

ORDINANCE No. 136, SERIES 2013

AN ORDINANCE AMENDING THE FOLLOWING PROVISIONS OF THE LAND DEVELOPMENT CODE AS PART OF A CONTINUING EFFORT TO UPDATE THE ZONING REGULATIONS FOR LOUISVILLE METRO: 1.2.2, 4.8.5.B.2, 6.1.1, 6.1.2, 6.2.7.A, 6.2.8 Illustrations #3, 6.2.8 Illustrations #5, Chapter 10 Part 2 Intent language, 10.2.4.A, 10.2.8.A, 10.2.11, 10.2.12, 10.3.7.A.1.12, 10.4.1, 10.4.2, 10.4.3, 10.4.4, 10.4.13, 10.5.2 and Appendix 10A. (CASE NO. 17064).

Sponsored by: Councilman JAMES PEDEN

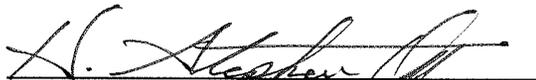
WHEREAS, the Planning Commission held a public hearing on March 29, 2012, to consider a number of amendments to various sections of the Land Development Code ("LDC") for the purposes of updating the LDC, resolving potential conflicts in the application of various LDC provisions, and clarifying language that was determined to be potentially confusing on its face or in its application; and,

WHEREAS, the Metro Council concurs in and adopts the findings and recommendations of the Planning Commission in Case No. 17064 as reflected in the Planning Commission's minutes and records, and as more specifically set forth in the attached Proposed LDC Text Amendments;

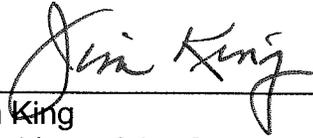
NOW THEREFORE BE IT RESOLVED BY THE LOUISVILLE METRO COUNCIL

Section I: The Metro Council hereby adopts the amendments to the Land Development Code as contained in the minutes and records of the Planning Commission in Case No. 17064, and as specifically set forth in the attached Proposed LDC Text Amendments.

Section II: This ordinance shall take effect upon its passage and approval.



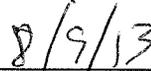
H. Stephen Ott
Metro Council Clerk



Jim King
President of the Council



Greg Fischer
Mayor



Approval Date

APPROVED AS TO FORM AND LEGALITY:

Michael J. O'Connell
Jefferson County Attorney

BY: 

**LOUISVILLE METRO COUNCIL
READ AND PASSED**
August 8, 2013

PROPOSED LDC TEXT AMENDMENTS-ROUND ONE, PART FIVE-CASE NO. 17064-UPDATED 7/8/13

ISSUE #	LDC SECTION	CURRENT LDC TEXT	PROPOSED LDC TEXT
111	1.2.2	New definition to promote the Green Management Practices concept.	<p><u>Best Management Practice (BMP) - A BMP is a technique, process, activity, or structure used to reduce volume and/or the content of a pollutant of concern from a stormwater discharge to the maximum extent practical (MEP). BMP's include simple nonstructural methods, such as good housekeeping and preventative maintenance. BMP's may also include structural modifications, such as the installation of bioretention measures.</u></p>
111	1.2.2	New definition to promote the Green Management Practices concept.	<p><u>Bio Retention - A form of retention used to treat a portion of the stormwater volume through the use of soil and vegetation. Reduces total volume and pollutant loading of stormwater runoff and increases infiltration and groundwater recharge.</u></p>
111	1.2.2	New definition to promote the Green Management Practices concept.	<p><u>Constructed Wetlands - Incorporate marshy and pool areas to treat and temporarily store stormwater runoff.</u></p>
111	1.2.2	New definition to promote the Green Management Practices concept.	<p><u>Green Infrastructure - An adaptable term used to describe an array of materials, technologies and practices that use natural systems - or engineered systems that mimic natural processes - to enhance overall environmental quality and provide utility services; also referred to as Green Management Practices (GMP).</u></p>
111	1.2.2	New definition to promote the Green Management Practices concept.	<p><u>Green Management Practice (GMPs) - Also referred to as Green Infrastructure -As a general principal, Green Infrastructure are BMP techniques that use soil and vegetation to infiltrate, evapotranspirate, treat and/or recycle stormwater runoff. Examples of GMPs are green roofs, porous pavement, rain gardens, vegetated swales, constructed wetlands. These systems are planned, designed and managed to mimic natural systems.</u></p>
111	1.2.2	New definition to promote the Green Management Practices concept.	<p><u>Green Streets - A street designed to integrate a system of GMPs within its right of way, reduce the amount of water that is piped directly to streams and rivers, be a visible component of a system of green infrastructure that is incorporated into the aesthetics of the community, make the best use of the street tree canopy for stormwater interception as well as temperature mitigation and air quality improvement, ensure the street has the least impact on its surroundings, particularly at locations where it crosses a stream or other sensitive area.</u></p>

Green Management Practices (GMP) - MSD and PDS are promoting the use of various green infrastructure building and site construction techniques. Multiple Green Management Practices options and incentives will be discussed in the set of Round One LDC text amendments. Additional discussions regarding proposed Green Management Practices options and incentives will be discussed in the Round Two portion of the LDC Committee meetings. MSD and their consultant have spent a significant amount of time and energy working on this project. GMP related text amendments are listed below.

PROPOSED LDC TEXT AMENDMENTS-ROUND ONE, PART FIVE-CASE NO. 17064-UPDATED 7/8/13

111	1.2.2	New definition to promote the Green Management Practices concept.	<u>Green Alleys - Alleys which reduce, capture, infiltrate, and treat stormwater runoff from the alley and adjacent properties through various GMPs such as pervious pavement, porous asphalt and permeable pavers combined with rain gardens, bioswales and tree boxes with curb cuts.</u>
111	1.2.2	New definition to promote the Green Management Practices concept.	<u>Green Intersections - Street intersections which reduce, capture, infiltrate and treat stormwater runoff from the street and adjacent properties in medium and high density residential and commercial areas; through various GMPs, such as pervious pavement, porous asphalt and permeable pavers combined with tree boxes, rain gardens and tree boxes with curb cuts.</u>
111	1.2.2	New definition to promote the Green Management Practices concept.	<u>High Quality Waters (HQW) - Any Waters of the Commonwealth which have been assessed and designated by the Kentucky Division of Water in the most recent 305(b) biannual report to Congress.</u>
111	1.2.2	New definition to promote the Green Management Practices concept.	<u>Municipal Separate Storm Sewer Systems (MS4) - Is a conveyance or system of conveyances that is owned and maintained by a public entity that discharges to waters of the United States or Commonwealth, which is designed to collect or convey stormwater (including storm drains, pipes, ditches etc.), which is not located in a combined sewer system.</u>
111	1.2.2	New definition to promote the Green Management Practices concept.	<u>Maximum Extent Practicable (MEP) - Is the control standard for discharges from the Municipal Separate Storm Sewer Systems established by 40 CFR 122.34.</u>
111	1.2.2	Amendment to existing LDC definition to promote the Green Management Practices concept.	<p><u>Protected Waterway -</u></p> <p>a. Any perennial stream or river (or portion thereof) that is portrayed as solid on the United States Geological Survey 7.5 minute quadrangle maps, of the most recent edition;</p> <p>b. Wetlands greater than 0.1 acre and subject to federal jurisdiction of the U. S. Environmental Protection Agency and the Army Corps of Engineers;</p> <p>c. Lakes with a permanent pool elevation greater than 3 acres in size if they constitute "waters of the Commonwealth" as defined in KRS 224; and</p> <p>d. Other water bodies that have been designated through nomination and legislative approval. A water body may be nominated as a Protected Water Body by resolution of the legislative body(ies), by resolution of the Planning Commission <u>or designated by the Kentucky Division of Water.</u> The Planning Commission shall conduct a public hearing and recommend candidates for designation to the legislative body(ies) with jurisdictional control which shall have final designation authority.</p>

PROPOSED LDC TEXT AMENDMENTS-ROUND ONE, PART FIVE-CASE NO. 17064-UPDATED 7/8/13

111	1.2.2	New definition to promote the Green Management Practices concept.	<p><u>Pollutant of Concern (POC) - A substance as identified by the Kentucky Division of Water in the 305b report or 303(d) list that may reasonably be expected to affect the designated use of a receiving water.</u></p>
111	1.2.2	New definition to promote the Green Management Practices concept.	<p><u>Stormwater Management - The mechanisms employed to collect and convey stormwater which includes but are not limited to the use of water retention facilities, to provide controlled release into receiving streams.</u></p>
111	4.8.5.B.2	<p>2. Federal Approvals Prerequisite to County Approval. The County shall not grant final approval to any land disturbing activity, development, or subdivision in a wetlands that falls within the federal government's jurisdiction until the Applicant demonstrates that all necessary federal approvals and permits have been obtained.</p>	<p>2. Federal Approvals Prerequisite to County Louisville Metro or Local Regulatory Agency Approval. The County <u>MSD</u> shall not grant final approval to any land disturbing activity, development, or subdivision in a wetlands that falls within the federal government's jurisdiction until the Applicant demonstrates that all necessary federal approvals and permits have been obtained.</p>
111	6.1.1	<p>The intent of this section is to manage vehicular access to land development, while preserving traffic flow in terms of safety, capacity, and speed. The site access approval procedures established herein are intended to balance the right of reasonable access to private property with the right of the citizens of Louisville and Jefferson County to safe and efficient travel. These regulations are intended to implement the Mobility Goals and Objectives of Cornerstone 2020, and Guideline 7 of the Plan Elements.</p>	<p>The intent of this section is to manage vehicular access to land development, while preserving traffic flow in terms of safety, capacity, and speed <u>and to promote green management practices (GMP) within the context of stormwater management techniques and reduction of impervious materials.</u> The site access approval procedures established herein are intended to balance the right of reasonable access to private property with the right of the citizens of Louisville <u>Metro</u> and-Jefferson-County to safe and efficient travel. These regulations are intended to implement the Mobility Goals and Objectives of Cornerstone 2020, and Guideline 7 of the Plan Elements.</p>
111	6.1.2	<p>Construction of curb cuts or access to a public right-of-way serving any new development shall occur only after review of plans and receipt of the necessary permits from the Director of Works or the Kentucky Transportation Cabinet. All new development shall be reviewed for compliance with the Access Management Design Manual. The Director of Works may approve deviations from the Design Manual when site conditions prevent adherence to the manual, based on a determination that the deviation is in accordance with AASHTO standards and will not create a public safety hazard. Deviations from portions of the Design Manual relating to joint access and connections between adjacent uses may be approved if the Director of Works and the Planning Director jointly determine such deviations are consistent with public safety, the form district standards and the intent of the Comprehensive Plan.</p>	<p>Construction of curb cuts or access to a public right-of-way serving any new development shall occur only after review of plans and receipt of the necessary permits from the Director of Works or the Kentucky Transportation Cabinet. All new development shall be reviewed for compliance with the Access Management Design Manual. The Director of Works may approve deviations from the Design Manual when site conditions prevent adherence to the manual, <u>or if GMPs are proposed</u> based on a determination that the deviation is in accordance with AASHTO standards and will not create a public safety hazard. Deviations from portions of the Design Manual relating to joint access and connections between adjacent uses may be approved if the Director of Works and the Planning Director jointly determine such deviations are consistent with public safety, the form district standards and the intent of the Comprehensive Plan. <u>Proposed GMPs within the public right-of-way are subject to approval by the Department of Public Works, MSD and Kentucky Transportation Cabinet, as required.</u></p>

PROPOSED LDC TEXT AMENDMENTS-ROUND ONE, PART FIVE-CASE NO. 17064-UPDATED 7/8/13

111	6.2.7.A	<p>Materials -The engineer shall be guided by sound engineering practices in the selection of materials for street construction and other physical improvement. Wearing surfaces shall be limited to high-type asphalt or Portland cement concrete. Base courses may be of, but not limited to, the following: Portland cement concrete, hot mixed asphalt concrete, crushed limestone, stabilization of acceptable soils with soil-cement, asphalt, lime or other recognized material or combinations thereof. Sub-base stabilization with recognized materials may also be used.</p>	<p>Materials -The engineer shall be guided by sound engineering practices in the selection of materials for street construction and other physical improvement. Wearing surfaces shall be limited to high-type asphalt or Portland cement concrete. Base courses may be of, but not limited to, the following: Portland cement concrete, hot mixed asphalt concrete, crushed limestone, stabilization of acceptable soils with soil-cement, asphalt, lime or other recognized material or combinations thereof. Sub-base stabilization with recognized materials may also be used. If a previous pavement system is proposed, the materials are to be approved by the Department of Public Works and MSD.</p>
111	6.2.8 Illustrations #3	<p>Type, size and location of landscaping within the right-of-way must be in accordance with the requirements of the entity responsible for the right-of-way. Street trees shall be placed in accordance with requirements of the agency having jurisdiction over the roadway and applicable form district standards. Ground cover and low growing vegetation (two feet maximum height) compatible with utility line maintenance are recommended for the verge.</p>	<p>Type, size and location of landscaping within the right-of-way must be in accordance with the requirements of the entity responsible for the right-of-way. Street trees shall be placed in accordance with requirements of the agency having jurisdiction over the roadway and applicable form district standards. Ground cover and low growing vegetation (two feet maximum height) compatible with utility line maintenance are recommended for the verge. If a green street design is proposed, refer to Chapter 13: Native Revegetation from the MSD Design Manual (a link to document found in Appendix 10A) for required plantings and exemptions from street trees.</p>
111	6.2.8 Illustrations #5	<p>New text referring to Green Management Practices.</p>	<p>All vegetated verges, median and swales shown in the illustrations may be depressed with slopes no greater than 4:1 and planted in such a fashion that promotes the infiltration of stormwater as set forth in Chapter 10 of the LDC and Chapter 18 of the MSD Design Manual, allowable plantings can be found in Chapter 13: Native Revegetation of the MSD Design Manual (a link to the document found in Appendix 10A). In no case shall the plantings impair the vision of automobile traffic, causing an unsafe condition.</p>
111	Ch 10 Part 2, Intent paragraph E	<p>New intent statement in landscaping chapter regarding Green Management Practices</p>	<p>E. Reducing the total volume or stormwater pollutants entering streams and stormwater runoff entering the sewer system thus lessening impact to streams and waterways and maintain pre-development hydrology per MSD standards.</p>
111	10.2.4.A	<p>New language in Chapter 10 referring to how using Green Management Practices can impact landscape buffer area requirements.</p>	<p>These requirements may be modified as long as the area within the property perimeter landscape buffer contains an MSD approved Green Management Practice (GMP). In such a case, refer to Chapter 13: Native Revegetation in the MSD Design Manual (a link to document found in Appendix 10A) for planting requirements. These modifications shall be approved by Planning Commission staff Landscape Architect.</p>

111	10.2.8.A	<p>Mandatory: Street trees are required for residentially zoned property along collector and arterial level roadways, as specified in the applicable form district. Street trees shall be provided in the public right-of-way, with permission of the agency having jurisdiction over the right-of-way. If the Public Works Department or Kentucky Transportation Cabinet refuses to allow plantings in the right-of-way, street trees shall be provided adjacent to the right-of-way, in a minimum 6 foot wide planting area. All street trees shall conform to the minimum requirements of the Streetscape Master Plan Manual. If a streetscape master plan has been approved for a specific street, all street trees shall be planted in accordance with the approved master plan. Street trees shall be regularly spaced and planted at a ratio of no less than 1 Large (Type A) tree per 50 lineal feet of right-of-way, or 1 Medium (Type B) tree per 40 lineal feet, or 1 Small (Type C) tree per 30 lineal feet. Small trees are permitted only where utility lines or other site constraints will not allow installation of Large or Medium trees.</p>	<p>Mandatory: Street trees are required for residentially zoned property along collector and arterial level roadways, as specified in the applicable form district. Street trees shall be provided in the public right-of-way, with permission of the agency having jurisdiction over the right-of-way. If the Public Works Department or Kentucky Transportation Cabinet refuses to allow plantings in the right-of-way, street trees shall be provided adjacent to the right-of-way, in a minimum 6 foot wide planting area. All street trees shall conform to the minimum requirements of the Streetscape Master Plan Manual. If a streetscape master plan has been approved for a specific street, all street trees shall be planted in accordance with the approved master plan. Street trees shall be regularly spaced and planted at a ratio of no less than 1 Large (Type A) tree per 50 lineal feet of right-of-way, or 1 Medium (Type B) tree per 40 lineal feet, or 1 Small (Type C) tree per 30 lineal feet. Small trees are permitted only where utility lines or other site constraints will not allow installation of Large or Medium trees. <u>In the event that an MSD approved Green Management Practice (GMP) is being proposed within the right of way or along the edge of the property, the street tree(s) shall be chosen from Chapter 13. Native Revegetation from the MSD Design Manual (a link to document found in Appendix 10A).</u></p>
111	10.2.11	<p>The 3-foot or 6-foot screen requirement can be met using shrubs, evergreen trees, berms, or fencing individually or in combination. Continuous screens may be broken and staggered for visual interest provided the result is a visually continuous screen. The 3-foot screen requirement may be reduced to 18 inches when adjacent to financial institutions, nursing homes, or other uses where security is determined to be a factor. All screening material including plants, fencing, walls, and berms used to satisfy these requirements shall conform to the standards found in Chapter 10, Part 4, Implementation Standards. Landscape material in buffer areas shall be protected by the use of curbs, wheel stops, fencing, or planted at least 4 feet from the edge of pavement when sufficient buffer area exists.</p>	<p>The 3-foot or 6-foot screen requirement can be met using shrubs, evergreen trees, berms, or fencing individually or in combination. Continuous screens may be broken and staggered for visual interest provided the result is a visually continuous screen. The 3-foot screen requirement may be reduced to 18 inches when adjacent to financial institutions, nursing homes, or other uses where security is determined to be a factor. All screening material including plants, fencing, walls, and berms used to satisfy these requirements shall conform to the standards found in Chapter 10, Part 4, Implementation Standards. Landscape material in buffer areas shall be protected by the use of curbs, wheel stops, fencing, or planted at least 4 feet from the edge of pavement when sufficient buffer area exists. <u>Note: If VUA LBA area contains a GMP, then plant materials found in Chapter 13: Native Revegetation of the MSD Design Manual (a link to document found in Appendix 10A) are to be used and at least a 3 foot minimum continuous screen is required.</u></p>

PROPOSED LDC TEXT AMENDMENTS-ROUND ONE, PART FIVE-CASE NO. 17064-UPDATED 7/8/13

111	10.2.12	<p>Landscape areas shall be provided within all Vehicular Use Areas to break up large impervious areas and allow for a greater distribution of tree canopy coverage. Dimensional requirements have been established to insure that interior landscape areas serve the intended goals and provide enough ground area to support required plant material. Interior landscape areas shall not be required for enclosed VUAs that are secured from access by a fence, wall or similar barrier at least 3.5 feet in height and used for storage, loading docks or their associated maneuvering areas, or for loading, unloading, and storage areas in an industrial zone PD (industrial uses), C-M, M-1, M-2, M-3, PEC & EZ-1 or in loading dock & truck maneuvering areas in Commercial and Office zones.</p>	<p>Landscape areas shall be provided within all Vehicular Use Areas to break up large impervious areas and allow for a greater distribution of tree canopy coverage and to provide the opportunity to capture parking lot stormwater runoff, thus increasing water quality and retaining greater amounts of storm water on site through infiltration. Dimensional requirements have been established to insure that interior landscape areas serve the intended goals and provide enough ground area to support required plant material. Interior landscape areas shall not be required for enclosed VUAs that are secured from access by a fence, wall or similar barrier at least 3.5 feet in height and used for storage, loading docks or their associated maneuvering areas, or for loading, unloading, and storage areas in an industrial zone PD (industrial uses), C-M, M-1, M-2, M-3, PEC & EZ-1 or in loading dock & truck maneuvering areas in Commercial and Office zones.</p>
111	10.3.7.A.1.12	<p>New reference in Gene Snyder Freeway requirements to Green Management Practices concept.</p>	<p><u>In the event that the GMP is utilized within the Gene Snyder Freeway Buffer, the trees may be selected from Chapter 13: Native Revegetation from the MSD Design Manual (a link to document found in Appendix 10A).</u></p>
111	10.4.1	<p>Any proposed new plant material used to satisfy the requirements of this development code shall be of a species other than those listed in the current version of the Louisville and Jefferson County Prohibited Plant List adopted by the Planning Commission. To the greatest extent possible, new plant material should be selected from species included in the current version of the Louisville and Jefferson County Preferred Plant List adopted by the Planning Commission. This list consists of species that are either native to Jefferson County or that perform particularly well in the area, or both.</p>	<p>Any proposed new plant material used to satisfy the requirements of this development code shall be of a species other than those listed in the current version of the Louisville and Jefferson County Prohibited Plant List adopted by the Planning Commission. To the greatest extent possible, new plant material should be selected from species included in the current version of the Louisville and Jefferson County Preferred Plant List adopted by the Planning Commission. This list consists of species that are either native to Jefferson County or that perform particularly well in the area, or both. <u>For areas where bio-retention or constructed wetlands are proposed, plants must be chosen from Chapter 13: Native Revegetation from the MSD Design Manual (a link to document found in Appendix 10A) except as indicated in Part 3 of this Chapter.</u></p>
111	10.4.1	<p>Over-dependence on a single genus may result in extensive loss due to disease, insects or other pests. To ensure a diversity of species within Louisville and Jefferson County's forests the mix of required trees and shrubs for all development proposals shall conform to the following diversification formula: 50% maximum of any single species (e.g., Quercus rubrum)</p>	<p>Over-dependence on a single genus may result in extensive loss due to disease, insects or other pests. To ensure a diversity of species within Louisville and Jefferson County's forests the mix of required trees and shrubs for all development proposals shall conform to the following diversification formula: 50% maximum of any single species (e.g., Quercus rubrum); <u>25% maximum of any single species within bio-retention, wetlands or other GMP planting areas provided the area is over 200 s.f.</u></p>
111	10.4.2	<p>All plant materials shall be living plants (artificial plants are prohibited.) Plant materials shall conform to the standards of the American Association of Nurserymen and shall have passed any inspections required under state regulations. Bare root plants, with the exception of vines and groundcovers shall be prohibited.</p>	<p>All plant materials shall be living plants (artificial plants are prohibited.) Plant materials shall conform to the standards of the American Association of Nurserymen and shall have passed any inspections required under state regulations. Bare root plants, with the exceptions of vines, groundcovers and bio-retention plants shall be prohibited.</p>

PROPOSED LDC TEXT AMENDMENTS-ROUND ONE, PART FIVE-CASE NO. 17064-UPDATED 7/8/13

111	10.4.3	<p>All required plant material shall meet the following size criteria at time of installation: Evergreen Trees - 6 feet high; Shrubs (when required for 6-8 feet screening) - 36 inches high; Shrubs (when required for 3 feet screening) - 18 inches high; Grasses or Ground Cover - N/A. Size criteria for deciduous tree species shall be determined based on its Size Type as described in Chapter 1 Part 2 (Definitions) of the Land Development Code. Installation criteria for each Size Type is as follows: Small Tree (under 25 feet in height at maturity) - 6 feet high; Medium Tree (25 feet-50 feet in height at maturity) - 1 ¼ inch caliper; Large Tree (over 50 feet in height at maturity) - 1 ¾ inch caliper.</p>	<p>All required plant material shall meet the following size criteria at time of installation: Evergreen Trees - 6 feet high; Shrubs (when required for 6-8 feet screening) - 36 inches high; Shrubs (when required for 3 feet screening) - 18 inches high; Grasses or Ground Cover - N/A. Shrubs within GMP planting area - 18 inches high. Size criteria for deciduous tree species shall be determined based on its Size Type as described in Chapter 1 Part 2 (Definitions) of the Land Development Code. Installation criteria for each Size Type is as follows: Small Tree (under 25 feet in height at maturity) - 6 feet high; Medium Tree (25 feet-50 feet in height at maturity) - 1 ¼ inch caliper; Large Tree (over 50 feet in height at maturity) - 1 ¾ inch caliper; Bio-retention area tree found in Ch. 13 of MSD Design Manual but not in Appendix 10A preferred plant list - 1 inch caliper</p>
111	10.4.4	<p>No newly planted trees may be planted closer together than 10 feet for small trees, 25 feet for medium trees, and 30 feet for large trees. When planting new trees near existing mature trees, leave a minimum distance of half of the new tree's mature spread between the new tree and the existing trees. Planning Commission staff can authorize a closer spacing of trees in special circumstances.</p>	<p>No newly planted trees may be planted closer together than 10 feet for small trees, 25 feet for medium trees, and 30 feet for large trees. When planting new trees near existing mature trees, leave a minimum distance of half of the new tree's mature spread between the new tree and the existing trees. Planning Commission staff can authorize a closer spacing of trees in special circumstances. When GMP planting areas are used within perimeter buffer area, the screening intent of this part should still be met.</p>
111	10.4.13	<p>New reference in tree preservation maintenance section to Green Management Practices.</p>	<p>E. In addition to these maintenance requirements, area designated as bio-retention or other MSD approved GMP planting areas shall be per MSD requirements.</p>
111	10.4.13	<p>New reference in tree preservation maintenance section to Green Management Practices.</p>	<p>F. Replacement requirements and standards of plant material in areas defined as bio-retention or other MSD approved GMP plant areas shall be per MSD maintenance standards.</p>
111	10.5.2	<p>The following are examples of open space consistent with this type. 1. Woodland conservation/ protection areas. 2. Areas managed for the protection of habitat, native vegetation and/or threatened or endangered species (e.g. nature preserves) 3. Jurisdictional and non-jurisdictional wetlands 4. Designated greenways 5. Stormwater detention and conveyance zones 6. Regulatory floodplains and conveyance zones 7. Required stream buffers located outside the regulatory floodplain and conveyance zone 8. Lands with slopes over 20% 9. Area with karst (sinkhole geology) 10. Lands with unstable soils</p>	<p>The following are examples of open space consistent with this type. 1. Woodland conservation/ protection areas. 2. Areas managed for the protection of habitat, native vegetation and/or threatened or endangered species (e.g. nature preserves) 3. Jurisdictional and non-jurisdictional wetlands (existing or constructed) 4. Designated greenways 5. Stormwater detention and retention basins 6. Regulatory floodplains and conveyance zones 7. Required stream buffers located outside the regulatory floodplain and conveyance zone 8. Lands with slopes over 20% 9. Area with karst (sinkhole geology) 10. Lands with unstable soils 11. Bio-retention and other MSD approved Green Management Practice (GMP) planting areas.</p> <p>For those utilizing the Green Management Practices options found within Chapter 10, further information regarding appropriate plant options can be found in Chapter 13: Native Revegetation from the MSD Design Manual. Navigate to this web link to view the document: http://www.louisvilleky.gov/NR/rdonlyres/2D345FA1-F5F8-467E-903C-97C50C0DE1A5/0/GreenInfrastructureManualpost3612.pdf</p>
111	Appendix 10A	<p>The following reference to the online location of the MSD Green Infrastructure Manual will be added to Appendix 10A.</p>	

PROPOSED LDC TEXT AMENDMENTS-ROUND ONE, PART FIVE-CASE NO. 17064-UPDATED 7/8/13

NOTES: MSD and PDS are promoting the use of various green infrastructure building and site construction techniques. Multiple Green Management Practices related definitions and intent statements are included in this set of Round One LDC text amendments. Additional discussions regarding proposed Green Management Practices options and incentives will be discussed in the Round Two portion of the LDC Committee meetings.