

APPENDIX "F"

Lapeer Township Digital Submission Requirement

Introduction

The Lapeer Township digital submission requirements utilize the digital mapping products of public and private organizations to facilitate the continued development of the Township's digital records. The digital records increase operating efficiency by improving access to information and reducing redundant processes. Furthermore, the intent of this requirement is to:

Utilize available digital parcel and site development data

Provide a source of digital information that can be utilized by the Lapeer Township, other government agencies, property owners and developers

Provide minimum requirements for the submission of digital data

Be consistent with GIS automation and maintenance procedures for the Lapeer Township

This requirement applies to subdivisions, condominiums and site developments. Property surveys are not specifically referenced in these requirements, but are encouraged and accepted by the Township.

If an applicant contends compliance with these requirements creates a hardship, a waiver may be submitted to the Township Clerk. The Board of Appeals will render the petition within ten (10) days.

Submission Requirements

The Lapeer Township will make available all information for the Global Positioning Satellite (GPS) control points established for the development of the Township's Geographic Information System (GIS). The coordinate values for the control points are in the Michigan State Plane Coordinate System, South Zone as defined in Public Act 9 of 1964, as amended. In the absence of available Township GPS controls, the applicant shall utilize any GPS controls available from the County Remonumentation Program. If no GPS control is available at the time of survey, the applicant shall utilize a minimum of two (2) section corner monuments, to establish the site location.

The applicant preparing documents subject to these requirements, will reference the projects boundary to at least two of the Township's GIS control points.

Data Formats

In addition to the hardcopy "as-built" or record plan mylar information currently being submitted as part of the recordation process, the applicant must provide a digital file in one of the following formats:

.DWG (AutoCAD Drawing File) .DXF
(Drawing Interchange Format)

Digital files must be mapped to scale and can be submitted on 3.5" floppy disk, Zip disk or CDROM.

Data Layering Requirements

To ease data interpretation and maintain the accuracy of each digital submission, file formats and structures have been standardized. The following table provides a minimum guideline for each digital submission.

Layer Name	Description	Color	Linetype '
Boundary	PlaUCondo/Site boundary lines	7 (white)	Phantom2
Buildings	Building outlines	50	Continuous
Easmt	Easement lines	181	Hidden
Easmt txt	Easement annotation	181	Continuous
Elev _ existi ng	Existing elevations	6 (magenta)	Continuous
Elev _as-built	As-built elevations	6 (magenta)	Continuous
Elev inverts	Invert elevations	6 (magenta)	Continuous
Elev_rims	Rim elevations	6 (magenta)	Continuous
Ex contours	Existing contours	1 (red)*	Continuous
Ex san -	Existing sanitary sewer	36	Ldashed
Ex stm	Existing storm sewer	90	Hidden
Ex _ stm _ det-pond	Existing storm detention ponds	90	Continuous
Ex wm	Existing water mains	170	Dashed
Flood_plains	Flood plains	5 (blue)	Continuous
Lotlines	Platted lot lines	254	Continuous
Lot dim	Lot dimensions	250	Continuous
Lot no	Lot numbers	5 (blue)	Continuous
Misc anno	Miscellaneous annotation	7 (white)	Continuous

Pavement	Pavement	4 (cyan)	Continuous
ROW	Right-of-way lines	254	Continuous
ROW txt	Right-of-way names	254	Continuous
Sec tie	Section tie data	7 (white)	Continuous

*Note: Contours 1-4 ft. & 6-9 ft. should be color 6 (magenta)

LAYER	DEFINITION
Boundary:	The geographic extent of the plat, condominium or site boundary. All boundary features must be represented as a single closed polyline. This layer should contain only polyline entities.
Buildings:	The geographic extent of existing buildings. All building features must be represented as a single line or closed polyline. This layer should contain only lines or polyline entities.
Easmt:	The geographic extent of dedicated easements. This layer should contain only single lines, arcs or polyline entities.
Easmt_txt:	The annotation related to dedicated easements. This layer should contain only text entities.
Elev_existing:	Topographical elevations undisturbed by the proposed construction. Items such as adjacent building elevations, existing pavement, grades, etc, undisturbed by the proposed construction. This layer should contain only text entities.
Elev as-built:	As-built elevation data, such as as-built finish floor, finish grade, top of curb, sidewalk or other as-built grades required by the Lapeer Township ordinances (excluding underground infrastructure). This layer should contain only text entities.
Elev inverts:	As-built elevation data for all required inverts to be as-built per the Lapeer Township ordinances. As-built inverts such as, sanitary and storm sewer manholes and outlets shall be included. This layer should contain only text entities.
Elev rims:	As-built elevation data for all required rims to be as-built per the Lapeer Township ordinances. As-built inverts such as, sanitary and storm sewer manholes and outlets and water main gatewells shall be included. This layer should contain only text entities.
Ex contours:	The geographic extent of existing contours. All contour features must be represented as a single line or closed polyline. This layer should contain only lines, polyline or text entities.

Ex san:	The geographic extent of existing sanitary sewer and related features including annotation. This layer should contain only single lines, points, arcs, polyline or text entities.
Ex stm:	The geographic extent of existing storm sewer and related features including annotation. This layer should contain only single lines, points, arcs, polyline or text entities.
Ex_stm_det-pond:	The geographic extent of storm detention ponds. All boundary features must be represented as a single line or closed polyline. This layer should contain only lines or polyline entities.
Ex wm:	The geographic extent of existing water mains and related features including annotation. This layer should contain only single lines, points, arcs, polyline or text entities.
Flood_plains:	The geographic extent of existing flood plains. All flood plain features must be represented as a single line or closed polyline. This layer should contain only lines or polyline entities.
Lotlines:	The geographic extent of the platted lot or condominium site. This layer should contain only single lines, arcs or polyline entities.
Lot dim:	The platted lot, condominium or site dimensions. Bearings do not need to be shown. This layer should contain only text entities.
Lot no:	The platted lot numbers or condominium site unit number. This layer should contain only text entities.
Mise anno:	The miscellaneous annotation not related to any of the other described layers listed above. This layer should contain only text entities.
Pavement:	The geographic extent of the edge of pavement, shoulders, curb or back of curb. This layer should contain only single lines, arcs or polyline entities.
ROW:	The geographic extent of the dedicated right-of-way in a plat, condominium or site. This layer should contain only single lines, arcs or polyline entities.
ROW txt:	The name of the dedicated right-of-way in a plat, condominium or site. This layer should contain only text entities.
See tie:	The Public Land Survey System (PLSS) corners, private claims and section tie traverse information used to reference point of beginning for each plat, condominium or site. Standard Land Corner Recordation Certificate (LCRC) corner names should be noted. This layer can contain single lines, arcs, polyline or text entities.

Please note in cases where individual layers are coincidental, the following hierarchy should be used to automate the data file:

Boundary
ROW
Lotlines
Easements

All data submitted digitally must be identical to the information submitted on the mylar hardcopy.

Additional development information (ie, sidewalks, fences or lighting) will be accepted, but should be placed on clearly identified layers. Additional layer specifications will be provided to the applicant, if any additional information will be provided to the Township.

All other data not described above, such as north arrow, scale, legend, and title block shall be placed on layer Misc_anno.

Compliance with these requirements are required for final approval unless a waiver is granted by the Township.

Issue Date: May 11, 2006