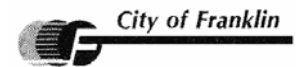


Preliminary Storm Water Checklist



The following storm water management checklist is to be submitted in order to assist in the review of the Preliminary Plat or Site Development Plan. This checklist is part of a larger checklist to be submitted after approval of the Preliminary Plat or Site Development Plan, but before final approval of the construction plans. The two checklists follow the standards set forth in the City of Franklin's Storm Water Management Ordinance. In general the tables of this Preliminary Storm Water Checklist will assist the developer in allotting enough land for required storm water management practices. This checklist and the Site Storm water Management Checklist (to be completed later) should be viewed as tools to assist the design engineer, the City of Franklin Engineering Department, and the review engineer. Specific requirements of storm water management are laid out in the Storm Water Management Ordinance. The Ordinance governs all final approvals and permits for each development.

Calculation Parameters:

†

2-year rain event(50% recurrence): 2.57 inches of rain, 24 hour duration, SCS type II distribution
100-year rain event(1% recurrence): 5.88 inches of rain, 24 hour duration, SCS type II distribution

Q_2 means the peak flow due to the 2-year rain event

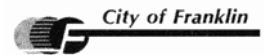
Q_{100} means the peak flow due to the 100-year rain event

†

Maximum Runoff Release Rate according to Milwaukee Metropolitan Sewage District Chapter 13 Surface Water and Stormwater Rule:

Rain Event	Maximum Release Rate
2-year	0.15 cfs/acre
100-year	0.50 cfs/acre

Preliminary Storm Water Checklist



Project Name: _____

Date Submitted: _____

Project Location : _____
(general description of nearby streets):

Watershed Name(s): _____
(From City's Stormwater Management Plan)

Subwatershed Name(s): _____
(From City's Stormwater Management Plan)

Existing area of impervious surface: _____	Acres
Area of impervious surface after project completion: _____	Acres
Difference: _____	Acres
[If difference < 0.5 acres, stop; if difference ≥ 0.5 acres, proceed with checklist.]	

Water Quantity Design

Existing Conditions

Number of outfalls: _____

Table 1 - Existing Watershed Characteristics	Watershed Name/Number (Project Specific)	Area [Acres]	Percent Impervious	Hydrologic Soil Group(s)	Runoff Curve Number (RCN)	Time of Concentration (Tc)* [min]	Peak Runoff Flow †	
							Q ₂ [cfs]	Q ₁₀₀ [cfs]
	Total Site			—		—	(flows to be added hydraulically)	
	Offsite Contribution							

Proposed Conditions

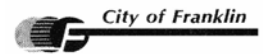
Number of outfalls: _____

Table 2 - Proposed Watershed Characteristics	Watershed Name/Number (Project Specific)	Area [Acres]	Percent Impervious	Hydrologic Soil Group(s)	Runoff Curve Number (RCN)	Time of Concentration (Tc)* [min]	Peak Runoff Flow †	
							Q ₂ [cfs]	Q ₁₀₀ [cfs]
	Total Site			—		—	(flows to be added hydraulically)	
	Offsite Contribution							

* - Include calculations for Times of Concentration

† - See Page Cover Page for rainfall depth, duration, and distribution

Preliminary Storm Water Checklist



Project Name: _____

Water Quantity Design (continued)

Summary of On-site detention

Table 3 - Pond Characteristics	Contributing Watershed		Peak Inflow [†]	
	Pond Name/Number	Names(s) (from Table 2)	Total Area to Pond [Acres]	
			Q ₂ [cfs]	Q ₁₀₀ [cfs]

Table 4 - Pond Storage Volume	Pond Name/Number	NWL [Elevation]	Area [Acres]	Top of Pond [Elevation]	Area [Acres]	Storage Volume [Ac-ft]

Table 5 - Discharge Characteristics			Peak Outflow [†]		Peak Elevation		Maximum Runoff Release Rate [‡]	
	Pond Name/Number	Discharge Pipe Size and Material	Q ₂ [cfs]	Q ₁₀₀ [cfs]	Elev ₂	Elev ₁₀₀	2-year [cfs/acre]	100-year [cfs/acre]

Describe the characteristics of the downstream stormwater feature for each detention pond.
(I.e. Is the downstream feature a wetland, ditch, storm sewer, etc. Does it have a tailwater elevation that affects the discharge of the pond):

[†] - See Page Cover Page for rainfall depth, duration, and distribution

[‡] - See Page Cover Page for Runoff Release Rate Values