

City of Springfield, TN
Drainage Plan and Drainage Calculations Review Checklist



Project Name:	
Project Location:	
Latitude/Longitude:	
File/Reference Number:	
Submittal Date:	
Applicant:	
Contact Name:	
Contact Phone Number:	
Contact E-mail:	
Reviewer:	
Review Date:	

Check submittal for the following:	Included?			Comments	Response	Resolution (Y/N/Add'l Info)
	Yes	No	N/A			
General Project Information						
Site address and legal description	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			
Vicinity map	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			
Project narrative	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			
Purpose/intended Use	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			
Hydrologic Parameters	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			
2-yr/24-hr design storm used for EPSC measures (5-year if unavailable parameters or ETW)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			
Impact of development on site hydrology and stormwater quality	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			
Offsite flow conditions	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			
Description of stormwater management targets	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			
Rationale for selection of permanent stormwater control measures	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			
Runoff Reduction Requirement Obtained	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			
Structural Stormwater Control Measures	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			
Bioretention	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			
Dry Detention	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			
Extended Detention	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			
Filter Strips	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			
Vegetated Swales	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			
Green Roofs	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			
Managed Vegetated Areas	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			
Infiltration Practices	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			
Stormwater Treatment Wetlands	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			
Manufactured Treatment Devices	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			
Permeable Pavement	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			
Rainwater Harvesting and Reuse	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			
Other:	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			
Potential of increased threat of flood damage to public health, life or property	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			
Construction Plans						
Existing and proposed topography	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			
Existing and proposed stormwater management systems	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			
Catchments/Sub-basins	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			
Locations of hydrologic computation points	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			
Drainage areas and time of concentration flowpaths	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			
Stormwater management practices; specified type and surface area indicated on plan	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			
Proposed drainage and maintenance access routes and easement locations	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			
Streams, ponds, culverts, ditches, sink holes, wetlands; and the type, size, elevation, etc., of nearest upstream and downstream drainage structures	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			
Proposed channel modification locations	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			
Soil classifications and hydrologic information	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			
Existing and proposed land management/cover (including all existing structures, locations of utilities, roads, and easements)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			
Limits of disturbance clearly marked and total disturbed area labeled	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			

Signature of Applicant (Required) _____

(By signing this checklist, applicant certifies that all applicable items have been provided and are correct to best of his/her knowledge).

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Resource protection areas (e.g. headwater streams, wetlands and lakes)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			
FEMA Floodplain limits	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			
50' Waterway Buffer perpendicular from the floodway on each side in areas where a floodplain and floodway have been determined (per current City Stormwater Ordinance)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			
Development setbacks	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			
60' Waterway Buffer minimum width on all waterways classified as Exceptional Tennessee Waters or waters with unavailable parameters for siltation or habitat alteration (per new TDEC guidance)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			
30' Waterway Buffer minimum width on all waterways with available parameters or unassessed waters (per new TDEC guidance)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			
60' Waterway Buffer from each bank on all waterways on/adjacent to the construction site with drainage areas greater than 2 sq. mi. (per current City Stormwater Ordinance)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			
45' Waterway Buffer from each bank on all waterways on/adjacent to the construction site with drainage areas greater than or equal to 1 sq. mi. and less than or equal to 2 sq. mi. (per current City Stormwater Ordinance)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			
30' Waterway Buffer from each bank on all waterways on/adjacent to the construction site with drainage areas less than 1 sq. mi. (per current City Stormwater Ordinance)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			
Stormwater Control Measure buffers	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			
Building setbacks	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			
Property line setbacks	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			
Well/septic system setbacks	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			
Existing and proposed roads, buildings and other structures (impervious surfaces)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			
Existing and proposed utilities and utility easements	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			
Other existing significant natural and artificial features	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			
Drainage Computations						
Drainage map with sub-area delineations, hydrologic nodes, and summary of areas	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			
Hydrologic methodology selection and discussion	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			
Times of concentration methodology and supporting calculations	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			
Curve Numbers or Runoff Coefficients, including assumed soil moisture conditions	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			
Peak runoff rates, method used along with basis for selected method, and total runoff volumes for each sub-basin area. Summary tables and tabular output included?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			
Soil infiltration rates, if infiltration SCMs are being used	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			
Culvert, storm sewer, ditch and/or other stormwater conveyance capacities and hydraulic grade line plots for design storm event, along with methodology used	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			
Flow velocities for design storm event - ditches, storm sewers, detention outlets	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			
Adequate channel lining and energy dissipation calculations and controls (riprap, etc.)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			
Documentation of sources for all computation methods used (i.e. computer program input/output, hand calculations, etc.)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			
Selection of Appropriate SCMs and supporting water quality calculations	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			
Appropriate SCM sizing and design implementation	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			
Adequate use of pre-treatment	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			

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Adequate flow routing and SCM trains	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			
Data on the increase/decrease in rate and volume of runoff for the design storms	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			
Potential for Downstream Impacts	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			
Downstream analysis - identification of potential for deterioration of existing roadway or driveway culverts, bridges, dams, and other structures	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			
Downstream analysis - identification of potential for accelerated streambank or streambed erosion or siltation	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			
Permit Approval and Documentation						
Status of other applicable local, state and federal permits	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			
If one acre or more is disturbed a copy of the Notice of Intent (NOI) for General NPDES Permit for Stormwater Discharges from Construction Activities and storm water pollution plan should be submitted.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			
Construction stormwater discharge permit	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			
State/federal aquatic resource alteration permits	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			
Dam safety permit	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			
FEMA Applications (CLOMR, LOMR, etc.) or No-Rise/No-Impact Certification	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			
Other:	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			
Additional comments						

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