



September 14, 2023

Board of Commissioners
6:30 PM

City Hall - Massie Chambers

Agenda:

1. Call to order by the Mayor

Prayer

Pledge of Allegiance
2. Roll call by the Recorder.
3. Approval of minutes.
 - a. Reading of the August 10th regular meeting of the Board of Commissioners by the Recorder for approval or correction.
4. Comments from citizens.
 - a. As approved by Resolution 23-1146, citizens may address the board in-person and limit comments to three minutes in length.
5. Comments of the City Manager and staff.
 - a. Presentation of the Indoor Aquatics Feasibility study.
6. Reports and comments from committees, members of the Board of Commissioners and other officers.
7. Consent agenda items.
8. Unfinished Business.

- a. Consider Ordinance 23-1071, an ordinance to amend the City of Goodlettsville Municipal Code Title 18, Chapter 3 by deleting Chapter 3 in its entirety and replacing it with a new Chapter 3. **SECOND READING**
 - b. Consider Ordinance 23-1072, an ordinance to amend Title 11, Chapter 2 of the Goodlettsville Municipal Code by deleting Chapter 2 in its entirety as it relates to fortune telling. **SECOND READING**
9. New Business.
- a. Consider Resolution 23-1159, a resolution amending Resolution 23-1148, as it relates to the selling of surplus traffic signal boxes.
 - b. Consider Resolution 23-1160, a resolution approving an inter-local agreement between the City of Goodlettsville and the City of Millersville as it relates to Fire Service.
 - c. Consider Resolution 23-1161, a resolution accepting the low bid and approving a contract between the City of Goodlettsville and Pavement Restoration, Incorporated for Pavement Restoration Services and other incidental services to city streets.
10. Adjournment.

For more information regarding this agenda, please contact the city recorder by email at:

abaker@goodlettsville.gov

A government committed to operating with efficiency and integrity in all we do as we strive to enhance the quality of life for the community we serve.

105 S. Main Street – Goodlettsville, TN 37072 – 615-851-2200 – Fax 615-851-2212

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August 10, 2023 Board of Commissioners 6:30 PM City Hall - Massie Chambers

Minutes:

Present: Jennifer Duncan, Stuart Huffman, Rusty Tinnin, and Zach Young.

Absent: Jimmy D. Anderson.

Also Present: Russell Freeman, Tim Ellis, Allison Baker, Sarah Jennings, Addam McCormick, Gary Goodwin, Larry DiOrio, Ken Reeves, and Julie High.

Mayor Rusty Tinnin called the meeting to order. Pastor Brad Arthur offered prayer and Mayor Tinnin led the chambers in the pledge of allegiance.

City Recorder Allison Baker called the roll: Mayor Tinnin present, Vice Mayor Duncan present, Commissioner Anderson absent, Commissioner Huffman present, Commissioner Young present.

Consider the minutes of the July 13, 2023 regular meeting of the Board of Commissioners by the Recorder for approval or correction. Vice Mayor Duncan made a motion to approve the minutes as written. Commissioner Huffman seconded the motion and motion passed 4-0.

Comments from citizens.

Dave Kimbrough of 831 Loretta Drive addressed the Board regarding the traffic in Woodwyn Hills neighborhood. He requested the speed limit be lowered from 30 mph. He also stated there should be traffic lines on the road. He would like all options to reduce the speed to be considered.

Bonnie Mason of 815 Loretta Drive echoed Dave Kimbrough's sentiments regarding the excessive speeding in their neighborhood and requested the speed limit be lowered from 30 mph.

Jaime Riley of 845 Loretta Drive addressed the Board regarding the dangerous speed at which people travel the streets in their neighborhood. She asked for three-way stops to be considered.

Tom Tucker of 224 Sydney Drive addressed the Board regarding his subdivision, Copper Creek, and the poorly managed Ghertner and Company. These issues are not being addressed by their management company: the rock pillars at the entrance of the subdivision are leaning, shrubs are dead, the shared property is full of stones and weeds. The residents of Copper

Creek are counting on the City to advocate for them instead of allowing Ghertner to do what they are doing. They aren't answering phone calls and letters and this is the last resort.

City Manager Tim Ellis stated the Board of Commissioners had at their desk Resolution 23-1158. It is a contract amendment with TDOT extending the contract for sidewalk construction on Caldwell. He stated this will require unanimous consent to add this to the agenda. He said we are looking at hosting a ribbon cutting for the shelter at Peay Park as well as the updated tennis and pickleball courts before the next Commission meeting.

Planning Director Addam McCormick addressed the Board regarding the Special Census the city is kicking off with mailers going out this week. He stated a lot of people felt the 2020 census did not capture as many people as hoped. He said we have until March to get the count in.

Vice Mayor Duncan made a motion to add Resolution 23-1158 to the end of the agenda. Commissioner Huffman seconded the motion. Vote was then taken which resulted in a 4-0 to add Resolution 23-1158 to the end of the agenda.

Consent agenda items.

Consider Unfinished Business.

Consider Ordinance 23-1071, an ordinance to amend the City of Goodlettsville Municipal Code Title 18, Chapter 3 by deleting Chapter 3 in its entirety and replacing it with a new Chapter 3, first reading. Vice Mayor Duncan made a motion to consider Ordinance 23-1071.

Commissioner Huffman seconded the motion. Vote was then taken which resulted in a 4-0 vote to approve Ordinance 23-1071.

Consider Ordinance 23-1072, an ordinance to amend Title 11, Chapter 2 of the Goodlettsville Municipal Code by deleting Chapter 2 in its entirety as it relates to fortune telling, second reading. Vice Mayor Duncan made a motion to consider Ordinance 23-1072. Commissioner Huffman seconded the motion. Vice Mayor Duncan made a motion to defer for one meeting to get more clarification. Vice Mayor Duncan stated people are under the impression we are trying to promote witchcraft. She stated she wanted to understand fully what we were deleting. There was discussion. City Attorney Freeman stated it could violate first amendment rights if challenged. Commissioner Huffman seconded the motion to defer for one meeting. Vote was then taken which resulted in a 4-0 vote to defer Ordinance 23-1072 for one meeting.

Consider New Business.

Consider Resolution 23-1147, a resolution declaring certain property surplus to the needs of the City of Goodlettsville and calling for its disposal by online auction or any other reasonable manner. Commissioner Huffman made a motion to consider Resolution 23-1147. Vice Mayor Duncan seconded the motion. Vote was then taken which resulted in a 4-0 vote to approve Resolution 23-1147.

Consider Resolution 23-1148, a resolution declaring certain property surplus to the needs of the City of Goodlettsville and selling such property to the City of Gallatin, Tennessee.

Commissioner Huffman made a motion to consider Resolution 23-1148. Vice Mayor Duncan

seconded the motion. Vote was then taken which resulted in a 4-0 vote to approve Resolution 23-1148.

Consider Resolution 23-1149, a resolution acknowledging an application for a tourism marketing grant from the State of Tennessee Department of Tourism. Vice Mayor Duncan made a motion to consider Resolution 23-1149. Commissioner Huffman seconded the motion. Vote was then taken which resulted in a 4-0 vote to approve Resolution 23-1149.

Consider Resolution 23-1150, a resolution approving an application for a Tennessee Department of Tourism - Tourist Development Enhancement Grant. Vice Mayor Duncan made a motion to consider Resolution 23-1150. Commissioner Huffman seconded the motion. Vote was then taken which resulted in a 4-0 vote to approve Resolution 23-1150.

Consider Resolution 23-1151, a resolution of the Board of Commissioners of the City of Goodlettsville, Tennessee establishing July 3rd of each calendar year as the date of Goodlettsville's Independence Day Celebration special event. Vice Mayor Duncan made a motion to consider Resolution 23-1151. Commissioner Huffman seconded the motion. Vice Mayor Duncan stated she wasn't sure if she wanted to defer or amend as people have reached out to her that weren't in favor of moving it to the 3rd. She said she wanted to look at it one more year on the 3rd instead of changing it permanently. Commissioner Young stated he doesn't think this merits action from the City Commission as this is a department's event and doesn't care what day it is on. Vice Mayor Duncan made a motion to amend Resolution 23-1151 to host the Independence Day Celebration on July 3, 2024 and then re-evaluate. Commissioner Young seconded the motion. Vote was then taken which resulted in a 4-0 vote to approve the amended Resolution 23-1151.

Consider Resolution 23-1152, a resolution to establish guidelines for the video transmission and recording of City of Goodlettsville Boards and Commissions meetings. Commissioner Huffman made a motion to consider Resolution 23-1152. Vice Mayor Duncan seconded the motion. Vote was then taken which resulted in a 4-0 vote to approve Resolution 23-1152.

Consider Resolution 23-1153, a resolution to set the amount for the fee-for-service for residential solid waste. City Manager Ellis stated an increase was made last year but not enough to cover the annual increase. Vice Mayor Duncan made a motion to consider Resolution 23-1153. Commissioner Huffman seconded the motion. Commissioner Young asked if the \$4 difference in having two cans instead of one was sufficient. City Manager Ellis stated it is very few residents that have 2 cans but to the best of his knowledge the \$4 covers it. Commissioner Young also brought up that beginning with tax year 2024, the income limit for tax freeze has been raised significantly so there will be a significant number that would be added to tax freeze. He pointed out once again that if you are on social security or tax freeze it is likely you are on back door pick up and we are giving them a break for a service when we do not offer a break on sewer. Vote was then taken which resulted in a 4-0 vote to approve Resolution 23-1153.

Consider Resolution 23-1154, a resolution amending certain fees associated with bulk item curbside pick-up. Vice Mayor Duncan made a motion to consider Resolution 23-1154. Commissioner Huffman seconded the motion. Vice Mayor Duncan asked when it would go into effect. The resolution states it goes into effect September 1st so it would be on October's bill. Vote was then taken which resulted in a 4-0 vote to approve Resolution 23-1154.

Consider Resolution 23-1155, a resolution approving certain amendments to the City of Goodlettsville Industrial Development Board's adopted By-Laws. Vice Mayor Duncan made a motion to consider Resolution 23-1155. Commissioner Huffman seconded the motion. Vote was then taken which resulted in a 4-0 vote to approve Resolution 23-1155.

Consider Resolution 23-1156, a resolution declaring certain property surplus to the needs of the City of Goodlettsville and donating such property to the Shackle Island Volunteer Fire Department. Vice Mayor Duncan made a motion to consider Resolution 23-1156. Commissioner Huffman seconded the motion. Vote was then taken which resulted in a 4-0 vote to approve Resolution 23-1156.

Consider Resolution 23-1157, a resolution acknowledging an application for a Tennessee Law Enforcement Hiring, Training and Recruitment grant from the State of Tennessee Department of Commerce and Insurance. Commissioner Huffman made a motion to consider Resolution 23-1157. Vice Mayor Duncan seconded the motion. There was discussion. Vote was then taken which resulted in a 4-0 vote to approve Resolution 23-1157.

Consider Resolution 23-1158, a resolution to amend a contract between the City of Goodlettsville, Tennessee and the State of Tennessee Department of Transportation as it relates to project number 125191.01-Caldwell Sidewalk Connector Project. Vice Mayor Duncan made a motion to consider Resolution 23-1158. Commissioner Huffman seconded the motion. Vote was then taken which resulted in a 4-0 vote to approve Resolution 23-1158.

With no further business, Commissioner Young made a motion to adjourn. Vice Mayor Duncan seconded the motion. The meeting adjourned at approximately 7:15pm with a 4-0 vote.



AGENDA SUMMARY SHEET

**Board of Commissioners
City of Goodlettsville**

<u>SUBJECT TITLE:</u> Ordinance 23-1071 An ordinance to amend the City of Goodlettsville Municipal Code Title 18, Chapter 3 by deleting Chapter 3 in its entirety and replacing it with a new Chapter 3. SECOND READING <u>PRESENTED BY:</u> Tim Ellis, City Manager	Agenda Item: Ordinance 23-1071 Dept. of Origin: Public Works For Agenda of: September 14, 2023 Originator: Tim Ellis Cost of Item: N/A
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AGENDA ITEM ATTACHMENTS:

Ordinance 23-1071

SUMMARY STATEMENT:

An ordinance to amend the City of Goodlettsville Municipal Code Title 18, Chapter 3 by deleting Chapter 3 in its entirety and replacing it with a new Chapter 3.

FINANCIAL SUMMARY:

N/A

RECOMMENDED ACTION:

Staff recommends approval of Ordinance 23-1071.

Ordinance 23-1071

AN ORDINANCE TO AMEND THE CITY OF GOODLETTSVILLE MUNICIPAL CODE TITLE 18, CHAPTER 3 BY DELETING CHAPTER 3 IN ITS ENTIRETY AND REPLACING IT WITH A NEW CHAPTER 3.

WHEREAS, there is a need to make certain updates to references throughout Chapter 3 of Title 18 of the City of Goodlettsville Municipal Code; and

WHEREAS, the Board of Commissioners desires to make such updates within the City of Goodlettsville Municipal Code.

NOW, THEREFORE, BE IT ORDAINED BY THE CITY OF GOODLETTSVILLE BOARD OF COMMISSIONERS:

Section 1: Title 18, Chapter 3 of the City of Goodlettsville Municipal Code is deleted in its entirety.

Section 2: There is hereby created a new Title 18, Chapter 3, entitled Sewer & Storm Use Regulations as follows:

CHAPTER 3 STORMWATER MANAGEMENT

SECTION

18-301. General provisions.

18-302. Definitions.

18-303. Waivers.

18-304. Land disturbance permit.

18-305. Stormwater system design: construction and permanent stormwater management; performance standards.

18-306. Water quality riparian Bbuffer zone requirements.

18-307. Permanent stormwater management: operation, maintenance, and inspection.

18-308. Existing locations and ongoing developments.

18-309. Illicit discharges.

18-310. Enforcement.

18-311. Penalties.

18-312. Appeals.

18-313. Maintenance.

18-301. General provisions.

- (1) Purpose. It is the purpose of this chapter to:
 - (a) Protect, maintain, and enhance the environment of the city and the public health, safety and the general welfare of the citizens of the city, by controlling discharges of pollutants to the city's stormwater system.
 - (b) Enable the city to comply with the National Pollution Discharge Elimination System permit (NPDES) general permit for discharges from small Municipal Separate Storm Sewer Systems (MS4) and applicable regulations, 40 CFR 122.26 for stormwater discharges;
 - (c) Allow the city to exercise the powers granted in Tennessee Code Annotated, § 68-221-1105, which provides that, among other powers cities have with respect to stormwater facilities, is the power by ordinance or resolution to:
 - (i) Exercise general regulation over the planning, location, construction, and operation and maintenance of stormwater facilities in the city, whether or not owned and operated by the city;
 - (ii) Adopt any rules and regulations deemed necessary to accomplish the purposes of this statute, including the adoption of a system of fees for services and permits;
 - (iii) Establish standards to regulate the quantity of stormwater discharged and to regulate stormwater contaminants as may be necessary to protect water quality;
 - (iv) Review and approve plans and plats for stormwater management in proposed subdivisions or commercial developments;
 - (v) Issue permits for stormwater discharges, or for the construction, alteration, extension, or repair of stormwater facilities;
 - (vi) Suspend or revoke permits when it is determined that the permittee has violated any applicable ordinance, resolution, or condition of the permit;
 - (vii) Regulate and prohibit discharges into stormwater facilities of sanitary, industrial, or commercial sewage or waters that have otherwise been contaminated; and
 - (viii) Expend funds to remediate or mitigate the detrimental effects of contaminated land or other sources of stormwater contamination, whether public or private.
- (2) Administrator. The city manager, or designee, shall administer the provisions of this chapter.

(3) Jurisdiction. This ordinance shall govern all properties within the corporate limits for the City of Goodlettsville, Tennessee.

(4) Right of entry. Designated city staff shall have right-of-entry, at reasonable times, on or upon the property of any person subject to this chapter and access to any permit/document issued hereunder. City staff shall be provided ready access to all parts of the premises for purposes of inspection, monitoring, sampling, inventory, records examination and copying, and performance of any other duties necessary to determine compliance with this chapter.

Designated city staff shall have the right to set up on the property of any person subject to this chapter such devices, as are necessary, to conduct sampling and/or flow measurement of the property's stormwater operations or discharges.

The city has the right to determine and impose inspection schedules necessary to enforce provisions of this chapter.

(5) Stormwater management ordinance. The intended purpose of this ordinance is to safeguard property and public welfare by regulating stormwater quality and drainage while requiring temporary and permanent provisions for its control.

18-302. Definitions. For the purpose of this chapter, the following definitions shall apply: Words used in the singular shall include the plural, and the plural shall include the singular; words used in the present tense shall include the future tense. The word "shall" is mandatory and not discretionary.

The word "may" is permissive. Words not defined in this section shall be construed to have the meaning given by common and ordinary use as defined in the latest edition of Webster's Dictionary.

(1) "Administrative or civil penalties." Under the authority provided in Tennessee Code Annotated, § 68-221-1106, the city declares that any person violating the provisions of this chapter may be assessed a civil penalty by the city of not less than fifty dollars (\$50.00) and not more than five thousand dollars (\$5,000.00) per day for each day of violation. Each day of violation shall constitute a separate violation.

(2) "Agricultural land management activities" means the practice of cultivating the soil, producing crops, and raising livestock for the preparation and marketing of the resulting products.

(3) "As built plans" means drawings depicting conditions, elevation, location, and material of stormwater facilities as they were actually constructed.

(4) "Best Management Practices" ("BMPs") means schedules of activities, prohibitions of practices, maintenance procedures, and other management practices to prevent or reduce the discharge of pollutants to waters of the state. BMPs also include treatment

requirements, operating procedures, and practices to control plant site runoff, spillage or leaks, sludge or waste disposal, or drainage from raw material storage. ~~BMPs could be incorporated by reference into this ordinance as if fully set out therein.~~ BMPs include source control practices (non-structural BMPs) and engineered structures designed to treat runoff. Structural BMPs are facilities that help prevent pollutants in stormwater runoff from leaving the site. Non-structural BMPs are techniques, activities and processes that reduce pollutants at the source.

(5) "Borrow pit" is an excavation from which erodible material (typically soil) is removed to be fill for another site. There is no processing or separation of erodible material conducted at the site. Given the nature of activity and pollutants present at such excavation, a borrow pit is considered a construction activity for the purpose of this permit.

(6) "Buffer zone" is 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. The purpose of a water quality riparian buffer is to maintain existing water quality by minimizing risk of any potential sediments, nutrients or other pollutants reaching adjacent surface waters and to further prevent negative water quality impacts by providing canopy over adjacent waters. ~~means a setback from the top of water body's bank of undisturbed vegetation, including trees, shrubs and herbaceous vegetation; enhanced or restored vegetation; or the re-establishment of native vegetation bordering streams, ponds, wetlands, springs, reservoirs or lakes, which exists or is established to protect those water bodies.~~

(7) "Channel" means a natural or artificial watercourse of perceptible extent, with a definite bed and banks ~~to confine and that~~ conducts continuously or periodically flowing water ~~continuously or periodically~~.

(8) "Common plan of development or sale" is broadly defined as any announcement or documentation (including a sign, public notice or hearing, sales pitch, advertisement, drawing, permit application, zoning request, computer design, etc.) or physical demarcation (including boundary signs, lot stakes, surveyor markings, etc.) indicating construction activities may occur on a specific plot. A common plan of development or sale identifies a situation in which multiple areas of disturbance are occurring on contiguous areas. This applies because the activities may take place at different times, on different schedules, by different operators.

(9) "Construction" is the disturbance of soil and land by -erection, building, acquisition, alteration, reconstruction, improvement or extension of stormwater facilities; preliminary planning to determine the economic and engineering feasibility of stormwater facilities; the engineering, legal, fiscal and economic investigations and studies, surveys, designs, plans, working drawings, specifications, procedures, and other action necessary in the construction of stormwater facilities; and the inspection and supervision of the construction of stormwater facilities.

(10) "Contaminant" means any physical, chemical, biological, or radiological substance or matter in water that degrades the quality of the water.

(11) "Design storm event" means a hypothetical storm event, of a given frequency interval and duration, used in the analysis and design of a stormwater facility. The estimated design rainfall amounts, for any return period interval (i.e., 1-yr, 2-yr, 5-yr, 10-yr, 25-yr, etc.) in terms of either twenty-four (24) hour depths or intensities for any duration, can be found by accessing the NOAA National Weather Service Atlas 14 data for Tennessee. For temporary erosion and sediment control practices, the design storm is the 5-year, 24-hour event. Other data sources may be acceptable with prior written approval by TDEC Water Pollution Control.

(12) "Discharge" means dispose, deposit, spill, pour, inject, seep, dump, leak or place by any means, or that which is disposed, deposited, spilled, poured, injected, seeped, dumped, leaked, or placed by any means including any direct or indirect entry of any solid or liquid matter into the municipal separate storm sewer system.

(13) "Disturbed area" or "disturbance," means the total area presented as part of the development (and/or of a larger common plan of development) subject to being cleared, graded, or excavated during the life of the development. The area cannot be limited to only the portion of the total area that the site-wide owner/developer initially disturbs through the processes of various land clearing activities or in the construction of roadways, sewers and water utilities, stormwater drainage structures etc. to make the property marketable.

(14)—"Easement" means an acquired privilege or right of use or enjoyment that a person, party, firm, corporation, city or other legal entity has in the land of another.

(15) "Enforcement Response Plan (ERP)" is a set of procedures which present the permittee's potential responses to violations and address repeat violation through progressive enforcement as needed to achieve compliance. These enforcement responses should be commensurate with the nature of the violation and must include enforcement responses progressing up to the maximum civil and criminal penalties as described in T.C.A. 69-3-101, et seq. the enforcement response procedures or methods must address all violations of prohibitions and requirements applicable to this permit that are contained in the permittee's statutes, codes or other control mechanisms as well as other violations of the permit. The enforcement response procedures or methods documentation must be referenced by or included in the permittee's statutes, codes or other control mechanisms. The enforcement responses may include actions such as written notices, citations with administrative penalties, stop work orders, withholding of plans approvals or other authorizations, or any other administrative judicial action.

(16) "Erosion" means the removal of soil particles by the action of water, wind, ice or other geological agents, whether naturally occurring or acting in conjunction with or promoted by human activities or effects.

(17) "Erosion Prevention and Sediment Control Plan (EPSCP)" means a written plan (including drawings or other graphic representations) that is designed to minimize the erosion and sediment runoff at a site during construction activities.

~~(176) "HotspotPriority area" means an area where land use or activities generate highly contaminated runoff, with concentrations of pollutants in excess of those typically found in~~

stormwater. The following land uses and activities are deemed stormwater hotspots priority areas, but that term is not limited to only these land uses:

- (a) ~~Vehicle salvage yards and recycling facilities;~~
- (b) ~~Vehicle service and maintenance facilities;~~
- (c) ~~Vehicle and equipment cleaning facilities;~~
- (d) ~~Fleet storage areas (bus, truck, etc.);~~
- (e) ~~Industrial sites (included on standard industrial classification code list);~~
- (f) ~~Marinas (service and maintenance);~~
- (g) ~~Public works storage areas;~~
- (h) ~~Facilities that generate or store hazardous waste materials;~~
- (i) ~~Commercial container nursery;~~
- (j) ~~Restaurants and food service facilities; or~~
- (k) ~~Other land uses and activities as designated by an appropriate review authority~~

(18) ~~-"Exceptional Tennessee Waters." Surface waters designated by the Division as having the characteristics set forth at Tennessee Rules, Chapter 0400-40-03-.06(4). Characteristics include waters within parks or refuges, scenic rivers, waters with threatened or endangered species, waters that provide specialized recreational opportunities, waters within areas designated as lands, waters with naturally reproducing trout, waters with exceptional biological diversity and other waters with outstanding ecological or recreational value.~~

(19) "Illicit connections" means illegal and/or unauthorized connections to the municipal separate stormwater system whether or not such connections result in discharges into that system.

(20) "Illicit discharge" means any discharge to the municipal separate storm sewer system that is not composed entirely of stormwater and not specifically exempted under §14-507(2).

(21) "Improved sinkhole" is a natural surface depression that has been altered in order to direct fluids into the hole opening. Improved sinkhole is a type of injection well regulated under TDEC's Underground Injection Control (UIC) program. Underground injection constitutes an intentional disposal of waste waters in natural depressions, open fractures, and crevices (such as those commonly associated with weathering of limestone).

(22) "Inspector." An inspector is a person that has successfully completed (has a valid certification from) the "Fundamentals of Erosion Prevention and Sediment Control Level 1" course or equivalent course, a licensed professional engineer or landscape architect, a Certified

Professional in Erosion and Sediment Control (CPESC), or a person who has successfully completed the “Level 2H – Design Principles for Erosion Prevention and Sediment Control for Construction Site” course. An inspector performs and documents the required inspections, paying particular attention to time-sensitive permit requirements such as stabilization and maintenance activities. An inspector may also have the following responsibilities:

(a) Oversee the requirements of other construction-related permits, such as Aquatic Resources Alteration Permit (ARAP) or Corps of Engineers permit for construction activities in or around waters of the state;

(b) Conduct pre-construction inspection to verify that undisturbed areas have been properly marked and initial measures have been installed; Update field Stormwater Pollution Prevention Plan(s) (SWPPP);

(c) Update field Stormwater Pollution Prevention Plan(s) (SWPPP);
~~and Conduct pre-construction inspection to verify that undisturbed areas have been properly marked and initial measures have been installed; and~~

(d) Inform the permit holder of activities that may be necessary to gain or remain in compliance with the Construction General Permit (CGP) and other environmental permits.

(23) "Land disturbing activity" means any activity on property that results in a change in the existing soil cover (both vegetative and non-vegetative) and/or the existing soil topography. Land-disturbing activities include, but are not limited to, development, re-development, demolition, construction, reconstruction, clearing, grading, filling, and excavation.

(24) "Maintenance" means any activity that is necessary to keep a stormwater facility in good working order so as to function as designed. Maintenance shall include complete reconstruction of a stormwater facility if reconstruction is needed in order to restore the facility to its original operational design parameters. Maintenance shall also include the correction of any problem on the site property that may directly impair the functions of the stormwater facility. Maintenance programs have the ultimate goal of preventing or reducing pollutant runoff from municipal operations.

(25) "Maintenance agreement" means a document recorded in the land records that acts as a property deed restriction, and which provides for long-term maintenance of stormwater ~~management practices~~ control measures (SCMs).

(26) "Municipal Separate Storm Sewer System (MS4)." Defined in 40 CFR § 122.26(b)(8) to mean a conveyance or system of conveyances (e.g., roads with drainage systems, municipal streets, catch basins, curbs, gutters, ditches, man-made channels, or storm drains) that are:

(a) Owned or operated by a State, city, town, borough, county, parish, district, association, or other public body (created by or pursuant to State law) having jurisdiction over disposal of sewage, industrial wastes, stormwater, or other wastes, including special districts under State law such as a sewer district, flood control district or

drainage district, or similar entity, or an Indian tribal organization or an authorized Indian tribal organization, or a designated and approved management agency under section 208 of the CWA that discharges to waters of the United States;

(b) Designed or used for collecting or conveying stormwater;

(c) Not a combined sewer; and

(d) Not part of a Publicly Owned Treatment Works (POTW) as defined at 40 CFR § 122.2.

(27) "National Pollutant Discharge Elimination System permit" or a "NPDES permit" means a permit issued pursuant to 33 U.S.C. 1342.

(28) "Off-site facility" means a structural BMP located outside the subject property boundary described in the permit application for land development activity.

(29) "On-site facility" means a structural BMP located within the subject property boundary described in the permit application for land development activity.

(30) "Operator" in the context of stormwater associated with construction activity, means any person associated with a construction project that meets either of the following two criteria:

(a) This person has operational or design control over construction plans and specifications, including the ability to make modifications to those plans and specifications. This person is typically considered the owner or developer of the project or a portion of the project (e.g., subsequent builder) or the person who is the current owner of the construction site, and is considered the primary permittee; or

(b) This person has day-to-day operational control of those activities at a project which are necessary to ensure compliance with a SWPPP for the site or other permit conditions. This person is typically a contractor or a commercial builder who is hired by the primary permittee and is considered a secondary permittee.

It is anticipated at different phases of a construction project, different types of parties may satisfy the definition of "operator."

(31) "Peak flow" means the maximum instantaneous rate of flow of water at a particular point resulting from a storm event.

(32) "Permanent Stabilization" all soil disturbing activities at the site have been completed and one of the three following criteria is met:

(a) A perennial, preferable native, vegetative cover with uniform (i.e., evenly distributed, without large bare areas) density of at least 70 percent has been established on all unpaved areas and areas not covered by permanent structures, and all slopes and channels have been permanently stabilized against erosion.

(b) Equivalent permanent stabilization measures such as the use of riprap; permanent geotextiles; hardened surface materials including concrete, asphalt, gabion

baskets or Reno mattresses have been employed.

(c) For construction projects on lands used for agricultural or silvicultural purposes, permanent stabilization may be accomplished by returning the disturbed land to its preconstruction agricultural or silvicultural use, see “stabilization”

(33) "Person" means any and all persons, natural or artificial, including any individual, firm or association and any municipal or private corporation organized or existing under the laws of this or any other state or country.

(34) “Point Source or Outfall” means any discernible, confined, and discrete conveyance, including but not limited to, any pipe, ditch, channel, tunnel, conduit, well, discrete fissure, container, rolling stock, concentrated animal feeding operation, landfill leachate collection system, vessel or other floating craft from which pollutants are or may be discharged. This term does not include introduction of pollutants from non-point source agricultural or silvicultural activities, including stormwater runoff from orchards, cultivated crops, pastures, range lands, forest lands or return flows from irrigated agriculture or agricultural stormwater runoff. In short, outfall is a point where runoff leaves the site as a concentrated flow in a discrete conveyance.

(35) "Priority area" means an area where land use or activities generate highly contaminated runoff, with concentrations of pollutants in excess of those typically found in stormwater. The following land uses and activities are deemed stormwater priority areas, but that term is not limited to only these land uses:

- (a) Vehicle salvage yards and recycling facilities;
- (b) Vehicle service and maintenance facilities;
- (c) Vehicle and equipment cleaning facilities;
- (d) Fleet storage areas (bus, truck, etc.);
- (e) Industrial sites (included on standard industrial classification code list);
- (f) Marinas (service and maintenance);
- (g) Public works storage areas;
- (h) Facilities that generate or store hazardous waste materials;
- (i) Commercial container nursery;
- (j) Restaurants and food service facilities; or
- (k) Other land uses and activities as designated by an appropriate review authority

(36) "Redevelopment" means building or constructing new infrastructure in an area that has previously been built or constructed on, and the old infrastructure is to be replaced with new that results in a disturbed area of at least 10,000 sq. ft.

(37) "Runoff," ~~means that portion of the precipitation on a drainage area that is discharged from the area into the municipal separate storm sewer system. Runoff factors can include impervious surface, slopes, and site drainage features, see "Sstormwater".~~

(38) "Sediment" means solid material, both inorganic (mineral) and organic, that is in suspension, is being transported, or has been moved from its site of origin by air, water, gravity, or ice ~~and has come to rest on the earth's surface either above or below sea level as a product of erosion.~~

(39) "Sedimentation" means the action or process of forming or depositing sediment. soil particles suspended in stormwater that can settle in stream beds.

(40) "Sinkhole" means a cavity in the ground providing a route for surface water to disappear underground. Sinkholes are a vital component of the drainage network and are subject to clogging by sediment and debris.

(41) "Soils report" means a study of soils on a subject property with the primary purpose of characterizing and describing the soils. The soils report shall be prepared by a qualified soils engineer, who shall be directly involved in the soil characterization either by performing the investigation or by directly supervising employees conducting the investigation.

(42) "Stabilization" means providing adequate measures, vegetative and/or structural, that will prevent erosion from occurring, see "Ppermanent Stabilization" and "Ttemporary stabilization."

(43) "Stormwater" means stormwater-rainfall runoff, snow melt runoff, and surface runoff and drainage., ~~street wash waters related to street cleaning or maintenance, infiltration and drainage.~~

(44) "Stormwater control measure (SCM)" means permanent practices and measures designed to reduce the discharge of pollutants from new development projects or redevelopment projects.

(45) "Stormwater entity" means the entity designated by the city to administer the stormwater management ordinance, and other stormwater rules and regulations adopted by the city.

(46) "Stormwater management" means the programs to maintain quality and quantity of stormwater runoff to pre-development levels.

(47) "Stormwater management facilities" means the drainage structures, conduits, ponds, ditches, combined sewers, sewers, and all device appurtenances by means of which stormwater is collected, transported, pumped, treated or disposed of.

(48) "Stormwater management plan" ~~is a written compilation of the elements of the Stormwater Management Program. It is considered a single document, even though it actually consists of separate stand-alone components. means the set of drawings and other documents that comprise all the information and specifications for the programs, drainage systems, structures, BMPs, concepts and techniques intended to maintain or restore quality and quantity of stormwater runoff to pre-development levels.~~

(49) "Stormwater system" or "system" means all stormwater facilities, stormwater drainage systems and flood protection systems of the city and all improvements thereto which operate to, among other things, control discharges and flows necessitated by rainfall events; and incorporate methods to collect, convey, store, absorb, inhibit, treat, prevent or reduce flooding, over drainage, environmental degradation and water pollution or otherwise affect the quality and quantity of discharge from such system.

(50) "Stormwater Pollution Prevention Plan (SWPPP)" means a written ~~site-specific~~ plan that includes a narrative pollution prevention plan and graphical erosion and sediment control plan. In its basic form, the plan contains a site map(s), an identification a description of construction/contractor activities that could introduce cause pollutants in the to stormwater runoff, and a description of measures or practices to control these pollutants, and erosion and sediment control plans and specifications. It must be prepared and ~~submitted-approved~~ before construction begins. In order to effectively reduce erosion and sedimentation impacts, Best Management Practices (BMPs) must be designed, installed, and maintained during land disturbing activities. The SWPPP should be prepared in accordance with the current Tennessee Erosion and Sediment Control Handbook. ~~The handbook is intended for use during the design and construction of projects that require erosion and sediment controls to protect waters of the state. It also aids in the development of SWPPPs and other reports, plans, or specifications required when participating in Tennessee's water quality regulations. All SWPPPs shall be prepared and updated in accordance with section 3 of the general NPDES permit for discharges of stormwater associated with construction activities.~~

(51) "Stormwater runoff," ~~means flow on the surface of the ground, resulting from precipitation, see "runoffSstormwater".~~

(52) "Stream" means a surface water that is not a wet weather conveyance. [Rules and Regulations of the State of Tennessee, Chapter ~~1200-4-3-.04(20)0400-40-03~~]. Stream includes lakes, wetlands and other non-linear surface waters. See also "waters of the state."

(53) "Structural BMPs" means facilities that ~~are constructed to provide control of help prevent pollutants in~~ stormwater runoff from leaving the site.

(54) "Surety" is a letter of credit or other acceptable form of assurance for completion of improvements as needed acceptable by the city attorney, administrator, and/or other city personnel.

(55) "Surface water" includes waters upon the surface of the earth in bounds created naturally or artificially including, but not limited to, streams, other water courses, lakes and reservoirs.

(56) "Temporary stabilization" is achieved when vegetation or non-erodible surface has been established on the area of disturbance and construction activity has temporarily ceased. Under certain conditions, temporary stabilization is required when construction activities temporarily cease. However, if future construction activity is planned, permit coverage continues, see "stabilization."

(57) "Waste site" means an area where ~~waste~~ material from a construction site is ~~deposited~~disposed of. When the material is erodible, such as soil, the site must be treated as a construction site.

(58) "Water quality riparian buffer zone" see "Buffer zone."

(59) "Water quality treatment volume (WQTV)" means a portion of the runoff generated from impervious surfaces at a new development or redevelopment project by the design storm.

(60) "Watercourse" means a permanent or intermittent stream or other body of water, either natural or man-made, which gathers or carries surface water.

(61) "Watershed" means all the land area that contributes runoff to a particular point along a waterway.

(62) "Waters" or "waters of the state" means any and all water, public or private, on or beneath the surface of the ground, which are contained within, flow through, or border upon Tennessee or any portion thereof except those bodies of water confined to and retained within the limits of private property in single ownership which do not combine or effect a junction with natural surface or underground waters.

(63) "Wetland(s)" means those areas that are inundated or saturated by surface or groundwater at a frequency and duration sufficient to support, and under normal conditions do support, a prevalence of vegetation typically ~~adapted~~ to life in saturated soil conditions. Wetlands generally include, but are not limited to, swamps, marshes, bogs, and similar areas.

(64) "Wet weather conveyances" are man-made or natural watercourses, including natural watercourses that have been modified by channelization, that flow only in direct response to precipitation runoff in their immediate locality and whose channels are at all times above the groundwater table and are not suitable for drinking water supplies; and in which hydrological and biological analyses indicate that, ~~under normal weather conditions~~, due to naturally occurring ephemeral or low flow during normal weather conditions, there is not sufficient water to support fish or multiple populations of obligate lotic aquatic organisms whose life cycle includes an aquatic phase of at least two months. (Rules and Regulations of the State of Tennessee, Chapter ~~1200-4-3-.04(3)0400-40-03~~). (~~Ord. #04-651, Jan. 2005, as replaced by Ord. #15-830, Feb. 2015~~)

18-303. Waivers.

(1) General. No waivers will be granted to any construction or site work project. All construction and site work shall provide for stormwater management as required by this ordinance. However, alternatives to the primary requirement(s) for on-site permanent stormwater management may be considered, if:

(a) Management measures cannot be designed, built and maintained to infiltrate, evapotranspire, harvest and/or use, at a minimum, the ~~first inch~~water quality treatment volume (WQTV) of every rainfall event preceded by seventy-two (72) hours of no measurable precipitation. ~~This first inch of rainfall must be one hundred percent (100%) managed with no discharge to surface waters~~Refer to the WQTV table within Section 18-305.4.ed for minimum requirements for treatment volumes and treatment types.

(b) It can be demonstrated that the proposed development will not discharge, during or after construction, stormwater runoff that contains contaminants or will otherwise not affect, impair or degrade adjacent or downstream properties, conveyances, or streams.

(c) Alternative minimum requirements for on-site management of stormwater discharges have been established in a stormwater management plan that has been approved by the city.

(2) Downstream damage, etc. prohibited. In order to receive consideration, the applicant must demonstrate to the satisfaction of the administrator that the proposed alternative will not lead to any of the following conditions downstream:

- (a) Deterioration of existing culverts, bridges, dams, structures or land;
- (b) Degradation of biological functions or habitat;
- (c) Accelerated streambank or streambed erosion or siltation;
- (d) Increased threat of flood damage to public health, life or property.

(3) Alternative request procedure. For consideration of an alternative stormwater management measure, a formal request shall be submitted to the administrator. The formal request shall be submitted with a stormwater management plan outlining why the primary stormwater management measure cannot be addressed and how the alternative measures will address the provisions outlined in this Ordinance. The plan shall demonstrate how the proposed development is not likely to impair attainment of the objectives of this chapter. The administrator shall notify the appellant customer of the date of the alternative request in writing; such written notice shall be given at the address provided following review of the request. The decision made by the administrator will be final and conclusive with no further administrative review.

(4) Land disturbance permit not to be issued where alternatives requested. No land disturbance permit shall be issued where an alternative has been requested until the alternative is approved, unless allowed by the administrator. If no alternative is approved, the plans must be resubmitted with a stormwater management plan that meets the primary requirement for on-site stormwater management. If no alternative is approved, the owner has thirty (30) days to resubmit the land disturbance permit without facing additional fees. If the land disturbance permit is submitted more than thirty (30) days following the alternative request decision by the administrator, applicable fees will be charged.

18-304. Land disturbance permit.

(1) General. The land disturbance permit is to be obtained by the owner(s) or owner(s) designee(s) for development or redevelopment of 10,000 sq. ft., or greater over an acre, or less than 10,000 sq. ft. ~~one (1) acre~~ if part of a larger plan of common development or sale. The land disturbance permit is designed to track all applicable land disturbance activities and ensure they are monitored for compliant erosion prevention and sediment controls, the absence of illicit discharges leaving the site, and compliance with the city's TDEC NPDES MS4 general permit along with any applicable TDEC construction general permits, TDEC Aquatic Resources Alteration Permits (ARAP), and any other relevant permits. Tracking of these activities allows inspection, and in cases of non-compliance, enforcement actions to be taken.

(2) Exemptions. The following land disturbance activities are exempt from the requirements of obtaining a land disturbance permit:

(a) Surface mining as is defined in Tennessee Code Annotated, § 59-8-202.

(b) Such minor land disturbing activities as home gardens and individual home landscaping, home repairs, home additional or modifications, home maintenance work, and other related activities that result in no soil erosion leaving the site. (Erosion Prevention and Sediment Control (ESPC) practices may be enforced through individual building permits.)

(c) Agriculture practices involving the establishment, cultivation or harvesting of products in the field or orchard, preparing and planting of pastureland, farm ponds, dairy operations, livestock and poultry management practices. Refer to Section 18-302 for additional approved agricultural land management activities.

(d) Any project carried out under the technical supervision of NCRS, TDOT, TDEC, or USACE that is covered under applicable state or federal construction permits.

(e) Installation, maintenance, and repair of any underground public utility lines when such activity occurs on an existing road, street, or sidewalk which is hard surfaced and such street, curb, gutter, or sidewalk construction has been approved.

(f) Any emergency activity that is immediately necessary for the protection of life, property, or natural resources.

These activities may be undertaken without a land disturbance permit; however, the person conducting these excluded activities shall remain responsible for conducting these activities within accordance with provisions of this ordinance and other applicable regulations including responsibility for controlling sediment, illicit discharges, and runoff.

(3) Supplemental permit. In cases where a secondary owner/operator will be working within an area already covered by an existing land disturbance permit that was issued under the name of a primary owner/operator, a supplemental land disturbance permit shall be obtained prior to commencement of the secondary owner/operator's work. The application fee may be waived for any supplemental permit. Where applicable, prior to issuance of the supplemental land disturbance permit, the secondary owner/operator must show that coverage under the site's NPDES construction general permit has been obtained. Once covered by a land disturbance permit, all primary and secondary owner/operators will be considered by the city as co-permittees. If co-permittee's involvement in the construction activities affects the same project site, they will be held jointly and severally responsible for complying with the terms of the permits issued for that site.

(4) Application. Application for the land disturbance permit shall be made to the administrator by the property owner(s) and co-permittee (if applicable). Applications are available from the assigned division. No land disturbing activities shall take place prior to approval of the land disturbance permit application. Application fees must be paid prior to issuance of the land disturbance permit.

(5) Permit requirements. The following are conditions of land disturbance permit coverage. Any violation of these conditions will make the permit holder(s) subject to all enforcement actions and penalties outlined in this ordinance.

(a) Submittal and approval by city staff and board(s) of the erosion prevention and sediment control plans.

(b) Compliance with the site's TDEC construction general permit, TDEC ARAP, TDEC underground injection well permit, FEMA flood-plain development permit, and other federal or state permits where applicable.

(c) Compliance with approved erosion prevention and sediment control plan and EPSC performance standards.

(d) Implementation and maintenance of appropriate erosion prevention and sediment control best management practices.

(e) Construction site operators must control wastes such as discarded building materials, concrete truck washouts, chemicals, litter, and sanitary waste at the construction site to avoid adverse impacts to water quality.

(6) Land disturbance surety. Prior to the issuance of a permit for any land disturbance activity, the applicant shall be required to provide a surety to the City of Goodlettsville to

guarantee completion of all land and grade stabilization measures and improvements as shown by the approved grading plan. For areas when potentially hazardous soil or drainage conditions exist due to types of soils, steep grades, floodplain development, streams, or drainage ditches, the applicant may be required to provide a surety to guarantee completion of all land and grade stabilization measures and improvements as shown by the approved plan. ~~A surety will not be required for land disturbance activity less than one acre or land disturbance activity as part of a larger common plan of development or sale that is less than one acre.~~

(7) Permit duration. Each land disturbance permit shall expire and become null and void when one of the following has occurred:

- (a) Six (6) months of no activity on the site has occurred.
- (b) Final stabilization of the site per the approved plans has occurred.
- (c) Issuance of a TDEC Notice of Termination (NOT). A copy must be provided to the city in order to close out the land disturbance permit.
- (d) Three (3) years from issuance of permit or if new federal or state regulations exist changing the scope of coverage where a new land disturbance permit is required.
- (e) In cases of expiration of the land disturbance permit, a permit may be re-issued with no additional fee if the plan and scope of the project submitted on the original land disturbance permit does not significantly change. When significant change applies, new permit fees must be paid. ~~(Ord. #04-651, Jan. 2005, as replaced by Ord. #15-830, Feb. 2015, and amended by Ord. #19-939, June 2019 Ch4_1-23-20)~~

18-305. Stormwater system design: construction and permanent stormwater management performance standards.

(1) Applicability. This section shall be applicable to all land development, including, but not limited to, site plan applications, subdivision applications, land disturbance applications and grading applications. The requirements in this section shall apply to any new development or redevelopment site that meets one or more of the following criteria:

- (a) 10,000 square feet or more;
 - (i) New development that involves land disturbance activities of 10,000 square feet or more;
 - (ii) Redevelopment that involves other land disturbance activity of 10,000 square feet or more;
- (b) Developments and redevelopments less than 10,000 square feet of total land disturbance may also be required to obtain authorization under this ordinance if:

(i) The administrator has determined that the stormwater discharge from a site is causing, contributing to, or is likely to contribute to a violation of a state water quality standard;

(ii) The administrator has determined that the stormwater discharge is, or is likely to be a significant contributor of pollutants to waters of the state; or

(iii) Any new development or redevelopment, regardless of size, that is defined by the administrator to be a ~~hotspot~~ priority area land use.

(c) Other instances in which ~~an LDP~~ land disturbance permit will be required include:

(i) Change in elevation of property at the discretion of the Administrator.

(ii) Any land disturbance that requires coverage under a TDEC construction general permit.

(iii) Any disturbance that requires coverage under a TDEC ARAP.

(d) Variance Procedures. The Stormwater Administrator shall hear requests for variances from the requirements of this regulation. Requests for variances must be filed on a form provided by the Stormwater Administrator and will be handled in accordance with these variance procedures and internal operating rules and regulations. If the conditions under which a variance was approved are not met, or if the Stormwater Administrator is informed of any misrepresentation of facts in the application or at the hearing, the Stormwater Administrator may issue a Stop Work Order or may withhold the Use and Occupancy Permit for a project until any problems identified are resolved to the satisfaction of the issuing department.

(2) General requirements. Stormwater at applicable developments and redevelopments shall be managed in accordance with the requirements contained within this section.

(a) Any discharge of stormwater or other fluid to an improved sinkhole or other injection well, as defined, must be authorized by permit or rule as a Class V underground injection well under the provisions of Tennessee Department of Environment and Conservation (TDEC) Rules, chapter ~~1200-4-60~~ 400-45-06.

(b) Stormwater design or BMP manuals.

(i) Adoption. The city adopts as its MS4 stormwater design, ~~and~~ Best Management Practices (BMP) and Stormwater Control Measures (SCM) manuals for stormwater management, construction and permanent, the following publications, which are incorporated by reference in this ordinance as if fully set out herein:

(A) TDEC Erosion Prevention and Sediment Control Handbook; most current edition.

(B) Tennessee Permanent Stormwater Management and Design Guidance Manual; most current edition.

(C) Tennessee Guide to the Selection and Design of Stormwater Best Management Practices (BMPs)

(D) Metro Nashville Stormwater Management Manual Volume 5, Low Impact Development

(E) And/or a collection of city approved BMPs and SCMs.

(ii) The publications listed above include a list of acceptable BMPs and SCMs including the specific design performance criteria and operation and maintenance requirements. These include city approved BMPs-SCMs for permanent stormwater management including green infrastructure SCMBMPs.

(iii) Stormwater facilities that are designed, constructed and maintained in accordance with these publications will be presumed to meet the minimum water quality performance standards. Refer to the WQTV table within Section 18-305.4 for minimum requirements for treatment volumes and treatment types.

(c) Submittal of a copy of the NOC, SWPPP and NOT to the local MS4:

(i) Permittees who discharge stormwater through an NPDES-permitted Municipal Separate Storm Sewer System (MS4) who are not exempted in section 1.4.5 (permit coverage through qualifying local program) of TDEC's Construction General Permit (CGP) must provide proof of coverage under the Construction General Permit (CGP); submit a copy of the Stormwater Pollution Prevention Plan (SWPPP); and at project completion, a copy of the signed Notice of Termination (NOT) to the administrator. Permitting status of all permittees covered (or previously covered) under this general permit as well as the most current list of all MS4 permits is available at the TDEC's data viewer web site.

(ii) Copies of additional applicable local, state or federal permits (i.e.: ARAP, etc.) must also be provided upon request.

(iii) If requested by the city, these permits must be provided before the issuance of any land disturbance permit or the equivalent.

(3) Stormwater pollution prevention plans for construction stormwater management.

(a) Requirement to prepare a SWPPP: The applicant must prepare a stormwater pollution prevention plan (SWPPP) for all construction activities that complies with subsection (6) below. The purpose of this plan is to identify owner/operator activities that could cause pollutants in the stormwater, and to describe measures or practices to control these pollutants during project construction.

(b) Stormwater pollution prevention plan general requirements: The erosion prevention and sediment control plan component of the SWPPP shall adhere to the following requirements.

(i) The potential for soil erosion and sedimentation problems resulting from land disturbing activity shall be accurately described;

(ii) The measures that are to be taken to control soil erosion and sedimentation problems shall be explained and illustrated;

(iii) The length and complexity of the plan must be commensurate with the size of the project, severity of the site condition, and potential for off-site damage.

(iv) If necessary, the measures to control soil erosion and sedimentation problems that are described in the plan shall be phased so that changes to the site that alter drainage patterns or characteristics during construction will be addressed by an appropriate phase of the plan.

(v) The plan shall be sealed by a registered professional engineer or landscape architect licensed in the State of Tennessee.

(vi) The plan shall conform to the requirements found in the general NPDES permit for stormwater discharges from construction activities (TNR100000), and shall include at least the following:

(A) Project description - Briefly describe the intended project and proposed land disturbing activity including number of units and structures to be constructed and infrastructure required.

(B) A topographic map with contour intervals of five feet (5') or less showing present conditions and proposed contours resulting from land disturbing activity.

(C) All existing drainage ways, including intermittent and wet-weather. Include any designated floodways or flood-plains.

(D) A general description of existing land cover. Individual trees and shrubs do not need to be identified.

(E) Stands of existing trees as they are to be preserved upon project completion, specifying their general location on the property. Differentiation shall be made between existing trees to be preserved, trees to be removed and proposed planted trees. Tree protection measures must be identified, and the diameter of the area involved must also be identified on the plan and shown to scale. Information shall be supplied concerning the proposed destruction of exceptional and historic trees in setbacks and buffer strips, where they exist. Complete landscape plans may be

submitted separately. The plan must include the sequence of implementation for tree protection measures.

(F) Approximate limits of proposed clearing, grading and filling.

(G) Approximate flows of existing stormwater leaving any portion of the site.

(H) A general description of existing soil types and characteristics and any anticipated soil erosion and sedimentation problems resulting from existing characteristics.

(I) Location, size and layout of proposed stormwater and sedimentation control improvements.

(J) Existing and proposed drainage network.

(K) Proposed drain tile or waterway sizes.

(L) Approximate flows leaving site after construction and incorporating water run-off mitigation measures. The evaluation must include projected effects on property adjoining the site and on existing drainage facilities and systems. The plan must address the adequacy of outfalls from the development: when water is concentrated, what is the capacity of waterways, if any, accepting stormwater off-site; and what measures, including infiltration, sheeting into buffers, etc., are going to be used to prevent the scouring of waterways and drainage areas off-site, etc.

(M) The projected sequence of work represented by the grading, drainage and sedimentation and erosion control plans as related to other major items of construction, beginning with the initiation of excavation and including the construction of any sediment basins, sediment traps, or retention/detention facilities or any other structural BMPs. Sediment should be removed from sediment controls as recommended in the Tennessee Erosion and Sediment Control Handbook and must be removed when design capacity has been reduced by 50~~fifty~~ percent. For construction sites discharging into a water with unavailable parameters due to siltation/sedimentation or Exceptional Tennessee Waters, a sediment trap shall be provided for drainage areas of 3.5 to 4.9 acres that will provide treatment for a calculated volume of runoff from a 5-year, 24-hour design storm and runoff from each acre drainage or equivalent measures. For an on-site outfall which receives drainage from ten (10) or more acres, a sediment basin that will provide treatment for a calculated volume of runoff from a 52-year, 24-hour design storm and runoff from each acre drainage or equivalent control measures shall be provided until final stabilization of the site. For construction sites discharging into a

water with unavailable parameters due to siltation/sedimentation or Exceptional Tennessee Waters, a sediment basin shall be provided for drainage areas of five (5) acres or more acres that will provide treatment for a calculated volume of runoff from a 5-year, 24-hour design storm and runoff from each acre drainage or equivalent measures as specified in the Tennessee Erosion and Sediment Control Handbook. The design drainage area includes both disturbed and undisturbed portions of the site or areas adjacent to the site, all draining through a common outfall.

(N) Specific remediation measures to prevent erosion and sedimentation run-off. Plans shall include detailed drawings of all control measures used; stabilization measures including vegetation and non-vegetation measures, both temporary and permanent, will be detailed. Detailed construction notes and a maintenance schedule shall be included for all control measures in the plan.

(O) Specific details for: the construction of stabilized construction entrance/exits, concrete washouts, ~~and~~ sediment basins, and sediment traps for controlling erosion; road access points; eliminating or keeping soil, sediment, and debris on streets and public ways at a level acceptable to the city. Soil, sediment, and debris brought onto streets and public ways must be removed by the end of the work-day to the satisfaction of the city. Failure to remove the sediment, soil or debris shall be deemed a violation of this ordinance.

(P) Proposed structures: location and identification of any proposed additional buildings, structures or development on the site.

(Q) A description of on-site measures to be taken to recharge surface water into the ground water system through runoff reduction practices.

(R) Specific details for construction waste management. Construction site operators shall control waste such as discarded building materials, concrete truck washout, petroleum products and petroleum related products, chemicals, litter, and sanitary waste at the construction site that may cause adverse impacts to water quality. When the material is erodible, such as soil, the site must be treated as a construction site.

(4) Stormwater quality. To implement the objectives of this ordinance, the following general stormwater quality policy statements shall apply:

(a) There shall be no distinctly visible floating scum, oil, or other matter contained in the stormwater discharge.

(b) The stormwater discharge must not cause an objectionable color contrast in the receiving stream.

(c) The design storm for water quality treatment design shall be the 1-year, 24-hour design storm event.

(d) All roof runoff is presumed to be contaminated and, therefore, is to be included within the water quality treatment volume.

(e) The water quality treatment volume (WQTV) is the portion of the runoff generated from impervious surfaces at a new development or redevelopment project from the design storm. SCMs must be designed, at a minimum to achieve an overall treatment efficiency of eighty percent (80%) TSS removal from the WQTV. The quantity of the WQTV that must be provided from a new development or redevelopment depends on the type of treatment provided, as established in the following table:

<u>Water Quality Treatment Volume and the Corresponding SCM Treatment Type for the 1-year, 24-hour design storm</u>		
<u>SCM Treatment Type</u>	<u>WQTV</u>	<u>Notes</u>
<u>infiltration, evaporation, transpiration, and/or reuse</u>	<u>Runoff generated from the first 1 inch of the design storm</u>	<u>Examples include, but are not limited to bioretention, stormwater wetlands, and infiltration systems</u>
<u>Biologically active filtration, with an underdrain</u>	<u>Runoff generated from the first 1.25 inches of the design storm</u>	<u>To achieve biologically active filtration, SCMs must provide minimum of 12 inches of internal water storage.</u>
<u>Sand or gravel filtration, settling ponds, extended detention ponds, and wet ponds</u>	<u>Runoff generated from the first 2.5 inches of the design storm or the first seventy-five percent (75%) of the design storm, whichever is less</u>	<u>Examples include, but are not limited to, sand filters, permeable pavers, and underground gravel detention systems. Ponds must provide forebays comprising a minimum of 10% of the total design volume. Existing regional detention ponds are not subject to the forebay requirement.</u>
<u>Hydrodynamic separation, baffle box settling, other treatment devices (MTDs), and treatment trains using MTDs</u>	<u>Maximum runoff generated from the entire design storm</u>	<u>Flow-through MTDs must provide an overall treatment efficiency of at least 80% TSS reduction</u>

(f) Treatment trains using MTDs shall use the following calculation:

$$R = A + B - (A \times B) / 100$$

Where:

R = total TSS percent removal from application of both SCMs

A = the TSS percent removal rate applicable to the first SCM

B = the TSS percent removal rate applicable to the second SCM

TSS removal rates for MTD must be evaluated using industry-wide standards

TSS removal rates for other SCMs must be from published reference literature

(g) Treatment trains using infiltration, evaporation, transpiration, reuse, or biologically active filtration followed by sand or gravel filtration, settling ponds, extended detention ponds or wet ponds may subtract the treated WQTV of the upstream SCMS from the WQTV of the downstream SCMs. Additional requirements for infiltration-based SCM treatment devices are as follows:

(i) Infiltration testing shall be required for infiltration based SCMs;

(ii) The site Engineer shall select the appropriate infiltration testing methodology, such as those provided within Metro Nashville Stormwater Management Manual; and

(iii) At a minimum, testing shall identify a minimum 2-ft separation from bedrock.

(h) SCMs must 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.

(i) Calculations demonstrating compliance with this section must be submitted with the Concept Plan for subdivisions and planned developments. They must be submitted with the Site Plan for all other developments.

(j) Incentive standard: The following types of development or redevelopment shall receive a twenty percent (20%) reduction in the water quality treatment volume for any one of the following conditions:

(ii) Redevelopment projects (including, but not limited to, brownfield redevelopment); and

(iii) Vertical density (floor to area ratio of at least 2, or at least 18 units per acre)

~~Design performance standards and requirements for permanent stormwater management. The following performance standards shall be addressed for permanent stormwater management at all applicable development and redevelopment sites effective as of fifteen (15) days following the adoption date of this ordinance:~~

~~(a) — Runoff reduction performance standard. The first inch of rainfall on the development or redevelopment shall be one hundred percent (100%) managed with no discharge to surface waters or the public storm sewer system. This standard shall be met using measures, alone or in combination, designed, built and maintained to infiltrate, evapotranspire or harvest and use the rainfall, in accordance with the site design layout practices and stormwater control measures provided in the Tennessee Permanent Stormwater Management and Design Guidance~~

Manual or reference Metro Nashville's Low Impact Development Design Guidelines, most current edition.

(i) — The pre-development infiltrative capacity of soils at the development or redevelopment must be taken into account in selection of infiltration-based stormwater control measures.

(ii) — The Tennessee Runoff Reduction Assessment Tool (TN-RRAT) or Metro Nashville's Stormwater Management Manual Volume 5, Low Impact Development design guidelines shall be used by the site designer to determine compliance with the runoff reduction requirement.

(iii) — Incentive standard: The following types of development or redevelopment shall receive a ten percent (10%) reduction in the volume of rainfall to be managed for any of the following types of development. Such incentives are additive such that a maximum reduction of fifty percent (50%) of the runoff reduction performance standard is possible for a project that meets all five (5) development types:

(A) — Redevelopment;

(B) — Brownfield redevelopment;

(C) — High density developments having greater than seven (7) units per acre;

(D) — Vertical density developments having a Floor to Area Ratio (FAR) of two (2) or greater than eighteen (18) units per acre; and

(E) — Mixed use and transit-oriented development that is located within one-half (1/2) mile of a mass transit station.

(b) — Runoff reduction performance standard compliance. Developments and redevelopments that achieve one hundred percent (100%) of the runoff reduction performance standard (or incentive standard if applicable) using only site design layout practices and/or stormwater control measures that are designed, built and maintained to infiltrate, evapotranspire or harvest and use the rainfall shall be exempt from compliance with the eighty percent (80%) TSS removal performance standard.

(c) — Runoff reduction limitations. Limitations to the application of runoff reduction requirements may prevent a development or redevelopment from meeting one hundred percent (100%) of the runoff reduction requirement. Such limitations may include, but are not limited to:

(i) — Natural physical conditions exist at the development or redevelopment that preclude or highly limit the use of infiltration practices. Such conditions include, but are not limited to, the following circumstances:

(A) — The presence of sinkholes or other karst features;

(B) — A high prevalence of shallow bedrock;

(C) — A high prevalence of poorly drained soils (i.e., hydrologic soil group D), such that soil amendments to promote infiltration must be extensive;

(D) — A high prevalence of contractive/expansive soils and their proximity to on-site or off-site structures;

(E) — Slopes greater than the maximums identified for the appropriate application of stormwater control measures;

(ii) — The development lacks the available area to create the necessary hydraulic capacity to fully achieve the runoff reduction requirement through infiltration or evapotranspiration; and,

(iii) — The proposed use for the development is inconsistent with the capture and re-use of stormwater;

(iv) — Soil or topographic conditions at the development dictate that stormwater control measures which rely on infiltration to reduce stormwater volumes would be located in close proximity to on-site or off-site subsurface foundations, basements or crawlspaces where wet conditions or flooding is known or suspected to occur;

(v) — Conditions exist at the development that create a potential for introducing pollutants into the groundwater, unless pre-treatment is provided;

(vi) — Pre-existing soil contamination is present in areas that are or could be subject to contact with infiltrated stormwater;

(vii) — The placement of on-site or off-site utilities precludes the use of stormwater control measures that infiltration, evapotranspire or harvest and use rainfall;

(viii) — The site has a historic or archeological significance that cannot be disturbed as determined by the state historic preservation office.

(d) — Eighty percent (80%) TSS removal performance standard: Developments and redevelopments that cannot meet one hundred percent (100%) of the runoff reduction performance standard using the site design layout practices and stormwater control measures provided in the Tennessee Permanent Stormwater Management and Design Guidance Manual must treat the remainder of the stipulated amount of runoff prior to discharge from the development or redevelopment with a technology documented to remove eighty percent (80%) Total Suspended Solids (TSS), unless an alternative provided under this ordinance is approved. The treatment technology must be designed, installed and maintained to continue to meet this performance standard.

(e) — It can be demonstrated that multiple criteria (not based solely on the difficulty or cost of implementing measures) rule out an adequate combination of infiltration, evapotranspiration, and reuse such as lack of available area to create the necessary infiltrative capacity; a site use that is inconsistent with capture and reuse of stormwater; physical conditions that preclude use of these practices.

(~~fk~~) Stormwater discharges to critical areas with sensitive resources (i.e., cold water fisheries, shellfish beds, swimming beaches, recharge areas, water supply reservoirs, etc.) may be subject to additional performance criteria, or may need to utilize or restrict certain stormwater management practices.

~~(g) — Stormwater discharges from hotspots may require the application of additional structural BMPs and pollution prevention practices beyond runoff reduction and eighty percent (80%) TSS removal practices.~~

~~(h) — Prior to or during the site design process, applicants for land disturbance permits shall consult with the administrator to determine if they are subject to additional stormwater design requirements.~~

~~(i) — The calculations for determining peak flows shall be used for sizing all stormwater facilities.~~

~~(5) — Minimum peak discharge control requirements. The administrator may establish standards to regulate the quantity of stormwater discharged, therefore:~~

~~(a) — Stormwater designs shall meet the storm frequency storage requirements; and,~~

(~~b~~1) If hydrologic or topographic conditions warrant greater control than that provided by the minimum control requirements, the administrator may impose any and all additional requirements deemed necessary to control the volume, timing, and rate of runoff.

(~~56~~) Permanent stormwater management plan requirements.

(a) Requirement to prepare a permanent stormwater management plan: The permanent stormwater management plan shall be prepared and submitted to the administrator for all applicable developments and redevelopments.

(b) The permanent stormwater management plan shall include sufficient information to allow the administrator to evaluate the environmental characteristics of the project site, the potential impacts of all proposed development of the site, both present and future, on the water resources, the appropriateness of the measures proposed for managing stormwater generated at the project site, and design compliance with the performance standards and requirements for permanent stormwater management identified in this ordinance.

(c) The permanent stormwater management plan shall be sealed by a registered professional engineer or landscape architect licensed in the State of Tennessee.

(d) The plan shall include, at a minimum, the elements listed below:

(i) Topographic base map: Topographic base map of the site which extends a minimum of one hundred feet (100') beyond the limits of the proposed development and indicates:

(A) Existing surface water drainage including streams, ponds, culverts, ditches, sink-holes, wetlands; and the type, size, elevation, etc., of nearest upstream and downstream drainage structures;

(B) Current land use including all existing structures, locations of utilities, roads, and easements;

(C) All other existing significant natural and artificial features;

(D) Proposed land use with tabulation of the percentage of surface area to be adapted to various uses; drainage patterns; locations of utilities, roads and easements; the limits of clearing and grading.

(ii) A completed site assessment and inventory checklist (found in the Tennessee Permanent Stormwater Management and Design Guidance Manual).

(iii) Proposed structural and non-structural BMPs and SCMs ~~and stormwater control measures~~;

(iv) A written description of the site plan and justification of proposed changes in natural conditions may also be required;

(v) Calculations: hydrologic and hydraulic design calculations for the predevelopment and post-development conditions for the design storms specified in the approved stormwater design, ~~and~~ BMP and SCM manuals. These calculations must show that the proposed stormwater management measures are capable of controlling runoff from the site in compliance with this chapter and the guidelines of the approved stormwater design ~~and~~, BMP and SCM manuals. Such calculations shall include:

(A) A description of the design storm frequency, duration, and intensity where applicable;

(B) Time of concentration;

(C) Soil curve numbers or runoff coefficients including assumed soil moisture conditions;

(D) EPSC design must control stormwater runoff, at a minimum, for the 5-year, 24-hour design storm.

(E) Post-development peak runoff discharge for each watershed for the 1-, 2-, 5-, 10-, 25-, 50-, and 100-year, 24-hour design storms showing discharge controlled to release at rates less than that of pre-development, with an emergency overflow capable of handling the 100-year, 24-hour discharge.

(F) Pre- and post-construction watershed maps;

(G) Infiltration rates, where applicable;

(H) The location, size and capacity of proposed stormwater management structures as well as the two existing stormwater management structures immediately downstream of the proposed development in every direction that will receive runoff. Must include the size, type, slope and invert elevation of the structures.

(I) Culvert, stormwater sewer, ditch and/or other stormwater conveyance capacities;

(J) Flow velocities;

(K) Data on the increase in rate and volume of runoff for the design storms referenced in the approved stormwater design and BMP manuals; ~~and~~

(L) Documentation of sources for all computation methods and field test results;:-

~~(M) — Results from the Tennessee Runoff Reduction Assessment Tool (TNRAT) or Metro Nashville's Stormwater Management Manual Volume 5, Low Impact Development Design.~~

~~(M) Calculations showing compliance with the WQTV table as provided within Section 18-305.4.ed for minimum requirements for treatment volumes and treatment types.~~

(vi) Soils information. If a stormwater management control measure depends on the hydrologic properties of soils (e.g., infiltration basins), then a soils report/infiltration testing shall be submitted. The soils report shall be based on on-site boring logs or soil pit profiles and soil survey reports. The number and location of required soil borings or soil pits shall be determined based on what is needed to determine the suitability and distribution of soil types present at the location of the control measure and the bedrock elevation.

~~(vii) — Eighty percent (80%) TSS removal information. If eighty percent (80%) TSS removal BMPs are included in the plan, then it must also include:~~

~~(A) — A narrative description of all runoff reduction limitations that exist at the development or redevelopment;~~

~~(B) — A map drawn to scale showing the location and boundaries of such limitations;~~

~~(C) — Calculations showing the volume of runoff managed by runoff reduction stormwater control practices and the volume of runoff managed by eighty percent (80%) TSS removal BMPs; and,~~

~~(D) — Calculations showing compliance with the eighty percent (80%) TSS removal performance standard.~~

(vii) Maintenance and repair plan required. The design and planning of all permanent stormwater management facilities shall include detailed maintenance and repair procedures to ensure their continued performance. These plans will identify the parts or components of a stormwater management facility that need to be maintained and the equipment and skills or training necessary. Provisions for the periodic review and evaluation of the effectiveness of the maintenance program and the need for revisions or additional maintenance procedures shall be included in the plan.

18-306. Water quality riparian bBuffer zones.

(1) Applicability. The goal of the water quality riparian buffer is to preserve undisturbed vegetation that is native to the streamside habitat in the area of the project. The water quality riparian buffer zone is required to protect waters of the state located within or immediately adjacent to the boundaries of the project, as identified using methodology from standard operating procedures for hydrologic determinations (see rules to implement a certification program for qualified hydrologic professionals, Tennessee Rules chapter 0400-40-17). Buffer zones are not primary sediment control measures and should not be relied on as such. Rehabilitation and enhancement of a natural buffer zone is allowed, if necessary, for improvement of its effectiveness of protection of the waters of the state. Vegetated, preferably native, water quality buffers protect water bodies by providing structural integrity and canopy cover, as well as stormwater infiltration, filtration and evapotranspiration. ~~Buffer width depends on the size of a drainage area. Streams or other waters with drainage areas less than onesquare mile will require buffer widths of thirty feet (30') minimum. Streams or other waters with drainage areas greater than one (1) square mile will require buffer widths of sixty feet (60') minimum. The sixty feet (60') criterion for the width of the buffer zone can be established on an average width basis at a project, as long as the minimum width of the buffer zone is more than thirty feet (30') at any measured location. The MS4 must develop and apply criteria for determining the circumstances under which these averages will be available. A determination that standards cannot be met may not be based solely on the difficulty or cost associated with implementation. Every attempt should be made for development and redevelopment activities not to take place within the buffer zone. If water quality buffer widths as defined above cannot be fully accomplished on-site, the MS4 must develop and apply criteria for determining the circumstances under which alternative buffer widths will be available. A determination that water quality buffer widths cannot be met on site may not be based solely on the difficulty or cost of implementing measures, but must include multiple criteria, such as: type of project, existing land use and physical conditions that preclude use of these practices.~~

Buffer zone requirements:

(1a) "Construction" or "temporary" applies to all streams adjacent to construction sites that require a land disturbance permit, with an exception for discharges to Waterbodies with Unavailable Parameters or Exceptional Tennessee waters, as designated by the Tennessee

Department of Environment and Conservation. A thirty foot (30') foot natural riparian buffer zone adjacent to all streams at the construction site shall be preserved, to the maximum extent practicable, during construction activities at the site. If the streams have unavailable parameters, a sixty foot (60') natural riparian buffer zone must be preserved. The water quality buffer zone is required to protect waters of the state located within or— immediately adjacent to the boundaries of the project, as identified using methodology from standard operating procedures for hydrologic determinations (see rules to implement a certification program for qualified hydrologic professionals, Tennessee Rules chapter 0400-40-17). Buffer zones are not primary sediment control measures and should not be relied on as such. Rehabilitation and enhancement of a natural buffer zone is allowed, if necessary, for improvement of its effectiveness of protection of the waters of the state. ~~The buffer zone requirement only applies to new construction sites.~~ The riparian buffer zone should be preserved between the top of stream bank and the disturbed construction area. Buffers shall be clearly marked on site development plans, grading permit applications, and/or concept plans. Refer to the table below for construction buffer zone requirements. The thirty (30)-foot criterion for the width of the buffer zone can be established on an average width basis at a project, as long as the minimum width of the buffer zone is more than fifteen feet (15') at any measured location. Buffer zone requirements for discharges to Waterbodies with Unavailable Parameters or Exceptional Tennessee Waters: A sixty foot (60') natural riparian buffer zone adjacent to the receiving stream designated as impaired or high quality waters shall be preserved, to the maximum extent practicable, during construction activities at the site. The water quality buffer zone is required to protect waters of the state (e.g., perennial and intermittent streams, rivers, lakes, wetlands) located within or immediately adjacent to the boundaries of the project, as identified on a 7.5-minute USGS quadrangle map, or as determined by the director. Buffer zones are not sediment control measures and should not be relied upon as primary sediment control measures. Rehabilitation and enhancement of a natural buffer zone is allowed, if necessary, for improvement of its effectiveness of protection of the waters of the state. The buffer zone requirement only applies to new construction sites. The riparian buffer zone should be established between the top of stream bank and the disturbed construction area. The sixty feet (60') criterion for the width of the buffer zone can be established on an average width basis at a project, as long as the minimum width of the buffer zone is more than twenty-five (25') at any measured location.

<u>Construction Water Quality Buffer Requirements for Sites That Do Not Require a CGP</u>		
<u>Receiving Feature</u>	<u>Buffer width (ft)</u>	<u>Notes*</u>
<u>Waters of the State</u>	<u>15</u>	<u>Only applicable for sites requiring a land disturbance permit that do not require a CGP.</u> <u>City approved buffer enhancement plan required for temporary buffer encroachment.</u>

<u>Construction Water Quality Buffer Requirements for Sites That Require CGP Coverage</u>			
<u>Receiving Feature</u>	<u>Average buffer width (feet)</u>	<u>Minimum buffer width (feet)</u>	<u>Notes*</u>
<u>Waters with available parameters for siltation or unassessed waters</u>	<u>30</u>	<u>15</u>	<u>The criteria for the width of the buffer zone can be established on an average width basis at a project, as long as the minimum width of buffer zone is more than the required minimum width at any measured location. If the new development or redevelopment site encompasses both sides of a stream, buffer averaging can be applied to both sides, but must be applied independently.</u> <u>City approved buffer enhancement plan required for temporary buffer encroachment.</u>
<u>Exceptional Tennessee Waters or waters with unavailable parameters for siltation</u>	<u>60</u>	<u>30</u>	
<u>*The Administrator may approve variances from the water quality buffer requirements set forth in this chapter.</u>			

(2b) "Permanent" new development and significant redevelopment sites are required to preserve water quality buffers along waters within the MS4. Buffers shall be clearly marked on site development plans, grading permit applications, and/or concept plans. Refer to the table below for permanent buffer zone requirements. ~~Buffer width depends on the size of a drainage area. Streams or other waters with drainage areas less than one (1) square mile will require buffer widths of thirty feet (30') minimum. Streams or other waters with drainage areas greater than 1 square mile will require buffer widths of sixty feet (60') minimum. The sixty feet (60') criterion for the width of the buffer zone can be established on an average width basis at a project, as long as the minimum width of the buffer zone is more than thirty feet (30') at any measured location.~~ (Ord. #04-651, Jan. 2005, as replaced by Ord. #15-830, Feb. 2015)

<u>Permanent Water Quality Buffer Requirements for Sites That Do Not Require a CGP</u>		
<u>Receiving Feature</u>	<u>Buffer width (ft)</u>	<u>Notes*</u>
<u>Waters of the State</u>	<u>15</u>	<u>Only applicable for sites requiring a land disturbance permit that do not require a CGP.</u> <u>City approved buffer enhancement plan required for temporary buffer encroachment.</u>

<u>Permanent Water Quality Buffer Requirements for Sites That Require CGP Coverage</u>			
<u>Receiving Feature</u>	<u>Average buffer width (feet)</u>	<u>Minimum buffer width (feet)</u>	<u>Notes*</u>
<u>Waters with available parameters for siltation or habitat alteration or unassessed waters</u>	<u>30</u>	<u>15</u>	<u>The criteria for the width of the buffer zone can be established on an average width basis at a project, as long as the minimum width of buffer zone is more than the required minimum width at any measured location. If the new development or redevelopment site encompasses both sides of a stream, buffer averaging can be applied to both sides, but must be applied independently.</u> <u>City approved buffer enhancement plan required for temporary buffer encroachment.</u>
<u>Exceptional Tennessee Waters or waters with unavailable parameters for siltation or habitat alteration</u>	<u>60</u>	<u>30</u>	
<u>*The Administrator may approve variances from the water quality buffer requirements set forth in this chapter.</u>			

(2) Permissible land uses. The water quality riparian buffer is to remain undisturbed for the minimum required buffer. The following land uses are permissible within the remaining buffer subject to approval by the Administrator:

(a) Greenways, biking trails, and walking trails;

(b) Infiltration-based SCMs such as infiltration trenches and biofiltration basins may be allowed on a case-by-case basis if approved in writing by the City Engineer. This can only be approved if such SCMs improve the biodiversity or aesthetic appearance of the buffer areas. Economics or constructability of a development cannot be used as criteria for allowing an SCM to be placed in the buffer;

(c) Road and utilities crossings. Private drives and private utility crossings may also be approved by the Administrator upon review of a complete submittal demonstrating that there is no feasible alternate route; and

(d) Selective landscaping and/or habitat improvement.

(3) Variances. An application for a variance shall be made in writing and must be filed with the Administrator within (90) days of the written decision of the Administrator. The application for a variance shall be filed by the first business day of the month to be considered by the Administrator at that month's meeting. Variances to the riparian buffer zone requirements set forth in this section may be issued for the following considerations:

(a) Application for a variance. Any property owner, or authorized agent thereof, may make application for a variance from the following decisions of the Administrator:

(i) Rejection of a grading, drainage, and/or erosion control plan;

(ii) Rejection of a land disturbance permit;

(iii) Revocation of a land disturbing exemption according to section 18-304(2).

(b) Deferral or withdrawal of an application for a variance. Any property owner, or authorized agent thereof, may petition to defer or withdraw an application for a variance. The petition to defer or withdrawal must be made in writing to the Administrator at least seventy-two (72) hours prior to the scheduled meeting of the Administrator.

(c) Decisions. A decision of the Administrator varying the application of any provision of this section or modifying a decision of the Administrator shall be by resolution of the Board, which shall specify in what manner such variations or modifications shall be made, the conditions upon which they are to be made and the reasons therefor. The Board shall, in every case, render a decision without unreasonable or unnecessary delay. Every decision of the Board shall be final, subject however, to such remedy as any aggrieved party or the city may have at law or in equity.

(i) Variances may be issued for the repair or rehabilitation of historic structures as defined, herein, upon a determination that the proposed repair or rehabilitation will not preclude the structure's continued designation as a historic structure and the variance is the minimum necessary deviation from the requirements of this Ordinance to preserve the historic character and design of the structure.

(d) Standards for granting variances. In granting a variance, the Board shall ascertain that all the following conditions are met:

(i) That good and sufficient cause has been provided;

(ii) That granting the variance will not increase a threat to public health, safety, or general welfare;

(iii) That granting the variance will not be contrary to the public interest;

(iv) That granting the variance will not result in public expense;

(v) That granting the variance will not knowingly conflict with other existing laws or ordinances;

(vi) That failure to grant the variance would result in unnecessary hardship; and

(vii) That by granting the variance, the spirit of this chapter will be observed.

(e) Records. All decisions of the Board shall be in writing and shall indicate the vote of each member of the Board upon the decision. Every decision shall be promptly entered into the minutes of the meeting of the Board and filed with the Administrator. The records of the Board shall be open to public inspection and a certified copy of each decision shall be sent by mail or otherwise to the appellant.

In granting a variance, the board shall determine, and only grant, the minimum variance necessary to afford relief.

18-307. Permanent stormwater management: operation, maintenance, and inspection.

(1) Requirements. Prior to project completion and surety release, the following must be submitted and accepted by the city:

(a) As built plans. All permittees are required to submit ~~actual~~-as built plans for any structures located on-site as well as the recorded inspection and maintenance agreement and associated plans filed (original returned to the assigned division) [within 90](#)

days after final construction is completed. The plan must show the final design specifications for all stormwater management facilities and must be sealed by a registered professional engineer licensed to practice in Tennessee. An engineer's certification letter must be provided with the as-built drawings certifying that the as-built conditions conform to the approved design plans and specifications. Any variations from the approved design plans and specifications must be explained in the letter. Inspections shall be performed during installation of all ~~permanent BMPs~~ SCMs by the city inspector. A final inspection by the city is required before any portion of a performance, surety, security or bond will be released. Permittees shall provide at least seven (7) days notice to the City when requesting a final inspection. The city shall have the discretion to adopt provisions for a partial pro-rata release of the performance security or performance bond on the completion of various stages of development. In addition, occupation permits shall not be granted until corrections to all ~~BMPs~~ SCMs have been made and accepted by the city. At a minimum, as-built plans must include the invert elevation, top of casting elevation, slope, location, and material of all pipes, drainage inlets/outlets, junctions, etc. Size and material of all outlet dissipation pads, ditch size, slope, and materials. Top of berm elevations on all drainage facilities, volume of all detention/retention facilities and location and description of all ~~permanent stormwater BMP~~ SCMs.

(2) Landscaping and stabilization requirements. (a) Any area of land from which the natural vegetative cover has been either partially or wholly cleared by development activities shall stabilize. Stabilization measures shall be initiated as soon as possible in portions of the site where construction activities have temporarily or permanently ceased. Temporary or permanent soil stabilization at the construction site (or a phase of the project) must be completed no later than ~~fifteen~~ fourteen (154) days after the construction activity in that portion of the site has temporarily or permanently ceased. In the following situations, temporary stabilization measures are not required:

(a) Where the initiation of stabilization measures is precluded by snow cover or frozen ground conditions or adverse soggy ground conditions, stabilization measures shall be initiated as soon as practicable; or

(b) Where construction activity on a portion of the site is temporarily ceased, and earth disturbing activities will be resumed within ~~fifteen~~ fourteen (154) days.

(c) Permanent stabilization with perennial vegetation (using native herbaceous and woody plants where practicable) or other permanently stable, non-eroding surface shall replace any temporary measures as soon as practicable. Unpacked gravel containing fines (silt and clay sized particles) or crusher runs will not be considered a non-eroding surface.

(d) The following criteria shall apply to re-vegetation efforts:

(i) Reseeding must be done with an annual or perennial cover crop accompanied by placement of straw mulch or its equivalent of sufficient coverage

to control erosion until such time as the cover crop is established over ninety percent (90%) of the seeded area.

(ii) Replanting with native woody and herbaceous vegetation must be accompanied by placement of straw mulch or its equivalent of sufficient coverage to control erosion until the plantings are established and are capable of controlling erosion.

(iii) Any area of revegetation must exhibit survival of a minimum of ~~seventy-five~~90 percent (~~75%~~) of the cover crop throughout the year immediately following revegetation. Revegetation must be repeated in successive years until the minimum ~~seventy-five~~90 percent (~~75%~~) survival for one (1) year is achieved.

(iv) In addition to the above requirements, a landscaping plan must be submitted with the final design describing the vegetative stabilization and management techniques to be used at a site after construction is completed. This plan will explain not only how the site will be permanently stabilized after construction, but who will be responsible for the maintenance of vegetation at the site and what practices will be employed to ensure that adequate vegetative cover is preserved.

(3) Inspection of stormwater management facilities. Periodic inspections of facilities shall be performed, documented, and reported in accordance with this chapter, as detailed in §16-506.

(4) Records of installation and maintenance activities. Parties responsible for the operation and maintenance of a stormwater management facility shall make records of the installation of the stormwater facility, and of all maintenance and repairs to the facility, and shall retain the records for at least three (3) years. These records shall be made available to the city during inspection of the facility and at other reasonable times upon request.

(5) Failure to meet or maintain design or maintenance standards. If a responsible party fails or refuses to meet the design or maintenance standards required for stormwater facilities under this chapter, the city, after reasonable notice, may correct a violation of the design standards or maintenance needs by performing all necessary work to place the facility in proper working condition. In the event that the stormwater management facility becomes a danger to public safety or public health, the city shall notify in writing the party responsible for maintenance of the stormwater management facility. Upon receipt of that notice, the responsible person shall have thirty (30) days to effect maintenance and repair of the facility in an approved manner. In the event that corrective action is not undertaken within that time, the city may take necessary corrective action. The cost of any action by the city under this section shall be charged to the responsible party and/or a lien placed on the property by the city. (~~Ord. #04-651, Jan. 2005, as replaced by Ord. #15-830, Feb. 2015, and Ord. #16-877, Oct. 2016~~)

18-308. Existing locations and ongoing developments.

(1) On-site stormwater management facilities maintenance agreement.

(a) ____ Where the stormwater facility is located on property that is subject to a development agreement, and the development agreement provides for a permanent stormwater maintenance agreement that runs with the land, the owners of property must execute an inspection and maintenance agreement that shall operate as a deed restriction binding on the current property owners and all subsequent property owners and their lessees and assigns, including but not limited to, homeowner associations or other groups or entities.

(b) The maintenance agreement shall:

(i) Assign responsibility for the maintenance and repair of the stormwater facility to the owners of the property upon which the facility is located and be recorded as such on the plat for the property by appropriate notation. The OWNER(S) covenant and agree with the CITY that they shall provide for adequate long-term maintenance and continuation of stormwater control measures to ensure that all of the storm-water facilities are and remain in proper working condition in accordance with approved design standards, rules and regulations, and applicable laws. The OWNER(S) shall perform preventive maintenance activities at intervals described in the post construction long-term water quality plan.

The OWNER(S) shall submit to the CITY an annual report by July 1st of each year. The report shall include the long-term maintenance plan that documents inspection schedules, time of inspections, remedial actions taken to repair, modify or re-construct the system and the state of control measures.

(ii) Provide for a periodic inspection by the property owners in accordance with the requirements of subsection (v) below for the purpose of documenting maintenance and repair needs and to ensure compliance with the requirements of this chapter. The property owners will arrange for this inspection to be conducted by a registered professional engineer licensed to practice in the State of Tennessee, who will submit a signed written report of the inspection to the administrator. This report shall be completed, at a minimum, once within a five (5) year period, or as required by the city, or the Tennessee Department of Environment and Conservation, and submitted to the city's stormwater manager. It shall also grant permission to the city to enter the property at reasonable times and to inspect the stormwater facility to ensure that it is being properly maintained.

(iii) Provide that the minimum maintenance and repair needs include, but are not limited to: the removal of silt, litter and other debris, the cutting of grass, cutting and vegetation removal, and the replacement of landscape vegetation, in detention and retention basins, and inlets and drainage pipes and any other stormwater facilities. It shall also provide that the property owners shall

be responsible for additional maintenance and repair needs consistent with the needs and standards outlined in the MS4 BMP-SCM manual.

(iv) Provide that maintenance needs must be addressed in a timely manner, on a schedule to be determined by the administrator.

(v) Provide that if the property is not maintained or repaired within the prescribed schedule, the administrator shall perform the maintenance and repair at its expense, and bill the same to the property owner. The maintenance agreement shall also provide that the administrator's cost of performing the maintenance shall be a lien against the property.

(2) Existing problem locations - no maintenance agreement. (a) The administrator shall in writing notify the owners of existing locations and developments of specific drainage, erosion or sediment problems affecting or caused by such locations and developments, and the specific actions required to correct those problems. The notice shall also specify a reasonable time for compliance. Discharges from existing BMPs-SCMs that have not been maintained and/or inspected in accordance with this ordinance shall be regarded as illicit.

(b) Inspection of existing facilities. The city may, to the extent authorized by state and federal law, enter and inspect private property for the purpose of determining if there are illicit non-stormwater discharges, and to establish inspection programs to verify that all stormwater management facilities are functioning within design limits. These inspection programs may be established on any reasonable basis, including but not limited to: routine inspections; random inspections; inspections based upon complaints or other notice of possible violations; inspection of drainage basins or areas identified as higher than typical sources of sediment or other contaminants or pollutants; inspections of businesses or industries of a type associated with higher than usual discharges of contaminants or pollutants or with discharges of a type which are more likely than the typical discharge to cause violations of the city's NPDES stormwater permit; and joint inspections with other agencies inspecting under environmental or safety laws. Inspections may include, but are not limited to: reviewing maintenance and repair records; sampling discharges, surface water, groundwater, and material or water in drainage control facilities; and evaluating the condition of drainage control facilities and other BMPsSCMs.

(3) Owner/operator inspections. The owners and/or the operators of stormwater management practices shall:

(a) Perform routine inspections to ensure the SCMBMPs are properly functioning. These inspections shall be conducted on an annual basis, at a minimum. These inspections shall be conducted by a person familiar with control measures implemented at a site. Owners or operators shall maintain documentation of these inspections. The administrator may require submittal of this documentation.

(b) Perform comprehensive inspection of all stormwater management facilities and practices. These inspections shall be conducted once every five (5) years, at a minimum. Such inspections must be conducted by either a professional engineer or landscape architect, licensed in the State of Tennessee. Complete inspection reports for these five (5) year inspections shall include:

- (i) Facility type,
- (ii) Inspection date,
- (iii) Latitude and longitude and nearest street address,
- (iv) BMP-SCM owner information (e.g. name, address, phone number, fax, and email),
- (v) A description of current BMP-SCM conditions including, but not limited to: green infrastructure practices, grassy areas, forested areas, buffer areas, growing vegetation and soil properties; inlet and outlet channels and structures; embankments, slopes, and safety benches; spillways, weirs, and other control structures; and any sediment and debris accumulation,
- (vi) Photographic documentation of BMPsSCMs, and
- (vii) Specific maintenance items or violations that need to be corrected by the BMP-SCM owner along with deadlines and reinspection dates.

(c) Owners or operators shall maintain documentation of these inspections. The administrator may require submittal of this documentation.

(4) Requirements for all existing locations and ongoing developments. The following requirements shall apply to all locations and development at which land disturbing activities have occurred previous to the enactment of this ordinance:

- (a) Denuded areas must be vegetated or covered under the standards and guidelines specified in § 18-307(2) and on a schedule acceptable to the administrator.
- (b) Cuts and slopes must be properly covered with appropriate vegetation and/or retaining walls constructed.
- (c) Drainage ways shall be properly covered in vegetation or secured with rip-rap, channel lining, etc., to prevent erosion. ~~ways.~~
- (d) Trash, junk, rubbish, etc. shall be cleared from drainage
- (e) Stormwater runoff shall, at the discretion of the administrator be controlled to the maximum extent practicable to prevent its pollution. Such control measures may include, but are not limited to, the following:

- (i) Ponds

- (A) Detention pond
 - (B) Extended detention pond
 - (C) Wet pond
 - (D) Alternative storage measures
 - (E) Bioretention pond
- (ii) Constructed wetlands
- (iii) Infiltration systems
 - (A) Infiltration/percolation trench
 - (B) Infiltration basin
 - (C) Drainage (recharge) well
 - (D) Porous pavement
- (iv) Filtering systems
 - (A) Catch basin inserts/media filter
 - (B) Sand filter
 - (C) Filter/absorption bed
 - (D) Filter and buffer strips
- (v) Open channel
 - (A) Swale

(5) Corrections of problems subject to appeal. Corrective measures imposed by the administrator under this section are subject to appeal under § 18-312 of this chapter.

18-309. Illicit discharges.

(1) Scope. This section shall apply to all water generated on developed or undeveloped land entering the city's separate storm sewer system.

(2) Prohibition of illicit discharges. No person shall introduce or cause to be introduced into the municipal separate storm sewer system any discharge that is not composed entirely of stormwater or any discharge that flows from stormwater facility that is not inspected in accordance with § 16-506 shall be an illicit discharge. Non-stormwater discharges shall include, but shall not be limited to, sanitary wastewater, commercial car wash wastewater, lawn mowing debris, lawn care chemicals, grease, soap, cleaning chemicals, radiator flushing disposal, spills from vehicle accidents, carpet cleaning wastewater, effluent from septic tanks,

improper oil disposal, laundry wastewater/gray water, improper disposal of auto and household toxics. The commencement, conduct or continuance of any non-stormwater discharge to the municipal separate storm sewer system is prohibited except as described as follows:

(a) Uncontaminated discharges – performed in a non-erosive manner – from the following sources:

- (i) Water line flushing or other potable water sources;
- (ii) Landscape irrigation or lawn watering with potable water;
- (iii) Diverted stream flows;
- (iv) Rising ground water;

(v) Uncontaminated Ggroundwater infiltration ~~to storm drains~~(infiltration is defined as water other than wastewater that enters a sewer system, including sewer service connections and foundation drains, from the ground through such means as defective pipes, pipe joints, connections, or manholes. Infiltration does not include, and is not distinguished from, inflow);

(vi) Uncontaminated Ppumped groundwater;

(vii) Foundation or footing drains;

(viii) Crawl space pumps;

(ix) Air conditioning ~~e~~ondensationcondensate;

(x) Springs;

(xi) ~~Non-commercial~~Individual residential car washing ~~of vehicles~~;

(xii) Natural riparian habitat or wetland flows;

(xiii) Saltwater and chlorinated swimming pools (if de-salinated and dechlorinated - typically less than one (1) PPM chlorine~~;~~);

(xiv) Firefighting activities;

(xv) Street wash water;

(xvi) Any other uncontaminated water source.

(b) Discharges specified in writing by the city as being necessary to protect public health and safety.

(c) Dye testing is an allowable discharge if the city has so specified in writing.

(d) Discharges authorized by ~~the section 1.2.3. of the~~ Construction General Permit (CGP), which comply with section ~~3.5.94.1.3.~~ 1.3. of the same:

(i) Dewatering of work areas of collected stormwater and ground water (filtering or chemical treatment may be necessary prior to discharge);

(ii) Waters used to wash dust and soils from vehicles ~~(of dust and soil, not process materials such as oils, asphalt or concrete)~~ where detergents are not used and detention and/or filtering is provided before the water leaves site. Wash removal of process materials such as oil, asphalt or concrete is not authorized;

(iii) Water used to control dust in accordance with CGP section 3.5.55.5.3.7.;

(iv) Potable water sources, including waterline flushings, from which chlorine has been removed to the maximum extent practicable;

(v) Routine external building washdown that does not use detergents or other chemicals;

(vi) Uncontaminated, non-turbid groundwater or spring water; ~~and~~

(vii) Foundation or footing drains where flows are not contaminated with pollutants (e.g. lubricants and fluids from mechanized equipment, process materials such as solvents, heavy metals, etc.).

(viii) Discharges from emergency fire-fighting activities;

(ix) Fire hydrant flushings;

(x) Landscape irrigation;

(xi) Pavement wash waters, provided spills or leaks of toxic or hazardous substances have not occurred (unless all spill material has been removed) and where soaps, solvents, and detergents are not used; and

(xii) Uncontaminated air conditioning or compressor condensate.

(3) Prohibition of illicit connections. The construction, use, maintenance or continued existence of illicit connections to the municipal separate storm sewer system is prohibited. This prohibition expressly includes, without limitation, illicit connections made in the past, regardless of whether the connection was permissible under law or practices applicable or prevailing at the time of connection.

(4) Reduction of stormwater pollutants by the use of best management practices. Any person responsible for a property or premises, which is, or may be, the source of an illicit discharge, may be required to implement, at the person's expense, the BMPs or SCMs necessary to prevent the further discharge of pollutants to the municipal separate storm sewer system. Compliance with all terms and conditions of a valid NPDES permit authorizing the discharge of stormwater associated with industrial activity, to the extent practicable, shall be deemed in compliance with the provisions of this section. Discharges from existing BMPs-SCMs that have

not been maintained and/or inspected in accordance with this ordinance shall be regarded as illicit.

(5) Notification of spills. Notwithstanding other requirements of law, as soon as any person responsible for a facility or operation, or responsible for emergency response for a facility or operation has information of any known or suspected release of materials which are resulting in, or may result in, illicit discharges or pollutants discharging into, the municipal separate storm sewer system, the person shall take all necessary steps to ensure the discovery, containment, and cleanup of such release. In the event of such a release of hazardous materials the person shall immediately notify emergency response agencies of the occurrence via emergency dispatch services. In the event of a release of non-hazardous materials, the person shall notify the city in person or by telephone, fax, or email, no later than the next business day. Notifications in person or by telephone shall be confirmed by written notice addressed and mailed to the city within three (3) business days of the telephone notice. If the discharge of prohibited materials emanates from a commercial or industrial establishment, the owner or operator of such establishment shall also retain an on-site written record of the discharge and the actions taken to prevent its recurrence. Such records shall be retained for at least three (3) years.

(6) No illegal dumping allowed. No person shall dump or otherwise deposit outside an authorized landfill, convenience center or other authorized garbage or trash collection point, any trash or garbage of any kind or description on any private or public property, occupied or unoccupied, inside the city.

(7) ~~Hot-spots~~Priority areas. The administrator is authorized to regulate ~~hot spots~~priority areas. Upon written notification by the administrator, the property owner or designated facility manager of a ~~hot-spot~~priority area shall, at their expense, implement necessary controls and/or best management practices to prevent discharge of contaminated stormwater to the municipal separate storm sewer system. The administrator may require the facility to maintain inspection logs or other records to document compliance with this paragraph.

18-310. Enforcement.

(1) Enforcement authority. The administrator shall have the authority to issue notices of violation and citations, and to impose the civil penalties provided in this section guided by the Enforcement Response Plan (ERP). Measures authorized include:

(a) Verbal warnings. At a minimum, verbal warnings must specify the nature of the violation and required corrective action.

(b) Written notices. Written notices must stipulate the nature of the violation and the required corrective action, with deadlines for taking such action.

(c) Citations with administrative penalties. The MS4 has the authority to assess monetary penalties, which may include civil and administrative penalties.

(d) Stop work orders. Stop work orders that require construction activities to be halted, except for those activities directed at cleaning up, abating discharge, and installing appropriate control measures.

(e) Withholding of plan approvals or other authorizations. Where a facility is in noncompliance, the MS4's own approval process affecting the facility's ability to discharge to the MS4 can be used to abate the violation.

(f) 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 materials.

(2) ___ Notification of violation. (a) Verbal warning. Verbal warning may be given at the discretion of the inspector when it appears the condition can be corrected by the violator within a reasonable time, which time shall be approved by the inspector.

(b) Written notice. Whenever the administrator finds that any permittee or any other person discharging stormwater has violated or is violating this ordinance or a permit or order issued hereunder, the administrator may serve upon such person written notice of the violation. Within ten (10) days of this notice, an explanation of the violation and a plan for the satisfactory correction and prevention thereof, to include specific required actions, shall be submitted to the administrator. Submission of this plan in no way relieves the discharger of liability for any violations occurring before or after receipt of the notice of violation.

(c) Consent orders. The administrator is empowered to enter into consent orders, assurances of voluntary compliance, or other similar documents establishing an agreement with the person responsible for the noncompliance. Such orders will include specific action to be taken by the person to correct the noncompliance within a time period also specified by the order. Consent orders shall have the same force and effect as administrative orders issued pursuant to paragraphs (d) and (e) below.

(d) Show cause hearing. The administrator may order any person who violates this chapter or permit or order issued hereunder, to show cause why a proposed enforcement action should not be taken. Notice shall be served on the person specifying the time and place for the meeting, the proposed enforcement action and the reasons for such action, and a request that the violator show cause why this proposed enforcement action should not be taken. The notice of the meeting shall be served personally or by registered or certified mail (return receipt requested) at least ten (10) days prior to the hearing.

(e) Compliance order. When the administrator finds that any person has violated or continues to violate this chapter or a permit or order issued thereunder, he may issue an order to the violator directing that, following a specific time period,

adequate structures or devices be installed and/or procedures implemented and properly operated. Orders may also contain such other requirements as might be reasonably necessary and appropriate to address the noncompliance, including the construction of appropriate structures, installation of devices, self-monitoring, and management practices.

(f) Cease and desist and stop work orders. When the administrator finds that any person has violated or continues to violate this chapter or any permit or order issued hereunder, the administrator may issue a stop work order or an order to cease and desist all such violations and direct those persons in noncompliance to:

(i) Comply forthwith; or

(ii) Take such appropriate remedial or preventive action as may be needed to properly address a continuing or threatened violation; including halting operations except for terminating the discharge and installing appropriate control measures.

(g) Suspension, revocation or modification of permit. The administrator may suspend, revoke or modify the permit authorizing the land development project or any other project of the applicant or other responsible person within the city. A suspended, revoked or modified permit may be reinstated after the applicant or other responsible person has taken the remedial measures set forth in the notice of violation or has otherwise cured the violations described therein, provided such permit may be reinstated upon such conditions as the administrator may deem necessary to enable the applicant or other responsible person to take the necessary remedial measures to cure such violations.

(h) Conflicting standards. Whenever there is a conflict between any standard contained in this chapter and in the BMP manual(s) adopted by the city under this ordinance, the strictest standard shall prevail. ~~(Ord. #04-651, Jan. 2005, as replaced by Ord. #15-830, Feb. 2015)~~

18-311. Penalties.

(1) Violations. Any person who shall commit any act declared unlawful under this chapter, who violates any provision of this chapter, who violates the provisions of any permit issued pursuant to this chapter, or who fails or refuses to comply with any lawful communication or notice to abate or take corrective action by the administrator, shall be guilty of a civil offense.

(2) Penalties. Under the authority provided in Tennessee Code Annotated, § 68-221-1106, the city declares that any person violating the provisions of this chapter may be assessed a civil penalty by the administrator of not less than fifty dollars (\$50.00) and not more than five thousand dollars (\$5,000.00) per day for each day of violation. Each day of violation shall constitute a separate violation.

(3) Measuring civil penalties. In assessing a civil penalty, the administrator may consider:

- (a) The harm done to the public health or the environment;
 - (b) Whether the civil penalty imposed will be a substantial economic deterrent to the illegal activity;
 - (c) The economic benefit gained by the violator;
 - (d) The amount of effort put forth by the violator to remedy this violation;
 - (e) Any unusual or extraordinary enforcement costs incurred by the city;
 - (f) The amount of penalty established by ordinance or resolution for specific categories of violations; and
 - (g) Any equities of the situation which outweigh the benefit of imposing any penalty or damage assessment.
- (4) Recovery of damages and costs. In addition to the civil penalty in subsection (2) above, the city may recover:
- (a) All damages proximately caused by the violator to the city, which may include any reasonable expenses incurred in investigating violations of, and enforcing compliance with, this chapter, or any other actual damages caused by the violation.
 - (b) The costs of the city's maintenance of stormwater facilities when the user of such facilities fails to maintain them as required by this chapter.
- (5) Referral to TDEC. Where the city has used progressive enforcement to achieve compliance with this ordinance, and in the judgment of the city has not been successful, the city may refer the violation to TDEC. For the purposes of this provision, "progressive enforcement" shall mean two (2) follow-up inspections and/or two (2) warning notifications. In addition, enforcement referrals to TDEC must include, at a minimum, the following information:
- (a) Construction project or industrial facility location;
 - (b) Name of owner or operator;
 - (c) Estimated construction project or size or type of industrial activity (including SIC code, if known);
 - (d) Records of communications with the owner or operator regarding the violation, including at least two follow-up inspections, two (2) warning letters or notices of violation, and any response from the owner or operator.
- (6) Other remedies. The city may bring legal action to enjoin the continuing violation of this chapter, and the existence of any other remedy, at law or equity, shall be no defense to any such actions.
- (7) Remedies cumulative. The remedies set forth in this section shall be cumulative, not exclusive, and it shall not be a defense to any action, civil or criminal, that one (1) or more of

the remedies set forth herein has been sought or granted. (~~Ord. #04-651, Jan. 2005, as amended by Ord. #10-738, April 2010, and replaced by Ord. #15-830, Feb. 2015~~)

18-312. Appeals. Pursuant to Tennessee Code Annotated, § 68-221-1106(d):

(1) Appeals to be in writing. Any person aggrieved by the imposition of a civil penalty or damage assessment as provided by this article may appeal said penalty or damage assessment. Upon issuance of a citation or notice of violation of this article it shall be conclusive and final unless the accused violator submits a written notice of appeal to the Administrator within ten (10) days of the violation notice being served. If the Administrator does not issue a decision within ten (10) days of the written notice of appeal, then the violation is considered upheld. If the Administrator does not reverse the decision, the aggrieved party may appeal to the City of Goodlettsville hearing authority or successor, by filing a written request for hearing within ten (10) days of the Administrator decision on the appeal. The request for hearing shall state the specific reasons why the decision of the Administrator is alleged to be in error.

(2) Public hearing. Upon receipt of an appeal, the city's governing body, or other appeals board established by the city's governing body shall hold a public hearing within forty-five (45) days. A minimum of ten (10) days prior notice of the time, date, and location of said hearing shall be published in a daily newspaper of general circulation and/or on the city's website. The notice shall also be provided to the aggrieved party by registered mail and sent to the address provided by the aggrieved party at the time of appeal. The decision of the governing body of the city shall be final.

(3) Appealing decisions of the city's governing body. Any alleged violator may appeal a decision of the city's governing body pursuant to the provisions of Tennessee Code Annotated, title 27, chapter 8. (~~Ord. #04-651, Jan. 2005, as replaced by Ord. #15-830, Feb. 2015~~)

18-313. Maintenance.

(1) Maintenance responsibility:

(a) Any stormwater management facility or BMP-SCM which services individual property owners or subdivisions shall be privately owned with general routine maintenance (controlling vegetative growth and removing debris) provided for by the owner(s). The city has the right, but not the duty, to enter premises for emergency activity that is immediately necessary for the protection of life, property, or natural resources.

(b) Any stormwater management facility or ~~BMP-SCM~~ which services an individual subdivision in which the facility or ~~BMP-SCM~~ is within designated open areas or an amenity with an established homeowners association, or inspection and maintenance agreement, shall be privately owned and maintained consistent with provisions of this ordinance. The city has the right, but not the duty, to enter premises for

emergency activity that is immediately necessary for the protection of life, property, or natural resources.

(c) Any stormwater management facility or BMP-SCM which services commercial and industrial development shall be privately owned and maintained consistent with the provisions of this title. The city has the right, but not the duty, to enter premises for emergency activity that is immediately necessary for the protection of life, property, or natural resources.

(d) All regional stormwater management facilities proposed by the owners, if accepted by the city and approved by the board of commissioners for dedication as a public regional facility shall be publicly owned and maintained.

(e) All other stormwater management control facilities and BMP's-SCMs shall be publicly owned and/or maintained only if accepted for maintenance by the city through a formal agreement recorded at the Davidson/Sumner County, Tennessee Register of Deeds. Existing or proposed drainage easements shall not constitute a formal agreement.

(f) The city may require dedication of privately owned stormwater facilities, which discharge to the city's stormwater system.

(g) It shall be unlawful for any person to permit or cause the obstruction of any drainage ditch in any public right-of-way or prescribed drainage way.

Section 3. This ordinance shall take effect fifteen (15) days from and after its final passage, the public welfare requiring it.

MAYOR RUSTY TINNIN

Passed:_____

Passed:_____

CITY RECORDER

APPROVED AS TO LEGALITY AND FORM:

CITY ATTORNEY



AGENDA SUMMARY SHEET

**Board of Commissioners
City of Goodlettsville**

<u>SUBJECT TITLE:</u> Ordinance 23-1072 An ordinance to amend Title 11, Chapter 2 of the Goodlettsville Municipal Code by deleting Chapter 2 in its entirety as it relates to fortune telling. SECOND READING <u>PRESENTED BY:</u> Tim Ellis, City Manager	Agenda Item: Ordinance 23-1072 Dept. of Origin: Administration For Agenda of: September 14, 2023 Originator: Tim Ellis Cost of Item: N/A
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AGENDA ITEM ATTACHMENTS:

Ordinance 23-1072

SUMMARY STATEMENT:

An ordinance to amend Title 11, Chapter 2 of the Goodlettsville Municipal Code by deleting Chapter 2 in its entirety as it relates to fortune telling.

FINANCIAL SUMMARY:

N/A

RECOMMENDED ACTION:

Staff recommends approval of Ordinance 23-1072.

ORDINANCE 23-1072

AN ORDINANCE TO AMEND TITLE 11, CHAPTER 2 OF THE GOODLETTSVILLE MUNICIPAL CODE BY DELETING CHAPTER 2 IN ITS ENTIRETY AS IT RELATES TO FORTUNE TELLING.

WHEREAS, legal staff has recommended that a chapter of the City of Goodlettsville Municipal Code be deleted as it relates to fortune telling, and

WHEREAS, the Board of Commissioners of the City of Goodlettsville has determined it will be in the best interest of the City to delete such chapter.

NOW, THEREFORE, BE IT ORDAINED BY THE BOARD OF COMMISSIONERS OF THE CITY OF GOODLETTSVILLE, TENNESSEE, THAT TITLE 11, CHAPTER 2 OF THE MUNICIPAL CODE OF ORDINANCES IS AMENDED BY DELETING CHAPTER 2 IN ITS ENTIRETY.

THIS ORDINANCE IS EFFECTIVE FIFTEEN DAYS PAST FINAL PASSAGE, THE WELFARE OF THE CITIZENS OF GOODLETTSVILLE, TENNESSEE REQUIRING IT.

MAYOR RUSTY TINNIN

Passed First Reading: July 13, 2023

Passed Second Reading: _____

CITY RECORDER

Approved as to Legality and Form:

CITY ATTORNEY



AGENDA SUMMARY SHEET

**Board of Commissioners
City of Goodlettsville**

<u>SUBJECT TITLE:</u> RESOLUTION 23-1159 A resolution amending Resolution 23-1148, as it relates to the selling of surplus traffic signal boxes. <u>PRESENTED BY:</u> Tim Ellis, City Manager	Agenda Item: Resolution 23-1159 Dept. of Origin: Public Works For Agenda of: September 14, 2023 Originator: Jeff McCormick Cost of Item: No Cost
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AGENDA ITEM ATTACHMENTS:

Resolution 23-1159

SUMMARY STATEMENT:

A resolution amending Resolution 23-1148, as it relates to the selling of surplus traffic signal boxes.

This resolution would sell the City of Mt. Juliet four (4) pad mount TS1 Traffic Signal Cabinets at \$3,500.00 each.

FINANCIAL SUMMARY:

To be sold for \$14,000.00 to the City of Mt. Juliet, Tennessee.

RECOMMENDED ACTION:

Staff recommends approval of Resolution 23-1159.

RESOLUTION 23-1159

A RESOLUTION AMENDING RESOLUTION 23-1148, AS IT RELATES TO THE SELLING OF SURPLUS TRAFFIC SIGNAL BOXES.

WHEREAS, by virtue of the passage of Resolution 23-1148 the City of Goodlettsville Board of Commissioners authorized the sale of traffic control boxes to the City of Gallatin, Tennessee; and

WHEREAS, there was an error in Resolution 23-1148 in which the sale of the traffic control boxes was supposed to be to the City of Mt. Juliet, Tennessee; and

WHEREAS, the passage of this resolution is needed to acknowledge and correct the identified error.

NOW, THEREFORE, BE IT RESOLVED by the Board of Commissioners of the City of Goodlettsville, Tennessee that:

Section 1. The City of Goodlettsville Board of Commissioners hereby amends Resolution 23-1148 by authorizing the sale of surplus traffic control boxes to the City of Mt. Juliet, Tennessee.

Section 2. The adopted Resolution 23-1148 shall be amended to reflect this adopted amendment.

Section 3. This resolution is to take effect immediately upon passage.

Date Adopted: September 14, 2023

Mayor Rusty Tinnin

Attest:

City Recorder

Approved as to form and legality

City Attorney



AGENDA SUMMARY SHEET

**Board of Commissioners
City of Goodlettsville**

<u>SUBJECT TITLE:</u> RESOLUTION 23-1160 A resolution approving an Inter-local agreement between the City of Goodlettsville and the City of Millersville as it relates to Fire Service. <u>PRESENTED BY:</u> Tim Ellis, City Manager	Agenda Item: Resolution 23-1160 Dept. of Origin: Fire For Agenda of: September 14, 2023 Originator: Ken Reeves / Tim Ellis Cost of Item: Off Setting
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AGENDA ITEM ATTACHMENTS:

Resolution 23-1160

SUMMARY STATEMENT:

A resolution approving an Inter-local agreement between the City of Goodlettsville and the City of Millersville as it relates to Fire Service.

FINANCIAL SUMMARY:

N / A

RECOMMENDED ACTION:

Staff recommends approval of Resolution 23-1160.

RESOLUTION NO. 23-1160

A RESOLUTION AUTHORIZING THE EXECUTION OF AN INTER-LOCAL AGREEMENT BETWEEN THE CITY OF GOODLETTSVILLE AND THE CITY OF MILLERSVILLE FIRE DEPARTMENTS IN REFERENCE TO MUTAL AID.

WHEREAS, the City of Goodlettsville and the City of Millersville, Tennessee have maintained a great working relationship for many years; and,

WHEREAS, it would be advantageous for the City of Goodlettsville to expand that working relationship by entering into a new inter-local agreement;

NOW, THEREFORE, BE IT RESOLVED BY THE BOARD OF COMMISSIONERS OF THE CITY OF GOODLETTSVILLE THAT THE INTER-LOCAL AGREEMENT IDENTIFIED AS EXHIBIT I OF THIS RESOLUTION IS APPROVED AND EXECUTED.

THIS RESOLUTION IS EFFECTIVE UPON ADOPTION, THE WELFARE OF THE CITIZENS OF GOODLETTSVILLE REQUIRING IT.

Adopted: September 14, 2023

MAYOR RUSTY TINNIN

CITY RECORDER
APPROVED AS TO FORM AND LEGALITY

CITY ATTORNEY

EXHIBIT 1

INTERLOCAL MUTUAL AID
AGREEMENT
FOR FIRE AND RESCUE SERVICES

This Agreement entered as of the _____ day of _____, 2023, by and among

The City of Goodlettsville, Tennessee, and

The City of Millersville, Tennessee.

Pursuant to Tennessee Code Annotated Section 6-54-601, relative to firefighting assistance, and in consideration of the covenants contained herein, the parties agree as follows:

1. The parties will respond to calls for firefighting and rescue assistance (provided by the respective fire department) upon request for such assistance made by the appropriate fire official of the fire department of the respective city, except as otherwise provided in section 5. All requests for assistance shall be made to the appropriate 9-11 dispatch center by radio or telephone.
2. Upon request for aid received as provided for in paragraph (1), the senior fire officer of the responding party will authorize response as follows:
 - a. The maximum response of and fire department will be no more than fifty percent (50%) of the total personnel and resources of the department. Each party's response will be determined by the severity of the emergency in the requesting party's jurisdiction as determined by the senior fire officer of the requesting party.
 - b. When there also is an emergency in the jurisdiction of the responding party at the time a request is made, or one occurs in the course of responding to a request under this agreement, and the senior fire officer of the responding party reasonably determines, after a consideration of the severity of the

emergency in his jurisdiction, that the responding party cannot comply with the minimal requirements of this agreement without endangering life or incurring significant property damage in his jurisdiction, or both, he may choose to use all equipment and personnel in his jurisdiction. In this case, the senior fire officer of the responding party shall either: (a) authorize or request the dispatch of alternate resources, or (b) attempt to inform the senior fire officer of the requesting party of the decision that has been made, as soon as possible. In cases where two or more requests for mutual aid assistance have been made at the same time, thereby making compliance with the minimum requirements of this agreement impossible for the responding party, the senior fire officer for the responding party shall determine, based upon a reasonable appraisal of the emergencies of the requesting jurisdictions, how best to respond to the requests. The senior fire official may determine to send all available resources under this agreement to the jurisdiction with the most dire emergency, or he may send some resources to each requesting jurisdiction. The senior fire officer shall inform of the requesting parties of his decision. In both situations outlined in this subsection (b) where compliance with the minimal requirement is impossible, the requesting party or parties will, not expect full compliance with those minimal duties, but will expect a fair appraisal of the emergencies involved and a commensurate response.

- c. When fire department personnel are sent to another community pursuant to this agreement, the jurisdiction, authority, rights, privileges, and immunities, including coverage under the Worker's Compensation Laws, which they have in the sending department, shall be extended to and include any geographic area necessary as a result of the request to which these personnel are acting within the scope of the authority conferred by this agreement.
- 3. No compensation will be paid by the parties under this agreement for mutual aid assistance rendered.
- 4. The senior fire officer in whose community the emergency exists, and who places the request for assistance, shall in all instances be in command of the emergency as to strategy, tactics, and overall direction of operations. All orders or direction regarding

the operations of the responding party shall be relayed to the senior fire officer in command of the responding party. A modified unified command structure shall be established when both fire departments are operating at the scene of an emergency. Each respective fire department shall maintain accountability and control of their respective personnel using their own separate accountability and control systems, but fully coordinated at the command post using the unified command structure.

- a. Exhibit A and the verbal description of exhibit "A" contained herein depicts the City Limit Boundaries of the City of Goodlettsville and the City of Millersville. Additions or subtractions of said boundaries do not require new approvals of this agreement unless extenuating circumstances are present.
 - b. Employees of the Millersville Fire Department who are responding outside of the City of Millersville shall be considered Millersville Government employees. Employees of the Goodlettsville Fire Department who are responding outside of the City of Goodlettsville shall be considered Goodlettsville Government employees.
5. As a component of this agreement, mutual and shared training for the purpose of ensuring seamless and professional shared responses between Millersville and Goodlettsville are required. When space is available and the proposal is reasonable, joint training shall be made available between both parties to this agreement. A minimum of 16 hours are required annually consisting of joint response planning, table top, classroom, and full scale exercises for fire and rescue services.
 - a. Employees of the City of Goodlettsville who are attending training in the City of Millersville shall always be considered employees of the City of Goodlettsville.
 - b. Employees of the City of Millersville who are attending training in the City of Goodlettsville shall always be considered employees of the City of Millersville.
6. This agreement shall continue from year to year, unless written notice of termination is given by either party hereto at least ninety (90) days prior to July 1 of any year. No further obligations or liabilities shall be imposed upon the withdrawing party after termination. This agreement shall continue in effect with respect to all parties that have

not withdrawn. Unless the number of active parties is reduced so that only one party remains.

This agreement shall be valid only when it is executed by the Mayor and Fire Chief of the respective parties pursuant to appropriate legislation of the respective legislative bodies execute it and be countersigned by the authorized officials of the other parties.

IN WITNESS THEREOF, the parties hereto have executed this agreement as of the day and year written above.

For the City of Goodlettsville

Mayor

Fire Chief

For the City of Millersville

Mayor

Fire Chief



AGENDA SUMMARY SHEET

**Board of Commissioners
City of Goodlettsville**

<u>SUBJECT TITLE:</u> Resolution 23-1161 A resolution accepting the low bid and approving a contract with Pavement Restorations, Incorporated for Asphalt Preservation Services within the City of Goodlettsville. <u>PRESENTED BY:</u> Tim Ellis, City Manager	Agenda Item: Resolution 23-1161 Dept. of Origin: Public Works For Agenda of: September 14, 2023 Originator: Jeff McCormick Cost of Item: As Needed Basis
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AGENDA ITEM ATTACHMENTS:

- Resolution 23-1161
- Contract

SUMMARY STATEMENT:

A resolution accepting the low bid and approving a contract with Pavement Restorations, Incorporated for Asphalt Preservation Services within the City of Goodlettsville.

FINANCIAL SUMMARY:

As Needed Basis

RECOMMENDED ACTION:

Staff recommends approval of Resolution 23-1161.

Resolution 23-1161

A RESOLUTION ACCEPTING THE LOW BID AND APPROVING A CONTRACT BETWEEN THE CITY OF GOODLETTSVILLE AND PAVEMENT RESTORATION, INCORPORATED FOR THE PAVEMENT RESTORATION SERVICES AND OTHER INCIDENTAL SERVICES TO CITY STREETS.

WHEREAS, the City of Goodlettsville recently publicly advertised for sealed bids as it related to Asphalt Preservation Services and other incidental services to city streets; and

WHEREAS, sealed bids were opened and made public; and

WHEREAS, it has been determined that Pavement Restoration, Incorporated was the lowest and best bid.

NOW, THEREFORE, BE IT RESOLVED BY THE BOARD OF COMMISSION OF THE CITY OF GOODLETTSVILLE, TENNESSEE THAT A CONTRACT WITH PAVEMENT RESTORATION, INCORPORATED IS AUTHORIZED TO BE EXECUTED FOR ASPHALT PRESERVATION AND OTHER INCIDENTAL SERVICES TO CITY STREETS.

BE IT FURTHER RESOLVED THAT THE CITY MANAGER IS AUTHORIZED TO EXECUTE ANY AND ALL CONTRACTS WITH PAVEMENT RESTORATION, INCORPORATED.

THIS RESOLUTION IS EFFECTIVE UPON ADOPTION, THE WELFARE OF THE CITIZENS OF GOODLETTSVILLE REQUIRING IT.

Mayor Rusty Tinnin

September 14, 2023

Attest:

City Recorder

Approved as to form:

City Attorney

**SPECIFICATIONS AND DOCUMENTS
FOR
PAVEMENT PRESERVATION AND
IMPROVEMENTS WITHIN THE
CITY OF GOODLETTSVILLE
2023-2024**

**GOODLETTSVILLE PUBLIC WORKS DEPARTMENT
GOODLETTSVILLE, TENNESSEE**

PAVEMENT PRESERVATION BID FORM

Sealed proposals will be received until 2:00 p.m. CST, Thursday, August 10, 2023, for roadway preservation and improvements within the City of Goodlettsville.

Bidders shall place their bid in a sealed envelope along with a bid bond and proofs of insurance. The outside of the envelope must indicate the bidder's name, license number, expiration date, and that part of classification applying to the bid in accordance with TCA 62-6-119. Bids not conforming to these provisions shall not be opened. Bids are sent to Rachel Hoover, Purchasing, 105 S. Main Street, Goodlettsville, TN 37072.

The annual preservation contract, upon acceptance, is to be in effect for one (1) year beginning July 1, 2023 with the option of one -year renewals, up to five (5) consecutive years total. In compliance with the above invitation for bids and subject to all the conditions thereof, the undersigned offers, and agrees, if this is accepted by the City and approved by the Goodlettsville Board of Commission to furnish and install all items at the prices provided at a schedule determined by the City.

The City of Goodlettsville does not discriminate on the basis of age, race, sex, color, national origin, religion or disability in admission to, access to, or operation of its programs, services or activities, nor does it discriminate in its hiring or employment practices. Contact the city manager at (615) 851-2200 with questions, concerns, and complaints with requests for ADA accommodations.

Company Name: Pavement Restorations, Inc.

Company Address: 10162 Stinson Street, Milan, TN 38358

Phone Number: (615) 969-9040

License # and Expiration Date: TN GC #58445 Expiration 11/30/2024 Classifications HRA-B, MU-D

Printed Name and Title of Person Signing: Scott Adams, Vice President

Signature and Date: 

Received by the City of Goodlettsville

By (Printed Name and Title): _____

Signature, Date, and Time: _____

ITEM NUMBER	DESCRIPTION	UNIT	BID PRICE
QPL 40.001	HIGH PERFORMANCE FOG SEALS (Min. Shot rate of 0.22 gal/ sq. yrd.)	SQ YRD	\$2.45 / SY
QPL 40.003	REJUVENATING SEALERS (Applied according to manufactures recommendation)	SQ YRD	\$2.75 / SY
QPL 40.004	PAVEMENT REJUVENATORS (Applied according to manufactures recommendation)	SQ YRD	\$1.65 / SY
QPL 40.005	BITUMINUS SURFACE TREATMENTS (Applied according to manufactures recommendation)	SQ YRD	\$3.50 / SY
905.05.011	HOT POUR JOINT SEALER (Applied according to manufactures recommendation)	LB	\$2.75 / LB
I 1.50	INFRARED ASPHALT REPAIR (1 SQ FT - 50 SQ FT)	SQ FT	\$8.00 / SF
I 51.100	INFRARED ASPHALT REPAIR (51 SQ FT - 100 SQ FT)	SQ FT	\$8.00 / SF
I 101.200	INFRARED ASPHALT REPAIR (101 SQ FT - 200 SQ FT)	SQ FT	\$8.00 / SF
I 200	INFRARED ASPHALT REPAIR (More than 200 SQ FT)	SQ FT	\$8.00 / SF

All Sealers and fillers must be listed on the State of Tennessee Department of Transportation Qualified Product List under the Pavement Sealers and/or Joint Sealers and Fillers categories.

Infrared Asphalt Repair Specification attached (Addendum A).

Proper safety precautions shall be taken including traffic cones, signage, and flagmen (if necessary) to insure a safe workplace for workers, pedestrians and automobile traffic.

All Traffic Control shall be in accordance with current MUTCD standards

CITY OF GOODLETTSVILLE PAVEMENT PRESERVATION CONTRACT TERMS AND CONDITIONS

The parties hereby agree to the following terms and conditions:

This contract is initiated by and between the City of Goodlettsville ("City") and Pavement Restorations, Inc. ("Contractor") located at 10162 St. Louis St., Melrose, TN 38358

1. Duties and Responsibilities

1.1 Duties and Responsibilities

CONTRACTOR agrees to provide the goods and services defined in the solicitation per the terms and conditions identified in the solicitation.

- This is an indefinite delivery/indefinite quantity contract for the preservation treatment of various City of Goodlettsville-owned roadway surfaces using the line item pricing shown in the bid documents.

1.2 Representations of the Contractor

In order to induce the City to execute this Contract and recognizing that the City is relying thereon, the Contractor, by executing this Contract, makes the following express representations to the City:

- The Contractor is fully qualified to act as the contractor for this project and has, and shall maintain, any and all licenses, permits or other authorizations necessary to act as the designer and builder for the project;
- The Contractor has become familiar with the project sites and the local conditions under which the project is to be constructed and operated;
- The Contractor has received, reviewed, and carefully examined all of the documents which make up this Contract and has found them to be generally sufficient to indicate and convey understanding of the terms and conditions for constructing and completing the project; and the Contractor further agrees to notify the City of all conflicts, errors, ambiguities, or discrepancies that are discovered in the Contract including, but not limited to any plans and specifications.
- The Contractor had access to the sites for examination, exploration, prior to submitting their proposal and relied exclusively upon the Contractor's own estimates and investigations and other data which was necessary for full and complete information upon which the Contractor's bid was based; in addition to the representations contained within the Contractor's bid documents.

1.3 Stormwater Management

All activities performed in under this contract, shall be conducted in full compliance with the City of Goodlettsville's stormwater ordinance. This requirement pertains to the unlawful/prohibited discharges to the City's storm sewer system. It prohibits the discharge of non-stormwater discharges into the municipal storm sewer system. Contractor shall bear responsibility for all of Contractor's (and sub-contractor's) actions that cause the City to violate regulatory permits, Federal, state or local environmental regulations. Contractor's responsibility shall include, but not be limited to, immediate clean-up and proper disposal, payment of all fines, assessments and/or civil penalties incurred due to Contractor's or sub-contractor's work, actions, design or installation as well as payment for any mitigation measures required due to the violation and clean-up associated with any violation.

2. Terms

2.1 Contract Term

September 6, 2023

The term of this contract will begin on ~~XXXXXX~~ upon prior approval of the City of Goodlettsville's Board of Commissioners. The initial contract term will end twelve (12) months from the beginning date.

This contract may be extended by a contract amendment. The option to extend shall be exercised by and in the discretion of the City Manager. In no event shall the term of this contract, including extensions, exceed sixty (60) months from the date of the executed contract.

3. Compensation

3.1 Compensation

The City shall pay and the Contractor shall accept as full and complete payment for the Contractor's timely performance of all its obligations hereunder. The price set forth herein shall constitute the contract price, based on submitted and approved bid documents, which shall not be modified. The Contractor agrees the contract price is subject to upward or downward revision to reflect variation in the expected quantities or unit priced work, use of allowances, increases and decreases in the scope of work and other changes contemplated by and made in accordance with the terms of this Contract. Notwithstanding any other provision of the Contract, Contractor is not guaranteed to earn any minimum amount of compensation. Rather, the total amount of compensation Contractor may earn under this Contract shall be based on the total number of authorized and approved units of work performed.

The City shall pay the Contractor in accordance with the procedures set forth in this paragraph. Following completion of approved work, Contractor shall submit an invoice to the City outlining the completed work. The City will process the invoice for payment within thirty (30) days of submission. Each payment request shall be signed by the Contractor and shall constitute the Contractor's representation that the quantity of work has reached the level of which payment is requested, that the work has been properly installed and performed. The Contractor also constitutes an affirmative representation and warranty that all work for which the City has paid is free and clear of any lien, claim or other encumbrance of any person whatsoever.

When payment is received by the Contractor, the Contractor agrees to pay any subcontractors, employees, laborers, etc. amounts they are due for the work completed on behalf of the City within fifteen (15) days of receipt. Neither payment to the Contractor, utilization of the project for any purpose by the City, nor any other act or omission by the City shall be interpreted to construe as an acceptance of any work of the Contractor not strictly in compliance with this contract.

The City may refuse to make payment and, if necessary, may demand the return of a portion or the entire amount previously paid to the Contractor due to:

- The quality of a portion, or all, of the Contractor's work not being in accordance with the requirements of this Contract;
- The quantity of the Contractor's work not being as represented in the Contractor's payment request, or otherwise;
- The Contractor's rate of progress being such that, in the City's opinion, substantial or final completion, or both, may be inexcusably delayed;
- The Contractor's failure to use Contract funds previously paid by the City to pay the Contractor's project-related obligations including, but not limited to, subcontractors, laborers, material, equipment suppliers, etc.,
- Claims made, pending or known against the City or its property in relation to this contract or the acts or omissions of the Contractor or any subcontractors;
- Loss caused by the Contractor or subcontractors; and,
- The Contractor's failure or refusal to perform any of its obligations to the City.

In the event the City makes demand upon the Contractor for previous amount(s) paid, the Contractor shall promptly comply with such demand within ten (10) days of receipt of notice.

Should the City believe there are substantial delays or final completion is inexcusably delayed, the City shall be entitled, but not required, to withhold from any amounts otherwise due to the Contractor an amount then believed by the City to be adequate to recover liquidated damages applicable to such delays. If the Contractor overcomes the delay in achieving final completion, or any part thereof, for which the City has withheld payment, the City shall promptly release to the Contractor those funds withheld, but no longer applicable, as liquidated damages.

Prior to final payment, the Contractor shall furnish the City the following:

- An affidavit that all of the Contractor's obligations to subcontractor, laborers, equipment and material suppliers and other third parties in connection with the project have been paid or otherwise satisfied;
- Separate releases of claims or claim waivers from each subcontractor, lower tier subcontractor, laborer, supplier or other person or entity who has or might have a claim against the City or the payment bond; and,
- Consent(s) of surety to final payment.

3.2 Other Fees

There will be no other charges or fees for the performance of this contract. The City will make reasonable efforts to make payment within thirty (30) days of receipt of invoice.

3.3 Escalation/De-escalation

The Contractor is eligible for annual escalation/de-escalation adjustment for non-bituminous items. The request for adjustment must be submitted to and approved by the Public Services Director (or designee) no less than sixty (60) days prior to the annual anniversary contract execution date. Any such adjustment shall become effective on the anniversary of the filing of the contract with the City.

4. Termination

4.1 Breach

Should Contractor fail to fulfill in a timely and proper manner its obligations under this contract or if it should violate any of the terms of this contract, the City shall have the right to immediately terminate the contractor. Such termination shall not relieve Contractor of any liability to the City for damages sustained by virtue of any breach by the Contractor or its subcontractors, laborers, etc.

4.2 Funding

Should funding for this contract be discontinued, the City shall have the right to immediately terminate this contract upon written notice to the Contractor.

4.3 Notice

The City may terminate this contract at any time upon thirty (30) days written notice to the Contractor. Should the City terminate this contract, the Contractor shall cease work immediately and the City shall pay the Contractor the amount due for satisfactory work.

5. Nondiscrimination

5.1 Policy

It is the City's policy not to discriminate on the basis of age, race, sex, color, national origin, sexual orientation, gender identity, or disability in its hiring and employment practices, or in admission to, access to, or operation of its programs, services, and activities.

5.2 Nondiscrimination Requirement

No person shall be excluded from participation in, be denied benefits of, be discriminated against in the admission or access to, or be discriminated against in treatment or employment in the City's contracted programs or activities, on the grounds of handicap or disability, age, race, color, religion, sex, national origin, or any other classification protected by Federal or Tennessee State Constitutional or statutory law; nor shall they be excluded from participation in, be denied benefits of, or be otherwise subjected to discrimination in the performance of contract with the City or in the employment practices of the City's contractor's. The Contractor certifies and warrants that it will comply with this nondiscrimination requirement. Contractor, upon request, may be required to show proof of such Nondiscrimination policy.

5.3 Letter of Intent to Perform as a Subcontractor/Joint Venture

In the event the Contractor proposes to use subcontractors, sub-consultants, suppliers and/or joint ventures, a letter of intent signed by the Contractor, subcontractor, sub-consultant, supplier, and/or joint venture must be submitted with the City within seven (7) days of contract award. Each company must be licensed to work within the City of Goodlettsville.

5.4 Americans with Disabilities Act (ADA)

Contractor assures the City that all services provided through this contractor shall be completed in full compliance with the Americans with Disabilities Act most current standards for accessible design. Contractor ensures participants with disabilities will be access that is equally effective as that provided to people without disabilities. Information shall be made available upon reasonable request of a qualified person with a disability.

6. Insurance

6.1 Proof of Insurance

During the term of this contract, Contractor shall, at its sole expense, obtain and maintain in full force and effect for the duration of this contract, including any extension, the types and amounts of insurance identified as follows. Proof of insurance shall be required naming the City of Goodlettsville as an additional insured.

- General Liability Insurance in the amount of one million dollars (\$1,000,000.00).
- Automobile Liability Insurance in the amount of one million dollars (\$1,000,000.00).
- Workers' Compensation Insurance with statutory limits required by the State of Tennessee or other applicable laws and Employer's Liability Insurance with limits of no less than one hundred thousand dollars (\$100,000.00), as required by the laws of Tennessee.

Prior to commencement, Contractor will provide City with original or certified copies of certificates and endorsements required by this section and provide that such insurance shall not be canceled, allowed to expire, or be reduced in coverage.

Such insurances shall contain or be endorsed to contain a provision that includes the City of Goodlettsville, its officials, officers, employees, and volunteers as additional insureds with respect to liability arising out of work or operations performed by or on behalf of the Contractor including materials, parts, or equipment furnished in connection with such work. The coverage shall contain no special limitations on the scope of its protection afforded to the above-listed insureds.

Any claims related to this agreement, Contractor's insurance coverage shall be primary insurance as respects to the City, its officers, officials, employees, and volunteers. Any insurance or self-insurance programs covering the City, its officials, officers, employees, and volunteers shall be excess of the Contractor's insurance and shall not contribute to it.

Automotive Liability Insurance including vehicles owned, hired, and non-owned, said insurance shall include coverage for loading and unloading hazards. Insurance shall contain or be endorsed to contain a provision that includes the City, its officials, officers, employees, and volunteers as additional insureds with respect to liability arising out of vehicles owned, leased, hired, or borrowed by or on behalf of the Contractor.

Workers' Compensation, Contractor shall maintain workers' compensation insurance with statutory limits as required by the State of Tennessee or other applicable laws and employers' liability insurance. Contractor shall require each of its subcontractors to provide Workers' Compensation for all of the latter's employees to be engaged in such work unless such employees are covered by Contractor's Workers' compensation insurance coverage.

7. Intent and Interpretation

7.1 Intent and Interpretation

With respect to the intent and interpretation of this contract, the City and Contractor agree as follows:

- Unless specifically stated to be the responsibility the City, anything that may be required, implied or inferred by the documents which make up this contract, or any one or more of them, shall be provided by the Contractor for the contract price based on the bid documents;
- Nothing contained in this contract shall create, or be interpreted to create, privity or any other relationship whatsoever between the City and any entity except the Contractor;
- Whenever a word, term, or phrase is used in this contract, it shall be interpreted or construed first, as defined herein; second, if not defined, according to its generally accepted meaning in the construction industry; and third, if there is no generally accepted meaning in the construction industry, according to its common and customary usage;

- The words “include”, “includes”, or “including”, as used within this contract, shall be deemed to be followed by the phrase, “without limitation”;
- The specification herein of any act, failure, refusal, omission, event, occurrence, or condition as constituting a material breach of this contract shall not imply that any other, non-specified act, failure, refusal, omission, event, occurrence or condition shall be deemed not to constitute a material breach of this contract;
- The Contractor shall have a continuing duty to read, examine, review, compare and contrast each of the documents which make up this contract, shop drawings and other submittals and shall give written notice to the City of any conflict, ambiguity, error or omission which the Contractor may find with respect to these documents before proceeding with the affected work. The express or implied approval of the City of any submittals shall not relieve the Contractor of continuing duties imposed hereby, nor shall any such approval be evidence of the Contractor’s compliance with this Contract; and,
- In the event of any conflict, discrepancy, or inconsistency among any of the documents which make up this Contract the following shall control:
 - As between figures given on plans and scaled measurements, the figures shall govern;
 - As between large scale plans and small-scale plans, the large-scale plans shall govern;
 - As between plans and specifications, the requirements of the specifications shall govern;
 - As between this document and the plans or specifications, this document shall govern.
 - Discrepancies between the multiplication of units of work and unit prices will be resolved in favor of the unit prices. Where there are discrepancies between the indicated sum of any column of figures and the correct sum thereof, the City has the right, at its option, to reject the Bid or to accept the correct sum.

7.2 Contractor’s Performance

The Contractor shall perform all of the work required, implied or reasonably inferable from this contract including, but not limited to, the following:

- Construction of the project;
- Construction services consisting of the provision and the prompt payment therefore, of labor, supervision, services, materials, supplies, equipment, fixtures, appliances, facilities, tools, transportation, storage, power, fuel, heat, light, cooling or other utilities required for construction and all necessary permits that may be required;
- The furnishing and maintenance of any required surety bonds and insurance; and,
- The creation and submission to the City, two (2) sets of all manuals, operating instructions, bonds, warranties, guarantees, maintenance instructions, etc.

7.3 Time for Contractor’s Performance and Liquidated Damages

The Contractor shall commence the performance of this contract (“Commencement of Work Date”) within seven (7) calendar days after the date of issuance to the Contractor of a Notice to Proceed by the City, however, in no event shall the Notice to Proceed be issued or performance commence prior to the effective date of this contract as hereafter set out. Once timely commenced, Contractor shall diligently continue its performance to and until final completion of the project. Guarantees and equipment warranties required by this contract shall commence on the date of final inspection. All limitations of time set forth herein are material and are of the essence of this contract.

7.4 Change Orders

Changes to the work within the general scope of this contract may be ordered by a change order and must be approved by the City Manager. The City may order minor changes (those that do not involve a change in the contract price and do not involved a change in the time for the Contractor’s performance) that the City deems necessary for performance of and are consistent with the intent of this contract. The Contractor shall proceed with any such change(s).

7.5 Cease and Desist Order

In the event the Contractor fails or refuses to perform the work as required herein, the City may instruct the Contractor to cease and desist from performing further work in whole or in part. Upon receipt of such instruction, the Contractor shall immediately cease and desist as instructed by the City and shall not proceed further until the cause for the City's instruction has been corrected, or no longer exists, or the City instructs the work may resume. In the event the City issues such instruction and in the event the Contractor fails and refuses within seven (7) days of receipt of same to provide adequate assurances to the City that the cause for such instruction will be eliminated or corrected, then the City shall have the right, but not the obligation, to carry out the work with its own force or with the forces of another contractor, and the Contractor shall be fully responsible and liable for the costs of performing such work. The rights set forth herein are in addition to, and without prejudice to, any other rights or remedies the City may have against the Contractor.

7.6 Subcontractors

Upon execution of this contract, the Contractor shall identify to the City, in writing, any subcontractor not previously identified on the project. The City shall, in writing, state any objection the City may have with to any subcontractor. The Contractor shall not enter into a subcontract with an intended subcontractor that was listed to whom the City objects. Should a proposed subcontractor that was listed when Contractor's proposal was submitted (this does not apply to subcontractors listed after that time) be disapproved, and the Contractor provides proof that the replacement subcontractor will charge Contractor a higher price than the disapproved subcontractor, then the contract price may be adjusted at a rate equal to the difference between the price charged Contractor by the new subcontractor and the price charged by the disapproved subcontractor.

Failure of the City to object to the subcontractor shall not impose on the City any liability or responsibility for the performance or character of said subcontractor.

All subcontracts shall afford the Contractor rights against the subcontractor that correspond to those rights afforded to the City against the Contractor herein, including those rights of contract termination as set forth in this contract.

7.7 Discovering and Correcting Defective or Incomplete Work

In the event Contractor's work is in violation of this contract or in violation of a directive issued by the City, the Contractor shall rework and make right the work at no cost in time or money to the City.

The Contractor shall, at no cost in time or money to the City, correct work rejected by the City as defective or failing to conform to this contract. The Contractor shall reimburse the City for all testing, inspections and other expenses incurred as a result thereof.

The Contractor shall be specifically obligated to correct any and all defective or nonconforming work without additional compensation for a period of twelve (12) months following final completion upon written notice from the City.

The City may choose to accept defective or nonconforming work. In such event, the contract price shall be reduced by the greater of (1) the reasonable costs of removing and correcting the defective or nonconforming work, and (2) the difference between the fair market value of the project as constructed and the fair market value of the project had it not been constructed in such a manner as to include defective or nonconforming work. If the remaining portion of the unpaid contract price, if any, is insufficient to compensate the City for the acceptance of the defective or nonconforming work, the Contractor shall, upon written demand from the City, pay the City such remaining compensation for accepting defective or nonconforming work.

7.8 The City's Right to Suspend Contractor's Performance

The City shall have the right at any time to direct the Contractor to suspend the performance, or any part thereof, for any reason, or without reason. If such suspension is directed by the City, the Contractor shall immediately comply with the Same and shall demobilize as directed.

7.9 Surety Bonds

The Contractor shall furnish separate performance and payment bonds to the City. Each bond shall set forth a penal sum in an amount not less than the contract price. Each bond furnished by the Contractor shall incorporate by reference the terms of this Contract as fully as though they were set forth verbatim in such bonds. In the event the contract price is adjusted by change orders executed by the Contractor, the penal sum of both the performance bond and the payment bond shall be deemed adjusted by like amount. The performance and payment bonds furnished by the Contractor shall be in a form suitable to the City and shall be executed by a surety, or sureties, licensed to do business in Tennessee. Bonds shall be accompanied by a Power of Attorney indicating that the person executing the bond is doing so on behalf of the surety. The Power of Attorney shall have been conferred upon the attorney-in-fact prior to the date of the bond. The Power of Attorney shall show the date of appointment of the attorney-in-fact and that the appointment and power have not been revoked and remain in effect.

8. General Terms and Conditions

8.1 Taxes

The City shall not be responsible for any taxes incurred by the Contractor. Contractor cannot claim tax-exemption from taxes by virtue of any exemption that is provided to the City.

8.2 Warranty

Contractor warrants that for a period of one year from date of delivery and/or installation, the goods provided shall be free of any defects that interfere with or prohibit the use of the goods for the purposes for which they were obtained. During the warranty period, the City may request the Contractor repair or replace any defective goods. In that event, Contractor shall repair or replace the defective goods at Contractor's expense within thirty (30) days of the notice.

8.3 Maintenance of Records

Contractor shall maintain documentation for all charges against the City. The books, records, and/or documents of Contractor, as they relate to the work performed under this contract, shall be maintained for a period of five (5) years from the date of final payment received and are subject to audit at any time. Records shall be maintained in accordance with generally accepted accounting principles.

All documents and materials related to this contractor which are in the possession of the Contractor or any subcontractor shall be made available to the City for inspection and copying upon request.

8.4 Monitoring

The Contractor's activities conducted and records maintained pursuant to this contract shall be subject to monitoring and evaluation by the City.

8.5 Contract Modification

This contract may be modified only by written amendment executed by all parties and their signatories.

8.6 Partnership or Joint Venture

This contract shall not in any way be construed or intended to create a partnership or joint venture between the parties or to create the relationship of principal and agent between or among any of the parties. None of the parties hereto shall hold itself out in a manner contrary to the terms of this paragraph. No party shall become liable for any representation, act, or omission of any other party contrary to the terms of this contract.

8.7 Waiver

No waiver of any provision of this contract shall affect the right of any party to enforce such provision or to exercise any right or remedy available to it.

8.8 Compliance with Laws

Contractor agrees to comply with all applicable Federal, State, and local laws.

8.9 Taxes and Licensure

Contractor shall have all applicable licenses and be current on its payment of all applicable taxes.

8.10 Ethical Standards

Contractor hereby represents that Contractor has not been retained or retained any persons to solicit or secure a City contract upon an agreement or understanding for a contingent commission, percentage, or brokerage fee, except for retention of bona fide employees or bona fide established commercial selling agencies for the purchase of securing business. Breach of the provisions of this paragraph is, in addition to a breach of this contract, a breach of ethical standards, which may result in civil or criminal sanction and/or debarment or suspension from being a contractor or subcontractor under City contracts.

8.11 Indemnification and Hold Harmless

Contractor shall indemnify and hold harmless the City, its officers, agents, and employees from:

- Any claims, damages, costs and attorney fees for injuries or damages arising, in part or in whole, from the negligent or intentional acts or omissions of Contractor, its officers, employees and/or agents, including its sub or independent contractors, in connection with the performance of the contract, and.
- Any claims, damages, penalties, costs and attorney fees arising from any failure of Contractor, its officers, employees, and/or agents, including its sub or independent contractors, to observe applicable laws, including, but not limited to, labor laws and minimum wage laws.
- In any and all claims against the City, its officers, agents, or employees, by any employee of the Contractor, any subcontractor, anyone directly or indirectly employed by any of them, or anyone for whose acts any of them may be liable, the indemnification obligation shall not be limited in any way by any limitation on the amount or type of damages, compensation or benefits payable by or for the Contractor or any subcontractor under workers' compensation acts, disability acts or other employee benefit acts.
- The City will not indemnify, defend or hold harmless in any fashion the Contractor from any claims arising from any failure, regardless of any language in any attachment or other document that the Contractor may provide.
- Contractor shall pay the City any expenses incurred as a result of Contractor's failure to fulfill any obligation in a professional and timely manner under this Contract.

8.12 Attorney Fees

Contractor agrees that in the event either party takes legal action to enforce any provision of the contract or to obtain a remedy for any breach of this contract, and in the event the City prevails in such action, Contractor shall pay all expenses for such action incurred at any and all stages of the litigation including costs and reasonable attorney fees for the City.

8.13 Assignment

The provisions of this contract may not be reassigned or transferred in whole or in part without the prior written consent by the City. Any such reassignment or transfer shall not release Contractor from its obligations hereunder.

8.14 Entire Contract

This contract sets forth the entire agreement between the parties with respect to the subject matter hereof and shall govern the respective duties and obligations of the parties.

8.15 Force Majeure

No party shall have any liability to the other hereunder by reason of delay or failure to perform any obligation or covenant if the delay or failure to perform is occasioned by force majeure, meaning any act of God, storm, fire, casualty, unanticipated work stoppage, strike, lockout, labor dispute, civil disturbance, riot, war, national emergency, act of Government, act of public enemy, or other cause of similar or dissimilar nature beyond its control.

8.16 Governing Law

The validity, construction and effect of this contract any and all extensions and/or modifications thereof shall be governed by the laws of the State of Tennessee. Tennessee law shall govern regardless of any language in any attachment or other document that the Contractor may provide.

ADDENDUM A: PAVEMENT PRESERVATION CONTRACT ATTACHMENT

SPECIFICATIONS FOR ASPHALT REPAIR

Infrared Pavement Restoration for Repairing Damaged Asphalt or Surface Failures

Purpose

The purpose of this document is to specify the process for utilizing Infrared Restoration for repairing asphalt surface failures. A minimum of 2 years' experience on roadway infrared asphalt restorations is required for this project.

Description

The work shall consist of furnishing materials (see Materials) and performing a permanent repair on an area of damaged asphalt pavement. The location to be restored shall be identified prior to the commencement of repair activities.

Materials

If needed a one-component emulsified maltenes recycling agent (rejuvenator) is to be applied to the restored area in a ratio of 1:1 with water. This solution shall be well dispersed with a commercial grade sprayer at a rate of 8 ounces per square yard of heated area. This application area shall include both the area under repair as well as the area heated but left undisturbed around the perimeter of the repair. The application shall take place after the area has been scarified and just prior to the addition of new asphalt. This rejuvenator replaces the light oil component of asphalt, which has oxidized out over time.

The Infrared repair contractor shall provide TDOT 411E or D mix at plant mix temperature (275-325 degrees Fahrenheit) to be added to the repair to bring the area up to grade with the existing road.

Equipment

General – The infrared restoration equipment shall consist of a truck mounted self-contained asphalt restoration system that meets the following specifications. The HDE Infrared Heat System Model P750 is an approved unit that meets the following equipment requirements. This unit is the standard for this project. A minimum of 2 years' experience with this equipment is required.

Infrared Heater- The heating chamber shall consist of (14) 75,000 BTU High Intensity Infrared Heaters with Venturi Type gas mixing. The heat area shall be a minimum of 6 Ft x 12 Ft to provide a minimum 12 Ft lane width repair area per heat. The chamber shall consume no more than 15,000 BTU per square foot of heated area. This rate of consumption shall translate into the ability of the heater to soften asphalt to a depth of 1 ½ -2 ½ inches in 8-10 minutes without burning the surface. The infrared heat chamber shall be fueled by liquid propane using a High Capacity CGA approved vaporizer (40USG @ -40 degrees F) to convert the liquid propane to vapor and provide full pressure to the heaters until the propane cylinders are empty. Truck unit shall contain at least 4 cylinders of propane to provide enough fuel to operate heater chamber and reclaimer for 2 days. Heat system shall utilize an Intelligent Control Station with HMI and PLC Functions to monitor heat timing for quality control of infrared system.

Asphalt Storage Unit- A thermostatically controlled storage unit will be utilized to insure that sufficient hot virgin asphalt is on hand. The reclaimer/storage unit shall contain two 37,000 BTU atmospheric infrared heaters. Thermostats shall work in conjunction with timers to insure proper temperature is maintained without harming the asphalt. Electronic ignition shall be standard. An automatic switchover regulator shall be used to reduce the tank pressure to 11" water column.

Compactor/Roller- the compaction equipment used shall be vibratory capable of generating at least 2000 lbs. of applied force/square inch

Steel Rake- a steel rake shall be used to delineate the repair area along the chalk line and to scarify the heated area of the patch inside the chalk line to a depth of at least 2 inches.

Asphalt Lute- a 36" wide lute shall be used to evenly distribute the added asphalt and to establish the proper grade.

8.17 Venue

Any action between the parties arising from this agreement shall be maintained in the courts of Davidson County, Tennessee.

8.18 Severability

Should any provision of this contract be declared to be invalid by any court of competent jurisdiction, such provision shall be severed and shall not affect the validity of the remaining provisions of this contract.

Signed to its legality this 6th day of September, ~~2021~~ 2023.

CONTRACTOR

Company Name and Address: Pavement Restorations, Inc.
10162 Stinson Street, Milan, TN 38358

Printed Name and Title: Scott Adams, VP

Authorized Signature: 

CITY

City of Goodlettsville
105 S. Main Street
Goodlettsville, TN 37072

Printed Name and Title: _____

Authorized Signature: _____

City Attorney

Printed Name: _____

Signature: _____