

MILWAUKEE COUNTY
AUTOMATED MAPPING AND
LAND INFORMATION SYSTEM

c/o Department of
Transportation and Public Works
2711 West Wells Street, Room 427
Milwaukee, Wisconsin 53208-3509
Telephone (414) 278-2176

MEMORANDUM

TO: «prefix» «first_name» «middle_initial» «last_name» «LnameSuffix» «Suffix»
«title»
«organization»
«address1»
«address2»
«city», «state». «zipcode»

FROM: William C. Shaw, MCAMLIS Project Manager

DATE: December 11, 2007

SUBJECT: MCAMLIS 73rd Steering Committee Meeting Materials

Enclosed please find a set of materials that the steering committee will take up at it's scheduled September 25th meeting.

- I. Meeting Agenda **(included)**
- II. Meeting Minutes of the 72nd Steering Committee meeting held September 25th, 2007 **(included)**
- III. Reports
 - A. Report materials on the Milwaukee County street address and cadastral map maintenance operations. **(included)**
 - B. Report materials on City of Milwaukee cadastral map maintenance operations **(included)**
 - C. Report materials related to the MCAMLIS Enterprise Address Project. **(included)**
 - D. Report materials on the status of 2007 License Agreements executed on behalf of the Utilities Subcommittee. **(included)**
 - E. Report materials on the status of the Milwaukee County 2007 Digital Orthophotography Project. **(included)**
 - F. Report materials on the status of the Regional Water Study. **(included)**
 - G. Report materials on the status of MCAMLIS Floodland Mapping Project. **(included)**
 - H. Report materials on the MCAMLIS 2008 Adopted Budget status. **(included)**

- I. Report materials on the MCAMLIS Fiscal status. **(included)**
- J. Report materials on the status of the Diggers’s Hotline implementation activities. **(included)**

- V. Old Business
 - A. Materials related to MCAMLIS staff recommendation to the Steering Committee regarding the acquisition of Oblique Imagery products. **(included)**

- VI. New Business
 - A. Materials related to a 2008 agreement for MCAMLIS Project Management and Map Maintenance Services between MCAMLIS and Milwaukee County DTPW. **(included)**
 - B. Materials related to a 2008 agreement for MCAMLIS Fiscal Oversight between MCAMLIS and Milwaukee County DAS. **(included)**
 - C. Materials related to a 2008 agreement for Milwaukee County Surveyor Services between MCAMLIS and SEWRPC. **(included)**
 - D. Materials related to a 2008 agreement for Map Maintenance Services between MCAMLIS and the City of Milwaukee. **(included)**
 - E. Materials related to a MCAMLIS Staff Recommendation regarding Commercial use of Copyright Protected Parcel Data. **(included)**

* * * * *

**MILWAUKEE COUNTY AUTOMATED MAPPING
AND LAND INFORMATION SYSTEM**

Seventy-Third Steering Committee Meeting

AGENDA

Date: December 18th, 2007
Time: 9:00 a.m.
Place: Milwaukee County
City Campus, Room 349
2711 W Wells St.
Milwaukee, WI. 53208

- I. Roll Call
- II. Meeting Minutes
 - Consideration of the minutes of the 72nd Steering Committee meeting held September 25th, 2007.
- III. Reports
 - A. Report by Milwaukee County Register of Deeds staff on MCAMLIS street address and cadastral map maintenance operations.
 - B. Report by City of Milwaukee staff on MCAMLIS cadastral map maintenance operations.
 - C. Report by MCAMLIS staff on the status of the Enterprise Address Project.
 - D. Report by MCAMLIS staff on the status of License Agreements executed on behalf of the Utilities Subcommittee.
 - E. Report by SEWRPC staff on the status of the Milwaukee County 2007 National Digital Orthophoto Program (NDOP) project.
 - F. Report by SEWRPC staff on the status of the Regional Water Study.
 - G. Report by SEWRPC staff on the status of MCAMLIS Floodland Mapping Project.
 - H. Report by Milwaukee County DAS staff on MCAMLIS 2008 Adopted Budget status.
 - I. Report by Milwaukee County DAS staff on MCAMLIS Fiscal status.
 - J. Report by MCAMLIS staff on the status of the Diggers's Hotline implementation activities.
- IV. Old Business
 - A. Consideration of MCAMLIS staff recommendation to the Steering Committee regarding the acquisition of Oblique Image products.
- V. New Business

- A. Consideration of a 2008 agreement for MCAMLIS Project Management and Map Maintenance Services between MCAMLIS and Milwaukee County DTPW.
 - B. Consideration of a 2008 agreement for MCAMLIS Fiscal Oversight between MCAMLIS and Milwaukee County DAS.
 - C. Consideration of a 2008 agreement for Milwaukee County Surveyor Services between MCAMLIS and SEWRPC.
 - D. Consideration of a 2008 agreement for Map Maintenance Services between MCAMLIS and the City of Milwaukee.
 - E. Consideration of a MCAMLIS Staff Recommendation regarding Commercial use of Copyright Protected Parcel Data.
 - F. The appointment of a nominating committee to recommend a slate of officers to the Steering Committee at it's next regular meeting.
- VI. Correspondence
 - VII. Date, time, and place of next meeting
 - VIII. Adjournment

MINUTES OF THE 72nd MEETING
Milwaukee County Automated Mapping and Land Information System
Steering Committee

Date: Tuesday, September 25, 2007
Time: 9:00a.m.
Place: Milwaukee County City Campus
2711 W. Wells Street
Room 349
Milwaukee, WI 53208

Members Present

Kurt W. Bauer, Chairman	Milwaukee County Surveyor
Donald R. Nehmer, Vice Chairman	Capital Program Business Manager, Milwaukee Metropolitan Sewerage District
John L. La Fave, LIO	Milwaukee County Register of Deeds
Nancy A. Olson	Enterprise Information Manager, Information and Technology Management Division, City of Milwaukee
John C. Place	Manager Maps and Records, We Energies
Gregory G. High	Director, Architecture, engineering and Environmental Services Division, Milwaukee County Department of Transportation and Public Works, representing the Director, Milwaukee County Department of Transportation and Public Works
John M. Bennett	City engineer, City of Franklin, representing the Intergovernmental Coordinating Council of Milwaukee County
Alexandra Kotze	Department of Administration Services, representing Rob Henken, Director, Milwaukee County Department of Administrative Services

Members Absent

Donald L. Coe	Supervisor, Facilities Location, Customer Operations, We Energies
Kevin S. Anderson	Design Area Manager, Milwaukee Metro North AT&T Wisconsin

Guest and Staff Present

Marcia Lindholm	City of Milwaukee, DPW Division of Infrastructure Services
Gary E. Drent	Fiscal and Budget Manager, Milwaukee County, AE&ES-DTPW

William C. Shaw	MCAMLIS Project Manager, Milwaukee County DTPW
Tammy Bronson	City of Milwaukee, Information and Technology Management Division
Reinhard G. (Hardy) Meihnsner	Geo Decisions
Kathleen Bach	Milwaukee County, Register of Deeds

I. ROLL CALL

The Seventy-Second meeting of the Milwaukee County Automated Mapping and Land Information System (MCAMLIS) Steering Committee was called to order by Chairman Bauer at 9:00 a.m. Roll Call was taken by circulating an attendance signature sheet and a quorum was declared present.

II. MEETING MINUTES

II(a). CONSIDERATION OF THE MINUTES OF THE 71ST STEERING COMMITTEE MEETING HELD JUNE 5TH, 2007

Bauer: noted that a copy of the minutes was provided with the meeting materials and asked if there were any corrections required?

Motion: Bennett moved to accept the minutes

Second: High, Motion carried unanimous

III. REPORTS

III(a) REPORT BY MILWAUKEE COUNTY REGISTER OF DEEDS STAFF ON MCAMLIS STREET ADDRESS AND CADASTRAL MAP MAINTENANCE OPERATIONS

Bach: referred the Committee to the status map included with the meeting materials, reporting that she is currently working on August documents.

Bauer: stated for the minutes, that the report was accepted by consensus and will be placed on file.

III(b) REPORT BY CITY OF MILWAUKEE STAFF ON MCAMLIS CADASTRAL MAP MAINTENANCE OPERATIONS

Bronson: Cadastral data for the City of Milwaukee is current through 2006 parcel in the northwestern corner through quarter section 421.

Bauer: stated for the minutes, that the report was accepted by consensus and will be placed on file.

III(c) REPORT BY MCAMLIS STAFF ON THE STATUS OF THE ENTERPRISE ADDRESS PROJECT

Shaw: directed the Committee to the staff memorandum (included with the meeting materials)

Bauer: stated for the minutes, that the report was accepted by consensus and will be placed on file.

III(d) REPORT BY MCAMLIS STAFF ON STATE OF WISCONSIN LAND INFORMATION PROGRAM WIGICC SUMMIT MEETING

Shaw: stated that the summit had not produced minutes and would like to delay discussion until more information was made available.

Bauer: stated for the minutes, that the report was accepted by consensus and will be placed on file.

III(e) REPORT BY SEWRPC STAFF ON THE MCAMLIS TOPOGRAPHIC MAPPING PROJECT

Bauer: stated that the committee had received a written report included with the meeting materials. Further noting that about \$30,000 is being withheld until the Marquette Interchange is completed and again recommending extending the area to include the Canal Street project and perhaps the Oak Creek Power Plant site.

Shaw: stated that digital copies of the MCAMLIS Topographic data have been distributed to each Milwaukee County municipality.

Bauer: stated for the minutes, that the report was accepted by consensus and will be placed on file.

III(f) REPORT BY SEWRPC STAFF ON THE STATUS OF THE REGIONAL WATER STUDY

Bauer: stated that the committee had received a written report included with the meeting materials.

Bauer: stated for the minutes, that the report was accepted by consensus and will be placed on file.

III(g) REPORT BY MILWAUKEE COUNTY DAS STAFF ON MCAMLIS FISCAL STATUS

Kotze: provided the Committee with a copy of the current financial report and reviewed it's contents.

Bauer: requested further explanation regarding balances shown for \$1 and \$4 fee sections described in the materials.

Kotze: clarified that the balances shown included both restricted and unrestricted funds and explained that unrestricted balances were available for the Committee to allocate to new projects in both the \$1 and \$4 fee sections of the report.

Bauer: further inquired as to the impact, on the MCAMLIS Budget, of sub-prime loan concerns involved with the wider financial markets.

LaFave: indicated that overall 'filed document' recordings were down 10-20% and that the current budget reflected this fact. Further noting that he was satisfied with the budgeted amounts included in the report.

Bauer: stated for the minutes, that the report was accepted by consensus and will be placed on file.

III(h) REPORT BY MCAMLIS STAFF ON THE STATUS OF THE DIGGER'S HOTLINE IMPLEMENTATION ACTIVITIES

Shaw: provided the Committee with a copy of the project status report. He further noted progress regarding information provided the ICC at their meeting conducted on June 11th and that a formal letter request for consideration of the draft ordinance was sent to elected officials in Milwaukee County in late August. Adding that these efforts had resulted in a number of calls from municipal engineer and legal staff regarding how various municipalities may want to proceed.

Meishner: further added his comments regarding the statewide effort underway and expected that he would be following up with numerous counties through October.

Bauer: stated for the minutes, that the report was accepted by consensus and will be placed on file.

IV. OLD BUSINESS

IV(a) CONSIDERATION OF A REGISTER OF DEEDS REQUEST FOR NEW AUTHORIZAITON FOR IMPROVEMENTS TO COMPUTERIZED SYSTEMS

LaFave: provided the Committee with a written request and presented further narrative description of the projects that would be undertaken.

Kotze: provided a fiscal note in reference to the written request of the Register of Deeds.

Motion: Olson, moved to approve

Bennett: Second, carried unanimous

IV(b) CONSIDERATION OF THE CITY OF MILWAUKEE ASSESSOR'S STAFF REPORT ON PICTOMETRY

Olson: provided a report to the Committee outlining the history of prior requests and recommendations to MCAMLIS by MCAMLIS Staff, the ICC and the City of Milwaukee regarding oblique imagery technology including a description of recent work performed in the City Assessor's Office utilizing a licensed copy of Pictometry. Further noting that the City's Assessor's Office has established that there were significant savings and other benefits afforded the use of Pictometry when put to use in it's operations. A discussion followed the presentation and Ms. Olson was asked to further clarify statements regarding the discovery of property made possible through the use of this technology.

Secretary's Note: Refer to the attached letter from Mary Reavey - City of Milwaukee Assessment Commissioner, to Nancy Olson - Enterprise Information Manager, regarding the additional land discovery using a Pictometry produced image in the field during a routine appraisal follow-up.

Bennett: added that he had been made aware of oblique imagery use to assist in delineating drainage ways that would not otherwise be located using traditional

orthophotography and contour information. Noting that this is an area where it is successfully being applied to engineering practice.

Shaw: noted that the report provided by City of Milwaukee staff was requested by the Committee as part of an earlier MCAMLIS Staff recommendation to have the City evaluate the utility of Pictometry for use by assessors. Further stating that, as a result of the City of Milwaukee Assessor's Office findings, the Committee may want to request that MCAMLIS staff prepare, for its consideration, a report that would evaluate and recommend a more comprehensive approach to acquiring oblique imagery.

Motion: LaFave, moved that MCAMLIS Staff prepare a report and recommendation to the Steering Committee regarding the need for this technology . The report should include consideration of alternative technologies along with costs and a recommendation as to how to proceed. Included with the recommendation would be at least one alternative having MCAMLIS provide both the license and the product for the entire county.

Bennett Second, carried unanimous

LaFave: remarked that it may be valuable to arrange a demonstration of the various products if possible.

Secretary's Note: MCAMLIS Staff arranged for a demonstration of vendor products on 11/8/2007. The demonstration was conducted at the City of Franklin. An invitation was extended to all Milwaukee County governmental units and members of the MCAMLIS Steering Committee.

V. NEW BUSINESS

V(a) CONSIDERATION OF A MCAMLIS STAFF RECOMMENDATION REGARDING A NORTH SHORE FIRE DEPARTMENT REQUEST FOR MCAMLIS PROJECT ASSISTANCE

Shaw: stated that the committee had received a written report included with the meeting materials. He then provided a narrative description regarding a request for assistance in the development of an Address Atlas and Wall Map product for use by the North Shore Fire Department.

Bennett: added that the City of Franklin has developed a similar product and that he would recommend that staff review Franklin's product before finalizing development. He added that he considered this a good project for MCAMLIS to undertake and felt it was important for MCAMLIS data to become more integrated into protective services throughout the county.

Kotze: provided a fiscal note to Committee

Motion: Bennett, Accept recommendation and to proceed with the project

LaFave, second carried unanimous

V(b) BRIEFING MMSD STAFF ON THE STATUS OF REGIONAL GIS INITIATIVES UNDERWAY AT THE DISTRICT

Nehmer: provided a presentation to the Committee outlining efforts being conducted at the District regarding GIS and related activities.

VI. CORRESPONDENCE

VI(a) WILLIAM SHAW, MCAMLIS PROJECT MANAGER, LETTER TO MS. KAREN JANDER, HEAD, SERIALS DEPARTMENT, UNIVERSITY OF WISCONSIN-MILWAUKEE LIBRARIES

Shaw: introduced a letter provided in the materials to Committee

VI(b) WILLIAM SHAW, MCAMLIS PROJECT MANAGER, LETTER TO MS. PENNY SHEUERMAN, MILWAUKEE SEVEN RESOURCE CENTER

Shaw: introduced a letter provided in the materials to Committee

Bauer: both letters will be placed on file with the minutes.

VII. DATE, TIME AND PLACE OF NEXT MEETING

Shaw: December 18 @ 9:00am, City Campus Room 349

VIII. ADJOURNMENT

Motion Bennett

Second, LaFave, motion carried unanimous



ASSESSOR'S OFFICE

Mayor Tom Barrett

Mary P. Reavey
Assessment CommissionerPeter C. Weissenfluh
Chief Assessor

October 11, 2007

Memo to: Nancy Olson *Nancy*
From: Mary Reavey *M Reavey*
Subject: Info from Pictometry

Hi Nancy,

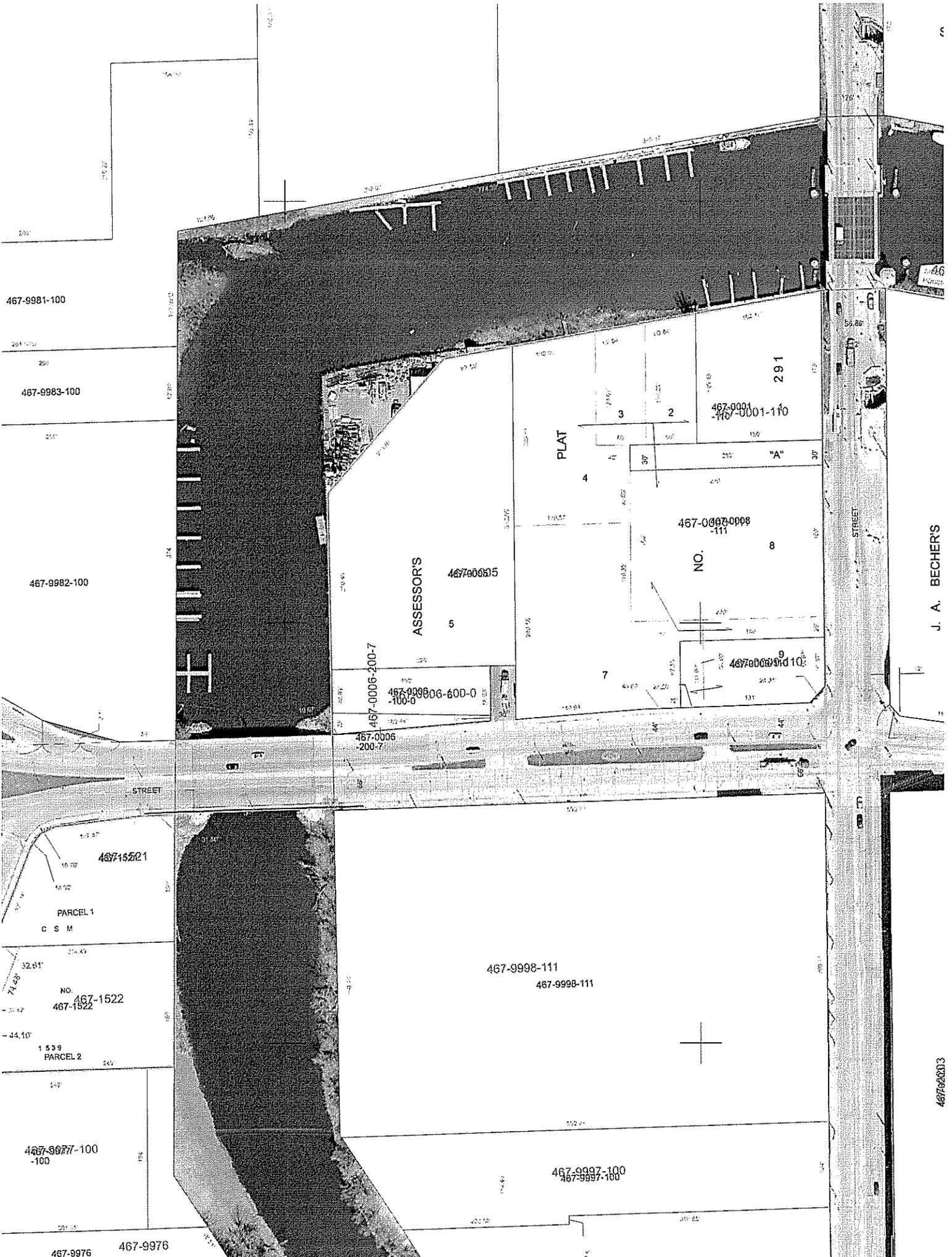
Attached is the image showing the land that we discovered. I found out from the appraiser that there is an old law that allows a property owner abutting the river to fill the river to a bulk-head line without permit. This land was filled in the 70's. The appraiser was visiting the property to review a demolition permit and to verify that buildings had been raised. Because she took the Pictometry image with her it became obvious that the land size had been expanded.

Hope this helps. Let me know if you have any questions.

Room 507, City Hall, 200 East Wells Street, Milwaukee, Wisconsin 53202
www.milwaukee.gov/assessor

Phone: (414) 286-3651 / Fax: (414) 286-8447 / TDD: (414) 286-8039

Member International Association of Assessing Officers and the National Tax Association



467-9981-100

467-9983-100

467-9982-100

467-0006-200-7

ASSESSOR'S
467000005
5

467-0006-600-0
-100-0

PLAT

291

467-0001-110
467-0001-110

467-0007-0008
-111

NO.
8

467000000000010
10

STREET

46715221

PARCEL 1
C S M

NO.
467-1522
467-1522

467-9998-111
467-9998-111

467-9977-100
-100

467-9997-100
467-9997-100

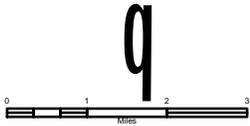
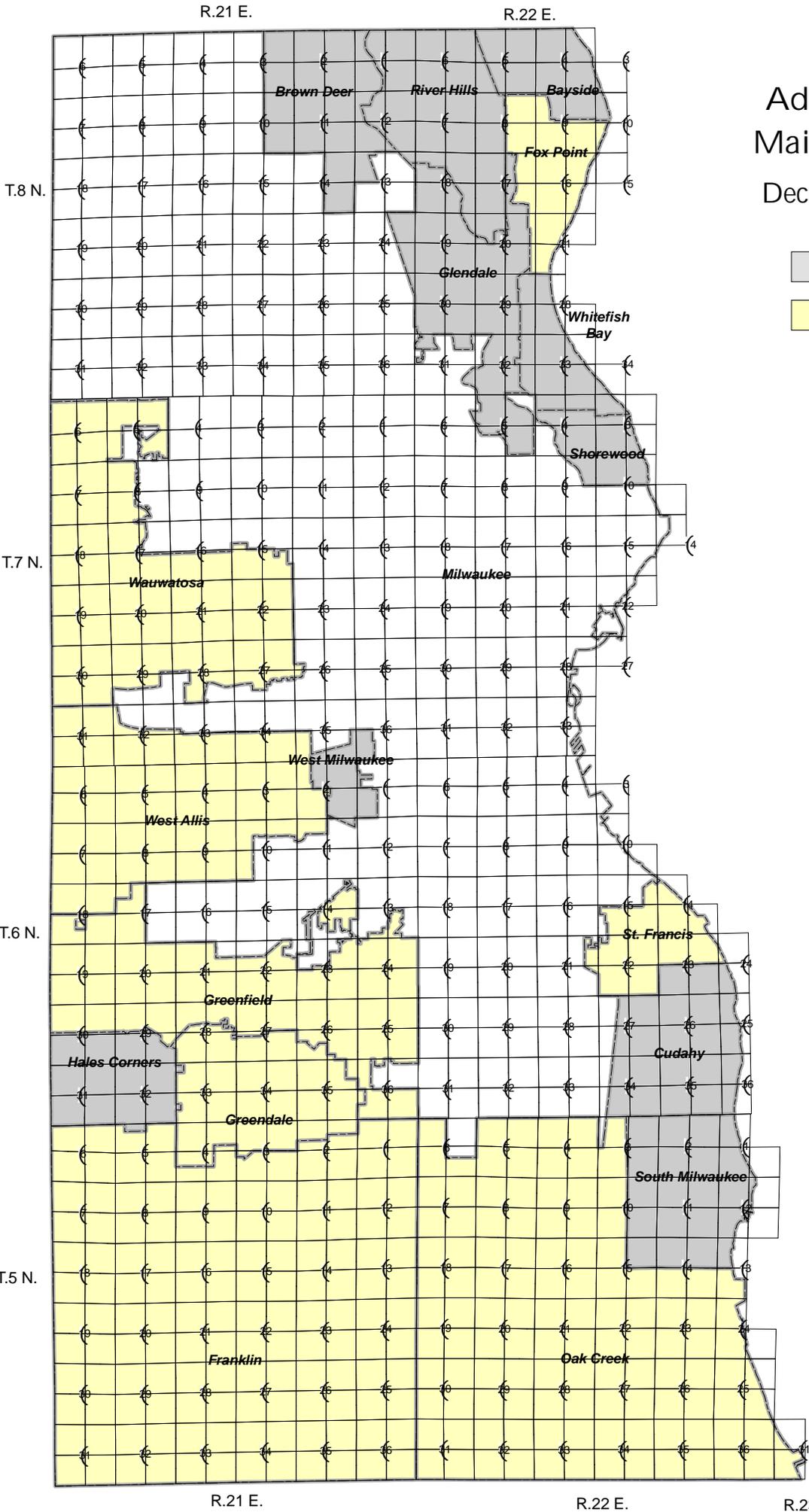
467-9976 467-9976

J. A. BECHERS

46700003

MCAMLIS Address Database Maintenance Status December 2007 Status

- January 1, 2007
- December 1, 2007



Source: MCAMLIS Project Manager

R.21 E.

R.22 E.

MCAMLIS Cadastral Database Maintenance Status December 2007 Status

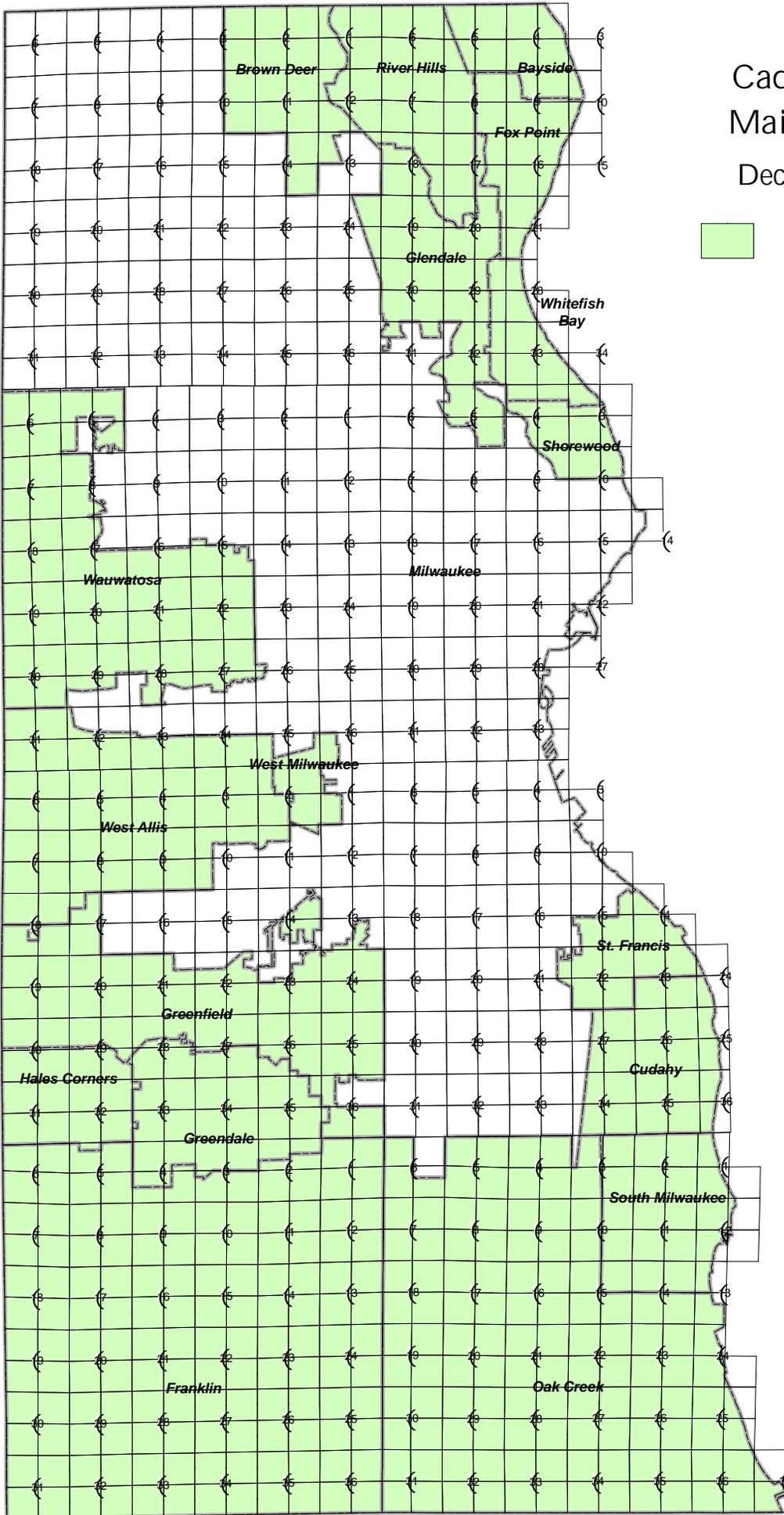
 Current as of November 1, 2007

T.8 N.

T.7 N.

T.6 N.

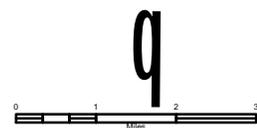
T.5 N.



R.21 E.

R.22 E.

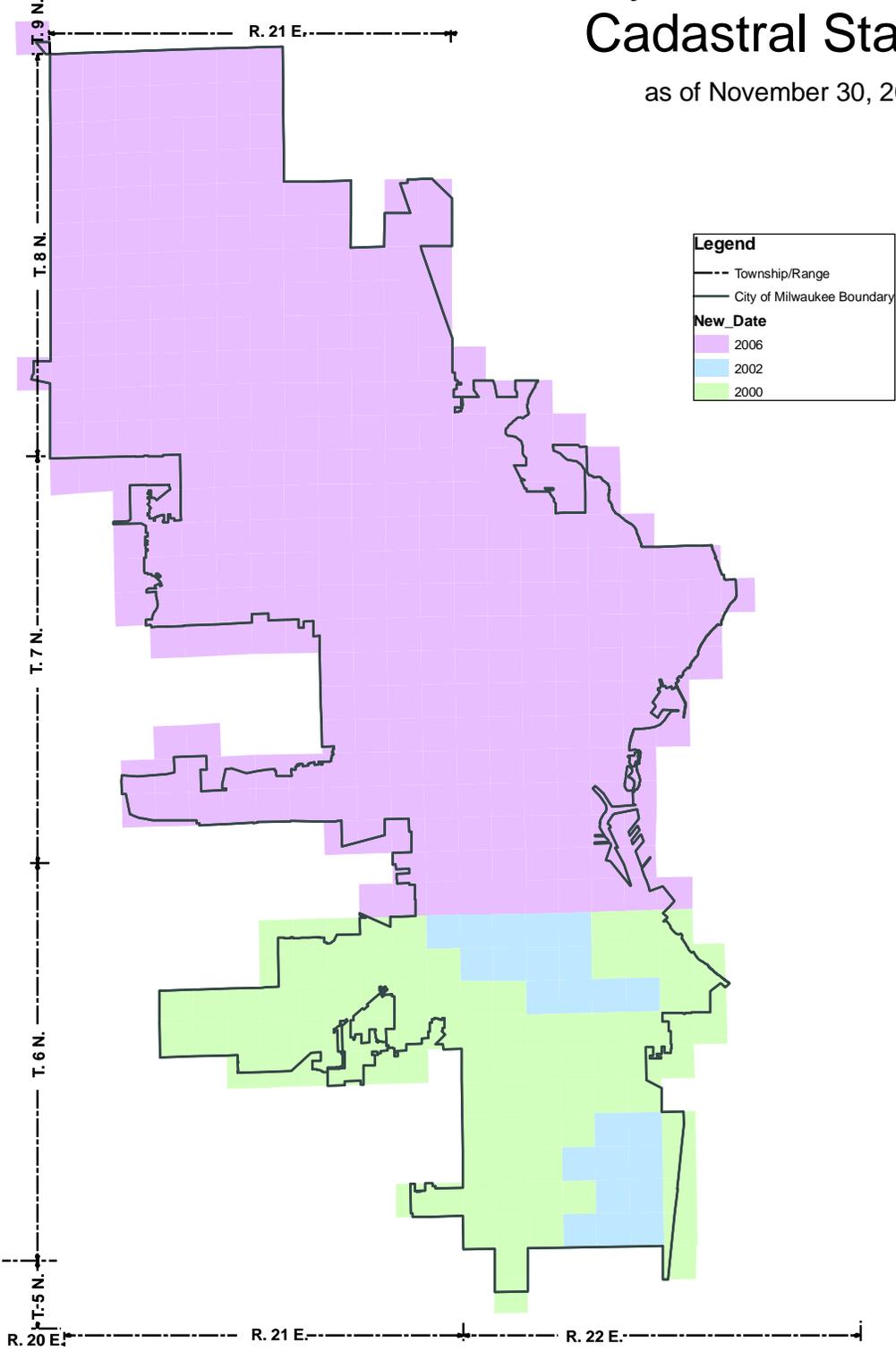
R.23 E.

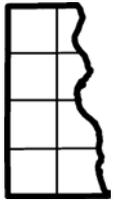


Source: MCAMLIS Project Manager

City of Milwaukee Cadastral Status

as of November 30, 2007





MILWAUKEE COUNTY
AUTOMATED MAPPING AND
LAND INFORMATION SYSTEM

c/o Department of
Transportation and Public Works
2711 West Wells Street, Room 426
Milwaukee, Wisconsin 53208-3509
Telephone (414) 278-2176

MEMORANDUM

TO: MCAMLIS Steering Committee
FROM: William C. Shaw, MCAMLIS Project Manager
DATE: December 7, 2007
SUBJECT: Enterprise Address System Project Status

BACKGROUND

The Milwaukee County Automated Mapping and Land Information System (MCAMLIS) has initiated a project to provide for the development of a Countywide "Enterprise Address System" (EAS).

The need for an EAS is a result of the many County and Regional services that rely on high quality address information to effectively provide critical services.

To meet this need, the EAS project has been designed to provide a comprehensive approach to the management of all Milwaukee County Address information.

The EAS Project will focus on the establishment of data, technology and organizational components required to serve all Milwaukee County units of government as well as many individual public service agencies.

Key objectives and characteristics of the EAS Project are highlighted below:

- Complete and standardized address information
- Current information to support user business processes
- Location-based, representing all physical address locations in Milwaukee County
- Enterprise support providing for a range of stakeholder interests
- Automated access and maintenance of addressing information
- Accessible to users at all levels and in compatible formats

ACTIVITIES THIS PERIOD

- 10/07 Requested CENSUS LUCA materials for Milwaukee County
- 11/07 EAS ArcServer Webmapping Environment bid evaluation completed
- 11/07 EAS ArcServer Webmapping Environment vendor selected and contract executed
- 11/07 LUCA Materials notice of delayed shipment
- 12/07 Completed integration of the City of Milwaukee Street Centerline data into a composite MCAMLIS Countywide Street Centerline database

STATUS

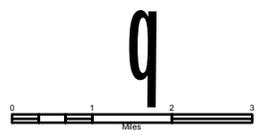
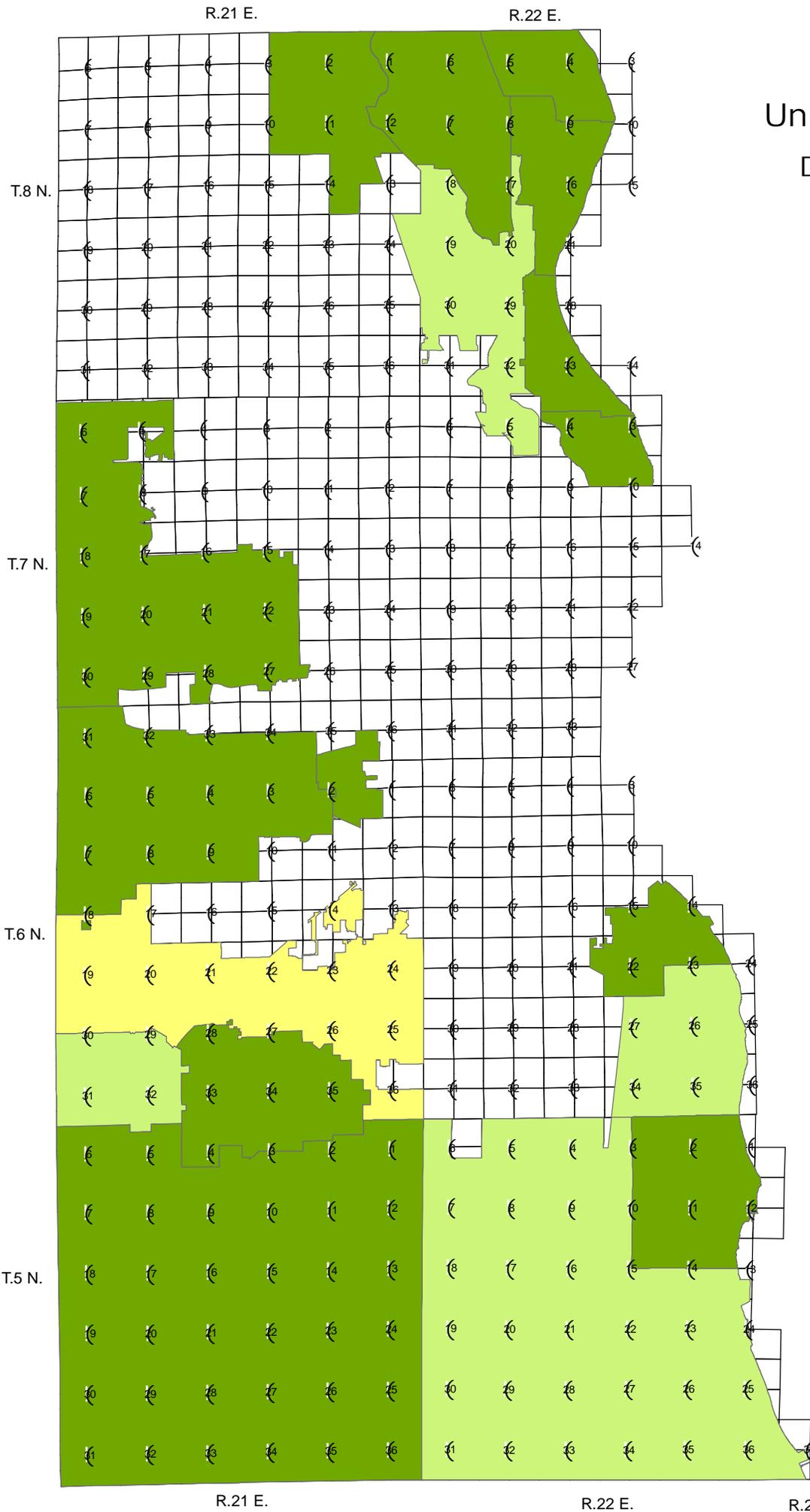
- Progress on developing the NSF Address Atlas (see attached exhibits).
- Significant progress is being made on incorporating multiple source information (see attached Unit-Level Addressing Status map).
- The ArcServer Webmapping Environment vendor was selected and work on the MCAMLIS EAS Web application will begin in December.

attach: MCAMLIS Unit-Level Addressing December 2007 Status
North Shore Fire Department Address Atlas Prototype exhibits

MCAMLIS Unit-Level Addressing

December 2007 Status

- COMPLETED
- IN PROGRESS
- REMAINING



Source: MCAMLIS Project Manager

EXECUTED LICENSE AGREEMENTS

*Number of
Executed
Agreements*

*Effective
Date*

Licensee

2004

101	Sigma Group	1/21/2004
102	TN & Associates	2/20/2004
103	Hayes Engineering Company	2/23/2004
104	Geocomm	3/30/2004
105	J. Spear Associates, Inc.	6/16/2004
106	Key engineering Group, Ltd.	7/21/2004
107	LandCraft Survey and Engineering, Inc.	8/26/2004
108	The Design Office	10/6/2004
109	Friebert, Finerty & St. John, S.C.	10/26/2004
110	Hiller Consulting, LLC	10/28/2004
139	City of Brookfield	12/21/2004

2005

111	Lohmans Golf Design, Inc.	1/31/2005
112	Land Information Services, Inc.	4/1/2005
113	Workshop Architects	4/25/2005
114	Carlan Johnson	5/9/2005
132	American Transmission Company LLC	10/25/2005
140	Urban Open Space Foundation Inc.	7/7/2005
141	U.S. Census	7/12/2005
142	Amcon Design & Construction	9/16/2005
143	Wisconsin Department of Health and Family Services- DCFS	9/23/2005
144	City of Waukesha	10/7/2005
145	Integrated Building Solutions	11/8/2005
146	Michael White	11/14/2005

2006

115	MATC Animation Program	3/14/2006
116	Losik Engineering Design Group	4/3/2006
121	CJ Engineering	5/26/2006

*Number of
Executed
Agreements*

Licensee

*Effective
Date*

122	Earth Tech, Inc.	5/26/2006
123	Guest House of Milwaukee	6/2/2006
124	Symbiont	6/14/2006
125	Milwaukee Area Domestic Animal Control Commission (MADACC)	6/29/2006
126	Lynn Bichler Architects	8/7/2006
127	Kevin Kolodziej	9/27/2006
128	Adam John Spitz	9/29/2006
129	Midwest Fiber Networks (Cable Com)	10/24/2006
130	Milwaukee Development Corporation	10/24/2006
131	Survey Associates, Inc	11/30/2006

2007

133	Hudson Map Company	1/2/2007
134	Daniel Hesketh	1/10/2007
135	Peter Nagel -University of Cincinnati	1/17/2007
136	Stephanie Valenta	1/30/2007
137	Metropolitan Survey Service, Inc.	2/28/2007
138	Ayres Associates Inc	4/6/2007
148	Wisconsin Great Lakes Coalition	5/3/2007
149	C.O.H.A. International	6/20/2007
150	Aquatic Engineering, Inc.	6/26/2007
151	City of Mequon	7/3/2007
152	Kathryn Lynn - University of Illinois Champaign	7/6/2007
153	RMT, Inc. - Madison	7/11/2007
155	VAST Design Collaborative	9/12/2007
156	Diggers Hotline	9/21/2007

MCAMLIS 2007

Digital Data Requests

<i>Licensee</i>	<i>Date of Request</i>	<i>Product Requested</i>
Commercial Development Commercial Engineering, Construction, Architectural firms		
Aquatic Engineering, Inc.		
MCAMLIS GIS Parcel Information .shp format	6/27/2007	TOPO
Architects In Common, LLC		
MCAMLIS Cadastral 10635 W Greenfield ave 449a.pdf	10/31/2007	Cadastral
C.O.H.A. International		
Digital Cadastral Mapping: S.W. 1/4 SEC.17. T.8N., R.21E	6/20/2007	Cadastral
Digital Topographic Mapping: S.W. 1/4 SEC.17. T.8N., R.21E	6/20/2007	TOPO
CH2M Hill		
2 Foot Contours Shapefile for selected area	11/15/2007	TOPO
CJ Engineering		
SW ¼ of Section 7, Town 5N, Range 21 E	6/12/2007	TOPO
Graef, Anhalt, Schloemer and Associates, Inc.		
MCAMLIS Cadastral - Shorewood	3/27/2007	Cadastral
MCAMLIS Topographic 0721011	4/19/2007	TOPO
Hayes Engineering Company		
MCAMLIS Topographic Data .dwg - Fox Point, WI	10/21/2007	TOPO
Jenkins Survey and Design, Inc.		
NE ¼ & SE ¼ of Section 19-5-22, City of Oak Creek	3/12/2007	TOPO
NE ¼ & SE ¼ of Section 19-5-22, City of Oak Creek	6/8/2007	TOPO
Kahler Slater Architects, Inc.		
Topgraphic Data SE 1/4 section of #20 Township 7 North, Range 22 East	1/29/2007	TOPO
Topgraphic Data NE 1/4 section of #29 Township 7 North, Range 22 East	6/27/2007	TOPO
Topgraphic Data NW, SW, SE 1/4 section of #29 Township 7 North, Range 22 East	6/28/2007	TOPO
Metropolitan Survey Service, Inc.		
Topgraphic Data SW&NW 1/4 section 07 Township 7 North, Range 21 East	2/28/2007	TOPO
R. A. Smith & Associates		
Topo data for Sec 26, NW ¼ & Sec 27, NE ¼ of T7 R21	1/10/2007	Cadastral
Topographic Data T6 R21 Section 6 .dgn	10/9/2007	TOPO
Topo data for NE ¼ of Section 27 T6R21, SW ¼ of Section 24 T6R21	11/9/2007	TOPO
Rowan Williams Davies & Irwin, Inc.		
Digital Topographic/Planimetric Maps	2/9/2007	TOPO
VAST Design Collaborative		
MCAMLIS Topographic Data Holton to the Lake .dwg	9/12/2007	TOPO
Educational Universities, School Districts		
Milwaukee Institute of Art and Design		
Topographic Contours for MIAD School Project	11/15/2007	TOPO
Topographic Contours for MIAD School Project	11/29/2007	TOPO
Schlitz Audubon Nature Center		
KidZibits, LLC Topographic Data	3/19/2007	TOPO

Licensee**Date of Request Product Requested****University of Wisconsin-Madison**

Milwaukee County MCAMLIS 2004/05 Topographic/Planimetric .gdb, .mdb, .dgn	6/26/2007	TOPO
Milwaukee County MCAMLIS 2004/05 DTM .gdb, .mdb, .dgn	6/26/2007	DTM
Milwaukee County Parcel Data Geodatabase	9/26/2007	Cadastral

University of Wisconsin-Milwaukee

2005 Topographic map updates	1/8/2007	TOPO
Cadastral & DTM .gdb - Milwaukee River Project, Laura DiVergilio (Student)	3/29/2007	TOPO
.gdb, .mdb, .dgn - Milwaukee County	4/16/2007	TOPO
Pre-Release DTM .gdb, .mdb, .dgn - Milwaukee County	4/16/2007	TOPO
Milwaukee County MCAMLIS 2004/05 Topographic/Planimetric .gdb, .mdb, .dgn	6/26/2007	TOPO
Milwaukee County MCAMLIS 2004/05 DTM .gdb, .mdb, .dgn	6/26/2007	DTM
Milwaukee County Parcel Data Shapefile	9/26/2007	Cadastral

West Allis-West Milwaukee School District

West Allis/West Milwaukee Parcel & Selected Topo - Schreiber/Anderson Associates, Inc.	9/12/2007	TOPO
West Allis/West Milwaukee Parcel & Selected Topo - Schreiber/Anderson Associates, Inc.	9/12/2007	Cadastral

Local Government**Municipality and Regional Government, Fire, Police****City of Cudahy**

Cudahy Cadastral .dwg	3/29/2007	Cadastral
Rukert & Mielke MCAMLIS Cudahy Address Data	4/1/2007	Address
Rukert & Mielke MCAMLIS Cudahy Cadastral Data	4/1/2007	Cadastral
Rukert & Mielke MCAMLIS Cudahy Topographic Data	4/1/2007	TOPO
Topographic Data - 0622261/2 AutoCad Format	4/24/2007	TOPO
PLSS Data - Cudahy AutoCad Format	4/25/2007	PLSS Corners
2004/2005 Topographic/Planimetric and DTM Update	8/9/2007	TOPO
2004/2005 Topographic/Planimetric and DTM Update	8/9/2007	DTM

City of Franklin

MCAMLIS 2005 DTM	2/5/2007	TOPO
MCAMLIS 2005 Topos .GDB Format	6/5/2007	TOPO

City of Glendale

2004/2005 Topographic/Planimetric and DTM Update	8/9/2007	DTM
2004/2005 Topographic/Planimetric and DTM Update	8/9/2007	TOPO

City of Greenfield

DTM Howard to Grange on 124th Street	2/20/2007	TOPO
Cadastral Cold Spring to Grange on 124th Street	6/4/2007	Cadastral
City of Greenfield 2005 Topo & DTM Data DGN. & GDB	6/11/2007	TOPO

City of Mequon

Ruekert * Mielke, T8R21 & T8R22 Cadstral Data	7/3/2007	Cadastral
---	----------	-----------

City of Milwaukee

2005 Milwaukee County Topographic & DTM Data	3/6/2007	TOPO
2005 Milwaukee County Topographic & DTM Data	3/20/2007	TOPO
2005 Milwaukee County Topographic & DTM Data	3/30/2007	TOPO
2005 MCAMLIS Countywide DTM	5/1/2007	DTM
2005 MCAMLIS Countywide Topographic Data	5/1/2007	TOPO
Earthtech - Data Request for Southeast Side Plan Mapping for the Milwaukee DCD	9/25/2007	TOPO
2005 MCAMLIS Countywide DTM	11/1/2007	DTM

<i>Licensee</i>	<i>Date of Request</i>	<i>Product Requested</i>
2005 MCAMLIS Countywide DTM	11/1/2007	DTM
City of Oak Creek		
City of Oak Creek DTM	1/30/2007	Cadastral
City of Oak Creek - MCAMLIS Cadastral .mdb, .dwg	7/26/2007	Cadastral
City of Oak Creek - MCAMLIS 2005 DTM .gdb, .mdb, .dgn	7/26/2007	DTM
City of Oak Creek - MCAMLIS 2005 Topographic/Planimetric .gdb, .mdb, .dgn	7/26/2007	TOPO
City of South Milwaukee		
2004/2005 Topographic/Planimetric and DTM Update	8/9/2007	TOPO
2004/2005 Topographic/Planimetric and DTM Update	8/9/2007	DTM
City of St. Francis		
2004/2005 Topographic/Planimetric and DTM Update	8/9/2007	DTM
2004/2005 Topographic/Planimetric and DTM Update	8/9/2007	TOPO
City of Wauwatosa		
Wauwatosa parcel data-Vandewalle & Associates	7/26/2007	Cadastral
2004/2005 Topographic/Planimetric and DTM Update	8/9/2007	TOPO
2004/2005 Topographic/Planimetric and DTM Update	8/9/2007	DTM
Vandewalle & Associates MCAMLIS County Street Centerline	9/7/2007	Address
Vandewalle & Associates MCAMLIS Transportation Network	9/10/2007	DTM
City of West Allis		
MCAMLIS - County Topo ROW .shp, .dgn	4/4/2007	TOPO
MCAMLIS - County Parcel	4/4/2007	Cadastral
MCAMLIS - County Topo .dgn, mdb, .gdb	6/28/2007	TOPO
MCAMLIS - County DTM .dgn, mdb, .gdb	6/28/2007	DTM
Milwaukee County		
COLLINS ENGINEERS Bridge Project Topographic Data	1/30/2007	TOPO
Lincoln Park Floodplain & Env Coord	4/26/2007	TOPO
Topo Paved Centerline Map of the entire county .dwg	11/26/2007	TOPO
North Shore Communities Fire Department		
MCAMLIS Street Map - NSF	7/26/2007	Address
Village of Bayside		
2004/2005 Topographic/Planimetric and DTM Update	8/9/2007	TOPO
2004/2005 Topographic/Planimetric and DTM Update	8/9/2007	DTM
Village of Brown Deer		
2004/2005 Topographic/Planimetric and DTM Update	8/9/2007	TOPO
2004/2005 Topographic/Planimetric and DTM Update	8/9/2007	DTM
Village of Fox Point		
Carrie Bristol-Groll from Stormwater Solutions 2005 TOPO and DTM data in DGN format	1/9/2007	Ortho
Flood Insurance Rate Map Overlaid on Fox Point Cadastral	1/25/2007	Floodplane
Earth Tech, Inc. MCAMLIS Topographic/Planimetric/DTM/PLSS Data Request - Village of Fox Point	4/19/2007	TOPO
Earth Tech, Inc. MCAMLIS Cadastral Data Request - Village of Fox Point	4/19/2007	Cadastral
Village of Fox Point Address and Parcel Map	5/8/2007	Address
Earth Tech, Inc. MCAMLIS Street Centerline - Village of Fox Point	6/15/2007	Address
Earth Tech, Inc. MCAMLIS 1985/1990 Topographic - Village of Fox Point	6/28/2007	TOPO
Earth Tech, Inc. MCAMLIS Parcel Data Request - Village of Fox Point	10/15/2007	Cadastral

Licensee**Date of Request Product Requested****Hudson Map Company**

Milwaukee Suburban Street Centerline	1/2/2007	Address
--------------------------------------	----------	---------

Kapur & Associates, Inc.

Milwaukee County Zoo -Parcel and Address Data	1/11/2007	Cadastral
---	-----------	-----------

Land Information Services, Inc.

SE ¼ Section 27-6-22, NW ¼ & SW ¼, Section 7-7-22, NE ¼ & SE ¼, Section 12-7-21, Milwaukee County	1/18/2007	TOPO
---	-----------	------

NE 1/4 of Section 11-7-21	4/16/2007	TOPO
---------------------------	-----------	------

RMT, Inc. - Madison

Milwaukee County Parcel Data	7/11/2007	Cadastral
------------------------------	-----------	-----------

Yaggy Colby and Associates

Parcel Data in .shp format for City of Wauwatosa	10/5/2007	Cadastral
--	-----------	-----------

City of Wauwatosa - Topographic 2ft. Contours	10/5/2007	TOPO
---	-----------	------

Parcel Data in .shp format for Westallis, Greenfield and Hale Corners	10/5/2007	Cadastral
---	-----------	-----------

State, Federal Government State or Federal Bureau Departments**Bureau of Land Management**

MrSid Ortho Imagery for Wisconsin 2006 NAE4-HA National Conference	10/3/2007	Ortho
--	-----------	-------

Southeastern Wisconsin Regional Planning Commission (SEWRPC)

MCAMLIS Milwaukee County Topographic Data	4/19/2007	TOPO
---	-----------	------

Lake Michigan Shoreline Parcel Owner/Address List	5/7/2007	Address
---	----------	---------

Wisconsin Department of Natural Resources

City of Franklin Topographic Data	3/30/2007	TOPO
-----------------------------------	-----------	------

Milwaukee County Parcel Data	7/10/2007	Cadastral
------------------------------	-----------	-----------

MCAMLIS Parcel Data	11/5/2007	Cadastral
---------------------	-----------	-----------

MCAMLIS Municipality Subdivision Boundaries	11/7/2007	Cadastral
---	-----------	-----------

MCAMLIS Street Centerline Address .shp	11/7/2007	Address
--	-----------	---------

Wisconsin Department of Transportation

WISDOT Corridor Study - US45/STH 100 (Puetz - Layton)	4/3/2007	Cadastral
---	----------	-----------

WISDOT Corridor Study - US45/STH 100 (Puetz - Layton)	4/3/2007	TOPO
---	----------	------

WISDOT Corridor Study - US45/STH 100 (Puetz - Layton)	4/3/2007	Ortho
---	----------	-------

Parcel Data - WisDOT / DBM / BITS / GeoSpatial Group	4/11/2007	Cadastral
--	-----------	-----------

CTE AECOM WisDOT Project 2320-00-00 STH 100 Brown Deer Rd	8/9/2007	Cadastral
---	----------	-----------

Topographical Data - Collins Engineering	8/21/2007	TOPO
--	-----------	------

MCAMLIS DTM Data DGN format	8/23/2007	DTM
-----------------------------	-----------	-----

CTE AECOM WisDOT Project 2320-00-00 STH 100 Brown Deer Rd/Owner address List	9/7/2007	Cadastral
--	----------	-----------

Greenfield topo .dgn	10/23/2007	TOPO
----------------------	------------	------

Zoo Interchange Project- MCAMLIS Topo Data	11/9/2007	TOPO
--	-----------	------

Utility**Electric, Gas, Communication, utility location****AT & T**

Topo Wisconsin State Fair Park	2/2/2007	Cadastral
--------------------------------	----------	-----------

2005 MCAMLIS Countywide Cadastral Data - DGN	5/15/2007	Cadastral
--	-----------	-----------

2005 MCAMLIS Countywide Topographic Data - DGN	5/15/2007	TOPO
--	-----------	------

Diggers Hotline

MCAMLIS Street Centerline - Diggers Hotline	9/19/2007	Address
---	-----------	---------

MCAMLIS Municipality Subdivision Boundaries	11/7/2007	Cadastral
---	-----------	-----------

<i>Licensee</i>	<i>Date of Request</i>	<i>Product Requested</i>
Milwaukee Metropolitan Sewerage District		
2005 MCAMLIS Topo and DTM	1/3/2007	TOPO
2005 MCAMLIS Topo and DTM	1/18/2007	TOPO
2005 Milwaukee County Topographic & DTM Data	3/20/2007	TOPO
2005 MCAMLIS Countywide Topographic	5/1/2007	TOPO
2005 MCAMLIS Countywide DTM	5/1/2007	DTM
We Energies		
2004/2005 Topographic/Planimetric and DTM Update	9/21/2007	TOPO
2004/2005 Topographic/Planimetric and DTM Update	9/21/2007	DTM

MEMORANDUM

TO: MCAMLIS Steering Committee

FROM: SEWRPC Staff

DATE: November 30, 2007

SUBJECT: **2007 ORTHOPHOTOGRAPHY PROJECT IN MILWAUKEE COUNTY**

Background

In 2006, the Southeastern Wisconsin Regional Planning Commission (SEWRPC) obtained a grant award from the U.S. Geological Survey (USGS) that was used to acquire color orthophotography for a large portion of the Southeastern Wisconsin Region. This project obtained 2007 orthophotography for all of Milwaukee, Ozaukee, and Waukesha Counties and portions of Washington and Dodge Counties. The USGS provided the grant as part of a Federal Homeland Security Program initiative to maintain current large-scale orthophotography for the largest urban areas in the United States.

The grant award described a project area called the "Milwaukee footprint" that covers large portions of several counties, but does not cover any one county entirely. In Milwaukee County, the grant award area covers about 90 percent of the County. The MCAMLIS Steering Committee is to contribute an additional amount of \$2,915 to complete orthophotography for the remaining 26 square miles of Milwaukee County not covered in the USGS grant award project area.

The 2007 Orthophotography Project acquired color, 12-inch pixel resolution, digital orthophotography for an approximately 1,187 square mile project area, including all of Milwaukee County. The deliverable products are color orthophoto image files in GeoTIFF format and compressed color orthophoto image files in MrSID format. In addition, the 2004-2005 digital terrain model used for this project was updated where necessary to create a set of orthophoto elevation model files current as of 2007. SEWRPC staff provided project administration and quality control for the 2007 Orthophotography Project.

Status

The project contractor, Aero-Metric Inc. of Sheboygan, acquired the aerial photography for this project on April 20 and 21, 2007. The contractor processed the files and delivered the orthophotography to SEWRPC in September and October 2007. SEWRPC staff reviewed the digital orthophotography for content, appearance, areal coverage, positional accuracy, and file parameters. A sample of the orthophotography—an area of approximately eight square miles—was reviewed by USGS staff, who indicated that the sample orthophotography satisfied project specifications. Final acceptance of the orthophotography is expected from the USGS.

The GeoTIFF format files covering all of Milwaukee County were delivered to the MCAMLIS Project Manager on November 27, 2007. SEWRPC staff will create the compressed MrSID format files and deliver them to MCAMLIS on or before December 14, 2007. The project will be completed in Milwaukee County with the delivery of these files and the payment of the final invoice by the County.

* * * * *



Legend

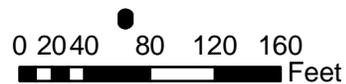
Roofline

Type

- 2000
- 2007
- 2005-6in

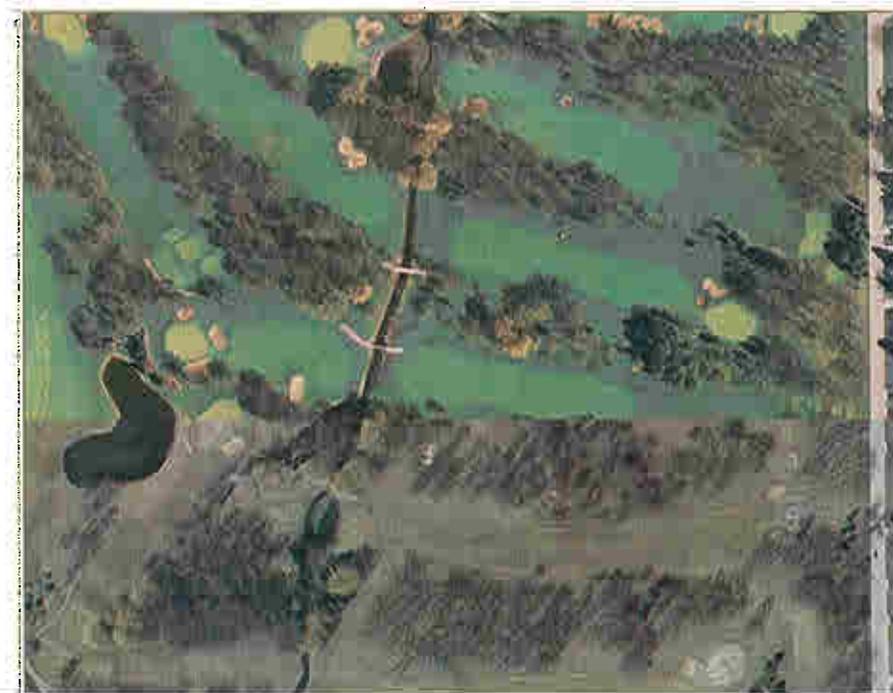
— Building Footprint

▭ Parcels





Brown Deer Golf Course-North area is 2007(12in) and South is 2004(6in) displayed at 200 scale.



Brown Deer Golf Course-North area is 2007(12in) and South is 2005(12in) displayed at 200 scale.



Brown Deer Golf Course-North area is 2007(12in) and South is 2000(12in) Grey Scale displayed at 200 scale.

SOUTHEASTERN WISCONSIN REGIONAL PLANNING COMMISSION

W239 N1812 ROCKWOOD DRIVE • PO BOX 1607 • WAUKESHA, WI 53187-1607 •

TELEPHONE (262) 547-6721
FAX (262) 547-1103

Serving the Counties of:

KENOSHA
MILWAUKEE
OZAUKEE
RACINE
WALWORTH
WASHINGTON
WAUKESHA



MEMORANDUM

TO: MCAMLIS Steering Committee

FROM: SEWRPC Staff

DATE: November 30, 2007

SUBJECT: STATUS REPORT NO. 9 ON REGIONAL WATER SUPPLY PLAN

This memorandum sets forth the progress made on the regional water supply planning program from September 15, 2007, the date of the last report to the Steering Committee, through November 30, 2007. The preparation of the regional water supply plan represents the third, and final, element of the SEWRPC regional water supply planning program. The first two elements, comprising the development of basic groundwater inventories and the development of a groundwater simulation model for the Southeastern Wisconsin Region, were completed over the past several years. These first two elements involved interagency partnership programs with the U.S. Geological Survey, the Wisconsin Geological and Natural History Survey, the University of Wisconsin-Milwaukee, the Wisconsin Department of Natural Resources, and many of the water supply utilities serving the Region. The third, and final, step in the planning program, the preparation of the water supply plan, was initiated January of 2005. In addition, the 2035 regional land use plan has been completed. That land use plan was separately funded and serves as the basis for the development of the regional water supply plan.

Progress on the water supply plan during the reporting period has been focused on the completion of water use forecasts through the plan design year 2035, the completion and publication of the state-of-the-art water supply practices report, the continuation of special groundwater analyses, and the development of conceptual and detailed alternative water supply plans.

Progress on the water supply plan is summarized in the attached Exhibit 1 and in the following paragraphs.

STUDY ORGANIZATION

As previously reported, a cooperative staffing arrangement is being used, involving the Southeastern Wisconsin Regional Planning Commission (SEWRPC) staff, consulting engineering and legal firms, and the groundwater technical staffs of the Wisconsin Geological and Natural History Survey (WGNHS), the U.S. Geological Survey (USGS), and the University of Wisconsin-Milwaukee. The contractual arrangements were previously completed through agreements with groundwater technical staffs of the State and Federal agencies concerned, with a consulting engineering firm for carrying out portions of the

work, and with a legal firm for a review of water supply laws. During this reporting period, the administrative direction and internal project management of the planning program was continued.

ADVISORY COMMITTEE

The Regional Water Supply Planning Advisory Committee met on November 27, 2007, to review the revised version of a staff memorandum setting forth conceptual alternative water supply plans proposed to be developed in detail and evaluated, and to review the introductory information, the analytic procedures, and the detailed description and impact evaluation of the first alternative plan as documented in the initial portion of Chapter VIII of the planning report. The Committee approved the staff memorandum and the initial portion of Chapter VIII.

PLAN REPORT PREPARATION

Seven of the 11 chapters of the planning report have now been finalized. All 10 chapters of SEWRPC Technical Report No. 43, *State-of-the-Art of Water Supply Practices*, and SEWRPC Technical Report No. 44, *Water Supply Law*, have been completed and published.

GROUNDWATER MODELING ACTIVITIES

Work was continued on the groundwater sustainability analysis and on the groundwater recharge area analyses.

OTHER ACTIVITIES

The Commission water supply planning website has been maintained. The Advisory Committee meeting minutes and report chapters are being placed on that site. The site also includes related presentations, reports, and other pertinent information. Four presentations on the planning program were made to governmental committees and staff and other interested parties: 1) the Kenosha County Multijurisdictional Comprehensive Planning Committee, 2) the SEWRPC Environmental Justice Task Force, 3) the U.S. Geological Survey Upper Mississippi River Cooperators, and 4) a church-related interest group.

* * *

Exhibit 1

STATUS OF REGIONAL WATER SUPPLY PLAN: NOVEMBER 30, 2007

Work Element	Percent Complete				
	20	40	60	80	100
Study Design and Organization					
Formulation of Objectives and Standards					
Basic Study Area Inventories					
Groundwater Resources Data Inventories					
Water Supply System Inventories					
Water Law Inventory					
State-of-the-Art Water Supply Management Inventory and Analysis					
Analyses and Forecasts					
Preparation, Test, and Evaluation of Alternative Plans					
Plan Selection					
Plan Implementation					
Publication of Reports					
Public Involvement					

#132871 V1 - MCAMLIS RWSP STATUS REPORT NO. 9
 KWB/RPB/pk
 11/30/07

SOUTHEASTERN WISCONSIN REGIONAL PLANNING COMMISSION

W239 N1812 ROCKWOOD DRIVE • PO BOX 1607 • WAUKESHA, WI 53187-1607

TELEPHONE (262) 547-6721
FAX (262) 547-1103

Serving the Counties of:

KENOSHA
MILWAUKEE
OZAUKEE
RACINE
WALWORTH
WASHINGTON
WAUKESHA



MEMORANDUM

TO: MCAMLIS Steering Committee

FROM: SEWRPC Staff

DATE: December 1, 2007

**SUBJECT: STATUS REPORT NO. 9 ON PHASE II OF THE
MILWAUKEE COUNTY FLOODLAND MAPPING PROJECT**

This memorandum sets forth the progress made on Phase II of the Milwaukee County Floodland Mapping project from February 1, 2007, through November 30, 2007. That project phase includes the streams that are to be studied in the County in the Root River watershed except for Legend Creek, which was studied under Phase I. In general, status reports will address project progress in the following three major areas and they will also identify major issues that have arisen.

- Data Acquisition
- Hydrologic and Hydraulic Modeling
- Floodland Map Preparation

Overall, the Phase II portion of the project is about 10 percent complete. Progress is summarized in the attached Exhibits 1 and 2.

DATA ACQUISITION

There were no data acquisition activities during the reporting period.

HYDROLOGIC AND HYDRAULIC MODELING

During the reporting period, progress on hydrologic and hydraulic modeling for Phase I of the project included the following:

- Initiated review and revision of the U.S. Environmental Protection Agency (USEPA) HSPF continuous simulation hydrologic model developed for the Root River watershed under Phases 1 and 2 of the MMSD watercourse system management plan and revised under the SEWRPC Regional Water Quality Management Plan Update/MMSD 2020 Facilities Planning Program. The review and revision are for the purpose of verifying the model calibration and validation according

to WDNR and Federal Emergency Management Agency criteria, so the model can be used in the MCAMLIS/MMSD/SEWRPC floodplain mapping program.

FLOODLAND MAP PREPARATION

There were no floodland map preparation activities during the reporting period.

PROPOSED SCHEDULE FOR COMPLETION OF PHASE II

The factors that have affected, and continue to affect, the schedule for completion of Phases I and II of this project were listed in Status Report No. 6, which covers the period from January 1, 2006 through June 30, 2006. Based on those considerations, because local requests have hampered the ability to maintain a distinction between the schedules for Phases I and II of the overall project as described in the December 1, 2007, Status Report No. 17 for Phase I, and because of additional reductions in staff levels in the floodplain management program related to budgetary constraints, it is proposed that the schedule for Phases I and II of the floodplain mapping be consolidated, with an anticipated completion date of December 31, 2009.

* * *

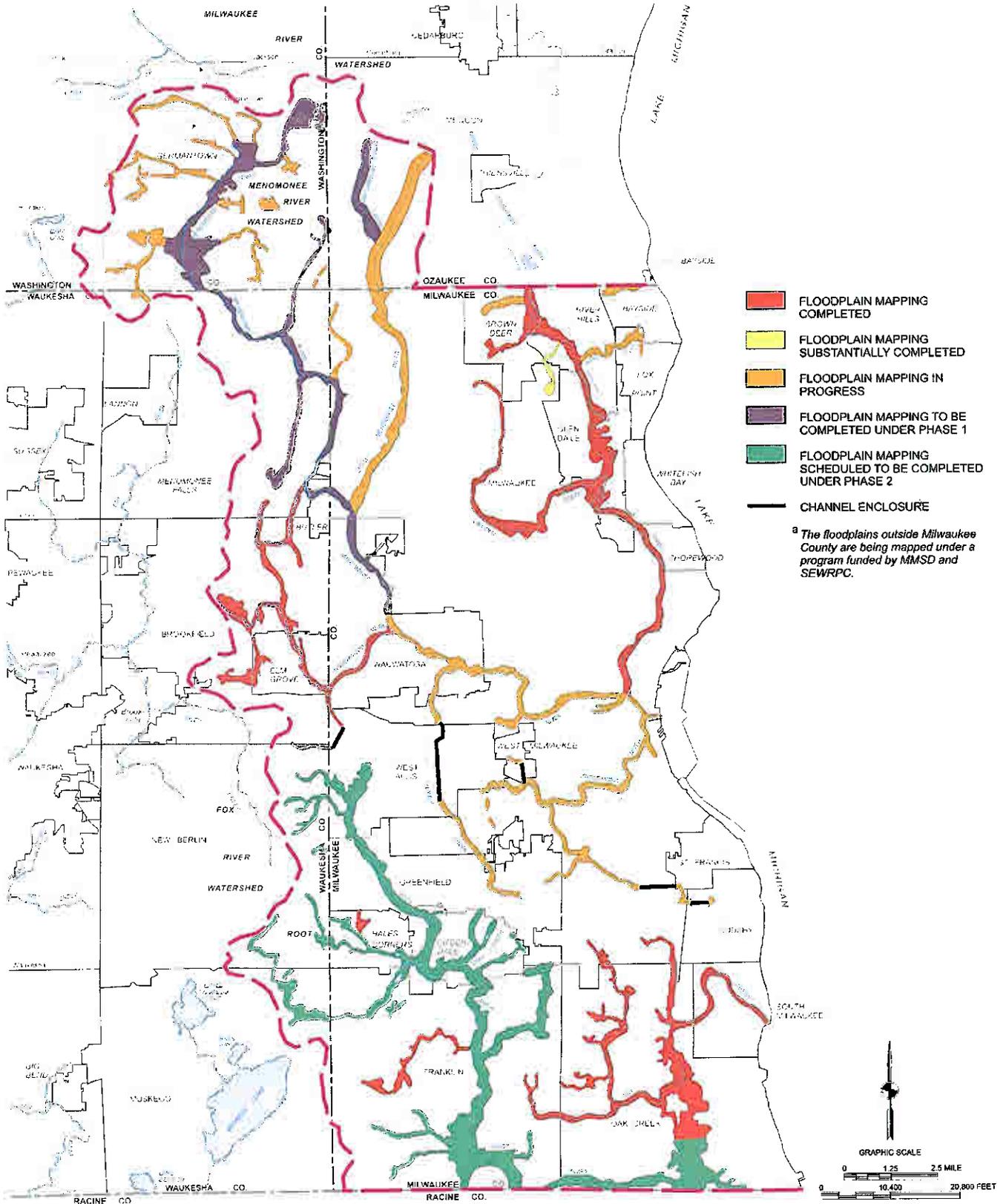
Exhibit 1

STATUS OF MCAMLIS PHASE II MILWAUKEE COUNTY FLOODLAND MAPPING PROJECT: NOVEMBER 30, 2007

Major Area	Data Acquisition (percent complete)					Hydrologic and Hydraulic Modeling (percent complete)					Floodland Map Preparation (percent complete)				
	20	40	60	80	100	20	40	60	80	100	20	40	60	80	100
Phase II															
Lake Michigan Coastal Flooding Areas						NA	NA	NA	NA	NA					
Root River Watershed															

Exhibit 2

STATUS OF FLOODPLAIN MAPPING IN MILWAUKEE COUNTY AND IN MENOMONEE AND ROOT RIVER WATERSHEDS OUTSIDE MILWAUKEE COUNTY.^a NOVEMBER 30, 2007



Source: SEWRPC.

SOUTHEASTERN WISCONSIN REGIONAL PLANNING COMMISSION

W239 N1812 ROCKWOOD DRIVE • PO BOX 1607 • WAUKESHA, WI 53187-1607 •

TELEPHONE (262) 547-6721
FAX (262) 547-1103

Serving the Counties of:

KENOSHA
MILWAUKEE
OZAUKA
RACINE
WALWORTH
WASHINGTON
WAUKESHA



MEMORANDUM

TO: MCAMLIS Steering Committee

FROM: SEWRPC Staff

DATE: December 1, 2007

**SUBJECT: STATUS REPORT NO. 17 ON PHASE I OF THE
MILWAUKEE COUNTY FLOODLAND MAPPING PROJECT**

This memorandum sets forth the progress made on Phase I of the Milwaukee County Floodland Mapping project from February 1, 2007, through November 30, 2007. That project phase includes all streams that are to be studied in the County, with the exception of those in the Root River watershed. This status report addresses project progress in the following three major areas:

- Data Acquisition
- Hydrologic and Hydraulic Modeling
- Floodland Map Preparation

Overall, the Phase I portion of the project is about 90 percent complete. Progress is summarized in the attached Exhibit 1 and is graphically summarized on the map attached hereto as Exhibit 2.

DATA ACQUISITION

During the period of February 1, 2007, through November 30, 2007, the following data acquisition activities were carried out:

- As indicated by Exhibit 1, data acquisition activities are substantially completed. When additional data needs are identified as work proceeds, the acquisition of the data is coordinated with the Milwaukee Metropolitan Sewerage District (MMSD), the Wisconsin Department of Natural Resources (WDNR), the Wisconsin Department of Transportation (WisDOT), and the pertinent communities.
- The U. S. Army Corps of Engineers HEC-RAS river analysis systems hydraulic model for the reach of the Menomonee River downstream from its confluence with Underwood Creek, including all MMSD flood control projects constructed to date, was obtained.
- The engineering drawings for the new Canal Street bridge over the Menomonee River were received from the City of Milwaukee.

HYDROLOGIC AND HYDRAULIC MODELING

During the reporting period, progress on hydrologic and hydraulic modeling for Phase I of the project included the following:

Menomonee River Watershed

- Completed review and revision of the U.S. Environmental Protection Agency (USEPA) HSPF continuous simulation hydrologic model developed for the Menomonee River watershed under Phases 1 and 2 of the MMSD watercourse system management plan and revised under the SEWRPC Regional Water Quality Management Plan Update/MMSD 2020 Facilities Planning Program. The review and revision are for the purpose of verifying the model calibration and validation according to WDNR and Federal Emergency Management Agency criteria, so the model can be used in the MCAMLIS/MMSD/SEWRPC floodplain mapping program.

Fish Creek Subwatershed

- The preliminary hydraulic model of Fish Creek and its tributaries was refined.

FLOODLAND MAP PREPARATION

Milwaukee River Watershed

- Work continued on refining preliminary draft floodplain boundaries along Brown Deer Park Creek for the 10-, 50-, 100-, and 500-year floods.

Fish Creek Subwatershed

- The preliminary 10-, 50-, and 500-year floodplain boundaries along Fish Creek and tributaries were refined.

PROPOSED SCHEDULE FOR COMPLETION OF PHASE I

The factors that have affected, and continue to affect, the schedule for completion of Phases I and II of this project were listed in Status Report No. 14, which covers the period from January 1, 2006 through June 30, 2006. In addition, two more-recent local requests have been received for submittal of study information in support of Federal Emergency Management Agency Letters of Map Revision. One of those requests was from the City of Milwaukee relative to mapping the floodplain along Wilson Park Creek in the Kinnickinnic River watershed (Phase I). The other request was from the Village of Hales Corners related to the North Branch of Whitnall Park Creek in the Root River watershed. Complying with the Hales Corners request requires review and revision of a significant portion of the USEPA HSPF continuous simulation hydrologic model developed for the Root River watershed under the SEWRPC Regional Water Quality Management Plan Update/MMSD 2020 Facilities Planning Program. Because floodplain mapping along streams in the Root River watershed is to be conducted under Phase II of the MCAMLIS/MMSD project, the work for the North Branch of Whitnall Park Creek represents progress on Phase II at the expense of Phase I.

Based on those considerations, because local requests have hampered the ability to maintain a distinction between the schedules for Phases I and II of the overall project, and because of additional reductions in staff levels in the floodplain management program related to budgetary constraints, it is proposed that the schedule for Phases I and II of the floodplain mapping be consolidated, with an anticipated completion date of December 31, 2009.

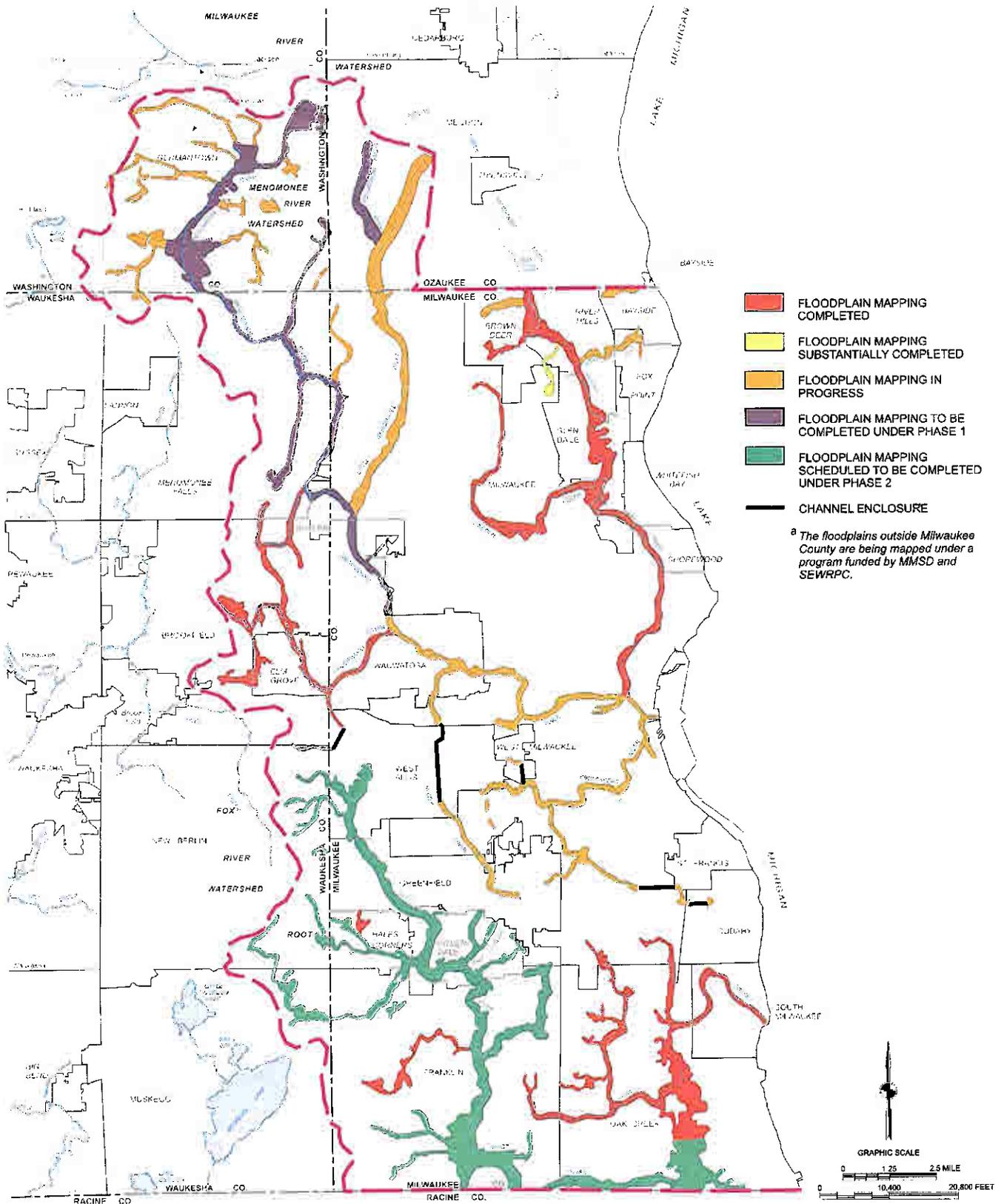
* * *

Exhibit 1
STATUS OF MCAMLIS PHASE I MILWAUKEE COUNTY FLOODLAND MAPPING PROJECT: NOVEMBER 30, 2007

Major Area	Data Acquisition (percent complete)	Hydrologic and Hydraulic Modeling (percent complete)	Floodland Map Preparation (percent complete)
Phase I			
Kinnickinnic River Watershed	100	45	0
Lake Michigan Direct Drainage Area – Fish Creek	100	85	55
Menomonee River Watershed	95	90	60
Milwaukee River Watershed	100	95	90
Oak Creek Watershed	95	100	85
Legend Creek (Root River Watershed)	100	100	100

Exhibit 2

STATUS OF FLOODPLAIN MAPPING IN MILWAUKEE COUNTY AND IN MENOMONEE AND ROOT RIVER WATERSHEDS OUTSIDE MILWAUKEE COUNTY:^a NOVEMBER 30, 2007



Source: SEWRPC.

COUNTY EXECUTIVE'S 2008 BUDGET

DEPT: MILWAUKEE COUNTY AUTOMATED LAND INFORMATION SYSTEM

UNIT NO. 1923

FUND: General - 0001

OPERATING AUTHORITY & PURPOSE

Pursuant to Sections 15.105(16), 16.971, 20.505(4)(im) and 59.72 of the Wisconsin Statutes and County Board Resolution File 90-707(a), approved on November 8, 1990, the Milwaukee County Automated Land Information System (MCAMLIS) may design, develop and implement a land information system integrating property and ownership records with U.S. Public Land Survey referenced parcel-identified boundary information; prepare boundary-referenced parcel property maps suitable for producing accurate land title or survey boundary line information; and prepare maps with documented accuracy suitable for local planning.

Pursuant to Section 59.43, a \$7 surcharge on Recording Fees is collected to fund a land information office, modernization of land records, the State of Wisconsin Land Information Program and the MCAMLIS Board. Of the total \$7 surcharge on

recording fees, \$4 is retained to develop, implement, and maintain a Countywide plan for land record modernization. One dollar of the surcharge is also retained locally and specifically designated for expenditures associated with initiatives to implement and maintain land information records on the internet including the County's land information records relating to housing. (No portions of the \$4 and \$1 surcharges are available for general County purposes.) Two dollars of the additional \$7 surcharge are forwarded to the State Department of Administration.

Fee for MCAMLIS	4
Fee for Land Records Modernization Initiatives	1
Fee for State Land Information Program	<u>2</u>
	\$ 7

BUDGET SUMMARY				
Account Summary	2006 Actual	2007 Budget	2008 Budget	2007/2008Change
Services	\$ 1,831,308	\$ 710,000	\$ 638,315	\$ (71,685)
Commodities	219	5,000	5,000	0
Capital Outlay	11,597	8,000	8,000	0
County Service Charges	320,368	328,000	343,685	15,685
Total Expenditures	\$ 2,163,492	\$ 1,051,000	\$ 995,000	\$ (56,000)
Direct Revenue	2,163,194	1,051,000	995,000	(56,000)
State & Federal Revenue	300	0	0	0
Total Revenue	\$ 2,163,494	\$ 1,051,000	\$ 995,000	\$ (56,000)
Direct Total Tax Levy	(2)	0	0	0

BUDGET HIGHLIGHTS

- This appropriation provides 2008 expenditure authority of \$995,000 for the Automated Land Information System. Revenue of \$792,000 is projected to be received from the \$4 surcharge collected by the Register of Deeds (ROD) earmarked for land information modernization by Section 59.72(5) of the Wisconsin Statutes. Revenue of \$198,000 is projected to be collected from the \$1 surcharge, which is also collected by the ROD. In addition, \$5,000 in miscellaneous revenue is budgeted based on prior experience. Milwaukee County is not required to provide tax levy dollars to fund the Automated Land Information System.
- Expenditure authority includes the continued development and maintenance of the automated

base map and parcel-based land information system as provided for in the plan approved by the County Board and selected plan development work. More specifically, 2008 expenditures include:

- \$198,000 to develop and maintain a computerized indexing of the County's land information records related to housing consistent with the requirement of Section 66.100(2)(b) Wisconsin Statutes.
- \$77,175 for surveying services provided by the Southeastern Wisconsin Regional Planning Commission in performance of its duties as the Milwaukee County Surveyor

COUNTY EXECUTIVE'S 2008 BUDGET

MILWAUKEE COUNTY AUTOMATED LAND INFORMATION SYSTEM

UNIT NO. 1923
FUND: General - 0001

under the requirements of Section 59.635, Wisconsin Statutes.

- \$74,000 to replace/upgrade existing computer equipment, software maintenance and upgrades and data processing consulting services.
- \$225,316 to the Architectural, Engineering & Environmental Services (AE&ES) Division of the Department of Transportation and Public Works for project management.
- \$93,369 to the Register of Deeds for MCAMLIS data maintenance.
- \$25,000 to the Department of Administrative Services for fiscal oversight.
- \$6,000 for meetings and other authorized travel.
- In 2008, MCAMLIS contractual services include agreements with the City of Milwaukee Department of Administration-Information and Technology Management Division (ITMD). The City of Milwaukee contract, in the amount of \$77,200, is to provide Cadastral and Street Address Database Management.
- In December 2004, the MCAMLIS Steering Committee approved a total appropriation of \$3,252,710 in existing MCAMLIS funds for a digital topographic mapping replacement project. This project will provide new topographic mapping and digital orthophotography for the entire county. This appropriation is to be divided over four years from 2005 to 2008.
- MCAMLIS has authorized up to \$450,000 for the Register of Deeds to convert microfiche images for the seven-year period 1988-1994 (approximately 2.7 million images). An additional \$200,000 is being provided to the ROD for improvements to computerized systems providing bulk access to data, linking multiple databases and eliminating property record verification backlogs.
- All departments are required to operate within their expenditure appropriations and their overall budgets. Pursuant to Section 59.60(12), Wisconsin Statutes, "No payment may be authorized or made and no obligation incurred against the county unless the county has sufficient appropriation for payment. No payment may be made or obligation incurred against an appropriation unless the director first certifies that a sufficient unencumbered balance is or will be available in the appropriation to make the payment or to meet the obligation when it becomes due and payable. An obligation incurred and an authorization of payment in violation of this subsection is void. A county officer who knowingly violates this subsection is jointly and severally liable to the county for the full amount paid. A county employee who knowingly violates this subsection may be removed for cause."

Summary MCAMLIS
12/7/2007

MCAMLIS Financial Report	AS OF 12/04/07	TOTALS
12/31/06 Balance (Balance Sheet)*	\$ 1,755,032.08	\$ 1,755,032.08
2007 Revenue Activity (YTD)**		
2007 YTD Activity \$1.00	\$165,652.00	
2007 YTD Activity \$4.00	\$662,628.00	
Other Revenue	\$26,394.00	
Total Revenue YTD 2007		\$854,674.00
2007 Expenditure Activity (YTD) including Encumbrances		
Personnel Services	\$0.00	
Services	\$1,555,072.24	
Commodities	\$0.00	
Capital Outlay	\$8,000.00	
Crosscharges	\$278,418.49	
Total Expenditure YTD 2007		(\$1,841,490.73)
BALANCE AS OF 12-05-07		\$ 768,215.35
Remaining Projected Revenues for 2007**	\$86,720.00	
Remaining Projected Expenditures for 2007***	(\$271,171.00)	
2007 Projected Balance		(\$184,451.00)
Remaining Balance as of 12/04/07 (Based on Budget/Projections)		\$ 583,764.35

Remaining Unrestricted Balances Based on 12-31-06 Close

12/31/06 Balance (Balance Sheet)*	\$ 1,755,032.08
Remaining Unrestricted Balance \$1.00 Fee	\$ 585,660.40
Remaining Unrestricted Balance \$4.00 Fee	\$ 1,169,371.68

Outstanding Authorized Commitments (Non-Encumbered) 2007-Onward

\$4.00 Fee

2007 YTD Project Expenditures for \$4 Fee (Encumbrances + Actual)	\$ (1,125,459.25)
Additional Authorized Expenditures	\$ (63,327.00)
2007 \$4 Fee Remaining Projected Expenditures***	\$ (43,367.79)
Remaining Unrestricted Balance \$4.00 Fee	\$ 1,169,371.68
2007 YTD Revenue for \$4 Fee	\$ 662,628.00
2007 \$4 Fee Remaining Projected Revenues**	\$ 69,372.00
Remaining Unrestricted Balance \$4.00 Fee	\$ 669,217.64
Remaining Restricted Balance \$4.00 Fee	\$ 732,544.64

\$1.00 Fee

2007 YTD Project Expenditures for \$1 Fee (Encumbrances + Actual)	\$ (568,626.06)
Additional Authorized Expenditures	\$ (152,087.15)
2007 \$1 Fee Remaining Projected Expenditures***	\$ (12,389.21)
Remaining Unrestricted Balance \$1.00 Fee	\$ 585,660.40
2007 YTD Revenue for \$1 Fee	\$ 165,652.00
2007 \$1 Fee Remaining Projected Revenues**	\$ 17,348.00
Remaining Unrestricted Balance \$1.00 Fee	\$ 35,557.98
Remaining Restricted Balance \$1.00 Fee	\$ 187,645.13

Note: The \$1 Fee Revenue can be used for no other purpose than Register of Deeds projects. Any amount not expended in this manner cannot be used for other MCAMLIS tasks.

* Balance includes both \$1.00 and \$4.00 fee revenue; Based on data provided by John La Fave, the balance sheet account was divided between the two funds.

** Projected revenues are based on current estimates and YTD projections. Total revenues for 2007 are anticipated to be \$915,000 (\$183,000 for the \$1 fee and \$732,000 for the \$4 fee). That is \$135,000 under the budgeted revenues for 2007. This does not include Other Revenue, which is reported separately above.

*** Projected expenditures for 2007 include the following: \$63,327 for the \$4 authorized balance amount, \$152,087 for the \$1 authorized balance amount, \$49,582 in remaining crosscharges and \$6,175 in miscellaneous outstanding budgeted expenditures. This is divided between the \$1 and \$4 fee based on use and budget.

Note: The amount of the reserve fund balance, as determined by the committee, is set at ten percent of current budgeted revenues. This equals \$105,000 in 2007, of which \$84,000 is for the \$4 fee and \$21,000 is for the \$1 fee.

\$4 Fee Summary

2007 Outstanding Commitments as of 12/04/2007

Organization 1923-Automated Land Information System
\$4.00 Fee

Vendor Name	Description	Amount Authorized	Amount Paid - Prior Years	2007 Amount Encumbered	Amount Paid 2007 YTD	Total Amount Paid 2007 (Encumbrances + Actual)	Remaining Unpaid Balance
SOUTHEASTERN WI REGIONAL	MCAMLIS Floodland Mapping Phase 2	\$ 436,000.00	\$ -	\$ 186,000.00	\$ 250,000.00	\$ 436,000.00	\$ -
SOUTHEASTERN WI REGIONAL	County Surveyor3	\$ 77,175.00	\$ -	\$ -	\$ 77,175.00	\$ 77,175.00	\$ -
SOUTHEASTERN WI REGIONAL	Topographic Mapping Project	\$ 3,252,710.00	\$ 2,890,885.00	\$ 39,925.00	\$ 321,900.00	\$ 361,825.00	\$ -
CITY OF MILWAUKEE	Cadastral Address Maintenance*	\$ 110,173.00	\$ 17,153.75	\$ 17,629.00	\$ 75,390.25	\$ 93,019.25	\$ -
CITY OF MILWAUKEE	Assesors Pictometry	\$ 8,014.00	\$ -	\$ -	\$ 8,014.00	\$ 8,014.00	\$ -
MILWAUKEE COUNTY	2007 Ortho Study	\$ 2,915.00	\$ -	\$ -	\$ 2,915.00	\$ 2,915.00	\$ -
MILWAUKEE COUNTY	Enterprise Address System	\$ 207,000.00	\$ 7,162.00	\$ 71,787.00	\$ 64,724.00	\$ 136,511.00	\$ 63,327.00
MILWAUKEE COUNTY	North Shore Fire Department	\$ 10,000.00	\$ -	\$ 10,000.00	\$ -	\$ 10,000.00	\$ -
	TOTAL	\$ 4,103,987.00	\$ 2,915,200.75	\$ 325,341.00	\$ 800,118.25	\$ 1,125,459.25	\$ 63,327.00

Data from Milwaukee County Advantage System and Gary Drent, A&E as of December 4, 2007

Notes

* The Cadastral Mapping Project had an original authorization of \$74,915. The current project authorization is \$110,173 due to the Steering Committee approving a request in November 2006 that increased expenditure authority for this project by \$35,258.

Authorized \$1.00 Fee Projects

\$1.00 Fee Authorized Projects as of December, 2007

Year Authorized	Project Description	Amount Authorized	Amount Paid 2002-2006	Amount Paid 2007 YTD	Amount Encumbered 2007	2007 Total	Total Amount Paid for Project (2002-2007)	Remaining Unpaid Balance
						Amount Paid (Encumbrances + Actual)		
2002	Large Format Scanner	\$13,090.00	\$13,090.00	\$0.00	\$0.00	\$0.00	\$13,090.00	\$0.00
2003	Improvements to Computer System	\$240,000.00	\$240,000.00	\$0.00	\$0.00	\$0.00	\$240,000.00	\$0.00
2003	Electronic Recording	\$45,000.00	\$30,550.81	\$0.00	\$0.00	\$0.00	\$30,550.81	\$0.00
2003	External Hard Drive/Two SNAP Servers	\$40,000.00	\$32,762.65	\$7,237.35	\$0.00	\$7,237.35	\$40,000.00	\$0.00
2003/2005	Digital Images; Conversion of Microfiche*	\$400,000.00	\$193,659.21	\$206,340.79	\$0.00	\$206,340.79	\$400,000.00	\$0.00
2005	Scanning A Card	\$50,000.00	\$24,014.55	\$2,500.00	\$0.00	\$2,500.00	\$26,514.55	\$23,485.45
2005	Improvements to Computer System II**	\$450,000.00	\$118,850.38	\$251,902.76	\$79,246.86	\$331,149.62	\$450,000.00	\$0.00
2007	Improvements to Computer System III	\$150,000.00	\$0.00	\$10,306.83	\$11,091.47	\$21,398.30	\$21,398.30	\$128,601.70
Total		\$1,388,090.00	\$652,927.60	\$478,287.73	\$90,338.33	\$568,626.06	\$1,221,553.66	\$152,087.15

Data from John La Fave, Register of Deeds as of 12/04/07

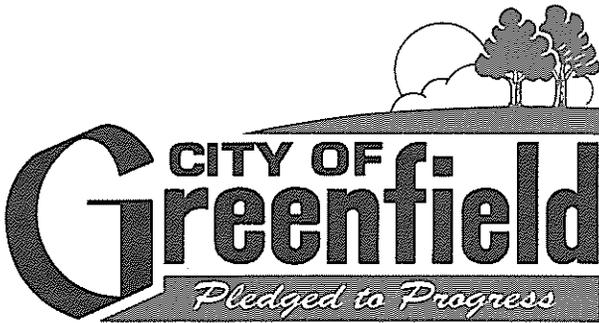
Notes

* The conversion of microfiche project had an original authorization of \$200,000. The current project authorization is \$400,000 due to the Steering Committee approving three requests (at meetings held on 11/1/05, 8/22/06 and 3/6/07) that increased and then decreased expenditure authority for this project.

** The 2005 authorization for the improvements to the computer system was \$150,000. At the August 2006 and again at the March 2007 meeting, the Steering Committee approved a total \$300,000 increase in expenditure authority for this project.

12/7/2007

2007 Fiscal Report as of 12/3/2007 - MCAMLIS					
Rev / Exp	Revenue / Expense Name	Budget Amount	Actual Amount	Encumbrance	Net Amount
2299	OTHER ST GRANTS & REIMBUR	\$ -	\$ 22,799.00	\$ -	\$ 22,799.00
ST GRANTS & REIMBURSEMENT		\$ -	\$ 22,799.00	\$ -	\$ 22,799.00
3237	RETAINED FEES -- \$4.00 PORTION	\$ 840,000.00	\$ 662,628.00	\$ -	\$ (177,372.00)
3238	RETAINED FEES -- \$1.00 PORTION	\$ 210,000.00	\$ 165,652.00	\$ -	\$ (44,348.00)
RECORD & FILING FEES		\$ 1,050,000.00	\$ 828,280.00	\$ -	\$ (221,720.00)
4999	OTHER MISC REVENUE	\$ 1,000.00	\$ 3,595.00	\$ -	\$ 2,595.00
OTHER REVENUE		\$ 1,000.00	\$ 3,595.00	\$ -	\$ 2,595.00
Total Revenues		\$ 1,051,000.00	\$ 854,674.00	\$ -	\$ (196,326.00)
5001	DIRECT LABOR CHARGED	\$ -	\$ -	\$ -	\$ -
PERSONAL SERVICES		\$ -	\$ -	\$ -	\$ -
6050	CONTRACT PERS SERV-SHORT	\$ -	\$ 24,223.65	\$ -	\$ (24,223.65)
6080	POSTAGE	\$ -	\$ 37.20	\$ -	\$ (37.20)
6147	PROF. SERV.-DATA PROCESS	\$ 50,000.00	\$ -	\$ 35,000.00	\$ 15,000.00
6148	PROF. SERV-RECURRING OPER	\$ 2,344,622.00	\$ 522,867.85	\$ 336,243.92	\$ 1,485,510.23
6637	R/M COMPUTER EQUIP	\$ 46,165.00	\$ 549,064.54	\$ 82,771.45	\$ (585,670.99)
6812	MEETINGS OTHER AUTH TRAVL	\$ 6,000.00	\$ 4,825.12	\$ -	\$ 1,174.88
6999	SUNDRY SERVICES	\$ -	\$ 38.51	\$ -	\$ (38.51)
SERVICES		\$ 2,446,787.00	\$ 1,101,056.87	\$ 454,015.37	\$ 891,714.76
7915	COMPUTER SOFTWARE	\$ 5,000.00	\$ -	\$ -	\$ 5,000.00
COMMODITIES		\$ 5,000.00	\$ -	\$ -	\$ 5,000.00
8558	COMPUTER EQUIPMENT-REPL>\$500	\$ 8,000.00	\$ -	\$ 8,000.00	\$ -
CAPITAL OUTLAYS		\$ 8,000.00	\$ -	\$ 8,000.00	\$ -
9706	PRO SERV DIV SERVICES	\$ 303,000.00	\$ 255,501.86	\$ -	\$ 47,498.14
9742	DAS SERVICES	\$ 25,000.00	\$ 22,916.63	\$ -	\$ 2,083.37
CROSSCHARGES		\$ 328,000.00	\$ 278,418.49	\$ -	\$ 49,581.51
Total Expenses		\$ 2,787,787.00	\$ 1,379,475.36	\$ 462,015.37	\$ 946,296.27
Grand Totals		\$ (1,736,787.00)	\$ (524,801.36)	\$ (462,015.37)	\$ 749,970.27



Engineering Department

PH: (414) 329-5325 FAX: (414) 543-9615

October 19th, 2007

William Shaw
MCAMLIS Project Manager
2711 West Wells Street, Rm. 426
Milwaukee, WI 53208

RE: Aug. 29th, 2007 MCAMLIS / Diggers Hotline letter

Dear Mr. Shaw:

In response to your August 29th, 2007 letter addressed to Mayor Neitzke, the City of Greenfield believes that we are already in substantial compliance with your request, and that the adoption of an ordinance or resolution by the City is not needed.

As part of Certified Survey Map (CSM) approvals, the City of Greenfield forwards documents to Carla Rice, Tax Listing Supervisor, Milwaukee County Register of Deeds Office. As part of our plat approvals, we require that Developer forward documents to the Milwaukee County Department of Public Works AE and ES Division. I believe that the plat documents are also forwarded to Carla Rice in the Register of Deeds Office. Upon completion of Milwaukee County reviews, we are provided with a copy of the respective review comments.

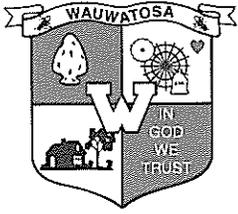
We believe that our existing procedures are substantially equivalent to your request. If not, please provide us with a clear road map for CSM and subdivision plat distribution within Milwaukee County. We can adjust our procedures once we have a better understating of the issues.

Should you have any questions on this matter, please contact me by phone at 414-329-5323, or via e-mail at JeffT@GreenfieldWI.US.

Sincerely,
CITY OF GREENFIELD

Jeffrey S. Tamblyn
Senior GIS Technician

cc: Michael Neitzke, Mayor
Rick Sokol, Dir. of Neighborhood Services
Chuck Erickson, City Planner
Curt Bolton, City Engineer
File - MCAMLIS



CITY OF WAUWATOSA

7725 West North Avenue
Wauwatosa, Wisconsin 53213
Phone: (414) 479-8917
Fax (414) 479-8989
www.wauwatosa.net

Carla A. Ledesma, CMC
City Clerk

November 7, 2007

William Shaw, MCAMLIS Project Manager
Milwaukee County Land Information Office
2711 W. Wells Street Room 426
Milwaukee, WI 53208

RE: County procedure for routing subdivision or Certified Survey plats

Dear Mr. Shaw:

The Common Council of the City of Wauwatosa, at their meeting held on November 6, 2007, has placed on file the request by the Milwaukee County Land Information office to route all subdivisions and Certified Survey plats to the Land Information office.

Sincerely,

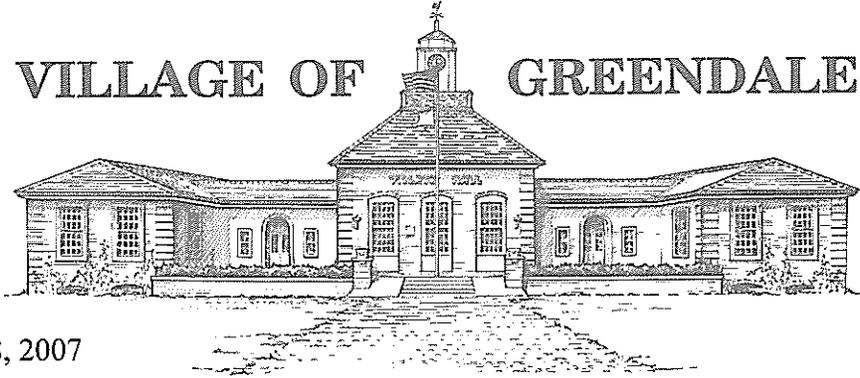
Carla A. Ledesma, CMC

Carla A. Ledesma, CMC
City Clerk

Enc.



VILLAGE OF GREENDALE



6500 NORTHWAY
P.O. BOX 257
GREENDALE, WI 53129-0257
414-423-2100
FAX 414-423-2107
www.greendale.org

October 8, 2007

William Shaw, MCAMLIS Project Manager
Milwaukee County Land Information Office
Milwaukee County Department of Public Works
2711 W. Wells Street, Rm 426
Milwaukee, WI 53208

Dear Mr. Shaw:

Enclosed is a copy of the Resolution that was passed by the Greendale Village Board on October 2, 2007 supporting your effort to obtain subdivision plats and certified survey maps upon approval.

If you have any questions on this matter, please contact our office.

Very truly yours,

Todd Michaels
Acting Village Manager

VILLAGE OF GREENDALE

RESOLUTION NO. R2007-07

**A RESOLUTION REQUIRING THE ROUTING OF ALL GEO-REFERENCED
SUBDIVISION PLATS AND CERTIFIED SURVEY MAPS TO THE COUNTY LAND
INFORMATION OFFICE UPON APPROVAL**

WHEREAS, there is a need to have the most current information in the Diggers Hotline database to ensure public safety when excavating or construction work proceeds; and

WHEREAS, an investigation into opportunities to improve the currency of street and address information for Diggers Hotline resulted in a process that will significantly improve the currency of information in the one-call land information system; and

WHEREAS, the proposal recommends that an ordinance require the routing of all subdivision plats and certified survey maps (in formats currently acceptable to the community) to the County Land Information Office upon approval of the final plat or certified map; and

WHEREAS, building permits not be issued until said routing has been accomplished; and

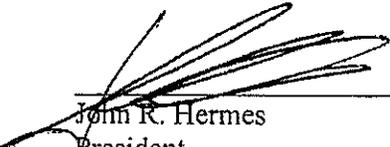
WHEREAS, the County Land Information Office will create an electronic file using a prescribed format that was established as a result of the investigation, and route that electronic file to Diggers Hotline for their processing; and

WHEREAS, adoption of this resolution will benefit municipalities by improving a safe environment for excavators and constituents and lessening the likelihood of damage to buried or overhead infrastructure.

NOW, THEREFORE, BE IT RESOLVED, by the Village President and Board of Trustees of the Village of Greendale, Wisconsin, that all Village staff responsible for the review and administration of subdivision plats and certified survey maps shall see to it and are hereby directed to deliver all subdivision plats and certified survey maps (in formats customarily utilized by the Village of Greendale) to the County Land Information Office following final approval thereof and upon recording.

BE IT FURTHER RESOLVED, that in the event the Village Board determines in the future that the directed routing procedure is more appropriately proscribed within an ordinance within the Municipal Code, it shall entertain such legislation, accordingly.

PASSED AND APPROVED, this 2nd day of October, 2007, by the Village Board of Trustees, Village of Greendale, County of Milwaukee, Wisconsin.



John R. Hermes
President

ATTEST:



Todd K. Michaels
Clerk-Treasurer

R21 E

R22 E

Digger's Hotline Plan Approval Process December 2007 Compliance Status

T8 N

- NO RESPONSE
- IN PROGRESS
- COMPLIANT

*By Resolution, Ordinance,
or Administrative Rule*

T7 N

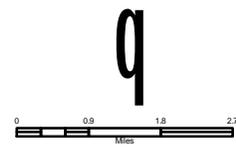
T6 N

T5 N

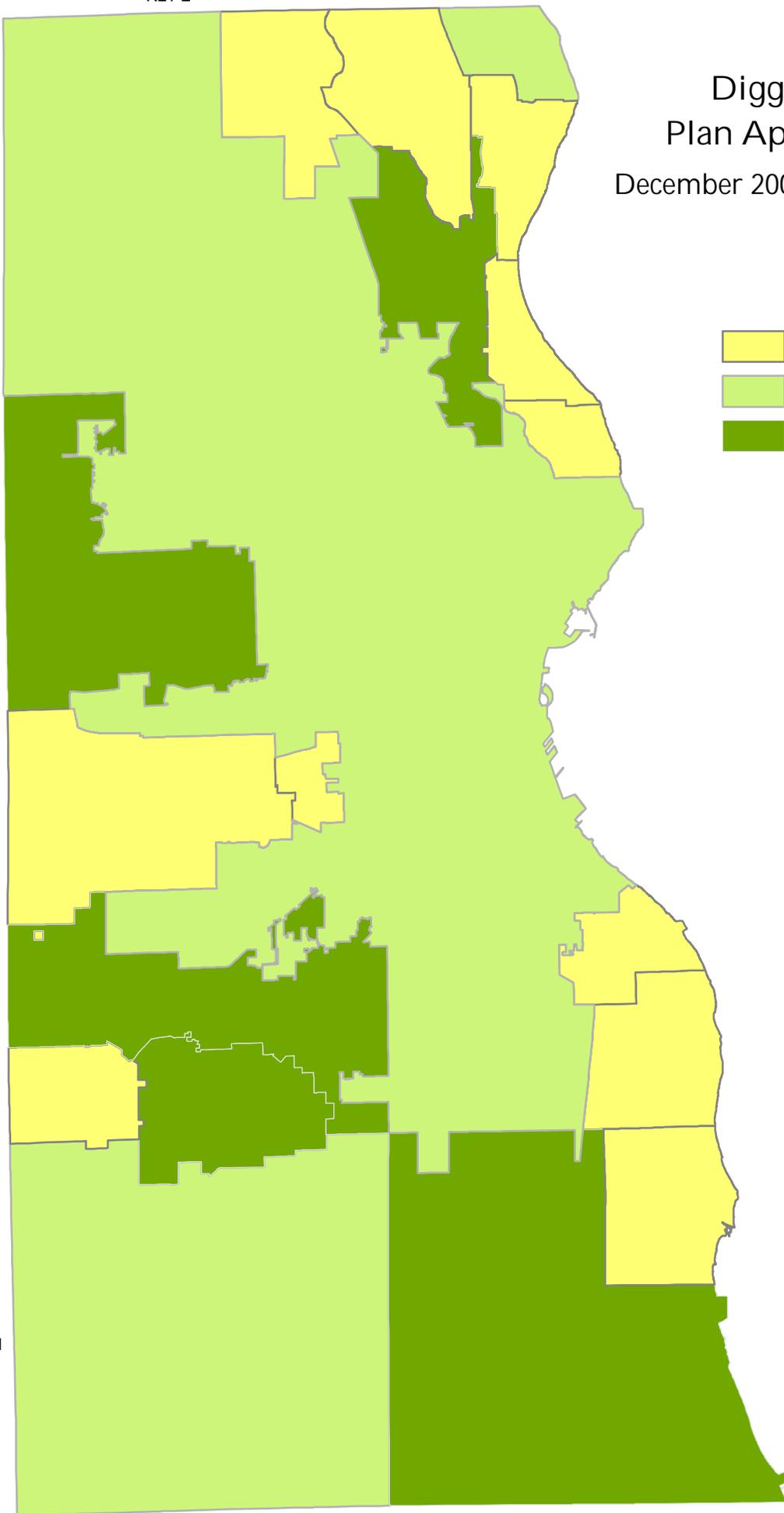
R21 E

R22 E

R23 E



Source: MCAMLIS Project Manager



MILWAUKEE COUNTY FISCAL NOTE FORM

DATE: 12/06/07

Original Fiscal Note

Substitute Fiscal Note

SUBJECT: Request for funds for the Oblique Imagery Technology Project

FISCAL EFFECT:

No Direct County Fiscal Impact

Existing Staff Time Required

Increase Operating Expenditures

(If checked, check one of two boxes below)

Absorbed Within Agency's Budget

Not Absorbed Within Agency's Budget

Decrease Operating Expenditures

Increase Operating Revenues

Decrease Operating Revenues

Indicate below the dollar change from budget for any submission that is projected to result in increased/decreased expenditures or revenues in the current year.

	Expenditure or Revenue Category	Current Year (2007)	Subsequent Year (2008)
Operating Budget	Expenditure	0	\$52,510/\$104,750
	Revenue	0	0
	Net Cost	0	\$52,510/\$104,750
Capital Improvement Budget	Expenditure		
	Revenue		
	Net Cost		

DESCRIPTION OF FISCAL EFFECT

In the space below, you must provide the following information. Attach additional pages if necessary.

- A. Briefly describe the nature of the action that is being requested or proposed, and the new or changed conditions that would occur if the request or proposal were adopted.
- B. State the direct costs, savings or anticipated revenues associated with the requested or proposed action in the current budget year and how those were calculated. If annualized or subsequent year fiscal impacts are substantially different from current year impacts, then those shall be stated as well. In addition, cite any one-time costs associated with the action, the source of any new or additional revenues (e.g. State, Federal, user fee or private donation), the use of contingent funds, and/or the use of budgeted appropriations due to surpluses or change in purpose required to fund the requested action.
- C. Discuss the budgetary impacts associated with the proposed action in the current year. A statement that sufficient funds are budgeted should be justified with information regarding the amount of budgeted appropriations in the relevant account and whether that amount is sufficient to offset the cost of the requested action. If relevant, discussion of budgetary impacts in subsequent years also shall be discussed. Subsequent year fiscal impacts shall be noted for the entire period in which the requested or proposed action would be implemented when it is reasonable to do so (i.e. a five-year lease agreement shall specify the costs/savings for each of the five years in question). Otherwise, impacts associated with the existing and subsequent budget years should be cited.
- D. Describe any assumptions or interpretations that were utilized to provide the information on this form.

A. The MCAMLIS Steering Committee has been presented with a proposal for Oblique Image Technology. This project seeks to acquire multi-resolution oblique image software, Countywide digital imagery, training and professional services. The imagery, training and software will be made available to Milwaukee County Municipalities and other governmental units for purposes of integrating oblique imagery technology into their operations.

B. For this project there are two options in front of the Committee:

Option 1 (Pictometry): Requires \$90,020 over 2 years (\$52,510 in 2008 and \$35,510 in 2009) for imagery acquisition, digital image processing, specialized software and professional services to assist deployment. This option includes 2006 spring photography at 6" resolution and 2008 spring photography at resolutions of 4" (neighborhood) and 12" (community) imagery.

Option 2 (MultiVision): Requires \$104,750 in 2008 for imagery acquisition, digital image processing, specialized software and professional services to assist deployment. This option includes 2008 spring photography at 6" resolution.

- C. Approval of these actions would result in the expenditure of either \$52,510 or \$104,750 in 2008 from the \$4 fee account. These project costs are not included in the 2008 MCAMLIS Budget but the December fiscal report is projecting a unrestricted surplus of \$669,218 for the \$4 fee for 2007 therefore, since the funds will be deposited into the Balance Sheet Account at the close of 2007, sufficient funds will be available in 2008 to cover either option listed above.
- D. No assumptions other than the reported cost of the project were made for this report. It is assumed that 2009 costs would be included in the 2009 Budget.

Prepared By: Alexandra Kotze, Milwaukee County, DAS- Fiscal Affairs



DEPARTMENT OF TRANSPORTATION & PUBLIC WORKS

MILWAUKEE COUNTY LAND INFORMATION OFFICE

2711 West Wells Street, Rm 427, Milwaukee, WI 53208 (414) 278-2176

TO: MCAMLIS Steering Committee
FROM: William C. Shaw, MCAMLIS Project Manager
DATE: December 10, 2007
SUBJECT: MCAMLIS STAFF REPORT TO THE MCAMLIS STEERING COMMITTEE
REGARDING THE ACQUISITION OF OBLIQUE IMAGERY PRODUCTS

BACKGROUND

Oblique Imagery Products have caught the attention of a wide range of land information user constituencies throughout Milwaukee County including the Intergovernmental Coordinating Council (ICC), Milwaukee County Sheriffs Department, City of Milwaukee Police and Assessors Departments. Of primary interest is the use of this technology's capacity to view structure elevations and other resolvable topographic features from each cardinal direction, the crisp color image quality, and the ease of use supported by the availability of viewing software. Of particular interest (especially for assessor, planning, permitting, and public safety) is the ability to make ready use of existing GIS data e.g., property boundaries and street centerlines, to aid in navigating to areas of interest and delineation of property feature boundaries for a myriad of public sector operational needs.

Included as background for this report is a chronology of the MCAMLIS Steering Committee deliberations over two years leading up to this evaluation and recommendation.

Notwithstanding Milwaukee County has benefited over the intervening timeframe through access to a limited capability either via free Internet access or via licensed usage of Pictometry by Milwaukee County Assessors. Evaluations by MCAMLIS Staff, City of Milwaukee staff and by survey of attendees representing Milwaukee county units of government have determined that Oblique Imagery and associated technologies would be well received and in many instances help to expand the use of MCAMLIS products overall.

Following a very favorable report provided by the City of Milwaukee staff at the MCAMLIS September 25th meeting, the Committee moved to request that MCAMLIS Staff prepare an Oblique Imagery Project Proposal for future Committee consideration.

As such, this report sets forth an evaluation of suitable vendor technology, timeframe, and costs leading to recommendations by MCAMLIS Staff to the MCAMLIS Steering Committee regarding a proposed Oblique Imagery Project. The following table chronicles the MCAMLIS Steering Committee consideration of Oblique Imagery technology to date.

MCAMLIS Meeting	Agenda Item	Action
65 th Meeting – 11/1/2005	New Business: request by the City of Milwaukee recommending Consideration of purchase of Pictometry imagery license	<ul style="list-style-type: none">• requested a demonstration at it's next meeting
66 th Meeting	Old Business: request by the City of	<ul style="list-style-type: none">• tabled and requested that staff

MCAMLIS Meeting	Agenda Item	Action
– 2/7/2006	Milwaukee recommending Consideration of purchase of Pictometry imagery license	research this technology and provide the Committee with a report and recommendation
		<ul style="list-style-type: none"> • 03/06 Pictometry Inc., acquired 6" oblique imagery covering Milwaukee County and made it available on the Web
		<ul style="list-style-type: none"> • City of Milwaukee Assessor acquired a limited license to use Pictometry imagery for Milwaukee County assessor functions
69 th Meeting – 11/28/2006	Old Business: request by the City of Milwaukee recommending Consideration of purchase of Pictometry imagery license	<ul style="list-style-type: none"> • Accepted staff report and recommendation to underwrite the 1st year of the City of Milwaukee Assessors Pictometry License
72 nd Meeting – 9/25/2007	Old Business: request by the City of Milwaukee recommending Consideration of purchase of Pictometry imagery license	<ul style="list-style-type: none"> • Accepted the City of Milwaukee Assessor report and findings of the assessors use of Pictometry and; • requested staff to prepare a report comparing vendor alternatives and provide a final recommendation to the committee
		<ul style="list-style-type: none"> • Staff facilitated a demonstration of two oblique imagery vendors

EVALUATION

As part of the vendor evaluation an Oblique Imagery Product Review Committee was formed, composed of the following members:

- William Shaw, MCAMLIS Project Manager
- Nancy Olson, City of Milwaukee and MCAMLIS Steering Committee Member
- John Bennett, Intergovernmental Coordination Council and MCAMLIS Steering Committee Member
- John McDougall, GIS Manager, SEWRPC

The committee met to discuss specific evaluation criteria and provided staff their input in the formulation of a list of 'Product Analysis Areas' for further consideration.

Each of two possible vendors were invited to an open forum attended by MCAMLIS Steering Committee members and local community contacts interested in further understanding the

capabilities and the advantages/disadvantages of the vendors, offerings. At the end of the demonstration, attendees were surveyed; the results of the survey are attached to this report.

In addition, the 'Product Analysis Areas' formulated by the Review Committee were submitted to the each of the vendors for their response and a summary of findings that were obtained from each are included in the table below.

Product Analysis	Pictometry	MultiVision
Product Licensing option(s) including distribution restriction	Imagery and Software licensed to governmental units w/in Milwaukee County. Pictometry retains rights to resell imagery	Software
Product Ownership option(s) including distribution restrictions	Imagery owned by Milwaukee County with or w/out Pictometry reselling rights	Imagery exclusively owned exclusively by Milwaukee County
Product Support - implementation, after sale	Installation, Training (System Admin, Advanced User, User), telephone support, and 2 yrs. Disaster Imagery Coverage	Installation (\$6,000 per server >1), Training (System Admin, end-user training), 1yr. telephone support and 1yr. Disaster Imagery Coverage
Workstation software tools and accessories	Viewing Software, Change Analysis, Pictometry ArcGIS extension w-Two-way capability, ArcSDE Integration, 3D Modeler	Viewing Software, 3D Modeling, Change Analysis, One-way Standard API
Web based software tools and accessories	ArcIMS, ArcGIS Server Integration, 3 rd party Integration SDK, Tile Server	ArcIMS
Software Compatibility – GIS - ESRI, CAD- MicroStation, AutoCAD	ESRI and others using 3 rd party integration SDK	ESRI and others using One-way Standard API
Image Accuracy – positional and measurement. Provide a description of your approach e.g., what methods are used to guarantee accuracy standards, to what degree does your product maintain accuracies associated with existing planimetric and topographic data?	Proprietary Direct Geo-Registration of camera position, orientation and exposure time. Image calibration is post processed using client DTM to enhance accuracy	USGS/EROS Standard camera calibration, referenced oblique image to client ortho and DTM
Image Clarity	Proprietary camera sensors	PhotoModeler Calibration
Image Delivery – typical schedule	60 days	60 days
Client staff requirement – deployment(s) and ongoing support	Enhanced installation using supplied Configuration Editor, telephone and limited onsite support through a Regional Technical Manager	Technical phone and email
Local network and workstation hardware/software requirements	Network server, 140gb storage, standard workstation	Network server, standard workstation, storage?
Web server hardware/software requirements	Data server and web server required. Hosting options are available. ArcGIS Server Options have not been fully released	Web server
Price estimate for:	4” - \$68,970	3” - \$159,950

Product Analysis	Pictometry	MultiVision
<ul style="list-style-type: none"> • (242 sq. miles using available NMAS 1:100 DTM – provided in 93 10km tiled .dgn formatted files, also in seamless ESRI Geodatabase File Format) • at nominal ground resolution of 3”, 6” and 9” include optional pricing as may be required depending on product options listed above 	6” - \$56,870 8” - \$18,150 12” - \$6,050	6” - \$89,750 9” - \$69,950

INTEGRATION WITH MCAMLIS PRODUCTS

Either option is, for most purposes, a standalone product having little similarity to prior MCAMLIS program efforts. Notwithstanding there are considerable opportunities to make use of MCAMLIS products along side either vendors image technology.

DEPLOYMENT

Initial deployment and ongoing support need to be considered with regard to the addition of new technologies to the MCAMLIS suite of supported products. As with each of the existing MCAMLIS base mapping products there are three (3) basic methods of deployment, either; 1) via a secure web access; 2) a local network; and/or 3) via a standalone workstation.

Notwithstanding, a Countywide Web deployment would be the preferred method to expose this technology to provide the greatest overall benefit. This is especially true if the MCAMLIS objective is to provide for uniform and ubiquitous user access and to minimize the need for managing ongoing support. Alternatively, it is not entirely clear that the suburban communities will be able to make ready use of locally installed copies of either imagery or software without incurring at least some additional costs. Ultimately these costs could be minimized and would depend on local demand and expectations.

ONGOING SUPPORT

As to ongoing support, it is unclear what may be expected or required of MCAMLIS if access to the imagery is not centrally supported via the web. In this regard there are logistical and material issues that need to be considered e.g., determining who or what organizations would receive copies, what software and hardware capabilities and compatibilities exist, and/or whether there is a need or desire for standardized components and/or whether these would be expected to be procured and managed in an organized fashion. With nineteen (19) communities each having Public Safety entities including police, fire and EMS; administrative and operational functions including assessor, building inspection and public works; and public information and health and human services responsibilities it could easily become onerous to manage. Managing this will undoubtedly come at some expense, especially if deployment limitations and expectations are not meshed properly.

With regard to the web environment the incremental cost of adding Oblique Imagery is estimated to be \$5k to \$10k. Beyond that, it can be expected that ongoing integration and support of a web based Oblique Imagery environment would incur an annual cost of between \$3k and \$7k.

OPTIONS

Project Definition:

Oblique Image Technology - Project to acquire multi-resolution oblique image software, Countywide digital imagery, training and professional services as may be approved by the MCAMLIS Steering Committee. The imagery, training and software will be made available to Milwaukee County Municipalities and other governmental units for purposes of integrating oblique imagery technology into their operations.

1. Pictometry, Inc. \$90,020 over 2 yrs (\$52,510 in 2008 - \$35,510 in 2009) for imagery acquisition, digital image processing, specialized software and professional services to assist deployment. This option includes 2006 spring photography at 6" resolution and 2008 spring photography at resolutions of 4" (neighborhood) and 12" (community). Payment will be made over 2 years (08-09) and the City of Milwaukee Assessors 2nd year Pictometry license obligation of \$8,016 due on 1/15/08 will be waived.

Item	Estimated Cost		Total
	2008	2009	
4" Imagery	\$34,485	\$34,485	\$68,970
12" Imagery	\$3,025	\$3,025	\$6,050
Professional Services	\$15,000		\$15,000
Total	\$52,510	\$37,510	\$90,020

2. MultiVision USA \$104,750 in 2008 for imagery acquisition, digital image processing, specialized software and professional services to assist deployment. This option includes 2008 spring photography at 6" resolution. Payment will be made in 2008 and the City of Milwaukee Assessors 2nd year Pictometry license obligation of \$8,016 due on 1/15/08 will not be waived.

Item	Estimated Cost		Total
	2008	2009	
6" Imagery	\$89,750		\$89,750
Professional Services	\$15,000		\$15,000
Total	\$104,750	\$0	\$104,750

RECOMMENDATION

Staff recommends approval of Option 1: Pictometry, Inc. In consideration of this option it was determined that while both Pictometry and MultiVision provide a comparable image product, Pictometry provides its product at both a lower cost and a higher resolution Pictometry's offer is the best combination of image resolution, technical compatibility, support and overall value compared with MultiVision. In addition to these qualities, by choosing Pictometry MCAMLIS will be able to obtain unrestricted use of 2006 6" resolution images as well as allowing the City of Milwaukee Assessors license fees for 2008 to be waived.

MCAMLIS Oblique Image Survey Tabulation

Demonstration conducted November 8th, 2007

General Impression

Do you find that this technology would be useful and used in your organization?

definitely 13

possibly 2

Demonstration

Did you find the demonstration helpful and is either vendor a preferred option?

yes 8

yes - Pictometry 5

yes - MultiVision 2

Currency

Could the currency of the oblique digital aerial image product(s) be important to your operations?

bi-annually 6

yearly 5

every 5 years 2

Accuracy

Could the accurate placement of objects in the view using oblique digital aerial image product(s) be important to your operations?

+/- .5ft 8

+/- 1ft 5

+/- 5ft 1

+/- 2ft 1

Resolution

Is the ability to view objects clearly important to your operations?

6" 11

3" 2

9" or greater 2

Software Integration

How important to your operations is the ability to manipulate and view other data along with oblique digital aerial image products?

Very Important 14

Not Important 1

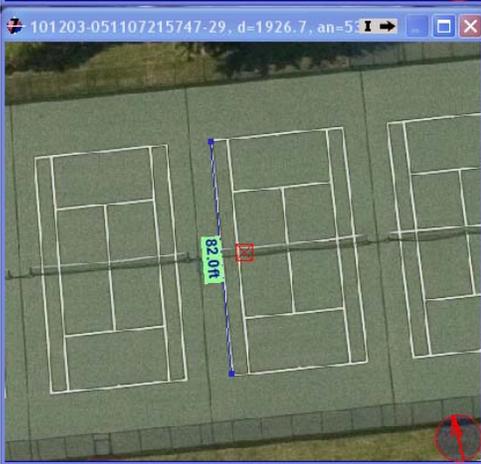
Frequency of Use

How often do you use digital aerial image products now in your operations?

regularly 9

extensively 5

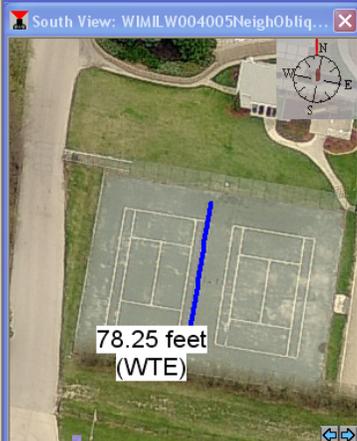
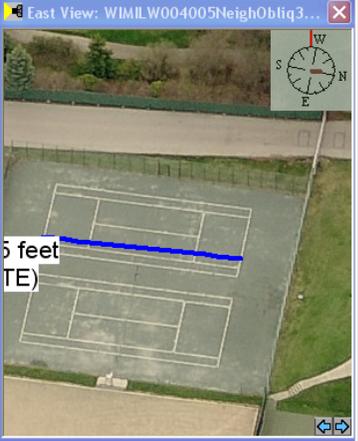
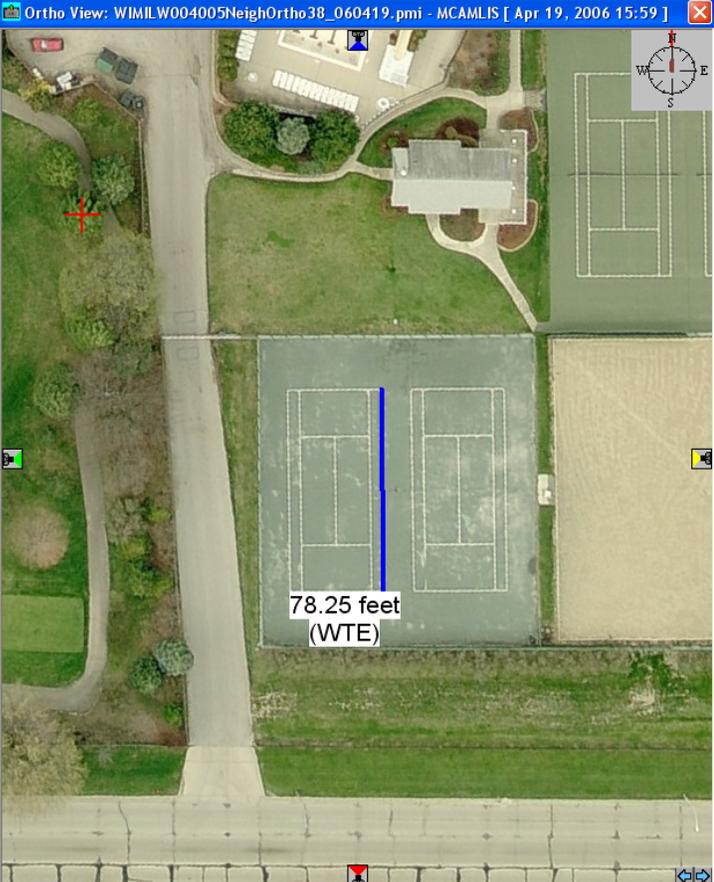
seldom 1

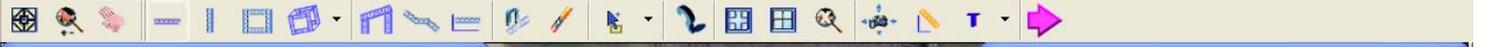


Orthophoto

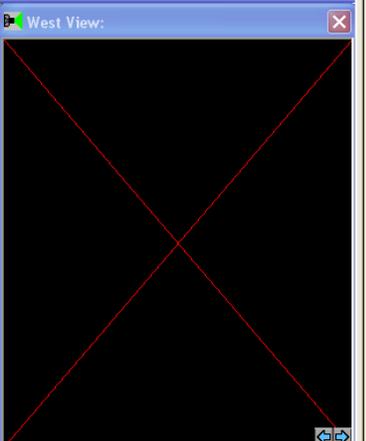
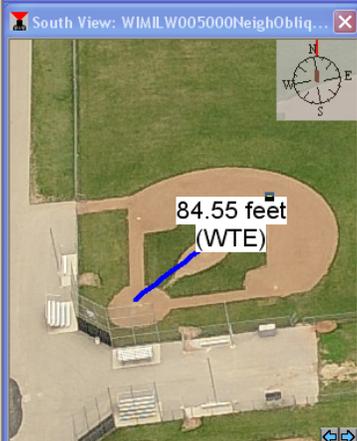
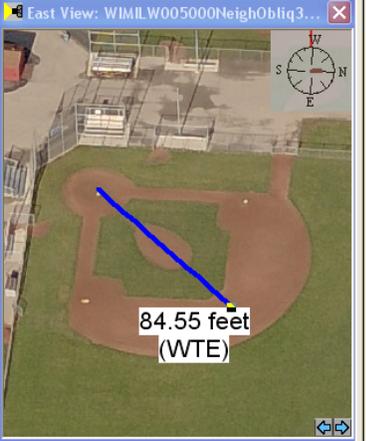
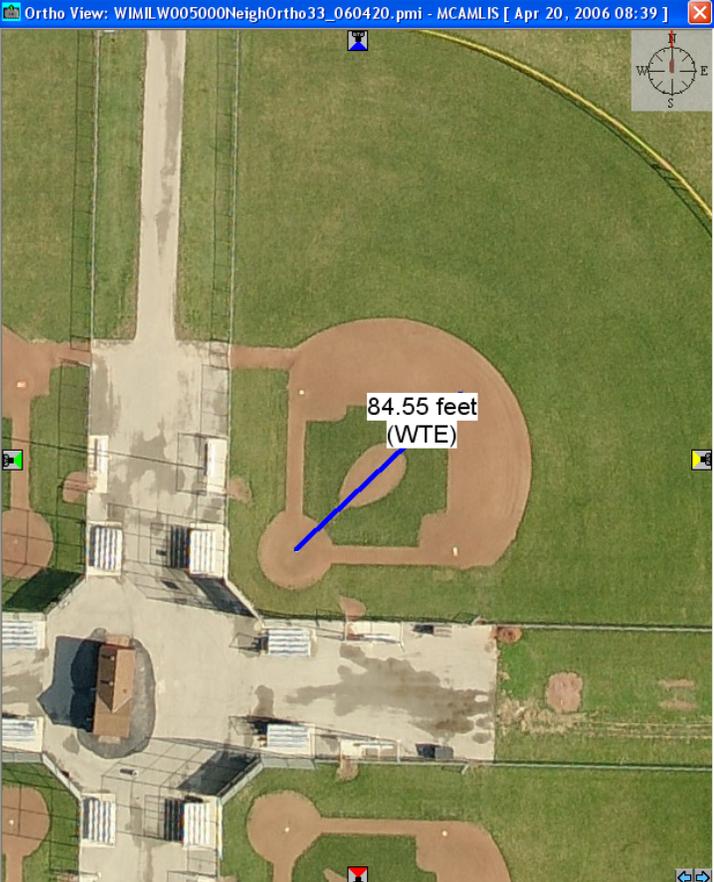
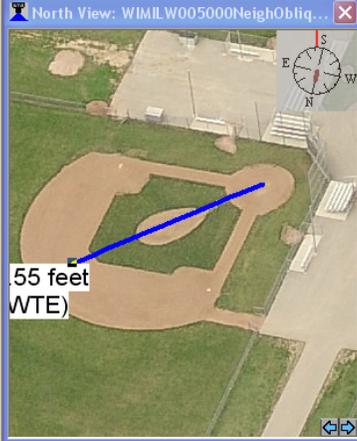
Ready | x = 2546951.85, y = 488463.98, z = 777.79

Orthophoto scale = 1:2462.5





Orthophoto Ready x = 2547180.38, y = 486730.83, z = 772.32 Orthophoto scale = 1:5471.9



MILWAUKEE COUNTY FISCAL NOTE FORM

DATE: 12/06/07

Original Fiscal Note

Substitute Fiscal Note

SUBJECT: Request for funds for Various Contracts for 2008 MCAMLIS

FISCAL EFFECT:

No Direct County Fiscal Impact

Existing Staff Time Required

Increase Operating Expenditures

(If checked, check one of two boxes below)

Included Within Agency's Budget

Not Absorbed Within Agency's Budget

Decrease Operating Expenditures

Increase Operating Revenues

Decrease Operating Revenues

Indicate below the dollar change from budget for any submission that is projected to result in increased/decreased expenditures or revenues in the current year.

	Expenditure or Revenue Category	Current Year (2007)	Subsequent Year (2008)
Operating Budget	Expenditure	0	See Below
	Revenue	0	0
	Net Cost	0	See Below
Capital Improvement Budget	Expenditure		
	Revenue		
	Net Cost		

DESCRIPTION OF FISCAL EFFECT

In the space below, you must provide the following information. Attach additional pages if necessary.

- A. Briefly describe the nature of the action that is being requested or proposed, and the new or changed conditions that would occur if the request or proposal were adopted.
 - B. State the direct costs, savings or anticipated revenues associated with the requested or proposed action in the current budget year and how those were calculated. If annualized or subsequent year fiscal impacts are substantially different from current year impacts, then those shall be stated as well. In addition, cite any one-time costs associated with the action, the source of any new or additional revenues (e.g. State, Federal, user fee or private donation), the use of contingent funds, and/or the use of budgeted appropriations due to surpluses or change in purpose required to fund the requested action.
 - C. Discuss the budgetary impacts associated with the proposed action in the current year. A statement that sufficient funds are budgeted should be justified with information regarding the amount of budgeted appropriations in the relevant account and whether that amount is sufficient to offset the cost of the requested action. If relevant, discussion of budgetary impacts in subsequent years also shall be discussed. Subsequent year fiscal impacts shall be noted for the entire period in which the requested or proposed action would be implemented when it is reasonable to do so (i.e. a five-year lease agreement shall specify the costs/savings for each of the five years in question). Otherwise, impacts associated with the existing and subsequent budget years should be cited.
 - D. Describe any assumptions or interpretations that were utilized to provide the information on this form.
-
- A. The MCAMLIS Steering Committee is considering approval of various contracts for 2008. They include the following:
 - a) Milwaukee County Department of Administrative Services for contract review, contract encumbering and payment processing, contract monitoring, monthly cash flow statements and general fiscal oversight - \$25,000.
 - b) Milwaukee County Department of Transportation and Public Works (DTPW) for professional staff services (including services of a Project Manager), day-to-day operations services and management of any and all sub-contracts - \$318,685 (\$225,316 for DTPW and \$93,369 for Register of Deeds).
 - c) City of Milwaukee Department of Administration, Information and Technology Management Division for professional and technical information technology services including maintenance on cadastral maps and street address database - \$76,977.
 - d) Southeastern Wisconsin Regional Planning Commission for professional staff services as necessary to act in the capacity of County Surveyor, record and maintain a file of all land survey plats, perpetuate the corners of the US Public Land Survey system throughout Milwaukee County, provide guidance, counsel and technical support to staff - \$77,175.
 - B. & C. See above. All four of the above-mentioned contracts are included in the 2008 Adopted MCAMLIS Budget therefore there are no additional costs of funds needed at this time.
 - D. No assumptions other than the reported cost of the contracts were made for this report. It is assumed there are no additional costs in future years.

Prepared By: Alexandra Kotze, Milwaukee County, DAS- Fiscal Affairs

AGREEMENT

between

THE MILWAUKEE COUNTY DEPARTMENT OF TRANSPORTATION AND PUBLIC WORKS AND THE MILWAUKEE COUNTY AUTOMATED MAPPING AND LAND INFORMATION SYSTEM STEERING COMMITTEE

THIS AGREEMENT, entered into this ___ day of _____, 200_, by and between the Milwaukee County Department of Transportation and Public Works (hereinafter referred to as the " County"; and the Milwaukee County Automated Mapping and Land Information System Steering Committee (hereinafter referred to as the "Steering Committee").

WITNESSETH:

WHEREAS, by Resolution No. 88-379, the Milwaukee County Board of Supervisors requested the Southeastern Wisconsin Regional Planning Commission to conduct a feasibility study pertaining to an automated mapping and land information system; and

WHEREAS, the requested feasibility study was completed and documented in SEWRPC Community Assistance Planning Report No. 177, Feasibility Study for a Milwaukee County Automated Mapping and Land Information System, published in October 1989; and

WHEREAS, by resolution adopted on November 8, 1990, the Milwaukee County Board of Supervisors, working in cooperation with the utilities concerned, created a public-private partnership to implement the proposed Milwaukee County automated mapping and land information system, including creation of a Steering Committee to provide oversight in the implementation of the system recommended in SEWRPC Community Assistance Planning Report No. 177; and

WHEREAS, the aforementioned Milwaukee County resolution adopted on November 8, 1990, further authorized the execution of a Cooperative Agreement between Milwaukee County and the public and private utilities serving Milwaukee County, whereby the County and such utilities agreed to jointly fund the development of the Milwaukee County automated mapping and land information system), such Agreement delegating to the aforementioned Steering Committee full responsibility for all policy matters relating to the conduct of the work program, including proposed contracts and specifications and the selection of contractors; and

WHEREAS, the Steering Committee on September 14, 2004, formally authorized the County to accept the responsibilities of Project Manager for the implementation of the recommended automated mapping and land information system;

NOW, THEREFORE, in consideration of the mutual promises of each agency made to the other, the fulfillment of the terms and conditions, agreements, and understandings hereinafter set forth,

I. Scope of Work

In general, the County agrees to perform all of the tasks specified herein. Other tasks to be completed by the County not covered herein will be carried out under separate agreements.

The County will provide the professional staff services, including the services of a Project Manger, necessary to manage the Milwaukee County automated mapping and land information system projects throughout the duration of this agreement, and beyond subject to amendment of this agreement. This responsibility includes the identification and recommendation of work projects to be carried out under the MCAMLIS program. The preparation and submittal of grant applications to the Wisconsin Land Information Board on behalf of the MCAMLIS Steering Committee, the fiscal management of MCAMLIS projects, and the quality control of end products produced under MCAMLIS contracts and subcontracts. The County will serve as staff to the Steering Committee in the preparation for and the carrying out of its meetings.

The County agrees to perform day-to-day operations services attendant to the Milwaukee County automated mapping and land information system until the end of the period specified in this contract. This will include housing and maintenance of the MCAMLIS produced end products, update of cadastral and street address databases, handling requests for the distribution of MCAMLIS produced products as approved by the Steering Committee, and researching and implementing hardware and software data transfer protocols and standards. Additionally, the County will supply routine maintenance as required in the housing of MCAMLIS data, and continue to integrate new materials created under MCAMLIS projects as they become available.

In addition to the services described above, the County will be responsible for developing and managing any and all sub-contacts to qualified engineering firms participating in the conduct of MCAMLIS mapping projects. Furthermore, the MCAMLIS Project Manager as an employee of the County will serve as liaison to the MCAMLIS attorney related to the development of the MCAMLIS data sharing policy, and in matters pertaining to the copyright of MCAMLIS derived products.

II. Timing

All services to be performed under this Agreement shall be carried out over the period beginning January 1, 2008, and ending on December 31, 2008.

III. Compensation to County

The Steering Committee shall pay to the County the following amounts for those services described above:

SERVICES PROVIDED	AMOUNT
Project Management and Related Operating Services (DTPW)	\$225,316
MCAMLIS Cadastral and Street Address Database Maintenance (ROD)	\$ 93,369
Total	\$318,685

IV. Method of Compensation

Compensation is to be provided to the Department of Transportation and Public Works (DTPW) and the Register of Deeds (ROD) for services performed through the County MCAMLIS Program Org. 1923. DTPW and ROD will request on a quarterly (March 31, June 30, September 30, December 31) basis reimbursement for said services provided. The Milwaukee County Department of Administration (DAS) will administer all journal vouchers as deemed necessary to Orgs. 5081 and 3430 for those services that they provided during the course of carrying out its responsibilities.

If, during the course of carrying out the work elements identified herein, additional unanticipated work efforts not identified in the scope of work contained herein become necessary for successful project completion in the judgment of the County or in the judgment of the Steering Committee, then it is agreed that the County can request an amendment to the scope of work, with an attendant increase in the maximum amount payable to the County under this Agreement. Such an amendment would require the approval of both the County and the Steering Committee before becoming effective.

V. Support and Materials to be Provided by Others

It is assumed that the members of the Steering Committee, on behalf of their respective public agencies and private utilities, agree to make available without charge to the County all existing digital and hardcopy maps, documents, reports, legal records, and related materials deemed by the County to be needed to carry out its responsibilities under this Agreement. If this assumed level of cooperation does not materialize, then it is agreed that the County may, at its discretion, request

payment from the Steering Committee for these costs above and beyond the total amount set forth in Section III of this Agreement.

VI. Ownership of Data

The County agrees not to release such data to others without the prior consent of the Steering Committee. At the end of the Agreement, the County agrees to turn over to a designated MCAMLIS Project Manager all materials and computer hardware and software acquired and/or developed as a part of this Agreement.

VII. Subcontracts

The County and Steering Committee agree that it may be desirable to perform certain of the tasks associated with work projects conducted during the life of this Agreement through subcontracts with qualified firms. In addition, it is envisioned that subcontracts may be required for the acquisition of computer hardware and software and communication devices. The County agrees to bring any such subcontracts to the Steering Committee for its approval prior to execution.

VII. Indemnity

Except for acts done or taken at the direction of or pursuant to the Steering Committee policy or procedures, the County agrees to the fullest extent permitted by law, to indemnify, defend and hold harmless, the Steering Committee, and its agents, officers and employees, from and against all loss or expense including costs and attorney's fees by reason of statutory benefits under Worker Compensation Laws, and/or liability for damages including suits at law or in equity, caused by any wrongful, intentional, or negligent act or omission of the County, or it's (their) agents which, may arise out of or are connected with the activities covered by this agreement.

IX. Insurance

The County, as an agency of the state, is self-funded for liability (both public and property) under Section 893.82 and Section 895.46 (1) of the Statutes. As a result, such protection as is afforded under respective Wisconsin Statutes, is applicable to officers, employees, and agents while acting within the scope of their employment or agency. Since this is statutory indemnification, there is no liability policy as such that can extend protection to any other.

X. Authorization

The Steering Committee approved the execution of this Agreement by action taken on December 18th, 2007.

IN WITNESS WHEREOF, This Agreement executed the date and year first above written.

FOR: **MILWAUKEE COUNTY**

FOR: **MILWAUKEE COUNTY
AUTOMATED MAPPING AND LAND
INFORMATION SYSTEM STEERING
COMMITTEE**

George A. Torres, Director Date
Department of Transportation and Public Works

Kurt W. Bauer, Chairman Date

WITNESSED BY:

WITNESSED BY:

Date

Date

**APPROVED AS TO FORM BY
CORPORATION COUNSEL**

William J. Domina Date
Milwaukee County Corporation Counsel

REVIEWED AS TO INSURANCE REQUIREMENTS

Judith Litscher Date
Risk Management Coordinatorr

APPROVED WITH REGARDS TO COUNTY ORDINANCE CHAPTER 42

Freida Webb, Director Date
Community Business Development Partners

AGREEMENT
between
THE MILWAUKEE COUNTY DEPARTMENT OF ADMINISTRATIVE SERVICES AND
THE MILWAUKEE COUNTY AUTOMATED MAPPING AND LAND INFORMATION SYSTEM STEERING
COMMITTEE

THIS AGREEMENT, entered into this ____ day of _____, 200_, by and between the Milwaukee County Department of Administrative Services (hereinafter referred to as the “County”); and the Milwaukee County Automated Mapping and Land Information System Steering Committee (hereinafter referred to as the “Steering Committee”).

WITNESSETH:

WHEREAS, by Resolution No. 88-379, the Milwaukee County Board of Supervisors requested the Southeastern Wisconsin Regional Planning Commission (SEWRPC) to conduct a feasibility study pertaining to an automated mapping and land information system; and

WHEREAS, the requested feasibility study was completed and documented in SEWRPC Community Assistance Planning Report No. 177, Feasibility Study for a Milwaukee County Automated Mapping and Land Information System, published in October 1989; and

WHEREAS, by Resolution No. 90-707 (a) (a) adopted on November 8, 1990, the Milwaukee County Board of Supervisors, working in cooperation with the utilities concerned, created a public-private partnership to implement the proposed Milwaukee County Automated Mapping and Land Information System, including creation of a Steering Committee to provide oversight in the implementation of the system recommended in SEWRPC Community Assistance Planning Report No. 177; and

WHEREAS, the aforementioned Milwaukee County resolution adopted on November 8, 1990, further authorized the execution of a Cooperative Agreement between Milwaukee County and the public and private utilities serving Milwaukee County, whereby the County and such utilities agreed to jointly fund the development of the Milwaukee Committee full responsibility for all policy matters relating to the conduct of the work program, including proposed contracts and specifications and the selection of contractors; and

WHEREAS, the Steering Committee on November 16, 2004, formally authorized the County to charge-administrative costs associated with the implementation of the recommended automated mapping and land information system;

NOW, THEREFORE, in consideration of the mutual promises each agency has made to the other and in the fulfillment of the terms and conditions, agreements, and understandings hereinafter set forth,

I. Scope of Work

In general, the County agrees to perform the following administrative duties related to the Steering Committee operations. Other tasks to be completed by the County not covered herein will be carried out under separate agreements.

- ◆ Contract Review-Each contract (and all contract addenda) the Steering Committee enters into must be fully reviewed and approved by the offices of Corporation Counsel, Risk Management, and Office of Community Business Development Partners (formerly Disadvantaged Business Development).
- ◆ Contract Encumbering & Payment Processing – Each contract must be encumbered and invoices against those contracts must be processed involving staff within the Department of Administrative Services, including the Director, a Fiscal and Management Analyst and staff within the Accounts Payable unit. In addition, Department of Administrative Services staff is responsible for processing fund transfers and/or journal vouchers, as necessary.
- ◆ Contract Monitoring – Staff within the Department of Administrative Services must also ensure that invoices are applied to the appropriate encumbered contract.
- ◆ Monthly Cash Flow Statements – Department of Administrative Services staff also prepares and presents monthly cash flow statements on the MCAMLIS reserve at Steering Committee meetings.

- ◆ Oversight of any of the aforementioned responsibilities may, at times, involve the County's Controller.

II. Timing

All services to be performed under this Agreement shall be carried out over the period beginning January 1, 2008 and ending on December 31, 2008

III. Compensation to County

The Steering Committee shall pay \$25,000 to the County for those services described above.

IV. Method of Compensation

Compensation is to be provided to the Department of Administrative Services for services performed for the Steering Committee. DAS shall submit a single invoice in the amount of \$25,000 to the Steering Committee for approval. If, during the course of carrying out the work elements identified herein, additional unanticipated work efforts not identified in the scope of work contained herein become necessary for successful project completion in the judgment of the County or in the judgment of the Steering Committee, then it is agreed that the County can request an amendment of the scope of work, with an attendant increase in the maximum amount payable to the County under this Agreement. Such an amendment would require the approval of both the County and the Steering Committee before becoming effective.

V. Support and Materials to be Provided by Others

It is assumed that the members of the Steering Committee, on behalf of their respective public agencies and private utilities, agree to make available without charge to the County all existing digital and hardcopy maps, documents, reports, legal records, and related materials deemed by the County to be needed to carry out its responsibilities under this Agreement. If this assumed level of cooperation does not materialize, then it is agreed that the County may, at its discretion, request payment from the Steering Committee for these costs above and beyond the total amount set forth in Section III of this Agreement.

VI. Ownership of Data

The County agrees not to release such data to others without the prior consent of the Steering Committee. At the end of the Agreement, the County agrees to turn over to a designated MCAMLIS Project Manager all materials and computer hardware and software acquired and/or developed as a part of this Agreement.

VII. Subcontracts

The County and Steering Committee agree that it may be desirable to perform certain of the tasks associated with work projects conducted during the life of this Agreement through subcontracts with qualified firms. In addition, it is envisioned that subcontracts may be required for the acquisition of computer hardware and software and communication devices. The County agrees to bring any such subcontracts to the Steering Committee for its approval prior to execution.

VIII. Indemnity

Except for acts done or taken at the direction of or pursuant to the Steering Committee policy or procedures, the County agrees to the fullest extent permitted by law, to indemnify, defend and hold harmless, the Steering Committee, and its agents, officers and employees, from and against all loss or expense including costs and attorney's fees by reason of statutory benefits under Worker Compensation Laws, and/or liability for damages including suits at law or in equity, caused by any wrongful, intentional, or negligent act of omission of the County, or its (their) agents which, may arise out of or are connected with the activities covered by this agreement.

IX. Insurance

The County, as an agency of the state is self-funded for liability (both public and property) under Section 893.82 and Section 895.46 (1) of the Statutes. As a result, such protection as is afforded under respective Wisconsin Statutes, is applicable to officers, employees, and agents while acting within the scope of their employment or agency. Since this is statutory indemnification, there is no liability policy as such that can extend protection to any other.

X. Authorization

The Steering Committee approved the execution of this Agreement by action taken on December 18th, 2007.

IN WITNESS WHEREOF, This Agreement executed the data and year first above written.

ATTESTING WITNESS

By: _____

MILWAUKEE COUNTY

By _____
Rob J. Henken, Director
Department of Administrative Services

ATTESTING WITNESS

By _____
MCAMLIS Project Manager

**MILWAUKEE COUNTY AUTOMATED
MAPPING AND LAND INFORMATION
SYSTEM STEERING COMMITTEE**

By _____
Kurt W. Bauer, Chairman

APPROVED AS TO FORM

By _____
William J. Domina (Date)
Milwaukee County Corporation Counsel

REVIEWED AS TO INDEMNIFICATION AND INSURANCE

By _____
Judith Litscher (Date)
Milwaukee County Department of Administrative Services, Division of Risk Management

APPROVED AS TO CHAPTER 42 DBE PROVISIONS

By _____
Frieda F. Webb (Date)
Milwaukee County Office of Community Business Development Partners

AGREEMENT

THIS AGREEMENT, entered into this ____ day of _____, 2007, by and between the Southeastern Wisconsin Regional Planning Commission (hereinafter referred to as the "Commission"); and the Milwaukee County Automated Mapping and Land Information System Steering Committee (hereinafter referred to as the "Steering Committee").

WITNESSETH:

WHEREAS, under Section 59.74 of the Wisconsin Statutes, the Commission serves as the County Surveyor for Milwaukee County; and

WHEREAS, under the requirements of this legislation, the Commission is responsible for receiving, indexing, and filing as a public record, a copy of each land survey plat prepared by a land surveyor registered in the State of Wisconsin; and

WHEREAS, under the further requirements of this legislation, the Commission is also made responsible for the perpetuation of the corners of the U.S. Public Land Survey which may be subject to destruction, removal, or burial through construction or other activities and for maintaining a record of the surveys for such perpetuation; and

WHEREAS, the activities of the Milwaukee County Surveyor are essential to the development and maintenance of the Milwaukee County Automated Mapping and Land Information System (MCAMLIS); and

WHEREAS, the Milwaukee County Board of Supervisors has determined that the expenses associated with the Milwaukee County surveyor function should be paid from the annual operating budget of the MCAMLIS project; and

WHEREAS, Sections 66.0309 (12)(b) and 66.0301 of the Wisconsin Statutes authorize the Commission to enter into contracts with local units of government and their agents to make and implement studies and plans and to otherwise provide advice and services.

NOW, THEREFORE, in consideration of these premises and of their mutual and dependent promises and agreements, the parties hereto contract and agree as follows:

I. Scope of Work

The Commission will provide the professional staff services as necessary to act in the capacity of County Surveyor for Milwaukee County pursuant to the provisions of Section 59.635 of the Wisconsin Statutes. More specifically, under this agreement, the Commission, acting in the capacity of the Milwaukee County Surveyor, will perform the following functions:

- A. Record and maintain a file of all land survey plats prepared by land surveyors for parcels in Milwaukee County. An estimated 2,000 such land surveys are prepared and filed annually. Such surveys are essential to the maintenance effort required to keep the MCAMLIS cadastral maps up-to-date.
- B. Perpetuate the corners of the U.S. Public Land Survey system throughout Milwaukee County. Such corners frequently are subject to destruction, removal, and burial through construction or other activities. The perpetuation work includes periodic inspection of the system of approximately 2,200 monuments and attendant reference benchmarks and witness marks, the removal and/or replacement of such monuments and reference benchmarks and witness marks either directly or through the supervision of others conducting such activities, and undertaking both horizontal and vertical control surveys to ensure the integrity of the reference framework that is critical to the automated mapping base established for Milwaukee County. An estimated 100 monuments and benchmarks are serviced annually.
- C. Provide guidance and counsel to the Milwaukee County Automated Mapping and Land Information System Steering Committee through service on that committee.
- D. Provide technical support and guidance to the staff assigned to develop, and maintain the Milwaukee County automated mapping and land information system program.

II. Commission to Organize and Store Information Acquired by County Surveyor

In order to facilitate convenient use of the land survey records concerned by land surveyors, abstractors, assessors, appraisers, attorneys, engineers and other interested parties, the Commission agrees to maintain an orderly filing and retrieval capability for the land surveys and to cross reference all files of surveys under five headings. The five reference headings are:

- A. Numerically by U.S. Public Land survey township, range, section, quarter section, and record of survey.
- B. Alphabetically by minor civil division (city or village).
- C. Alphabetically by the property owner or client for whom the survey was completed.
- D. Alphabetically by the name of the land surveyor employed by the property owner or client.
- E. Chronologically by the date of the survey.

The Commission further agrees to maintain in an orderly manner, records of individual U.S. Public Land Survey Corners (dossier sheets), and records (control survey summary diagrams) of horizontal and vertical control surveys that have been run over the U.S. Public Land survey corners.

- III. Commission to Act as Custodian for all Milwaukee County Surveyor Records
The Commission agrees to maintain for inspection and copying as public documents, all records associated with its functions as the Milwaukee County Surveyor. The Commission further agrees to provide access to the data contained in the five lists identified in paragraph 2 above through its Regional Land Information website.
- IV. Steering Committee to Receive Copies of Records
The Commission shall furnish to the Steering Committee, as necessary for the pursuit of its responsibilities, copies of the records created and maintained by the Milwaukee County Surveyor.
- V. Compensation
The Steering Committee through Milwaukee County shall pay to the Commission the sum of \$77,175 as full payment for the services described herein.
- VI. Method of Compensation
The Commission shall submit a single invoice in the amount of \$77,175 to Milwaukee County. The County, on behalf of the Steering Committee, shall pay to the Commission the amount shown on the invoice upon receipt of said invoice.
- VII. Timing
The work to be performed under this Agreement shall be carried out over the period from January 1, 2008, through December 31, 2008.
- VIII. Indemnity
Except for acts done or taken at the direction of or pursuant to the Steering Committee policy or procedures, the Commission agrees to the fullest extent permitted by law, to indemnify, defend and hold harmless, the Steering Committee, and its agents, officers, and employees from and against all loss or expense including costs and attorney's fees by reason of statutory benefits under Worker Compensation Laws, and/or liability for damages including suits at law or in equity, caused by any wrongful, intentional, or negligent act or omission of the Commission, or its agents which may arise out of or are connected with the activities covered by this agreement.
- IX. Insurance
The Commission, as an agency of the State, is self-funded for liability under Section 893.82 and Section 895.46(1) of the Statutes. As a result, such protection as is afforded under respective Wisconsin Statutes, is applicable to officers, employees, and agents while acting within the scope of their employment or agency. Since this is statutory indemnification, there is no liability policy as such that can extend protection to any other.
- X. Records and Audits
The Commission shall allow Milwaukee County, the Milwaukee County Department of Audit, or any other party that Milwaukee County may name, when and as they demand, to audit, examine, and make copies of, excerpts or transcripts from, any records or other information directly relating to matters under this agreement. Any subcontracting by the

Commission in performing the duties described under this contract shall subject the subcontractor and/or associates to the same audit terms and conditions as the Commission. The Commission (or any subcontractor) shall maintain and make available to Milwaukee County the aforementioned audit information for no less than three years after the conclusion of each contract term.

XI. Independent Contractor

Nothing contained in the Agreement shall constitute or be construed to create a partnership or joint venture between Milwaukee County or its successors or assigns; the Steering Committee or its successors or assigns; and the Commission or its successors or assigns. In entering into this Agreement, and in acting in compliance herewith, the Commission is at all times acting and performing as an independent contractor, duly authorized to perform the acts required of it hereunder.

XII. Authorization

The Steering Committee approved the execution of this Agreement by action taken on _____, 2007.

IN WITNESS WHEREOF, the Commission and the Steering Committee have executed this Agreement, as of the date first above written.

ATTESTING WITNESS

By _____
Philip C. Evenson
Deputy Secretary

**SOUTHEASTERN WISCONSIN
REGIONAL PLANNING COMMISSION**

By _____
Thomas H. Buestrin
Chairman

ATTESTING WITNESS

By _____
William C. Shaw
Project Manager

**MILWAUKEE COUNTY AUTOMATED
MAPPING AND LAND INFORMATION
SYSTEM STEERING COMMITTEE**

By _____
Kurt W. Bauer
Chairman

APPROVED AS TO FORM

By _____
William J. Domina (Date)
Milwaukee County Corporation Counsel

**REVIEWED AS TO
INDEMNIFICATION AND INSURANCE**

By _____
Judith Litscher (Date)
Milwaukee County Department of Risk Management

**APPROVED AS TO CHAPTER 42
DBE PROVISIONS**

Frieda F. Webb (Date)
Milwaukee County DBD Director

AGREEMENT

between

THE CITY OF MILWAUKEE DEPARTMENT OF ADMINISTRATION, INFORMATION AND TECHNOLOGY MANAGEMENT DIVISION AND THE MILWAUKEE COUNTY AUTOMATED MAPPING AND LAND INFORMATION SYSTEM STEERING COMMITTEE

THIS AGREEMENT, entered into this _____ day of _____, 200_, by and between the City of Milwaukee Department of Administration, Information and Technology Management Division (hereinafter referred to as the "City"); and the Milwaukee County Automated Mapping and Land Information System Steering Committee (hereinafter referred to as the "Steering Committee").

WITNESSETH:

WHEREAS, by Resolution No. 88-379, the Milwaukee County Board of Supervisors requested the Southeastern Wisconsin Regional Planning Commission to conduct a feasibility study pertaining to an automated mapping and land information system; and

WHEREAS, the requested feasibility study was completed and documented in SEWRPC Community Assistance Planning Report No. 177, "Feasibility Study for a Milwaukee County Automated Mapping and Land Information System," published in October 1989; and

WHEREAS, by resolution adopted on November 8, 1990, the Milwaukee County Board of Supervisors, working in cooperation with the utilities concerned, created a public-private partnership to implement the proposed Milwaukee County automated mapping and land information system, including creation of a Steering Committee to provide oversight in the implementation of the system recommended in SEWRPC Community Assistance Planning Report No. 177; and

WHEREAS, the aforementioned Milwaukee County resolution adopted on November 8, 1990, further authorized the execution of a Cooperative Agreement between Milwaukee County and the public and private utilities serving Milwaukee County, whereby the County and such utilities agreed to jointly fund the development of the Milwaukee County automated mapping and land information system), such Agreement delegating to the aforementioned Steering Committee full responsibility for all policy matters relating to the conduct of the work program, including proposed contracts and specifications and the selection of contractors; and

WHEREAS, the City Enterprise Information Manager serves as a member of the aforementioned Steering Committee and the City actively participates in implementation of the MCAMLIS; and

WHEREAS, the City desires the financial support of the MCAMLIS program to maintain the cadastral maps within the City of Milwaukee to ensure conformance with selected MCAMLIS standards; and

WHEREAS, on August 26, 1999, the City, the Steering Committee, and the Commission, through an assignment, entered into an Intergovernmental Cooperation Agreement (ICA) whereby the City would provide technical services to the Steering Committee; and

WHEREAS, the Steering Committee on September 14, 2004, formally authorized the County to accept the responsibilities of Project Manager for the implementation of the recommended automated mapping and land information system;

NOW, THEREFORE, in consideration of the mutual promises of each agency made to the other, the fulfillment of the terms and conditions, agreements, and understandings hereinafter set forth,

I. Scope of Work

In general, the City agrees to perform all of the tasks specified herein. Other tasks to be completed by the City not covered herein will be carried out under separate agreements.

The City will provide professional and technical information technology services. This will include maintenance on cadastral maps and the street address database in the adopted Milwaukee County geodatabase format. Copies of the data will be delivered to the MCAMLIS project manager at a minimum bi-annually. This arrangement will allow data collected and housed at the City of Milwaukee to be maintained in the same format that the County of Milwaukee uses to store and retrieve the MCAMLIS cadastral data.

Should software data transfer protocols and standards be developed, the City will work with Milwaukee County staff to deliver the cadastral and street address data on a more frequent basis.

II. Timing

All services to be performed under this Agreement shall be carried out over the period beginning January 1, 2008, and ending on December 31, 2008.

III. Compensation to City

The Steering Committee shall pay to the City the following amounts for those services described above:

SERVICES PROVIDED	AMOUNT
MCAMLIS Cadastral and Street Address Database Maintenance	\$ 75,477
Annual software maintenance	1,500
Total	\$ 76,977

IV. Method of Compensation

Compensation is to be provided to the Department of Administration Information and Technology Management Division (ITMD) for services performed through the County MCAMLIS Program Org. 1923. ITMD will request on a quarterly (March 31, June 30, September 30, December 31) basis reimbursement for said services provided.

If, during the course of carrying out the work elements identified herein, additional unanticipated work efforts not identified in the scope of work contained herein become necessary for successful project completion in the judgment of the City or in the judgment of the Steering Committee, then it is agreed that the City can request an amendment to the scope of work, with an attendant increase in the maximum amount payable to the City under this Agreement. Such an amendment would require the approval of both the City and the Steering Committee before becoming effective.

V. Support and Materials to be Provided by Others

It is assumed that the members of the Steering Committee, on behalf of their respective public agencies and private utilities, agree to make available without charge to the City all existing digital and hardcopy maps, documents, reports, legal records, and related materials deemed by the City to be needed to carry out its responsibilities under this Agreement. If this assumed level of cooperation does not materialize, then it is agreed that the City may, at its discretion, request payment from the Steering Committee for these costs above and beyond the total amount set forth in Section III of this Agreement.

VI. Ownership of Data

As the funds that are to be paid to the City for carrying out the herein described and required work are MCAMLIS project funds, the City agrees to share the data. The City, however, will retain sole ownership of all map files as they exist in the City digital structure. As a condition of receiving payment from MCAMLIS, the City agrees that MCAMLIS will be free to use, reproduce, modify, display, and distribute the digital map files in the MCAMLIS digital structure.

The City will retain a nonexclusive, irrevocable and perpetual license to use and distribute the digital map files to any parties it desires.

VII. Subcontracts

Although the City does not anticipate use of subcontractors, the City agrees to bring any such subcontracts to the Steering Committee for its approval prior to execution.

VIII. Indemnity

Except for acts done or taken at the direction of or pursuant to the Steering Committee policy or procedures, the City agrees to the fullest extent permitted by law, to indemnify, defend and hold harmless, the Steering Committee, and its agents, officers and employees, from and against all loss or expense including costs and attorney's fees by reason of statutory benefits under Worker Compensation Laws, and/or liability for damages including suits at law or in equity, caused by any wrongful, intentional, or negligent act or omission of the City, or it's (their) agents which, may arise out of or are connected with the activities covered by this agreement.

IX. Authorization

The Steering Committee approved the execution of this Agreement by action taken on December 18th, 2007.

IN WITNESS WHEREOF, This Agreement executed the date and year first above written.

FOR: CITY OF MILWAUKEE

FOR: MILWAUKEE COUNTY
AUTOMATED MAPPING AND LAND
INFORMATION SYSTEM STEERING
COMMITTEE

Randolf A Gschwind Date
Information and Technology Management
Division

Kurt W. Bauer, Chairman Date

WITNESSED BY:

WITNESSED BY:

Date

Date

W. Martin Morics Date
City of Milwaukee Comptroller

FOR: MILWAUKEE COUNTY

APPROVED AS TO FORM BY
CORPORATION COUNSEL

William J. Domina Date
Milwaukee County Corporation Counsel

Date

REVIEWED AS TO INSURANCE
REQUIREMENTS

Judith Litscher Date
Risk Management Coordinator

APPROVED AS TO CHAPTER 42 DBE PROVISIONS

Freida Webb, Director Date
Community Business Development Partners

MILWAUKEE COUNTY FISCAL NOTE FORM

DATE: 12/06/07

Original Fiscal Note

Substitute Fiscal Note

SUBJECT: Request for funds for Legal Services regarding MCAMLIS data

FISCAL EFFECT:

No Direct County Fiscal Impact

Existing Staff Time Required

Increase Operating Expenditures

(If checked, check one of two boxes below)

Absorbed Within Agency's Budget

Not Absorbed Within Agency's Budget

Decrease Operating Expenditures

Increase Operating Revenues

Decrease Operating Revenues

Indicate below the dollar change from budget for any submission that is projected to result in increased/decreased expenditures or revenues in the current year.

	Expenditure or Revenue Category	Current Year (2007)	Subsequent Year (2008)
Operating Budget	Expenditure	0	\$1,000
	Revenue	0	0
	Net Cost	0	\$1,000
Capital Improvement Budget	Expenditure		
	Revenue		
	Net Cost		

DESCRIPTION OF FISCAL EFFECT

In the space below, you must provide the following information. Attach additional pages if necessary.

- A. Briefly describe the nature of the action that is being requested or proposed, and the new or changed conditions that would occur if the request or proposal were adopted.
 - B. State the direct costs, savings or anticipated revenues associated with the requested or proposed action in the current budget year and how those were calculated. If annualized or subsequent year fiscal impacts are substantially different from current year impacts, then those shall be stated as well. In addition, cite any one-time costs associated with the action, the source of any new or additional revenues (e.g. State, Federal, user fee or private donation), the use of contingent funds, and/or the use of budgeted appropriations due to surpluses or change in purpose required to fund the requested action.
 - C. Discuss the budgetary impacts associated with the proposed action in the current year. A statement that sufficient funds are budgeted should be justified with information regarding the amount of budgeted appropriations in the relevant account and whether that amount is sufficient to offset the cost of the requested action. If relevant, discussion of budgetary impacts in subsequent years also shall be discussed. Subsequent year fiscal impacts shall be noted for the entire period in which the requested or proposed action would be implemented when it is reasonable to do so (i.e. a five-year lease agreement shall specify the costs/savings for each of the five years in question). Otherwise, impacts associated with the existing and subsequent budget years should be cited.
 - D. Describe any assumptions or interpretations that were utilized to provide the information on this form.
-
- A. The MCAMLIS Steering Committee is considering approval of funds for legal services, which would be used to investigate and recommend appropriate use of intellectual property rights regarding the distribution of MCAMLIS data. It has been recommended that the services of Carl Schwartz of Quarles & Brady, LLP be obtained to research and recommend appropriate updates (if indicated) regarding current MCAMLIS Copyright practices.
 - B. This project request is estimated at \$1,000 and the work will be performed in early 2008.
 - C. Approval of these actions would result in the expenditure of either \$1,000 in 2008 from the \$4 fee account. The legal services fees are not included in the 2008 MCAMLIS Budget but the December fiscal report is projecting a unrestricted surplus of \$669,218 for the \$4 fee for 2007 therefore, since the funds will be deposited into the Balance Sheet Account at the close of 2007, sufficient funds will be available in 2008 to cover the additional cost.
 - D. No assumptions other than the reported cost of the services were made for this report. It is assumed there are no additional costs in future years.

Prepared By: Alexandra Kotze, Milwaukee County, DAS- Fiscal Affairs



**DEPARTMENT OF TRANSPORTATION & PUBLIC WORKS
MILWAUKEE COUNTY LAND INFORMATION OFFICE**

2711 West Wells Street, Rm 426, Milwaukee, WI 53208 (414) 278-2176

MEMORANDUM

TO: MCAMLIS Steering Committee

FROM: William C. Shaw, MCAMLIS Project Manager

DATE: December 11, 2007

SUBJECT: MCAMLIS Staff Recommendation regarding Commercial use of Copyright Protected Parcel Data.

BACKGROUND

Group 1 Software Inc. has made an official request (attached) for a digital copy of MCAMLIS copyright protected 'parcel data,' to be used for 'Commercial' purposes. The current MCAMLIS policy regarding 'Commercial' use requests states the following:

'(The MCAMLIS) Project Manager will report all such requests to the (Utilities) Subcommittee for their consideration and determination. The Subcommittee will make findings and act to approve or disapprove the request. If the Subcommittee approves the request, the MCAMLIS Steering Committee will then also consider the matter and approve or disapprove the request. If either the Subcommittee or Steering Committee disapprove the request, it shall be denied. All actions to approve a request shall include the terms of a license agreement. The MCAMLIS Project Manager will then carry out the Subcommittee and Steering Committee's direction with respect to each request.'

As per these guidelines, the Utilities Subcommittee membership has been notified of this request, and We Energies' legal department has responded. It should be noted that AT&T Subcommittee members were included in all correspondence regarding this request and to-date have been non-responsive.

A series of communications conducted between the MCAMLIS Project Manager, We Energies and Group 1 Software Inc. followed. Details regarding the request were further clarified, and an appropriate valuation of MCAMLIS digital data for commercial purposes was established and included here in 'draft' form. In addition, there was a significant number of exchanges made between the MCAMLIS Project Manager, We Energies and Milwaukee County's Corporation Council regarding evolving Wisconsin Public Records Law, as this may pertain to the appropriateness of current MCAMLIS digital materials distribution policy.

FINDINGS OF THE UTILITIES SUBCOMMITTEE

- 1) Group 1 Software seeks to modify the Standard License Agreement in three (3) principle areas in order to allow the following:
 - Creation of an enhanced geocoding database;

- Creation of a proprietary view-only database of parcel boundaries, and;
- Creation of a web-based resource to be used to provide commercially available geocoding services

It was determined that the intent of Group 1 Software, Inc. was to provide view-only access to its clients over the web, and that Group 1 appears to be committed to preserving the integrity of the MCAMLIS data copyright through restricting access to non-vectorized data. It was further established that Group 1's approach conformed to, in principle, prior MCAMLIS guidelines regarding this subject, established in a report to the MCAMLIS Steering Committee dated 7/9/2004. The subject in this report titled 'Use of MCAMLIS Copyrighted Digital Mapping Materials on Municipal Websites' outlined current limitations and restrictions placed on Milwaukee County municipalities that request the right to display MCAMLIS data on their websites.

- 2) Currently established MCAMLIS data distribution policy regarding 'commercial' use suggests that the requested 'parcel' data should have a value between \$0 and \$520,000. This range is in consideration of the fees paid by each of the participating utility members of the MCAMLIS Project. As part of this discussion, the Subcommittee arrived at the following:
 - a) Group 1 did not request the entirety of the MCAMLIS data holdings. The (Taxparcel) data is among a number feature classes contained within the MCAMLIS Cadastral Feature Data Set (FDS), which is one of four (4) MCAMLIS Feature Data Sets (Topographic, Planimetric, Cadastral and Address). Therefore the value of the requested data needs to be determined as a proportion of the total value of all Feature Data Sets.
 - b) Since the requested taxparcel data is a portion of one of four MCAMLIS Feature Data Sets, the value of a single FDS should be \$130,000 (or \$520,000, the total value of all four Feature Data Sets, divided by four). This assumes that each FDS has equal value, or 25% of the total value of all four MCAMLIS Feature Data Sets.
 - c) Taxparcel data is one of 17 feature classes within the MCAMLIS Cadastral FDS. Therefore, it was agreed that the value of the taxparcel feature class should be \$7,647, or \$130,000 (the value of a single FDS) divided by 17.
 - d) Since regular updates may be desired in the future, the subcommittee established that 20% of the price of the requested data constitutes a reasonable annual maintenance fee. This would be \$1,529/ year at the proposed valuation rate.
- 3) With regard to evolving Wisconsin Public Records Law, there appears to be newly established court interpretation, as well as a possible future Wisconsin State Supreme Court ruling, that may have some bearing on MCAMLIS data distribution policy. Of particular interest at this time is consideration of whether the current MCAMLIS copyright is sufficiently formulated to exempt Milwaukee County as a 'record authority' with custodial responsibilities and therefore not subject to Wisconsin Public Records Law compliance with regard to MCAMLIS data.

We Energies and Milwaukee County Corporation Council have independently concluded that the MCAMLIS Data Requisition and Distribution Guidelines, including the License Agreement (Exhibit C), should be reviewed and updated in light of any relevant court decisions.

RECOMMENDATION

Staff working with the MCAMLIS Utilities Subcommittee recommends that attorney Carl Schwartz of Quarles & Brady be retained by the MCAMLIS Steering Committee to provide advice and assistance in

the review of the MCAMLIS Data Requisition and Distribution Guidelines, including the License Agreement (Exhibit C). Mr. Schwartz is being recommended because of his past legal services in connection with the original development of the Guidelines, as well as the subsequent establishment of policies concerning permitted uses of the digital mapping materials. Both We Energies and Milwaukee County Corporation Council are acquainted with Carl Schwartz, and are willing to participate in this review. Mr. Schwartz has agreed to assist in this review (pending approval).

Staff further recommends delay of any decision regarding the Group 1 Software, Inc. request pending the outcome of this review.

* * * * *

William Shaw, MCAMLIS Project Manager
Milwaukee County -DTPW
2711 West Wells Street, Room 426
Milwaukee, Wisconsin 53208



GROUP 1 SOFTWARE

September 10, 2007

William,

I am writing to request a current copy of Milwaukee County's digital parcel data on behalf of Group 1 Software, Inc. I'd like to provide a little background on our company, and some details on how we would like to use the parcel data to improve the accuracy of addressing technologies in your community.

Group 1 Software serves over 3,000 customers — including leaders in financial services, insurance, government, healthcare, telecommunications, utilities, and other industries. Our customers, in turn, use our addressing and mapping technologies to provide services to people living in places like Milwaukee County. Whether determining tax jurisdiction assignments, addressing public health concerns or assessing risk to property, it is clearly in everyone's interest to be using the best available location information.

We are all aware of the stories about a computer-generated address location that sent someone well off-course. At Group 1 Software, we strive to continually improve the accuracy and completeness of our address information—moving our geocoding technology beyond street segment matches to identifying the specific building or property of interest. How do we do this? By working cooperatively with the thousands of local governments across the nation that know this information best. We evaluate our geocodes with property centroid locations derived from local parcel data and further verify against digital imagery. This point data is enriched with additional information including US Postal Service address and ZIP+4 data.

Parcel boundaries are the optimal reference source for improving geocode accuracy, and I am writing to ask your permission for Group 1 Software to work with your data. As GIS professionals, we appreciate the level of effort that has gone into developing and maintaining your spatial data. We respect your concerns about data distribution, and are committed to handling the data responsibly. To that end, we have adopted standard policies to ensure that common requirements are properly met. First, as a corporate policy, Group 1 Software does not allow for any personal information to accompany our data products, so any attribute information such as owner name or property values that may be associated with the data will be immediately removed. We only need a unique parcel identifier number to perform our geocoding tasks. Second, we will abide by any requirements to display copyright or disclaimer notices. Third, we will pay any fees customarily charged for providing access to the data. Finally, and perhaps most

importantly, we understand your need to protect the investment made in your data, and have designed our technology so that end users are able to view but are unable to extract any vector information. This locks the information and prevents unauthorized redistribution of the data.

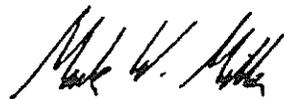
Examples of the derived products and services we anticipate developing include:

- improved geocoding databases to enhance positioning, routing, navigation, and delivery;
- a proprietary, view-only database of parcel boundaries for display in Group 1's software solutions, allowing users to visually verify the location of point-level geocodes;
- a web-based resource allowing users to view our most current parcel boundaries combined with other third-party datasets (again, no vector data is accessible through this mechanism).

Enclosed you will find a copy of your agreement signed by our General Counsel. He has also drafted an exhibit for the purpose of clarifying our intended usage with regard to your agreement.

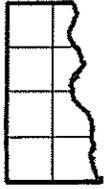
I hope that we will have the opportunity to work with your data—I am confident that the resulting improvements to our geocoding technology will be a benefit to the citizens and businesses in Milwaukee County. Please contact me if you have any questions. I would appreciate it if you would return a copy of the executed agreement to me, though we will understand that you have accepted our usage when we receive the data.

Thanks,



Mark Miller, GISP
Director, Parcel Services
mark_miller@g1.com
804-673-9700

Send data and invoices to:
Group 1 Software
Attn: Mark Miller
100 Concourse Boulevard, Suite 106
Glen Allen, Virginia 23059



MILWAUKEE COUNTY
AUTOMATED MAPPING AND
LAND INFORMATION SYSTEM

DATA REQUISITION AND DISTRIBUTION GUIDELINES

BACKGROUND

The Milwaukee County Automated Mapping and Land Information System (MCAMLIS) is a public-private consortium begun in 1990 by and between Milwaukee County, the Milwaukee Metropolitan Sewerage District, Wisconsin Bell, the Wisconsin Electric Power Company, and the Wisconsin Gas Company. A Steering Committee, comprised of representatives from each of the above entities plus representatives from the City of Milwaukee and the Intergovernmental Cooperation Council of Milwaukee County oversees all activities of the consortium.

MCAMLIS was formed to develop and maintain the automated mapping base essential for the creation of a modernized land information system for Milwaukee County. In so doing, MCAMLIS is overseeing implementation of the Milwaukee County land records modernization plan set forth in the Southeastern Wisconsin Regional Planning Commission's (SEWRPC) Community Assistance Planning Report No. 177, Feasibility Study for a Milwaukee County Automated Mapping and Land Information System. This plan, published in October 1989, was formally adopted by the Milwaukee County Board of Supervisors on February 15, 1990, and was approved by the Wisconsin Land Information Board on January 7, 1991. The mapping effort detailed in the County plan builds upon historic, coordinated base mapping efforts carried out by Milwaukee County, the Milwaukee Metropolitan Sewerage District, some of the cities and villages in the County, and the SEWRPC.

In December 1993, the Steering Committee executed a formal License Agreement pertaining to matters of copyright ownership and use of MCAMLIS derived data. With respect to mapping products, the License Agreement distinguishes between hard copy and digital mapped materials. Under the License Agreement, the Steering Committee has taken copyright title to all hard copy maps proposed under implementation of the adopted County plan. A Subcommittee of the Steering Committee, comprised of representatives of AMERITECH, the Wisconsin Electric Power Company, and the Wisconsin Gas Company, holds copyright title to the digital mapped materials derived from the MCAMLIS work program.

As refined in an implementation study completed in 1991, the MCAMLIS work program consists of the following:

- The completion of the location and remonumentation of all U. S. Public Land Survey corners in the County, including the centers of the sections.
- The completion of high-order horizontal and vertical control surveys to establish the State Plane Coordinates and elevations of the U. S. Public Land Survey corners.
- The completion of large-scale topographic base maps in hard copy and digital form at a scale of one inch equals 100 feet with two-foot contour intervals.

- The completion of companion cadastral maps to the topographic maps in hard copy and digital form at a scale of one inch equals 100 feet providing detailed information on the location and configuration of all real property boundaries, including the boundaries of all streets and public ways and other public land holdings; and assigning a parcel identification number (tax key number) to each ownership parcel to enable the linking of geographic with non-geographic data files.
- Street address data for all parcels in Milwaukee County.

All MCAMLIS mapping products are based upon the Wisconsin State Plane Coordinate System, South Zone (North American Datum of 1927) and referenced to the National Geodetic Vertical Datum of 1929.

DATA SHARING POLICY GUIDELINES AND PROCEDURES

As noted above, the Milwaukee County Automated Mapping and Land Information System (MCAMLIS) program was created in response to the need for the development of an automated mapping base for use by Milwaukee County, the local units of government in Milwaukee County, and the private utilities comprising the Sub-committee of the MCAMLIS Steering Committee. At the outset, it was recognized that an infusion of monetary resources from the private sector was necessary to create an automated mapping base for the County in a timely fashion. In response to this need, We Energies (formerly Wisconsin Gas Company and Wisconsin Electric Power Company), and AT&T (formerly SBC AMERITECH, Wisconsin Bell) invested significant private capital in the MCAMLIS program.

In order to protect their investments, the private utility members of MCAMLIS have been granted the MCAMLIS copyright to the mapping base in its digital form. Nevertheless, the overall goal of the MCAMLIS program has been, and will continue to be, the construction of the automated mapping system that is consistent with the standards specified in the County plan, and to make the end products created as a result of the MCAMLIS program available to the widest possible range of users in a fair and efficient manner. Consistent with this cooperative spirit, the utilities holding the copyright to MCAMLIS digital data have agreed that monies generated as a result of the sale of MCAMLIS derived data to commercial entities--other than those commercial entities requesting data for non-commercial, internal use--are to be returned to the MCAMLIS budget, and used in the continued development of the MCAMLIS automated mapping base. The MCAMLIS program is not, and was not intended to be, a for profit venture. Accordingly, the Data Requisition and Distribution Guidelines presented herein are intended to embody a spirit of fair and reasonable access to the MCAMLIS data base. The MCAMLIS Steering Committee and its Subcommittee have formulated the following policies attendant to the distribution and use of the copyrighted mapped data developed under the MCAMLIS program.

Accommodation of Requests

All requests for MCAMLIS data shall be made through the MCAMLIS Project Manager.

MCAMLIS Project Manager
Milwaukee County

Department of Transportation and Public Works
2711 West Wells Street, Room 427
Milwaukee, Wisconsin 53208-3509
Telephone (414) 278-2176
Fax (414) 223-1982

Distribution and Use of Hard Copy Materials

It is the policy of the MCAMLIS Steering Committee to make available selected MCAMLIS products in hard copy form at the cost of reproduction and distribution. This includes records of control survey stations and control survey summary diagrams. Hard copies of these materials may be ordered directly from the MCAMLIS Project Manager. A cost schedule for hard copy products, intended to cover the costs of reproduction, handling, and distribution, is attached as Exhibit A. All monies received by the MCAMLIS Project Manager under this section shall be retained by the MCAMLIS Program.

Distribution and Use of Digital Materials

The Steering Committee and the Subcommittee have established a policy that distinguishes between the commercial and noncommercial use of the digital maps produced under the MCAMLIS program. Noncommercial use is defined to include the periodic internal use of selected digital mapping materials--not the entire digital mapping file--by private firms and individuals. For noncommercial purposes, it is the general policy of the MCAMLIS Steering Committee and the Subcommittee to make available duplicate copies of the copyrighted digital MCAMLIS maps by full U. S. Public Land Survey quarter section subject to reimbursement of the cost of reproduction, handling, and distribution. Local units of government within or outside of Milwaukee County; State and Federal agencies; private firms and individuals requesting digital data for internal, noncommercial use; and nonprofit organizations may request duplicate copies of the digital topographic and cadastral map files. Additionally, as technology and methods permit, the MCAMLIS data can be made available as specified within custom geographies. Such requests should be directed to the MCAMLIS Project Manager.¹

Current cost guidelines for obtaining such duplicate digital mapping files, intended to cover the costs of reproduction, handling, and distribution, are attached as Exhibit B. These guidelines reflect average costs associated with the reproduction, handling, and distribution of digital files as those files are presently stored. All monies received by the MCAMLIS Project Manager under this section will be retained by the MCAMLIS program as reimbursement for the actual expenses incurred.

Any party requesting duplicate digital files containing MCAMLIS copyrighted mapped data will be required to execute a license agreement in addition to paying for the costs of duplication set

¹ Any requests for MCAMLIS derived digital map files for student use must be made by appropriate school officials on behalf of the students. The school officials must first enter into a license agreement with the Steering Committee. These school officials include deans, department chairmen, or equivalent administrative officers. The requester may then receive up to four U. S. Public Land Survey quarter-section map files free of charge. Requests for more than four quarter sections shall be handled in the same manner as provided above.

forth on Exhibit B. A copy of the license agreement is attached as Exhibit C. The license agreement provides the conditions under which the categories of noncommercial users described above may use the digital map data and prohibits the user from providing access to the data in digital form by a third party. The MCAMLIS Project Manager is to forward to the MCAMLIS Steering Committee Chairman for action in a timely manner all requests for a license to obtain and use the digital MCAMLIS mapping files. The Chairman will review the request for consistencies with the policies set forth herein. The Chairman will not unreasonably refuse to provide access to the digital materials where the intended use is for a governmental, educational, non-profit, or internal private purpose. The Chairman will make findings and act to approve or disapprove the request. The MCAMLIS Project Manager will then carry out the Chairman's direction with respect to each request. The Chairman shall report all requests for licenses and his determinations with respect thereto to the Steering Committee.

For commercial purposes, that is, where private firms or individuals seek to acquire all or substantially all of the digital files for internal or external use, it is the general policy of the MCAMLIS Steering Committee and Subcommittee to make available duplicate copies of the digital copyrighted MCAMLIS mapping files only in their entirety. The Steering Committee and the Subcommittee will consider requests for duplicate digital copyrighted files for commercial purposes on a case-by-case basis. Requests should be directed to the MCAMLIS Project Manager at the address noted above. The Project Manager will report all such requests to the Subcommittee for their consideration and determination. The Subcommittee will make findings and act to approve or disapprove the request. If the Subcommittee approves the request, the MCAMLIS Steering Committee will then also consider the matter and approve or disapprove the request. If either the Subcommittee or Steering Committee disapprove the request, it shall be denied. All actions to approve a request shall include the terms of a license agreement. The MCAMLIS Project Manager will then carry out the Subcommittee and Steering Committee's direction with respect to each request.

As a matter of general policy, it is the intent of the MCAMLIS Steering Committee and the Subcommittee to usually require any commercial entity requesting a duplicate copyrighted digital file of the MCAMLIS mapping data base to acquire that data base at a cost of \$520,000--representing the amount invested by each of the Utilities in the MCAMLIS program. The total amount will be paid directly to the MCAMLIS Steering Committee and will be used by that Committee in furtherance of the objectives of the MCAMLIS program. All commercial entities intending to acquire a duplicate digital file of the copyrighted MCAMLIS mapping data base for commercial purposes as defined above will be required to enter into a license agreement for the use of that data base. That license agreement--which will be generally based upon the standard license agreement set forth in Exhibit C, but which will be adapted on a case-by-case basis as directed by the Subcommittee and Steering Committee--will govern how, if at all, the commercial entity may provide access to the data in digital form by a third party and will provide for appropriate payment or payments.

MCAMLIS DATA AVAILABILITY

The following represents the availability of MCAMLIS hard copy and digital data as of December 1, 2006:

- Records of control survey stations have been completed and are available for all U. S. Public Land Survey section and quarter section corners in the County.
- Control survey summary diagrams prepared for six-square-mile areas are available for the entire County.
- Digital files of large-scale topographic base maps are available from MCAMLIS for all of the 996 quarter sections in Milwaukee County. This availability is summarized on the map attached as Exhibit D.
- Digital files of continuously maintained cadastral maps are available from MCAMLIS for all of eighteen suburban communities outside the City of Milwaukee. Additional arrangements for data within the City of Milwaukee will be constituted between MCAMLIS and the City through 2007. This availability is summarized on the map attached as Exhibit E.
- Street address data is available for all parts of the County except for the City of Milwaukee.

The status of availability of hard copy and digital map products under the MCAMLIS program is continually changing. Interested parties should contact the MCAMLIS Project Manager to inquire about the availability of additional products as time goes on.

* * *

Exhibit A

MCAMLIS HARDCOPY MATERIALS
DISTRIBUTION COST SCHEDULE FOR ALL USERS

Item	Geographic Unit of Coverage	Scale	Sheet Size	Unit Price
Record of Control Survey Station	One U.S. Public Land Survey Section or Quarter-Section Corner	Not Applicable	8.5" x 11'	\$ 1.00*
Control Survey Summary Diagram	Six Square-Miles	Not Applicable	17" x 11"	\$ 5.00*

Plus shipping costs and sales taxes where applicable.

* Available for free download at <http://www.sewrpc.org/regionallandinfo/survey.shtm>

Source: MCAMLIS Project Manager; December 1, 2006

Exhibit B

MCAMLIS DIGITAL MATERIAL DISTRIBUTION
COST SCHEDULE FOR NON-COMMERCIAL USERS

Digital Format [*]	Digital Topographic Base and/or Cadastral Map for One Public Land Survey Quarter-Section		Custom Specified Geography	
	One Quarter-Section	Each Additional Quarter-Section**	Minimum Request including 1 ^{1/2} hour of labor	Each Additional Hour of Labor**
ArcGIS (specify format)	\$ 65.00	\$ 30.00	\$ 65.00	\$ 75.00
Microstation DGN	\$ 65.00	\$ 30.00	\$ 65.00	\$ 75.00
AutoCAD DWG/DXF	\$ 65.00	\$ 30.00	\$ 65.00	\$ 75.00

Plus shipping costs and sales taxes where applicable.

* The three digital formats included in the table are the most frequently used in the Southeastern Wisconsin. Delivery in other formats may not be feasible. Any party desiring to explore delivery in other formats will be expected to pay the costs entailed in determining the feasibility of such delivery.

** Ordered simultaneously with first quarter-section or additional labor required to satisfy a custom request selection.

Source: MCAMLIS Project Manager; December 1, 2006

Exhibit C

MILWAUKEE COUNTY AUTOMATED MAPPING
AND LAND INFORMATION SYSTEM

LICENSE AGREEMENT PERTAINING TO THE NON-COMMERCIAL USE
OF COPYRIGHTED DIGITAL BASE MAPPING MATERIALS

WHEREAS, AT&T, and We Energies (hereinafter referred to as the "Utilities"), are the joint copyright owners of certain digital base mapping materials developed under the Milwaukee County Automated Mapping and Land Information System (hereinafter referred to as "MCAMLIS"); and

WHEREAS, the MCAMLIS program is presently being administered by the Milwaukee County Department of Transportation and Public Works (hereinafter referred to as "County"), through an employee designated as the MCAMLIS Project Manager; and

WHEREAS, Group 1 Software, Inc. a unit or agency of government, a not-for-profit organization, an educational institution, or a private firm or individual seeking MCAMLIS digital data for internal, non-commercial use, (hereinafter referred to as the "Requestor"), has filed a request with the MCAMLIS Project Manager to obtain duplicate files of the digital MCAMLIS copyrighted base mapping materials (hereinafter referred to as the "digital base maps"); and

WHEREAS, the Utilities are willing to permit the Requestor to obtain the digital base maps subject to the following conditions and understandings:

1. Subject to the limitations set forth below, the Utilities agree not to object to the Requestor using, reproducing, modifying, and/or displaying the digital base maps; preparing or distributing in non-digital form reports incorporating the base maps derived from the digital files; and distributing the base maps and reports in non-digital form to all parties concerned. *The attached Exhibit 1 identifies Requestor's intended use of the digital*
2. The Utilities agree not to object to the Requestor making duplicate copies of the digital base map files for its own internal use. Such files, however, are intended only for the use of the employees and agents of the Requestor; and the Requestor and its employees and agents are expressly prohibited from providing copies of the digital base map files to any other party. *base map files*
3. The Requestor agrees to use the digital base maps only for noncommercial purposes; that is, for governmental and educational purposes and for private purposes when a private firm or individual periodically. Uses selected digital materials -- not the entire MCAMLIS digital files -- for internal use. *(Signature)*

4. The Requestor agrees to hold the digital base map files in confidence and prevent any third party from having access to those files or to any materials in digital form derived therefrom except as otherwise authorized by the Steering Committee and Sub-committee by special agreement with the Requestor.

*The attached Exhibit is hereby incorporated.

5. The distribution or use of the digital base maps in violation of the foregoing provisions shall be deemed a copyright violation and shall automatically terminate all rights of the Requestor relative to the digital base maps or any materials derived therefrom.

6. The Requestor agrees to reimburse the County, if requested, in the amount set forth in the attached cost schedule in connection with obtaining a copy or copies of the digital base maps.

7. The Requestor understands that the digital base maps and materials are being provided AS IS, WITHOUT ANY WARRANTY BY THE UTILITIES AND THE MCAMLIS STEERING COMMITTEE OF MERCHANTABILITY OR FITNESS FOR ANY PARTICULAR PURPOSE, AND WITHOUT ANY WARRANTY OF ACCURACY. The Requestor hereby agrees to indemnify, defend, and hold harmless the Utilities, the MCAMLIS Steering Committee, the County, and any other party to the MCAMLIS program and their subcontractors from any claims arising out of the Requestor's use of the digital base maps or any information or materials derived therefrom.

8. The Requestor understands that neither the Utilities nor the County has any obligation to supplement or update any of the digital base maps provided. Should, however, the Utilities or the County provide any updated digital base maps to the Requestor, such updated maps shall automatically be covered hereunder.

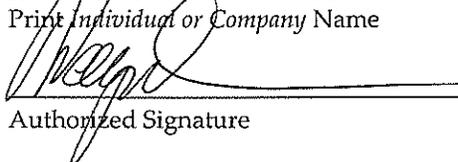
9. In the event that MCAMLIS derived hardcopy maps depicting the MCAMLIS copyright have been modified by Requestor, the Requestor shall describe such modification and depict the modification as clearly distinguishable from the original MCAMLIS base maps. The Requestor agrees not to misrepresent the MCAMLIS base maps, nor to state or imply that modifications made by Requestor were authorized by MCAMLIS.

AGREED TO:

Requestor:

Name: **Group 1 Software, Inc. Wayne Arden** Title: **General Counsel**

Print Individual or Company Name

By: 

Authorized Signature

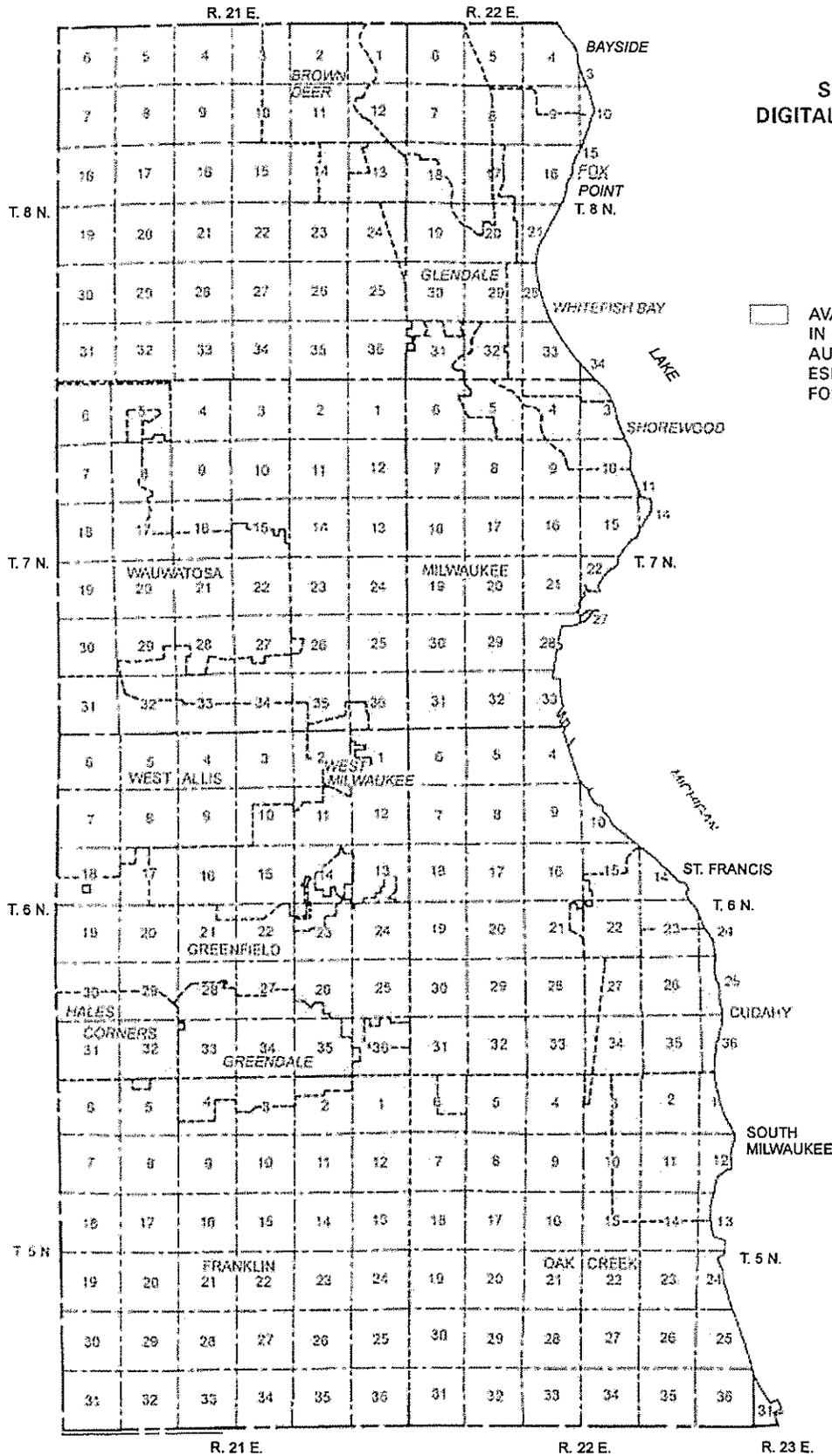
By: _____ Date: _____

Utilities

By: _____ Date: _____

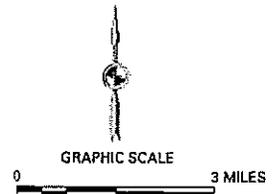
Exhibit D

STATUS OF MCAMLIS
DIGITAL TOPOGRAPHIC MAPPING



AVAILABLE FOR DISTRIBUTION
 IN MICROSTATION DGN,
 AUTOCAD 2000 DWG AND
 ESRI ARCINFO COVERAGE
 FORMATS

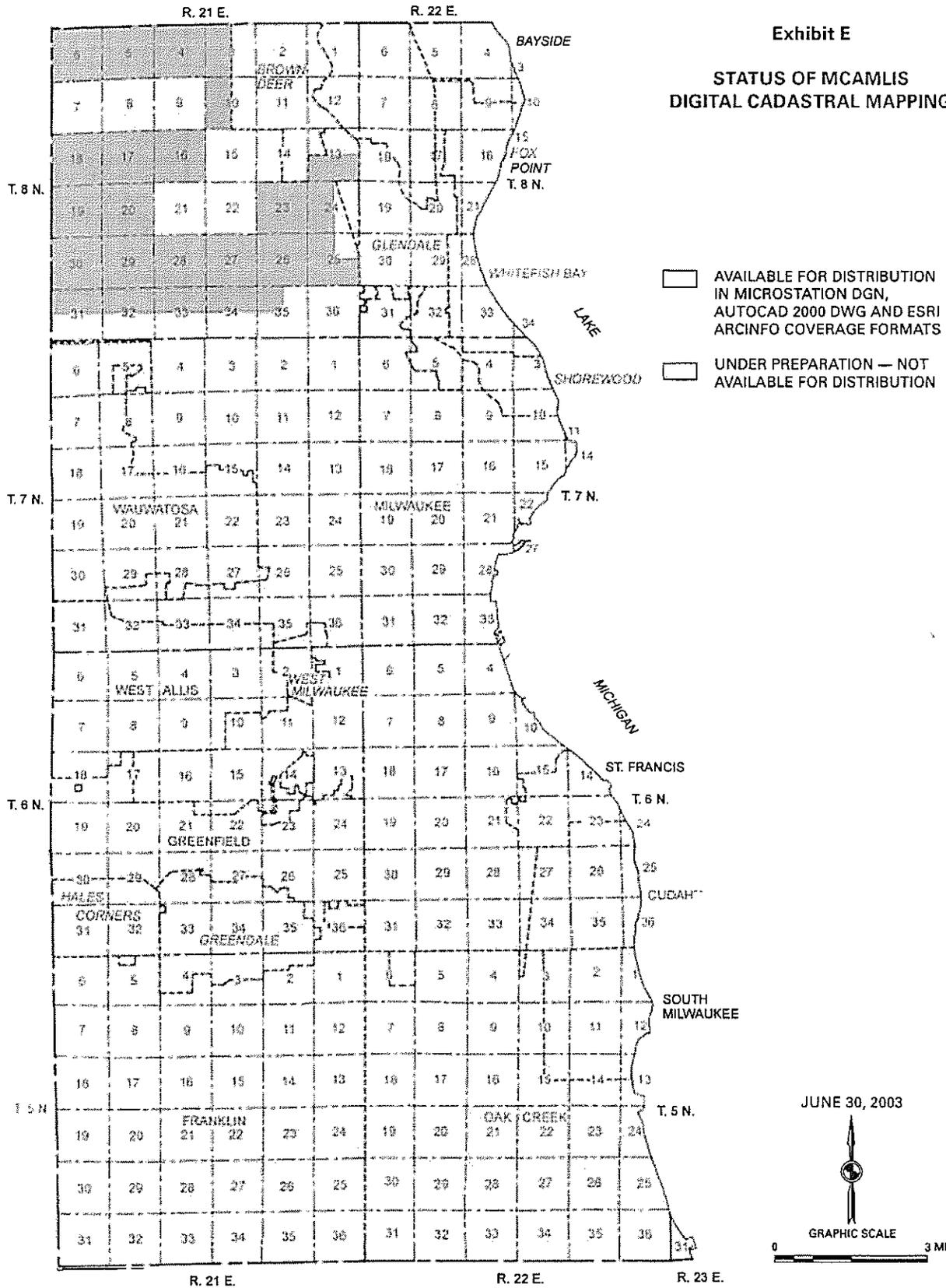
DECEMBER 31, 2002



Source: MCAMLIS Project Manager.

Exhibit E

STATUS OF MCAMLIS
DIGITAL CADASTRAL MAPPING



Source: MCAMLIS Project Manager.

EXHIBIT 1

Terms of Use

Notwithstanding any limitations and restrictions set forth in the Agreement, the Licensor or Data Provider, hereby acknowledges that solely with respect to creating the derivative products and services set forth below Group 1 may copy, publish, sell, license, sublicense and transfer the data received under the Agreement (the "Data") provided by Licensor or Data Provider for:

- (a) creating improved geocoding databases to enhance positioning, routing, navigation, and delivery;
- (b) creating a proprietary, view-only database of parcel boundaries for display in Group 1's software solutions, allowing users to visually verify the location of point-level geocodes; and,
- (c) using the data to build a web-based resource allowing users to view Group 1's parcel boundaries combined with other third-party datasets, provided no vector data will be accessible through this mechanism.

Group 1 shall be the sole owner of all intellectual property rights and all proprietary interests in the derivative products set forth above, or in any modifications or derived work or work in progress relating thereto and shall not be required to provide Licensor or Data Provider any copies of such derivative products.