SAGINAW COUNTY
STORMWATER DISCHARGE PERMIT APPLICATION

PROJECT NAME:	
Property Tax Identification #:	
Site Plan Review Date:	
Date Applied:	
Deposit Amount Submitted:	
NAME OF DEVELOPER/OWNER:	**ENGINEER/ARCHITECT:**
Contact Person:	Contact Person:
Street Address:	Street Address:
City, State, Zip:	City, State, Zip:
Telephone:	Telephone:
Email:	Email:
PROJECT LOCATION:	
Street Address:	
Name of Subdivision/Plat:	
Drainage District:	

STORMWATER DESIGN INFORMATION (*Calculations must be submitted for verification. Calculations must have clearly labeled headings, formulas, and units.)

Type of Development (Circle): *COMMERCIAL SITE, INDUSTRIAL SITE, RESIDENTIAL PLATTED, RESIDENTIAL CONDOMINIUM, OTHER*

AREA OF DEVELOPMENT (acres):	
CONTRIBUTING DRAINAGE AREA (A) (acres):	
AREA OF EXISTING IMPERVIOUS SURFACE (acres):	
AREA OF PROPOSED IMPERVIOUS SURFACE (acres):	
ALLOWABLE 10-YR DISCHARGE RATE (Q_a) (cfs):	
HEAD DIFFERENTIAL THROUGH 10-YR RESTRICTOR (ft.):	
ACTUAL 10-YR RESTRICTED DISCHARGE RATE (Q_r) (cfs):	
TOTAL VOLUME OF 10-YR STORAGE REQUIRED (V_t) (cu. ft.):	
TOTAL VOLUME OF 10-YR STORAGE PROVIDED (cu. ft.):	
10 YR DESIGN DETENTION HIGH WATER STORAGE ELEVATION (ft):	
REQUIRED WATER QUALITY VOLUME (V_{WQ}) (cu. ft.):	
PROVIDED WATER QUALITY VOLUME (cu. ft.):	
ALLOWABLE WATER QUALITY RELEASE RATE (Q_{ff}) (cfs):	
DIAMETER OF PROPOSED WATER QUALITY RESTRICTOR (in.):	
ACTUAL WATER QUALITY RESTRICTED DISCHARGE RATE (actual Q_{ff}) (cfs):	
WATER QUALITY VOLUME HIGH WATER STORAGE ELEVATION (ft.):	
WATER QUALITY HOLDING TIME (hrs):	
EMERGENCY OVERFLOW CAPACITY REQUIRED (Q) (cfs):	
EMERGENCY OVERFLOW CAPACITY PROVIDED (cfs):	
EMERGENCY OVERFLOW ELEVATION (ft):	
OUTLET SIZE AND DESIGN FLOW CAPACITY (in., cfs):	
OUTLET INVERT ELEVATION:	
LOWEST FINISHED FLOOR ELEVATION:	
Latitude and Longitude of outfall to county drain or MS4	
AUTHORIZED SIGNATURE DATE	PLEASE COMPLETE THE DRAINAGE PLAN CHECKLIST TO ASSURE ALL INFORMATION IS PRESENT FOR REVIEW

DRAINAGE PLAN CHECKLIST

In order for the Owner, Developer, or Builder to be in compliance with these guidelines he/she shall for review by the SCPWC Engineer or designee, two complete sets of the site drainage and grading plan, and two copies of the calculations for allowable discharge and on-site storage requirements, as prepared by a Registered Professional Engineer or Architect. A copy of the completed checklist will be sent with all submittals.

Each of the following items shall be included on the plan:

_____ Total acres of site.

_____ Total acres of watershed draining through the site outlet.

_____ Drainage district lines including sub-district lines contributing to individual storm sewers and rear lot drainage systems.

_____ Location of site including dimension to nearest intersection road or section line.

_____ Existing ground elevations at maximum 50' centers, including shots on perimeter of site and 50' beyond or contour lines at 1 foot intervals extending 50 feet beyond the site limits.

_____ Elevations of ground, edge of pavement, and buildings within 50' of site.

_____ Top of curb, gutter, ditch line, and centerline of road elevation at maximum 50' intervals.

_____ Existing storm catch basins, manholes, sewers, and culverts showing rim and invert elevation(s).

_____ Proposed elevations showing parking lot grades and control and building elevations.

_____ Lawn/landscape areas.

_____ Location, size, length, slope, and type of proposed storm sewer and rear lot drains.

_____ Rim and invert elevation(s) of proposed manholes and catch basins, including rear lot drainage.

_____ Location of on-site storage showing contour line for the top of storage elevation.

_____ Provide sufficient dimensions, cross-sections, profiles, tie downs, etc. to determine the location and size of proposed storm sewers and detention areas. This information will be used for verifying proposed detention volume calculations in grassed and paved areas.

_____ Location of restrictor and proposed restrictor detail(s).

_____ Location and elevation of the Emergency Overflow.

_____ Latitude and Longitude of site’s stormwater discharge point

DRAINAGE PLAN - CHECKLIST (Continued)

Each of the following items shall be included in the submitted calculations:

_____ Drainage District and impervious factor (if applicable and already established for the location of the site).

_____ Calculation of maximum allowable discharge (Obtain impervious factor from the SCPWC Engineer, if applicable).

_____ Calculation of on-site storage required.

_____ Calculation of storage volume provided.

_____ Calculation of restrictor size.

_____ Hydrologic & Hydraulic Calculations for sizing storm sewer systems, which will be maintained by a public agency.

_____ Hydrologic and Hydraulic calculations showing there will be no adverse impacts upstream or downstream of the proposed development.

Beyond the Saginaw County Public Works Commissioner Stormwater Design Requirements, the Developer must submit applications for permits with all agencies that regulate stormwater within the area of development. These may include Michigan Department of Transportation, Michigan Department of Environment, Great Lakes, and Energy, Saginaw County Public Works Commissioner (SESC), or the Saginaw County Road Commission.