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| **SAGINAW CHARTER TOWNSHIP** | | | |
| **STORM WATER DISCHARGE PERMIT APPLICATION** | | | |
|  | | | |
| **PROJECT NAME:** |  |  |  |
| **Property Tax Identification #:** |  |  |  |
| **Planning Commission Approval #:** |  |  |  |
| **Date Applied:** |  |  |  |
| **Expiration Date:** |  |  |  |
| **NAME OF DEVELOPER/OWNER:** |  | **ENGINEER/ARCHITECT:** |  |
| **Contact Person:** |  | **Contact Person:** |  |
| **Address:** |  | **Address:** |  |
| **City, State Zip:** |  | **City, State Zip:** |  |
| **Telephone:** |  | **Telephone:** |  |
| **Email:** |  | **Email:** |  |
|  |  |  |  |
| **PROJECT LOCATION:** |  |  |  |
| **Street Address:** |  |  |  |
| **Name of Subdivision / Plat:** |  |  |  |
| **Drainage District:** |  |  |  |
| **STORM WATER DESIGN INFORMATION (\*Calculations must be submitted for verification. Calculations must have clearly labeled headings, clearly labeled formulas, and clearly labeled units.)** | | | |
| **Type of Development (***Commercial Site, Industrial Site, Residential Platted, Residential Condominium or Other):* | |  |  |
| **\*AREA OF DEVELOPMENT (ACRES):** |  |  |  |
| **\*AREA OF CONTRIBUTING DRAINAGE DISTRICT (ACRES):** | |  |  |
| **\*AREA OF EXISTING IMPERVIOUS SURFACES (ACRES):** | |  |  |
| **\*AREA OF PROPOSED IMPERVIOUS SURFACES (ACRES):** | |  |  |
| **\*DESIGN IMPERVIOUS FACTOR (IF):** | |  |  |
| **\*ALLOWABLE DISCHARGE RATE (Qa) (cfs)** | |  |  |
| **\*TOTAL VOLUME OF STORAGE REQUIRED (Vt in cubic feet)** | |  |  |
| **\*TOTAL VOLUME OF STORAGE PROVIDED (cubic feet)** | |  |  |
| **STORM WATER DETENTION STORAGE ELEVATION (ft.)** | |  |  |
| **EMERGENCY OVERFLOW ELEVATION (ft.)** | |  |  |
| **LOWEST FINISHED FLOOR ELEV. or LOWEST GRADE ELEV. (ft.)** | |  |  |
| **\*HEAD DIFFERENTIAL THROUGH RESTRICTOR (ft.)** | |  |  |
| **DIAMETER(s) OF PROPOSED RESTRICTOR(s) (inches)** |  |  |  |
| **\*ACTUAL RESTRICTED DISCHARGE (cfs)** | |  |  |
| **OUTLET DRAIN SIZE AND DESIGN FLOW CAPACITY (cfs)** | |  |  |
| **OUTLET DRAIN INVERT ELEVATION (ft.)** | |  |  |
|  |  |  |  |
| **Authorized Signature Date** | |  |  |
|  |  |
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|  |  |  |  |

The Owner/Developer must provide a Complete Storm Water Permit Submittal to Saginaw Charter Township for review by the Saginaw Charter Township Engineer.

Complete the drainage checklist by checking each of the following items after you have verified they are clearly indicated on the plan:

|  |  |  |
| --- | --- | --- |
|  |  | Total acres of site. |
|  |  |  |
|  |  | Total acres of watershed draining through the site outlet. |
|  |  |  |
|  |  | Drainage District and impervious factor. Drainage district lines, including sub district lines, contributing to individual storm sewers and rear lot drainage systems, showing all land to be drained through proposed drainage system, including rear lot drainage systems. |
|  |  |
|  |  |  |
|  |  | Location of site, including dimension to nearest intersection, road, or section line. |
|  |  |  |
|  |  | Existing and proposed ground elevations at maximum 50 foot centers, including shots on perimeter of site and 50 feet beyond  or contour lines at one (1) foot intervals extending 50 feet beyond the site limits. |
|  |  |
|  |  |  |
|  |  | Existing and proposed elevations at edge of pavement or buildings within 50 feet of site. |
|  |  |  |
|  |  | Existing and proposed elevations of top of curb, gutter, ditch line, and centerline of road at maximum 50 feet intervals within 50 feet of site. |
|  |  |
|  |  |  |
|  |  | Rim and invert elevations of existing catch basins, manholes, sewers, and culverts. |
|  |  |  |
|  |  | Location of all existing and proposed utilities, water main, storm drains, sanitary sewer, and corresponding right  of-ways. |
|  |  |  |
|  |  | Horizontal control of all storm water drainage facilities and building locations. |
|  |  |  |
|  |  | Location of proposed lawn/landscape areas, paved areas, and building locations. |
|  |  |  |
|  |  | Location, size, length, slope, and type of proposed storm sewer and rear lot drains. |
|  |  |  |
|  |  | Rim and invert elevations(s) of proposed manholes and catch basins, including rear lot drainage. |
|  |  |  |
|  |  | Location of on-site storage showing contour line for top of storage elevation. |
|  |  |  |
|  |  | Provide sufficient dimensions, cross-sections, profiles, tie downs, and horizontal controls to determine the location and size of proposed storm sewers and detention/retention areas. This information will be used for verifying proposed detention/retention volume calculations in grassed and paved areas. |
|  |  |
|  |  |
|  |  |  |
|  |  | Location and elevation of emergency overflow. |
|  |  |  |
|  |  | Proposed grades for bituminous and concrete paving comply with storm water management plan. |
|  |  |  |
|  |  | Storm sewer material, sizes, and minimum grades comply with storm water management plan. |
|  |  |  |
|  |  | Rear lot drainages comply with storm water management plan. |
|  |  |  |
|  |  | Location, size, and detail of proposed restrictor. |
|  |  |  |
|  |  | Trench detail, manhole detail, catch basin detail, restrictor detail, curb detail, pavement detail, storm water detention basin detail, and topsoil and seeding detail. |
|  |  |
|  |  |  |
|  |  | Detailed hydrology and hydraulic calculations used for sizing storm sewer (can be submitted on separate form). Calculations  must show there will be no adverse impacts upstream or downstream of proposed development. |
|  |  |
|  |  |  |
|  |  | Calculations of maximum allowable discharge on-site storage, storage volume, and size of restrictor. |

Beyond Saginaw Charter Township requirements, the Developer must submit applications for permits with all agencies that regulate storm water 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, Saginaw Road Commission, and others.