targeted audience for that activity and the approximate number of that audience reached. A Commercial and Development spreadsheet has been created to track this information and is located in the Stormwater Management Program file on the Department of Engineering's shared computer server.

3.3.1 Management Measures. The Permit identifies two (2) management measures that Commercial and Development Community activities are to address. Some activities may address only one measurement while another may address both. The goal is to address each management measure at least once during the reporting year. Those management measures are:

3.3.1.1 Pollution prevention.

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3.3.1.2 Impacts on water quality or local stormwater management issues.

3.3.2 Activities/BMPs. This section outlines the activities/BMPs that the City of Bartlett will use to address the management measures specified in the Permit for Commercial and Development Communities. Each activity/BMP identifies the OPR and, if applicable, the OCR for that activity. Additionally, each management measure the activity/BMP addresses is identified as well as when the activity is expected to occur. If there is a method to evaluate the effectiveness of the activity/BMP, it is described.

3.3.2.1 *City of Bartlett official website (OPR: Engineering) (OCR: IT)*. The City's official website has a section dedicated to public education and outreach (<https://www.cityofbartlett.org/916/Public-Education-and-Outreach>) which includes items that target the commercial and development communities. In addition to pollution prevention, the web page contains links to PSAs; permanent BMP awareness; ordinance, regulation and guidance materials; chemical applicator awareness; automotive fluid awareness; illicit discharge awareness & reporting; construction guide to cleaner water brochure; homeowner's guide to clean water brochure; pet waste & water quality brochure; landscaping, gardening & pest control brochure; food service industry brochure; heavy equipment and earth moving activities brochure; detention basin maintenance brochure; home repair & remodeling brochure; public education videos; and watershed descriptions. The targeted audience is internet users.

3.3.2.1.1 Management measures addressed by this activity are pollution prevention and impacts on water quality or local stormwater management issues

3.3.2.1.2 This activity is continuous.

3.3.2.1.3 The methodology to assess overall effectiveness of this activity is to request the City's IT department provide a history of how many times the website was visited during the reporting period. The history will be requested by the Stormwater Coordinator during preparation of the annual report.

3.3.2.1.4 A description of the activity, date of the activity, management measures addressed by that activity, the specifically targeted audience for that activity and the approximate number of that audience reached will be documented on the Commercial and Development Outreach spreadsheet.

3.3.2.2 *Construction Guide to Cleaner Waters (OPR: Engineering) (OCR: Code Enforcement)*. This brochure is used to provide local construction companies and contractors with general information concerning the impact of construction activities on water quality and provides information on how to reduce or eliminate those impacts. The brochures are distributed by the Department of Code Enforcement upon issuance of building permits and by the Department of Engineering during preconstruction meetings. The brochure is also available on the City of Bartlett's official website. The target audiences are construction companies and contractors.

3.3.2.2.1 The management measures addressed by this activity are pollution prevention and impacts on water quality or local stormwater management issues.

3.3.2.2.2 This activity is not a recurring activity and is expected to occur on an as needed basis.

3.3.2.2.3 There has been no methodology established to assess overall effectiveness of this activity but the number of brochures distributed shall be tracked. A methodology may

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be established in the future based upon guidance provided from the TDEC or the EPA.

- 3.3.2.2.4 A description of the activity, date of the activity, management measures addressed by that activity, the specifically targeted audience for that activity and the approximate number of that audience reached will be documented on the Public Education and Outreach spreadsheet.

- 3.3.2.3 *Landscaping, Gardening and Pest Control (OPR: Engineering)*. This brochure is used to provide homeowners, gardeners and landscapers with general information concerning the impact of landscaping activities on water quality and provides information on how to reduce or eliminate those impacts. The brochure is available on the City of Bartlett's official website and distributed when investigating illicit discharge complaints involving landscaping activities. The target audiences are homeowners and landscape companies and contractors.

- 3.3.2.3.1 The management measures addressed by this activity are pollution prevention and impacts on water quality or local stormwater management issues.

- 3.3.2.3.2 This activity is not a recurring activity and is expected to occur on an as needed basis.

- 3.3.2.3.3 There has been no methodology established to assess overall effectiveness of this activity but the number of brochures distributed shall be tracked. A methodology may be established in the future based upon guidance provided from the TDEC or the EPA.

- 3.3.2.3.4 A description of the activity, date of the activity, management measures addressed by that activity, the specifically targeted audience for that activity and the approximate number of that audience reached will be documented on the Commercial and Development Outreach spreadsheet.

- 3.3.2.4 *Food Services Industries Brochure (OPR: Engineering)*. This brochure is used to provide restaurants, grocery stores and bakeries with general information concerning the impact of food services activities on water quality and provides information on how to reduce or eliminate those impacts. The brochure is available on the City of Bartlett's official website and distributed when investigating illicit discharge reports involving food services activities. The target audiences are restaurants and grocery stores.

- 3.3.2.4.1 The management measures addressed by this activity are pollution prevention and impacts on water quality or local stormwater management issues.

- 3.3.2.4.2 This activity is not a recurring activity and is expected to occur on an as needed basis.

- 3.3.2.4.3 There has been no methodology established to assess overall effectiveness of this activity but the number of brochures distributed shall be tracked. A methodology may be established in the future based upon guidance provided from the TDEC or the EPA.

- 3.3.2.4.4 A description of the activity, date of the activity, management measures addressed by that activity, the specifically targeted audience for that activity and the approximate number of that audience reached will be documented on the Commercial and Development Outreach spreadsheet.

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- 3.3.2.5 *Automotive Maintenance and Car Care Brochure (OPR: Engineering)*. This brochure is used to provide professional automotive repair facilities, parts stores and motor vehicle owners with general information concerning the impact of automotive fluids on water quality and provides information on how to reduce or eliminate those impacts. The brochure is available on the City of Bartlett's official website and is distributed when investigating illicit discharge reports concerning automotive fluids. The target audiences are gas stations, auto repair shops, auto body shops, car dealerships, mobile fleet managers, mobile fleet washers and motor vehicle owners.
- 3.3.2.5.1 The management measures addressed by this activity are pollution prevention and impacts on water quality or local stormwater management issues.
- 3.3.2.5.2 This activity is not a recurring activity and is expected to occur on an as needed basis.
- 3.3.2.5.3 There has been no methodology established to assess overall effectiveness of this activity but the number of brochures distributed shall be tracked. A methodology may be established in the future based upon guidance provided from the TDEC or the EPA.
- 3.3.2.5.4 A description of the activity, date of the activity, management measures addressed by that activity, the specifically targeted audience for that activity and the approximate number of that audience reached will be documented on the Commercial and Development Outreach spreadsheet.
- 3.3.2.6 *Heavy Equipment and Earth Moving Activities Brochure (OPR: Engineering)*. This brochure is used to provide site supervisors, bulldozer, backhoe and gardening machine operators, dump truck drivers, general contractors, home builders and developers with general information concerning the impact of heavy equipment and earth moving activities on the water quality and provides information on how to reduce or eliminate those impacts. The brochure is available on the City of Bartlett's official website and is distributed when investigating illicit discharge reports concerning automotive fluids. The target audiences are site supervisors, bulldozer, backhoe and gardening machine operators, dump truck drivers, general contractors, home builders and developers.
- 3.3.2.6.1 The management measures addressed by this activity are pollution prevention and impacts on water quality or local stormwater management issues.
- 3.3.2.6.2 This activity is not a recurring activity and is expected to occur on an as needed basis.
- 3.3.2.6.3 There has been no methodology established to assess overall effectiveness of this activity but the number of brochures distributed shall be tracked. A methodology may be established in the future based upon guidance provided from the TDEC or the EPA.
- 3.3.2.6.4 A description of the activity, date of the activity, management measures addressed by that activity, the specifically targeted audience for that activity and the approximate number of that audience reached will be documented on the Commercial and Development Outreach spreadsheet.
- 3.3.2.7 *Detention Basin Maintenance Brochure (OPR: Engineering)*. This brochure is used to provide owners of detention basins with general information concerning the importance of detention basins for stormwater pollution control and provides information on how to properly maintain them. The brochure is also available on the City of Bartlett's official website. The target audience is owners of basins.

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- 3.3.2.7.1 Management measures addressed by this activity are pollution prevention and impacts on water quality or local stormwater management issues.
- 3.3.2.7.2 This activity is not a recurring activity and is expected to occur on an as needed basis.
- 3.3.2.7.3 There has been no methodology established to assess overall effectiveness of this activity but the number of brochures distributed shall be tracked. A methodology may be established in the future based upon guidance provided from the TDEC or the EPA.
- 3.3.2.7.4 A description of the activity, date of the activity, management measures addressed by that activity, the specifically targeted audience for that activity and the approximate number of that audience reached will be documented on the Commercial and Development Outreach spreadsheet.
- 3.3.2.8 *Pre-application Meetings (OPR: Engineering) (OCR: Planning).* Pre-application meetings are conducted prior to the formal process of project plan application and approval. These meetings are normally requested by the engineer/developer to gather the requirements for development or construction for a particular parcel.
- 3.3.2.8.1 Management measures addressed by this activity are pollution prevention and impacts on water quality or local stormwater management issues.
- 3.3.2.8.2 This activity is not a recurring activity and is expected to occur on an as needed basis.
- 3.3.2.8.3 There has been no methodology established to assess overall effectiveness of this activity but the number of meetings conducted shall be tracked. A methodology may be established in the future based upon guidance provided from the TDEC or the EPA.
- 3.3.2.8.4 A description of the activity, date of the activity, management measures addressed by that activity, the specifically targeted audience for that activity and the approximate number of that audience reached will be documented on the Commercial and Development Outreach spreadsheet.
- 3.3.2.9 *Pre-construction Meetings (OPR: Engineering) (OCR: Code Enforcement).* The City of Bartlett requires a pre-construction meeting for all construction activities that require permitting through the National Pollution Discharge Elimination System regardless of priority construction activity status. The pre-construction meeting is normally convened after all plan reviews have been completed, a Notice of Coverage has been issued and immediately before work commences. During the meeting, the erosion prevention and sediment control plans are reviewed to ensure the contractor/developer are aware of what is required in accordance with the plans and the Tennessee construction general permit.
- 3.3.2.9.1 Management measures addressed by this activity are pollution prevention and impacts on water quality or local stormwater management issues.
- 3.3.2.9.2 This activity is not a scheduled recurring activity and is expected to occur on an as needed basis.
- 3.3.2.9.3 There has been no methodology established to assess overall effectiveness of this activity but the number of meetings conducted shall be tracked. A methodology may

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be established in the future based upon guidance provided from the TDEC or the EPA.

- 3.3.2.9.4 A description of the activity, date of the activity, management measures addressed by that activity, the specifically targeted audience for that activity and the approximate number of that audience reached will be documented on the Commercial and Development Outreach spreadsheet.
- 3.3.2.10 *Mid-South Clean Water Day (OPR: TNSA) (OCR: Engineering)*. This activity is sponsored through TNSA. The activity involves workshops with various topics related to water quality impacts from earth disturbing activities as well as the guidance material related to minimizing those impacts. The activity includes a demonstration of the various BMPs that can be utilized to minimize the impacts earth disturbance has on water quality. Local MS4 stormwater personnel are invited to participate/co-sponsor these activities. The targeted audience is commercial and development communities.
- 3.3.2.10.1 Management measures addressed by this activity vary but may include pollution prevention and impacts on water quality or local stormwater management issues.
- 3.3.2.10.2 This activity is a recurring event expected to occur once every two years, usually in April, during the term of the Permit.
- 3.3.2.10.3 There has been no methodology established to assess overall effectiveness of this activity but the number of attendees shall be tracked. A methodology may be established in the future based upon guidance provided from the TDEC or the EPA
- 3.3.2.10.4 A description of the activity, date of the activity, management measures addressed by that activity, the specifically targeted audience for that activity and the approximate number of that audience reached will be documented on the Commercial and Development Outreach spreadsheet.
- 3.3.2.11 *Commercial and Development Group Mailing List (OPR: Engineering) (OCR: Community Relations)*. The Director of Community Relations maintains an electronic mailing list for area groups and organizations. The Stormwater Coordinator may request the Manager, or the Manager may elect to disseminate pertinent information to those on the listing. The specific goal of this activity/BMP is to provide time sensitive information and other information relevant to or of interest to group and organization members. The frequency of these mailings is dependent upon the program information and the best means for distributing that information.
- 3.3.2.11.1 Management measures addressed by this activity vary but may include pollution prevention and impacts on water quality or local stormwater management issues.
- 3.3.2.11.2 This activity is not a scheduled recurring activity and is expected to occur on an as needed basis.
- 3.3.2.11.3 There has been no methodology established to assess overall effectiveness of this activity but the number of group emails sent shall be tracked. A methodology may be established in the future based upon guidance provided from the TDEC or the EPA
- 3.3.2.11.4 A description of the activity, date of the activity, management measures addressed by that activity, the specifically targeted audience for that activity and the approximate number of that audience reached will be documented on the Commercial and Development Outreach spreadsheet.

3.3.2.12 RESERVED FOR FUTURE USE

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3.3.3 RESERVED FOR FUTURE USE.

Activity/BMP	Management Measure	
	A	B
City of Bartlett official website	X	X
Construction Guide to Cleaner Waters	X	X
Landscaping, Gardening and Pest Control Brochure	X	X
Food Services Industries Brochure	X	X
Automotive Maintenance and Car Care Brochure	X	X
Heavy Equipment and Earth Moving Activities Brochure	X	X
Detention Basin Maintenance Brochure	X	X
Pre-application Meetings	X	X
Pre-construction Meetings	X	X
Mid-South Clean Waters Day	X	X
Engineering and Development Community mailing list	X	X
A = Pollution Prevention		
B = Impacts on water quality or local stormwater management issues		

Table 3-2 Commercial and Development Communities Involvement/Participation Activities and Management Measures

**APPENDIX 1 – STORMWATER MANAGEMENT PROGRAM
SECTION 4 – ILLICIT DISCHARGE DETECTION AND ELIMINATION (IDDE)**

Section 4 - Illicit Discharge Detection and Elimination (IDDE)

Section 4.2.3 of the Permit requires the City of Bartlett to *develop, implement and enforce a program to detect and eliminate illicit discharges into the storm sewer system*. The objective is to detect and eliminate illicit discharges to the maximum extent practicable. Some elements of this section overlap with elements in other sections of the Stormwater Management Program and will not be repeated here. When applicable, those elements shall be referenced.

4.1 Minimum Program Requirements. The program must include the following items. When these items have a management measure, those management measures and the activities/BMPs will be addressed.

4.1.1 Develop, if not already completed, a storm sewer system map that includes MS4 outfalls, inputs into the storm sewer collection system, direction of stormwater flow through the system and the receiving streams.

4.1.1.1 *Storm Sewer Map (OPR: Engineering).* The City of Bartlett has developed the required storm sewer map which is maintained on the Geographic Information System (GIS) server and accessed using ArcReader. The GIS Division of the Department of Engineering and Utilities is tasked with the overall maintenance of the map.

4.1.1.1.1 The management measure for this program element is to develop a storm sewer map that contains all the required data elements listed in section 4.2.3.1 of the Permit.

4.1.1.1.2 The measurable goal is to continue to update mapping as new elements are identified.

4.1.1.1.2.1 Data obtained from as-built plans are scanned and geo-referenced to add data to the existing map. Drainage structures and outfalls are assigned unique numbers and names to ease data tracking and retrieval.

4.1.1.1.2.2 Data collected during Outfall Reconnaissance Inventories is added to the map as required. In some cases, data is removed, i.e., an outfall structure has been removed and the pipe line continued. In other cases the data may need to be revised, i.e., an outfall structure has been converted to a manhole or inlet.

4.1.1.1.3 The annual report requirement is to submit the geodatabase/shape file for the storm sewer map.

4.1.2 Effectively prohibit, through ordinance or other regulatory mechanism, non-stormwater discharges into the storm sewer system and implement an appropriate enforcement response plan (ERP).

4.1.2.1 *Stormwater Ordinance (OPR: Engineering).* The City of Bartlett has a stormwater ordinance in place to satisfy this permit requirement. The ordinance was adopted upon its third reading at a meeting of the Board of Mayor and Alderman on November 13, 2012.

4.1.2.1.1 Section 14-205(2) specifically prohibits the introduction into the system any discharge not composed entirely of stormwater. Allowable non-stormwater discharges are listed in section 14-205(3).

4.1.2.1.2 Section 14-211 outlines the enforcement response the City may exercise to achieve compliance.

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SECTION 4 – ILLICIT DISCHARGE DETECTION AND ELIMINATION (IDDE)

- 4.1.2.2 *Enforcement Response Plan (ERP) (OPR: Engineering) (OCR: Code Enforcement).* The Enforcement Response Plan (ERP) is detailed in [Section 9](#) of the Stormwater Management Program.
- 4.1.3 Develop and implement a program to detect, investigate and address non-stormwater discharges, including illegal dumping, into the system. This includes standard procedures and forms to be followed to investigate illicit discharges throughout the MS4 jurisdiction. This must include:
- 4.1.3.1 *Procedures for locating priority areas likely to have illicit discharges.*
- 4.1.3.1.1 For the purpose of the Stormwater Management Program, priority areas likely to have the potential for an illicit discharge are commercial areas comprised of restaurants, automobile parts or servicing businesses and areas with large parking areas.
- 4.1.3.2 *Procedures for tracing the source of an illicit discharge.*
- 4.1.3.2.1 The procedures used for tracing the source of an illicit discharge are the same procedures described for dry weather outfall reconnaissance inventories and are described in [Attachment 2](#).
- 4.1.3.3 *Procedures for removing the source of the discharge.*
- 4.1.3.3.1 The procedures for removing the source of the discharge is through progressive response as described in [Section 9](#) and the City's stormwater ordinance.
- 4.1.3.4 *Procedures for tracking, investigating and addressing potential illicit discharges and confirmed illicit discharges.*
- 4.1.3.4.1 The City's Magnet reporting system is used for documenting and tracking reports of potential and confirmed illicit discharges.
- 4.1.3.5 *Specify the timeframe for initiating complaint investigation within the ERP.* The ERP is described in [Section 9](#) and specifies the initial response to a complaint is not to exceed seven (7) calendar days.
- 4.1.3.6 *Initial enforcement actions for confirmed illicit discharges.* The ERP is described in [Section 9](#) and specifies that enforcement action will be taken within seven (7) calendar days of a confirmed illicit discharge.
- 4.1.3.7 *Confirmed illicit discharges eliminated.* The ERP is described in [Section 9](#) and specifies that confirmed illicit discharges are to be eliminated as soon as possible but not later than 14 calendar days of a confirmed illicit discharge.
- 4.1.3.8 *Referring to TDEC.* If the responsible party or source of a confirmed illicit discharge cannot be identified, the illicit discharge shall be referred to the local TDEC environmental field office within 14 calendar days of completing the investigation. All records and documents will be provided in the referral.
- 4.1.4 Address allowable non-stormwater discharges or flows only if the permittee identifies them as a significant contributor of pollutants to the MS4. The City of Bartlett has not identified any allowable non-stormwater discharges or flows as significant contributors of pollutants to the MS4.

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- 4.1.4.1 The management measure for this program element is to identify and investigate the categories of non-stormwater discharges or flows only if the permittee identifies them as a significant contributor of pollutants to the MS4. This management measure and its associated goals are not applicable to the City of Bartlett. See section 4.1.4 above.
- 4.1.4.2 Data for annual reporting of this item will be zero (0) and no. See section 4.1.4 above.
- 4.1.5 Inform public employees, businesses and the general public of hazards associated with illegal discharges and improper disposal of waste. This program element is addressed in [section 2, Public Education and Outreach on Stormwater Impacts](#), and in [section 3, Public Involvement/Participation](#).
- 4.1.6 Develop a mechanism for the public to report suspected illicit discharges. See section 3.1.4.
- 4.2 **Dry Weather Outfall Reconnaissance Inventories** are intended to be a structured program of detecting and eliminating sources of pollution. The goals of this program element are to detect and investigate illicit discharges and direct correction of the cause of that illicit discharge.
- 4.2.1 For the purpose of the Stormwater Management Program, an outfall is defined as any man-made structure, device or channel used to channel stormwater runoff, or acts as the discharge point for collected stormwater runoff, to waters of the State. Structures with the sole purpose of simply conveying stormwater runoff from one side of a driveway, roadway, street or highway to the other side shall not be considered an outfall. Drain structures such as yard inlets, street and parking lot drains and curb drains shall not be considered outfalls.
- 4.2.2 Outfalls to waters of the state with an opening equivalent to a circular opening of 30 inches or larger or open channels draining an area of 50 acres or more shall be inventoried at least once every five years. Outfalls, regardless of size, displaying evidence of illicit discharges are subject to more frequent inspections.
- 4.2.3 Outfall Reconnaissance Inventories are scheduled by the Stormwater Coordinator and conducted by the Construction Inspection Division of the Department of Engineering and Utilities. The following schedule shall be used for conducting the inventories, with the goal of having 100 percent of the outfalls to waters of the State inventoried at the end of the fifth year of permit implementation. The City of Bartlett has no outfalls on the Loosahatchie River.

	MEASURABLE GOALS
Goal(s)	Perform and document inspections of outfalls 30" or larger to waters of the state.
Year 1	Perform outfall inspections for Unnamed Tributary to Fletcher Creek.
Year 2	Perform outfall inspections for Harrington Creek.
Year 3	Perform outfall inspections for Buckhead Creek.
Year 4	Perform outfall inspections for Howard & Raner Creek.
Year 5	Perform outfall inspections for Oliver Creek.

- 4.2.4 Completed Outfall Reconnaissance Inventory Reports ([Attachment 1](#)) are returned to the Stormwater Coordinator for processing. The Department of Public Works is notified when outfalls have been identified as requiring maintenance. The completed forms are then forwarded to the GIS Division to update the storm sewer map and other attributes

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used to track and schedule outfall inventories. [Attachment 2](#) contains a complete description of this element of the Stormwater Management Program.

4.3 Management Measures, Goals and Annual Report Requirements. This section addresses the management measures identified in the Permit that are required to be reported as part of the annual report. Those items previously addressed will not be repeated but the applicable section will be referenced.

4.3.1 Storm Sewer Map. This management measure, goals and annual report requirements are described in section 4.1.1 above.

4.3.2 Allowable Non-stormwater Investigations. This management measure, goal and annual report requirements are described in section 4.1.4 above.

4.3.3 Illicit Discharge Reporting and Investigations. This management measure has four (4) measurable goals, each with two (2) annual report requirements.

4.3.3.1 *Track all potential illicit discharges reported, categorized by reporting source.* Magnet is used to track illicit discharge reporting and response. The annual report has requirements for two (2) sources, the general public and City employees. This item differs from that required in section 3 in that this item asks for the number of reports made by employees as well. Since Magnet is not set up to distinguish between reporting sources, the Magnet query will have to be reviewed to separate the sources.

4.3.3.1.1 The annual report will include the number of potential illicit discharges reported by the public. This number should be the same as that reported in section 3.

4.3.3.1.2 The annual report will also include the number of potential illicit discharges reported by internal personnel (public employees).

4.3.3.2 *Initiate 100% of all potential illicit discharges investigations within seven (7) calendar days of the receipt of the complaint.* The ERP (see [Section 9](#)) requires investigations to be initiated within seven (7) calendar days of receipt of the complaint.

4.3.3.2.1 The annual report will include the total number of potential illicit discharges reported, from any source, that are under investigation at the time of the annual report. Note that this does not say how many were investigated during the report period so the report will include only those under active investigation as of June 30 of the reporting year. This data can be extracted from Magnet.

4.3.3.2.2 The annual report will also include (yes/no) were all potential illicit discharges investigated within seven (7) calendar days of receipt of the complaint. Magnet shows the date the complaint is received as well as the date of the initial investigation. Unless there is some extenuating circumstance that prevented the complaint from being investigated within seven (7) calendar days, this should be answered as yes. A no response should be explained at the end of the report in the section for comments.

4.3.3.3 *100% of all initial enforcement actions shall be taken within seven (7) calendar days of the investigation on confirmed illicit discharges.* The ERP (see section 9) requires enforcement actions to be initiated within seven (7) calendar days of confirmation that an illicit discharge has occurred.

4.3.3.3.1 The annual report will include the number of identified (confirmed) illicit discharges. This data can be extracted from Magnet.

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- 4.3.3.3.2 The annual report will also include (yes/no) were all initial enforcement actions on confirmed illicit discharges taken within seven (7) calendar days of the investigation. Magnet shows the date of the investigation and the enforcement action. Unless there is some extenuating circumstance that prevented the enforcement action from being initiated within seven (7) calendar days, this should be answered as yes. A no response should be explained at the end of the report in the section for comments.
- 4.3.3.4 *100% of all corrective action plans are reviewed in accordance with procedures.* Corrective action plans are required when illicit discharge elimination will exceed 14 days from notification of the owner/responsible person of the confirmed illicit discharge. Documents can be uploaded to Magnet in order to have a complete history of the complaint.
- 4.3.3.4.1 The annual report requires the number of action plans received for confirmed illicit discharges. This information can be extracted from Magnet.
- 4.3.3.4.2 The annual report also requires (yes/no) were all corrective action plans reviewed in accordance with established procedures. Since only approved plans will be uploaded to Magnet, this should be answered yes. A no answer should be explained in the comments section of the annual report.
- 4.3.4 Educate public employees, businesses and the general public concerning the hazards and damage to water quality associated with illegal dumping and connections to the storm sewer and the improper disposal of waste. This management measure, goals and annual report requirements are described in sections 2.2 and 2.4 above.
- 4.3.5 Encourage and promote citizen reporting of illegal spillage, dumping or otherwise disposal of materials into the MS4 storm sewer system by developing and implementing a public reporting system. This management measure, goals and annual report requirements are described in section 3.1.11.4 above.

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APPENDIX 1 – STORMWATER MANAGEMENT PROGRAM
SECTION 5 – CONSTRUCTION SITE STORMWATER RUNOFF CONTROL

Section 5 - Construction Site Stormwater Runoff Control

Section 4.2.4 of the Permit requires the City of Bartlett to *develop, implement and enforce a construction site stormwater runoff pollutant control program*. Additionally, the program must address pollutants in stormwater runoff from construction activities that result in a land disturbance of one acre or more as well as land disturbances of less than one acre when part of a larger common plan of development or sale. Some elements of this section overlap with elements in other sections of the Stormwater Management Program and will not be repeated here. When applicable, those elements shall be referenced.

5.1 Minimum Program Requirements. The program must include the following items. When these items have a management measure specified in the Permit, those management measures and the activities/BMPs will be addressed.

5.1.1 An ordinance to require erosion prevention and sediment controls (EPSCs) as well as sanctions to enforce compliance.

5.1.1.1 *Stormwater ordinance (OPR: Engineering) (OCR: Code Enforcement).* The City of Bartlett has a stormwater ordinance in place to satisfy this permit requirement. The ordinance was adopted upon its third reading at a meeting of the Board of Mayor and Alderman on November 13, 2012.

5.1.1.1.1 Section 14-206(11)(a)(iv) requires that EPSC BMPs are in place prior to beginning construction.

5.1.1.1.2 Section 14-211 contains the enforcement response and abatement actions the City may take to enforce compliance.

5.1.1.1.3 Attachment 1 of the ordinance lists the initial administrative assessment for violations of the ordinance. Enforcement response is outlined in [Section 9](#) herein.

5.1.2 Requirements for construction site operators to implement appropriate EPSC best management practices (BMPs) consistent with the TDEC EPSC Handbook.

5.1.2.1 *Stormwater ordinance (OPR: Engineering) (OCR: Code Enforcement).* The City of Bartlett has a stormwater ordinance in place to satisfy this permit requirement. The ordinance was adopted upon its third reading at a meeting of the Board of Mayor and Alderman on November 13, 2012.

5.1.2.1.1 Section 14-206(1) list the design and BMP manuals for EPSCs in the City of Bartlett. The list includes the TDEC EPSC handbook.

5.1.2.1.2 Section 14-206(11)(a)(iv) requires that EPSC BMPs are in place prior to beginning construction.

5.1.2.1.3 Section 14-206(11)(c) provides for the Program Manager to stop construction or administer other enforcement actions when EPSC measures are not in place or maintained.

5.1.3 Requirements for design storm for all waters as well as special conditions for unavailable parameter waters or exceptional Tennessee waters consistent with the current Tennessee construction general permit (CGP).

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- 5.1.3.1 *Stormwater ordinance (OPR: Engineering) (OCR: Code Enforcement).* The City of Bartlett has a stormwater ordinance in place to satisfy this permit requirement. The ordinance was adopted upon its third reading at a meeting of the Board of Mayor and Alderman on November 13, 2012.
- 5.1.3.1.1 Section 14-206(6) contains the general design storm requirements for permanent stormwater management.
- 5.1.3.1.2 Although a specific design storm for EPSCs consistent with the Tennessee CGP is not listed, Section 14-206(11) requires construction activities to be in compliance with applicable permits. This would include the Tennessee CGP design storm.
- 5.1.3.1.3 The requirement for the design storm will be more fully described in the next change to the City's stormwater ordinance. The ordinance is planned for revision after issuance of a new Phase 1 permit to the City of Memphis and any appeal actions for that permit.
- 5.1.4 An inventory of actively permitted public and private construction sites. This management measure uses spreadsheets that contain the required information listed in subpart 4.2.4.d of the permit. All construction activities meeting the land disturbances limits must submit a Notice of Intent (NOI) to obtain coverage under the TDEC Construction General Permit. A copy of the NOI is also submitted to the Engineering Department as part of the plan review and approval process. The City of Bartlett uses the NOI, the Notice of Coverage (NOC) and the TDEC permit database website to maintain the City's inventory system current.
- 5.1.4.1 *Measurable goals.* The measurable goal for this management measure is to maintain an up-to-date inventory with all information identified in subpart 4.2.4.d of the permit.
- 5.1.4.1.1 Microsoft® Excel Spreadsheet (OPR: Engineering). A Microsoft® Excel spreadsheet (NPDES Permits) is used to duplicate the appropriate information obtained from the NOI, NOC and TDEC website. The spreadsheet is located in the Stormwater Management Program file on the Engineering Department shared server. In addition to using the information for the NPDES Permits spreadsheet, the information is also used to schedule and track recurring inspections outlined in Section 5.1.8, Inspection and Enforcement. The Stormwater Inspection Schedule (SWI Schedule) spreadsheet is also located in the Stormwater Management Program file on the Engineering Department shared server. Updates to the spreadsheets are made upon receipt of NOIs, NOCs, and Notice of Terminations (NOTs) or updates to the TDEC permit database. A comparison to the TDEC website information is normally accomplished monthly to ensure accuracy of the data.
- 5.1.4.1.2 The lat/long coordinates of the construction site is included in the spreadsheet. When this data is imported into the GIS system, the site locations can be mapped.
- 5.1.4.2 *Annual Report Requirement.* The annual reporting requirement for this management measure is to report the total number of active construction activities and the total number of active non-priority construction activities with incomplete inventory information.
- 5.1.4.2.1 Active construction activities is defined here as active permits that have had active construction at some point during the reporting period. This number is the total number of permits listed on the SWI Schedule spreadsheet, minus those that have been terminated, on the ending date of the reporting period, minus those that have not had active construction during the reporting period.

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- 5.1.4.2.2 Non-priority construction activities with incomplete inventory information should be reported as zero (0). Activities with incomplete inventory information should not receive an NOC and therefore would not be permitted yet.
- 5.1.5 Requirements for construction site operators to control waste. The Permit requires the City of Bartlett to establish requirements that *operators control wastes such as discarded building materials, concrete truck washout, chemicals, litter, and sanitary waste at construction sites to avoid adverse impacts on water quality.*
- 5.1.5.1 *Stormwater ordinance (OPR: Engineering) (OCR: Code Enforcement).* The City of Bartlett has a stormwater ordinance in place to satisfy this permit requirement. The ordinance was adopted upon its third reading at a meeting of the Board of Mayor and Alderman on November 13, 2012.
- 5.1.5.1.1 Section 14-206(11)(b) contains the requirement for operators to control waste at construction sites.
- 5.1.5.1.2 Section 14-211 provides for enforcement and abatement of violations of the City's stormwater ordinance.
- 5.1.5.1.3 Attachment 1 of the ordinance provides for initial assessments for violations of the City's stormwater ordinance. Violation of section 14-206(11)(b) of the ordinance is specifically addressed.
- 5.1.6 Specific procedures for construction site plan review and approval. The Permit requires the City of Bartlett to have *specific procedures for construction site plan (including erosion prevention and sediment controls) review and approval.*
- 5.1.6.1 The City of Bartlett's subdivision regulation provides the specific procedures for plan submittal, review and approval. An erosion prevention and sediment control element of the process is included.
- 5.1.6.2 The City of Bartlett's stormwater ordinance requires a copy of the construction site Stormwater Pollution Prevention Plan be submitted to the Director of the Department of Engineering and Utilities as part of the approval process. Approval of the construction project is subject to a favorable review by the Director and issuance of a Notice of Coverage from the TDEC.
- 5.1.6.3 A standard operating procedure, Construction Plan Review and Approval, has been developed to provide standard procedures for the review and approval of construction plans (see [Attachment 7](#)).
- 5.1.7 Mechanisms or plans for public access to information on new development and redevelopment projects. These mechanisms or plans for public access to information on new development and redevelopment projects have been described in section 3.1.7 herein.
- 5.1.8 Procedures for inspectors to evaluate and document construction site compliance. The City of Bartlett uses several procedures to meet this permit requirement. For the purpose of these inspections, an active construction site is a construction site with active earth disturbing activities. An inactive construction site is a construction site with no active earth disturbing activities and is stable.
- 5.1.8.1 *Routine Inspections (OPR: Engineering) (OCR: Code Enforcement).* Inspectors routinely visit active construction sites to inspect for compliance with construction codes
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and specifications. During these routine visits, noticeable problems with the installed erosion prevention and sediment control BMPs are brought to the attention of the site supervisor for correction. Routine inspections may or may not be documented depending upon the degree of non-compliance.

- 5.1.8.2 *Compliance Inspections (OPR: Engineering).* Compliance inspections are conducted at least once each month on all active priority construction sites and at least 10% of active non-priority construction sites or when corrective action has not been taken to correct deficiencies discovered during routine inspections. The inspectors use the Stormwater Inspection Report ([Attachment 3](#)) to document compliance inspections. Compliance inspections are scheduled and documented using the Microsoft® Excel spreadsheet described in Section 5.1.4.
- 5.1.8.3 *Blight Inspections (OPR: Code Enforcement).* Blight inspections are conducted twice a week for all active and inactive construction sites. The purpose of these inspections is primarily to identify deficiencies that create an image of blight for the community. From a stormwater pollution prevention aspect, these conditions include mud/sediment in the streets and erosion prevention and sediment control BMPs that are in need of maintenance. Blight inspections are documented on a Microsoft® Excel spreadsheet maintained by the Department of Code Enforcement.
- 5.1.8.4 *Priority Construction Activities Inspections (OPR: Engineering) (OCR: Code Enforcement).* Priority construction activities are defined in Section 5.1.10, Priority Construction Activities. Active priority construction activities are inspected at least once each month as described above for compliance inspections. Inactive priority construction sites will receive a compliance inspection if significant deficiencies are noted during blight inspections.
- 5.1.8.5 *Enforcement (OPR: Engineering) (OCR: Code Enforcement).* Corrective action for deficiencies discovered during blight inspections are processed through the Department of Code Enforcement. If corrective action has not occurred within 10 days of notification to the owner, the Director for Code Enforcement may ask that enforcement actions be started in accordance with the City's stormwater ordinance or the Department of Public Works may contract to have the deficiencies corrected. Cost is assessed against the owner's tax bill. Enforcement for all other inspections is processed in accordance with the procedures in [Section 9](#), Enforcement, and the stormwater ordinance.
- 5.1.8.6 *Non-priority Construction Activities Inspections (OPR: Engineering) (OCR: Code Enforcement).* The Permit requires that, at a minimum, 10% of all non-priority construction activities be inspected at least once during the reporting period. Active non-priority construction activities are inspected at least once each month as described above for compliance inspections. Inactive non-priority construction activities will receive a compliance inspection if significant deficiencies are noted during blight inspections.
- 5.1.9 Requirements for inspectors to maintain certification under the Tennessee Fundamentals of Erosion Prevention and Sediment Control, Level 1.
- 5.1.9.1 *Level 1 Certification (OPR: Engineering) (OCR: Code Enforcement).* The Director for each department shall determine who within their departments are required to obtain and maintain this certification. Although 100% inspector and key staff member certification is desirable, availability of funding and construction activity must be considered. As of the publication date of this program, all inspectors assigned to the Department of Engineering and Utilities and construction code enforcement inspectors assigned to the Department of Code Enforcement are required to have this certification.

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The Directors may, at their discretion, elect to attend or send someone else to a Level 1 certification class as a means to remaining current with changing rules as they relate to stormwater pollution prevention.

5.1.9.2 *Level 2 Certification (OPR: Engineering).* The plan reviewers are registered Professional Engineers (PEs) in the state of Tennessee and are not required to maintain Level 2 certifications. The Director for the Department of Engineering and Utilities may, at his/her discretion, elect to attend, or send an engineer to, a Level 2 certification class to remain current with changing rules as they relate to stormwater pollution prevention.

5.1.10 Priority construction activities. The Permit defines those construction activities discharging directly into or immediately upstream of waters of the state recognized as unavailable condition for siltation or Exceptional Tennessee Waters be considered priority construction activities. The City has the discretion to define other construction activities as priority construction activities.

5.1.10.1 *Priority Construction Activities.* Construction activities that discharge directly into or immediately upstream of the stream segments listed in the following table shall be considered priority construction activities. As of the publication date of this program, these streams appear on the 2022 Clean Water Act Section 303(d) list and the TDEC GIS mapping tool as having unavailable parameters for siltation. There are no Tennessee Exceptional Waters within the City of Bartlett jurisdictional area.

Stream Segment	Stream Name
TN08010209 002-0500	Buckhead Creek
TN08010209 002-0400	Oliver Creek
TN08010209 002-1000	Loosahatchie River
TN08010209 002-2000	Loosahatchie River
TN08010200 023-0100	Unnamed Tributary to Fletcher Creek

5.1.10.2 *Pre-construction Meetings.* The Permit requires that a pre-construction meeting be conducted for all priority construction activities. The City of Bartlett requires a pre-construction meeting for all construction activities that require permitting through the National Pollution Discharge Elimination System regardless of priority construction activity status. The pre-construction meeting is normally convened after all plan reviews have been completed, a Notice of Coverage has been issued and immediately before work commences.

5.1.10.3 *Inspections.* The Permit requires that an inspection of priority construction activities be conducted at least once per month. Inspections for priority construction activities are conducted as described in section 5.1.8 above.

5.1.10.4 *Documentation.* The Permit requires the documentation of procedures including related meetings and inspections. All documentations for construction activities are maintained in the activity's file maintained on the Department of Engineering and Utilities shared file server. Inspection reports are maintained in the Stormwater section of the server and transferred to the activity's file when the activity is completed.

5.2 Management Measures, Goals and Annual Report Requirements. This section addresses the management measures identified in the Permit that are required to be reported as part of the annual report. Those items previously addressed will not be repeated but the applicable section will be referenced.

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- 5.2.1 Regulatory mechanism is required to be consistent with the currently effective Tennessee Construction General Permit (CGP). This management measure will not be a reporting element for the annual report until after a subsequent CGP has been issued. See section 5.2.1.2 below.
- 5.2.1.2 *Measurable Goals.* Modifications to ordinances or other regulatory mechanisms for construction site runoff control must be effective and implemented within 18 months of the effective date of the CGP with an effective date after September 20, 2026.
- 5.2.1.3 *Annual report requirement.* Identify if the regulatory mechanisms for construction site runoff control have been updated to be consistent with CGP and are effective and implemented within 18 months of the effective date of the subsequent CGP.
- 5.2.2 An inventory of actively permitted public and private construction sites that result in a total land disturbance as defined in subpart 4.2.4d of the Permit. This management measure is described in section 5.1.4 above.
- 5.2.3 Construction site plans review and approval. This management measure is described in section 5.1.6 above.
- 5.2.3.1 *Measurable Goals.* Review and approve (or deny) 100% of all plans submitted for new development and redevelopment projects in accordance with the procedures established.
- 5.2.3.2 *Annual Report Requirements.* There are two elements required for annual reporting.
- 5.2.3.2.1 The total number of development and redevelopment plans reviewed during the reporting period is maintained in a Microsoft® Excel spreadsheet maintained in the stormwater management program portion of the Department of Engineering and Utilities shared file server.
- 5.2.3.2.2 The second element is a simple yes/no to were all new development and redevelopment projects reviewed in accordance with the established policy and procedures. Unless there is an exception, this will always be reported as yes. A no response should be explained in the comments section of the annual report.
- 5.2.4 Mechanisms or plans for public access to information on new development and redevelopment projects and receiving and considering comments from the public on those new development and redevelopment projects. The description of this management measure, measurable goals and annual reporting requirements are described in section 3.1.7 herein.
- 5.2.5 Procedures for permittee inspectors to evaluate and document construction site compliance. This management measure is described in section 5.1.8 above.
- 5.2.5.1 *Measurable Goals.* Inspect a minimum of 10% of active non-priority construction sites in accordance with the Stormwater Management Program. Active non-priority construction activities are inspected at least once each month as described for compliance inspections in section 5.1.8.2 above.
- 5.2.5.2 *Annual Report requirements.* There are two (2) elements required for annual reporting.
- 5.2.5.2.1 The total number of active non-priority construction activities. This number is obtained from the SWI spreadsheet described in section 5.1.4 above. The total number of non-priority construction activities as of the last day of the reporting period

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is counted. The number of non-priority construction activities that have been issued NOTs and the number of inactive non-priority construction activities is deducted from the total. The remaining number is then reported in the annual report.

- 5.2.5.2.2 The second element is a simple yes/no to were all non-priority construction activities inspections conducted in accordance with the Stormwater Management Program. Unless there is an exception, this should always be reported as yes. A no response should be explained in the comments section of the annual report.
- 5.2.6 Priority construction activities. This management measure is described in section 5.1.10 above. There are two (2) measurable goals and three (3) reporting requirements associated with this management measure.
 - 5.2.6.1 *Measurable Goals.* There are two (2) measurable goals associated with this management measure.
 - 5.2.6.1.1 Conduct Pre-construction meetings for 100% of Priority Construction Activities. Pre-construction meetings are described in section 5.1.10 above.
 - 5.2.6.1.2 Inspect 100% of all Priority Construction Activities at least once per calendar month. Inspections are described in section 5.1.10 above.
 - 5.2.6.2 *Annual Report Requirements.* There are three (3) elements required for annual reporting.
 - 5.2.6.2.1 Total number of Priority Construction Activities. This number is obtained from the SWI spreadsheet described in section 5.1.4 above. The total number of Priority Construction Activities is counted and the number reported in the annual report.
 - 5.2.6.2.2 The second element is a simple yes/no to did all Priority Construction Activities have a Pre-construction Meeting. Unless there is an exception, this should always be reported as yes. A no response should be explained in the comments section of the annual report.
 - 5.2.6.2.3 The third element is a simple yes/no to were all Priority Construction Activities inspected at least once per calendar month. The inspection dates are recorded on the SWI spreadsheet. Unless there is an exception, this should always be reported as yes. A no response should be explained in the comments section of the annual report.

APPENDIX 1 – STORMWATER MANAGEMENT PROGRAM
SECTION 5 – CONSTRUCTION SITE STORMWATER RUNOFF CONTROL

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APPENDIX 1 – STORMWATER MANAGEMENT PROGRAM
SECTION 6 – POST-CONSTRUCTION/PERMANENT STORMWATER MANAGEMENT IN NEW
DEVELOPMENT AND REDEVELOPMENT

Section 6 – Post-Construction/Permanent Stormwater Management in New Development and Redevelopment (waived under a settlement agreement)

Section 4.2.5 of the Permit requires the City of Bartlett include the following items to manage post-construction stormwater at all new development and redevelopment projects that disturb one (1) acre or more of land, or less than one acre if part of a larger common plan of development, and discharge into the MS4. ***Under a settlement agreement with the TDEC, this portion of the permit is not applicable to the City of Bartlett. Although updates or changes to this section may be made to be consistent with the most current edition of the Phase 2 MS4 permit, implementation will not occur pending issuance and settlement of a Phase 1 permit for the City of Memphis.***

- 6.1 Minimum Program Requirements.** The Permit requires the City of Bartlett to *develop and implement a permanent stormwater management program to reduce pollutants in stormwater discharges through management practices, control techniques, and system, design, and engineering practices implemented to the maximum extent practicable (MEP) as set forth below.*
- 6.1.1 Plans review and inspections.** The plan review and approval process is described in section 5.1.6 herein. In addition to the inspections described in section 5.1.8, inspections concerning permanent SCMs are described in sections 6.1.2.1, 6.6 and 6.7 below.
- 6.1.2 Ordinance.** The City of Bartlett *must develop and implement, and modify as necessary, an ordinance to address permanent stormwater management at new development and redevelopment projects.*
- 6.1.2.1 Stormwater ordinance.** The City of Bartlett stormwater ordinance, § 14-207, addresses the operations, maintenance and inspection of permanent stormwater management facilities. § 14-211 addresses enforcement response and abatement as well as the maximum penalty for violations which meets the maximum penalties as specified in TCA 68-221-1106. The stormwater ordinance will be modified to address the Permit requirements for permanent stormwater control measures upon issuance and settlement of a Phase 1 permit for the City of Memphis.
- 6.1.2.2 Subdivision regulation.** The City of Bartlett subdivision regulation, Article III, § 2, addresses the design requirements for stormwater drainage. Article IV, § 5 also addresses design requirements included for non-residential subdivisions. The subdivision regulation will be modified to address the Permit requirements for permanent stormwater control measures upon issuance and settlement of a Phase 1 permit for the City of Memphis.
- 6.1.3 Implementation Plan.** An implementation plan consistent with the Permit requirements of subpart 4.2.5.1d of the permit will be submitted within 90 days upon issuance and settlement of a Phase 1 permit for the City of Memphis or as required for the implementation plan for the City of Memphis, whichever is greater.
- 6.2 Permanent Stormwater Standards.** The Permit requires the permanent stormwater management program to *require new development and redevelopment projects to be designed to reduce pollutants to the MEP. Compliance is determined by designing and installing SCMs complying with the requirements of Tennessee Rule 0400-40-10-04. For design purposes, total suspended solids (TSS) may be used as an indicator for the reduction of pollutants. Under a settlement agreement with the TDEC, this portion of the permit is not applicable to the City of Bartlett. This Permit requirement will be developed in accordance with the time lines specified for the City of Memphis upon issuance and settlement of a Phase 1 permit to the City of Memphis.*

APPENDIX 1 – STORMWATER MANAGEMENT PROGRAM
SECTION 6 – POST-CONSTRUCTION/PERMANENT STORMWATER MANAGEMENT IN NEW DEVELOPMENT AND REDEVELOPMENT

- 6.2.1 Treatment Capacity. The Permit requires that SCMs be designed to provide full treatment capacity within 72 hours following the end of the preceding rain event for the life of the SCM. This design requirement will be included in the stormwater ordinance and the subdivision regulation when modified upon issuance and settlement of a Phase 1 permit for the City of Memphis.
- 6.2.1.1 SCMs used shall be consistent with those contained in the current edition of the Tennessee Permanent Stormwater Management and Design Guidance Manual. This requirement will be included in the stormwater ordinance and the subdivision regulation when modified upon issuance and settlement of a Phase 1 permit for the City of Memphis.
- 6.2.1.2 Application of innovative SCMs is encouraged. §14-206(1) of the City of Bartlett stormwater ordinance encourages designers and engineers to use new and innovative techniques that perform to at least the minimum standards contained in the stormwater design and BMP manuals. This requirement will be included in the stormwater ordinance and the subdivision regulation when modified upon issuance and settlement of a Phase 1 permit for the City of Memphis.
- 6.2.2 Water Quality Treatment Design Storm. The Permit defines the design storm as a 1-year, 24-hour storm event as defined by Precipitation-Frequency Atlas of the United States, Atlas 14, Volume 2, Version 3.0, U.S. Department of Commerce, National Oceanic and Atmospheric Administration (NOAA), National Weather Service, Hydrometeorological Design Studies Center, Silver Springs, Maryland or its digital product equivalent.
- 6.2.2.1 This requirement will be included in the stormwater ordinance and the subdivision regulation when modified upon issuance and settlement of a Phase 1 permit for the City of Memphis.
- 6.3 **Stormwater Mitigation and Public Stormwater Fund.** The Permit provides the City of Bartlett with the flexibility to develop an offsite mitigation program or payment in lieu into a public stormwater fund, or both, to offset the portion of the water quality treatment volume that cannot be treated on site to the maximum extent practicable. The City of Bartlett has elected not to establish an offsite mitigation program nor a stormwater fund.
- 6.4 **Water Quality Riparian Buffers.** The Permit requires the City of Bartlett to *develop and implement a set of requirements to establish, protect and maintain permanent water quality riparian buffers to provide additional water quality treatment in riparian areas of new development and redevelopment projects that contain streams, including wetlands, ponds, and lakes.* Section 8 of the Permit defines a water quality riparian buffer as a *permanent strip of natural perennial vegetation adjacent to a stream, river, wetland, pond or lake that contains dense vegetation made up of grass, shrubs and/or trees.*
- 6.4.1 The Permit requires permanent water quality riparian buffers be a minimum of 30 feet wide for waters with available parameters for siltation or habitat alteration and unassessed waters. A 60 foot buffer is required for waters with unavailable parameters for siltation or habitat alteration. Widths are measured from top of bank.
- 6.4.2 Appendix A of the City of Bartlett stormwater ordinance contains the requirements concerning waterway buffers. The minimum buffer is established as 60 feet from surveyed top of bank.

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- 6.4.3 Article II, §6(B) of the City of Bartlett subdivision ordinance requires buffers of greenbelt area along aquatic resource streams in accordance with the stormwater ordinance. These greenbelts are required to be dedicated to the City of Bartlett.
- 6.4.4 Management Measure. The management measure for this reporting item is to develop and implement a set of requirements to establish, protect and maintain permanent water quality riparian buffers.
- 6.4.4.1 Appendix A of the City of Bartlett stormwater ordinance establishes and implements the requirements for water quality riparian buffers.
- 6.4.4.2 In order to protect and maintain these permanent water quality buffers, Appendix A of the City of Bartlett stormwater ordinance requires water quality riparian buffers be deeded to the City of Bartlett, ensuring no future development or use outside those uses authorized in the Permit.
- 6.4.4.3 Attachment 1 of the City of Bartlett stormwater ordinance provides for administrative assessments for failure to maintain buffer zones.
- 6.4.5 Measureable Goals. The measurable goals for this management measure is 100% of projects must have the buffer as required by subpart 4.2.5.4 of the Permit (30 or 60 feet).
- 6.4.6 Annual Report Requirement. (Yes/No) *Did all of the projects approved meet the buffer requirements of subpart 4.2.5.4 of the Permit?* Unless there is an exception, this should always be answered as yes. If there was an exception, an explanation should be provided in the comments section of the Annual Report.
- 6.5 **Codes and Ordinance Review and Update.** The Permit requires the City of Bartlett to *continue to implement the existing permanent stormwater management program and update legal instruments according to the compliance schedule in subpart 4.2.5.1d* of the Permit. See section 6.1.3 above.
- 6.5.1 Stormwater Ordinance. § 14-207 of the City of Bartlett stormwater ordinance addresses the operations, maintenance and inspection of permanent stormwater management facilities. § 14-211 addresses enforcement response and abatement as well as the maximum penalty for violations which meets the maximum penalties as specified in TCA 68-221-1106. The stormwater ordinance will be modified to address the Permit requirements for permanent stormwater control measures upon issuance and settlement of a Phase 1 permit for the City of Memphis.
- 6.5.2 Subdivision Regulation. Article III, § 2 of the City of Bartlett Subdivision Regulation addresses the design requirements for stormwater drainage. Article IV, § 5 also addresses design requirements included for non-residential subdivisions. The subdivision regulation will be modified to address the Permit requirements for permanent stormwater control measures upon issuance and settlement of a Phase 1 permit for the City of Memphis.
- 6.5.3 Annual Reporting. There is no reporting requirement for this management measure.
- 6.6 **Development Project Plan Review, Approval and Enforcement.** The Permit requires the City of Bartlett to *develop and implement a project plan review, approval and enforcement procedures applicable, at a minimum, to all new development and redevelopment projects, which shall include:*
- 6.6.1 Procedures for review and approval of plans. Section 5.1.6 describes the plan review and approval process.

APPENDIX 1 – STORMWATER MANAGEMENT PROGRAM
SECTION 6 – POST-CONSTRUCTION/PERMANENT STORMWATER MANAGEMENT IN NEW DEVELOPMENT AND REDEVELOPMENT

- 6.6.2 Design review process that requires SCMs to be properly designed, installed and maintained. ***Under a settlement agreement with the TDEC, this portion of the permit is not applicable to the City of Bartlett. This Permit requirement will be developed in accordance with the time lines specified for the City of Memphis upon issuance and settlement of a Phase 1 permit to the City of Memphis.***
- 6.6.3 A verification process to document SCMs have been installed per design specifications. ***Under a settlement agreement with the TDEC, this portion of the permit is not applicable to the City of Bartlett. This Permit requirement will be developed in accordance with the time lines specified for the City of Memphis upon issuance and settlement of a Phase 1 permit to the City of Memphis.***
- 6.6.4 Management Measure. The management measure for this reporting item is to develop, implement and enforce policies and procedures for submittal and review of plans as required by subpart 4.2.5.6 of the Permit (section 6.6 of this Program). Section 5.1.6 describes this management measure.
- 6.6.5 Measurable Goals. The measurable goal for this management measure is to establish policies and/or procedures for review and approval (or denial) of plans and review for all new development and redevelopment projects. Section 5.1.6 describes these policies and procedures.
- 6.6.6 Annual Report Requirements. There are two annual report requirements for this management measure.
- 6.6.6.1 *Total number of all new development and redevelopment projects reviewed.* A Microsoft® Excel spreadsheet maintained in the stormwater management program portion of the Department of Engineering and Utilities shared file server contains the total number of development and redevelopment plans reviewed during the reporting period.
- 6.6.6.2 *Number of new development and redevelopment projects reviewed in accordance with the established policy and procedure.* This number should match the number of the total number of development and redevelopment plans reviewed. If there was an exception, an explanation should be provided in the comments section of the annual report.
- 6.7 **Maintenance of Permanent Stormwater Control Measure Assets.** ***Under a settlement agreement with the TDEC, this portion of the permit is not applicable to the City of Bartlett. This Permit requirement will be developed in accordance with the time lines specified for the City of Memphis upon issuance and settlement of a Phase 1 permit to the City of Memphis.*** The Permit requires the City of Bartlett to *develop and implement a program to require implementation of appropriate SCM maintenance procedures to sustain pollutant reduction efficiency for the life of the new development or redevelopment project.* The program must include:
- 6.7.1 The development and documentation of maintenance and inspection procedures.
- 6.7.1.1 All SCMs shall be inspected at least once every five (5) years.
- 6.7.1.2 Inspections are to be conducted by the City of Bartlett, a licensed professional engineer (PE), a licensed landscape architect or other qualified professional familiar with the applicable SCM design and maintenance requirements.

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SECTION 6 – POST-CONSTRUCTION/PERMANENT STORMWATER MANAGEMENT IN NEW
DEVELOPMENT AND REDEVELOPMENT

- 6.7.2 The development and documentation of the procedures the City of Bartlett will use to verify that SCMs are being inspected and maintained.
- 6.7.3 Clear, documented, legally binding agreements assigning SCM maintenance responsibilities.
- 6.7.4 An allowance or agreement for City of Bartlett personnel to access the SCMs for inspections and provide enforcement action for failure to maintain SCMs.
- 6.7.5 Management Measures. There are two management measures associated with this Permit requirement.
- 6.7.5.1 *Develop, implement and enforce policies and procedures for SCM installation verification as required by subpart 4.2.5.6 of the Permit.*
- 6.7.5.2 *Establish and maintain adequate legal authority assigning SCM maintenance responsibility and personnel access to the SCM and provide for enforcement action as required by subpart 4.2.5.7 of the Permit.*
- 6.7.6 Measurable Goals. There are three measurable goals associated with this Permit requirement.
- 6.7.6.1 *Verify that 100% of SCMs are installed per design specifications in accordance with the approved plan within 90 days of installation.*
- 6.7.6.2 *The permittee must have the legal authority to access SCMs and assigned maintenance responsibility for 100% of all SCMs.*
- 6.7.6.3 *The permittee must enforce as directed in the appropriate legal authority for 100% of all SCMs that have not been properly maintained.*
- 6.7.7 Annual Report Requirements. There are five annual reporting requirements for this Permit requirement.
- 6.7.7.1 *Total number of sites verified that SCMs are installed per design specifications within 90 days of installation.*
- 6.7.7.2 *(YES/NO) Were all SCMs installed per design specifications in accordance with approved plans?*
- 6.7.7.3 *(Yes/No) Does the permittee have adequate legal authority as required by subpart 4.2.5.7 for all SCMs installed?*
- 6.7.7.4 *Number of SCMs that have not been properly operated or maintained.*
- 6.7.7.5 *(Yes/No) Have enforcement actions been taken in accordance with the appropriate legal authority or ERP?*
- 6.8 **Inventory and Tracking of Permanent Stormwater Control Measure Assets. Under a settlement agreement with the TDEC, this portion of the permit is not applicable to the City of Bartlett. This Permit requirement will be developed in accordance with the time lines specified for the City of Memphis upon issuance and settlement of a Phase 1 permit to the City of Memphis.**

APPENDIX 1 – STORMWATER MANAGEMENT PROGRAM
SECTION 6 – POST-CONSTRUCTION/PERMANENT STORMWATER MANAGEMENT IN NEW DEVELOPMENT AND REDEVELOPMENT

- 6.8.1 The permit requires the City of Bartlett to implement and maintain a system to inventory and track the status of all public and private SCMs installed on new development or redevelopment projects.
- 6.8.2 The inventory and tracking system must be a searchable database that retrieves SCM information by location or other similar identification. The system should include information and records the permittee will use to demonstrate that SCMs are properly maintained, including but not limited to:
 - 6.8.2.1 A brief description of the type of SCM and basic design characteristics.
 - 6.8.2.2 The responsible party contact information.
 - 6.8.2.3 Inspection schedules (both permittee and responsible party).
 - 6.8.2.4 A brief description of or reference to maintenance procedures and frequency.
 - 6.8.2.5 Photographs of the installed SCMs.
 - 6.8.2.6 Maintenance and inspection records.
- 6.8.3 Management Measures. The management measure associated with this Permit requirement is to implement and maintain a system to inventory and track the status of all public and private SCMs as required by subpart 4.2.5.8 of the Permit.
- 6.8.4 Measureable Goals. There are two measureable goals associated with this Permit requirement.
 - 6.8.4.1 *The system must be made available to the Division or members of the public upon request.*
 - 6.8.4.2 *100% of all SCMs must be included in the inventory tracking system with complete information.*
- 6.8.5 Annual Report Requirements. There are four annual report requirements associated with this Permit Requirement.
 - 6.8.5.1 *Total number of request for the inventory.* This number includes request made by the TDEC as well as the public.
 - 6.8.5.2 *(Yes/No) Are all SCMs in the inventory tracking system?*
 - 6.8.5.3 *(Yes/No) Do all SCMs in the inventory tracking system have complete information?*
 - 6.8.5.4 *Beginning with the 2025 annual report, submit the SCM tracking system information with the annual report.*

**APPENDIX 1 – STORMWATER MANAGEMENT PROGRAM
SECTION 7 – POLLUTION PREVENTION/GOOD HOUSEKEEPING**

Section 7 - Pollution Prevention/Good Housekeeping

Section 4.2.6 of the Permit requires the City of Bartlett to *develop and implement an operation and maintenance program that has the ultimate goal of preventing or reducing pollutant runoff from municipal operations*. The goals of this program are to prevent or reduce the amount of storm water pollution generated by municipal operations and conveyed into receiving waters, train employees on how to incorporate pollution prevention and good housekeeping techniques into municipal operations and identify appropriate BMPs and measurable goals for preventing or reducing the amount of stormwater pollution generated by municipal operations and facilities.

7.1 Employee Training (OPR: Engineering) (OCRs: Public Works and Parks). The Permit requires the program to include employee training *for employees responsible for municipal operations at facilities within the jurisdiction of the permittee that handle, generate and/or store materials which constitute a potential pollutant of concern for MS4s*. The employee training program is described in [section 2.4](#) herein.

7.2 Operation and Maintenance Program (OPR: Engineering) (OCRs: Public Works and Parks). The Permit requires the City of Bartlett to *develop an operation and maintenance (O&M) program detailing the activities and procedures the permittee will implement so that the MS4 infrastructure is maintained to reduce the discharge of pollutants from the MS4*.

7.2.1 Standard Operating Procedures. The City of Bartlett has developed numerous Standard Operating Procedures (SOPs) in an effort to minimize potential impacts of municipal activities on water quality. One of the primary goals of these SOPs is to provide time tested, accepted routine procedures to minimize the release of pollutants from a site during the performance of municipal operations. Each owning agency has a copy of the applicable SOP and is responsible for its contents. Each SOP is contained in [Attachment 7](#) of this appendix.

7.2.2 Municipal Facilities Stormwater Pollution Prevention Plans. Each municipal facility that handles, stores or generates pollutants has an existing fixed facility inventory plan that identifies the pollutants of concern for that facility and inspection certification. New stormwater pollution prevention plans (SWPPPs) are being developed for these facilities and will be implemented as they are developed.

7.2.2.1 A SWPPP will be prepared for Public Works Fleet Services, Public Works Maintenance area, Public Works Solid Waste Transfer Station, Public Works Grounds Maintenance and Parks Grounds Maintenance.

Facility	SWPPP Implementation
Public Works Fleet Services	2024
Public Works Maintenance Area	2025
Public Works Solid Waste Transfer Station	2026
Public Works Grounds Maintenance	2027
Parks Grounds Maintenance	2027

7.2.2.2 Each SWPPP is maintained by the owning facility.

7.2.2.3 A comprehensive facility inspection (checklist contained in SWPPP) shall be performed and documented at least once each reporting period. The completed inspection certification form will be maintained with the SWPPP and a copy forwarded to the City of Bartlett Stormwater Coordinator for record keeping and annual reporting. Facilities will use the existing fixed facility plan until the SWPPP for that facility is developed and is implemented.

APPENDIX 1 – STORMWATER MANAGEMENT PROGRAM
SECTION 7 – POLLUTION PREVENTION/GOOD HOUSEKEEPING

- 7.2.3 Management Measures. The management measures for employee training are addressed in section 2.4 herein. There are two management measures addressing the O&M program.
- 7.2.3.1 *Develop and implement an O&M facility plan.* The O&M plan is a combination of employee training (section 2.4 herein), SOPs (section 7.2.1 above) and facility SWPPPs (section 7.2.2 above).
- 7.2.3.2 *Facility site inspections.* Existing facility plans are being utilized to conduct facility inspections. Once the new SWPPP for a facility has been developed, the comprehensive facility inspection checklist contained in the SWPPP will be used.
- 7.2.4 Measurable Goals. The measurable goals for employee training are addressed in section 2.4 herein. There are two measurable goals addressing the O&M program.
- 7.2.4.1 *All applicable municipal operations must have an O&M facility plan.* Section 7.2.2 list the facilities that have an O&M facility plan.
- 7.2.4.2 *Conduct a facility site inspection in accordance with the Stormwater Management Program at all municipal operation facilities at least once every 12 months.* Facility site inspections are required to be conducted at least once per reporting period. Documentation of these inspections are maintained by the facility owner and the Stormwater Coordinator.
- 7.2.5 Annual Report Requirements. Annual report requirements for employee training are addressed in section 2.4 above. There are three annual report requirements for the O&M program.
- 7.2.5.1 *Number of municipal facilities.* As detailed in section 7.2.2 above, there are five (5) municipal facilities.
- 7.2.5.2 *(Yes/No) Do all municipal operations facilities have an O&M plan?* Until a new facility plan has been developed for the new Public Works Fleet Services area, this item will be answered “no” with the comments section explaining why. Other facilities will continue using their existing facility plans until new SWPPPs are developed.
- 7.2.5.3 *Number of municipal operations facilities NOT inspected in accordance with the Stormwater Management Program in the previous 12 months.* Unless there is an exception and until a new facility plan is developed for the Public Works Fleet Services area, this item will be answered “1” with the comments section explaining why. Other facilities will continue inspections using their existing facility plans until new SWPPPs have been developed.

**APPENDIX 1 – STORMWATER MANAGEMENT PROGRAM
SECTION 8 – STORMWATER MANAGEMENT PROGRAM MODIFICATION**

Section 8 – Stormwater Management Program Modification

Section 4.4 of the Permit allows the City of Bartlett to make stormwater management program modifications in accordance with the following:

- 8.1 **Minor Modifications.** Minor modifications that add, but neither subtract nor replace, components, controls or requirements to the stormwater management program may be made at any time.
 - 8.1.1 Minor modifications do not require formal public notice but should be included in the Annual Report.
 - 8.1.2 Minor modifications that replace an ineffective or infeasible BMP/SCM which is specifically identified in the Stormwater Management Program shall be included in the Annual Report to include:
 - 8.1.2.1 A description of the replacement BMP/SCM.
 - 8.1.2.2 An analysis of why the former BMP/SCM was ineffective or infeasible.
 - 8.1.2.3 Expectations on the effectiveness of the replacement BMP/SCM.
 - 8.1.2.4 An analysis of why the replacement BMP/SCM will ensure the optimization of equipment use.
 - 8.1.3 Additions of facilities covered under the Permit will be included in the Annual Report.
- 8.2 **Major Modifications.** Major modifications are modifications that subtract BMPs/SCMs, components, controls or requirements of the Stormwater Management Program.
 - 8.2.1 Major modifications require formal public notice as described in section 3.1.6 herein. TDEC-DWR shall be included in the distribution list.
 - 8.2.2 Modifications may not be made unless it can be clearly demonstrated that the eliminated of the component will allow the Stormwater Management Program to continue to achieve a reduction in pollutants to the MEP and shall not cause or contribute to violations of State water quality standards in the receiving stream. Modifications will be included in the subsequent Annual report to include:
 - 8.2.3.1 A description of the component that has been eliminated.
 - 8.2.3.2 An analysis of why the component was ineffective or infeasible.
 - 8.2.3.3 A detailed explanation of why, with the elimination of this component, the Stormwater Management Program will continue to achieve a reduction in pollutants to the MEP and shall not cause or contribute to violations of State water quality standards in the receiving stream.
- 8.3 **Annual Report Requirements.** Annual report requirements are described in sections 8.1 and 8.2 above.
- 8.4 **Transfer of Ownership, Operational Authority or Responsibility.** The City must implement the Stormwater Management Program in any new areas added to the City as expeditiously as practicable, but not later than one (1) year from the addition of the new area.

APPENDIX 1 – STORMWATER MANAGEMENT PROGRAM
SECTION 8 – STORMWATER MANAGEMENT PROGRAM MODIFICATION

- 8.4.1 Implementation may be accomplished in a phased manner to allow additional time for controls that cannot be implemented within one (1) year.
- 8.4.2 Within 90 days, the City must have a plan for implementation in newly annexed areas.
- 8.4.3 Information on newly annexed areas and resulting updates required to the Stormwater Management Program must be included in the Annual Report.

**APPENDIX 1 – STORMWATER MANAGEMENT PROGRAM
SECTION 9 – ENFORCEMENT**

Section 9 - Enforcement

Section 4.5 of the Permit requires the City of Bartlett to develop and implement an enforcement response plan (ERP) that *sets out the MS4's potential responses to violations and addresses repeat violations through progressive enforcement as needed to achieve compliance*. It is envisioned that the ERP consist of a suite of tools including policies and ordinances to achieve compliance. Policies developed to achieve the goals of this program element shall be included in this section of the Stormwater Management Program. Any ordinance and regulatory tools not already in place shall be included in revisions to the stormwater ordinance or subdivision regulation as applicable.

- 9.1 Stormwater Ordinance.** The City's stormwater ordinance was adopted upon its third reading at a meeting of the Board of Mayor and Alderman on November 13, 2012 and includes the ERP. This ordinance provides the City of Bartlett with the legal authority and ability to employ progressive enforcement actions as described in the Permit and to escalate enforcement responses where necessary to address persistent non-compliance, repeat or escalating violations, or incidents of major environmental harm.
- 9.2 Enforcement Actions.** The Permit requires the ERP to describe *how the MS4 will use each of the following types of enforcement responses*.
- 9.2.1 Verbal Warnings.** *At a minimum, verbal warnings should be as specific as possible to the nature of the violation and be documented.* §14-211(1)(a) of the City's stormwater ordinance provides for verbal warnings. Verbal warnings issued during routine inspections shall be documented in the applicable inspection log, a copy of which will be provided to the Stormwater Coordinator for tracking purposes. Verbal warnings resulting from response to complaints through the *Magnet System* will be documented in the *Magnet System*.
- 9.2.2 Written Notices.** *Written notices must stipulate the nature of the violation and the required corrective action, with deadlines for taking such action.* §14-211(1)(b) of the City's stormwater ordinance provides for written notification in the forms of notices of non-compliance and notices of violations. Corrective action is expected to be completed within seven days.
- 9.2.3 Citations with Administrative Penalties.** The ERP must *indicate when the MS4 will assess monetary penalties, which may include civil and administrative penalties.* §14-211(2) of the City's stormwater ordinance provides for civil and administrative penalties. §14-211 also provides for enforcement to be applied progressively until compliance is achieved but allows enforcement to be administered in any sequence the Manager deems appropriate for the violation.
- 9.2.4 Stop Work Orders.** The MS4 must *have the authority to require activities to be halted, except for those activities directed at cleaning up, abating discharge, and installing appropriate control measures.* §14-211(1)(b) of the City's stormwater ordinance gives the Manager authority to issue an order to cease and desist. Additionally, Article IV, §12(B) of the subdivision ordinance gives the Manager authority to issue a stop work order for failure of a developer to comply with any portion of that ordinance.
- 9.2.5 Withholding of Plan Approvals or Other Authorizations.** *Where a facility is in non-compliance, the ERP may address how the MS4's approval process affecting the facility's ability to discharge to the MS4 can be used to abate the violation.* §14-211(1)(e) of the City's stormwater ordinance authorizes the Director to withhold approvals or other authorizations.

APPENDIX 1 – STORMWATER MANAGEMENT PROGRAM
SECTION 9 – ENFORCEMENT

- 9.2.6 Civil Penalties. *The MS4 must have the authority for the maximum penalties per day for each day of violation as specified in TCA 68-221-1106. §14-211(2)(b) of the City's stormwater ordinance authorizes assessments of civil penalties up to the maximum amount permitted by TCA 68-221-1106.*
- 9.2.7 Additional Measures. *The MS4 may also use other escalated measures provided under local legal authorities. The MS4 may perform work necessary to improve erosion control measures and collect the funds from the responsible party in an appropriate manner, such as collecting against the project's bond or directly billing the responsible party to pay for work and material. Article 4, §7(A)(1), of the City's subdivision regulation provides authority to the Program Manager to make the necessary improvements to eliminate an erosion problem and requiring the owner to pay all expenses associated with the work. The same authority is provided in §14-207(8) of the City's stormwater ordinance.*
- 9.2.8 Enforcement Response. Initial response to complaints will not exceed seven (7) calendar days.
- 9.2.8.1 When an illicit discharge has been confirmed, enforcement action shall be taken within seven (7) days of confirmation of the illicit discharge.
- 9.2.8.2 Corrective actions (illicit discharge elimination) will begin as soon as possible with the discharge eliminated within 14 calendar days of confirmation of the illicit discharge. If corrective action cannot be completed within 14 calendar days, a corrective action plan is required.
- 9.2.8.3 If the responsible party or source of a confirmed illicit discharge cannot be identified, the illicit discharge shall be referred to the local TDEC environmental field office within 14 calendar days of completing the investigation. All records and documents will be provided in the referral
- 9.3 **NPDES Permit Referrals.** The Permit requires the City of Bartlett to report construction activities or industrial facilities that are subject to the construction general permit or the industrial general permit to the local environmental field office in the following cases:
- 9.3.1 No Permit. If the MS4 becomes aware of a construction or industrial activity that must be permitted under an NPDES permit but the activity is not permitted.
- 9.3.2 Noncompliance. If the MS4 has not been able to bring an NPDES permitted activity into compliance with the MS4s stormwater and water pollution related ordinances using the MS4s enforcement mechanisms and protocols. §14-211 of the City's stormwater ordinance provides authority to the Program Manager to file a complaint with the TDEC if he/she feels it is necessary to obtain compliance.
- 9.4 **Enforcement Tracking.** The Permit requires the City of Bartlett to *track instances of non-compliance either in paper files or electronically.*
- 9.4.1 Electronically. The Magnet System described in Section 4 is utilized to track instances of non-compliance as well as the actions taken to obtain compliance. These enforcement actions are normally not construction related.
- 9.4.2 Paper Files. Paper files are utilized to augment the electronic files for construction projects where a project file is maintained. All written enforcement correspondence is scanned and maintained in portable document format (PDF) for the length of time specified in the stormwater ordinance or the Permit, which ever is longer.

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- 9.5 **Requirements for Chronic Violators.** The Permit requires the City of Bartlett to *identify chronic violators of any Stormwater Management Program component and reduce the rate of noncompliance recidivism*. The City of Bartlett uses the enforcement tracking procedures identified in Section 9.4 as well as the enforcement actions described in Section 9.2 to identify chronic violators. §14-211(2)(b) of the City's stormwater ordinance provides for additional enforcement for chronic violators.
- 9.6 **Annual Report Requirements.** Tracking data in Magnet and the paper files for construction activities are used to provide a summary of the enforcement actions during the reporting period. The number of each type of enforcement action, described in section 9.2., is to be reported.

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Section 10 – Stormwater Monitoring and Program Evaluation

10.1 Monitoring Program, Sampling Requirements and Reporting.

10.1.1 Monitoring. The Permit requires the City of Bartlett to *develop and implement a monitoring and assessment program that provides data and information to identify pollutant sources and aids in determining the effectiveness of the stormwater management program. A description of this program must be included in the Stormwater Management Program.* The Permit provides for two options that the City may choose from to meet the objectives of the monitoring program. *Regardless of the option chosen, the permittee shall perform monitoring as prescribed for stream segments subject to EPA approved TMDLs as applicable to the MS4 jurisdiction.* The City of Bartlett has elected to develop a jurisdictional-specific monitoring plan in compliance with the objectives for option 2.

10.1.1.1 Option 2 Monitoring Plan. The monitoring plan must meet, at a minimum, the objectives of subpart 4.6.1.1 a through e of the Permit.

10.1.1.1.1 Justification for stream selections. Those streams selected for bacteriological and nutrient sampling are identified on the most recent State's 303(d) list as having unavailable parameters for pathogens and nutrients. Streams with unavailable parameters for siltation will not be sampled directly but shall be monitored through construction inspections. Two (2) segments of the Loosahatchie River will not be included in any sampling since the City of Bartlett MS4 does not have outfalls directly connected to them.

Stream Segment	Stream Name	E.Coli	Nutrients
TN08010209 002-0400	Oliver Creek	X	X
TN08010209 002-0500	Buckhead Creek	X	X
TN08010209 002-0700	Howard Creek	X	X
TN08010209 002-1000	Loosahatchie River	N/A	N/A
TN08010209 002-2000	Loosahatchie River	N/A	N/A
TN08010210 001-0100	Harrington Creek	X	X
TN08010210 023-0100	Unnamed Tributary to Fletcher Creek	X	N/A

Table 10-1, Streams to be Sampled

10.1.1.1.2 Identification and source determination of pollutants of concern. This objective is met through the use of the 303(d) list. The list identifies the pollutant of concern and the source. Section 10.1.1.1.3.5 below describes the process for isolating the pollutant source if the source is a point discharge.

Water Body Name	Pollutant of Concern	Pollutant Source
Oliver Creek	Nutrients, sedimentation/siltation and Escherichia coli	Discharges from MS4 area and land development
Buckhead Creek	Dissolved oxygen, sedimentation/siltation, nutrients and Escherichia coli	Discharges from MS4 area and land development
Howard Creek	Nutrients and Escherichia coli	Discharges from MS4 area
Harrington Creek	Dissolved oxygen, nutrients and Escherichia coli	Discharges from MS4
Loosahatchie River (TN08010209 002-1000)	Mercury, lead, chlordanes, PCBs, dioxin, nutrients, sedimentation/siltation, physical substrate habitat alterations, and Escherichia coli	Contaminated sediment, discharges from MS4 area, crop production, atmospheric deposition, land development

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		and channelization
Loosahatchie River (TN08010209 002-2000)	Escherichia coli, nutrients, physical substrate habitat alterations, and sedimentation/siltation	Discharges from MS4 area, crop production, land development, and channelization.
Unnamed Tributary to Fletcher Creek	Alteration in stream-side or littoral vegetative covers, arsenic, dissolved oxygen, physical substrate habitat alterations and Escherichia coli	Discharges from MS4 and channelization

Table 10-2, Pollutants of Concern and Source Identification from 303(d) List

10.1.1.1.3.3 Monitoring Details. As of the publication date, Waypoint Analytical, Inc. has been selected to collect and analyze samples and report results to the City of Bartlett.

10.1.1.1.3.3.1 Bacteriological stream sampling is performed in streams that have been identified with unavailable parameters for pathogens ([Table 10-1](#)) utilizing methods identified in the TDEC Quality System Standard Operating Procedure for Chemical and Biological Sampling of Surface Water. Water quality parameters are not required to be obtained.

10.1.1.1.3.3.2 Nutrient stream sampling is performed in streams that have been identified with unavailable parameters for nutrients ([Table 10-1](#)) utilizing methods identified in the TDEC Quality System Standard Operating Procedure for Chemical and Biological Sampling of Surface Water. Water quality parameters are not required to be obtained. Sampling will be for total nitrogen and total phosphorous.

10.1.1.1.3.3.3 At least one sample a month for 12 months will be collected for stream segments as identified in [Table 10-1](#) within a five-year period. A set of five samples will be obtained during one of the months of June through September for each stream segment in order to calculate a geometric mean. This set will replace the normal monthly sampling for that segment. The following table outlines the sampling schedule

Stream Segment	Stream Name	Sample Year
TN08010209 002-0400	Oliver Creek	2027
TN08010209 002-0500	Buckhead Creek	2026
TN08010209 002-0700	Howard Creek	2027
TN08010210 001-0100	Harrington Creek	2025
TN08010210 023-0100	Unnamed Tributary to Fletcher Creek	2024

10.1.1.1.3.3.4 Sampling locations will be at the established TDEC monitoring sites whenever possible. However, additional locations may be required for source identification or more effective land use monitoring. When identifying additional monitoring locations, station identification numbers will be established using the procedures found in the TDEC Quality System Standard Operating Procedure for Chemical and Biological Sampling of Surface Water, Protocol B. Station identification numbers for the unnamed tributary to Fletcher Creek and Harrington Creek were established using Protocol B. The following table identifies the sampling sites that will be used as of the publication date of this Program.

Stream Name	Location	Coordinates	Station ID
Oliver Creek	At Old Brownsville Road, south of bridge	-89.764830	OLIVE001.3SH
		35.263708	
Buckhead Creek	At Old Brownsville Road, south of bridge	-89.801716	BUCKH002.1SH
		35.261746	

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Howard Creek	At Old Brownsville Road, south of box culvert	-89.864729	HOWAR002.1SH
		35.258023	
Harrington Creek	At Elmore Road	-89.880476	HARRI002.5SH
		35.191118	
Unnamed tributary to Fletcher Creek	At Stage Road, north of bridge	-89.870557	FLETC4.4TO1.0SH
		35.204515	

- 10.1.1.1.3.5 If any monthly sampling analysis for pathogens results in an exceedance of 941 CFU/100 mL, another sample, obtained by City of Bartlett personnel, will be obtained upstream of the normal monitoring location at the first junction of any blue line branches. This sampling is intended to help isolate the source of the exceedance. Sample locations will continue upstream until the exceedance no longer occurs. At this point, the source should be between the point of exceedance and the point of non-exceedance. Additional sampling may be required to more accurately locate the source.
- 10.1.1.1.3.6 Analytical monitoring for stream segments subject to TMDLs shall be performed as prescribed in the TMDL. As of the date of publication of this Program, an EPA approved TMDL for E.coli exists for the Loosahatchie River and for Fletcher Creek. These TMDLs do not specifically list a monitoring requirement. Future TMDLs will be reviewed to assess their impact on this portion of the Plan.
- 10.1.1.1.4 Records Requirements. Sampling reports provided by WayPoint Analytical, Inc. shall be maintained in the Stormwater Management Program portion of the Engineering shared file server. Sampling results shall be documented in an Excel spreadsheet for ease of access for comparison to historical sampling for trend analysis. All monitoring records will be maintained for a minimum of three years or for the length of the permit period, whichever is longer. The request for bids requires the contractor to include information required by section 7.13 of the permit with sampling results
- 10.1.1.1.5 Description of how the City of Bartlett will evaluate stormwater impacts to receiving streams. Visual Stream Surveys (VSSs) will be performed immediately upstream and downstream of each outfall equivalent in size to a 30" diameter pipe that discharges into a stream segment as identified in section 10.1.1.1.3.3 above. The VSS will be scored to evaluate the stormwater impacts on the receiving stream.
- 10.1.1.1.5.1 The City of Bartlett performs the VSS using a modified version of the State of Maryland Department of Natural Resources visual stream assessment. A copy of the survey form is at [attachment 7](#) of this appendix.
- 10.1.1.1.5.2 In addition to recording the information on the VSS form, photographs of the outfall, the stream bank across from the outfall, the upstream side of the outfall and the downstream side of the outfall (as applicable) shall be taken.
- 10.1.1.1.5.3 The data collected will be stored electronically and linked to the outfall identification tag in such a way as to allow sorting of the data by the numerical score associated with the outfall. Sorting in this manner allows for prioritizing expenditure of funds for future mitigation or stream bank repair.
- 10.1.1.1.6 Description of how data will be gathered to inform program decisions and prioritization of future activities related to the protection of water quality. This program requirement has been fully described above.
- 10.1.1.1.7 Acknowledgement that TDEC protocols will be used for instream monitoring. This program requirement has been fully described above.

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- 10.1.1.1.8 Provisions for an administratively continued small MS4 permit. The procedures and methods described in this section will continue until a new permit is issued by the TDEC. If a new permit is not issued in 2027, four (4) years will be added to the each date identified in section 10.1.1.1.3.3 and sampling continued as described. Modifications to the program may be made after 2027 based upon the results obtained from the 2022 permit cycle. Any changes are to be coordinated with the TDEC.
- 10.1.1.1.9 On November 11, 2023, the City of Bartlett was notified that the TDEC Division of Water Resources acknowledged receipt of an acceptable Option 2 monitoring plan, as described herein. Any changes to the monitoring plan will need to be coordinated through TDEC.
- 10.1.2 Sampling Methods and Procedures. Sampling methods and procedures are fully described in section 10.1.1 above.
- 10.1.2.1 *Representative Sampling.* Sampling at those sampling sites identified in section 10.1.1 are representative for the streams being sampled. They are located at points where the stream segments leave the jurisdictional areas of the City of Bartlett.
- 10.1.2.2 *Test Procedures.* Sample testing is accomplished by a certified testing laboratory as described in section 10.1.1 above.
- 10.1.3 Annual Report Requirements. The Permit requires the City of Bartlett to perform monitoring in accordance with the Stormwater Management Program.
- 10.1.3.1 The measurable goal for this management measure is to perform monitoring in accordance with the approved Option 2 monitoring plan.
- 10.1.3.2 There are three (3) annual report requirements.
- 10.1.3.2.1 (Yes/No) Monitoring for the reporting year has been performed in accordance with 4.6.1.1.2 (Option 2). Unless there is an exception, this will always be answered as yes.
- 10.1.3.2.2 Provide a summary of monitoring results. Provide a brief synopsis of the pathogen, nutrient and VSS results. For pathogen and nutrients, report the high and low sampling results, average for the year and the mean obtained from the five in 30 day sampling. Include the identification of any sources that may have been eliminated as a result of sampling investigations. For VSSs, report the number performed and average score. Indicate if any maintenance resulting from the VSS.
- 10.1.3.2.3 Upload a copy of all monitoring data. Upload a copy of all reports for pathogen and nutrient sampling. Upload the completed VSS forms.
- 10.2 Stormwater Management Program Evaluation**
- 10.2.1 The Permit requires the City of Bartlett to conduct an annual evaluation of the City's stormwater management program to evaluate compliance with the terms and conditions of the permit.
- 10.2.1.1 The evaluation shall be conducted while preparing the annual report.
- 10.2.1.2 If the management measures of the permit are being met, the program is in compliance with the terms and conditions of the permit.

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10.2.1.3 If management measures are not being met, identify the shortfalls and corrective actions required to achieve compliance.

10.2.2 The Permit also requires the City of Bartlett to conduct an annual evaluation of the effectiveness of the BMPs, components or controls of the stormwater management program.

10.2.2.1 The evaluation shall be conducted while preparing the annual report.

10.2.2.2 Ensure BMPs, components or controls of the stormwater water management program are contributing to meeting the management measures of the Permit.

10.2.2.3 BMPs, components or controls that are not effective in achieving management measures should be considered for replacement.

10.2.3 Annual report requirements for stormwater management program evaluation

Management Measure	Measurable Goals	Annual Report Requirement
Conduct an annual evaluation of the current Stormwater Management Program for every reporting period.	Summarize evaluation results	Narrative description
	Identify modifications or replacement of an ineffective activity/control measure/component/BMP	Narrative description
	Summarize the assessment results and any modifications and improvements scheduled to be implemented in the next reporting period to improve the program or remedy deficiencies or weaknesses	Narrative description
MCM status determination	Indicate compliance status for each of the six MCMs and the monitoring program	Compliant with Permit requirements? Yes/No If no, provide more details.

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Attachment 1

Outfall Reconnaissance Inventory Report

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Outfall Reconnaissance Inventory Report

Section 1: Background Data

Outfall No: _____	Current Weather Conditions: _____
Outfall Type: ☐ Inlet ☐ Outlet	
Date of Inventory: _____	
Inventoried By: _____	
Camera Picture No: _____	
Land Use in Drainage Area (Check all that apply)	Notes: _____
☐ Industrial ☐ Urban Residential ☐ Suburban Residential ☐ Open Residential ☐ Commercial Urban ☐ Commercial Rural ☐ Open Area ☐ Other: _____	Known Industries: _____ Known Industries: _____

Section 2: Outfall Description

Location	Material	Shape	Dimensions (Inches)	Submerged
☐ Closed Pipe	☐ RCP ☐ PVC ☐ Steel ☐ CMP ☐ HDPE ☐ Other: _____	☐ Circular ☐ Single ☐ Elliptical ☐ Double ☐ Box ☐ Triple ☐ Other: _____	Diameter/Dimension: _____ _____	In Water: ☐ No ☐ Partially ☐ Fully
☐ Open Drainage	☐ Concrete ☐ Earthen ☐ Rip-rap ☐ Other: _____	☐ Trapezoid ☐ Parabolic ☐ Other: _____	Depth: _____ Top Width: _____ Bottom Width: _____	
Flow Present? ☐ Yes ☐ No (If no, Skip to Section 4)				

Section 3: Physical Indicators for Flowing Outfalls

Indicator	Present?	Description	Relative Severity Indices M(1-3)
Odor	☐ Yes ☐ No	☐ Sewage ☐ Sulfide ☐ Rancid/Sour ☐ Petroleum/Gas ☐ Other: _____	☐ 1-Faint ☐ 2-Easily Detected ☐ 3-Noticeable from a distance
Color	☐ Yes ☐ No	☐ Clear ☐ Brown ☐ Orange ☐ Yellow ☐ Green ☐ Gray ☐ Red ☐ Other: _____	☐ 1-Faint ☐ 2-Easily Detected ☐ 3-Noticeable from a distance
Turbidity			☐ 1-Slight ☐ 2-Cloudy ☐ -Opaque
Floatable	☐ Yes ☐ No	☐ Human Sewage ☐ Suds ☐ Petroleum sheen ☐ Other: _____	☐ 1-Few Origin not obvious ☐ 2-Some indication of origin ☐ 3-Some; origin clear

Section 4: Physical Characteristics of Headwall

Indicator	Present?	Description	Comments
Headwall Damage	☐ Yes ☐ No	☐ Spalling, Cracking or Chipping ☐ Peeling Paint ☐ Corrosion	
Deposits/Stains	☐ Yes ☐ No	☐ Oily ☐ Paint ☐ Flow Line ☐ Other	
Abnormal Vegetation	☐ Yes ☐ No	☐ Excessive ☐ Inhibited	
Poor Pool Quality	☐ Yes ☐ No	☐ Odors ☐ Oil Sheen ☐ Suds ☐ Floatables ☐ Colors ☐ Other ☐ Excessive Algae	
Pipe Benthic Growth	☐ Yes ☐ No	☐ Brown ☐ Green ☐ Orange ☐ Other	

Section 5: Headwall Potential Failure

☐ Low (unlikely) ☐ Medium (presence of 2 or more indicators) ☐ High (one or more indicators with 3 that are severe)
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Section 6: Comments and Any Non-Illicit Discharge Concerns (ex: trash, needed repairs, erosion)

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Attachment 2

Outfall Reconnaissance Inventory Procedures

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**APPENDIX 1 – STORMWATER MANAGEMENT PROGRAM
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Outfall Reconnaissance Inventory Procedures

1. **Procedure:** The following procedures shall be used to facilitate outfall reconnaissance inventories. Coordination between the participating agencies shall be the responsibility of the City of Bartlett Stormwater Coordinator. The agency required to perform a task shall develop and implement any necessary procedures required to fulfill the program or task objectives. In order to more easily detect illicit discharges, inventories shall be accomplished during periods of dry weather.
 - a. Identify and map all outfalls within the City of Bartlett.
 - i. The Department of Engineering Construction Inspection Division shall conduct an initial inventory and inspection of each outfall in the City of Bartlett for the purposes of identifying each outfall, mapping the location and attributes using the GIS system, identifying any required maintenance, and identifying evidence of or actual illicit discharges.
 - ii. After the initial inspection, outfalls not requiring inspections in accordance with Section 1c below will not require any further inspections unless there is a report or evidence of illicit discharges.
 - iii. The Department of Engineering and Utilities GIS Division shall provide watershed basin maps showing the location and identification number for each known outfall to the Construction Inspection Division.
 - iv. Inventories shall be field documented using the Outfall Reconnaissance Inventory Report and by photographing the outfall using a digital camera. The Construction Inspection Division shall develop and use a suitable method for identifying the outfall in the photographs.
 - v. If evidence of or an actual illicit discharge is identified during the inspection, comply with the applicable portions of section 1c below.
 - vi. If an outfall not shown on the watershed basin map is discovered, the approximate location of the outfall shall be annotated on the basin map, the outfall inventoried and an outfall number assigned in accordance with the procedures listed in Section 5 below.
 - vii. If an outfall shown on the watershed basin map can't be located during the inspection, the inspector, Storm Water Coordinator and GIS Division will confer to try to determine the status of the outfall. The Department of Public Works shall assist if so requested. If it is determined that the outfall does not exist, the Outfall Reconnaissance Inventory Report shall be annotated as such and processed as described below and the outfall data shall be removed from the GIS mapping system.

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- viii. The completed Outfall Reconnaissance Inventory Report shall be delivered to the GIS Division and the digital pictures transferred to a common file server.
 - ix. The GIS Division shall update the GIS mapping system to include the outfall attributes required for tracking and scheduling using the data collected on the Outfall Reconnaissance Inventory Report.
 - x. The GIS Division shall electronically scan the completed inventory form and store the electronic version and the associated outfall photograph in a common file together.
 - xi. If outfall maintenance is required, comply with the procedures listed in Section 1b below.
 - xii. The electronic forms shall be maintained for the life of the outfall.
- b. Identify and repair outfalls that require maintenance.
- i. When an Outfall Reconnaissance Inventory Report indicates that an outfall requires maintenance, the GIS Division shall forward the inventory form to the Stormwater Coordinator after scanning.
 - ii. The Stormwater Coordinator shall send the outfall number, location of the outfall, description of the maintenance required and a digital photograph of the outfall to the Department of Public Works.
 - iii. The Department of Public Works shall take the necessary action to repair the outfall or defer the work based upon their assessment of the outfall, availability of personnel and availability of funds.
 - iv. After the required maintenance has been performed or the work deferred, the Department of Public Works shall provide the Stormwater Coordinator with the work order (ticket) number, date and action taken. If the work was deferred, an explanation for deferral shall be included.
 - v. The Stormwater Coordinator shall provide the information to the GIS Division for inclusion in the electronic file with the previously scanned outfall inventory report and digital photograph.
 - vi. The repair information will be attached to the inspection form and filed in accordance with section 1a(xii) above.
- c. Detect illicit discharges and direct correction of the cause.
- i. The Construction Inspection Division shall inspect each outfall with a discharge dimension of 30" or larger and each open channel discharge point draining an area of 50 acres or more that discharge directly into waters of the State (see

**APPENDIX 1 – STORMWATER MANAGEMENT PROGRAM
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Section 4) as directed by the Stormwater Coordinator. More frequent inspections may be warranted based upon the presence of an illicit discharge.

- ii. Inspections shall be documented using the applicable procedures outlined in section 1a above.
- iii. If an illicit discharge is detected, the inspector shall attempt to determine the source of the discharge.
- iv. If the source can be identified, the inspector shall notify the Stormwater Coordinator of the source and type of discharge.
- v. The Stormwater Coordinator shall initiate action to have the illicit discharge stopped using procedures in the City of Bartlett Stormwater Ordinance or the Enforcement Response Plan.
- vi. If the cause of the discharge can not be readily identified, the inspector shall notify the Stormwater Coordinator of the type and location of the discharge.
- vii. The Stormwater Coordinator shall investigate to the maximum extent possible. If the source still can not be identified, the area shall be monitored on a weekly basis in an attempt to isolate the source.
- viii. Upon source identification, comply with the procedure identified in 1c(v) above.

2. Tracking and Scheduling: The following procedures shall be used to track and schedule outfall inspections.

a. Tracking.

- i. The GIS Division shall develop and implement a method of electronically identifying and storing the initial and subsequent inventories of each outfall. This data shall be maintained for the life of the outfall so as to preserve a history of the outfall inspections.
- ii. The GIS Division shall develop and implement a method to identify and print a list of those outfalls required to be inspected every five years.
- iii. The GIS Division shall update the mapping system and attributes as inventory reports are received. Updating may be delayed until a number of reports have been received to maximize utilization of resources.
- iv. The GIS Division shall provide the Stormwater Coordinator with the percentage of outfalls inventoried, broken out by type of inspection (initial or five year), on a monthly basis.

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- v. The Stormwater Coordinator shall provide the status of the inventories to the Construction Inspection Division to aid in scheduling the remaining inspections.
 - b. Scheduling.
 - i. Each September, the GIS Division shall provide the initial and five year inventory list and associated basin maps to the Stormwater Coordinator.
 - ii. The Stormwater Coordinator shall prepare a list of which outfalls to be inventoried for the following year and forward the list to the Construction Inspection Division.
 - iii. The Construction Inspection Division shall schedule and conduct the required inventories so they are completed within the time frame required.
- 3. **New outfalls:** When a new outfall is installed as a result of new development or capital improvement project (CIP), the following procedures shall apply.
 - a. Identify and map.
 - i. The GIS Division shall input the outfall location and attributes into the GIS mapping system using the data contained in the development or CIP plans provided for electronic scanning and assign an outfall number.
 - ii. Upon acceptance of the subdivision, the Construction Inspection Division shall conduct an initial inventory of the outfalls in accordance with the applicable portions of section 1a above.
 - b. Scheduling (for Section 1c outfalls only). After the as-built drainage data for the subdivision or CIP has been received, outfall inspection scheduling shall be as described in Section 2b above.
- 4. **Converted or removed outfalls.** When outfalls are removed or converted to a structure other than an outfall, the GIS Division shall remove the outfall from the GIS mapping system and any scheduling system in use. The associated electronic inspections file shall be renamed to indicate the outfall is no longer in use and a memo inserted into the file to indicate the reason, i.e., “converted to man hole”.
- 5. **Outfall Numbering Procedures.** The GIS Division assigns numbers to outfalls shown on the drainage layer of the City of Bartlett GIS mapping system and subsequently submitted plans. Any outfall found during field inventories that are not shown on the drainage layer are known as undocumented outfalls. In order to accurately track undocumented outfalls, a system must be in place to prevent one number being assigned to more than one outfall. The following procedures apply for numbering undocumented headwalls.
 - a. Each Construction Inspection Division inspector is assigned a block of numbers. The blocks are large enough that the inspector should not be in need of another number block.

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- i. Inspector 1: 5000 through 5999
 - ii. Inspector 2: 6000 through 6999
 - iii. Inspector 3: 7000 through 7999
 - iv. Inspector 4: 8000 through 8999
 - b. The inspector discovering the undocumented outfall will assign it the first available number in their number block. The approximate location of the outfall shall be annotated on the basin map used for the inspection. Each inspector must keep track of the last number they used to prevent using the same number more than once.
 - c. When the completed Outfall Reconnaissance Inventory Report is given to the GIS Division, the basin map with the approximate location of the undocumented outfall annotated upon it will also be provided so the GIS Division can add the location and attributes to the GIS mapping and scheduling systems.
6. **Five Year Outfall Inventories.** The following water basins are considered waters of the State. Outfalls with a discharge opening of 30" or greater and open channels draining an area of 50 acres or more which directly discharge into them shall be inventoried at least once every five years, with the goal of 20% inventoried on an annual basis.

a. Loosahatchie River Basin.

- i. Howard Creek
- ii. Raner Creek
- iii. Unnamed Loosahatchie River Tributary (Rockyford Basin)
- iv. Unnamed Loosahatchie River Tributary (Sandeman Basin)
- v. Buckhead Creek
- vi. Oliver Creek

b. Wolf River Basin.

- i. Harrington Creek Main Stem
- ii. Harrington Creek Lateral C and D
- iii. Harrington Creek Lateral E
- iv. Unnamed Fletcher Creek Tributary (Basin 1)
- v. Fletcher Creek Lateral A
- vi. Fletcher Creek Lateral C
- vii. Fletcher Creek Lateral D
- viii. Fletcher Creek Lateral E
- ix. Fletcher Creek Wolfchase Basin

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Attachment 3

Stormwater Inspection Report

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ATTACHMENT 3 – STORMWATER INSPECTION REPORT

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**APPENDIX 1 – STORMWATER MANAGEMENT PROGRAM
ATTACHMENT 3 – STORMWATER INSPECTION REPORT**



CITY OF BARTLETT
Department of Engineering 901-385-6499
Department of Code Enforcement 901-385-6425
6382 Stage Road, Bartlett TN 38134-3739

General NPDES Permit for Stormwater Discharges from Construction Activities (CGP)

Monthly Construction Stormwater Pollution Prevention Compliance Inspection Report

Site or Project Name:		NPDES Tracking Number: TNR	
Lot # or Address:		Date of Inspection:	
Contact Name:	Contact Phone:	Name of Inspector:	
Type Inspection:	Routine ☐ Complaint ☐ Follow-up ☐	Inspector's TNEPSC Certification Number:	

Please check the box if the following items are on-site:

☐ Notice of Coverage (NOC) ☐ Stormwater Pollution Prevention Plan (SWPPP) ☐ Site contact information

Best Management Practices (BMPs).

Are the Erosion Prevention and Sediment Controls (EPSCs) functioning correctly?

1.	Are all applicable EPSCs installed and maintained (silt fences, inlet protection, check dams, etc.)?	☐ N/A	☐ Yes	☐ No
2.	Are EPSCs functioning correctly at all disturbed areas/material storage areas?	☐ N/A	☐ Yes	☐ No
3.	Are EPSCs functioning correctly at outfall/discharge points such that there is no objectionable color contrast in the receiving stream, and no other water quality impacts?	☐ N/A	☐ Yes	☐ No
4.	Are EPSCs functioning correctly at ingress/egress points such that there is no evidence of track out?	☐ N/A	☐ Yes	☐ No
5.	Are temporary sediment basins installed, maintained and functioning with sufficient capacity?	☐ N/A	☐ Yes	☐ No
6.	If applicable, have discharges from dewatering activities been managed by appropriate controls?	☐ N/A	☐ Yes	☐ No
7.	Have inactive areas been stabilized within 14 days?	☐ N/A	☐ Yes	☐ No
8.	Are vegetated areas being maintained (mowed, pruned, irrigated, etc.)?	☐ N/A	☐ Yes	☐ No
9.	Are clearing limits, tree protection zones or other buffer zones in place and being observed?	☐ N/A	☐ Yes	☐ No
10.	Have pollution prevention measures been installed, implemented, and maintained to minimize the discharge of pollutants from equipment and vehicle washing, wheel wash water, and other wash waters?	☐ N/A	☐ Yes	☐ No
11.	If a concrete washout facility is located on site, is it clearly identified on the project and maintained?	☐ N/A	☐ Yes	☐ No
12.	Have all previous deficiencies been addressed?	☐ N/A	☐ Yes	☐ No

Explanation of problems and/or pertinent observations:

Recommendations:

Date of Scheduled Follow-up Inspection (if required):

Site Supervisor Name and Title:	Signature:	Date:
Inspector	Signature:	Date:

WTNSA-1000

Instructions on reverse

2013-05

**APPENDIX 1 – STORMWATER MANAGEMENT PROGRAM
ATTACHMENT 3 – STORMWATER INSPECTION REPORT**

Monthly Construction Stormwater Pollution Prevention Inspection Report

Purpose of this form/ Instructions

An inspection shall be performed at least monthly for all priority constructions sites and documented on this form.

Inspectors performing the monthly inspections must be a minimum of EPSC Level 1 certified in the Tennessee Erosion Prevention & Sediment Control Program.

Disturbed areas and areas used for storage of materials that are exposed to precipitation shall be inspected for evidence of, or the potential for, pollutants entering the site's drainage system. Erosion prevention and sediment control measures shall be observed to ensure that they are operating correctly.

Outfall points (where discharges leave the site and/or enter waters of the state) shall be inspected to determine whether erosion prevention and sediment control measures are effective in preventing significant impacts to receiving waters. Where discharge locations are inaccessible, nearby downstream locations shall be inspected. Locations where vehicles enter or exit the site shall be inspected for evidence of offsite sediment tracking.

Trained certified inspectors shall complete inspection documentation to the best of their ability. Falsifying inspection records or other documentation or failure to complete inspection documentation is a violation of the NPDES General Permit for Discharges from Small Municipal Separate Storm Sewer Systems and any other applicable acts or rules.

NOTES:

Item 1: Silt fence should be entrenched and have less than 50% of the height of the silt fence covered in sediment. Inlet protection (other than silt fence) should be kept cleared of accumulated sediment.

Item 2: If a material storage yard is associated with the construction site, it shall be inspected for applicable BMPs.

Item 3: Sediments are being maintained on site. Outlets are free of obstructions such as sediment, litter, etc. Rip-rap and filter cloth are properly installed.

Item 4: Construction entrances built per specifications. Maintenance is being performed to include rock replacement and street sweeping.

Item 5: Installed per specifications with outlet structures functioning properly. Basins being maintained with sediment removed at clean-out elevations. Berms in good condition with no erosion.

Item 6: Water sediment free prior to discharge/draining. Outlet structure control maintained closed except for draining.

Item 7: Seed and mulch applied or other stabilization efforts in effect.

Item 8: Vegetated areas being maintained in accordance with property maintenance ordinances. Height of grass, absence of trash and other construction debris, etc.

Item 9: Delineation devices (safety fence) in place.

Item 10: Wash water being maintained on site and treated prior to discharge.

Item 11: Concrete wash area contained.

Item 12: If this is a follow-up inspection, all previous deficiencies have been corrected.

Attachment 4

Municipal Training Sign-in Sheet Sample

APPENDIX 1 – STORMWATER MANAGEMENT PROGRAM
ATTACHMENT 4 – MUNICIPAL TRAINING SIGN-IN SHEET SAMPLE

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APPENDIX 1 – STORMWATER MANAGEMENT PROGRAM
ATTACHMENT 4 – MUNICIPAL TRAINING SIGN-IN SHEET SAMPLE

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Attachment 5

Fixed Facility Inventory Sample

APPENDIX 1 – STORMWATER MANAGEMENT PROGRAM
ATTACHMENT 5 – FIXED FACILITY INVENTORY SAMPLE

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**APPENDIX 1 – STORMWATER MANAGEMENT PROGRAM
ATTACHMENT 5 – FIXED FACILITY INVENTORY SAMPLE**



General Information

City Hall Annex
6382 Stage Road
Bartlett TN 38134-3739

Contact Name:
Contact Number:
Coordinates: 89°51'1.56"W 35°12'18.7"N

Facility Type: Other municipal owned and/or operated facility
Subcategory: Public building

Watershed: Wolf River
Sub-watershed: Harrington Creek Lateral C & D
Nearby Water Bodies: City Hall Park ponds
Is facility within 200 feet of an impaired water body? Yes

Facility activities: Administrative

(Continued on back)

**APPENDIX 1 – STORMWATER MANAGEMENT PROGRAM
ATTACHMENT 5 – FIXED FACILITY INVENTORY SAMPLE**

Potential Pollutants & Non-storm Water Discharges

1. Parking lot run-off
2. Pesticides
3. Herbicides
4. Trash

Best Management Practices Employed

1. Parking lot run-off.
 - a. Parking lot routinely swept by public works.
 - b. Leaking pool vehicles are taken to Vehicle Maintenance for repair.
2. Pesticides.
 - a. Used in accordance with manufacturers instructions.
 - b. Disposed of in accordance with manufacturers instructions.
3. Herbicides.
 - a. Used in accordance with manufacturers instructions.
 - b. Disposed of in accordance with manufacturers instructions.
4. Trash.
 - a. Disposed of in approved containers.
 - b. Tops of containers kept closed.

Inspection Record

Signature indicates that there have been no changes to the general information, potential pollutants or best management practices employed and that any deficiencies discovered have been reported to the Storm Water Coordinator.

Conducted by	Signature	Date

Attachment 6

Standard Operating Procedures

APPENDIX 1 – STORMWATER MANAGEMENT PROGRAM
ATTACHMENT 6 – STANDARD OPERATING PROCEDURES

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City of Bartlett

Shelby County, Tennessee

Asphalt Repair Standard Operating Procedure



Prepared by:

City of Bartlett
Department of Public Works
3585 Altruria Road
Bartlett TN 38135

Matt Crenshaw, Director
Kasey Williamson, General Maintenance Division Manager

September 1, 2024

APPENDIX 1 – STORMWATER MANAGEMENT PROGRAM
ATTACHMENT 6 – STANDARD OPERATING PROCEDURES

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**APPENDIX 1 – STORMWATER MANAGEMENT PROGRAM
ATTACHMENT 6 – STANDARD OPERATING PROCEDURES****SCOPE**

The City of Bartlett is responsible for maintaining roadways used by the public. Many times, this maintenance involves repairing pot holes or other surface defects that affect public safety.

Standard Operating Procedures (SOPs) have been prepared for roadway surface asphalt repair activities for the City of Bartlett in an effort to minimize potential impacts on sensitive areas. One of the primary goals of this SOP is to provide time tested, accepted routine procedures to minimize the impact of asphalt repairs on the environment.

OBJECTIVE

The objective of this SOP is to provide standard operating procedures for surface asphalt repairs which aid in the reduction of the release of pollutants including petroleum hydrocarbons, toxic organic compounds, oils and greases, metals, suspended solids and water with high pH from entering drainage systems, sensitive areas and water bodies.

PROCEDURES

1. Where feasible, avoid performing asphalt repairs when rain is falling or expected.
2. Sweep slurring and cuttings during the activity to prevent migration off site; do not allow the material to remain on permanent concrete or asphalt overnight.
3. Collect, treat and properly dispose of runoff that comes in contact with diesel or coatings used in the asphalt application.
4. Continually monitor operations to determine whether cuttings or wastewater could enter the Stormwater system. If observations indicate that a violation of water quality standards could occur, stop operations and immediately implement preventive measures such as berms, barriers, secondary containment and vacuum truck.
5. Sweep or shovel loose aggregate chunks and dust and collect the material for recycling or proper disposal at the end of each workday.
6. Dispose of collected slurry and cuttings in a manner that does not violate groundwater or surface water quality standards.

APPENDIX 1 – STORMWATER MANAGEMENT PROGRAM
ATTACHMENT 6 – STANDARD OPERATING PROCEDURES

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City of Bartlett

Shelby County, Tennessee

Snow and Ice Control Standard Operating Procedure



Prepared by:

City of Bartlett
Department of Public Works
3585 Altruria Road
Bartlett TN 38135

Matt Crenshaw, Director
Kasey Williamson, General Maintenance Division Manager

September 1, 2024

APPENDIX 1 – STORMWATER MANAGEMENT PROGRAM
ATTACHMENT 6 – STANDARD OPERATING PROCEDURES

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**APPENDIX 1 – STORMWATER MANAGEMENT PROGRAM
ATTACHMENT 6 – STANDARD OPERATING PROCEDURES****SCOPE**

The City of Bartlett uses sand and salt as a method of controlling snow and ice on roadways during the winter months. The use of salt can potentially pollute waterways when introduced into the City's drainage system. The City of Bartlett needs to be judicial in the use of salt in an effort to reduce the impact upon the environment but at the same time make the roadways safe for the public to travel upon.

Standard Operating Procedures (SOPs) have been prepared for snow and ice control activities for the City of Bartlett in an effort to minimize potential impacts on sensitive areas. One of the primary goals of this SOP is to provide time tested, accepted routine procedures to minimize the impact of salt on the environment.

OBJECTIVE

The objective of this SOP is to provide standard operating procedures for the use of sand and salt for snow and ice control which aid in the reduction of vehicle accidents that may adversely affect sensitive areas. This minimizes pollutants resulting from vehicle accidents such as petroleum, hydrocarbons, heavy metals and road wash off from entering storm drains/drainage systems.

PROCEDURES

1. Store salt in covered storage bin until ready to be loaded on spreaders.
2. Minimize the use of salt by reducing the salt-to-sand ratio to the minimum rate expected to achieve the desired outcome.
3. Apply only as needed using the minimum quantities.
4. Perform before storm hits when streets are generally in good condition and only patches of ice/snow may exist (temperature must be 35 degrees or continuing to drop).
5. Plow snow in areas that allow vegetation to act as a filter and contain sand.
6. Inspect roadway conditions daily during potential icy conditions and apply salt/sand mixture when needed.
7. Sweep or clean up accumulated grit from roads as soon as possible after the road surface clears.
8. Prioritize clean up efforts to minimize impacts on aquatic habitat areas.

APPENDIX 1 – STORMWATER MANAGEMENT PROGRAM
ATTACHMENT 6 – STANDARD OPERATING PROCEDURES

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City of Bartlett

Shelby County, Tennessee

Storm Drain Inlet Repair Standard Operating Procedure



Prepared by:

City of Bartlett
Department of Public Works
3585 Altruria Road
Bartlett TN 38135

Matt Crenshaw, Director
Kasey Williamson, General Maintenance Division Manager

September 1, 2024

APPENDIX 1 – STORMWATER MANAGEMENT PROGRAM
ATTACHMENT 6 – STANDARD OPERATING PROCEDURES

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**APPENDIX 1 – STORMWATER MANAGEMENT PROGRAM
ATTACHMENT 6 – STANDARD OPERATING PROCEDURES****SCOPE**

The City of Bartlett is responsible for maintaining the City's storm drainage system. When storm drain inlets are damaged, the City must make repairs in a manner that return the inlets to serviceable condition while at the same time protects the environment from potential pollutants used during the repair.

Standard Operating Procedures (SOPs) have been prepared for storm drain inlet repair activities for the City of Bartlett in an effort to minimize potential impacts on sensitive areas. One of the primary goals of this SOP is to provide time tested, accepted routine procedures to minimize the impact of storm drain inlet repairs on the environment.

OBJECTIVE

The objective of this SOP is to provide standard operating procedures for storm drain inlet repairs which aid in the reduction of the release of pollutants cement, mortar or other suspended solids and water with high pH from entering drainage systems, sensitive areas and water bodies.

PROCEDURES

1. Where feasible, avoid performing storm drain inlet repairs when rain is falling or expected.
2. If practical, use a drop cloth in the bottom of the inlet to catch any stray materials used for the inlet repair.
3. If a mortar mix is used, mix the mortar in a suitable container. If mix materials are to be combined on the ground, use a plastic sheet, plywood or other suitable material as a barrier between the ground and the mix.
4. Continually monitor operations to determine whether material or wastewater could enter the storm water system. If observations indicate that a violation of water quality standards could occur, stop operations and immediately implement preventive measures such as berms, barriers, secondary containment and vacuum truck.
5. Sweep or shovel loose material and dust and collect the material for proper disposal at the end of each workday.
6. Dispose of collected material in a manner that does not violate groundwater or surface water quality standards.

APPENDIX 1 – STORMWATER MANAGEMENT PROGRAM
ATTACHMENT 6 – STANDARD OPERATING PROCEDURES

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City of Bartlett

Shelby County, Tennessee

Street Sweeping Standard Operating Procedure



Prepared by:

City of Bartlett
Department of Public Works
3585 Altruria Road
Bartlett TN 38135

Matt Crenshaw, Director
Jonathan Walker, Grounds Maintenance Division Manager

September 1, 2024

APPENDIX 1 – STORMWATER MANAGEMENT PROGRAM
ATTACHMENT 6 – STANDARD OPERATING PROCEDURES

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**APPENDIX 1 – STORMWATER MANAGEMENT PROGRAM
ATTACHMENT 6 – STANDARD OPERATING PROCEDURES**

SCOPE

Street sweeping is an operational best management practice developed to control pollutant discharges by promoting efficient pick-up of sediment, pollutants and debris on city streets, parking lots and other paved surfaces outdoors that carry a large portion of the pollutant load. The operation and maintenance of street sweepers can actually contribute to the problem of storm water pollution. Procedures for sweeping debris and pollutants must be managed appropriately.

Standard Operating Procedures (SOPs) have been prepared for street sweeping activities for the City of Bartlett in an effort to minimize potential impacts of sweeping activities for pollution. One of the primary goals of this SOP is to provide time tested, accepted routine procedures to minimize the release of pollutants from a site during the performance of municipal operations.

OBJECTIVE

The objective of this SOP is to provide standard operating procedures for operating the sweeper effectively and efficiently to minimize the amount of pollutants entering storm water drains or waterways as a result of sweeper operations.

PROCEDURES

1. Pre-operation.
 - a. Perform daily maintenance checks.
 - i. All lights to include traffic safety signals are functioning properly.
 - ii. No evidence of fluid leaks.
 - iii. Check brooms and replace as necessary.
 - iv. Report any broken items or items that need repair to management.
 - b. Fuel vehicle taking care not to overfill.
 - c. Fill water tank. Never operate the sweeper without water.
2. Operations.
 - a. Drive sweeper at low speeds to minimize airborne particulates and remove the maximum amount of debris.
 - b. Always use the water system when sweeping to reduce dust and keep pollutants from becoming airborne.
 - c. Avoid sweeping without the use of the water system (dust suppression system). Water also cools the brooms, takes drag off the broom motors and prevents premature wear on the brooms.
 - d. Adjust the brooms pressure as needed for the job site to maximize the amount of pollutants to be removed.
 - e. Avoid sweeping unknown objects or substances that may be potentially hazardous.
 - f. If oil, gas or unknown fluids are noticed coming from the sweeper or on the roadways, notify management immediately so proper procedures can be implemented to contain and clean the spill.
3. Waste Disposal.
 - a. Only dump the sweeper's load at the Solid Waste Complex.
 - b. Remove any caked debris from the sweeper's hopper while at the Solid Waste Complex to reduce the amount of pollutants to be washed out.
 - c. Clean the sweeper and tools on the wash bay at either the Solid Waste Complex or at the Grounds Maintenance Shop. Runoff from these areas go to the sanitary sewer system.
4. Miscellaneous - Report any illegal dumping or areas that need special attention to your manager.

APPENDIX 1 – STORMWATER MANAGEMENT PROGRAM
ATTACHMENT 6 – STANDARD OPERATING PROCEDURES

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City of Bartlett

Shelby County, Tennessee

Vacuum Truck Waste Handling Standard Operating Procedure



Prepared by:

City of Bartlett
Department of Public Works
3585 Altruria Road
Bartlett TN 38135

Matt Crenshaw, Director
Kasey Williamson, General Maintenance Division Manager

September 1, 2024

APPENDIX 1 – STORMWATER MANAGEMENT PROGRAM
ATTACHMENT 6 – STANDARD OPERATING PROCEDURES

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**APPENDIX 1 – STORMWATER MANAGEMENT PROGRAM
ATTACHMENT 6 – STANDARD OPERATING PROCEDURES****SCOPE**

The City of Bartlett uses a vacuum truck primarily to remove sewage from sewer systems that are blocked. It can also be utilized to assist in clean-up operations involving sewer overflows as well as excavations involving the use of potting. Waste collected by vacuum trucks must be properly disposed of in order to reduce its potential impact as a source of water pollution.

Standard Operating Procedures (SOPs) have been prepared for vacuum truck waste handling activities for the City of Bartlett in an effort to minimize potential impacts of waste for pollution. One of the primary goals of this SOP is to provide time tested, accepted routine procedures to minimize the release of pollutants from a site during the performance of municipal operations.

OBJECTIVE

The objective of this SOP is to provide standard operating procedures for the handling of vacuum truck waste which effectively and efficiently minimize the amount of pollutants entering storm water drains or waterways as a result of waste handling operations.

PROCEDURES

1. Material Discharge Options.
 - a. Gravel and other construction debris will be taken to the Solid Waste Transfer Station and off loaded for delivery to the landfill.
 - b. Sanitary waste and truck rinse water will be disposed of at the Waste Water Treatment Plant.
2. Operations. After handling sanitary wastes, the truck's holding chamber will be washed. The wash water will be managed the same as the sanitary wastes.
3. Miscellaneous - Report any illegal dumping or areas that need special attention to your manager.

APPENDIX 1 – STORMWATER MANAGEMENT PROGRAM
ATTACHMENT 6 – STANDARD OPERATING PROCEDURES

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City of Bartlett

Shelby County, Tennessee

Construction Plan Review and Approval Standard Operating Procedure



Prepared by:

City of Bartlett
Department of Engineering and Utilities
6382 Stage Road
Bartlett TN 38134

John Horne, Director
Max Gomez-Pedro, Land Development Engineer

September 1, 2024

APPENDIX 1 – STORMWATER MANAGEMENT PROGRAM
ATTACHMENT 6 – STANDARD OPERATING PROCEDURES

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**APPENDIX 1 – STORMWATER MANAGEMENT PROGRAM
ATTACHMENT 6 – STANDARD OPERATING PROCEDURES**

SCOPE

The NPDES General Permit for Discharges from Small Municipal Separate Storm Sewer Systems requires the City of Bartlett to have specific procedures for construction site plan (including erosion prevention and sediment controls) review and approval. The procedures must include an evaluation of plan completeness and overall BMP effectiveness.

Standard Operating Procedures (SOPs) have been prepared for construction plan review and approval. One of the primary goals of this SOP is to provide time tested, accepted routine procedures to effectively review and approve construction plans that minimize the release of pollutants from a construction site. Plan review is normally conducted by the Land Development Engineer but may be accomplished by any EPSC Level 2 certified individual in the Department of Engineering and Utilities.

The City's subdivision regulation and stormwater ordinance requires the submittal of plans for review and approval. They also require that an erosion control plan be included in the submittal. The Planning Department provides a subdivision plan checklist to assist the developer with providing the required material for review and approval. This SOP is intended to address plans once they are submitted and not the communications that may occur between City staff and developer prior to plan submittal.

OBJECTIVE

The objective of this SOP is to provide standard operating procedures for the review and approval of construction plans to effectively and efficiently minimize the amount of pollutants entering storm water drains or waterways because of construction activities.

PROCEDURES

1. Initial submittal
 - a. Is the submittal complete in that it contains the information required by the subdivision plan checklist? Incomplete submittals will not be processed.
 - b. Is the receiving stream exceptional waters or waters with unavailable parameters for siltation? Reference TDEC Mapviewer for stream status and coordinate with TDEC.
 - c. If required, has an NOC been issued by TDEC? Reference CGP for NOC requirements and TDEC Dataviewer for issue status.
 - d. If required, is a SWPPP included?
 - e. Does the SWPPP address the minimum requirements for EPSC as specified in the CGP?
 - f. Are the required number of sheets to address erosion control based upon the size of the construction site included? Reference CGP.
 - g. Are EPSC measures designed to the appropriate design storm (2 year or 5 year)? Reference CGP for the design storm.
 - h. Is a sediment basin required (draining ten acres (five acres if draining to waters with unavailable parameters or exceptional waters) or more to an outfall)? If so, are the design and design calculations included and appear to be accurate and consistent with the design storm?
 - i. If required, are quality riparian buffers identified and the correct size? Reference CGP and the City's stormwater ordinance. The more stringent requirement applies.
 - j. Are the BMPs specified in the project SWPPP included in the erosion control plan?
 - k. Are the BMPs specified in the erosion control plan included in the SWPPP?

APPENDIX 1 – STORMWATER MANAGEMENT PROGRAM
ATTACHMENT 6 – STANDARD OPERATING PROCEDURES

- l. Are the BMPs specified consistent with those in the TDEC EPSC Handbook and the City's storm water ordinance and specifications?
- m. If non-standard BMPs are specified, is there sufficient data included to determine their effectiveness as compared to traditional BMPs?
- n. Are the BMPs specified appropriate and effective for the locations used?

Plans are marked up and comments are typed. The project is presented to the Planning Commission for approval with conditions. Markups are returned to the project owner for corrections.

2. Subsequent plan submittal

- a. Are the markups included with the corrected plans?
- b. Have the required changes been made?
- c. Have any changes been made to previously reviewed items?

If no changes are required, process as final submittal. Otherwise, return new markups to the plan designer/engineer for corrections.

3. Board of Mayor and Alderman

The project contracts are created and presented to the Board of Mayor and Alderman for approval. This may occur prior to the plans being approved. The Board of Mayor and Alderman approve the project. The plans are not considered approved until the City Engineer/Assistant City Engineer has signed the plans.

4. Preconstruction Meeting

After the project is approved, the plans have been corrected to the satisfaction of the City Engineer/Assistant City Engineer, and an NOC has been issued (if required), a preconstruction meeting is scheduled. The City Engineer/Assistant City Engineer may elect to sign (approve) the plans at this time or delay signature/approval until after the preconstruction meeting. If the project includes a sediment basin, TDEC is invited to attend. After the preconstruction meeting and the plans have been signed, work may begin on the project.

Attachment 7

VISUAL STREAM SURVEY (VSS) REPORT

**APPENDIX 1 – STORMWATER MANAGEMENT PROGRAM
ATTACHMENT 7 – VISUAL STREAM SURVEY REPORT**

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**APPENDIX 1 – STORMWATER MANAGEMENT PROGRAM
ATTACHMENT 7 – VISUAL STREAM SURVEY REPORT**

Visual Stream Survey Protocol

Outfall ID: _____ Watershed: _____
 Stream Segment: _____ Channel Width: _____
 Date of Evaluation: _____ Evaluated by: _____

Weather Conditions _____

Dominate Substrate: ☐ Boulder ☐ Gravel ☐ Sand
☐ Silt ☐ Clay ☐ Mud

Obtain at least 4 photos, outfall, bank opposite outfall, downstream and upstream of outfall.

Scoring Conditions on Back of Form (rate from 1 to 10)

Chanel Condition: _____

Riparian Zone: _____

Bank Stability: _____

Pools: _____

Overall Score:
 (Total divided by the
 numbered scored,
 example 32/4=8)

<6.0 Poor
 6.1 – 7.4 Fair
 7.5 – 8.9 Good
 >9.0 Excellent

Remarks:

Attachment: 2024 Stormwater Management Plan with Appendices (3608 : Res. 27-24 Stormwater Management Plan)

APPENDIX 1 – STORMWATER MANAGEMENT PROGRAM
ATTACHMENT 7 – VISUAL STREAM SURVEY REPORT

Channel Condition			
Natural channel; no structures, dikes. No evidence of down cutting or excessive lateral cutting	Evidence of past channel alteration, but with significant recovery of channel and banks. Any dikes or levies are set back to provide access to an adequate flood plain.	Altered channel; <50% of the reach with riprap and/or channelization; excess aggradation; braided channel. Dikes or levees restrict flood plain width	Channel is actively down cutting or widening. >50% of the reach with riprap or channelization. Dikes or levees prevent access to flood plain.
10	7	3	1

Riparian Zone				
Natural vegetation extends at least two active channel widths on each side	Natural vegetation extends one active channel width on each side. or If less than one width, covers entire flood plain.	Natural vegetation extends half the active channel width on each side	Natural vegetation extends a third of the active channel width on each side. or Filtering function moderately compromised	Natural vegetation less than a third of the active channel width on each side. or Lack of regeneration or Filtering function severely compromised
10	8	5	3	1

Bank Stability			
Banks are stable; banks are low (at elevation of active flood plain); 33% or more of eroding surface area of banks in outside bends is protected by roots that extend to the base-flow elevation	Moderately stable; banks are low (at elevation of active flood plain); less than 33% of eroding surface area of banks in outside bends is protected by roots that extends to base-flow elevation.	Moderately unstable; banks may be low, but typically are high; outside bends are actively eroding (overhanging vegetation at top of bank, some mature trees falling into stream annually, some slope failure apparent).	Unstable; banks may be low, but typically are high; some straight reaches and inside edges of bends are actively eroding (overhanging vegetation at top of bare banks, numerous mature trees falling into stream annually, numerous slope failures apparent).
10	7	3	1

Pools			
Deep and shallow pools abundant; greater than 30% of the pool bottom is obscured due to depth or the pools are at least 5 feet deep.	Pools present, but not abundant; from 10 to 30% of the pool bottom is obscured due to depth, or the pools are at least 3 feet deep.	Pools present, but shallow; from 5 to 10% of the pool bottom is obscured due to depth; or the pools are less than 3 feet deep.	Pools absent, or the entire bottom is discernable
10	7	3	1

Appendix 2

RECORD OF CHANGES

APPENDIX 1 – STORMWATER MANAGEMENT PROGRAM
ATTACHMENT 2 – RECORD OF CHANGES

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Stormwater Management Program

In 2022, TDEC issued a new MS4 stormwater permit. It requires a written stormwater management program to be developed with participation from the public and implemented by September 1, 2024. The program has to address six minimum control measures.

1. Public Education, to include engineering community and specific City employees
2. Public Involvement and participation, including commercial and development community
3. Illicit discharge detection and elimination
4. Construction site stormwater pollution prevention
5. Post construction stormwater pollution prevention
6. Good housekeeping in municipal operations

The draft program has been written with public input (one person answered the public notice for participation) as required by the Permit. The draft was also placed on public notice for comments as required by the Permit and received no comments.

This stormwater management plan, in addition to describing the water sheds in Bartlett and policies Bartlett intends to use to protect those waters, describes *what* the City intends to do to address the requirements of the Permit. Contained in the plan as an attachment is the management program that describes *how* the City intends to accomplish the Plan objectives.