

VILLAGE OF CARO
ENGINEERING DESIGN STANDARDS

APRIL 2004

DEFINITIONS
VILLAGE OF CARO
ENGINEERING DESIGN STANDARDS

For the purpose of this Ordinance, the following rules of construction apply:

- A. Words used in the present tense include the future tense; and in the singular include the plural, unless the context clearly indicates the contrary.
- B. The term “shall” is mandatory; the term “may” is permissive.
- C. The word or term not interpreted or defined by this Article shall be used with a meaning of common or standard utilization.

TERMS DEFINED

The following is a list of words and phrases defined for the purpose of their use in interpretation of the Design Standards Manual. These definitions shall apply in the interpretation, administration and enforcement of the Design Standards Manual. Words and phrases not specifically defined shall rely on their definition in the Village of Caro’s Zoning Ordinance and Master Plan.

“AASHTO” shall mean the **“American Association of State Highway and Transportation Officials”** policy manual.

“Alley” shall mean any dedicated public way affording a secondary means of access to abutting property and not intended for general traffic circulation, and not more than twenty (20) feet wide.

“American Water Works Association” or **“AWWA”** shall mean that national standards setting organization.

“Building Service Sewer (Drainage water)” shall mean any drainage water pipe extension from a building foundation drain outlet located five (5) feet outside of a building or dwelling unit to a public storm water drain.

“Building Service Sewer (Wastewater)” shall mean the sewer extension from a building drain outlet point located five (5) feet outside of a building or a dwelling unit to a point of connection with a public sanitary sewer.

“Building Service Water Supply Pipe” shall mean any water supply mains, pipes, services and/or appurtenances, except meters, that extend from a point of connection with the building water pipe located five (5) feet outside of a building or a dwelling unit to a point of connection with the public water supply system.

“Customer Wastewater Disposal Outlet” shall mean the point of connection to the public sewer.

“Customer Water Supply Outlet” shall mean either the outlet on the customer side of a “stop valve” near the public easement or public right of way (in the case of a supply for a single building) or on the customer side of a master water meter where the Village has allowed the use of a master water meter to serve special types of customers.

“Design Standards” are the applicable standards relevant to the planning, design and construction of infrastructure improvements within the Village, as adopted and contained in the Village’s Design Standards Manual.

“Development” or **“Developer’s Project”** or **“Project”** shall mean a specifically designated site being developed (or proposed for development) by a Developer.

“Ditch” or **“Drainage Swale”** shall mean an open channel used to transport water, groundwater, surface water run-off, or drainage water from any source.

“Drainage Facilities” or **“Drainage Water Facilities”** shall mean any storm sewers, lakes, ponds, streams, rivers or storm drains, including facilities designated as County Drains that receive water from lands owned by more than one Owner.

“Dwelling Unit” A dwelling unit is any house or building or portion thereof having cooking facilities which is occupied wholly as the home, residence or sleeping place of one (1) family, either permanently or transiently, and placed on a permanent foundation, but in no case shall a travel trailer, automobile chassis, tent or portable building be considered a dwelling. In case of mixed occupancy where a building is occupied in part as a dwelling unit, the part so occupied shall be deemed a dwelling unit for the purpose of this Ordinance and shall comply with the provisions thereof relative to dwellings.

“Easement” shall mean an acquired legal right of a person, governmental agency or public utility for the specific use of land owned by others.

“Engineer” is the Village’s Engineer or other Village Officer, Employee or Agent acting on behalf of the Village in the administration of the Village’s Design Standards Manual.

“Foundation Drain Service Pipe” shall mean a conveyance pipe that receives only foundation drain groundwater seepage, exclusive of directly and intentionally introduced surface water runoff.

“Land Developer” or **“Developer”** shall mean a person, firm, association, partnership, corporation or any other legal entity who intends to develop land by making various improvements to the land as described under “Site Improvements”.

“Land Development” or **“The Development of Land”** shall mean the reshaping of the land environment to provide for the elements or amenities associated with community living. Items considered as these elements or amenities include any of the items listed under the definition for “Site Improvements”.

“Lot” shall mean a parcel of land occupied or intended to be occupied by a main building or a group of such buildings and accessory buildings, or utilized for the principal use and uses accessory thereto, together with such yards and open spaces as are required under the provisions of the Zoning Ordinance. A lot may or may not be specifically designated as such on public records. Each such parcel shall also have its front line abutting a public street or a recorded easement.

“Mains” or **“Water Mains”** as applied to the water supply facilities and connections thereto, shall mean any water supply conveyance pipe larger than two (2) inches in diameter.

“Michigan Department of Environmental Quality” or **“MDEQ”** shall mean the State Agency which regulates water supply facilities in the State and certain wastewater disposal facilities in the State.

“Michigan Department of Transportation” or **“MDOT”** shall mean the State Agency which operates State roadways and Federal expressways.

“National Pollution Discharge Elimination System” or **“NPDES”** shall mean that system required by the State of Michigan to regulate treatment and discharge of storm water and/or wastewater to the waters of the State.

“Natural Outlet” shall mean any drainage water outlet, including storm drains and sewers into a watercourse, pond, ditch, lake or other body or surface or groundwater.

“Open Drain” shall mean a large open channel used to transport water, groundwater, surface water runoff or drainage water from any source.

“Parking Lot Bay” shall mean a portion of the width of a parking lot which includes a set of parking stalls on either side of a driveway provided for access to such parking stalls.

“Parking Lot” shall mean a designated area used primarily for the off-street parking of motor vehicles.

“Person” shall mean any individual, firm, company, association, society, corporation, governmental agency (including school district), or other legal entity.

“Plat” shall mean a map or chart of a subdivision of land as defined in Act No. 288 of Michigan Public Acts of 1967, as amended.

“Plot Plan” shall mean a scaled topographic drawing of existing and proposed modifications to land utilized for or zoned for single and duplex residential dwelling.

“Preliminary Subdivision Plan” shall mean a preliminary plat showing the salient features of a proposed subdivision of land submitted to an approving authority for purposes of preliminary consideration, as defined in Act No. 288 of Michigan Public Acts of 1967 as amended.

“Public Sanitary Sewer” shall mean a sanitary sewer owned and operated by a governmental agency intended to be located in public easements or public right of way that collect, or is intended to collect wastewater from more than one user or premises and that is required to receive the approval and issuance of a construction permit from the Municipal Wastewater Control Section of the MDEQ.

“Public Sewer” or **“Public Drain”** shall mean a common sewer or drain that serves more than one user or premises and is controlled by the Village or another governmental agency.

“Public Utility Company” or **“Utility Company”** shall mean a legally constituted firm, corporation or agency (other than the Village or a County Agency acting under a contract with the Village) that operates under a franchise or agreement approved by the Village for the purpose of installing and operating public utilities, including, but not limited to, gas piping, electric or telephone wiring (underground or overhead), oil piping, television cable, water supply, transmission mains, sanitary sewer interceptors, and/or drainage facilities. The

Detroit Water and Sewer Department (DWSD) is a “Public Utility Company” under this definition.

“**Public Water Main**” shall mean a main, existing or proposed, in public easements or public rights of way that is intended to serve more than one user or premises and that is required to receive the approval and issuance of a construction permit from the Municipal Water Supply Section of the Michigan Department of Environmental Quality. The service pipe extending from a public water main to a “Customer Water Supply Outlet” shall also be considered “Public”.

“**Right of Way**” or “**ROW**” shall mean land dedicated, reserved, used or to be used for a street, alley, walkway or other public purposes.

“**Sanitary Sewer**” or “**Wastewater Sewer**” shall mean a sewer, together with appurtenances, that carries liquid and water carried wastes from residences, commercial buildings, industrial plants and institutions, together with minor quantities of ground, storm and surface waters that are not admitted intentionally.

“**Services**” as applied to the water supply facilities and connections thereto, shall mean any water supply conveyance pipe outside of a building.

“**Sewage Force Main**” or “**Force Main**” shall mean a wastewater conveyance pipe which carries wastewater under pressure.

“**Sewer**” shall mean a pipe or conduit that carries wastewater or drainage water.

“**Sight Distance**” shall mean the unobstructed straight line length of view from a driver’s eye height to an object height.

“**Site Improvements**” or “**Improvements**” shall mean such operations, acts of construction or changes affecting land that increases the value, utility or habitability of the site and including, but not limited to, site grading; drainage water sewers, culverts or drains; sanitary sewers; wastewater disposal facilities; water supply piping; water supply facilities; gas piping; oil piping; television cable; electric power supply wiring; telephone wiring; roadway surfacing or paving; parking lot paving; driveways; bridges; lakes, ponds, or lagoons; sidewalks; landscape walls and fences, and/or other appropriate appurtenant items.

“**Site Plan**” shall mean the plan required under the Village’s Zoning Ordinance for “Site Plan Review” for all projects other than a land subdivision plat.

“**South Central Michigan Construction Code Inspection, Inc.**” or “**SCMCCI**” shall mean that agency responsible for Soil Erosion and Sedimentation Control Permits.

“**Stop Valve**” or “**Curb Stop**” shall mean the valve placed on a building service water supply pipe that is located at a “Customer Water Supply Outlet”.

“**Stormwater Drain**” or “**Storm Drain**” or “**Storm Sewer**” shall mean a watercourse or a sewer intended for the conveyance of water, groundwater, surface water runoff, drainage water or other water from any source, exclusive of intentionally admitted wastewater.

“**Stormwater Inlet Structure**” shall mean a structure designed and constructed to intentionally admit surface water runoff, drainage water or other water from any source, exclusive of intentionally admitted wastewater.

“**Street**” shall mean any street, avenue, place, way, drive, lane, boulevard, highway, road or other right of way that provides for vehicular or pedestrian access to abutting properties by

the general public; and includes the land between the street right of way lines whether improved or unimproved. An alley is not a street.

1. **“Street, public”** shall mean a right of way that provides for vehicular and pedestrian access to abutting properties that is deeded or dedicated to the Village or other governmental agency authorized to own road right of way and/or operate vehicular transportation facilities.
2. **“Street, private”** shall mean a right of way or easement that provides for vehicular and pedestrian access to abutting properties for the general public, but is not deeded or dedicated to a governmental agency for ownership, operation or maintenance. The landowners of the property served by the private street are responsible for its maintenance.
3. **“Street, major”** shall mean streets meeting one or more of the following:
 - a. Streets that provide extensions to State Trunk Lines or County Primary Roads in facilitating through traffic.
 - b. Streets that provide an integral network to service the traffic demands created by industrial, commercial, educational or other traffic generating centers.
 - c. Streets that provide for the circulation of traffic and around the central business district.
 - d. Streets that are designated truck routes.
 - e. Streets that collect traffic from an area served by an extensive network of local streets.
4. **“Street, local”** shall mean streets not meeting any of the criteria from major streets.

“Surface Water Runoff” or **“Stormwater”** shall mean that part of rainfall or melting snowfall that reaches the stormwater drain as runoff from natural land surfaces, building roofs or pavements.

“Trunk Storm Sewer” shall mean a public storm sewer having a diameter of twenty-four (24) inches or larger.

“Tuscola County Drain Commissioner” or **“TCDC”** shall mean that person or agency responsible for drainage improvements under the jurisdiction of the State Drain Act, PA 40 of 1956, as amended.

“Tuscola County Road Commission” or **“TCRC”** shall mean that agency responsible for the construction, operation and maintenance of county highways, roads and streets.

“Underdrain Pipe” shall mean a geotextile wrapped perforated pipe installed underground for the specific purpose of lowering a high groundwater condition or draining a granular subbase by receiving groundwater seepage and conveying it to a stormwater drain. Farm Drain Tile is not Underdrain Pipe.

“Unpolluted Water” or **“Drainage Water”** is water of a quality equal to or better than the effluent criteria currently in effect, as specified by the MDEQ, or water that would not cause violation of receiving water quality standards and would not be benefited by discharge to the Village sanitary sewers and wastewater disposal system.

“User” shall mean the owner or occupant of any premises connected with and/or using any of the facilities operated by the Department.

“Utility Company’s Contractor” shall mean a construction contractor engaged by the utility company to install public utilities for the utility company; or, in the case where the utility company has a construction division that installs its own utilities, shall mean the utility company.

“Village” shall mean the Village of Caro (Michigan) and its Officers, Employees and Agents, including, but not limited to, the Village Council, Village Planning Commission, Village Staff, Village Attorney, Village Engineer, etc.

“Wastewater Treatment Works” or **“Sewage Treatment Plant”** shall mean facilities for treating wastewater, industrial wastes and sludge.

“Wastewater” or **“Sewage”** shall mean the spent water of a community, including liquid and water-carried wastes from residences, commercial buildings, industrial plants and institutions, together with any groundwater, surface water and storm water that may be present.

“Watercourse” shall mean a natural or artificial open channel for the passage of water either continuously or intermittently.