

MINUTES OF THE 58th MEETING

Milwaukee County Automated Mapping and Land Information System Steering Committee

DATE: November 18, 2003
TIME: 9:00 A.M.
PLACE: Milwaukee County Courthouse
901 N. 9th Street
Room 203-P
Milwaukee, WI

Members Present

Kurt W. Bauer, Chairman
John M. Bennett

Gregory G. High
(representing Thomas D. Kenney)
John LaFave
Thomas F. Lewandowski

David S. Misun

Nancy A. Olson
John C. Place
William C. Shaw

Members Absent
Dextra Hadnot

Milwaukee County Surveyor
City Engineer, City of Franklin, representing the
Intergovernmental Coordination Council of Milwaukee County
Director, Architectural and Engineering Services, Milwaukee
County Department of Public Works
Register of Deeds, Milwaukee County
Fiscal and Management Analyst, Milwaukee County Department
of Administrative Services
Facilities Information Supervisor, Milwaukee Metropolitan
Sewerage District
GIS Manager, City of Milwaukee
Manager, Maps and Records, WE Energies
Manager, Geographic Information Systems, WE Energies

Director, External Affairs, SBC

Guests and Staff Present

Kathleen A. Bach
Wendy J. Bradshaw
Jeffrey T. Fortin
Marcia G. Lindholm

Reinhard B. Meihnsner
Thomas D. Patterson
Kevin R. White

GIS Technician, Register of Deeds Office, Milwaukee County
SEWRPC Secretary
Planning and Zoning Administrator, City of Glendale
Central Drafting and Records Manager, Infrastructure Service
Division, City of Milwaukee
Consultant, Spatial Data Solutions, Inc.
MCAMLIS Project Manager
GIS Supervisor, Department of Public Works, Milwaukee County

ROLL CALL

The 58th 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.

CONSIDERATION OF THE MINUTES OF THE 57TH STEERING COMMITTEE MEETING HELD ON JULY 15, 2003

Chairman Bauer noted that copies of the minutes of the 57th meeting of the Steering Committee held on July 15, 2003, had been distributed to all members of the Committee for review prior to the meeting and asked that the Committee consider those minutes.

There being no questions, comments, or corrections, on a motion by Ms. Olson, seconded by Mr. Bennett, and carried unanimously, the minutes of the meeting of July 15, 2003, were approved as published.

REPORTS

Report By Project Staff On the Status Of County WLIP 2000 And 2001 Grant Projects and the Announcement of the WLIP 2004 Grant Awards

Mr. Patterson reported that the two projects associated with the County's contribution-based grants from the 2000 WLIP grant cycle—Phase 4 and Phase 5 of the City of Milwaukee cadastral map transformation project—have been completed. Final project completion reports have been filed with the State. Mr. Patterson further reported that the 2001 WLIP grant project—Phase 6 of the City of Milwaukee cadastral map transformation project—has also been completed and that the final project completion report is being prepared and will shortly be submitted to the State.

Mr. Patterson also reported that the amendment to the Milwaukee County Land Modernization Plan, which had been adopted by the Steering Committee at its meeting held on July 15, 2003, had been submitted to the State on August 4, 2003. The letter transmitting the amendment had been attached to the July 15, 2003, meeting minutes. Mr. Patterson noted that on November 14, 2003, he had received an electronic mail communication from the State indicating that the amendment has been reviewed and approved.

There being no questions or comments on the report, it was the consensus of the Committee that the report be placed on file via the minutes of the meeting.

Mr. Patterson then reported that the State had recently released application materials for the WLIP year 2004 cycle grant applications. Mr. Patterson noted that for this round of grants, no contribution-based grants would be awarded to any counties in the State. Milwaukee County, therefore, would be eligible only to receive a \$300 education and training grant during this grant cycle.

Mr. Patterson then noted that a copy of the awards portion of the WLIP year 2004 cycle grant announcement had been distributed to all members of the Committee for review prior to the meeting (copy attached to these minutes). Ms. Olson asked for an explanation of the awards identified as "Land Information Base Budget Awards" which were being granted to 17 of the State's 72 counties.

Mr. Patterson replied that as a policy established by the Wisconsin Land Information Board, no county would have less than \$35,000 annually for land records modernization activities; therefore, for counties collecting less than \$35,000 annually from the locally retained document filing fees identified for land records modernization, the Board makes up the difference between the amount a county collects per year and \$35,000 as a land information base budget award. This practice benefits the less populated counties in the State.

Chairman Bauer then asked for a motion to authorize the project staff to apply for a WLIP 2004 education and training grant in the amount of \$300. There being no further questions or comments, on a motion by Mr. Lewandowski, seconded by Ms. Olson, and carried unanimously, the staff was directed to file the County's WLIP 2004 grant application.

Report by City of Milwaukee Staff On The Status Of The City Of Milwaukee Cadastral Map Transformation Project

Chairman Bauer noted that all members of the Steering Committee had received a copy of the report on the City of Milwaukee cadastral map transformation project for review prior to the meeting. Chairman Bauer asked Ms. Olson to review the report with the Committee, which Ms. Olson did with reference to the status map attached to the report.

Ms. Olson reported that all remaining maps in the Phase 4, 5, and 6 project areas had been completed since the last status report provided to the Steering Committee at its meeting held on July 15, 2003. Ms. Olson further reported that the remaining maps in the Phase 7 project area would most likely be completed before the end of 2003 and that work in the Phase 8, 9a, and 9b project areas is on schedule and should be completed by October 2004.

Mr. Place asked for an explanation as to why there was a 9a and a 9b project area. Mr. Patterson responded that the geographic area that had originally been intended to be the Phase 9 project area had been divided into two smaller project areas in order to better utilize Milwaukee County's WLIP 2002-2003 contribution-based grant awards.

There being no further questions or comments on the report, it was the consensus of the Committee that the report be placed on file via the minutes of the meeting (copy of report attached to these minutes).

Report On The Status Of The Transfer Of City Of Milwaukee Cadastral Maps Compiled And Transformed To MCAMLIS Standards To The County Register Of Deeds Office For Maintenance

Mr. Patterson reported that all City of Milwaukee transformed and recompiled cadastral maps completed as of July 2003, were transmitted to the County Register of Deeds Office by letter dated August 18, 2003, (copy of letter attached to these minutes). Mr. Patterson indicated that the responsibility for maintaining these maps current, in accordance with the agreement entered into between the Milwaukee County Register of Deeds Office and the Southeastern Wisconsin Regional Planning Commission, dated April 4, 2000, the Commission acting on behalf of the MCAMLIS Steering Committee, now rested with the County Register of Deeds staff.

Mr. Lewandowski noted that the original agreement between the Register of Deeds Office and the Regional Planning Commission gave the Register of Deeds responsibility only for maintaining maps outside the City of Milwaukee. He asked if the \$60,000 annual payment made to the Register of Deeds Office for map maintenance would be sufficient to cover the additional work that was being transferred to that Office. Mr. Patterson responded that there was insufficient experience to date to be able to make a conclusive statement on this issue. Chairman Bauer noted that this possibility had been noted on several previous occasions as part of the discussion concerning the transfer of responsibility for map maintenance from the Regional Planning Commission to the Register of Deeds Office. Chairman Bauer stated that as the Register of Deeds staff gains experience with the maintenance function, it may be necessary for the Office to ask for additional funding from the Steering Committee to support the map maintenance activity. Chairman Bauer further stated that, in his opinion, it would be the responsibility of the MCAMLIS program to provide any needed additional funding.

There being no further questions or comments on the report, it was the consensus of the Committee that the report be placed on file via the minutes of the meeting.

Report By Project Staff On Efforts To Secure Timely Transfer Of Data Required To Maintain The MCAMLIS Street Address Coding Files Current

Mr. Patterson reported that, in accordance with the action agreed upon at the meeting of July 15, 2003, all 18 suburban units of government within the County were now reporting street address data in a timely way permitting Ms. Bach to update the MCAMLIS street address files on at least an annual basis.

Mr. Patterson reported by way of background that several of the suburban units of government had fallen behind in supplying material to Ms. Bach for the street address file maintenance. Mr. Patterson noted that each of these units of government had now been contacted and had agreed to procedures leading to more timely reporting of the needed information. Mr. Patterson further noted that in some instances, such as the Village of Fox Point, it would be necessary for MCAMLIS staff to go to the municipal offices and copy the needed information.

Mr. Bennett asked if the newly acquired addressing information was being attached to structures. Mr. Patterson responded that this practice was indeed being followed. Mr. Bennett then asked how this practice was followed in newly plated areas where no construction activity had yet occurred. Ms. Bach replied that in those cases a "dummy" map symbol was utilized for the attachment of the street address.

There being no further questions or comments on the report, it was the consensus of the Committee that the report be placed on file via the minutes of the meeting.

Report By Milwaukee County Register Of Deeds Staff On MCAMLIS Cadastral Map And Street Address File Maintenance Operations

Chairman Bauer noted that all Committee members had received copies of maps showing the status of the Milwaukee County cadastral map and street address file maintenance as of October 30, 2003, for review prior to the meeting. He then asked Ms. Kathleen A. Bach, GIS Technician, Milwaukee County Register of Deeds Office, to report on the status of the work concerned.

Ms. Bach briefed the Committee on the status of the work using the two maps, one relating to the MCAMLIS cadastral file and one related to the MCAMLIS street address database. Ms. Bach noted that with respect to maintenance of the cadastral maps, these maps were now current through July 31, 2003.

Mr. Shaw asked about the small non-colored rectangle within the City of Greenfield on the status map. Mr. Patterson responded that the area in question was an outlier of the City of West Allis, completely surrounded by the City of Greenfield. Mr. Patterson further noted that there is a water system facility located on that parcel and that its lack of coloration was a result of not being identified on the status map as part of the City of West Allis.

There being no further questions or comments on the report, it was the consensus of the Committee that the report be placed on file via the minutes of the meeting (copies of status maps attached to these minutes).

Report By Project Staff On The Status Of The MCAMLIS Floodplain Mapping Project

Chairman Bauer noted that all Committee members had received a copy of a staff memorandum setting forth the current status of the MCAMLIS floodland mapping project for review prior to the meeting. He further noted that the attached Exhibit I bore an incorrect status date and that this would be corrected on the copy of the status report attached to the minutes of this meeting.

Chairman Bauer noted that the continuous flow simulation model procedures being used by the Commission staff for the work in the Menomonee River, Oak Creek, Root River, and Kinnickinnic River watersheds had not, as yet, been approved by the Wisconsin Department of Natural Resources (DNR). The continuous flow simulation model procedures being used had, however, been carefully reviewed by the Federal Emergency Management Agency (FEMA) and in a letter report to the Commission dated August 14, 2003, that agency had indicated that the procedures were considered by FEMA to be state-of-the-art and acceptable to FEMA. The FEMA letter report, however, also noted that the final decision concerning this issue rested with the DNR. Chairman Bauer indicated that as previously reported to the Steering Committee, the work was, nevertheless, proceeding since further delays attributable to the DNR approval were unacceptable if the Phase 1 work were to be completed in a timely fashion.

In response to a question from Mr. Shaw, Chairman Bauer indicated that as the floodplain limits are mapped, those maps will be available in both digital and hardcopy format from the Regional Planning Commission, and that members of the Steering Committee wishing to obtain such maps should contact Mr. Patterson. Chairman Bauer further noted that hardcopy maps of recently completed flood hazard mapping for Lincoln Creek would be transmitted to the City of Milwaukee in the near future.

[Secretary's Note:

By letter dated November 20, 2003, the preliminary flood hazard mapping for Lincoln Creek was transmitted to the City of Milwaukee for review. A copy of the letter of transmittal is attached to these minutes. It is further noted in this regard that preliminary flood hazard maps for Underwood Creek have been transmitted to the City of Wauwatosa and that preliminary flood hazard maps for the South Branch of Underwood Creek have been transmitted to the City of West Allis for review by these municipalities. Copies of these letters of transmittal are also attached to these minutes.]

In response to a question from Mr. Bennett, Mr. Patterson stated that the entire floodland mapping project, including both the Phase 1 and Phase 2 portions of the project, was expected to be completed by the end of 2006.

There then followed a short discussion concerning the reluctance of the DNR to approve the use of continuous simulation modeling in the conduct of the hydrologic analyses needed for flood hazard mapping despite the fact that the use of such modeling was deemed acceptable by FEMA. Chairman Bauer volunteered the observation that the DNR staff does not seem to understand continuous simulation modeling, which is a relatively new technique, and are reluctant to depart from the use of the older modeling methodologies. Chairman Bauer further observed that the Regional Planning Commission staff believes the alternative methods with which the DNR staff seems more comfortable are obsolete.

At the conclusion of this discussion, Chairman Bauer stated that the favorable review from FEMA concerning continuous simulation modeling notwithstanding, final approval of this modeling and subsequent mapping still rests with the DNR.

There being no further questions, comments, or discussion on the report, it was the consensus of the Committee that the report be placed on file via the minutes of the meeting (copy of corrected Memorandum attached to these minutes).

Report by Milwaukee County Surveyor on Control Survey System Maintenance

Chairman Bauer distributed a copy of a memorandum on the activities through November 15, 2003, of the Milwaukee County Surveyor in calendar year 2003. He noted that this was the second such report to be provided to the Steering Committee, the first reporting activities for calendar year 2002 presented to the Committee at its meeting held on January 28, 2003. He then briefly reviewed the memorandum with the Committee.

Chairman Bauer called the Committee's attention to the map attached to the report setting forth the location of work completed thus far during 2003. He noted that through November 15, 2003, a total of 45 corners had been perpetuated and the corresponding dossiers revised as necessary. He noted that an additional 12 corners as also shown on the map would have some form of perpetuation or maintenance activity performed before the end of 2003 as indicated on the map. He further noted that the County Surveyor was currently researching the history of the Control Survey monument that had been set to mark the intersection of Brady Street extended to the east and Oakland Avenue extended to the south in view of recently discovered evidence. Based upon the final results of this investigation, it may prove necessary to reposition the monument, compute new State Plane coordinates and a new elevation for the monument, and to compute new bearings and lengths for the affected quarter section lines.

Chairman Bauer reported further that under State statutes, surveyors must file plats of surveys, other than subdivision plats and certified survey maps, with the County Surveyor. Between January 1, 2003, and November 15, 2003, 1,400 plants were filed bringing the total number of filed plats to over 37,000. As part of the County Surveyor's responsibilities, these plats are indexed and available for ready retrieval. Private surveyors use these files frequently.

Ms. Olson asked if the change in coordinates for the survey monument located at the intersection of Brady Street extended and Oakland Avenue extended would require changes to the topographic and cadastral maps concerned. Mr. Patterson replied that whether or not a correction or corrections would be needed to the maps would depend upon the cardinal distances involved in the repositioning of the

monument concerned. Chairman Bauer added that if the location and orientation of quarter section lines change more than the permitted accuracy of the mapping, then the affected maps, both topographic and cadastral, would need to be revised.

Ms. Olson asked to be notified when the maintenance work at Brady Street and Downer Avenue was completed.

There being no further questions or comments on the report, it was the consensus of the Committee that the report be placed on file via the minutes of the meeting (copy of report attached to these minutes).

Report By Project Staff On The Status Of The First MCAMLIS Newsletter

Mr. Patterson reported that a contract governing the preparation of the MCAMLIS newsletter had been entered into on October 16, 2003, between the Steering Committee and the Regional Planning Commission. The contract provides for the publication of one MCAMLIS newsletter in calendar year 2003 and two in calendar year 2004.

Mr. Patterson further reported that he was engaged in the preparation of the first issue, which, as previously suggested by the Steering Committee, was to include a brief history of the MCAMLIS program, and an inventory of the materials and information available from MCAMLIS.

Mr. Patterson noted that the newsletter would be available over the Internet as a PDF file and would also be available in hardcopy form. In response to a question from Mr. Bennett, Mr. Patterson noted that the newsletter would be automatically distributed to the attention of all municipalities within Milwaukee County.

There being no further questions or comments on the report, it was the consensus of the Committee that the report be placed on file via the minutes of the meeting.

Report By Milwaukee County Department Of Public Works Staff On The Status Of The Milwaukee County GIS Needs Assessment

Chairman Bauer recalled that the Steering Committee, at the request of the Milwaukee County Department of Public Works staff, had, at its meeting of July 15, 2003, acted to table proposals for three MCAMLIS projects: the conversion of the MCAMLIS digital cadastral maps to a seamless map environment; the development of a transactional map update capability for the resulting MCAMLIS cadastral map layer; and the extension of the MCAMLIS street address database to include the City of Milwaukee street address database. In taking these three actions, the Committee had also acted to request the Milwaukee County Department of Public Works staff to brief the Committee on the status of the creation of a County geodatabase as soon as the County staff was ready to present a cogent briefing regarding this issue. Chairman Bauer further recalled that the Steering Committee had, at its meeting on July 15, 2003, acted to provide up to \$45,000 of MCAMLIS funding to the County Department of Public Works for the purpose of conducting a County geodatabase needs assessment.

Chairman Bauer noted that all members of the Steering Committee had received a copy of a Memorandum prepared by the Milwaukee County Department of Public Works staff reporting the status of the needs assessment concerned for review prior to the meeting (copy of memorandum attached to these minutes). He then asked Mr. High, Director, Architectural and Engineering Services, Milwaukee County Department of Public Works, to review the report with the Committee. Mr. High briefly reviewed the memorandum with the Steering Committee reporting that the Department of Public Works had conducted a standard request for proposals procedure for selection of a consultant to carry out the desired needs assessment. He further reported that a panel consisting of Mr. Shaw, Ms. Olson, and representatives from the County Register of Deeds office, the County Department of Administrative Services, and the County Department of Public Works had reviewed and graded the proposals received. On the basis of this review and grading, the firm GEOAnalytics was judged to be the most qualified firm to carry out the desired work. Following the selection, Department of Public Works staff met with the project team from GEOAnalytics to negotiate a cost for the work set forth in the County's original solicitation. Mr. High noted that the cost submitted by GEOAnalytics was \$118,000. Mr. High reminded the Steering Committee that at its meeting held on July 15, 2003, the Steering Committee had approved an expenditure not to exceed \$45,000 for this needs assessment. Mr. White noted that the initial tasks presented to the Steering Committee at the July 15, 2003, meeting had been expanded and that it was on the basis of this expanded scope of work, that GEOAnalytics had submitted their cost proposal. Mr. High further noted that a copy of the refined scope of work was attached to the memorandum distributed to the Steering Committee and that items added to the scope of work since its initial review by the Steering Committee were highlighted. Mr. High further stated that on the basis of this revised scope of work, the Department of Public Works was asking for Committee approval of an additional amount of \$75,000, or a total of \$115,000, to carry out the desired needs assessment.

Chairman Bauer noted that no additional consideration could be given to the previously referenced three projects that had been tabled until completion of the County's needs assessment and the report and recommendations of that needs analysis were received by the Steering Committee. Chairman Bauer expressed the opinion that at the time that that report is received, there may also be a need to reconsider the future roll of the Steering Committee, if any, if the report recommends responsibility for the MCAMLIS program be transferred to Milwaukee County staff.

In response to a question from Mr. Shaw, Mr. Patterson stated that the additional \$75,000 being requested could be accommodated within the applicable MCAMLIS budgets; however, budgetary constraints might require the commitment of this sum prior to December 31, 2003, as part of the MCAMLIS program 2003 expenditure authority. Mr. Patterson further noted that it might be difficult to accommodate this sum completely under the 2004 MCAMLIS program expenditure authority. In answer to a question from Mr. Shaw, Chairman Bauer stated that according to the timeline contained in the memorandum, the needs assessment should be completed by the end of April 2004.

There being no further questions or comments, on a motion by Mr. Bennett, seconded by Ms. Olson, and carried unanimously, the request for additional MCAMLIS funds in the amount of \$75,000 to be utilized by the Milwaukee County Department of Public Works for the expanded scope of work set forth in the memorandum was approved.

Report On Status Of License Agreements

Chairman Bauer noted that all members of the Steering Committee had received a copy of a table listing all of the license agreements governing the provision of MCAMLIS base maps and related data to users and the use of such data as executed from January 1, 2003, through October 31, 2003, for review prior to the meeting.

There being no questions or comments on the report, it was the consensus of the Committee that the report be placed on file via the minutes of the meeting (copy of table attached to these minutes).

Report On Status Of MCAMLIS Cash Flow

Chairman Bauer noted that all members of the Steering Committee had received a copy of a table summarizing the status of the MCAMLIS program cash flow as of August 31, 2003, for review prior to the meeting. He then asked Mr. Lewandowski to review the report with the Committee.

Mr. Lewandowski then distributed an updated table summarizing the status of the MCAMLIS cash flow as of October 31, 2003, and reviewed the table with the Committee, noting that year-to-date revenues were at a level of approximately \$1.3 million and that year-to-date expenditures were at a level of approximately \$0.7 million. Mr. Lewandowski further noted that the program was again experiencing positive cash flow after a period of about a year of negative cash flow.

There being no questions or comments on the report, it was the consensus of the Committee that the report be placed on file via the minutes of the meeting (copy of table setting forth the MCAMLIS cash flow status as of October 31, 2003, attached to these minutes).

Report On Status Of MCAMLIS 2004 Budget

Chairman Bauer noted that all members of the Steering Committee had received a copy of the calendar year 2004 MCAMLIS budget request made to the Milwaukee County Executive and County Board. He then asked Mr. Patterson to brief the Committee on the budget request.

Mr. Patterson reported that in accordance with past practice, Milwaukee County Department of Administrative Services staff and MCAMLIS project staff had collaborated on the preparation of a proposed MCAMLIS 2004 budget request. This budget request, he said, was submitted to the County review process and had been presented to the Milwaukee County Board Finance and Audit Committee on October 3, 2003, and was recommended by that Committee for approval to the County Board and County Executive.

Mr. Lewandowski reported that the MCAMLIS 2004 budget request had been approved by the Milwaukee County Board on November 17, 2003. In answer to a question from Mr. Shaw, Mr. Lewandowski stated that the budgeted expenditure amounts would be available to expend as of January 1, 2004, subject to the receipt of the budgeted income.

Chairman Bauer noted that the 2004 budget was balanced, providing for proposed expenditures and revenues of \$912,500, a reduction of approximately 9 percent from the approved 2003 budget. Chairman Bauer indicated, however, that the amount available for commitment to new projects during 2004 would need to be carefully monitored relative to the results of the County geodatabase needs assessment and the three projects recommended by the MCAMLIS Land & Utility Information System Internet Prototype Study.

There being no further questions or comments on the report, it was the consensus of the Committee that the report be placed on file via the minutes of the meeting (copy of 2004 budget request attached to these minutes).

Report by Milwaukee County Register of Deeds on Potential Projects Eligible for Funding Using the \$1 Portion of the Locally Retained Document Filing Fees

Chairman Bauer noted that Mr. LaFave, as the County Register of Deeds, had prepared a list of projects which his Office desired to undertake with funding derived from the \$1 portion of the locally retained document filing fees. He noted further that all members of the Steering Committee had received a copy of the list as compiled by the Milwaukee County Register of Deeds for review prior to the meeting. He then asked Mr. LaFave to review the list with the Committee.

Mr. LaFave then distributed a revised list to the Steering Committee noting that changes between the original distribution and the revised list were highlighted on the revised list (copy of revised list attached to these minutes). Mr. LaFave noted, in particular, that the request to create a file transfer protocol (FTP) site had been withdrawn given that he had since learned that the County Information Management Services Division (IMSD) was already intending to create such a site.

Mr. LaFave quickly reviewed the projects on the revised list, noting at the conclusion of his review that all of the proposed projects were in keeping with the intent of improving public access to the filed records by making the indexing, storage, and retrieval of these records more efficient and more rapid.

In answer to a question from Chairman Bauer, Mr. LaFave indicated that the same fees were collected for electronically recorded documents as were collected for recorded paper documents.

In answer to a question from Ms. Olson concerning use of the Laramie software product, Mr. LaFave indicated that use of that software had not been extensive to date. He noted that two title companies had currently made arrangements to conduct searches from their sites using this product. He further noted that municipal government entities will be able to access the software at a much lower charge than private companies, but, to date, none had yet chosen to do so.

In answer to a question from Chairman Bauer, Mr. LaFave stated that the total costs estimated for each item on the list were intentionally high and intended to cover unexpected costs in the event that those might arise. He noted that for past requests of this kind, his Office had often been able to acquire the requested hardware and software at a total cost of less than the amounts approved by the Steering Committee.

In answer to a question from Ms. Olson, Mr. LaFave stated that the microfiche conversion project contained on the list would help extend the capability of the Laramie software, and that if the noted project proved successful, the office might attempt to convert even older groups of microfiche and microfilm records. He did note, however, that the majority of title searches can usually be satisfied by examining no more than the most recent seven years of records.

Chairman Bauer noted that the Register of Deeds was asking for Steering Committee approval for the submitted list of projects utilizing the \$1 locally retained document filing fee. He stated further that it was clearly the intent of the Register of Deeds to use these projects to improve accessibility to these records by the public, thereby meeting the intent of the Statute that created the fee.

In response to questions from Messrs. High, Lewandowski, and Shaw, Mr. LaFave indicated that all applicable Milwaukee County procurement requirements would be followed. Chairman Bauer noted that past practice had been for the MCAMLIS Project Manager to provide a letter to Mr. LaFave indicating that the proposed purchase had been approved by the Steering Committee and that funds were available to cover the proposed expense. Mr. LaFave stated that this procedure had worked quite well in the past.

Mr. Shaw noted that an amount of \$240,000 had been approved by the Steering Committee at its meeting held on April 10, 2003, for computer hardware and software enhancement in the Register of Deeds Office and that the projects and amounts proposed here were separate from that approval, thereby bringing the total amount requested by the Register of Deeds during 2003 to approximately \$0.5 million. Mr. Patterson noted that in addition to those amounts, several smaller amounts had been approved by the Steering Committee for the use of the Register of Deeds in the later part of 2002 and in early 2003. He stated that his computations indicated that the \$240,000 recently approved, and the several amounts approved earlier, brought the total amount approved by the Steering Committee so far to approximately \$283,000. He further noted that if the request currently under consideration were to be approved by the Steering Committee, the total amount requested for expenditure by the Register of Deeds from the \$1 local retained document filing fee would be approximately \$571,000. He further noted that the cash flow statement distributed earlier in the meeting reported that as of October 30, 2003, approximately \$547,000 had been collected from this fee. Chairman Bauer stated that since the fee would be collected for several more years based upon the current Statutes, he saw no reason why the total amount requested by the Register of Deeds would not be available.

There being no further questions or comments, on a motion by Mr. LaFave, seconded by Mr. Lewandowski, and carried unanimously, the projects requested by Mr. LaFave were approved subject to the condition that sufficient revenues were available to cover project expenses at the time that each individual project was implemented.

Mr. Patterson noted that because of the manner in which expenditure categories had been established in the MCAMLIS program budgets for 2003 and 2004, it would most likely be necessary to encumber a portion of the requested \$240,000 during 2003 with the balance encumbered during 2004. Mr. Patterson further stated that he would examine this situation and provide specific guidance to Mr. LaFave and Mr. Lewandowski with respect to how this could be accommodated.

OLD BUSINESS

Report On Meeting Between the Milwaukee County Register of Deeds and the City of Milwaukee Assessor to Consider Elimination of Duplicative Work Between the County and City Staffs

Chairman Bauer noted that the Committee had, at its meeting held on January 28, 2003, requested that Ms. Olson arrange a meeting between the Milwaukee County Register of Deeds and the City of Milwaukee Assessor to consider the elimination of duplicative work between the County and City staffs. The request, he said, was reiterated at the Committee's April 8, 2003, and June 10, 2003, meetings. He recalled that it was reported at the July 15th Steering Committee meeting that an initial meeting of representatives of the Milwaukee County Register of Deeds Office and the City of Milwaukee Assessor's Office was held on July 7, 2003, and that a second meeting would be held on July 22, 2003. He noted that all Steering Committee members had received a copy of a status report summarizing the discussion that occurred at the July 22, 2003, meeting, and subsequent discussions, for review prior to this meeting. He then asked Ms. Olson to report on the meeting and subsequent discussions between the staffs concerned (a copy of Ms. Olson's report is attached to these minutes).

Ms. Olson reported that meetings held between the Milwaukee County Register of Deeds and the City of Milwaukee Assessor had initially been intended to deal with maintenance issues concerning the assumption of the maintenance by the Register of Deeds Office of the MCAMLIS digital cadastral maps covering the City of Milwaukee. She noted, however, that discussions had moved from this issue to tax listing functions because the County does not prepare the tax listing for the City of Milwaukee, thereby making the maintenance of the City maps by County staff more difficult, and because the City Assessor was surprised to learn that while the City of Milwaukee performs its own tax listing, Milwaukee County performs this function for the remaining 18 municipalities in the County.

The City Assessor, Ms. Mary Reavey, believes that the current tax listing arrangements are inequitable for City of Milwaukee residents in that they pay the full costs for tax listing in the City of Milwaukee and a portion of the total cost for the tax listing function in the remaining 18 Milwaukee County municipalities. She is further of the opinion that given current budgetary constraints and staffing considerations within her office, this would now be an opportune time to explore opportunities for reducing the apparent duplication of effort in the tax listing process. She further acknowledges, however, that changes of the City procedures would require involvement of the Mayor's office, and that with the current mayor leaving office at the end of 2003, and the election of his successor not occurring until April 2004, it is unlikely that any fruitful discussions could occur until after the election.

Mr. LaFave stated that the current arrangement for tax listing is longstanding and that the City of Milwaukee apparently chose to exercise this function for itself sometime ago. He further noted that State Statutes do not require counties to provide tax listing for municipalities; that tax listing is a voluntary county procedure and that indeed the County had attempted to transfer this function to the 18 suburban municipalities about a decade ago, but had been dissuaded from this action by the assessors of the suburban municipalities concerned. He further noted that his assessment of the current situation indicated that absorbing the tax listing function for the City of Milwaukee would require the addition of one to two additional staff positions in his office. He stated that it is his opinion that with the County's current budgetary constraints he would be unable to convince the County Board to approve adding tax listing for the City of Milwaukee to the County's present tax listing activities.

Chairman Bauer stated his agreement with Ms. Reavey's assessment that no fruitful discussions concerning the current situation could occur until after the spring 2004 elections. He further opined that any changes would have to involve the incoming Mayor of the City and the County Executive, stating further that the Register of Deeds, the City Assessor, and the Steering Committee may be called upon to provide their opinions concerning an equitable and efficient process. He agreed further with Ms. Reavey's assessment that the current arrangement is inequitable for City of Milwaukee taxpayers, but noted that consolidations of this type would most likely require pressure from citizen groups and public organizations as these organizations continue to push for reduced governmental costs.

At the conclusion of the short ensuing discussion, it was the consensus of the Steering Committee that any additional action on this issue would indeed not be profitable until after the April 2004 elections. Therefore, on a motion by Mr. Bennett, seconded by Mr. High, and carried unanimously, further investigation and discussion of this issue was tabled until after the April 2004 elections.

Status of Proposed MCAMLIS Projects Tabled at the July 15, 2003, Meeting

Chairman Bauer recalled that the Steering Committee had, at the meeting of July 15, 2003, acted to table Agenda Items IV.B, IV.C, and IV.D related to the proposals for three MCAMLIS projects: the conversion of the MCAMLIS digital cadastral maps to a seamless map environment; the development of a transactional map update capability for the resulting MCAMLIS cadastral map layer; and the extension of the MCAMLIS street address database to include the City of Milwaukee street address database. He noted that since the County had not completed its geodatabase needs assessment, County staff were not ready to make recommendations concerning these three proposals. Therefore, he said, consideration of these three project proposals would continue to be postponed until the County staff are ready to make recommendations concerning these proposals.

Consideration of a Report on the MCAMLIS Digital Map Copyright and Attendant License Agreement Practices

Chairman Bauer recalled that the Committee had, at its meeting of July 15, 2003, approved a project staff memorandum reviewing the MCAMLIS digital map copyright and attendant license agreement practices. In accordance with that staff memorandum, the Steering Committee had authorized the project staff to contact individual Utilities Subcommittee members to brief them on the history of this issue, organize a meeting of the Utilities Subcommittee and interested County staff to consider the current interest in continuing the current practices; and to prepare a report for consideration by the Steering Committee that reflected the Utilities Subcommittee position on this matter. He noted that the project staff had retained Mr. Reinhard B. Meihnsner, consultant, Spatial Data Solutions, Inc., and a former member of the Steering Committee, to prepare the authorized report. He noted further that the Committee had received a copy of the report concerned for review prior to the meeting. Chairman Bauer then asked Mr. Meihnsner to review the report with the Committee.

Mr. Meihnsner proceeded to review the memorandum with the Steering Committee on a page-by-page basis. At the conclusion of that review, he noted the statement within the document that representatives of Wisconsin Electric Power Company and Wisconsin Gas Company, both now part of WE Energies, had stated that they were willing to relinquish control of the MCAMLIS digital mapping materials copyright. He further noted for the Committee's benefit that efforts to secure the participation of SBC at that meeting had been unsuccessful. He did note, however, that a letter had been received from Mr. Dextra Hadnot of SBC the day before this current Steering Committee meeting; copies of which Mr. Meihnsner then distributed to the Steering Committee (copy of Mr. Hadnot's letter attached to these minutes).

Mr. Meihnsner stated that based upon reading the letter and its attachment, he believed that SBC did not fully understand the issue under discussion, further stating that he believed SBC thought they were being asked about access to their corporate digital mapped information. He stated that further attempts would need to be undertaken to clarify the Steering Committee's intent and SBC's statement.

Chairman Bauer noted that it was stated on page 3 of Mr. Meihnsner's report that the group convened to discuss the copyright issue had acknowledged that the concurrence of SBC should be sought before any final action was taken on the release by the utilities of the copyright to the MCAMLIS digital map materials. Chairman Bauer noted that the relationship between the Steering Committee and the private utilities concerning the copyright is, in effect, a private contract and that it is not clear whether or not the Utilities Subcommittee can relinquish the copyright without unanimous concurrence of the utilities, which currently does not exist.

In response to a question from Mr. Shaw, Mr. Patterson stated that no distributions of MCAMLIS digital maps had been made to SBC for at least three years since there was no longer a contact person with SBC to receive the material. Attempts by both Mr. Meihnsner and Mr. Patterson to reestablish a contact have to date been unsuccessful.

A lengthy discussion ensued, the consensus of which was that a second meeting of the Utilities Subcommittee should be convened and that this should not be done until attempts to identify an appropriate SBC representative had been successful. It was further acknowledged that in the event that the Utilities Subcommittee was unanimous in its willingness to release the copyright, it would be necessary, as set forth in Mr. Meihnsner's memorandum, for the Steering Committee to determine if it would accept the relinquishment of the copyright from the utilities to the Steering Committee thereby keeping the current license agreements and practices in place; or to pass the copyright on to the County, as the County's representatives had suggested at the Utilities Subcommittee meeting, in which case the County would need to adopt its own set of distribution guidelines and practices.

There being no further questions or comments on the report, it was the consensus of the Committee that the report be placed on file via the minutes of the meeting (a copy of this report is attached to these minutes.)

NEW BUSINESS

Consideration of Proposed Agreement to Initiate Phase 2 of the MCAMLIS Floodland Mapping Project

Chairman Bauer noted that all Steering Committee members had received a copy of an agreement proposed to be entered into between the MCAMLIS Steering Committee and the Regional Planning Commission to initiate Phase 2 of the MCAMLIS floodland mapping project. Chairman Bauer recalled that the Steering Committee had, at its meeting held on November 24, 1998, authorized the preparation by the Regional Planning Commission of large scale flood hazard maps along identified stream reaches within Milwaukee County. This action had been taken in response to a request by the Milwaukee County Department of Emergency Government. He indicated that the project was envisioned as being conducted in two phases. The first phase, which covered an identified list of stream reaches in the Kinnickinnic River, Menomonee River, Milwaukee River, and Oak Creek watersheds; the Legend Creek and West Branch of Crayfish Creek portions of the Root River watershed; and the Fish Creek portion of the Lake Michigan Direct Drainage Area; was to have had an initial completion date of June 30, 2002. The agreement covering the Phase 1 work was approved by the Steering Committee at its meeting held on

July 13, 2000. The Steering Committee had subsequently extended the completion date of the Phase 1 work to June 30, 2003, at its meeting held on June 25, 2002.

Chairman Bauer stated that the Commission staff was now ready to initiate the second and final phase of the project which was to complete the flood hazard mapping along the remaining stream reaches within the Root River Watershed and for the Lake Michigan Coastal Flooding Area of the Lake Michigan Direct Drainage Area. He noted that the Steering Committee had, at its meeting held on July 10, 2001, approved an agreement governing the conduct of the Phase 2 work, but had then, at its meeting held on January 24, 2002, rescinded that approval pending approval by the Wisconsin Department of Natural Resources of the use of continuous simulation modeling in the hydrologic hazard area delineation. He noted that the proposed agreement specified the cost of the Phase 2 work at \$494,000, and specified a completion date of December 31, 2006. This total cost is to be shared by the Milwaukee Metropolitan Sewerage District and MCAMLIS; the former providing \$58,000 and the latter, \$436,000. Over a three year calendar period—2004, 2005, and 2006—MCAMLIS is to provide \$145,300; \$145,300; and \$145,400, respectively. The MCAMLIS funding would be provided in accordance with the Strategic Assessment or plan approved by the Steering Committee at its meeting held on June 10, 2003. He noted that formal action by the Committee was required on this agenda item.

Ms. Olson noted that the original reason for postponing the initiation of Phase 2 of the floodland mapping program was that approval had yet to be secured from the Department of Natural Resources (DNR) on the use of continuous simulation modeling, noting further that on the basis of the report given earlier in the meeting, this approval had still not been secured and she questioned why this agreement was being brought before the Steering Committee again with this approval still lacking. Chairman Bauer responded that since that time, the use of continuous simulation modeling has been approved by the Federal Emergency Management Agency (FEMA) for the work, that the DNR had approved the use of continuous simulation modeling for flood hazard mapping by the Commission in the Des Plaines River watershed, and noted that if Phase 2 of the project was not initiated shortly, it would push the completion date for Phase 2 further into the future. He noted further that the DNR has been made aware on several occasions of the importance of a timely decision in this regard because continuous simulation modeling is also used by the Milwaukee Metropolitan Sewerage District (MMSD) for its flood control construction projects.

Ms. Olson asked if the Regional Planning Commission staff was confident that the DNR will not object to moving ahead with the Phase 2 work pending final resolution of this question. Chairman Bauer responded that while the outcome of an issue such as this can never be certain, the Commission staff is reasonably confident that the DNR will eventually approve the use of continuous simulation modeling once DNR staff understand the technique.

Mr. High questioned the funding being supplied by the MMSD and further questioned the rationale for their involvement in the project. Mr. Patterson responded that the MMSD had previously contributed to the funding for the Phase 1 work, noting that there are certain reaches of streams for which MMSD has floodland management jurisdiction, and responsibility for management of those stream reaches. He noted further that planning work carried out for the District by the Regional Planning Commission had recommended mitigating action such as channeling, removal of structures, and the construction of upstream storage capacity, which were now being implemented by the MMSD as part of its management responsibility.

Mr. Shaw asked if there were any requirements for the Steering Committee to undertake this work. Mr. Patterson responded that the commitment for this work was made to the Milwaukee County Department of Emergency Government. He noted further that the projects in Milwaukee County were integrated with projects in the upstream reaches of streams flowing into Milwaukee County. None of the work outside Milwaukee County is funded by MCAMLIS, but is funded instead by other agencies. This work, he noted, was going on simultaneously with the work in Milwaukee County.

A lengthy discussion ensued concerning the merits of proceeding with this project lacking the concurrence of the DNR concerning the use of continuous simulation modeling. At the conclusion of this discussion, on a motion by Mr. Lewandowski, seconded by Mr. LaFave, and carried unanimously, the project staff was instructed to direct a letter to the DNR Secretary expressing the Steering Committee's concern at the continued inability to resolve this issue. Specifically, the Steering Committee requested answers from the DNR on two major points: 1) Given that FEMA has approved the use of continuous simulation modeling, why has the DNR failed to make any decision on the propriety of this technique; and 2) Given the fact that the DNR has approved floodplain delineations derived through the use of continuous simulation modeling in other watersheds in Southeastern Wisconsin, why has the DNR withheld approval of the use of this technique in Milwaukee County.

[Secretary's Note: Copy of letter to Mr. Scott Hassett, Secretary, Wisconsin Department of Natural Resources attached to these minutes.]

Mr. Shaw and Mr. Lewandowski inquired about the risks that might be involved in going ahead with the Phase 2 work if, indeed, the DNR would require the use of an alternative modeling technique. Chairman Bauer noted that the majority of the cost of these efforts was involved in the collection of the data needed for flood hazard delineation regardless of the type of modeling used. In answer to a question by Mr. Shaw, Chairman Bauer stated that he could not make a definitive statement about the proportion of the total cost of the floodland mapping project attributable to the necessary hydrologic modeling, and the amount, therefore, that would be at risk in the event that the DNR withheld approval of the use of continuous simulation modeling. He further stated that this information would be acquired and added to the minutes as a Secretary's Note.

[Secretary's Note: Evaluation of the detailed project budget indicated that approximately \$143,260, or about 29 percent, of the \$494,000 total proposed budget would be at risk in the event that the DNR withheld approval of the use of continuous simulation modeling for the Milwaukee County Floodland Mapping Program.]

There being no further questions or comments, on a motion by Mr. Bennett, seconded by Mr. High, and carried unanimously, the proposed agreement was approved (copy attached to these minutes) and the staff authorized to secure the necessary review of the Milwaukee County Corporation Counsel, Risk Manager, and Disadvantaged Business Director, and to complete the execution of the agreement between the Steering Committee and the Regional Planning Commission.

Consideration of Proposed Agreement Between the MCAMLIS Steering Committee and the Southeastern Wisconsin Regional Planning Commission Relative to the Provision of Milwaukee County Surveyor Services for Calendar Year 2004

Chairman Bauer noted that a proposed contract relating to the provision of Milwaukee County surveyor services for calendar year 2004 had been distributed to the Steering Committee for its review prior to the meeting (a copy of the proposed agreement attached to these minutes). Chairman Bauer then asked Mr. Patterson to review the agreement with the Committee.

Mr. Patterson reminded the Steering Committee that, in accordance with policy established by the Milwaukee County Board of Supervisors, the funds needed to contract with the Regional Planning Commission for Milwaukee County surveyor services were obtained from the MCAMLIS budget on an annual basis. Mr. Patterson noted that with respect to the proposed contract, the scope of work and general terms and conditions set forth in the agreement for calendar year 2004 were unchanged from previous agreements for this service. Mr. Patterson noted that the amount of the agreement--\$60,000--was the same as provided in calendar year 2003.

There being no further questions or comments, on a motion by Mr. Lewandowski, seconded by Mr. High, and carried unanimously, the proposed agreement was approved and the staff authorized to secure the necessary review of the Milwaukee County Corporation Council, Risk Manager, and Disadvantaged Business Enterprise Director, and to complete the execution of the agreement between the Steering Committee and the Regional Planning Commission.

Election of Steering Committee Officers for Calendar Year 2004

Chairman Bauer noted that the Committee should, in accordance with past practice, elect officers for calendar year 2004. He noted that the Committee would need to elect a Chairman, Vice Chairman, and if desired, would need to designate a Committee Secretary. He noted that the program management issues, including the continued existence of the Steering Committee, and the MCAMLIS project itself, were unresolved at this time in that the transfer of program management responsibilities to the County Department of Public Works had been requested, but that the timing or the scope of the transfers had not as yet determined by the cognizant County officials. He indicated that he had, therefore, as Chairman, following the practices initiated last year at the suggestion of Mr. Shaw, appointed Mr. Bennett as a Nominating Committee of one, with the request that Mr. Bennett bring his nominations for the positions of Chairman, Vice Chairman, and Secretary to the Committee for consideration at this meeting. He noted that Mr. Bennett's report was contained in a letter dated November 17, 2003, a copy of which had been provided to all members of the Committee for review at the beginning of the meeting. He asked that the Committee consider Mr. Bennett's nominations (copy of Mr. Bennett's letter attached to these minutes).

On a motion by Mr. Bennett, seconded by Mr. Lewandowski, and carried unanimously, Mr. Bauer was elected Chairman and Mr. LaFave was elected Vice Chairman. Chairman Bauer noted that in accordance with past practice, the staff of the Regional Planning Commission would continue to serve as Steering Committee Secretary as part of its project management responsibilities.

CORRESPONDENCE

Chairman Bauer noted that there was no correspondence to be brought before the Committee.

DATE, TIME, AND PLACE OF NEXT MEETING

Chairman Bauer then asked the Committee to consider the date, time, and place of the next Committee meeting. After some brief discussion, it was determined that the next meeting of the Steering Committee should be held on March 30, 2004, at 9:00 a.m., in Room 203P of the Courthouse.

Mr. Bennett asked that the agenda for the March 30, 2004, meeting include a discussion item to establish some guidelines for Milwaukee County communities and their use of MCAMLIS digital mapping materials in establishing municipal websites. He noted that the City of Franklin had recently established a website and he wanted to be sure that the manner in which the City was using the MCAMLIS digital mapping materials did not violate any of the guidelines established by the MCAMLIS Steering Committee for such use. He further stated his belief that such a discussion would prove useful to other municipalities as they made plans to use the MCAMLIS digital mapping materials in implementing their own websites.

ADJOURNMENT

There being no further business to come before the Steering Committee, on a motion by Mr. LaFave, seconded by Mr. High, and carried unanimously, the meeting was adjourned at 11:20 a.m.

Respectfully submitted,

Thomas D. Patterson
MCAMLIS Project Manager

**Wisconsin Land Information Program
Grants-In-Aid to Local Governmental Units**

Year 2004*-Cycle Grant Application
Pursuant to Chapter Adm 47, Wisconsin Administrative Code

Grant Applications Accepted:
November 1, 2003 - January 30, 2004

Mail Your Application, Including Required Signature To:

Georgia Hopf
Grants Specialist
Division of Intergovernmental Relations
Wisconsin Department of Administration
P.O. Box 8944
Madison, WI 53708-8944

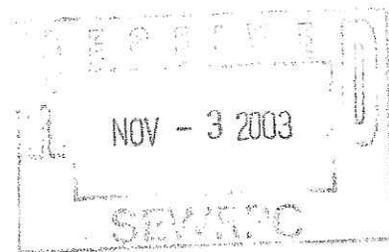
AND

E-mail Your Application To: georgianna.hopf@doa.state.wi.us

**If you have questions about anything contained in this application packet, please
email or call Georgianna Hopf at 608/267.2722.**

*Because the Land Information Board awarded fiscal year 2003-collected grant funds along with the year 2002 cycle, we refer to the current cycle as the **2004** cycle grants.

County	Fiscal Year 2003 Revenue			Grants		Total Grant Awards
	County Contributions	County Contributions Shown As %	County-Retained Fees Minus Add'l \$1	Land Information Base Budget Awards (17 Counties)	Training and Education Awards	
	\$4,770,287			\$210,726	\$21,600	\$232,326
Adams	\$21,604	0.45%	\$43,208	\$0	\$300	\$300
Ashland	\$11,954	0.25%	\$23,908	\$11,092	\$300	\$11,392
Barron	\$37,536	0.79%	\$75,072	\$0	\$300	\$300
Bayfield	\$18,356	0.38%	\$36,712	\$0	\$300	\$300
Brown	\$240,644	5.04%	\$481,288	\$0	\$300	\$300
Buffalo	\$10,580	0.22%	\$21,160	\$13,840	\$300	\$14,140
Burnett	\$19,364	0.41%	\$38,728	\$0	\$300	\$300
Calumet	\$56,619	1.19%	\$113,237	\$0	\$300	\$300
Chippewa	\$47,514	1.00%	\$95,028	\$0	\$300	\$300
Clark	\$20,474	0.43%	\$40,948	\$0	\$300	\$300
Columbia	\$54,998	1.15%	\$109,996	\$0	\$300	\$300
Crawford	\$11,544	0.24%	\$23,088	\$11,912	\$300	\$12,212
Dane	\$476,696	9.99%	\$953,392	\$0	\$300	\$300
Dodge	\$68,466	1.44%	\$136,932	\$0	\$300	\$300
Door	\$37,285	0.78%	\$74,570	\$0	\$300	\$300
Douglas	\$30,588	0.64%	\$61,176	\$0	\$300	\$300
Dunn	\$33,212	0.70%	\$66,424	\$0	\$300	\$300
Eau Claire	\$74,150	1.55%	\$148,300	\$0	\$300	\$300
Florence	\$5,336	0.11%	\$10,672	\$24,328	\$300	\$24,628
Fond du Lac	\$80,486	1.69%	\$160,972	\$0	\$300	\$300
Forest	\$9,363	0.20%	\$18,726	\$16,274	\$300	\$16,574
Grant	\$28,632	0.60%	\$57,264	\$0	\$300	\$300
Green	\$34,156	0.72%	\$68,312	\$0	\$300	\$300
Green Lake	\$16,952	0.36%	\$33,904	\$1,096	\$300	\$1,396
Iowa	\$23,470	0.49%	\$46,940	\$0	\$300	\$300
Iron	\$6,924	0.15%	\$13,848	\$21,152	\$300	\$21,452
Jackson	\$13,726	0.29%	\$27,452	\$7,548	\$300	\$7,848
Jefferson	\$76,508	1.60%	\$153,016	\$0	\$300	\$300
Juneau	\$19,498	0.41%	\$38,996	\$0	\$300	\$300
Kenosha	\$124,494	2.61%	\$248,988	\$0	\$300	\$300
Kewaunee	\$19,602	0.41%	\$39,204	\$0	\$300	\$300
La Crosse	\$90,176	1.89%	\$180,352	\$0	\$300	\$300
Lafayette	\$11,704	0.25%	\$23,408	\$11,592	\$300	\$11,892
Langlade	\$16,888	0.35%	\$33,776	\$1,224	\$300	\$1,524
Lincoln	\$47,626	1.00%	\$95,252	\$0	\$300	\$300
Manitowoc	\$65,216	1.37%	\$130,432	\$0	\$300	\$300
Marathon	\$101,486	2.13%	\$202,972	\$0	\$300	\$300
Marinette	\$35,312	0.74%	\$70,624	\$0	\$300	\$300
Marquette	\$16,510	0.35%	\$33,020	\$1,980	\$300	\$2,280
Menominee	\$1,876	0.04%	\$3,752	\$31,248	\$300	\$31,548
Milwaukee	\$524,182	10.99%	\$1,048,364	\$0	\$300	\$300
Monroe	\$28,378	0.59%	\$56,756	\$0	\$300	\$300
Oconto	\$42,302	0.89%	\$84,604	\$0	\$300	\$300
Oneida	\$47,906	1.00%	\$95,812	\$0	\$300	\$300
Outagamie	\$162,266	3.40%	\$324,532	\$0	\$300	\$300
Ozaukee	\$93,118	1.95%	\$186,236	\$0	\$300	\$300
Pepin	\$5,558	0.12%	\$11,116	\$23,884	\$300	\$24,184
Pierce	\$34,940	0.73%	\$69,880	\$0	\$300	\$300
Polk	\$48,894	1.02%	\$97,788	\$0	\$300	\$300



**STATUS OF MCAMLIS MAPPING PROJECTS
BEING CARRIED OUT BY CITY OF MILWAUKEE STAFF**

The City of Milwaukee recompilation project is comprised of 40 U.S. Public Land Survey one-quarter section-based maps as delineated on the accompanying status map. These cadastral maps were compiled to fit the MCAMLIS survey control system utilizing original land records and associated descriptions and documents. This work has been carried out by the staff of the City of Milwaukee, Infrastructure Service Division, Central Drafting and Records Office. This project was completed November 30, 2001.

The City of Milwaukee cadastral map transformation project (Phase 1) consists of 93 U.S. Public Land Survey one-quarter-section-based existing City of Milwaukee maps that are being refit to the MCAMLIS survey control system utilizing computer algorithms. These 93 one-quarter section maps are delineated on an accompanying status map. This work is being carried out by the staff of the City of Milwaukee, Department of Administration, Information and Technology Management Division. All 93 of the map sheets have been accepted by SEWRPC staff as meeting the relevant specifications. The agreement governing this project calls for work to be completed by October, 2002. This project was completed February 25, 2003. On April 28, 2003 an addendum revised the project to include an additional 6 map sheets. This addendum calls for the work to be completed by December 31, 2003. This project was completed September 16, 2003.

The City of Milwaukee cadastral map transformation project (Phase 2) consists of 24 U.S. Public Land Survey one-quarter-section-based maps as delineated on an accompanying status map. All 24 of the map sheets have been accepted as being in compliance with the specifications in this project area. The agreement governing this project calls for work to be completed by June 2002. This project was completed February 14, 2002.

The City of Milwaukee cadastral map transformation project (Phase 3) also consists of 24 U.S. Public Land Survey one-quarter-section-based maps again as delineated on an accompanying status map. All 24 map sheets have been accepted as being in compliance with the specifications. The agreement governing this project calls for work to be completed by June 2002. This project was completed February 14, 2002.

The City of Milwaukee cadastral map transformation project (Phase 4) also consists of 24 U.S. Public Land Survey one-quarter-section-based maps again as delineated on an accompanying status map. All 24 map sheets have been accepted as being in compliance with the specifications. The agreement governing this project calls for work to be completed by December 2002. This project was completed February 15, 2003. On April 23, 2003 an addendum revised the project to include an additional 6 map sheets. This addendum calls for the work to be completed by June 30, 2003. This project was completed June 18, 2003.

The City of Milwaukee cadastral map transformation project (Phase 5) also consists of 24 U.S. Public Land Survey one-quarter-section-based maps again as delineated on an accompanying status map. The agreement governing this project calls for work to be completed by December 2002. This project was completed January 3, 2003. On April 25, 2003 an addendum revised the project to include an additional 6 map sheets. This addendum calls for the work to be completed by June 30, 2003. This project was completed June 27, 2003.

The City of Milwaukee cadastral map transformation project (Phase 6) consists of 26 U.S. Public Land

Survey one-quarter-section-based maps again as delineated on an accompanying status map. The agreement governing this project calls for work to be completed by December 2003. On April 30, 2003 an addendum revised the project to include an additional 6 map sheets. This addendum calls for the work to be completed by December 31, 2003. This project was completed September 16, 2003.

The City of Milwaukee cadastral map transformation project (Phase 7) consists of 24 U.S. Public Land Survey one-quarter-section-based maps again as delineated on an accompanying status map. As of June 24, 2003, 15 maps from this project area have been submitted to SEWRPC staff for review and accordingly, 15 maps sheets have been accepted as being in compliance with the specifications. The agreement governing this project calls for work to be completed by April 2004. As of October 30, 2003, 23 maps from this project area have been submitted to SEWRPC staff for review and accordingly, 15 maps sheets have been accepted as being in compliance with the specifications.

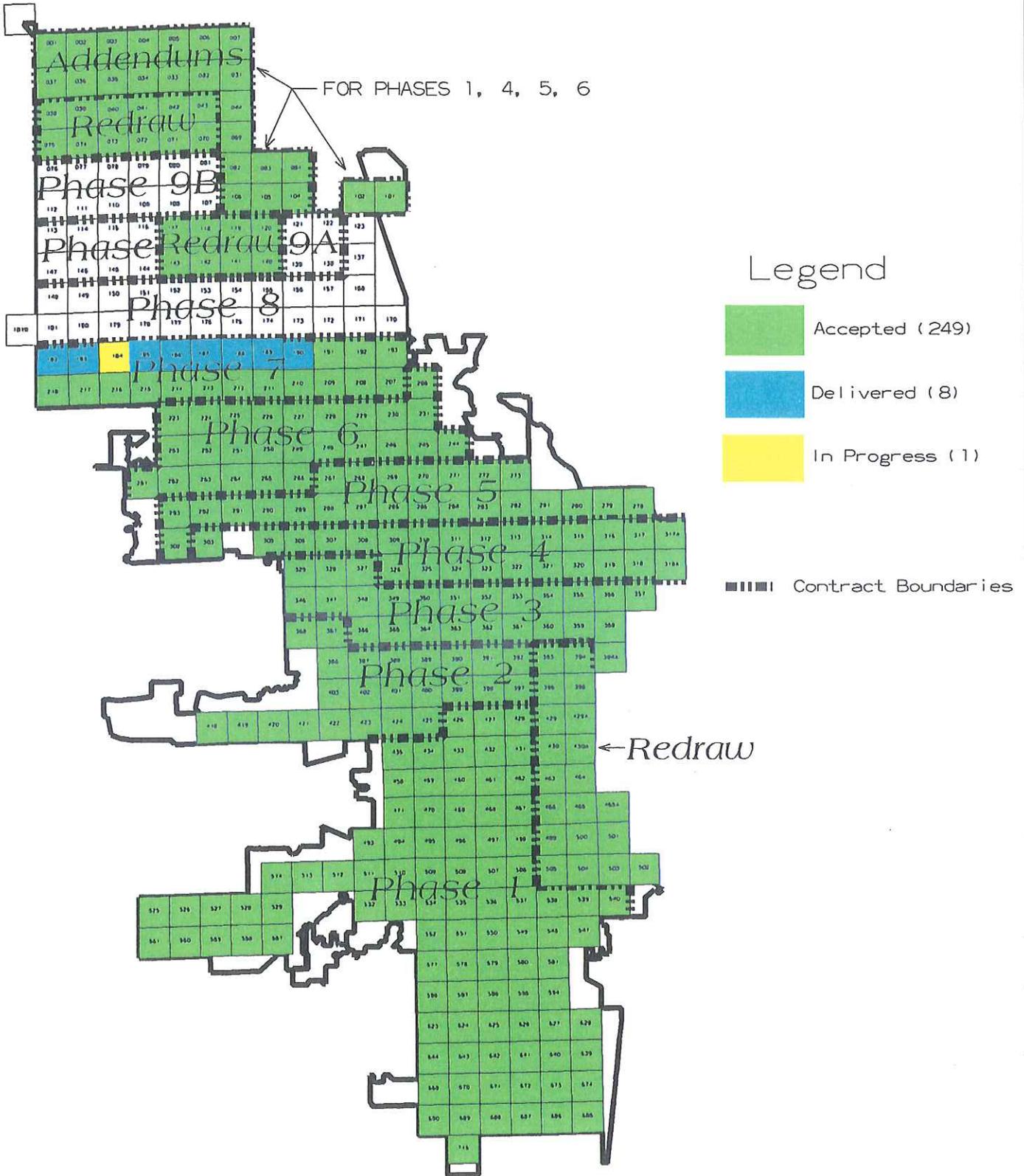
The City of Milwaukee cadastral map transformation project (Phase 8) consists of 25 U.S. Public Land Survey one-quarter-section-based maps again as delineated on an accompanying status map. As of June 24, 2003, 0 maps from this project area have been submitted to SEWRPC staff for review and accordingly, 0 maps sheets have been accepted as being in compliance with the specifications. The agreement governing this project calls for work to be completed by October 2004. There is currently no reason to expect that the project completion schedule will not be met.

The City of Milwaukee cadastral map transformation project (Phase 9A) consists of 12 U.S. Public Land Survey one-quarter-section-based maps again as delineated on an accompanying status map. As of June 24, 2003, 0 maps from this project area have been submitted to SEWRPC staff for review and accordingly, 0 maps sheets have been accepted as being in compliance with the specifications. The agreement governing this project calls for work to be completed by October 2004. There is currently no reason to expect that the project completion schedule will not be met.

The City of Milwaukee cadastral map transformation project (Phase 9B) consists of 12 U.S. Public Land Survey one-quarter-section-based maps again as delineated on an accompanying status map. As of June 24, 2003, 0 maps from this project area have been submitted to SEWRPC staff for review and accordingly, 0 maps sheets have been accepted as being in compliance with the specifications. The agreement governing this project calls for work to be completed by October 2004. There is currently no reason to expect that the project completion schedule will not be met.

* * *

MCAMLIS Transformation Project Progress Map



COPY

SOUTHEASTERN WISCONSIN REGIONAL PLANNING COMMISSION

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

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August 18, 2003

Mr. John LaFave
Register of Deeds
Milwaukee County Courthouse
901 North 9th Street
Milwaukee, WI 53233

Dear Mr. LaFave:

Pursuant to the terms and conditions of the April 4, 2000, Agreement between your office and this Commission, as modified by the May 28, 2003, Amendment to the April 4, 2000, Agreement, we are providing to you herewith two CD-ROMs containing digital cadastral map files for a portion of the City of Milwaukee. As you already know, these digital cadastral maps have been created under the auspices of the Milwaukee County Automated Mapping and Land Information System (MCAMLIS) program and, as specified in the Amendment to the April 4, 2000, Agreement, are being turned over to your office to be maintained and updated on a continuous basis.

More specifically, these digital cadastral maps are for the following 290 U.S. Public Land Survey System (USPLSS) one-quarter sections:

- the northeast one-quarter of Section 6, Township 5 North, Range 22 East;
- the following 21 USPLSS one-quarter sections in Township 6 North, Range 21 East;
 - the northeast and southeast one-quarters of Section 1;
 - the southeast one-quarter of Section 10;
 - the southwest and southeast one-quarters of Section 11;
 - the northeast, northwest, southwest, and southeast one-quarters of Section 12;
 - the northeast and northwest one-quarters of Section 13;
 - the northeast, northwest, southwest, and southeast one-quarters of Section 15;
 - the northeast, northwest, southwest, and southeast one-quarters of Section 16; and
 - the northeast and southeast one-quarters of Section 17;
- the following 75 USPLSS one-quarter sections in Township 6 North, Range 22 East;
 - the southwest one-quarter of Section 3;
 - the northeast, northwest, southwest, and southeast one-quarters of Section 4;
 - the northeast, northwest, southwest, and southeast one-quarters of Section 5;
 - the northeast, northwest, southwest, and southeast one-quarters of Section 6;
 - the northeast, northwest, southwest, and southeast one-quarters of Section 7;
 - the northeast, northwest, southwest, and southeast one-quarters of Section 8;
 - the northeast, northwest, southwest, and southeast one-quarters of Section 9;
 - the northwest, southwest, and southeast one-quarters of Section 10;
 - the northwest one-quarter of Section 15;

the northeast, northwest, southwest, and southeast one-quarters of Section 16;
the northeast, northwest, southwest, and southeast one-quarters of Section 17;
the northeast, northwest, southwest, and southeast one-quarters of Section 18;
the northeast, northwest, southwest, and southeast one-quarters of Section 19;
the northeast, northwest, southwest, and southeast one-quarters of Section 20;
the northwest and southwest one-quarters of Section 21;
the northeast, northwest, southwest, and southeast one-quarters of Section 28;
the northeast, northwest, southwest, and southeast one-quarters of Section 29;
the northeast, northwest, southwest, and southeast one-quarters of Section 30;
the northeast, northwest, southwest, and southeast one-quarters of Section 31;
the northeast, northwest, southwest, and southeast one-quarters of Section 32; and
the northeast, northwest, southwest, and southeast one-quarters of Section 33;

- the following 66 USPLSS one-quarter sections in Township 7 North, Range 21 East;
the northeast, northwest, southwest, and southeast one-quarters of Section 1;
the northeast, northwest, southwest, and southeast one-quarters of Section 2;
the northeast, northwest, southwest, and southeast one-quarters of Section 3;
the northeast, northwest, southwest, and southeast one-quarters of Section 4;
the northeast one-quarter of section 8;
the northeast, northwest, southwest, and southeast one-quarters of Section 9;
the northeast, northwest, southwest, and southeast one-quarters of Section 10;
the northeast, northwest, southwest, and southeast one-quarters of Section 11;
the northeast, northwest, southwest, and southeast one-quarters of Section 12;
the northeast, northwest, southwest, and southeast one-quarters of Section 13;
the northeast, northwest, southwest, and southeast one-quarters of Section 14;
the northeast one-quarter of Section 15;
the northeast and northwest one-quarters of Section 16;
the northeast, northwest, southwest, and southeast one-quarters of Section 23;
the northeast, northwest, southwest, and southeast one-quarters of Section 24;
the northeast, northwest, southwest, and southeast one-quarters of Section 25;
the northeast and southeast one-quarters of Section 26;
the northeast one-quarter of Section 33;
the northeast and northwest one-quarters of Section 34;
the northeast and northwest one-quarters of Section 35; and
the northeast, northwest, and southeast one-quarters of Section 36;
- the following 74 USPLSS one-quarter sections in Township 7 North, Range 22 East;
the northwest, southwest, and southeast one-quarters of Section 6;
the northeast, northwest, southwest, and southeast one-quarters of Section 7;
the northeast, northwest, southwest, and southeast one-quarters of Section 8;
the southwest and southeast one-quarters of Section 9;
the southwest and southeast one-quarters of Section 10;
the southwest one-quarter of Section 11;
the northwest and southwest one-quarters of Section 14;
the northeast, northwest, southwest, and southeast one-quarters of Section 15;
the northeast, northwest, southwest, and southeast one-quarters of Section 16;

- the northeast, northwest, southwest, and southeast one-quarters of Section 17;
 - the northeast, northwest, southwest, and southeast one-quarters of Section 18;
 - the northeast, northwest, southwest, and southeast one-quarters of Section 19;
 - the northeast, northwest, southwest, and southeast one-quarters of Section 20;
 - the northeast, northwest, southwest, and southeast one-quarters of Section 21
 - the northeast, northwest, and southwest one-quarters of Section 22;
 - the northwest one-quarter of Section 27;
 - the northeast, northwest, southwest, and southeast one-quarters of Section 28;
 - the northeast, northwest, southwest, and southeast one-quarters of Section 29;
 - the northeast, northwest, southwest, and southeast one-quarters of Section 30;
 - the northeast, northwest, southwest, and southeast one-quarters of Section 31;
 - the northeast, northwest, southwest, and southeast one-quarters of Section 32; and
 - the northeast, northwest, southwest, and southeast one-quarters of Section 33;
- the following 52 USPLSS one-quarter sections in Township 8 North, Range 21 East;
 - the northwest and southwest one-quarters of Section 3;
 - the northeast, southwest, and southeast one-quarters of Section 4;
 - the northwest and southwest one-quarters of Section 6;
 - the northeast, northwest, southwest, and southeast one-quarters of Section 7;
 - the northeast, northwest, southwest, and southeast one-quarters of Section 8;
 - the northeast, northwest, southwest, and southeast one-quarters of Section 9;
 - the northwest and southwest one-quarters of Section 10;
 - the southwest and southeast one-quarters of Section 13;
 - the northwest and southwest one-quarters of Section 14;
 - the northeast, northwest, southwest, and southeast one-quarters of Section 15;
 - the northeast, northwest, southwest, and southeast one-quarters of Section 21;
 - the northeast, northwest, southwest, and southeast one-quarters of Section 22;
 - the southwest and southeast one-quarters of Section 31;
 - the southwest and southeast one-quarters of Section 32;
 - the southwest and southeast one-quarters of Section 33;
 - the southwest and southeast one-quarters of Section 34;
 - the northeast, southwest, and southeast one-quarters of Section 35; and
 - the northeast, northwest, southwest, and southeast one-quarters of Section 36; and
 - the southwest one-quarter of Section 31, Township 8 North Range 22 East.

These digital map files were created in MicroStation DGN format by City of Milwaukee staff as part of a multi-year program intended to integrate the pre-existing City of Milwaukee digital maps into the MCAMLIS specifications and standards for digital cadastral maps. In order to accomplish this integration in a cost effective manner, several MCAMLIS digital file and map annotation specifications were waived. This results in these maps having a slightly different "look" from maps prepared to the full set of MCAMLIS specifications and standards, but in no way affects the maps' geometric or topologic integrity. We are enclosing a copy of the detailed specifications used in the preparation of these transformed City maps to assist you and your staff in identifying the design compromises that were agreed to as part of the transformation process. Following acceptance of these maps by Regional Planning Commission staff, they were converted from MicroStation DGN format to ESRI ArcInfo format. The ESRI ArcInfo format

Mr. John LaFave
August 18, 2003
Page 4

digital cadastral map files have been copied to the CD-ROMs being herewith provided in order to be consistent with the computer software utilized in the digital map maintenance procedure being carried out in your office.

The work needed to complete the digital cadastral mapping for the additional 65 USPLSS one-quarter sections in Township 8 North, Range 21 East is currently underway. These remaining digital cadastral maps will be completed between this date and December 31, 2004. We will send this mapping to you on a "work flow" basis as it is completed.

We trust that you will find the digital map files provided to be in order. Should you have any questions or concerns in this regard, however, please do not hesitate to write or call.

Sincerely,

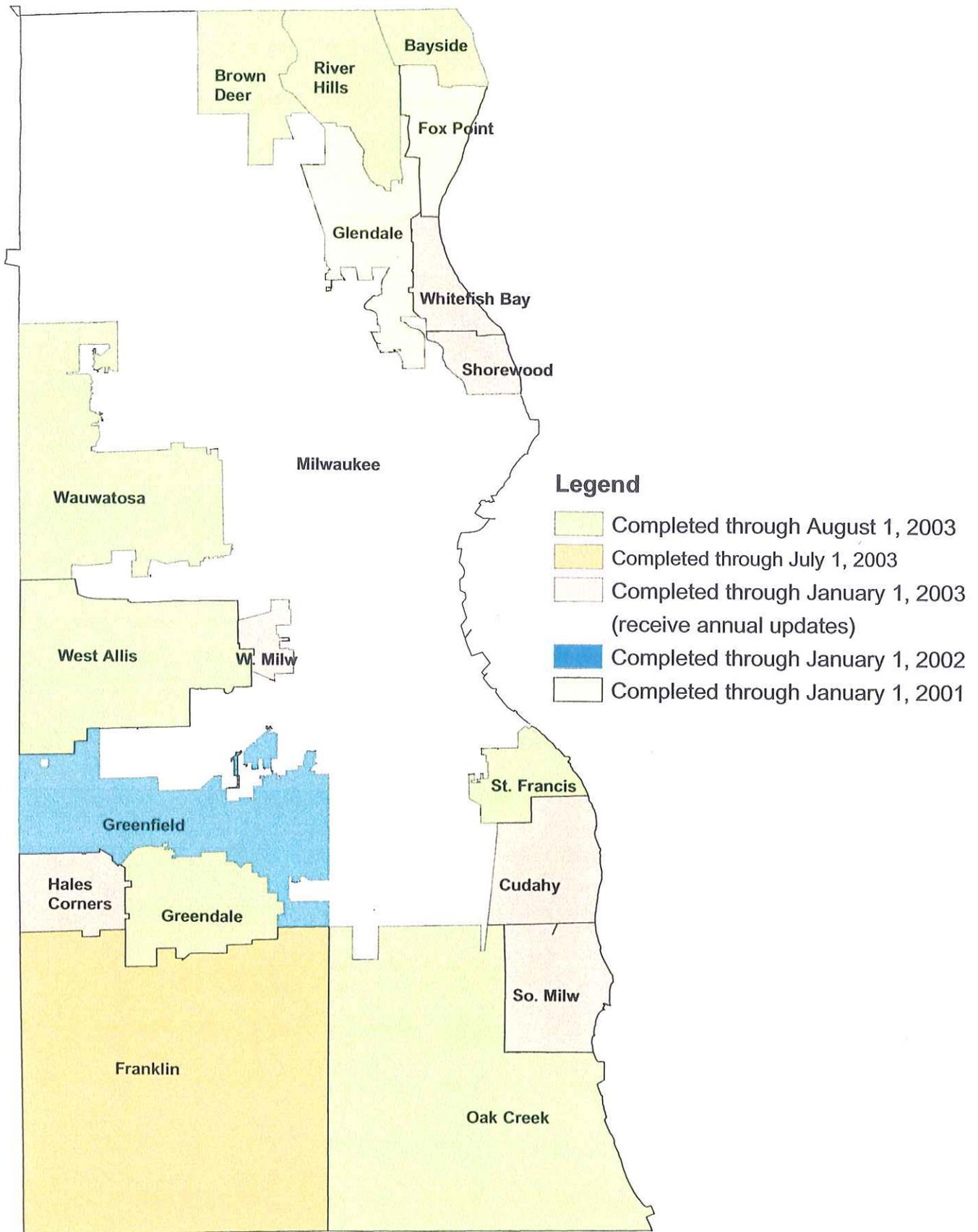
Philip C. Evenson
Executive Director

PCE/TDP/mlh
#85331 v1 - LaFave ltr-cd rom transmittal

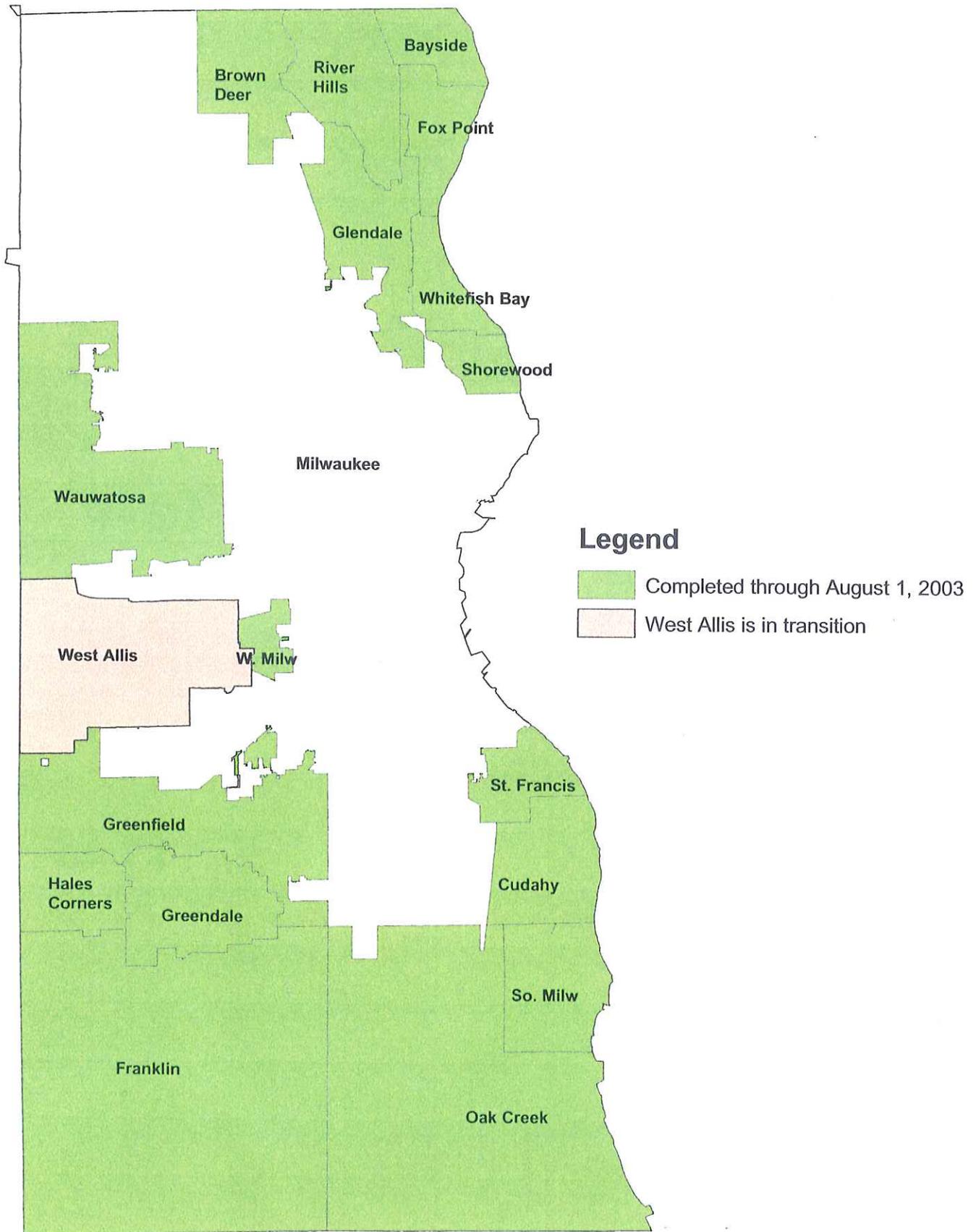
Enclosures

cc: Mr. Gregory High, Milwaukee County Department of Public Works
Mr. Thomas Lewandowski, Milwaukee County Department of Administrative Services
Mr. Kevin White, Milwaukee County Department of Public Works
Mr. Thomas D. Patterson, MCAMLIS Project Manager

Milwaukee County Address Status as of October 30, 2003



Milwaukee County Cadastral Status as of October 30, 2003



COPY

SOUTHEASTERN WISCONSIN REGIONAL PLANNING COMMISSION

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November 20, 2003

Mr. Jeffrey S. Polenske, P.E.
City Engineer
City of Milwaukee
Department of Public Works
841 N. Broadway, Room 701
Milwaukee, WI 53202

Dear Mr. Polenske:

We are providing herewith paper plots of preliminary 100-year recurrence interval floodplain and floodway delineations along Lincoln Creek as developed under the Milwaukee County floodland mapping program that the Commission is conducting for the Milwaukee County Automated Mapping and Land Information System Steering Committee (MCAMLIS) and the Milwaukee Metropolitan Sewerage District (MMSD). The delineations reflect as-built stream channel and overbank conditions for the recently-completed MMSD ecosystem restoration and flood control project.

The U.S. Environmental Protection Agency SWMM hydrologic model developed by MMSD for the design of the restoration and flood control project was used to develop 100-year recurrence interval flood flows. It is our understanding that the use of that model with rainfall depth-duration data from Midwest Climate Center Bulletin 71, "Rainfall Frequency Atlas of the Midwest," and the Huff storm distribution was approved by the Wisconsin Department of Natural Resources during their review prior to construction of the MMSD project. The 100-year water surface profile was computed using the U.S. Army Corps of Engineers HEC-RAS river analysis systems hydraulic model developed by MMSD for planned channel conditions and revised by the Commission staff to reflect as-built conditions. As-built conditions were determined using the record drawings that MMSD prepared for the project, large-scale topographic maps obtained by the MCAMLIS Steering Committee in April 2002 following substantial completion of the MMSD project, and hydraulic structure survey data collected by City survey crews. The assistance of the City staff in obtaining that field survey data is greatly appreciated.

Please review the enclosed maps and contact Mr. Michael G. Hahn of the Commission staff with any questions or comments. The maps are also being provided to MMSD by copy of this letter. Following review of the preliminary maps, we will incorporate any necessary changes and will assist the City in preparing submittals to WDNR and FEMA requesting their review and approval of the maps prior to City adoption for local zoning purposes and issuance of a FEMA Letter of Map Revision or Physical Map Revision.

Mr. Jeffrey S. Polenske
November 20, 2003
Page 2

We trust that the information provided will be useful to the City and we look forward to assisting you with this important project.

Sincerely,

Philip C. Evenson
Executive Director

PCE/MGH/pk
#88630 v1 - MCMALIS/MMSD LIN CR PRELIM FLPL MAP LETTER

Enclosures

cc: Mr. Kurt W. Bauer, MCAMLIS Steering Committee
Mr. Mariano A. Schifalacqua, City of Milwaukee
Mr. Timothy J. Thur, City of Milwaukee
Mr. Kevin L. Shafer, MMSD
Mr. Thomas W. Chapman, MMSD (with enclosures)
Ms. Debra L. Jensen, MMSD
Mr. Michael J. Bruch, Jr., WDNR-Southeast Region
Mr. Alan R. Lulloff, WDNR-Madison
Mr. Kenneth M. Hinterlong, FEMA Region V

bcc: Mr. Thomas D. Patterson

COPY

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December 11, 2003

Mr. William Wehrley, P.E.
City Engineer
City of Wauwatosa
7725 W. North Avenue
Wauwatosa, WI 53213-1777

Ms. Nancy L. Welch
Director of Community Development
City of Wauwatosa
7725 W. North Avenue
Wauwatosa, WI 53213-1777

Dear Mr. Wehrley and Ms. Welch:

We are providing herewith two sets of paper plots of preliminary 10-, 50-, 100-, and 500-year recurrence interval floodplain and floodway delineations along Underwood Creek in the City of Wauwatosa as developed under the Milwaukee County floodland mapping program that the Commission is conducting for the Milwaukee County Automated Mapping and Land Information System Steering Committee (MCAMLIS) and the Milwaukee Metropolitan Sewerage District (MMSD). The delineations reflect existing channel and planned land use conditions throughout the Underwood Creek subwatershed.

Please review the enclosed maps and contact Mr. Michael G. Hahn of the Commission staff with any questions or comments. The maps are also being provided to MMSD by copy of this letter. Floodplain maps for streams within the Underwood Creek subwatershed in the Cities of Brookfield and West Allis and the Village of Elm Grove have been provided to those communities. Following review of the preliminary maps by each community, we will incorporate any necessary changes. It is suggested that a single submittal for the streams in the subwatershed be prepared and sent to the Wisconsin Department of Natural Resources and the Federal Emergency Management Agency requesting their review and approval of the maps prior to adoption for local zoning purposes and issuance of updated FEMA maps. The Commission staff would assist the communities in coordinating their reviews and preparing that group submittal if there is agreement among all of the communities and we are requested to prepare the submittal.

We trust that the information provided will be useful to the City and we look forward to assisting you with this important project.

Sincerely,

Philip C. Evenson
Executive Director

PCE/MGH/pk
#89581 v1 - MCAMLIS/MMSD UND CR TOSA PRELIM FLPL MAP LETTER

Enclosures

cc: Mr. Thomas W. Chapman, MMSD (w/enclosures)
Mr. Michael J. Bruch, Jr., WDNR-Southeast Region
Mr. Alan R. Luloff, WDNR-Madison
Mr. Kenneth M. Hinterlong, FEMA Region V

bcc: Mr. Thomas D. Patterson

COPY

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December 11, 2003

Mr. Michael G. Lewis, P.E.
City Engineer
City of West Allis
7525 W. Greenfield Avenue
West Allis, WI 53214

Mr. John F. Stibal
Director of Development
City of West Allis
7525 W. Greenfield Avenue
West Allis, WI 53214

Dear Messrs. Lewis and Stibal:

We are providing herewith two sets of paper plots of preliminary 10-, 50-, 100-, and 500-year recurrence interval floodplain and floodway delineations along the South Branch of Underwood Creek in the City of West Allis as developed under the Milwaukee County floodland mapping program that the Commission is conducting for the Milwaukee County Automated Mapping and Land Information System Steering Committee (MCAMLIS) and the Milwaukee Metropolitan Sewerage District (MMSD). The delineations reflect existing channel and planned land use conditions throughout the Underwood Creek subwatershed.

Please review the enclosed maps and contact Mr. Michael G. Hahn of the Commission staff with any questions or comments. The maps are also being provided to MMSD by copy of this letter. Floodplain maps for streams within the Underwood Creek subwatershed in the Cities of Brookfield and Wauwatosa and the Village of Elm Grove have been provided to those communities. Following review of the preliminary maps by each community, we will incorporate any necessary changes. It is suggested that a single submittal for the streams in the subwatershed be prepared and sent to the Wisconsin Department of Natural Resources and the Federal Emergency Management Agency requesting their review and approval of the maps prior to adoption for local zoning purposes and issuance of updated FEMA maps. The Commission staff would assist the communities in coordinating their reviews and preparing that group submittal if there is agreement among all of the communities and we are requested to prepare the submittal.

We trust that the information provided will be useful to the City and we look forward to assisting you with this important project.

Sincerely,

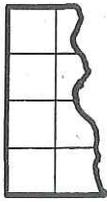
Philip C. Evenson
Executive Director

PCE/MGH/pk
#89580 v1 - MCMALIS/MMSD UND CR W ALLIS PRELIM FLPL MAP LETTER

Enclosures

cc: Mr. Thomas W. Chapman, MMSD (with enclosures)
Mr. Michael J. Bruch, Jr., WDNR-Southeast Region
Mr. Alan R. Lulloff, WDNR-Madison
Mr. Kenneth M. Hinterlong, FEMA Region V

bcc: Mr. Thomas D. Patterson



MILWAUKEE COUNTY
AUTOMATED MAPPING AND
LAND INFORMATION SYSTEM

c/o Southeastern Wisconsin
Regional Planning Commission
W239 N1812 Rockwood Drive
PO Box 1607
Waukesha, Wisconsin 53187-1607

November 26, 2003

Mr. Scott Hassett, Secretary
Wisconsin Department of Natural Resources
P.O. Box 7921
Madison, WI 53707-7921

Dear Mr. Hassett:

This letter is being written on behalf of the Milwaukee County Automated Land Information System (MCAMLIS) Steering Committee, a Committee comprised of representatives of Milwaukee County, the City of Milwaukee, the 18 suburban cities and villages in the County, the Milwaukee Metropolitan Sewerage District (MMSD), the Wisconsin Gas Company, the Wisconsin Electric Company, and SBC Ameritech. MCAMLIS was established in 1990 to create an automated digital mapping base for all of Milwaukee County. The creation of that mapping base and the development of a parcel-based automated land information system utilizing that base has been funded under a unique cooperative arrangement by the private utilities and public agencies represented on the Steering Committee.

MCAMLIS is currently working with the State of Wisconsin Land Information Board, MMSD, and the Southeastern Wisconsin Regional Planning Commission (SEWRPC) on a floodland mapping project that involves all of Milwaukee County. The floodland mapping was requested by the Milwaukee County Division of Emergency Management. It is the intent of the Steering Committee to make the data developed under the project available to all communities in the County. In turn, those communities would submit such data to your Department and the Federal Emergency Management Agency for review and approval prior to adoption of the data for local zoning and Federal flood insurance purposes.

The hydrologic analyses required for the floodland mapping effort are based on continuous simulation modeling. That methodology must be approved by your Department if the floodland mapping program is to meet its objectives.

On May 20, 2002, as part of the MCAMLIS floodplain mapping project, SEWRPC and the City of Oak Creek formally provided to your Department for review and approval a detailed submittal on the methods, procedures, and results of the floodplain mapping for the Oak Creek watershed. Similar materials were submitted on behalf of the City of Franklin for the Legend Creek subwatershed on December 22, 2001. In addition, SEWRPC has submitted two memoranda to your Department and FEMA—one in September 2002 for the Underwood Creek/Butler Ditch subwatersheds and one in April 2003 for the Menomonee River watershed—requesting review and approval of the continuous simulation modeling approach used in the floodland mapping effort. Timely review and approval of these submittals is essential if the floodland mapping project is to be completed on schedule and within budget. Delays in Department action are now jeopardizing the completion of this important intergovernmental mapping project.

With this background in mind, the Steering Committee has requested that the following questions be addressed to you:

Mr. Scott Hassett
November 26, 2003
Page 2

- Given that in 1998 the Department staff approved the continuous simulation hydrologic analyses performed by SEWRPC using the same models and methodology as that being used for the MCAMLIS program for the entire Des Plaines River watershed in Racine and Kenosha Counties, why has the Department withheld approvals for the use of continuous simulation hydrologic modeling in the MCAMLIS floodland mapping project?
- Given that FEMA has formally approved the use of continuous simulation modeling as applied in the Milwaukee area, why has the Department withheld approvals for the use of the methodology in the MCAMLIS floodland mapping project?

The process of accurately mapping the floodlands of Milwaukee County has been seriously delayed by the uncertainties attendant to the lack of timely review and approval by the Department of the continuous simulation modeling method. The MCAMLIS floodland mapping program has a budgeted cost of \$885,000. Under the assumption that Department approval would be forthcoming in a timely way, over \$300,000 of that total cost has been expended to date and the contribution of that expenditure to the successful completion of the MCAMLIS floodland mapping project depends upon Department action. In addition, the viability of major flood control projects recently designed and constructed by the MMSD with costs of over \$10 million has been placed into question by this delay.

Your response to the two questions posed herein and your assistance in resolving this important issue would be greatly appreciated. Thank you for your consideration.

Sincerely,

Kurt W. Bauer
Chairman, MCAMLIS Steering Committee
Milwaukee County Surveyor

KWB/wb

cc: Ms. Gloria L. McCutcheon, Regional Director, Wisconsin Department of Natural Resources

#89094 v1 - MCAMLIS DNR Letter

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MEMORANDUM

TO: MCAMLIS Steering Committee
FROM: SEWRPC Staff
DATE: October 31, 2003
**SUBJECT: STATUS REPORT NO. 8 ON MILWAUKEE COUNTY
FLOODLAND MAPPING PROJECT**

This memorandum sets forth the progress made on the Milwaukee County Floodland Mapping project from May 28, 2003 through October 31, 2003. This status report addresses project progress in the following three major areas and also identifies major issues that have arisen:

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

Overall, the Phase I portion of the project is about 70 percent completed. 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 May 28, 2003 through October 31, 2003, the following data acquisition activities were carried out:

- Work continued on coordination of the project work with the Milwaukee Metropolitan Sewerage District (MMSD), the Wisconsin Department of Natural Resources (WDNR), the Wisconsin Department of Transportation (WisDOT), and the City of Milwaukee. In general, where Phase I data have not been acquired, cooperative efforts are underway to obtain the data.
- Obtained from the City of Milwaukee the hydraulic model and construction drawings for the first phase of the U.S. Environmental Protection Agency (USEPA) Superfund project along the Little Menomonee River from the Union Pacific Railroad located just downstream of W. Brown Deer Road to W. Bradley Road.
- Obtained from Milwaukee County construction drawings of an existing bicycle trail bridge along the Little Menomonee River.

- Obtained a HEC-RAS model for the proposed Dean Road, Regent Road, and N. Point Drive bridges over Indian Creek.
- Obtained from the MMSD the record drawings for the Ryan Road pump station in the Oak Creek watershed.
- Obtained from the MMSD record drawings for the Lincoln Creek environmental restoration and flood control project.

HYDROLOGIC AND HYDRAULIC MODELING

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

Milwaukee River Watershed

- Completed a detailed review of the MMSD Lincoln Creek hydraulic model developed for design of the Lincoln Creek environmental restoration and flood control project. Revised the model to reflect as-built conditions as determined from the MMSD record drawings, the new large-scale topographic maps obtained by the MCAMLIS Steering Committee, and bridge surveys made by the City of Milwaukee.
- Work continued on review and revision of the U. S. Army Corps of Engineers HEC-RAS hydraulic model and on the USEPA SWMM hydrologic model for Beaver Creek.

Menomonee River Watershed

- Continued a detailed review of the planned year 2020 land use, existing channel condition hydrologic model for the Menomonee River watershed. The base model used was developed under previous Regional Planning Commission studies and revised and updated under the MMSD Phase 1 and 2 watercourse system planning efforts.
- Reviewed preliminary FEMA comments on the proposed Menomonee River watershed hydrologic methodology as described in a detailed SEWRPC Staff Memorandum that was provided to FEMA and WDNR in April 2003.
- Completed computation of water surface profiles for the 10-, 50-, 100-, and 500-year floodplain boundaries and the 100-year floodway boundaries along Underwood Creek and the South Branch of Underwood Creek in the Cities of Wauwatosa and West Allis.
- Completed work on the 100-year flood hydraulic model for the Little Menomonee River, incorporating information from the first phase of the U.S. Environmental Protection Agency Superfund project to remediate contamination of sediment through realignment of the channel. That realignment has been essentially completed from the Union Pacific Railroad to W. Bradley Road.
- Began work on Grantosa and Honey Creeks.

Kinnickinnic River Watershed

- Began a detailed review of the USEPA HSPF model developed for the Kinnickinnic River watershed under Phase 1 of the MMSD watercourse system management plan.
- Began work on Edgerton Channel/Wilson Park Creek.

FLOODLAND MAP PREPARATION

- Substantially completed delineation and digitizing of the 10-, 50-, 100-, and 500-year floodplain boundaries and the 100-year floodway boundary along the main stem of the Milwaukee River.
- Completed delineation, and preliminary digitizing of the 10-, 50-, 100-, and 500-year floodplain boundaries and the 100-year floodway boundaries along Underwood Creek and the South Branch of Underwood Creek in the Cities of Wauwatosa and West Allis.
- Prepared preliminary automated delineation of the Lincoln Creek 100-year floodplain boundary using the HEC-GeoRAS model and the digital terrain model recently developed along the stream under the MCAMLIS large-scale topographic mapping program.

MAJOR PROJECT ISSUES AND CONSIDERATIONS

Hydrologic Modeling Procedure Approvals—It was reported in the sixth and seventh status reports, dated January 10, 2003, and May 29, 2003, that, as part of their review of the hydrologic study for the Pike River watershed in Kenosha and Racine Counties, Post, Buckley, Schuh & Jernigan (PBS&J), the Federal Emergency Management Agency's (FEMA) map coordination contractor, was developing a set of standards for acceptable continuous simulation modeling studies. The final FEMA report entitled "Pike River Watershed Hydrology and Continuous Simulation Modeling Review and Summary," was issued on August 14, 2003. As we had speculated in past status reports, the PBS&J review and the resulting FEMA report support the continuous simulation modeling procedures as practiced by the Commission and the MMSD. The Commission wrote to FEMA and WDNR indicating Commission acceptance of the findings of the report; the Commission staff intention to proceed with continuous simulation modeling under the MCAMLIS floodplain mapping project; and asking that WDNR provide review comments on the hydrology memoranda that were submitted in 2002 and 2003 as described below.

SEWRPC Staff Memoranda summarizing the proposed hydrologic modeling approach for the Milwaukee River main stem, the entire Underwood Creek subwatershed, and the Menomonee River watershed were submitted to WDNR and FEMA on July 24, 2002, September 16, 2002, and April 24, 2003, respectively. Favorable reviews of the modeling approaches for the Milwaukee River main stem and the Underwood Creek subwatershed have been obtained from FEMA. Issues raised by FEMA regarding the Menomonee River watershed will be clarified and addressed by the Commission staff in a response which will recognize the findings of the August 14, 2003, FEMA report on continuous simulation hydrology. To date, there has been no response from the WDNR on any of the three memoranda; however, the Commission staff is continuing with the hydraulic modeling and floodplain mapping for the streams.

* * *

Exhibit 1

STATUS OF MCAMLIS MILWAUKEE COUNTY FLOODLAND MAPPING PROJECT: OCTOBER 31, 2003

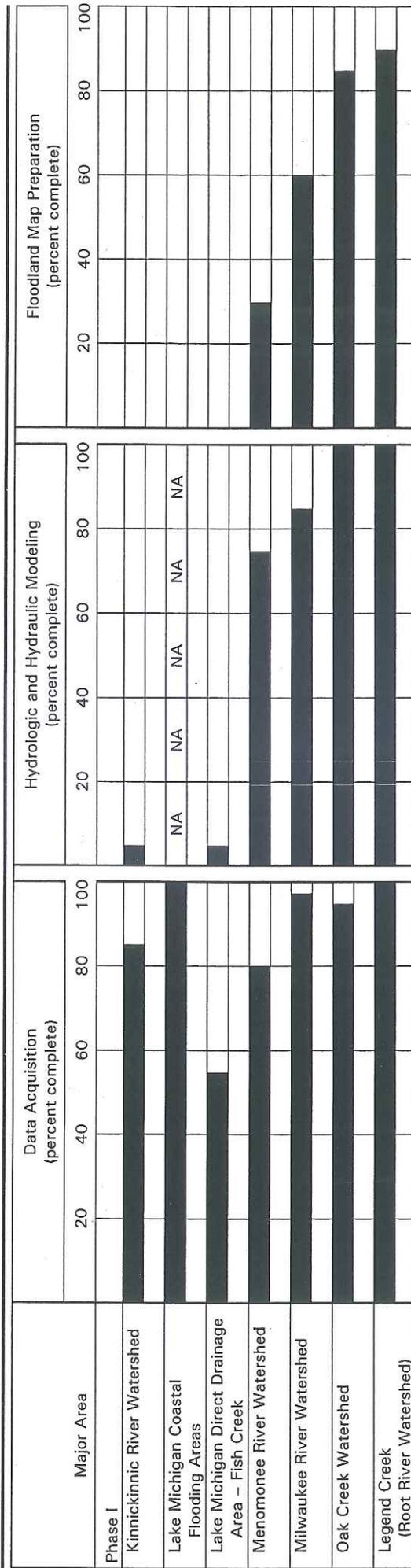
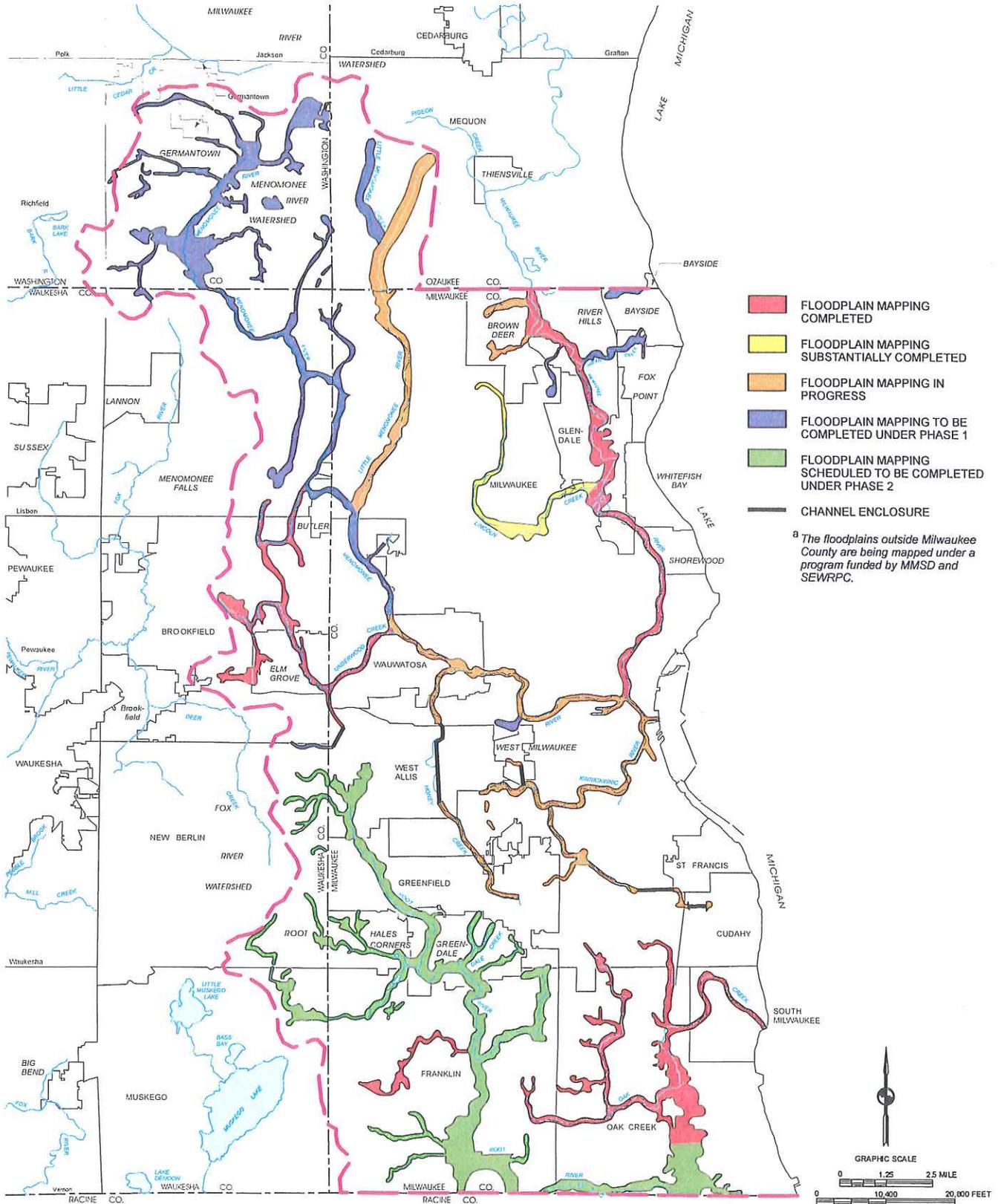


Exhibit 2

STATUS OF FLOODPLAIN MAPPING IN MILWAUKEE COUNTY AND IN MENOMONEE AND ROOT RIVER WATERSHEDS OUTSIDE MILWAUKEE COUNTY:^a OCTOBER 2003



Source: SEWRPC.

MEMORANDUM

TO: MCAMLIS Steering Committee

FROM: Milwaukee County Surveyor

DATE: November 15, 2003

SUBJECT: MILWAUKEE COUNTY SURVEYOR ACTIVITIES—2003

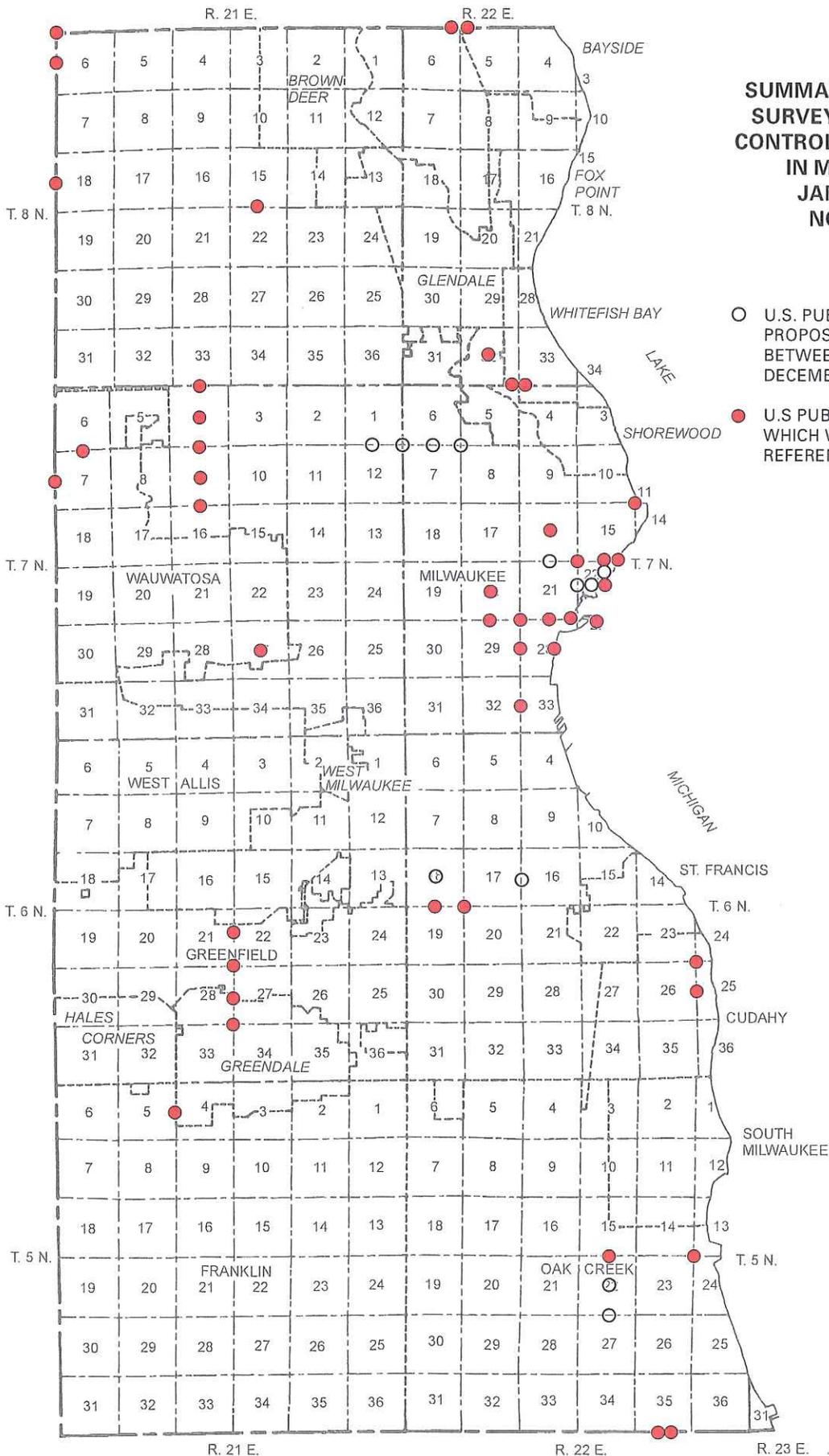
This memorandum is intended to provide the MCAMLIS Steering Committee with a report on the work of the Milwaukee County Surveyor through November 15, 2003. While the office and duties and functions of the County Surveyor are prescribed by Section 59.45 of the *Wisconsin Statutes*, in Milwaukee County the necessary work, pursuant to the direction of the County Board, is funded by document recording fees retained by the County pursuant to Section 59.43(2) of the *Wisconsin Statutes*. Since the MCAMLIS Steering Committee is charged by contract between Milwaukee County and the public and private utilities operating within the County with administering these retained recording fees, a report to the Committee on the activities of the County Surveyor is in order.

Within Milwaukee County, the U.S. Public Land Survey System has been combined with the State Plane Coordinate system and the National Geodetic Vertical Control System to provide the high order horizontal and vertical control survey network required for the preparation and maintenance of the MCAMLIS large-scale topographic and cadastral maps. Therefore, the work of the Milwaukee County Surveyor entails not only the maintenance of the U.S. Public Land Survey System as such, but also the maintenance of the MCAMLIS horizontal and vertical control survey network. As such, the work requires expertise in geodetic as well as plane surveying and in the legal aspects of property boundary determination.

Attached hereto as Exhibit A is a map of Milwaukee County on which are shown the location of all of the corners of the U.S. Public Land Survey System for which various types of perpetuation activities were undertaken during the year. These activities involved the replacement of section, quarter section, witness and meander corners which were reported as damaged, disturbed or destroyed by construction, or other activities or actions. The work involved the setting of new monuments, and, as necessary, the replacement of attendant witness marks and benchmarks. New records of U.S. Public Land Survey control station records—dossier sheets—were prepared for each corner concerned. A copy of a typical dossier sheet is also attached as Exhibit B. As indicated on Exhibit A, a total of 45 U.S. Public Land Survey corners were involved in the perpetuation activity from January 1, 2003, through November 15, 2003. Some additional corner perpetuation work may be expected to be done between November 16, 2003 and December 31, 2003. In some cases, the perpetuation activity resulted in the determination of revised State Plane coordinate values for the corners and revised elevations for both the corners and the attendant benchmarks. In such cases, new control survey summary diagrams were prepared. A typical diagram is attached as Exhibit C.

Exhibit A

SUMMARY OF U.S. PUBLIC LAND SURVEY SYSTEM CORNER AND CONTROL SURVEY PERPETUATION IN MILWAUKEE COUNTY: JANUARY 1 THROUGH NOVEMBER 15, 2003



- U.S. PUBLIC LAND SURVEY CORNERS PROPOSED TO BE REMONUMENTED BETWEEN NOVEMBER 16, 2003 AND DECEMBER 31, 2003 (12)
- U.S. PUBLIC LAND SURVEY CORNERS WHICH WERE REMONUMENTED AND/OR REFERENCED IN 2003 (45)

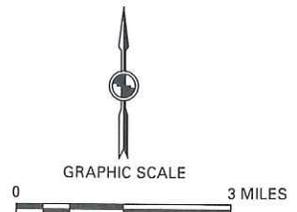


Exhibit B

RECORD OF U. S. PUBLIC LAND SURVEY CONTROL STATION

U. S. PUBLIC LAND SURVEY CORNER $\frac{12}{12}$ $\frac{7}{7}$ T 7 N, R 20/21 E, WAUKESHA/MILWAUKEE COUNTY, WISCONSIN

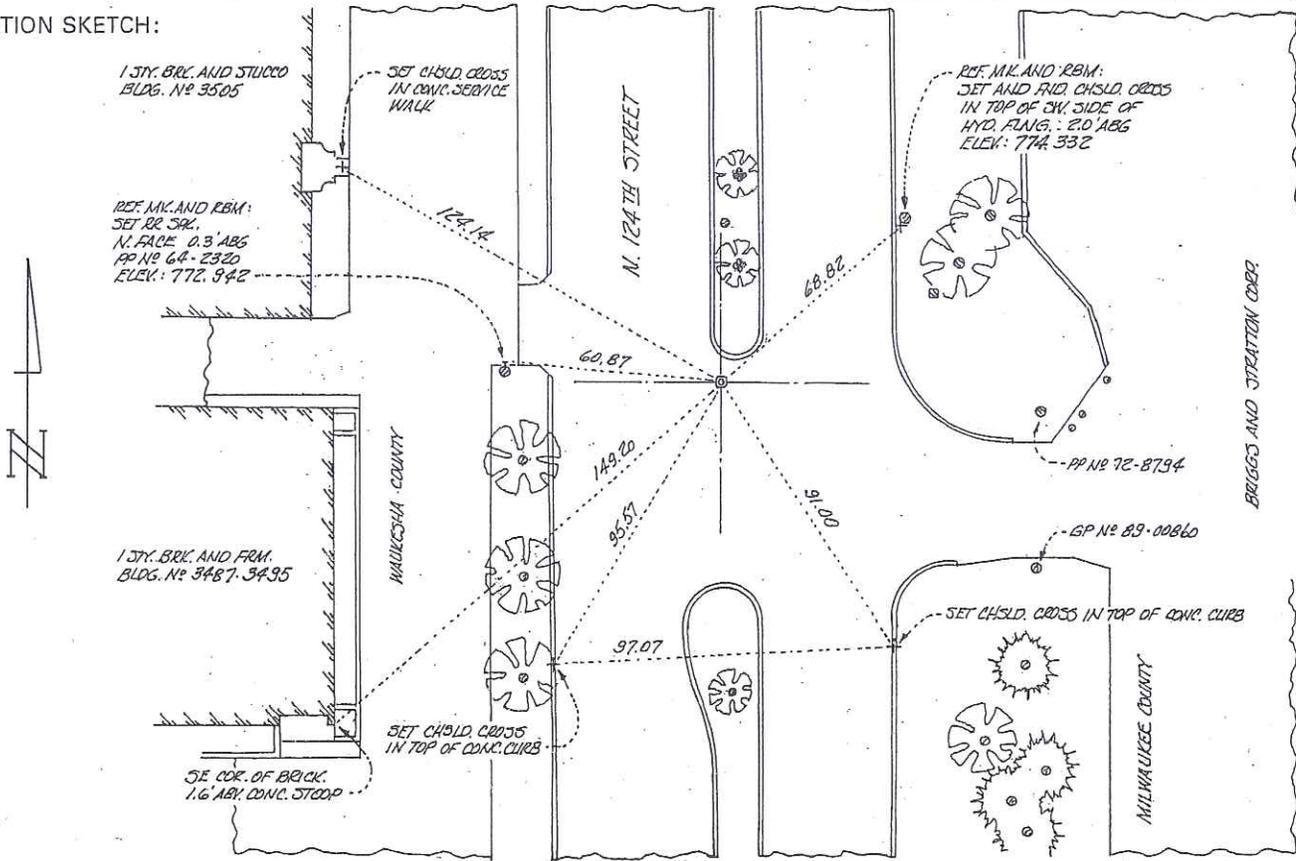
HORIZONTAL CONTROL SURVEY BY: AERO-METRIC, INC. YEAR: 1978
 VERTICAL CONTROL SURVEY BY: SEWRPC YEAR: 1998/2003

STATE PLANE COORDINATES OF: QUARTER SECTION CORNER
 NORTH 400,233.00
 EAST 2,516,545.47
 ELEVATION OF STATION: 772.703

HORIZONTAL DATUM: WISCONSIN STATE PLANE COORDINATE SYSTEM, SOUTH ZONE
 NORTH AMERICAN DATUM OF 1927

VERTICAL DATUM: NATIONAL GEODETIC VERTICAL DATUM OF 1929
 CONTROL ACCURACY: HORIZONTAL: THIRD ORDER, CLASS I VERTICAL: SECOND ORDER, CLASS II
 THETA ANGLE: +01-19-43

LOCATION SKETCH:



SURVEYOR'S AFFIDAVIT:
 STATE OF WISCONSIN)
MILWAUKEE COUNTY) SS

As County Surveyor for Milwaukee and Waukesha Counties, I hereby certify that I set a concrete monument with SEWRPC brass cap to mark this corner following street reconstruction; replacing a brass plug set in the concrete pavement as found and referenced by me in July 1986, said plug having been set to mark this corner in September 1969 by the City Engineer of the City of Wauwatosa, following street reconstruction; replacing a railroad spike set in the bituminous pavement then marking this corner, said spike known to have been used in land surveys dating back to at least 1960; that, during excavation to set the concrete monument referenced herein, an old, subsurface, 1.6 feet long, cut limestone monument with cross was found under the location of the brass plug; said limestone monument having been found as marking this corner in December 1947 by the firm of H.C. Webster & Son; and said limestone monument having been set to mark this corner in November 1877 by William S. Trowbridge, Surveyor, in the conduct of the remonumentation of the U.S. Public Land Survey system in the Town of Wauwatosa; replacing in turn a wood post set to mark this corner in 1836 by John Mullett, Deputy United States Surveyor, in the conduct of the original United States Public Land Survey; that I referenced the same as shown hereon; and that this record is

DATE OF SURVEY: 15 October 2003

Kurt Bauer
 REGISTERED LAND SURVEYOR



S - 157

Memorandum

To: MCAMLIS Steering Committee

From: Milwaukee County Department of Public Works

Date: November 3, 2003

Subject: **Status Report on the GIS Needs Assessment and Database Specification for Cadastral and Streets/Street Address Databases Project**

This memorandum is a project status report for the Milwaukee County Database Needs Assessment project that was approved at the July 15th, 2003 meeting. Since that meeting, the Department of Public Works has made progress in the following areas:

Request for Proposals

In July-August 2003, a project scope of work was defined and the request of proposals was prepared (attachment 1). After a review by County and MCAMLIS project Staff, the RFP was issued on August 15th. By the September 5th proposal due date 5 firms had responded:

Dakota Intertek
GeoAnalytics Inc.
Patrick Engineering
PlanGraphics Inc.
RA Smith and Associates

Consultant Selection

Milwaukee County Public Works used a quality based selection (QBS) process to evaluate potential consultants. The consultants were evaluated on firm experience and project approach (attachment 2). The selection panel was made up of County staff and MCAMLIS Committee members. Based on rankings of the selection committee (attachment 3), GeoAnalytics Inc. was selected as the most qualified firm.

Project Issues and Considerations

After selecting GeoAnalytics, the County DPW staff started negotiations over the proposed budget. Based on those initial discussions we have refined the scope of work

and have received an updated schedule and budget (attachment 4). A review of the refined scope will indicate that the scope in the RFP is being met. However, as the review panel based their decision on the quality of the RFP, the fee proposal was submitted separately and not reviewed in the selection process. During the initial negotiations, the County staff found that the level of resources proposed by the consultant appeared to be more than what, in the County's opinion, is required. The cost proposed was also significantly beyond what MCAMLIS Committee established for funding. While the County staff has subsequently negotiated a reduction in resource level and associated cost, the cost still exceeds the level approved by the MCAMLIS steering committee.

Recommendation

After further review, the consultant selection review panel believes that GeoAnalytics is the best qualified to perform the study of the scope and resource level now established through the negotiations with the consultant. Therefore, it is recommended that the MCAMLIS Steering Committee authorize additional funds in the amount of \$70,000 for this work. This increase when added to the original approved funds of \$40,000 will total \$110,000 and will be sufficient to accomplish the assessment project as defined.

GGH:GED:

Attachments: 1 thru 4

Cc: Consultant selection panel
Greg High, DPW
Tom Kenney, DPW



Milwaukee County

Department of Public Works

August 15, 2003

To All Interested Consultants,

Project: GIS Needs Assessment and Database Specifications for Cadastral and Streets/Street Address Databases

Project No.: 5081-03645

Subject: Request for Proposals

Milwaukee County Department of Public Works is seeking proposals from qualified consultants to perform a GIS needs assessment and create detailed specifications for the creation of a Cadastral and Streets/Street Address databases. Proposal must be submitted no later than 4:00 pm, September 5th, 2003

Section I - Project Background

In November of 1990, a cooperative agreement between Milwaukee County, Metropolitan Milwaukee Sewerage District, Wisconsin Bell Telephone Company (SBC), Wisconsin Electric Power Company and Wisconsin Gas Company (WE Energies) for the was established for the creation of a Milwaukee County Automated Mapping and Land Information System (MCAMLIS).

The MCAMLIS program work efforts have consisted of:

1. Location and remonumentation of all U.S. Public Land Survey Corners within the county including centers of sections.
2. The completion of high order horizontal and vertical control surveys to establish the State Plane Coordinates and elevations of the remonumented U.S. Public Land Survey Corners.
3. Completion of countywide large-scale topographic base mapping.
4. Completion of countywide large-scale cadastral parcel mapping.
5. Creation of street address/street centerline database.

These data products are currently maintained in ESRI ArcInfo coverage format and are tiled according to U.S. Public Land Survey Quarter Section. There are approximately 996-quarter sections in the county. The Milwaukee County Register of Deeds Office is responsible for the maintenance of the Cadastral and Street Centerline/Street Address components of the MCAMLIS database.

In June 2001, Plangraphics, Inc. completed a Milwaukee County Public Works and Parks GIS Conceptual Design and Implementation Plan for the Parks and Public Works Departments. The scope and purpose was to identify and quantify GIS applications required to access and utilize a centralized Geographic Information System. The study was to be used as a starting point for development of a countywide enterprise GIS program. The study recommended, among other things, that the county center its GIS deployment on a central Geodatabase for data storage and maintenance. It also recommended that future growth be extended to include county departments befitting the use of an enterprise GIS system.

Since the completion of that study, the Department of Public Works Geographic Information Systems (GIS) Section began implementation of a countywide enterprise GIS system built, like the MCAMLIS program, on Environmental Systems Research Institute, Inc (ESRI) technology. The GIS Section is currently utilizing ArcSDE 8.3 running on SQL Server 2000 as a platform for its centralized geographic data warehouse.

At the June meeting of the MCAMLIS Steering Committee, proposals were submitted for the reorganization of the MCAMLIS Digital Cadastral maps from quarter section format to a countywide continuous base map. To facilitate the maintenance of these products by the Register of Deeds Office and to ensure compatibility with the county's enterprise GIS initiative, these data products/maintenance functions need to be migrated to a geodatabase environment.

Section II - Project Description

The purpose of this assessment is to inventory the specific needs of targeted county departments as it relates to MCAMLIS Cadastral and Streets Centerline /Street Address databases. The end result of this analysis will be detailed specifications for the development of a Cadastral and Streets Centerline /Street Address databases and estimates on cost, maintenance requirements and time schedules for database

implementation and conversion of current MCAMLIS data into proposed database formats.

The work effort entails the following tasks:

1. Needs assessment of targeted departments. This will include interviews with county department staff and inventories of GIS data, functions, maintenance procedures and applications.
2. Detailed specifications for Cadastral and Streets Centerline /Street Address databases.
3. Feedback from Milwaukee County municipal GIS agencies on proposed designs and where possible design modifications to expand the usability of the products.
4. Final design specifications and estimates.

Section III - Scope of Service

PHASE 1 – County Needs Assessment

Task 1: Project Orientation and Management Meeting

Conduct a project kick-off meeting at the start of the assessment. The managers of the following Departments shall be invited:

County Executives Office
Economic Development/Real Estate
Inter Governmental Relations
County Board Staff
Office of the Register of Deeds
Sheriffs' Department
Office of the County Treasurer
District Attorney
Department of Aging
Housing and Community Development
Election Commission
Health and Human Services
Milwaukee County Transit

The objective of the meeting will be to explain the goals of the needs assessment and to cover project management issues including project schedule, meetings, interviews, scope refinement and other procedural issues.

Task 2: Data Gathering

Conduct detailed interviews with the above agencies managers and staff to:

- Determine functional responsibly.

- Identify the data they use to carry out their daily functions, and how that data is acquired and used.
- Identify current and potential future uses of GIS technology based on their business priorities.
- Review and identify GIS data and database requirements to allow for linkage to existing and future spatial databases.
- Based on interviews and inventories, create a departmental priority ranking to determine order of GIS implementation based on current/potential utilization of system.

Task 3: Cadastral and Street Centerline/Street Address Database Specifications

Upon completion of the data gathering and in consultation with county GIS staff detailed specifications for Cadastral and Street Centerline/Street Address databases will be created. These should include:

- Definition of entities and their attributes from source MCAMLIS cadastral coverages and streets/address data to proposed database entities.
- Relationships between entities too include topological relationships.
- Diagrams of the proposed Cadastral and Street Centerline/Street Address databases.
- Define relationships between Cadastral and Street Centerline/Street Address databases and other county departmental databases identified in the assessment.

PHASE 2 – Municipal Needs Assessment Review

Task 4: Municipal Review of draft database design

Upon completion of Phase 1, a series of municipal workshops will be held to get municipal GIS agencies input on the database design. The focus of these workshops will be:

- Common GIS data requirements.
- Usability of database designs.
- Methods of update for database layers.
- Potential for use of county data products in agencies business models.

Task 5: Modifications to database designs

Based on input from municipal GIS agencies and in consultation with county GIS staff, modifications to the database designs will be made.

Task 6: Final Needs Assessment and Cadastral and Street Centerline/Street Address database project completion meeting

Upon completion of Needs Assessment and Milwaukee County's final review of the draft Cadastral and Street Centerline/Street Address database assessment, the consultant shall present the findings to the county departments and selected municipal GIS agencies at a project completion meeting. In addition, the consultant will provide hardcopy and electronic versions of all work products.

Final Deliverables

- A. Document reporting the findings of the needs assessment.
- B. Detailed Database design specifications for Cadastral and Street Centerline/Street Address databases.
- C. Detailed estimates outlining costs, required work to be completed and time schedule needed for the implementation Cadastral and Street Centerline/Street Address databases.
- D. Detailed estimates outlining costs, required work to be completed and time schedule for the conversion of existing MCAMLIS data into the proposed Cadastral and Street Centerline/Street Address database.

Section IV - Project Schedule

August 15 th , 2003	Issue Request for Proposals
September 5 th , 2003	Proposal due
Week of September 8 th , 2003	Selection Committee shortlists or selects consultant
September 17 th , 2003	Selection Committee interviews consultants (If necessary)
September 19 th , 2003	Project award

Section V - Proposal Content

Each proposal shall contain a description or information in the following areas

- A. Cover: Include project number and title, proposal title (Proposal for Professional Services), Consultant's name, address, telephone number, FAX number, etc., proposal date, etc.
- B. Table of Contents: Include a clear identification of the material by section and by page number.
- C. Letter or Transmittal: Limited to two pages, briefly state the proposer's understanding of the service to be provided and a positive commitment to perform the services as defined in the RFP.

- D. Organization Description: A description of the organization submitting the proposal. Include the name, size, legal status (corporation, partnership, etc.), professional registration / certification, major type of activity or areas of consulting.
- E. Organization's Experience: We are looking for a Consultant that has proven experience in similar types of projects. Include a list of similar projects that the organization has participated on in the past five (5) years. Attach a separate sheet for each project, up to five (5) maximum, giving a brief description of each project and the organization's participation. Detail work experience with Milwaukee County Municipalities and if organization is ESRI Business Partner.
- F. Project Organization and Staff Experience: Include an organizational structure of the project team, including the relationship of the sub-consultants to be used for this project. The name of the Principal In Charge of this project, along with the name, occupation and title of the Project Manager who will be in charge of this project. Provide a resume' for each individual involved in the project, and include their name, title and/or duties for the project, professional registration, a brief description of related experience including time contribution in this capacity to past projects, and qualifications.
- G. Alternate Principle In Charge: Include the name of an Alternate Principle In Charge in the event that the originally declared Principal In Charge is not able to fulfill their duties. Milwaukee County DPW also reserves the option to select an Alternate Principal In Charge.
- H. Sub-Consultants: Indicate the names and addresses of any sub-consultants and/or associates proposed in this project. State the capacity they would be used in and the approximate percentage of the total services they would provide. Also state their past experience in the field.
- I. Project Approach: Provide a detailed description of your understanding of and approach to each part of the scope of services.
- J. Scheduling: Provide a bar chart form schedule which indicates a sequence, time table, and relationship of tasks which are necessary to complete the project, based on the schedule as noted in Section V - Project Schedule, of this RFP.
- K. Manpower Allocation: Provide a detailed breakdown (spreadsheet format) of the direct hours by task, position, and person to complete the project as described in this RFP.
- L. DBE Goals: 0%

- M. Equal Opportunity Employer: The Consultant must be an Equal Opportunity Employer. Proof of this must be indicated in that section of the Proposal.
- N. Fee Proposal: The fee for this project shall be clearly stated as a lump sum for basic services as detailed in this document. Progress payments for those services will be made as stated in the attached professional services agreement. Include a copy of Attachment B-1" of the attached professional services agreement in this part of the proposal to indicate the direct salary rates, fixed overhead rates, etc. for any additional services that may be required.

Section VI - Proposal Submission Requirements and Format

- A. Eight (8) copies of the proposal must be submitted no later than 4:00 pm, September 5th, 2003 to:

Milwaukee County Department of Public Works
Architectural and Engineering Division
City Campus, Room 523
2711 W. Wells street
Milwaukee, WI 53208
Attention: Gary E. Drent
Fiscal and Budgetary Manager
- B. Each envelope must be identified with the submission date, project number and title, and name and address of the submitting party. Envelopes which are not properly identified or received after the time and date as noted in Section VII - A, above will be rejected.
- C. Fee Proposal shall be placed in a separate sealed envelope.
- D. The issuance of a written addendum is the only official method through which interpretation, clarification or additional information will be given.
- E. Milwaukee County reserves the right to accept or reject any and all proposals.
- F. All materials submitted will not be returned.
- G. All questions regarding this RFP shall be directed to Gary Drent
Tele: (414)278-4836, FAX: (414) 223-1982, E-MAIL:
gdrent@milwcnty.com

Section VII - Proposal Evaluation

Proposals will be evaluated and ranked on the following criteria:

Proposal Content	45%
Consultant Experience	30%
Consultant Interviews	25%
<hr/> Total	<hr/> 100%

The evaluation team will be made up of three to five individuals with technical knowledge of the requirements and familiarity with the project. Depending on the number and quality of the submittals, Milwaukee County may decide to conduct interviews of a short-list of consultants. The interview will be based on project team, experience and qualifications, project understanding, and the overall presentation.

Sincerely,

Kevin White
GIS Supervisor

Attachments:

1. Milwaukee County Department of Public Works Type "D" Agreement for Studies, Analysis and Report.
2. Consultant Evaluation Form
3. Proposal Preparation, Submission & Evaluation Guidelines

Consultant Evaluation:

Scoring Scale:

1	2	3	4	5	6	7	8	9	10
[-----Poor-----]		[-----M Satisfactory-----]		[-----Good-----]		[-----Very Good-----]		[-----Excellent-----]	

Score: 1-2 Poor = Overall does not meet any expectations
 3-4 Marginally Satisfactory = meets a few expectations, but not all
 5-6 Good = Meets all expectations
 7-8 Very Good = Meets all expectations & exceeds a few
 9-10 Excellent = Meets all expectations & exceeds many

Description	Score (1 -10 scale)	Weight (multiply wt x score)	Total Score
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Proposal Content:

Technical Approach		30% or .30	
Team Members & Their Role		5% or .05	
Proposed Project Schedule		5% or .05	

Consultant Experience:

Prior Related Experience		20% or .20	
Experience with Milwaukee Municipal GIS Agencies		5% or .05	
ESRI Business Partner (either Yes/10 or No/0)		10% or .10	

Consultant Interview: (If necessary)

Responses to Technical Issues		15% or .15	
Responses to Non-Technical Issues		10% or .10	

TOTAL		100% or 1.00	
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Project: GIS Needs Assessment and Database Specifications for Cadastral and Streets/Street Address Databases
Project No.: 5081-03645

Reviewer	Consultant			
	GeoAnalytics	RA Smith	PlanGraphics	Dakota Intertek
Bill Shaw	52.95	37.80	54.50	22.40
Nancy Olson	50.95	56.20	49.75	6.60
Kevin White	52.15	52.90	41.65	27.25
Total Score	156.05	146.90	145.90	56.25

Proposal Fee Schedules (Not Evaluated)

Firm	Fee
Dakota Intertek	\$ 17,640
Geoanalytics	\$ 118,000
Patrick Engineering	\$ 91,000
Plangraphics	\$ 129,680
RA Smith	\$ 57,500



A revised Scope of Work and Cost Estimate for professional services

Submitted by

GeoAnalytics, Inc.

To

County of Milwaukee, Wisconsin

To provide

**Consulting Services for Performing a GIS Needs Assessment and Database Specifications for
Cadastral and Streets/Street Address Databases (Project Number 5081-03645)**

October 6, 2003

October 6, 2003

Milwaukee County Department of Public Works
Architectural and Engineering Division
City Campus, Room 523
2711 West Wells Street
Milwaukee, WI 53208
Attn: Gary E. Drent
Fiscal and Budgetary Manager

Dear Mr. Drent:

GeoAnalytics, Inc., (hereinafter "GeoAnalytics") is pleased to submit this revised Scope of Work and Cost Estimate to Milwaukee County, Wisconsin (hereinafter "the County") for consideration in providing services related to the project, entitled "*GIS Needs Assessment and Database Specifications for Cadastral and Streets/Street Address Databases (Project Number 5081-03645)*." This document includes a revised description of proposed project phases and tasks, project timeline, consultant man-hour allocation, and estimated costs. Proposed revisions are based on our on-site discussions with you and Kevin White, GIS Supervisor, dated September 30, 2003. Please note that all revised proposal content included in this document is highlighted in yellow.

GeoAnalytics remains excited about the prospect of assisting the County with this effort since we laud the vision and initiative expressed by the project. Our recent meetings with you reinforced this perception and interest. The County's direction in implementing an enterprise GIS system is truly consistent with our core business and recent experience assisting other local governments.

If you have any questions about our revised Scope of Work and Cost Estimate, please do not hesitate to contact me. I can be reached on my cell phone at 608-345-0192.

Thank you again for your consideration.

Respectfully,



Peter G. Thum
President, GeoAnalytics, Inc.

SCOPE OF SERVICE

The following is a detailed description of proposed project phases and tasks. The proposed scope requires significant County involvement to ensure success and that the County's expectations are met. GeoAnalytics will provide education, consultation, facilitation, and documentation during the project but encourages final decisions to be made by the County.

Phase 1: Situation Assessment and Conceptual System Design

Objectives

This leadoff phase combines the first two steps of our project methodology described earlier. It covers all of Tasks 1 and Task 2 identified in the RFP. The main focus will be to review and inventory existing conditions and needs related to the use and management of GIS/IS within the County departments. Select County departments and external agencies will be part of this assessment. Department involvement will be broken down into two groups: 1) Core participants; and 2) Secondary participants. Core participants will include current, critical land information producer/user departments within the County that will have a major stake in final Geodatabases. Subsequently, these departments will be the target of most assessment interviews and database design discussions/feedback. Core group departments will include:

- Office of the Register of Deeds
- Department of Public Works (including Parks)
- Sheriff's Department
- District Attorney
- Housing and Community Development (including Economic Dev./Real Estate)
- Health and Human Services

Secondary group project participants will also be engaged in project activities, but at a more general level (i.e., informational). This phase will gauge core group business needs and expectations for the implementation of proposed enterprise GIS databases (and more broadly an enterprise system) that employs the concept of a formal GIS data repository or warehouse to serve different departmental business solutions. Based on assessment findings, an analysis of major issues and opportunities will be completed and a revised enterprise GIS conceptual design produced that supports identified user expectations and business needs.

Besides core group interviews, the assessment will utilize background materials including the 2001 GIS Plan, other system planning and design reports, existing data dictionaries, and applications. It will also focus on the current operational environment and look specifically at the current state of GIS data within the County. The assessment will take inventory of all components of a GIS/IS system, including business functions and processes, data, technology, organizational arrangements, and applications.

Activities

This phase will involve a sequential set of steps that include background documents review, an initial kick-off meeting, interviews, findings analysis and documentation, and a conceptual system design.

Background Documents Review. The GeoAnalytics team will review all background documents.

Kick Off Workshop. The GeoAnalytics team will conduct a kick-off workshop to acquaint the County's project team participants (core group and select secondary group members) with the nature and scope of the project and to begin the consensus building process for planned enterprise GIS databases. The workshop will clarify project goals and objectives, establish participant roles and responsibilities, review the timeline for project completion and discuss participant expectations. Participants should include the core County Project Team and any required secondary project participants.

Interviews. Key staff from participating departments and agencies will be interviewed. Fact investigation will include a review of all existing business functions, information use conditions, and user expectations and needs for the GIS database development, access, maintenance, and use.

Findings Analysis and Documentation. Facts collected from the workshop and interviews will be summarized into two categories – issues and opportunities. Issues represent roadblocks or challenges to achieving project goals and objectives related to the County's vision. Opportunities entail prospects for improvement or enhancement. This analysis will clarify high-level data, technology, and organizational requirements and also identify potential benchmarks to be used for evaluating the success of a final enterprise data environment implementation.

Conceptual System Design. The GeoAnalytics team will also prepare a high level model of a proposed, future enterprise GIS data system for the County that best serves defined department and agency needs. This will be based on assessment results as well as still relevant concepts from the past County GIS Plan. The conceptual model will define business priorities and also articulate the enterprise scope of the proposed system within the context of important System Components including technology, (core architecture and key business systems), data (major databases and linkages), processes (data maintenance and use/access), and organization (organizational support arrangements). This conceptual system design will reaffirm the vision for the enterprise GIS system and provide a framework for more detailed data design specifications developed later in the project.

Assessment Report Development and Review. A final assessment report including updated conceptual, enterprise GIS system design will be developed and provided to County for review. Input from select external agency partners would also be obtained to build or reaffirm consensus for the future system.

Deliverables

Analysis and Documentation. The GeoAnalytics team will document the results of the situation assessment and provide a report to the County. See above description of documentation for more details.

Education/Facilitation. The GeoAnalytics team will seek to help foster education and awareness among County project participants and department staff of enterprise GIS concepts, benefits, and implementation opportunities. This will provide a context for the remainder of the project.

Elapsed Timeline

Approximately five weeks

Phase 2: Logical Database Design

Objectives

The second major phase of the project will build off of the Assessment Conceptual Design by developing detailed logical requirements for the proposed databases and associated GIS system components. The primary emphasis will be on developing logical data definitions including data entities, attributes, and relationships. However, it will be important at this stage to also detail out requirements for data maintenance processes/workflows and custodian responsibilities. Given this, logical data and data maintenance process models will be developed. This is especially the case since municipal partners are a targeted part of the future system and will have workflow dependencies with the County on data maintenance and use.

Once logical design specifications have been drafted they will be first reviewed and approved by County participants. This will be followed by a series of presentations to potential municipal partners to assess their common or additional requirements. This input will help clarify not only data content requirements but also workflow requirements.

Activities

Develop Draft Logical Design. Design documents will include:

- Entity Relation Diagram's (ERD) that identify all data entities, attributes and their required logical relationships. These diagrams will likely be composed using Microsoft Visio and structured to support later development of physical specifications.
- A draft data dictionary will be produced that describes each data theme in terms of ERD content - describing data entities and associated attributes.
- Data standards – emphasis on naming from County and other published standards and accuracy/quality requirements from functional requirements report.

Develop Draft Data Maintenance and Management Design. This will involve the development of process diagrams and descriptions for key data maintenance workflows including County and municipal linkages. A proposed organizational structure for GIS data management including governance and operational management roles and responsibilities will also be defined.

County Logical Design Meeting and Feedback. A second workshop will be conducted for key County personnel (i.e., Core Group County participants) to communicate the logical database and system design and to solicit feedback. Comments will be used to guide updates to design documents to ready them for municipal presentation/discussion.

Municipal Logical Design Workshops. Two to three municipal workshops could be conducted to obtain feedback on logical database and related GIS system requirements. This forum will also provide a venue to gain municipal buy-in to the broader, conceptual enterprise GIS design plans for the County. Feedback on all fronts will be used to guide changes to all earlier reports/documents.

Logical Design Wrap-up. A final logical design report including the documents described earlier will be produced and distributed to the County and other project team members.

Deliverables

Deliverables for this phase of the project will include:

Logical Design Report. A final logical design report including the documents described above.

System Strategy Consensus. Our team will seek to assist the County in building consensus for its overall enterprise GIS system strategy including data content, maintenance, and access objectives. This will include any updates to the Situation Assessment report developed under Phase 1 based on municipal workshop commentary.

Education/Facilitation. In general, we will seek to help foster education and awareness among County and municipal project participants and department staff of enterprise GIS concepts, benefits, and implementation opportunities. This will continue to provide a context for the remainder of the project.

Elapsed Timeline

Approximately 10 weeks (8 weeks if no municipal workshops)

Phase 3: Physical Database Design and Implementation Plan

Objectives

The third and final major phase of the project will build off of the Logical Design and outline more detailed physical specifications for targeted databases to guide later database setup and data migration. This phase of the project will be completed with the development of a physical, normalized design of the County GIS databases. We also offer as an option the development of a prototype version of the database based on test data provided by the County and select partner municipalities. This prototype testing will help validate the implementation realities of the physical design.

In case the County decides to go ahead with development of a prototype database, GeoAnalytics will set-up the database structure, collect, scrub and

populate the database with test data, and set-up suitable GIS clients using ArcGIS suite of technologies for demonstration. GeoAnalytics will also enumerate performance metrics to test the database design.

Physical database design specifications will specifically address:

- Geodatabase feature sets, types and classes
- Geodatabase relationship classes and topological enforcement rules
- Primary/foreign key fields and their relationships
- Validation rules and value domains
- Proposed underlying relational database schema(s) including table structures and field types/formats
- DBMS and other technical requirements specific to MS-SQL Server and ArcSDE
- OpenGIS Consortium (OGC) standards

Activities

Develop Draft Physical DB Design Specifications. The design document will include:

- Physical specifications for each planned physical GIS database to support Geodatabase/ArcSDE schema generation and prototyping in MS SQL Server. This will take the form of more advanced Visio physical design files accompanied by supporting MS Word documentation.
- Data standards – emphasis will be on table and field names, field types and widths, value domains, and business rules for maintenance for Geodatabases support. County, ESRI Urban Geodatabase model and OGC standards will be considered for these design specifications.

Develop Prototype Database (optional). The GeoAnalytics team strongly recommends a prototyping activity to ensure the validity of physical design specifications. If approved, GeoAnalytics will set up an instance of the enterprise database, collect and populate it with test data, and set up sample clients to access the data. Once the prototyping has been completed, the physical design will be adjusted to correct any design flaws and to optimize the final solutions.

Physical Design Workshop or (Database Prototyping Workshop - optional). This activity involves an on-site workshop with Core Group and other invited participants to review draft physical database design specifications. If database prototyping is also approved, a demonstration instance of the databases will also be demonstrated as part of the review and feedback session.

Create Final DB Design Document. Based on final technical feedback, a final consolidated design report will be created that includes Assessment & Conceptual, Logical, and Physical Design strategies and specifications. This report will also contain a Plan that outlines an estimated scope of work including effort, costs, and roles and responsibilities for enterprise GIS Database Implementation. This Plan component provides a roadmap for future deployment of all GIS database and related system and organizational components. The GeoAnalytics team will work closely with the Core Group to validate Implementation Plan details before finalization.

Final Presentation. The GeoAnalytics team will make a final presentation to the project team **(Core Group and select Secondary Group members)** on Database Design project findings and recommendations. This will include delivery of all final hardcopy and digital file deliverables, including the prototype database if constructed.

Deliverables

Deliverables for this phase of the project will include:

Physical Database Design Specifications. A final set of physical design specifications for targeted GIS databases will be delivered.

Physical Database Prototype (optional). A prototype test version of the physical databases designed as part of this project.

Database Implementation Plan. A Plan that outlines an estimated scope of work including effort, costs, and roles and responsibilities for enterprise GIS Database Implementation.

Final Combined Report. Single, bound document that includes all written deliverable components from all project phases.

Final Project Presentation

Elapsed Timeline

Approximately 12 weeks **(9 weeks if no prototype)**

Phase 4: Project Management

Objectives

The objective of project management will be to ensure the successful completion of the project through regular communications between GeoAnalytics and County project staff. Specific project and quality management practices that will be used in the proposed project (and were presented earlier under Project Management), include:

Activities

Project Setup. Work plan development, WIND2 setup, PM forms creation and approval by County.

Project Tracking and Status Reporting. Bi-weekly team coordination meetings (monthly on-site), status report creation and delivery, issues and scope change tracking, monthly invoicing.

Project Wrap-up.

Deliverables

Deliverables will include sound project management and quality assurance throughout the project.

Elapsed Timeline

Continuous through project

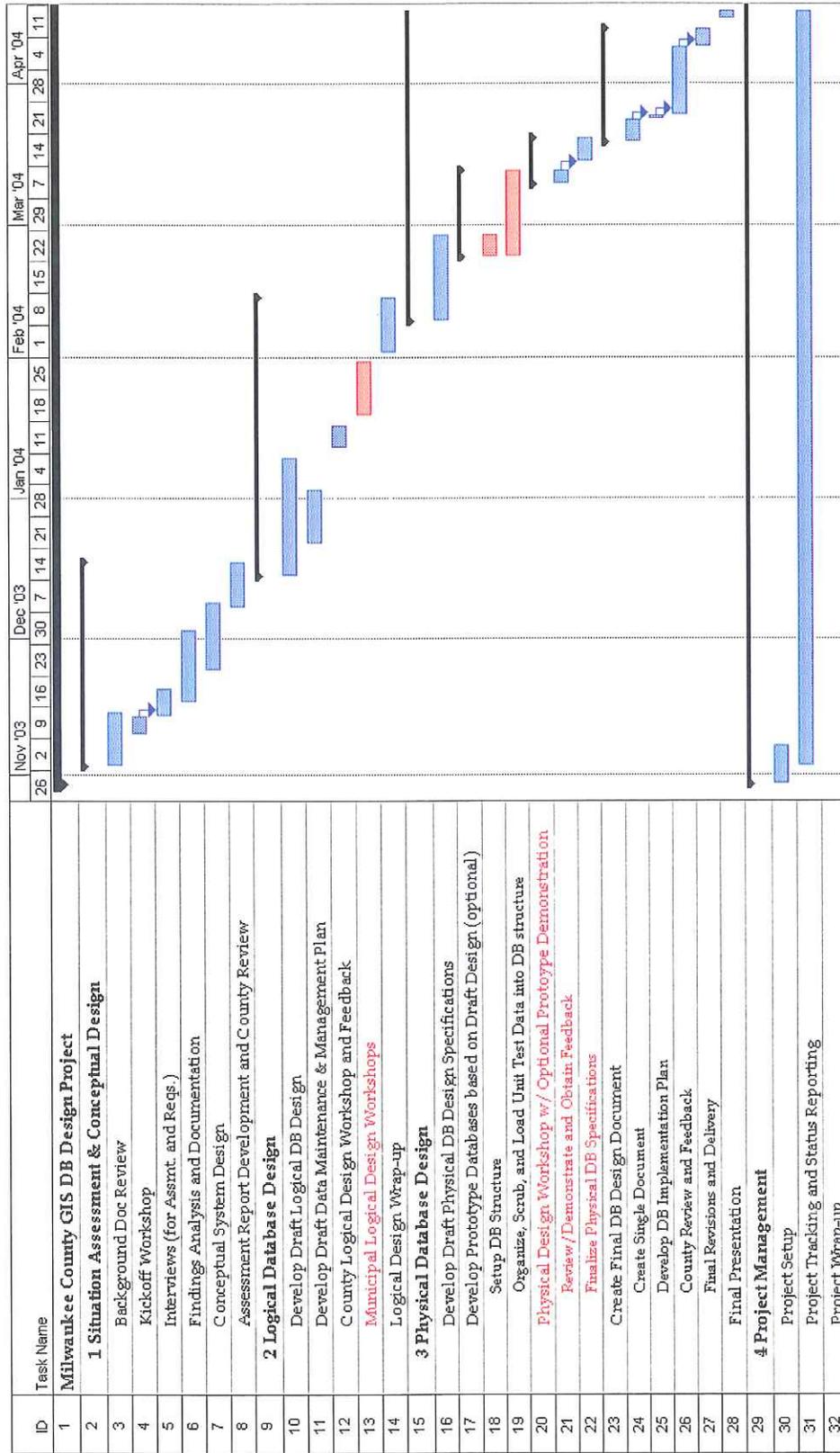
PROJECT SCHEDULE

Attached is a revised schedule (timeline) for the project based on the work breakdown structure described in Section One of this SOW document. Timelines for optional tasks, including Municipal workshops/design input as well as a Geodatabase Prototyping, are highlighted in red. The overall timeline is based on certain assumptions, including:

- County agreement with the proposed scope of work
- County staff availability to provide assessment assistance, workshop attendance for decision-making, and document review/feedback
- No delays with report creation and approval processes

GeoAnalytics is willing to accelerate project task timelines based on Consultant and County project staff schedules and a negotiated understanding with the County.

Figure 1: Project Timeline



MANPOWER ALLOCATION

The following is a revised, estimated breakdown of person hours for the proposed project based on our approach and scope of work defined in Section One of this document. Additional detail can be provided at the request of the County. GeoAnalytics reserves the right to negotiate with the County changes to the allocation of effort during the course of the project based on any changes in scope and/or deliverables.

Figure 2: Manpower Allocation Schedule

(See separate, attached pdf file)

FEE PROPOSAL

GeoAnalytics' total estimated fee for this project is \$104,400. This cost is based upon estimated consultant staff hours, hourly rates, and other direct expenses (e.g. travel, materials, lodging, etc.). The table below provides a breakdown of estimated labor costs for individual project phase components as well as estimated total project expenses. Subcomponent labor costs for the "Municipal Workshops" and "Geodatabase Prototyping" tasks are itemized in the table for optional consideration by the County.

Additional details can be provided to the County upon request.

PROJECT COMPONENT	COST
Phase 1 - Situation Assessment and Conceptual Design	\$29,650
Phase 2 – Logical Database Design <ul style="list-style-type: none"> • \$4,000 associated with Municipal Workshops task 	\$27,350
Phase 3 – Physical Database Design <ul style="list-style-type: none"> • \$9,000 associated with Geodatabase prototyping task 	\$34,150
Phase 4 – Project Management	\$11,250
Estimated Project Expenses	\$2,000
Total Cost for all Components	\$104,400.00

The GeoAnalytics team strives to provide fair pricing for services that we feel will provide exceptional value to the County. We are willing to negotiate changes to our proposed cost based on further understanding of County expectations for project scope and deliverables.

Milwaukee County GIS Database Design - Manhours Allocation

ID	Task Name	Work
1	Milwaukee County GIS DB Design Project	764 hrs
2	1 Situation Assessment & Conceptual Design	224 hrs
3	Background Doc Review	20 hrs
	Steve Denowski	4 hrs
	Peter Thum	6 hrs
	Scott Stocking	6 hrs
	Nancy von Meyer (FI)	4 hrs
4	Kickoff Workshop	52 hrs
	Steve Denowski	8 hrs
	Peter Thum	12 hrs
	Scott Stocking	16 hrs
	Nancy von Meyer (FI)	16 hrs
5	Interviews (for Assmt. and Reqs.)	40 hrs
	Steve Denowski	16 hrs
	Peter Thum	4 hrs
	Scott Stocking	16 hrs
	Nancy von Meyer (FI)	4 hrs
6	Findings Analysis and Documentation	58 hrs
	William Holland	2 hrs
	Steve Denowski	16 hrs
	Peter Thum	4 hrs
	Scott Stocking	32 hrs
	Nancy von Meyer (FI)	4 hrs
7	Conceptual System Design	42 hrs
	William Holland	2 hrs
	Steve Denowski	16 hrs
	Peter Thum	8 hrs
	Scott Stocking	16 hrs
8	Assessment Report Development and County Review	12 hrs
	Steve Denowski	2 hrs
	Scott Stocking	10 hrs
9	2 Logical Database Design	204 hrs
10	Develop Draft Logical DB Design	94 hrs
	Steve Denowski	24 hrs
	Peter Thum	16 hrs
	Scott Stocking	24 hrs
	Nancy von Meyer (FI)	30 hrs
11	Develop Draft Data Maintenance & Management Plan	44 hrs
	Steve Denowski	16 hrs
	Peter Thum	8 hrs
	Scott Stocking	16 hrs
	Nancy von Meyer (FI)	4 hrs
12	County Logical Design Workshop and Feedback	22 hrs
	Steve Denowski	6 hrs
	Peter Thum	4 hrs
	Scott Stocking	12 hrs
13	Municipal Logical Design Workshops	30 hrs
	Steve Denowski	10 hrs
	Peter Thum	6 hrs
	Scott Stocking	12 hrs
	Nancy von Meyer (FI)	2 hrs
14	Logical Design Wrap-up	14 hrs
	Steve Denowski	4 hrs
	Scott Stocking	6 hrs
	Nancy von Meyer (FI)	4 hrs
15	3 Physical Database Design	254 hrs
16	Develop Draft Physical DB Design Specifications	80 hrs
	Steve Denowski	40 hrs
	Scott Stocking	8 hrs
	Aaron Cohen	24 hrs
	Nancy von Meyer (FI)	8 hrs
17	Develop Prototype Databases based on Draft Design (optional)	66 hrs
	Steve Denowski	24 hrs
	Scott Stocking	16 hrs
	Aaron Cohen	24 hrs
	Nancy von Meyer (FI)	2 hrs
18	Physical Design Workshop w/ Optional Prototype Demonstration	24 hrs
	Steve Denowski	12 hrs
	Scott Stocking	6 hrs
	Aaron Cohen	6 hrs

Milwaukee County GIS Database Design - Manhours Allocation

ID	Task Name	Work
19	Create Final DB Design Document	50 hrs
	Steve Denowski	12 hrs
	Peter Thum	6 hrs
	Scott Stocking	24 hrs
	Nancy von Meyer (FI)	8 hrs
20	Final Presentation	34 hrs
	Steve Denowski	8 hrs
	Peter Thum	6 hrs
	Scott Stocking	8 hrs
	Nancy von Meyer (FI)	12 hrs
21	4 Project Management	82 hrs
22	Project Setup	12 hrs
	Peter Thum	2 hrs
	Scott Stocking	8 hrs
	Nancy von Meyer (FI)	2 hrs
23	Project Tracking and Status Reporting	64 hrs
	Peter Thum	24 hrs
	Scott Stocking	30 hrs
	Nancy von Meyer (FI)	10 hrs
24	Project Wrap-up	6 hrs
	Peter Thum	2 hrs
	Scott Stocking	4 hrs

EXECUTED LICENSE AGREEMENTS

Number of Executed Agreements		Licensee	Effective Date
Since 1995	For 2003	2003	
90.	1.	North Shore Fire Department	1/13/03
91.	2	Planning & Design Institute, Inc.	2/6/03
92.	3.	Nancy M. Aten	2/12/03
93.	4.	Graef, Anhalt, Schloemer and Associates, Inc.	4/2/03
94.	5.	Sandridge Commercial Real Estate, LLC	4/25/03
95.	6.	Bloom Consultants LLC	7/11/03
96.	7.	Landscape Architects, Inc.	7/22/03
97.	8.	Jenkins Survey and Design, Inc.	7/23/03
98.	9.	Access Engineering LLC	7/30/03

#58437 v1 - MCAMLIS-EXECUTED LIC. AGREEMNTS

	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	10/31/2003	TOTAL
	Actual	Actual	Actual	Actual	Actual	Actual	Actual	Actual	Actual	Actual	Actual	Actual	Actual	Actual	
Beginning Period Reserve-January	0	283,340	495,922	573,049	295,130	1,060,413	1,310,646	1,274,859	1,082,318	1,125,752	1,108,688	564,460	183,752	-141,197	-141,197
Mid-Year Reserve Changes	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Current Period Reserve	0	283,340	495,922	573,049	295,130	1,060,413	1,310,646	1,274,859	1,082,318	1,125,752	1,108,688	564,460	183,752	-141,197	-141,197
Recording Fees (\$4.00 Portion)	101,886	324,983	612,592	676,093	647,355	503,342	574,328	644,508	769,820	773,078	609,683	743,977	918,012	970,762	8,870,419
Recording Fees (\$1.00 Portion)	0	0	0	0	0	0	0	0	0	0	0	72,968	230,597	243,743	547,308
State Grants	0	0	0	150,000	200,000	165,000	138,500	55,300	139,226	152,270	103,895	325,997	197,979	167,680	1,795,847
1 Private Utility Contributions	312,000	312,000	312,000	312,000	312,000	312,000	312,000	312,000	312,000	312,000	312,000	312,000	312,000	312,000	3,120,000
2 MIMSD Contribution	0	0	0	50,000	50,000	50,000	50,000	50,000	50,000	50,000	170,000	0	0	0	520,000
Annual Revenue	413,886	636,983	924,592	1,188,093	1,209,355	718,342	762,828	749,808	959,046	975,348	883,578	1,142,942	1,346,588	1,382,185	13,293,574
TOTAL FUNDS AVAILABLE	413,886	920,323	1,420,514	1,761,142	1,504,485	1,778,755	2,073,474	2,024,667	2,041,364	2,101,100	1,992,266	1,707,402	1,530,340	1,240,988	13,152,377
Additional Encumbrance	100,000	22,075	534,849	272,943	-900,864	112,067	308,902	367,776	361,580	386,754	586,545	737,559	577,619	321,999	3,789,804
Legal Fees	0	350	600	0	0	0	0	0	0	0	0	0	0	0	950
Systems Consulting (UGC)	0	128,638	0	0	0	0	0	0	0	0	0	0	0	0	128,638
USPLS Remonumentation	0	41,260	0	0	0	0	0	0	0	0	0	0	0	0	41,260
Horizontal/Vertical Control Surveys	0	144,443	0	0	0	0	0	0	0	0	0	0	0	0	144,443
Aerial Photos/Mapping	21,555	17,925	292,060	1,178,794	1,340,370	356,953	490,821	576,268	556,108	608,450	842,594	787,620	1,095,708	707,303	8,872,528
Project Facilitator	8,991	73,567	21,650	14,995	0	0	0	0	0	0	0	0	0	0	119,203
Conference	0	59	1,046	319	0	0	528	0	0	0	0	0	0	0	1,953
RoD Computer Hardware/Software	0	0	0	0	6,291	797	0	0	0	0	0	0	0	0	7,088
RoD Materials Copied	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Computer Maintenance	0	0	0	0	0	0	26	0	0	0	0	0	0	0	26
Computer/Office Supplies	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
DPW Needs Analysis	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IMSD Strategic Initiative	40	554	13	0	0	0	3	5	0	0	343	0	442	0	1,399
Contractual Crosscharges	0	-4,470	-2,752	-1,040	-1,724	-1,708	-1,664	-1,700	-2,116	-2,792	-1,676	-1,529	-2,232	-1,440	-26,843
Charges Paid By Other Departments	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Miscellaneous	0	0	0	0	0	0	0	0	40	0	0	0	0	0	40
Annual Expenditures	30,586	402,326	312,616	1,193,059	1,344,936	356,042	489,713	574,573	554,032	605,658	841,261	786,091	1,093,918	705,863	9,230,685
TOTAL EXPS / ENCUMBRANCES	130,586	424,401	847,466	1,466,012	444,072	468,109	798,615	942,349	915,612	992,412	1,427,806	1,523,650	1,671,537	1,027,862	13,080,489
NET AVAIL FUNDS (END RESERVE)	283,300	495,922	573,049	295,130	1,060,413	1,310,646	1,274,859	1,082,318	1,125,752	1,108,688	564,460	183,752	-141,197	213,126	71,888

1. 1994 was the final year for this revenue source.

2. \$50,000 will be paid each year through 2000, and \$20,000 in 2003.

COUNTY EXECUTIVE'S 2004 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 of documented accuracy suitable for local planning.

Pursuant to Section 59.43, funding for a land information office, modernization of land records and the State of Wisconsin Land Information Program and Board is collected via a seven-dollar surcharge on the County's existing four-dollar Recording Fee. Four dollars of the additional seven-dollar surcharge are retained locally and specifically designated for expenditures associated with the creation, maintenance, and enhancement of the Milwaukee County Automated Land Information System within guidelines established by the Wisconsin Land Information Board (WLIB). One dollar of the additional seven-dollar surcharge is also retained locally and specifically designated for expenditures associated with initiatives to develop and maintain a computerized indexing of the County's land

information records relating to housing, including the housing element of the County's land use plan under Section 66.001(2)(b) (Smart Growth law) also within guidelines established by the WLIB. (No portion of the four dollar and one dollar surcharges are available for general County purposes.) Two dollars of the additional seven-dollar surcharge are forwarded to the WLIB. The County continues to retain its four dollar share of the Recording Fee.

Pursuant to Section 59.72 of 1997 Wisconsin Act 27, the \$1 and \$2 components of the \$7 surcharge were scheduled to no longer be collected effective September 1, 2003, and the initial MCAMLIS Requested Budget reflected a commensurate reduction. Changes made in mid-2003 to this existing legislation extend collection of these components of the surcharge into 2005. The Budget has been adjusted to reflect continued receipt of this revenue.

Previous Register of Deeds Recording Fees	\$4
Fee for MCAMLIS	4
Fee for Land Records Modernization Initiatives	1
Fee for State Land Information Board	<u>2</u>
	\$11

BUDGET SUMMARY				
	2002 Actual	2003 Budget	2004 Budget	2003/2004 Change
Services	\$ 1,095,708	\$ 999,000	\$ 911,500	\$ (87,500)
County Service Changes	0	1,000	1,000	0
Abatements	(2,232)	0	0	0
Total Expenditures	\$ 1,093,476	\$ 1,000,000	\$ 912,500	\$ (87,500)
Encumbrances	0	0	0	0
Total Expenditures & Encumbrances	1,093,476	1,000,000	912,500	(87,500)
State Grants	\$ 197,979	\$ 150,000	\$ 100,000	\$ (50,000)
Sewer District & Utility Contributions	0	0	0	0
Recording Fee Surcharge	1,148,609	850,000	812,500	(37,500)
Total Revenue	1,346,588	1,000,000	912,500	(87,500)
Contribution to Reserve Account	\$ 253,112	\$ 0	\$ 0	\$ 0
Property Tax Levy	\$ 0	\$ 0	\$ 0	\$ 0

COUNTY EXECUTIVE'S 2004 BUDGET

DEPT: MILWAUKEE COUNTY AUTOMATED LAND INFORMATION SYSTEM

SEP 22 2003

UNIT NO. 1923

FUND: General - 0001

BUDGET HIGHLIGHTS

- This appropriation provides 2004 expenditure authority of \$912,500 for the Automated Land Information System. Revenue of \$812,500 is projected to be collected from the surcharge collected by the Register of Deeds earmarked for land information modernization by Section 59.72(5) of the *Wisconsin Statutes*. An additional \$100,000 is expected to result from grants to be awarded to the County by the Wisconsin Land Information Board (WLIB). Contributions to this project from the Private utilities, Ameritech, Wisconsin Electric and Wisconsin Gas, of \$520,000 each, were completed in 1994. A contribution from the Milwaukee Metropolitan Sewerage District, also in the amount of \$520,000 was completed in 2000. Milwaukee County is not required to provide tax levy dollars.
- Expenditure authority of \$912,500 is comprised of \$588,000, to continue to develop and maintain the automated base map and parcel-based land information system as provided for in the plan approved by the County Board; \$262,500 to develop and maintain a computerized indexing of the County's land information records related to housing in a manner consistent with the requirements of Section 66.001(2)(6); \$60,000 for surveying services provided by the Southeastern Wisconsin Regional Planning Commission (SEWRPC) in performance of its duties as the Milwaukee County Surveyor under the requirements of Section 59.60, *Wisconsin Statutes*; \$1,000 to obtain subdivision and map survey prints from the Register of Deeds; and \$1,000 for meeting and travel expenses.
- With the exception of that portion of the County comprised of the City of Milwaukee, work on the initial digital base map was largely completed by the end of 1998. By the end of 1999, work on the creation of a street address and real property parcel database linked to the digital maps was also completed, again for that portion of the County outside the City of Milwaukee. Also during 1999, activities related to an ongoing maintenance effort were initiated to ensure that the automated base map is kept up-to-date for that portion of the County outside the City of Milwaukee. These activities continued during 2000 through 2003.
- During 1999, an update and extension of the County Land Records Modernization Plan was prepared and submitted to the Wisconsin Land Information Board (WLIB) in accordance with program requirements. The preparation of the updated Land Records Modernization Plan was needed to maintain County eligibility to retain Register of Deeds filing fees and to continue to receive grants under the provisions of the Wisconsin Land Information Program. The updated and extended plan was approved by the WLIB during 2000.
- The automated mapping base is to be enhanced by the creation of additional layers of information useful to County and local government. For example, during 2000, a digital land use mapping layer was completed. During 2002, an integrated set of administrative, legislative, and statistical area boundary overlay maps was completed. The preparation of a flood plain layer was initiated in 2001. This work continued during 2003 and will continue during 2004.
- During 1999 a major multi-year project to integrate the existing City of Milwaukee digital cadastral mapping into the County-wide system was initiated. This effort, expected to be completed by the end of 2004, will have required a total expenditure of about \$1.73 million at the time of its completion.

November 17, 2003

To: MCAMLIS Steering Committee

From: John La Fave, Milwaukee County Land Information Officer, Milwaukee County Register of Deeds

Re: Projects utilizing the \$1 retained fee

The MCAMLIS Steering Committee has asked that I that I develop a list of projects that will utilize the \$1.00 of each \$5.00 of the locally retained fees in keeping with the spirit and requirements of Wisconsin statute s.66.1001(2)(b).

The MCAMLIS Steering Committee previously authorized The Register of Deeds (ROD) to use up to \$240,000 for an upgrade of the software used for the ROD land records system. ROD expects to accomplish the software upgrade in 2004.

Request: an additional \$25,000 to upgrade to an integrated, automated electronic recording program. ROD has spent approximately \$12,000 \$15,000 of the \$20,000 that MCAMLIS previously authorized to enable electronic recording. This was used to purchase hardware and software to take advantage of a one-year free trial offer from Ingeo, Inc. to use their stand-alone non-integrated program. Electronically recorded documents now represent 4 to 5% of Milwaukee County's recordings, an average of 50 documents per day. The quantity of E-Recordings continues to increase which dictates that ROD purchase the integrated program for electronic recording.

Request: \$40,000 for the purchase of external hard drive (Snap Server). Document images are currently stored on and retrieved from optical platters/CDs, which are stored in a so-called jukebox. This mechanical storage system is approaching obsolescence. ROD would like to store images in an external hard drive which will have fewer problems, less interruptions and will provide a much faster process, especially for retrieving images. This system will also be more secure.

Request: \$200,000 for the conversion of microfiche images to digital format. ROD document images exist digitally only for recordings from 1-1-2000 forward. The cost to digitize microfiche images for five years, 1995-1999, is approximately \$100,000 to \$200,000. We have received one quote thus far for \$140,000. The public can now access Milwaukee ROD document images on the Internet and will appreciate the addition of prior years of images.

Request: \$20,000 to provide access to the Federal Tax Lien (FTL) database on the Milwaukee County web site. MCAMLIS previously funded the creation of an FTL database in the Register of Deeds. This project would allow the public to access this information on the Internet. Milwaukee County is meeting with the vendor on 11-19-2003 and will then have a better idea of the cost.

Request: \$3,000 to create a File Transfer Protocol (FTP) site. ~~Currently customers purchase CDs that contain document images. The creation of an FTP site will provide customers with a faster means of accessing this data. ROD staff time producing CDs will be eliminated.~~ Milwaukee County's Information Management Services Division will create the FTP site at no cost.

Status Report

Milwaukee City and County Cooperative Research on Map Maintenance

On July 22nd, the City met with the County Register of Deeds office to discuss the issues of tax listing and ultimately the maintenance of the City MCAMLIS Cadastral maps. We began with a tax listing discussion because the issue of maintaining the City of Milwaukee cadastral maps at the County is complicated by the fact that the County does not perform the tax listing functions. This means that the County MCAMLIS staff does not have access to the same data sources and details to maintain the maps as with the other communities in the County for which map maintenance is currently being performed. Since the process of tax listing is significantly different between the City and County this initial meeting discussed the process for both recorded documents inside the City of Milwaukee and outside.

The City of Milwaukee Assessor is exploring opportunities to reduce the duplicate effort between the City and County tax listing process. While this is a worthwhile effort, administrative and political changes at the City may make any progress difficult until 2004.

Email communication between the ROD's office (Kathy) and the City's ITMD office (Nancy) will continue in an effort to find a work around for the map maintenance. To date, we have not found a reasonable work around using the data readily available to the County.



SBC Wisconsin
722 N. Broadway
Floor 13
Milwaukee, WI 53202

November 17, 2003

From: Dextra Hadnot
Director, External Affairs

To: Mr. Hardy Meihnsner, Consultant
MCAMLIS Steering Committee

Mr. Meihnsner:

Attached is the statement approved by SBC Legal for your MCAMLIS Steering Committee Report due on Tuesday, November 18, 2003.

Please contact me if you have additional questions.

Sincerely,

A handwritten signature in black ink, appearing to read "Dextra Hadnot", is written over the typed name. The signature is fluid and cursive.

Dextra

SBC is not opposed in principle to some sort of web-based access to the digital mapping data, but it does oppose the proposal that SBC should give up or dilute its rights under the existing copyright and license. Therefore, although SBC does not support the proposed changes to the existing license and copyright, it is willing to support a new end-user license for the web application similar to the paper version which provides that the user would agree not to profit from the redistribution of the information.

LICENSE AGREEMENT

WHEREAS, Milwaukee County, AMERITECH (Wisconsin Bell), the Wisconsin Electric Power Company, the Wisconsin Gas Company, and the Milwaukee Metropolitan Sewerage District, have entered into a cooperative agreement establishing the Milwaukee County Automated Mapping and Land Information System, said system being governed by a Steering Committee comprised of representatives from Milwaukee County, AMERITECH (Wisconsin Bell), the Wisconsin Electric Power Company, the Wisconsin Gas Company, the Milwaukee Metropolitan Sewerage District, the City of Milwaukee, and the Intergovernmental Cooperation Council of Milwaukee County, to develop an automated mapping and land information system covering Milwaukee County, including, among other things, information and materials relating to U.S. Public Land Survey corner monumentation, control surveys, digital planimetric and topographic maps, digital cadastral map overlays, parcel identifiers, and other related documents and materials (all collectively the "Materials");

AND WHEREAS, in order to obtain certain financial support of AMERITECH (Wisconsin Bell), the Wisconsin Electric Power Company, and the Wisconsin Gas Company (the "Utilities") in connection with these activities, the Steering Committee has come to the following agreement relating to ownership, access, and use of the Materials:

1. Copyright Ownership. The Steering Committee shall own copyright title to all of said Materials with the exception of the "Digital Materials". The Digital Materials shall consist of all digital format (regardless of means of storage) Materials, including without limitation computer data bases. Copyright title to the Digital Materials shall be owned by a sub-committee of the Steering Committee (the "Sub-committee") comprised of AMERITECH (Wisconsin Bell), the Wisconsin Electric Power Company, and the Wisconsin Gas Company (the "Utilities").

2. License. All parties to the cooperative agreement creating the Milwaukee County Automated Mapping and Land Information System are hereby irrevocably and perpetually licensed (and granted the right to license others) to use, reproduce, modify, distribute, perform, and display the Materials (other than the Digital Materials) without restriction. With respect to the Digital Materials, all of the parties to the agreement creating the Milwaukee County Automated Mapping and Land Information System are hereby irrevocably and perpetually (albeit just for their own, including corporate affiliates, internal purposes), licensed to use, reproduce, modify, perform, and display the Digital Materials. This shall include the right to prepare and distribute non-digital form reports on one or more land parcels using the Digital Materials, and to distribute the reports to the public. However, except as provided below, absent the consent of a majority of both the Sub-committee and the Steering Committee, none of the members of the Steering Committee may permit distribution of copies of the Digital Materials (or digital form materials substantially based thereon) to others besides the Steering Committee. Distribution in violation of this paragraph shall be deemed to be a copyright violation. Each member of the Steering Committee shall prevent access by third parties to such digital items (except as provided below).

3. Notwithstanding the above, nothing herein shall preclude Milwaukee County from complying with its obligations under grant agreements with the State of Wisconsin, or restrict rights granted to the State of Wisconsin thereunder.

4. Nothing herein shall preclude the Milwaukee Metropolitan Sewerage District from complying with its obligations under any grant and aid agreement with the State of Wisconsin or the Federal Government or in complying with the requirements of Sections 19.32 to 19.39, Wisconsin Statutes.

WISCONSIN GAS COMPANY

Date 11/16/93

By Gerald R. Giroux

APPROVED
 ADDENDUM
ATTACHED
11/12/93
Law
LAW DEPT.

Attest _____

MILWAUKEE METROPOLITAN SEWERAGE DISTRICT

Date 11/17/93

By Robert J. Hill

Attest Richard H. Schaner

MILWAUKEE COUNTY REGISTER OF DEEDS

Date Nov 8. 1993

By Walter D. Barczak

Attest Shirley A. [Signature]

DIRECTOR, MILWAUKEE COUNTY
DEPARTMENT OF ADMINISTRATION

Date 11-9-93

By [Signature]

Attest Barbara Patisseau

KWB/TDP/DHH
5MCAMLIS.AD5
11/03/93

MCAMLIS Copyright Memorandum

October 10, 2003

MCAMLIS Copyright Memorandum

Date: October 10, 2003

To: Thomas D. Patterson
MCAMLIS Project Manager

From: Reinhard Meihnsner, President
Spatial Data Solutions, Inc.

Re: Report Summary, MCAMLIS Copyright Meeting

Time: Tuesday, September 23, 2003

Place: Milwaukee County Courthouse
Department of Administrative Services
Conference Room 308

Sub-committee Members Present

William Finke	Counsel, WE Energies
John Place	Manager, Maps and Records, WE Energies
William Shaw	Manager, Geographic Information Systems, WE Energies

Sub-committee Members Absent

Dextra Hadnot	Director, External Affairs, SBC
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Milwaukee County Representatives Present

Gary Drent	Fiscal & Budget Manager, Architectural and Engineering Services Milwaukee County Department of Public Works
Greg G. High	Director, Architectural and Engineering Services Milwaukee County Department of Public Works
John LaFave	Register of Deeds, Milwaukee County
Thomas F. Lewandowski	Fiscal and Management Analyst, Department of Administrative Services, Milwaukee County

Milwaukee Metropolitan Sewerage District (MMSD) Representative Present

David Misun	Facilities Information Supervisor, MMSD
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MCAMLIS Staff Present

Thomas D. Patterson	MCAMLIS Project Manager
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MCAMLIS Land and Utility Information System Internet Prototype

At its meeting held on August 29, 2000, the MCAMLIS Steering Committee approved a prospectus to investigate a Land and Utility Information System Prototype. The Southeastern Wisconsin Regional Planning Commission, acting on behalf of the Steering Committee, retained Ruckert/Mielke, Inc., to carry out the tasks outlined in the prospectus. A Technical Advisory Committee comprised of representatives from the MCAMLIS consortium and several representatives from the communities selected as pilot areas for the project, worked with Ruckert/Mielke, Inc., and SEWRPC to develop three reports that summarized the findings of the investigation. A fourth and final report provided the recommendations for the Steering Committee's consideration.

As part of the investigation into the feasibility of implementing a web-supported land information system, issues concerning the existing MCAMLIS copyright and attendant licensing agreement and data distribution practices were discussed by the Technical Advisory Committee. The Committee's conclusion was that the current licensing arrangement restricted the distribution of MCAMLIS digital mapping materials, unnecessarily controlled the use of this information, and, perhaps, limited enhancements that could benefit all users of the information. In the opinion of the Technical Advisory Committee, the distribution of MCAMLIS digital mapping materials in an Internet environment would be complicated by the existing copyright, the attendant license agreement requirement, and the associated data distribution guidelines. The Technical Advisory Committee recommended elimination of the copyright licensing requirement and associated distribution guidelines.

Copyright and License Agreement Background

Under a License Agreement entered into on December 9, 1993, Milwaukee County, the Milwaukee Metropolitan Sewerage District, Wisconsin Bell, the Wisconsin Electric Power Company, and the Wisconsin Gas Company -- the funding partners of the MCAMLIS program -- established a formal arrangement pertaining to matters of copyright ownership and use of MCAMLIS digital mapping materials (copy of License Agreement attached). The agreement distinguished between hard copy and digital mapping materials. Under the terms of the License Agreement, the Steering Committee retained copyright title to all hard copy maps. A subcommittee of the Steering Committee, comprised of Wisconsin Bell (now SBC Ameritech), Wisconsin Electric Power Company (now WE Energies) and Wisconsin Gas Company (also now WE Energies), was granted copyright title by the Steering Committee to the digital mapping materials prepared under the MCAMLIS work program.

Assignment of the copyright to the investor-owned utilities was, in large part, the result of two concerns. First, the utilities had an interest in knowing that the value of their individual \$520,000 investments would not be undermined by an outside party acquiring the data at minimal cost and using or reselling the data for profit. Second, there was an opinion that the licensing process might present an opportunity for the generation of revenue that could help to offset the costs of maintenance and the development of new applications for MCAMLIS. To date, no entity has expressed any substantive interest in acquiring the information at the \$520,000 amount and assessing an alternative charge over and above the cost to reproduce the data, but less than \$520,000, has not been considered by the Subcommittee or the MCAMLIS Steering Committee.

At its meeting held on October 17, 1995, the MCAMLIS Steering Committee adopted the "MCAMLIS Data Requisition and Distribution Guidelines" which implemented the above referenced License Agreement between the funding organizations. These guidelines required the execution of a separate License Agreement between the Utilities Subcommittee and the governmental unit or other entity wishing

to obtain access to the MCAMLIS digital mapping materials. The MCAMLIS Steering Committee was, and still is, comprised of representatives of the funding partners noted above with one additional representative each from the City of Milwaukee and the Intergovernmental Cooperation Council of Milwaukee County.

MCAMLIS Copyright and Attendant License Agreement Review

Based on the recommendation from the MCAMLIS Land and Utility Information System Committee report to eliminate the copyright and attendant licensing requirement, the MCAMLIS Steering Committee requested a staff review of the current copyright and attendant License Agreement practices. In addition to the review, the Steering Committee also requested the preparation of a memorandum report that would set forth the position of the Subcommittee concerning the continuation, modification, or abandonment of the licensing practices. Acting in its capacity as staff to the MCAMLIS Steering Committee, SEWRPC contracted with Spatial Data Solutions, Inc., to assist with the completion of the review and preparation of the report.

Meetings were arranged with appropriate individuals representing the subcommittee members who were not involved with the MCAMLIS program when the original copyright and licensing practices were established. These meetings were intended to brief the newer representatives on the history and current interest concerning the issue. A meeting was then arranged with the entire subcommittee to discuss the issues and to set forth a Subcommittee recommendation concerning the continuation, modification, or abandonment of the current License Agreement. At the conclusion of that meeting, the following positions had been established:

- WE Energies staff present at the meeting stated that the WE Energies subsidiary firms, Wisconsin Electric Power Company and Wisconsin Gas Company, did not see any benefit to their respective companies in continuing to hold the copyright to the MCAMLIS digital mapping materials; however, it was acknowledged that the concurrence of SBC Ameritech should be sought before the copyright was surrendered or abandoned by the Utilities Subcommittee.
- Meeting participants were of the opinion that if the utility subcommittee members were willing to surrender the rights and privileges granted by the copyright, then a decision concerning whether or not to abandon the copyright should be made by the MCAMLIS Steering Committee since the MCAMLIS Steering Committee had made the original grant of the copyright to the utilities subcommittee.
- Milwaukee County representatives present at the meeting stated that there might be value in the MCAMLIS Steering Committee holding the copyright, or in the event that the Steering Committee had no interest in holding the copyright, in assigning the copyright to Milwaukee County.
- Meeting participants agreed that in the event a copyright continued to be exercised with respect to the MCAMLIS digital mapping materials by any entity other than the Utilities Subcommittee, then Sections 2 and 8 of the copyright license agreement between the funding partners of the MCAMLIS program should be revised to reflect the fact that the investor owned utilities no longer held the copyright. This would also require revision of the current licensing requirements and practices for non MCAMLIS Steering Committee members who wished to acquire the MCAMLIS digital mapping materials.

AGREEMENT

THIS AGREEMENT, entered into this ____ day of _____, 2004, 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 (MCAMLIS) Steering Committee (hereinafter referred to as the "Steering Committee").

WITNESSETH:

WHEREAS, the Commission is authorized by Section 66.0309 of the *Wisconsin Statutes* to make studies and prepare plans for, and to provide advisory services to local governments, and to act as a coordinating agency for planning activities within its jurisdictional area; and

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 is 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 have 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 July 29, 1991, formally requested the Commission to accept the responsibilities of Project Manager for implementation of the recommended automated mapping and land information system; and

WHEREAS, the Executive Committee of the Commission on August 21, 1991, authorized Commission assistance in execution of the work required to implement the Milwaukee County automated mapping and land information system in the manner envisioned in the aforementioned Commission report; 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 Services

The Commission agrees to participate in, provide support for, and to otherwise act as agent for the Steering Committee in carrying out the comprehensive, digital flood hazard area mapping program in Milwaukee County as hereinafter set forth and as described in SEWRPC Staff Memorandum MCAMLIS2, "Milwaukee County Automated Mapping and Land Information System Program Implementation Project – Proposed Phase 2 Floodland Mapping for Milwaukee County," (Staff Memorandum) dated August 22, 2003, attached hereto and made a part hereof by reference to the same force and effect as if set forth at length herein. The services to be provided for the program by the Commission shall be performed by qualified engineering and planning staff employed by the Commission and experienced in hydrologic and hydraulic modeling and flood hazard area mapping, and by support staff as needed, all working under the direction of the Commission's Chief Environmental Engineer and the Commission's Executive Director.

The execution and completion of the study shall include, but not be limited to, the following services of the Commission: coordination with Milwaukee Metropolitan Sewerage District (MMSD) staff and consultants, the Wisconsin Department of Natural Resources (WDNR), and the Federal Emergency Management Agency (FEMA) as may be necessary to prepare maps that will be suitable for submittal to WDNR and FEMA for review, approval, and incorporation into local zoning ordinances and FEMA flood insurance rate maps; revision and update of existing hydrologic and hydraulic analyses as may be necessary to meet the current requirements of the WDNR and FEMA; preparation of digital and hardcopy maps at a scale of one inch equals 100 feet showing floodplain and floodway boundaries, coastal hazard areas, stream and overbank cross section alignments, and flood stage elevations, as described under Item II.A. of attached Staff Memorandum MCAMLIS2; preparation of composite digital flood hazard maps as described under Item II.B. of the Staff Memorandum; and preparation of digital flood hazard data files as also described under Item II.B. of the Staff Memorandum.

The Commission shall also prepare and administer the agreement needed to secure the fiscal and staff participation of the MMSD in carrying out this work effort in the manner set forth in the Staff Memorandum. Further, the Commission shall directly invoice the MMSD for its portion of the project budget as set forth in the attached Staff Memorandum and shall handle the fiscal management of the funds received in this manner.

The project covered under this agreement is the second and final phase of a larger project under which flood hazard areas will eventually be mapped throughout Milwaukee County. Phase 1 of the project will be completed in the first quarter of 2004. Under Phase 2 of the project, covered by this Agreement, the Commission shall perform the flood hazard area mapping services with respect to the streams in Milwaukee County that are listed under Item II.A of the Staff Memorandum.

The flood hazard maps will be prepared to represent constructed flood management projects, or completed portions of projects, where applicable.

II. Compensation

The Steering Committee shall pay to the Commission the sum of \$436,000 as full payment for the services described in Section I.

III. Method of Compensation

The Commission shall submit invoices to the Steering Committee during the progress of the work in accordance with the following schedule:

March 31, 2004	\$72,650
September 30, 2004	72,650
March 31, 2005	72,650
September 30, 2005	72,650
March 31, 2006	72,700
Upon project completion	72,700

The Steering Committee shall pay to the Commission the amounts shown on the invoices upon receipt of said invoices.

IV. Timing

The work to be performed under this Agreement shall be completed no later than 36 months from the effective date of this Agreement.

V. 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.

VI. 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 *Wisconsin 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.

VII. Records and Audits

The Commission shall allow Milwaukee County, the Milwaukee County Department of Audit, or any other party the 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 the Milwaukee County aforementioned audit information for no less than three years after the conclusion of each contract term.

VIII. Independent Contractor

Nothing contained in this 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.

IX. Authorization

The Steering Committee approved the project that is the subject of this Agreement by action taken at a regular meeting held on November 18, 2003.

SEWRPC Staff Memorandum MCAMLIS2

MILWAUKEE COUNTY AUTOMATED MAPPING AND
LAND INFORMATION SYSTEM PROGRAM IMPLEMENTATION
PROJECT—PROPOSED PHASE 2 FLOODLAND MAPPING FOR MILWAUKEE COUNTY

I. EXECUTIVE SUMMARY

The overall objective of the Milwaukee County Automated Mapping and Land Information System (MCAMLIS) program, as detailed in Southeastern Wisconsin Regional Planning Commission (SEWRPC) Community Assistance Planning Report No. 177, *Feasibility Study for a Milwaukee County Automated Mapping and Land Information System*, October 1989, is to complete a multi-purpose, multi-user, parcel-based automated mapping and land information system for the entirety of Milwaukee County. The project proposed in this Staff Memorandum is the second and final phase of a program that will contribute significantly and specifically toward meeting this objective by providing for the accurate mapping in digital and hard copy format of the 10-, 50-, 100-, and 500-year recurrence interval floodplain areas along approximately 54 miles of stream and 100-year Lake Michigan coastal flooding areas along about 30 miles of shoreline within the County. The total project area for project Phases 1 and 2 consists of 508 U.S. Public Land Survey one-quarter sections and encompasses riverine floodplain and Lake Michigan coastal flooding areas in all of the communities in the County, including the Cities of Cudahy, Franklin, Glendale, Greenfield, Milwaukee, Oak Creek, South Milwaukee, Wauwatosa, and West Allis and the Villages of Bayside, Brown Deer, Fox Point, Greendale, Hales Corners, River Hills, St. Francis, Shorewood, West Milwaukee, and Whitefish Bay. The Phase 2 project area, which covers the Cities of Franklin, Greenfield, Oak Creek, and West Allis and the Villages of Greendale and Hales Corners is shown on the map attached hereto as Exhibit A.

The proposed project constitutes an important step toward the ultimate realization of a fully automated, parcel based, land information system as described in the aforereferenced planning report. Upon completion of this project, floodplain boundaries will have been accurately delineated and digitally added to all large-scale topographic maps prepared under the MCAMLIS project. The proposed mapping will consist of layers in the system which can readily be combined with the large-scale cadastral, as well as topographic maps which have been prepared under the MCAMLIS program. The layers will also be suitable for use with digital orthophotographic products and other map products correctly related to the MCAMLIS survey control network. Four layers will include the 10-, 50-, 100-, and 500-year recurrence interval floodplain boundaries; a fifth the 100-year recurrence interval floodway boundaries; and a sixth the flood stage elevations, cross-section locations, and river mile stations. The mapping will provide an improved basis for local floodplain zoning, which is currently required under Chapter NR 116 of the *Wisconsin Administrative Code* and is in place in all of the communities in Milwaukee County. It can also be used to develop an up-to-date Countywide digital Federal Emergency Management Agency (FEMA) flood insurance rate map.

The proposed project will include the delineation of the aforementioned floodplain data for all streams in the Root River watershed that were included under the Milwaukee Metropolitan Sewerage District (MMSD) 1990 stormwater drainage and flood control system plan as that plan was prepared by the Regional Planning Commission in December 1990, and as updated by the MMSD from 1998

through the present, and all other streams for which detailed studies or approximate delineations have been developed by the Regional Planning Commission or FEMA as the basis for floodland zoning purposes. All the hydrology and hydraulics will be updated to reflect planned year 2020 land use and existing channel conditions. In the case of the stream reaches which have been analyzed by the MMSD as part of its watercourse system planning program, the modeling has generally been updated to current conditions and to reflect 2020 land use conditions. These updated analyses, with appropriate refinements and expansions, will serve as the basis for the MCAMLIS mapping along those streams studied by the MMSD. Such refinement and expansion would potentially include consideration of extended rainfall periods of record, alternative rain gauge locations, calibration methodology, hydraulic model coverage, and possible bridge or culvert alterations since preparation of the MMSD models. The amount of refinement and expansion, if any, would be determined on a subwatershed basis, in concert with the agencies and local units of government involved in the ultimate uses of the mapping including the Wisconsin Department of Natural Resources (WDNR) and FEMA. In addition, 100-year stage data will be mapped for the Lake Michigan coastal flood hazard areas, as defined by the U.S. Army Corps of Engineers.

The project will also involve preparation of composite digital flood hazard maps on suitable base maps compiled at scales of one inch equals 2,000 feet and one inch equals 4,000 feet. Such maps would be useful to local government officials and staff, particularly County and local emergency government and emergency services departments.

The proposed project will benefit Milwaukee County; each municipality within the County; the property owners within the environs of the municipalities; the public and private utilities whose service areas are within the project area; and the engineers, planners, zoning administrators, building inspectors, and emergency government personnel who work on a day-to-day basis within the project area.

The project will be sponsored and funded by the MCAMLIS Steering Committee. In addition, there will be costs involved in the refining and detailing of the hydrologic and hydraulic analyses which serve as the basis of the mapping in order to meet current FEMA and WDNR guidelines and standards. The costs of updating the analyses for the stream reaches studied under the MMSD system plan would be borne by the District. The costs for updating the analyses of the other stream reaches will be borne by the MCAMLIS Steering Committee.

The projected total cost of this implementation project has been estimated at \$494,000. The MCAMLIS program would provide \$436,000, or 88 percent of the total cost and the MMSD would provide \$58,000, or 12 percent.

II. DETAILED PROJECT DESCRIPTION

This proposed Milwaukee County Automated Mapping and Land Information System project will consist of the following work elements:

A. Delineation and Digitization of 10- through 500-Year Recurrence Interval Floodplain and 100-Year Floodway Boundaries on MCAMLIS Maps

Upon completion of Phase 2, the overall Phase 1 and 2 mapping program will have included the delineation and digitization of the 10-, 50-, 100-, and 500- year floodplain boundaries and the 100-year floodway boundaries along approximately 159 miles of streams (54 miles of that total under Phase 2) located in 508 U.S. Public Land Survey one-quarter sections within Milwaukee County. The maps will show stream and overbank cross section alignments and

will indicate flood stage elevations in feet above National Geodetic Vertical Datum, 1929 adjustment. Digital topographic base mapping at a scale of one inch equals 100 feet, with two-foot interval contour lines, meeting National Map Accuracy Standards has been completed for all of the one-quarter sections concerned under the MCAMLIS program. In addition, the MMSD, the Regional Planning Commission, and FEMA have, under previous work programs, determined the 10- through 100-year recurrence interval flood stages, and in some cases, the 500-year stages, at critical locations along all but 5.3 miles of the Phase 2 stream channels. Along those 5.3 miles of stream FEMA has published approximate floodplain mapping. The flood stage data were developed by hydrologic and hydraulic simulation studies using calibrated mathematical models. The hydrologic and hydraulic modeling is documented in published documents cited in the subsequent section of this narrative. As described under section II.C., the hydraulic modeling will be refined, updated, and expanded as needed to reflect current channel conditions and 2020 land use conditions and to meet all FEMA and WDNR requirements. Coastal flood hazard areas will be provided in digital form along the shoreline of Lake Michigan. Floodplain and floodway boundaries, stream and overbank cross-section locations, and flood elevations will be provided in digital form along all, or portions, of the following 23 streams:

Root River Watershed

104th Street Branch (tributary to the Root River)
Caledonia Branch
Crayfish Creek
Dale Creek
East Branch of the Root River
Hale Creek
North Branch of the Root River
North Branch of Whitnall Park Creek
Northwest Branch of Whitnall Park Creek
Root River
Root River Canal
Ryan Creek
Scout Lake Creek
Tess Corners Creek
Tributaries 2, 3, 4, and 5 to the North Branch of the Root River
Unnamed Tributary No. 1 to the East Branch of the Root River
Unnamed Tributary to Ryan Creek
Unnamed Tributary to the North Branch of the Root River (at Oakwood Road)
Unnamed Tributary to the Root River (at Oakwood Park)
West Branch of Crayfish Creek
West Branch of the Root River
Whitnall Park Creek
Woods Creek (Root)

B. Preparation of Composite Digital Flood Hazard Maps

The preparation of composite digital flood hazard maps on suitable base maps compiled at scales of one inch equals 2,000 feet and one inch equals 4,000 feet will enable local officials and staff to readily visualize the extent of potential flooding in their communities. Such maps would be useful to the Milwaukee County Division of Emergency Government and to local emergency services departments in planning for the provision of emergency services during

under Phase 1. Such a program would provide for a uniform, Countywide updated DFIRM for all communities in the County. Following initial discussions on this potential future program, a report will be made to the Steering Committee for guidance prior to soliciting community input.

IV. PROJECT SCHEDULE AND TIMELINES

All project tasks specified herein will be completed within 36 months of the effective date of the resulting grant agreement. The project schedule is attached hereto as Exhibit C.

V. ALL CONTRACTORS, VENDORS, OR EMPLOYEES WHO WILL BE ASSIGNED TO THE PROJECT

Policy guidance for the proposed project will be provided by the MCAMLIS Steering Committee, which is responsible for the direction of the MCAMLIS program. The MMSD is directly represented on this Committee, as is the Milwaukee County Register of Deeds as the County Land Information Officer. The Committee is staffed by the Southeastern Wisconsin Regional Planning Commission. The SEWRPC project manager will be responsible for the overall management of the project. The SEWRPC staff will perform the tasks required for completion of the project as described herein. Subcontractors may be hired by the Regional Planning Commission.

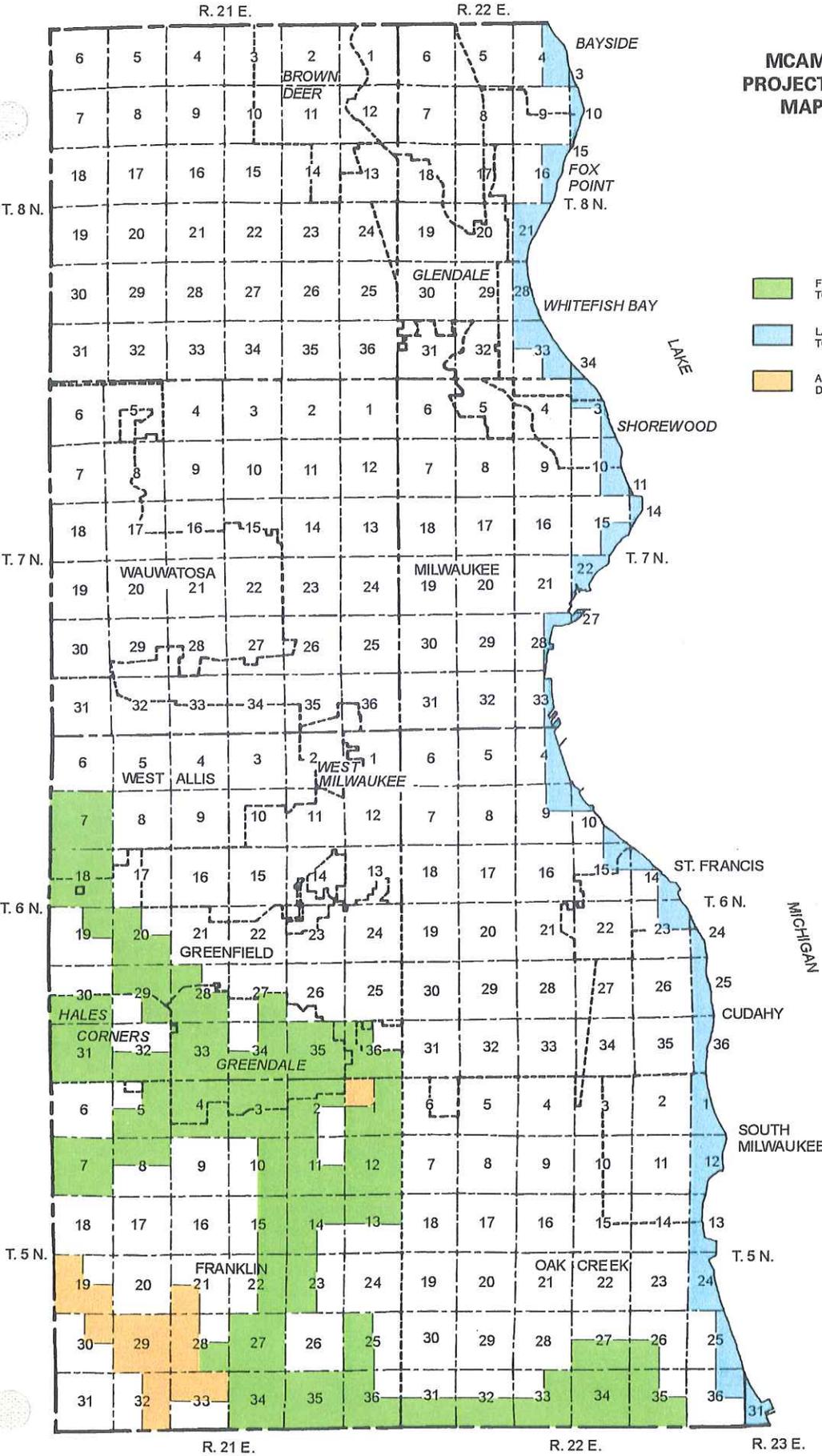
VI. PROJECT BUDGET

The project budget is summarized in Exhibit D.

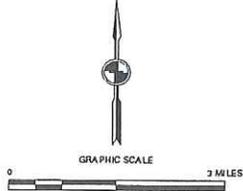
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Exhibit A

**MCAMLIS PROGRAM IMPLEMENTATION
PROJECT—PROPOSED PHASE 2 FLOODLAND
MAPPING FOR MILWAUKEE COUNTY
AUGUST 2003**



- FLOODPLAIN AND FLOODWAY BOUNDARIES TO BE DELINEATED AND DIGITIZED
- LAKE MICHIGAN COASTAL FLOODPLAIN BOUNDARIES TO BE UPDATED AS NEEDED, DELINEATED AND DIGITIZED
- APPROXIMATE FLOODPLAIN DELINEATION FOR WHICH DETAILED STUDIES AND DELINEATIONS WILL BE PREPARED



Source: SEWRPC.

Exhibit B

STREAMS FOR WHICH FLOOD HAZARD DATA ARE TO BE MAPPED

Stream	Source of Flood Hazard Data
Root River Watershed	
104th Street Branch (tributary to the Root River)	MMSD ^a
Caledonia Branch	MMSD ^a — Available at WDNR
Crayfish Creek	WRSP No. 260, 1994
Dale Creek	Village of Greendale FIS, 1982
East Branch of the Root River	MMSD ^a
Hale Creek	MMSD ^a
North Branch of the Root River	MMSD ^a
North Branch of Whitnall Park Creek	MMSD ^a , Village of Hales Corners FIS, 1988
Northwest Branch of Whitnall Park Creek	MMSD ^a , Village of Hales Corners FIS, 1988
Root River	MMSD ^a
Root River Canal	MMSD ^a
Ryan Creek	WRSP No. 272
Scout Lake Creek	Village of Greendale FIS, 1982
Tess Corners Creek	MMSD ^a , City of Franklin FIS, 1982
Tributaries 2, 3, 4, and 5 to the North Branch of the Root River	Village of Greendale FIS, 1982
Unnamed Tributary No. 1 to the East Branch of the Root River	Village of Greendale FIS, 1982
Unnamed Tributary to Ryan Creek	Approximate floodplain—no detailed data
Unnamed Tributary to the North Branch of the Root River (at Oakwood Road)	Approximate floodplain—no detailed data
Unnamed Tributary to Root River (at Oakwood Park)	WRSP No. 247, 1993
West Branch of the Root River	City of West Allis FIS, 1981
Whitnall Park Creek	MMSD ^a , Village of Hales Corners FIS, 1988
Woods Creek (Root)	City of Franklin FIS, 1982

^aSEWRPC Community Assistance Planning Report No. 152, A Stormwater Drainage and Flood Control System Plan for the Milwaukee Metropolitan Sewerage District, December 1990, MMSD Root River Phase I Watercourse System Management Plan, August 2000, and subsequent MMSD advanced planning projects.

Exhibit D

COSTS AND REVENUES
MILWAUKEE COUNTY AUTOMATED MAPPING AND LAND INFORMATION SYSTEM PROGRAM
IMPLEMENTATION PROJECT—PHASE 2 FLOODLAND MAPPING

Work to Be Conducted	Source of Revenue	Amount
Phase 2—Analysis and Mapping		
1. Updated Hydrologic and Hydraulic Analyses, Delineation, and Digitizing for Stream Reaches Currently Assigned Detailed Delineations	MCAMLIS	\$369,000
	Milwaukee Metropolitan Sewerage District	58,000
	Subtotal	\$427,000
2. Hydrologic and Hydraulic Analyses, Delineation, and Digitizing for Stream Reaches Currently Assigned Approximate Floodplains	MCAMLIS	\$ 44,000
3. Delineation and Digitizing of Lake Michigan Coastal Flooding Area	MCAMLIS	\$ 18,000
4. Composite Digital Flood Hazard Maps	MCAMLIS	\$ 5,000
Phase 2 Total by Revenue Source	MCAMLIS	\$436,000
	Milwaukee Metropolitan Sewerage District	\$ 58,000
Phase 2 Total	--	\$494,000

Source: SEWRPC.

AGREEMENT

THIS AGREEMENT, entered into this ____ day of _____, 2004, 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; 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, the removal and/or replacement of such monuments and reference benchmarks 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 on a quarterly basis to transmit updated copies of the five lists

identified in paragraph 2 above. These updated lists shall be provided to the Milwaukee County Director of Public Works, the Milwaukee County Register of Deeds, selected city and village engineers within the County, and all land surveyors who have submitted records of surveys to the Commission for indexing and filing.

- 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 \$60,000.00 as full payment for the services described herein.
- VI. Method of Compensation
The Commission shall submit a single invoice in the amount of \$60,000.00 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, 2004, through December 31, 2004.
- 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 November 18, 2003.

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

ATTESTING WITNESS

**SOUTHEASTERN WISCONSIN
REGIONAL PLANNING COMMISSION**

By _____
Philip C. Evenson
Deputy Secretary

By _____
Thomas H. Buestrin
Chairman

ATTESTING WITNESS

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

By _____
Thomas D. Patterson
Project Manager

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 _____
John R. Rath (Date)
Milwaukee County Department of Risk Management

**APPROVED AS TO CHAPTER 42
DBE PROVISIONS**

Frieda F. Webb (Date)
Milwaukee County DBD Acting Director



November 17, 2003

Mr. Thomas Patterson, Project Manager
Southeastern Wisconsin Regional Planning Commission
916 N. East Ave, P.O. Box 1607
Waukesha, WI 53187-1607

RE: MCAMLIS

Dear Mr. Patterson:

Please be advised that the nominating committee of one – myself – has developed a list of candidates for the MCAMLIS Steering Committee as follows:

Chairperson – Dr. Kurt W. Bauer

Vice-Chairperson – Mr. John LaFave

Please submit the above names at the November 18, 2003 Steering Committee Meeting.

Yours very truly,

A handwritten signature in cursive script, appearing to read 'John M. Bennett', written over the typed name.

John M. Bennett, P.E.
City Engineer

JMB/db

✓K. Status of MCAMLIS cash flow (copy of cash flow table enclosed).

POK L. Report by Milwaukee County Department of Administrative Services staff on the status of the MCAMLIS 2004 budget (copy of requested budget enclosed).

copy M. Report by Milwaukee County Register of Deeds on the completion of a list of potential projects eligible for funding using the \$1 portion of the locally retained document filing fees (copy of project list enclosed).

IV. Old Business

TABLE UNTIL 7/2004
A. Report on meetings between the Milwaukee County Register of Deeds and the City of Milwaukee Assessor to consider elimination of duplicative work tasks between the County and the City staffs (copy of status report enclosed).

B. Status of a proposal to transfer MCAMLIS one-quarter section based digital cadastral maps to a "seamless map" environment (copy of memorandum previously distributed for June 10, 2003, meeting; further discussion will be held over until 2004).

HOLD UNTIL 2004

C. Status of a proposal for the development of a transactional map update capability for the MCAMLIS cadastral map layer (copy of memorandum previously distributed for June 10, 2003, meeting; further discussion will be held over until 2004).

D. Status of a proposal for the extension of the MCAMLIS street address database (copy of memorandum previously distributed for June 10, 2003, meeting; further discussion will be held over until 2004).

2/ E. Consideration of the report on the MCAMLIS digital map copyright and attendant License Agreement practices (copy of memorandum enclosed).

V. New Business

copy ✓ A. Consideration of an Agreement between the MCAMLIS Steering Committee and the Southeastern Wisconsin Regional Planning Commission to initiate Phase 2 of the MCAMLIS Floodland Mapping Project (copy of proposed Agreement enclosed).

copy B. Consideration of an Agreement between the MCAMLIS Steering Committee and the Southeastern Wisconsin Regional Planning Commission for the provision of Milwaukee County Surveyor Services for 2004 (copy of proposed Agreement enclosed).

VI. Election of Steering Committee officers for 2004.

VII. Correspondence

VIII. Date, time, and place of next meeting

IX. Adjournment

Kurt W. Bauer
Chairman

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

Fifty-Eighth Steering Committee Meeting

AGENDA

DATE: November 18, 2003
TIME: 9:00 A.M.
PLACE: Milwaukee County Courthouse
901 N. Ninth Street
Room 203-P
Milwaukee, Wisconsin

I. Roll Call

II. Meeting Minutes

Consideration of minutes of the 57th Steering Committee meeting held on July 15, 2003 (copy of minutes enclosed).

III. Reports

app

A. Report by project staff on the status of Milwaukee County's WLIP 2000 and 2001 grant projects and the announcement of the WLIP 2004 grant awards (copy of 2004 announcement enclosed).

place on file

B. Report by City of Milwaukee staff on the status of Milwaukee cadastral map transformation projects (copy of report and status maps enclosed).

poF

C. Report by project staff on the transfer of completed MCAMLIS format City of Milwaukee cadastral maps to the County Register of Deeds office for maintenance (copy of letter enclosed).

✓

D. Report by project staff on the steps taken to improve the timeliness of the MCAMLIS street address file maintenance.

poF

E. Report by Milwaukee County Register of Deeds staff on MCAMLIS street address file and cadastral map maintenance operations (copies of status maps enclosed).

✓

F. Report by project staff on the status of the MCAMLIS Floodland Mapping Project (copy of Memorandum enclosed).

✓

G. Report by Milwaukee County Surveyor on Control Survey System maintenance (copy of status report to be distributed)

poF

H. Report by project staff on the status of the publication of the first MCAMLIS Newsletter.

app

Ⓢ

I. Report by Milwaukee County Department of Public Works staff on the status of the Milwaukee County GIS Needs Assessment (copy of status report enclosed).

poF

J. License Agreements executed on behalf of the Utilities Subcommittee (copy of table of executed license agreements enclosed).

MINUTES OF THE 57th MEETING

Milwaukee County Automated Mapping and Land Information System Steering Committee

DATE: July 15th, 2003
TIME: 9:00 A.M.
PLACE: Milwaukee County Courthouse
901 N. 9th Street
Room 203-P
Milwaukee, WI

Members Present

Kurt W. Bauer, Chairman
John M. Bennett

Gregory G. High
(representing Thomas D. Kenney)
John LaFave
Thomas F. Lewandowski

David S. Misun

Nancy A. Olson
William C. Shaw

Members Absent

Dextra Hadnot
John C. Place

Guests and Staff Present

Kathleen A. Bach
Wendy J. Bradshaw
Jeffrey T. Fortin
Marcia G. Lindholm

Reinhard B. Meihnsner
Steven A. Miner
Thomas D. Patterson
Kevin R. White

Milwaukee County Surveyor
City Engineer, City of Franklin, representing the
Intergovernmental Coordination Council of Milwaukee County
Director, Architectural and Engineering Services, Milwaukee
County Department of Public Works
Register of Deeds, Milwaukee County
Fiscal and Management Analyst, Milwaukee County Department
of Administrative Services
Facilities Information Supervisor, Milwaukee Metropolitan
Sewerage District
GIS Manager, City of Milwaukee
Manager, Geographic Information Systems Mapping, WE Energies

Director, External Affairs, SBC
Manager, Maps and Records, WE Energies

GIS Technician, Register of Deeds Office, Milwaukee County
SEWRPC Secretary
Planning and Zoning Administrator, City of Glendale
Central Drafting and Records Manager, Infrastructure Service
Division, City of Milwaukee
Consultant, Spatial Data Solutions, Inc.
Assessor/IT Director, City of Cudahy
MCAMLIS Project Manager
GIS Supervisor, Department of Public Works, Milwaukee County

ROLL CALL

The fifty-seventh 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.

CONSIDERATION OF MINUTES OF THE 56TH STEERING COMMITTEE MEETING HELD ON JUNE 10, 2003

Chairman Bauer noted that copies of the minutes of the fifty-sixth meeting of the Steering Committee held on June 10, 2003, had been distributed to all members of the Committee for review prior to the meeting, and asked that the Committee consider those minutes.

Mr. Bennett inquired as to the resolution of the discussion at the June 10, 2003, meeting concerning the potential use of MCAMLIS project funds to support water supply planning, noting that the recommendations summarized on page 14 of the MCAMLIS Strategic Assessment memorandum attached to the June 10th meeting minutes listed such planning as a recommended MCAMLIS work program project. Mr. Patterson called Mr. Bennett's attention to the fifth paragraph of page 14 of the meeting minutes noting that the action taken by the Steering Committee to approve the Strategic Assessment memorandum explicitly deleted any "Smart Growth" related projects from the MCAMLIS work program. Mr. Patterson stated that this action by the Steering Committee removed the possibility of using MCAMLIS funds to fund any water supply planning activity.

Chairman Bauer stated that Mr. Patterson's response to Mr. Bennett's inquiry constituted, in his judgment, a clarification rather than a correction to the minutes, and that it should not be necessary for the Steering Committee to take any specific action as a result.

There being no further questions, comments, or corrections, on a motion by Mr. Bennett, seconded by Mr. High, and carried unanimously, the minutes of the meeting of June 10, 2003, were approved as published.

REPORTS

Report by Commission Staff on Status of County WLIP 2002 Grant Agreements

Mr. Patterson noted that, as reported at the June 10, 2003 meeting, the three grant agreements governing the three grant awards made to Milwaukee County under the Wisconsin Land Information Program (WLIP) 2002 grant distribution, had, at that time, been partially executed by the cognizant Milwaukee County officials and returned to the Office of Land Information Services on April 15, 2003, for full execution. Mr. Patterson reported that all three agreements had now been fully executed and copies returned to the County and to the MCAMLIS staff. The projects involved consisted of the additional City of Milwaukee cadastral map transformation work for project areas 8, 9A, and 9B.

There being no questions or comments on the report, it was the consensus of the Committee that the report be placed on file via the minutes of the meeting.

Report by Commission Staff on the Status of Milwaukee Cadastral Map Transformation Project

Chairman Bauer noted that all members of the Steering Committee had received a copy of the report on the City of Milwaukee cadastral map transformation project for review prior to the meeting.

Chairman Bauer asked Ms. Olson to review the report with the Committee, which Ms. Olson did with reference to the status map attached to the report.

There being no questions or comments on the report, it was the consensus of the Committee that the report be placed on file via the minutes of the meeting (copy of report attached to these minutes).

Report on the Status of the Transfer of City of Milwaukee Cadastral Maps Compiled and Transformed to MCAMLIS Standards

Mr. Patterson noted that at the meeting of June 10, 2003, the Committee had directed the staff to arrange an interagency staff meeting to be attended by Ms. Kathleen Bach, Ms. Nancy Olson, and a representative or representatives of the County Department of Public Works to consider and agree upon an orderly procedure for the transfer of the data required to maintain current the MCAMLIS cadastral base maps covering the City of Milwaukee. Mr. Patterson reported that the requested meeting had been scheduled for July 21, 2003, in the Regional Planning Commission offices.

[Secretary's Note: The meeting concerned was held in the Regional Planning Commission offices on July 21, 2003, with the following in attendance: Kathy Bach, GIS Technician, Milwaukee County Register of Deeds Office; Gary Drent, Fiscal & Budget Manager (A & E), Milwaukee County Department of Public Works; John LaFave, Milwaukee County Register of Deeds; Nancy Olson, GIS Manager, City of Milwaukee; Thomas Patterson, MCAMLIS Project Manager; and Kevin White, GIS Supervisor, Milwaukee County Department of Public Works. At the meeting, Ms. Olson, on behalf of City staff, committed to supplying the Register of Deeds staff, specifically Ms. Bach, with information on street and alley closings and street renamings, actions that rarely are filed with the Register of Deeds Office and that, therefore, would not be readily available to Ms. Bach for map update and maintenance activities.

There was also discussion at the meeting about Ms. Bach's need to acquire tax key numbers assigned by the City of Milwaukee Assessor's staff. These tax key numbers are needed for Ms. Bach's assigned map update and maintenance responsibilities. It could not be determined at this meeting how to best accomplish this, and the consensus reached was that this need might be better investigated through the discussions underway between the County Register of Deeds and the City Assessor concerning possible collaboration or cooperation to reduce duplicative effort.]

There being no questions or comments on the report, it was the consensus of the Committee that the report be placed on file via the minutes of the meeting.

Report on Efforts to Secure Timely Transfer of Data Required to Maintain the MCAMLIS Street Address Coding Files Current

Mr. Patterson recalled that Ms. Bach had, at the meeting of June 10, 2003, reported that she was experiencing difficulty with obtaining data to update the street address coding files as they relate to the Villages of Fox Point and West Milwaukee, and the Cities of Glendale, Greenfield, and South Milwaukee, and that the Committee had directed him to arrange meetings to be attended by himself, Ms. Bach, and cognizant officials from each of the five communities concerned in order to ascertain the cause of the difficulties and consider means for abating those causes and obtaining the needed data in a timely manner.

Mr. Patterson reported that since the meeting of June 10, 2003, Ms. Bach had received the needed data from the Village of West Milwaukee and the City of South Milwaukee as a result of efforts by Ms. Alissa Bails, GIS Division Manager for the firm of R. A. Smith & Associates, Inc., this firm serving as the Village Engineer and City Engineer, respectively, of these two municipalities. As a result, Ms. Bach has been able to update the address database for the Village of West Milwaukee to the same date of currency as exists for the balance of the County and is currently in the process of updating that same database for the City of South Milwaukee. Additionally, through Ms. Bach's own efforts, updated address information has been received from the City of Glendale, which information Ms. Bach has yet to be able to evaluate for incorporation into the street address database.

Mr. Patterson further reported that the Village of Fox Point and the City of Greenfield had yet to be contacted by project staff, but that efforts to do so and efforts to obtain from them appropriate information needed to keep the address files current would continue.

Mr. Patterson also noted that at the meeting of June 10, 2003, Mr. Bennett had suggested that the City of Franklin could provide the data required to update the MCAMLIS street address coding files for the Franklin area directly to Ms. Bach by electronic transfer and it had been agreed that Mr. Bennett would work with Ms. Bach to effect such a more efficient arrangement. Mr. Patterson reported that although an arrangement had not as yet been effected between the City of Franklin and the County Register of Deeds office, Ms. Bach and Mr. Bennett were in contact and an arrangement should be arrived at soon. In this respect, Mr. Bennett noted that the City street address file did contain individual addresses for housing units contained in condominium and apartment buildings. In answer to questions by Mr. Bennett and Mr. Shaw, Mr. Patterson indicated that such addresses were not presently included in the MCAMLIS street address file for the other 17 suburban units of government within Milwaukee County, that this was a deficiency which had, in the past, been discussed by the Committee; the addresses for individual units in the condominium and apartment buildings within the City of Franklin could and should be incorporated into the MCAMLIS database; and that vacant fields could be provided in the data for the other 17 suburban units of government for the future incorporation of such data.

In answer to a question by Mr. Shaw, Ms. Olson indicated that the City's street address base also contained separate addresses for housing units within multiple unit residential buildings and that at such time that the MCAMLIS data file incorporates the City file, it should be possible to retain these data.

Chairman Bauer suggested, and the Committee concurred, that the staff address a letter of thanks to Ms. Bails for her assistance in this matter with respect to the Village of West Milwaukee and the City of South Milwaukee.

[Secretary's Note: A copy of the letter sent to Ms. Bails is attached to these minutes.]

There being no further questions or comments on the report, it was the consensus of the Committee that the report be placed on file via the minutes of the meeting.

Report by Milwaukee County Register of Deeds Staff on MCAMLIS Cadastral Map and Street Address File Maintenance Operations

Chairman Bauer noted that all Committee members had received copies of maps showing the status of the Milwaukee County cadastral map and street address file maintenance as of June 30, 2003, for review prior to the meeting. He then asked Ms. Kathleen A. Bach, GIS Technician, Milwaukee County Register of Deeds Office, to report on the status of the work concerned.

Ms. Bach briefed the Committee on the status of the work utilizing the two status maps; one relating to the cadastral map file and one relating to the street address database.

There being no questions or comments on the report, it was the consensus of the Committee that the report be placed on file via the minutes of the meeting (copies of status maps attached to these minutes).

Report on Status of License Agreement

Chairman Bauer noted that all members of the Steering Committee had received a copy of a table listing all of the license agreements governing the provision of MCAMLIS base maps and related data to users and the use of such data executed from January 1, 2003, through June 30, 2003, for review prior to the meeting.

There being no questions or comments on the report, it was the consensus of the Committee that the report be placed on file via the minutes of the meeting (copy of table attached to these minutes).

Report on Status of MCAMLIS Cash Flow

Chairman Bauer noted that all members of the Steering Committee had received a copy of a table summarizing the status of the MCAMLIS project cash flow as of May 31, 2003, for review prior to the meeting. He then asked Mr. Lewandowski to review the report with the Committee.

Mr. Lewandowski distributed a revised and updated table summarizing the status of the MCAMLIS project cash flow as of June 30, 2003, and reviewed the table with the Committee.

There being no questions or comments on the report, it was the consensus of the Committee that the report be placed on file via the minutes of the meeting (copy of table setting forth the cash flow status as of June 30, 2003, attached to these minutes).

OLD BUSINESS

Report on Proposed Meeting Between the Milwaukee County Register of Deeds and the City of Milwaukee Assessor to Consider Elimination of Duplicative Work Between the County and City Staffs

Chairman Bauer noted that at the meeting of January 28, 2003, and at the meeting of April 8, 2003, and again at the meeting of June 10, 2003, reference had been made to a Committee request made at the meeting of December 3, 2002, that Ms. Olson arrange a meeting between the Milwaukee County Register of Deeds and the City of Milwaukee Assessor to consider the elimination of work duplication between the County and City staff. At these meetings, it had been the consensus of the Committee that efforts continue to be made to try to arrange such a meeting. At the June 10, 2003, meeting, Mr. Maves, representing Ms. Olson, had indicated that the meeting had not as of that time, been arranged only because of the press of work in the City Assessor's office and that Ms. Olson would continue her efforts to arrange such a meeting in the near future.

Chairman Bauer further noted that the requested meeting had been held, and asked Ms. Olson to brief the Committee on the discussions that had taken place.

Ms. Olson reported that the meeting concerned had been held in the County Courthouse on July 7, 2003, with the following in attendance: Kathy Bach, GIS Technician, Milwaukee County Register of Deeds Office; James Hanna, Deputy City Treasurer; John LaFave, Milwaukee County Register of Deeds; Paul

Mika, Milwaukee County Deputy Register of Deeds; Nancy Olson, City GIS Manager; Thomas Patterson, MCAMLIS Project Manager, Mary Reavy, City Assessor, Carla Rice, Milwaukee County Tax Listing Supervisor; and Peter Weissenfluh, City Chief Assessor.

Ms. Olson indicated she believed everyone present found the meeting to be useful and it had been agreed to reconvene those present to continue the interagency discussion in greater detail. Mr. LaFave agreed, indicating that while no decisions had been arrived at as yet, the hope was that the meetings would result in mutual assistance.

[Secretary's Note: The second meeting of the group concerned has been scheduled to be held on July 22, 2003, at the Municipal Office Building. An agenda for the proposed meeting is attached to these minutes.]

There being no further questions or comments on the report, it was the consensus of the Committee that the report be placed on file via the minutes of the meeting.

Further Consideration of an Amendment to the Milwaukee County Land Records Modernization Plan.

Chairman Bauer noted that the Committee had, at its meeting of June 10, 2003, considered a proposed amendment to the adopted Milwaukee County land records modernization plan. After a lengthy discussion, the Committee had agreed to postpone action on the proposed plan amendment until the next meeting in order to afford an opportunity for Mr. High to review the issues concerned with the Director of the Department of Public Works and, as may be necessary, with the County Executive. Accordingly, Chairman Bauer then asked the Committee to consider further the proposed plan amendment.

Mr. High reported that a series of meetings had been held within County government to consider the issues concerned, including meetings involving the staffs of the County Executive's Office, the County Department of Administrative Services, the Department of Public Works, and the Register of Deeds Office. The meetings had resulted in a consensus that the proposed amendment, as set forth in the "Amendment—Milwaukee County—Update to Land Records Modernization Plan: 1999" dated June 10, 2003, and as considered by the Committee at its meeting held on June 10, 2003, should be adopted by the Committee, including the provisions in the amendment regarding the potential inclusion of future work relating to the Wisconsin "Smart Growth" legislation.

In answer to a question by Ms. Olson, Chairman Bauer indicated that any future proposals to fund work relating to planning, as opposed to land records modernization, would have to be considered and approved by the Steering Committee. He noted that at this time there were no such proposals contained within the MCAMLIS program strategic assessment for the years 2003 through 2006, as approved by the Committee at its meeting held on June 10, 2003.

Mr. Lewandowski indicated that the County had no plans at this time for the use of any MCAMLIS funds for "Smart Growth" related activities; but that the cognizant County officials agreed that it would be desirable for the MCAMLIS program to be in a position to apply for and receive potential state grants that might be made available for "Smart Growth" related planning.

In answer to a question by Mr. High, Mr. Patterson indicated that the additional \$1 document recording fee being retained under current state legislation was to be used not for any "Smart Growth" related planning initiatives, but by the Register of Deeds Office for the specific special purposes listed in the enabling legislation.

Following some additional discussion, on a motion by Mr. High, seconded by Mr. Misun, and carried unanimously, the amendment proposed to the Milwaukee County Land Records Modernization Plan, as set forth in the draft amendment dated June 10, 2003, was approved.

[Secretary's Note: A copy of the letter of transmittal to the Wisconsin Land Information Board and a copy of the approved Amendment is attached to these minutes.]

Consideration of a Proposal to Transfer MCAMLIS Digital Cadastral Maps to a "Seamless Map" Environment

Chairman Bauer noted that all Committee members had, prior to the meeting of June 10, 2003, received a copy of a staff memorandum entitled "Reorganization of the MCAMLIS Digital Cadastral Base Maps into a Continuous Digital Base Map" for review prior to that meeting. The Committee, he said, had initiated consideration of the Memorandum at the June 10, 2003, meeting, but at the specific request of Mr. High, had acted to carry action on this Memorandum over to the next meeting of the Committee. Accordingly, Chairman Bauer then asked the Committee to consider further the Memorandum. He noted that the preparation of this Memorandum had been requested by the Committee at its meeting held on April 8, 2003, and further noted that formal action on this Memorandum would be necessary if the Committee desires the staff to proceed with the recommendations set forth therein. Chairman Bauer then asked Mr. Patterson to review the Memorandum with the Committee

Mr. High reported that cognizant County staff had met to consider the proposal set forth in the Memorandum concerned. He noted that the County was in the process of preparing a County database needs assessment looking toward the deployment of a central County database. Consequently, the County Departments of Administrative Services and Public Works and the County Register of Deeds Office, as represented on this Committee, did ask that action on this matter be deferred until the County completes its database needs assessment. In response to a question by Chairman Bauer, Mr. High indicated that it was hoped that the needs assessment could be completed within a period of about six months.

After some further discussion, on a motion by Mr. High, seconded by Mr. Bennett, and carried unanimously, the staff Memorandum entitled "Reorganization of the MCAMLIS Digital Cadastral Base Maps into a Continuous Digital Base Map" dated May 14, 2003, was tabled with the understanding that the Memorandum would be reconsidered by the Committee at a meeting held in approximately six months (copy of Memorandum attached to these minutes).

Consideration of a Proposal for the Development of a Transactional Map Update Capability for the MCAMLIS Cadastral Map Layer

Chairman Bauer noted that all Committee members had, prior to the meeting of June 10, 2003, received a copy of a staff memorandum entitled "Development of a Transactional Map Update Capability for the MCAMLIS Cadastral Map Layer" for review prior to that meeting. Chairman Bauer noted that due to the press of time, the Committee had acted to hold consideration of this Memorandum over until the next meeting of the Committee. Accordingly, he asked the Committee to now consider the Memorandum. He noted that the preparation of this memorandum had been requested by the Committee at its meeting held on April 8, 2003.

Chairman Bauer noted that, as set forth on page 3, the Memorandum concerned recommends that the development of a transactional digital cadastral map update mechanism not be initiated at this time and that, given the action just taken to postpone the consideration of creation of a seamless map for

approximately six months, it would appear wise for the Committee to do the same with this particular Memorandum.

Mr. Bennett observed that he had totally reversed his opinions with respect to the development of such a transactional capability for the MCAMLIS cadastral maps and now believed that such a procedure was not required at least by the local municipalities. He indicated that he now believed that the municipalities, because of the complexity of the local information systems being developed, would not be able to utilize cadastral map update data provided on a transactional basis, but would find it necessary to update the cadastral maps locally.

Chairman Bauer expressed modest surprise at Mr. Bennett's new position in this matter and asked how the City of Franklin envisioned maintaining its cadastral map base. Mr. Bennett indicated that the City of Franklin was updating its cadastral maps on a parcel-by-parcel basis, incorporating in the update structure outlines taken from plats of surveys required for the issuance of building permits. In answer to a further question by Chairman Bauer, Mr. Bennett indicated that this process required three staff positions within the City government. Chairman Bauer indicated that given Mr. Bennett's position, this issue should be carefully considered when the Memorandum is again brought before the Committee for review and consideration.

Mr. Shaw indicated that better information about changes that have been made on the cadastral base maps should be maintained by the County so that other systems that may wish to do so, can utilize this information. This may require, he said, that MCAMLIS adopt a model for the provision of such information that would be useful to the greatest number of systems in operation within the County.

There being no further questions or comments, on a motion by Ms. Olson, seconded by Mr. High, and carried unanimously, the staff Memorandum entitled "Development of a Transactional Map Update Capability for the MCAMLIS Cadastral Map Layer" dated May 19, 2003, was tabled with the understanding that the Memorandum would be reconsidered by the Committee at a meeting held in approximately six months (copy of Memorandum attached to these minutes).

Consideration of a Proposal for the Extension of the MCAMLIS Street Address Database

Chairman Bauer noted that all Committee members had, prior to the meeting of June 10, 2003, received a copy of a staff memorandum entitled "Extension of the Milwaukee County Street Address Database" for review prior to that meeting. Chairman Bauer noted that due to the press of time, the Committee had acted to hold consideration of this Memorandum over until the next meeting of the Committee. Accordingly, he asked the Committee to now consider the Memorandum. He noted that the integration of the City of Milwaukee and MCAMLIS street address databases was a project specifically called for in the strategic plan for the MCAMLIS program, as adopted by the Committee on October 8, 2002, and further noted that formal action on this Memorandum would be necessary if the Committee desires the staff to proceed with the recommendations set forth therein. He then asked Mr. Patterson to review the memorandum with the Committee.

In answer to a question by Chairman Bauer, Mr. Patterson indicated that the proposed integration of the City of Milwaukee street address data into the MCAMLIS files could, as indicated earlier in the meeting, retain the City's data for individual unit addresses in multiunit residential buildings, and could also, as indicated earlier, integrate similar data for the City of Franklin. Mr. Patterson indicated further that a field would be created in the database for this more detailed data.

In answer to a question by Mr. Bennett, Mr. Patterson indicated that the MCAMLIS database did not presently include data for the geographic area occupied by the City of Milwaukee and that the proposed integration would provide a complete MCAMLIS address file for the entire County.

In answer to a question by Mr. Bennett, Ms Olson indicated that the City did not update its mapped buildings' outlines and that the multi-addresses were assigned to parcels rather than to individual buildings.

In answer to a question by Mr. High, Mr. Patterson indicated that the MCAMLIS street address database was, indeed, utilized, citing requests for the database from, for example, the Milwaukee County Sheriff's Department, the City of Wauwatosa, and the Joint North Shore Communities Fire Department as examples of such use. Mr. Bennett concurred and indicated that the City of Franklin did, indeed, receive requests for the use of the street address database. Chairman Bauer also concurred, indicating that the inclusion of an accurate street address file in any parcel based land information system was essential to achieving the full potential of such a system in any planning area.

After some further discussion, on a motion by Mr. High, seconded by Mr. LaFave, and carried unanimously, the staff Memorandum entitled "Extension of the Milwaukee County Street Address Database" dated May 19, 2003, was tabled with the understanding that the Memorandum would be reconsidered by the Committee at a meeting held in approximately six months (copy of Memorandum attached to these minutes).

Upon adoption of the resolution, Mr. Shaw observed that the Committee had now acted to table three MCAMLIS projects that were formerly considered to be important. He asked, in light of these actions, if it would be appropriate for County staff to brief the Committee on the status of the creation of a central County geodatabase. A brief discussion ensued upon which it was the consensus of the Committee that appropriate County staff should, at a future meeting, brief the Committee on the status of the creation of the central County geodatabase. Chairman Bauer observed that this briefing should be scheduled as a future committee agenda item at such time that the County staff is ready to present a cogent brief. Chairman Bauer indicated further that it would be helpful if the briefing was accompanied by a written Memorandum summarizing the presentation for inclusion in the Committee minutes.

Review of the MCAMLIS Digital Map Copyright and Attendant License Agreement Practices

Chairman Bauer noted that all Committee members had, prior to the meeting of June 10, 2003, received a copy of a staff memorandum entitled "Review of the MCAMLIS Digital Map Copyright and Attendant License Agreement Practices" for review prior to that meeting. Chairman Bauer noted that due to the press of time, the Committee had acted to hold consideration of this Memorandum over until the next meeting of the Committee. Accordingly, he asked the Committee to now consider the Memorandum. Chairman Bauer noted that the preparation of the memorandum had been requested by the Committee at its meeting held on April 8, 2003. He then asked Mr. Patterson to review the memorandum with the Committee.

In answer to a question by Ms. Olson, Mr. Patterson indicated that the Utilities Subcommittee had last met on May 21, 1997. In answer to a further question by Mr. Bennett, Mr. Patterson indicated that the Utilities Subcommittee members did include the Milwaukee Metropolitan Sewerage District.

After some further discussion, on a motion by Mr. Shaw, seconded by Mr. Lewandowski, and carried unanimously, the staff memorandum entitled "Review of the MCAMLIS Digital Map Copyright and

Attendant License Agreement Practices" dated May 20, 2003, was approved (copy of Memorandum attached to these minutes).

NEW BUSINESS

Chairman Bauer indicated that the staff had no new business to bring before the Committee for consideration.

Mr. High then distributed a Memorandum addressed to the Steering Committee from the Milwaukee County Departments of Administrative Services and Public Works and Milwaukee County Register of Deeds Office, dated July 8, 2003 (copy attached to these minutes). The Memorandum requested MCAMLIS funding for the conduct of a County database needs assessment and Mr. High reviewed the Memorandum with the Committee.

In his review, Mr. High noted that the conduct of the needs study was intended to provide the information required by the County departments and offices concerned to properly react to the three MCAMLIS staff Memorandums that had in previous actions been tabled for a period of about six months. He indicated further that the County Department of Public Works intended to retain a consultant to conduct the desired needs assessment.

A lengthy discussion then ensued. In this discussion, in answer to a question by Mr. Bennett, Messrs. Lewandowski and Patterson indicated that the MCAMLIS program did, indeed, have sufficient funding available to fund the proposed needs assessment in calendar year 2003. A substantial part of the discussion concerned the desirable relationship between the County and its constituent municipalities with respect to the creation of comprehensive parcel based land information systems and the need for coordination between various County departments and the County and its constituent municipalities in the creation and maintenance of such systems. In answer to a question by Chairman Bauer, Mr. High indicated that the Department of Public Works would be willing to present the proposed scope and content of the work to the Committee, but for informational purposes only, in that the Department desired to proceed with the study as quickly as possible.

Chairman Bauer observed that, with the exceptions of projects proposed by the County Register of Deeds Office and funded by the special \$1 document recording fee imposed by recent State legislation, the practice of the Steering Committee had been to require contracts to be entered into between the Steering Committee and agencies, such as the Department of Public Works or the Regional Planning Commission for the conduct of approved work programs. He indicated that such an orderly administrative procedure was at least implied when the Milwaukee County Board assigned responsibility for the administration of MCAMLIS funding to the Steering Committee, such administration to be conducted within limits imposed by annual approval of the MCAMLIS budget by the County Board. Mr. Lewandowski indicated that, in the interest of time, the County Departments and Offices did not want to pursue this past practice in the case of this proposed project. Mr. Shaw indicated he could concur in the proposed departure from past practice in the interest of time.

After some further discussion, on a motion by Mr. High, seconded by Mr. Shaw, and carried unanimously, the Committee approved the provision of up to \$45,000 of MCAMLIS funding to conduct a County database needs assessment for the scope and content of that assessment; the scope and content of that assessment to be defined by the Milwaukee County Department of Public Works.

There was no other new business brought before the Committee.

CORRESPONDENCE

Chairman Bauer noted that there was no correspondence to be brought before the Committee.

DATE, TIME, AND PLACE OF NEXT MEETING

Chairman Bauer then asked the Committee to consider the date, time, and place for the next Committee meeting. After some brief discussion, it was determined that the next meeting of the Steering Committee should be scheduled to be held on November 18, 2003, at 9:00 A.M., in Room 203-P.

ADJOURNMENT

There being no further business to come before the Steering Committee, on a motion by Mr. Shaw, seconded by Mr. High, and carried unanimously, the meeting adjourned at 11:00 A.M.

Respectfully submitted,

Thomas D. Patterson
MCAMLIS Project Manager

**STATUS OF MCAMLIS MAPPING PROJECTS
BEING CARRIED OUT BY CITY OF MILWAUKEE STAFF**

The City of Milwaukee recompilation project is comprised of 40 U.S. Public Land Survey one-quarter section-based maps as delineated on the accompanying status map. These cadastral maps were compiled to fit the MCAMLIS survey control system utilizing original land records and associated descriptions and documents. This work has been carried out by the staff of the City of Milwaukee, Infrastructure Service Division, Central Drafting and Records Office. This project was completed November 30, 2001.

The City of Milwaukee cadastral map transformation project (Phase 1) consists of 93 U.S. Public Land Survey one-quarter-section-based existing City of Milwaukee maps that are being refit to the MCAMLIS survey control system utilizing computer algorithms. These 93 one-quarter section maps are delineated on an accompanying status map. This work is being carried out by the staff of the City of Milwaukee, Department of Administration, Information and Technology Management Division. All 93 of the map sheets have been accepted by SEWRPC staff as meeting the relevant specifications. The agreement governing this project calls for work to be completed by October, 2002. This project was completed February 25, 2003. On April 28, 2003 an addendum revised the project to include an additional 6 map sheets. This addendum calls for the work to be completed by December 31, 2003. As of June 24, 2003, City of Milwaukee GIS staff have completed 0 of these map sheets of which 0 have been accepted.

The City of Milwaukee cadastral map transformation project (Phase 2) consists of 24 U.S. Public Land Survey one-quarter-section-based maps as delineated on an accompanying status map. All 24 of the map sheets have been accepted as being in compliance with the specifications in this project area. The agreement governing this project calls for work to be completed by June 2002. This project was completed February 14, 2002.

The City of Milwaukee cadastral map transformation project (Phase 3) also consists of 24 U.S. Public Land Survey one-quarter-section-based maps again as delineated on an accompanying status map. All 24 map sheets have been accepted as being in compliance with the specifications. The agreement governing this project calls for work to be completed by June 2002. This project was completed February 14, 2002.

The City of Milwaukee cadastral map transformation project (Phase 4) also consists of 24 U.S. Public Land Survey one-quarter-section-based maps again as delineated on an accompanying status map. All 24 map sheets have been accepted as being in compliance with the specifications. The agreement governing this project calls for work to be completed by December 2002. This project was completed February 15, 2003. On April 23, 2003 an addendum revised the project to include an additional 6 map sheets. This addendum calls for the work to be completed by June 30, 2003. This project was completed June 18, 2003.

The City of Milwaukee cadastral map transformation project (Phase 5) also consists of 24 U.S. Public Land Survey one-quarter-section-based maps again as delineated on an accompanying status map. The agreement governing this project calls for work to be completed by December 2002. This project was completed January 3, 2003. On April 25, 2003 an addendum revised the project to include an additional 6 map sheets. This addendum calls for the work to be completed by June 30, 2003. As of June 24, 2003, City of Milwaukee GIS staff have completed 6 of these map sheets of which 0 have been accepted.

The City of Milwaukee cadastral map transformation project (Phase 6) consists of 26 U.S. Public Land Survey one-quarter-section-based maps again as delineated on an accompanying status map. As of June 24, 2003, 26 maps from this project area have been submitted to SEWRPC staff for review and accordingly, 26 maps sheets have been accepted as being in compliance with the specifications. The agreement governing this project calls for work to be completed by December 2003. There is currently no reason to expect that the project completion schedule will not be met. On April 30, 2003 an addendum revised the project to include an additional 6 map sheets. This addendum calls for the work to be completed by December 31, 2003. As of June 24, 2003, City of Milwaukee GIS staff have completed 0 of these map sheets of which 0 have been accepted.

The City of Milwaukee cadastral map transformation project (Phase 7) consists of 24 U.S. Public Land Survey one-quarter-section-based maps again as delineated on an accompanying status map. As of June 24, 2003, 15 maps from this project area have been submitted to SEWRPC staff for review and accordingly, 15 maps sheets have been accepted as being in compliance with the specifications. The agreement governing this project calls for work to be completed by April 2004. There is currently no reason to expect that the project completion schedule will not be met.

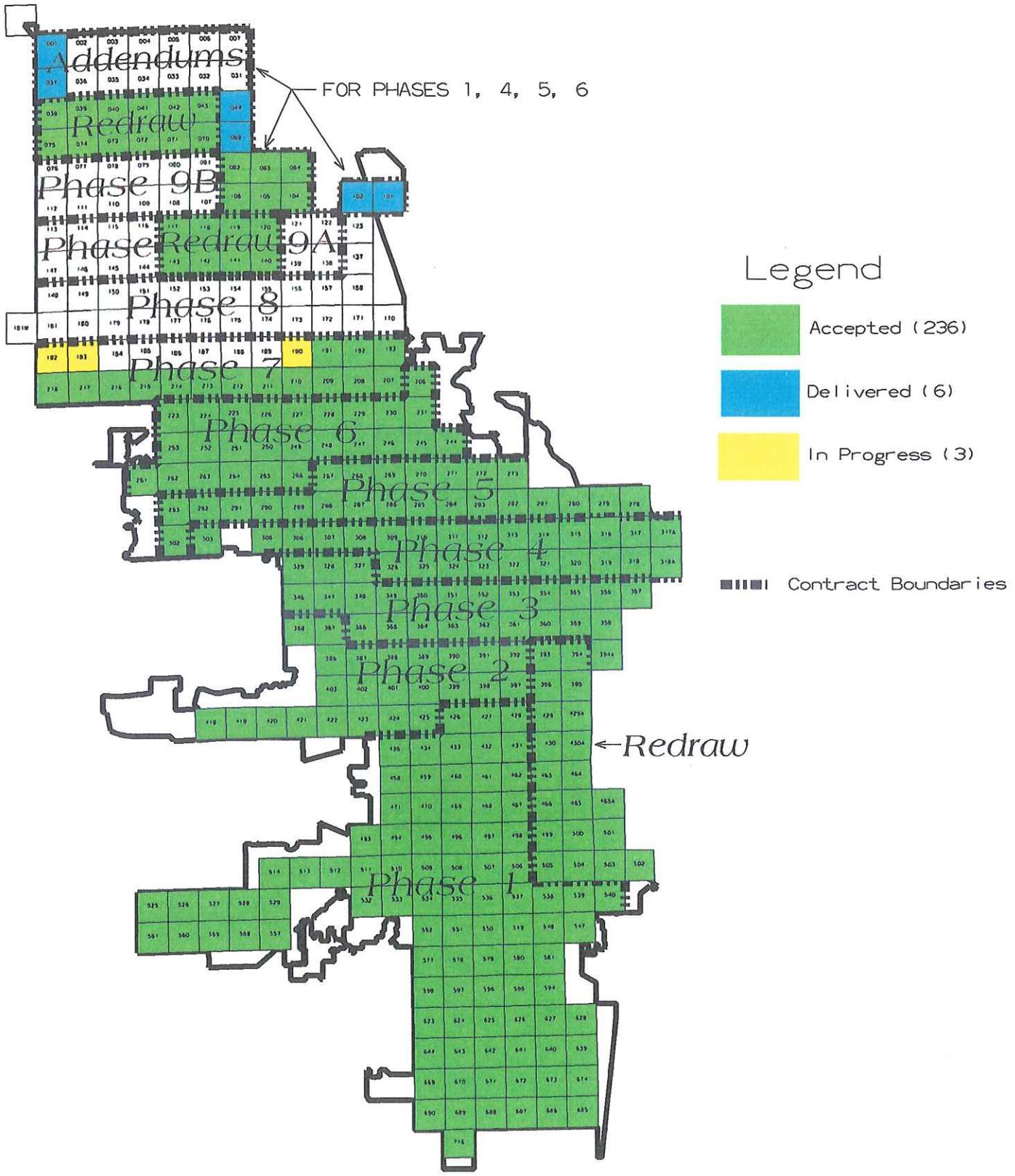
The City of Milwaukee cadastral map transformation project (Phase 8) consists of 25 U.S. Public Land Survey one-quarter-section-based maps again as delineated on an accompanying status map. As of June 24, 2003, 0 maps from this project area have been submitted to SEWRPC staff for review and accordingly, 0 maps sheets have been accepted as being in compliance with the specifications. The agreement governing this project calls for work to be completed by October 2004. There is currently no reason to expect that the project completion schedule will not be met.

The City of Milwaukee cadastral map transformation project (Phase 9A) consists of 12 U.S. Public Land Survey one-quarter-section-based maps again as delineated on an accompanying status map. As of June 24, 2003, 0 maps from this project area have been submitted to SEWRPC staff for review and accordingly, 0 maps sheets have been accepted as being in compliance with the specifications. The agreement governing this project calls for work to be completed by October 2004. There is currently no reason to expect that the project completion schedule will not be met.

The City of Milwaukee cadastral map transformation project (Phase 9B) consists of 12 U.S. Public Land Survey one-quarter-section-based maps again as delineated on an accompanying status map. As of June 24, 2003, 0 maps from this project area have been submitted to SEWRPC staff for review and accordingly, 0 maps sheets have been accepted as being in compliance with the specifications. The agreement governing this project calls for work to be completed by October 2004. There is currently no reason to expect that the project completion schedule will not be met.

* * *

MCAMLIS Transformation Project Progress Map



COPY

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

c/o Southeastern Wisconsin Regional Planning Commission
W239 N1812 Rockwood Drive, P.O. Box 1607
Waukesha, Wisconsin 53187-1607
(262) 547-6721

August 4, 2003

Ms. Alissa A. Bails, AICP
GIS Division Manager
R.A. Smith & Associates, Inc.
16745 W. Bluemound Road
Brookfield, WI 53005-5938

Dear Ms. Bails:

On behalf of the Milwaukee County Automated Mapping and Land Information System (MCAMLIS) Steering Committee and the MCAMLIS project staff, I would like to thank you for your recent assistance to the project staff in acquiring current street address information for the City of South Milwaukee and the Village of West Milwaukee, municipalities for which your firm serves as the City Engineer and Village Engineer, respectively. Your assistance in this regard is appreciated even more in light of the fact that this effort was provided on your own initiative, you being under no obligation to provide assistance to the project staff in this matter.

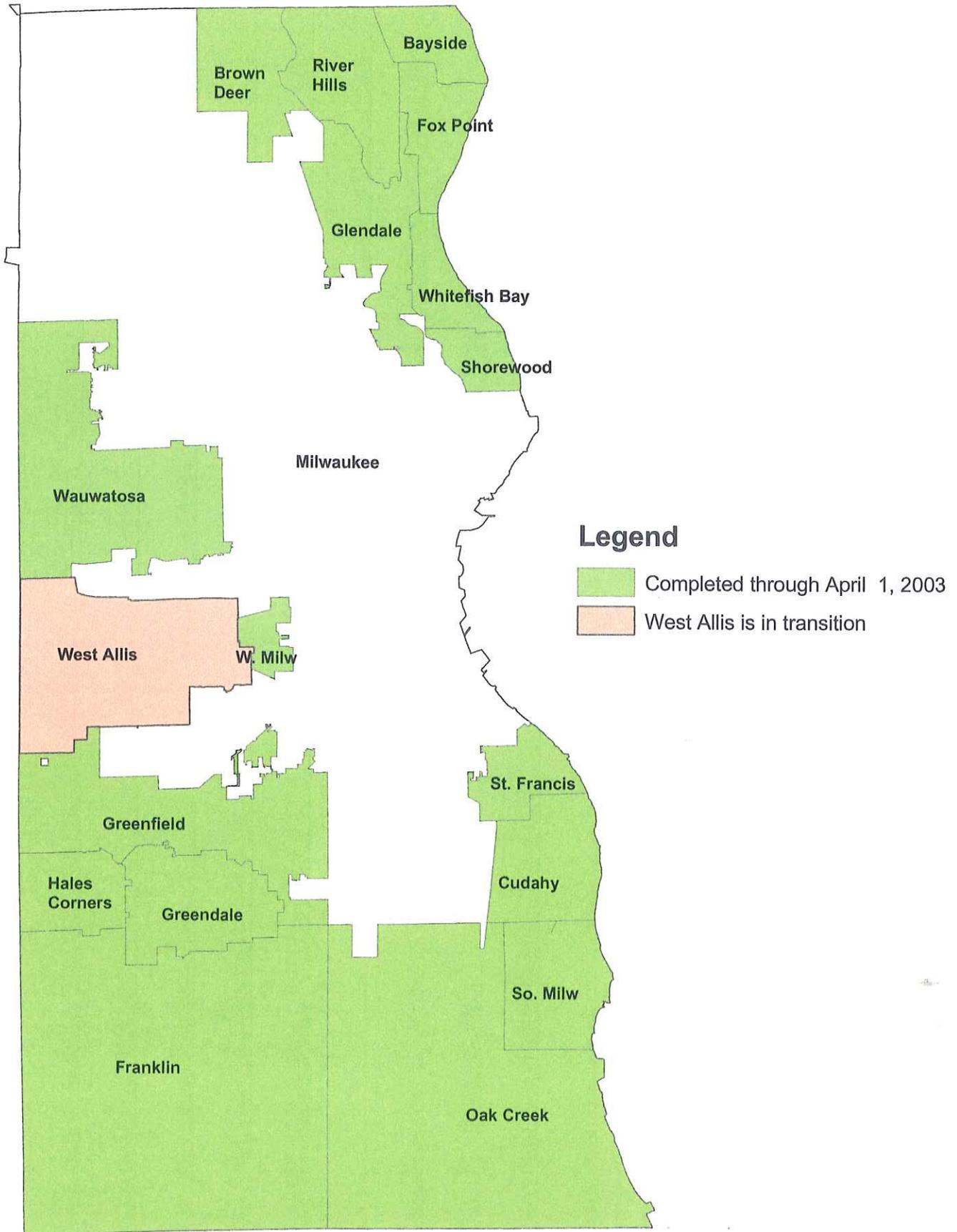
Again, thank you very much for your assistance in securing this needed information.

Sincerely,

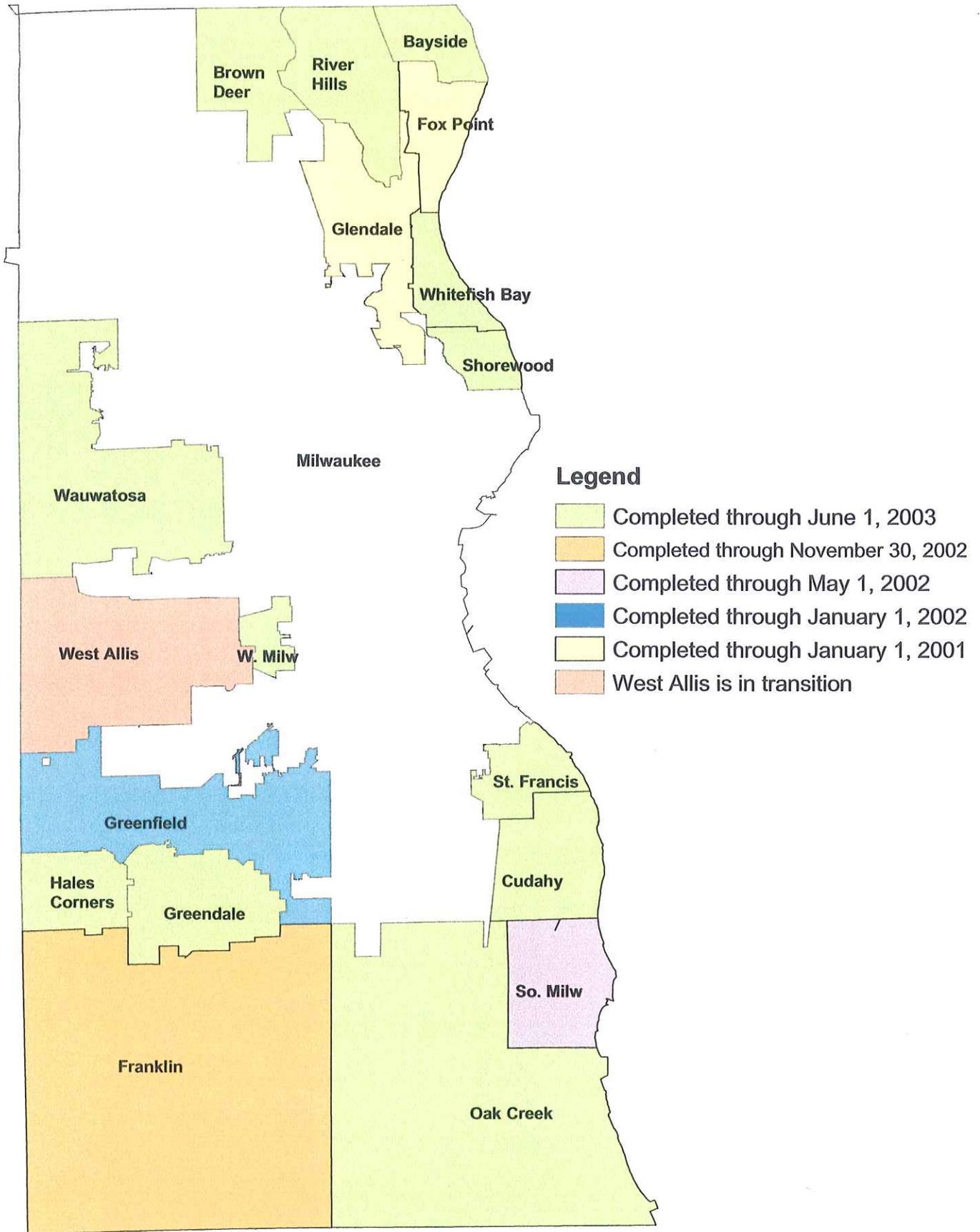
Thomas D. Patterson
MCAMLIS Project Manager

TDP/mlh
#85326 v1 - bails ltr-rasmith thank you

Milwaukee County Cadastral Status as of June 27, 2003



Milwaukee County Address Status as of June 27, 2003



EXECUTED LICENSE AGREEMENTS

Number of Executed Agreements		Licensee	Effective Date
Since 1995	For 2003	2003	
90.	1.	North Shore Fire Department	1/13/03
91.	2	Planning & Design Institute, Inc.	2/6/03
92.	3.	Nancy M. Aten	2/12/03
93.	4.	Graef, Anhalt, Schloemer and Associates, Inc.	4/2/03
94.	5.	Sandridge Commercial Real Estate, LLC	4/25/03

#58437 v1 - MCAMLIS-EXECUTED LIC. AGREEMNTS

	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	6/30/2003	TOTAL
	Actual	Actual	Actual	Actual	Actual	Actual	Actual	Actual	Actual	Actual	Actual	Actual	Actual	Actual	
Beginning Period Reserve-January 1	0	283,340	495,922	573,049	295,130	1,060,413	1,310,646	1,274,859	1,082,318	1,125,752	1,108,688	564,460	183,752	-141,197	-141,197
Mid-Year Reserve Changes	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Current Period Reserve	0	283,340	495,922	573,049	295,130	1,060,413	1,310,646	1,274,859	1,082,318	1,125,752	1,108,688	564,460	183,752	-141,197	-141,197
Recording Fees (\$4.00 Portion)	101,886	324,983	612,592	676,093	647,355	503,342	574,328	644,508	769,820	773,078	609,683	743,977	230,597	138,594	8,451,495
Recording Fees (\$1.00 Portion)	0	0	0	150,000	200,000	165,000	138,500	55,300	139,226	152,270	103,895	325,997	197,979	167,680	1,795,847
State Grants	312,000	312,000	312,000	312,000	312,000	0	0	50,000	50,000	50,000	170,000	0	0	0	1,560,000
Private Utility Contributions	0	0	0	50,000	50,000	50,000	50,000	50,000	50,000	50,000	0	0	0	0	520,000
MWSD Contribution	413,886	636,983	924,592	1,188,093	1,209,355	718,342	762,828	749,808	959,046	975,348	883,578	1,142,942	1,346,588	858,112	12,769,501
Annual Revenue	413,886	636,983	924,592	1,188,093	1,209,355	718,342	762,828	749,808	959,046	975,348	883,578	1,142,942	1,346,588	858,112	12,769,501
TOTAL FUNDS AVAILABLE	413,886	920,323	1,420,514	1,761,142	1,504,485	1,778,755	2,073,474	2,024,667	2,041,364	2,101,100	1,992,266	1,707,402	1,530,340	716,915	12,628,304
Additional Encumbrance	100,000	22,075	534,849	272,943	-900,864	112,067	308,902	367,776	361,580	386,754	586,545	737,559	577,619	618,087	4,085,892
Legal Fees	0	350	600	0	0	0	0	0	0	0	0	0	0	0	950
Systems Consulting (UGC)	0	128,638	0	0	0	0	0	0	0	0	0	0	0	0	128,638
USPLS Remonumentation	0	41,260	0	0	0	0	0	0	0	0	0	0	0	0	41,260
Horizontal/Vertical Control Surveys	0	144,443	0	0	0	0	0	0	0	0	0	0	0	0	144,443
Aerial Photos/Mapping	21,555	17,925	292,060	1,178,794	1,340,370	356,953	490,821	576,268	556,108	608,450	842,594	787,620	1,095,708	388,877	8,554,102
Project Facilitator	8,991	73,567	21,650	14,995	0	0	0	0	0	0	0	0	0	0	119,203
Conference	0	59	1,046	319	0	0	528	0	0	0	0	0	0	0	1,953
Project Conversion Costs	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SEWRPC Staff and Training	0	0	0	0	6,291	797	0	0	0	0	0	0	0	0	0
Computer Hardware/Software	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ROD Materials Copied	0	0	0	0	0	0	0	0	0	0	0	0	0	0	7,088
Computer Maintenance	0	0	0	0	0	0	26	0	0	0	0	0	0	0	26
Computer/Office Supplies	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Rent and Utilities	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Database Maintenance and Updates	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Contractual Crosscharges	40	554	13	0	0	0	3	5	0	0	343	0	442	0	1,399
Charges Paid By Other Departments	0	-4,470	-2,752	-1,040	-1,724	-1,708	-1,664	-1,700	-2,116	-2,792	-1,676	-1,529	-2,232	-870	-26,273
Miscellaneous	0	0	0	0	0	0	0	0	40	0	0	0	0	0	40
Annual Expenditures	30,586	402,326	312,616	1,193,069	1,344,936	356,042	489,713	574,573	554,032	605,658	841,261	786,091	1,093,918	388,007	8,972,829
TOTAL EXPS / ENCUMBRANCES	130,586	424,401	847,466	1,466,012	444,072	468,109	798,615	942,349	915,612	992,412	1,427,806	1,523,650	1,671,537	1,006,094	13,058,721
NET AVAIL FUNDS (END RESERVE)	283,300	495,922	573,049	295,130	1,060,413	1,310,646	1,274,859	1,082,318	1,125,752	1,108,688	564,460	183,752	-141,197	-289,179	-430,417

i. 1994 was the final year for this revenue source.
 2. \$50,000 will be paid each year through 2002, and \$20,000 in 2003.

City of Milwaukee and Milwaukee County Cooperative Research

7/22/03
2:00 PM to 3:30 PM
809 N. Broadway
4th Floor Conference Room

Facilitator: Nancy A. Olson

Attendees:
Mary Reavy – City of Milwaukee Assessor
Peter Weissenfluh – Chief Assessor, City of Milwaukee
David Fortney – Assessment Systems Analyst, City of Milwaukee
Nancy A. Olson – GIS Manager, City of Milwaukee
John LaFave – County Register of Deeds, Milwaukee County
Carla Rice – Tax Listing Supervisor, Milwaukee County
Kathy Bach – GIS Technician, Milwaukee County

Agenda

Outline Existing Process of tax listing and mapping at the County for Suburban Communities	Carla Rice	20
Outline Existing Process of tax listing and mapping at the County for City of Milwaukee transactions	Carla Rice	15
Outline Existing Process of tax listing and mapping at the City of Milwaukee	David Fortney and Nancy Olson	20
Compare Similarities	All	10
Compare Differences	All	10
Can we identify tasks that can be streamlined?	All	10
Agenda and next meeting date/time/place?	All	5

Additional Information

I thought that we would walk thru (and document) the processes at both the County and City for a typical tax listing transaction. That will create a basic understanding for all attending. From there, we can determine if there are individual issues/items we should discuss centralizing or streamlining and how the maps will be maintained.

If anyone has additional ideas or topics to include on the agenda please let me know.

COPY

MILWAUKEE COUNTY AUTOMATED MAPPING AND LAND INFORMATION SYSTEM STEERING COMMITTEE

c/o Southeastern Wisconsin Regional Planning Commission
W239 N1812 Rockwood Drive, P.O. Box 1607
Waukesha, Wisconsin 53187-1607
(262) 547-6721

August 4, 2003

Mr. Ted W. Koch, Chair
Wisconsin Land Information Board
c/o University of Wisconsin-Madison
Science Hall, Room 160
550 N. Park Street
Madison, WI 53706

Mr. J. Michael Blaska, Director
Office of Land Information Services
Department of Administration
P.O. Box 1645
Madison, WI 53701-1645

Dear Sirs:

On behalf of the Milwaukee County Automated Mapping and Land Information System (MCAMLIS) Steering Committee and on behalf of the Milwaukee County Land Information Officer, Mr. John LaFave, please find enclosed herewith a copy of an Amendment to the "Milwaukee County Update to Land Records Modernization Plan: 1999." This amendment was approved by the MCAMLIS Steering Committee at its meeting held on July 15, 2003.

We trust that, as may be necessary, the Wisconsin Land Information Board will be able to take positive action on the enclosed Amendment. Should you have any questions or comments in this regard, please do not hesitate to contact us.

Sincerely,

Thomas D. Patterson
MCAMLIS Project Manager

TDP/mlh
#85328 v1 - Koch & Blaska ltr

cc: Mr. Kurt W. Bauer, Chairman, MCAMLIS Steering Committee
Mr. John LaFave, Milwaukee County Land Information Officer (with Amendment)

#83308 v1 - LRMP UPDATES

AMENDMENT

MILWAUKEE COUNTY

UPDATE TO LAND RECORDS MODERNIZATION PLAN: 1999

**Adopted by the Milwaukee County Automated Mapping and
Land Information System (MCAMLIS) Steering Committee
July 15, 2003**

I. EXECUTIVE SUMMARY

A. Identification and Contact Information

Is replaced in its entirety as follows:

Mr. John LaFave
Milwaukee County Land Information Officer
Milwaukee County Courthouse
901 N. 9th Street
Milwaukee, WI 53233
Telephone: 414-278-4021
Fax: 414-223-1257
Electronic Mail Address: jlafave@milwcnty.com

II. UPDATED LAND INFORMATION MODERNIZATION AND INTEGRATION PLAN

A. Goals and Objectives

Is expanded to include two additional goals as follows:

13. Identify, initiate, and complete projects that will utilize the \$1.00 of each \$5.00 of the fees retained locally to develop and maintain a computerized indexing of the County land information records related to housing in a manner that would allow for greater public access.
14. Where appropriate, and in those areas of subject content overlap between the Wisconsin "Smart Growth" legislation and the Wisconsin Land Information Program, identify, initiate, and complete projects proposed by Milwaukee County or its constituent municipalities which would prepare information and maps useful for meeting the "Smart Growth" requirements of state legislation, thereby serving the needs of the County and its municipalities and contributing toward the implementation of both "Smart Growth" and the Wisconsin Land Information Program.

II. UPDATED LAND INFORMATION MODERNIZATION AND INTEGRATION PLAN

C. New Initiatives

Is expanded to include two additional initiatives, as follows:

13. Identify, initiate, and complete projects that will utilize the \$1.00 of each \$5.00 of the fees retained locally to develop and maintain a computerized indexing of the County land information records related to housing in a manner that would allow for greater public access.

The Milwaukee County Land Information Officer, who is also the Milwaukee County Register of Deeds, will be asked to develop a list of projects in keeping with the spirit and requirements of s.66.1001(2)(b) of the *Wisconsin* Statutes for the development and maintenance of a computerized indexing of the County's land information records relating to housing in a manner that would allow for greater public access. Such projects may include the acquisition of specialized computer hardware to accomplish the digital conversion of oversized maps and records and the modernization of both the hardware and software currently utilized by the Register of Deeds Office to carry out the optical imaging of land records related documents. Additional projects, such as the automation of tax lien records and the recording of mortgage satisfactions and similar types of documents that would serve to automate existing hardcopy County records related to housing identified under the "Guidelines for the Use of the Additional \$1.00 Retained by the County" as promulgated by the Office of Land Information Services, Wisconsin Department of Administration, may also be undertaken as determined to be appropriate and useful.

14. Where appropriate, and in those areas of subject content overlap between the Wisconsin "Smart Growth" legislation and the Wisconsin Land Information Program, identify, initiate, and complete projects proposed by Milwaukee County or its constituent municipalities which would prepare information and maps useful for meeting the "Smart Growth" requirements of state legislation, thereby serving the needs of the County and its municipalities and contributing toward the implementation of both "Smart Growth" and the Wisconsin Land Information Program.

In 1999 the Wisconsin Legislature enacted new legislation that greatly expanded the scope and significance of comprehensive plans within the State. The legislation, often referred to as the "Smart Growth" law provides a new framework for the development, adoption, and implementation of comprehensive plans by regional planning commissions and by county, city, village, and town units of government.

The law requires that the following nine elements be addressed in a comprehensive plan:

- Issues and Opportunities
- Housing
- Transportation
- Utilities and Community Facilities
- Agricultural, Natural, and Cultural Resources
- Economic Development
- Intergovernmental cooperation
- Land Use
- Implementation

#82977 v1 - MCAMLIS MEMO-RETILING BASE MAPS
TDP/wb/mlh
5/20/03

MEMORANDUM

TO: MCAMLIS Steering Committee

FROM: MCAMLIS Project Staff

DATE: May 14, 2003

SUBJECT: **REORGANIZATION OF THE MCAMLIS DIGITAL CADASTRAL BASE MAPS INTO A CONTINUOUS DIGITAL BASE MAP**

BACKGROUND

On several occasions the MCAMLIS Steering Committee has debated the merits of changing the organizational format for MCAMLIS digital base maps from the current U.S. Public Land Survey one-quarter section based digital maps to digital "tiles" of greater areal extent, perhaps as large as the entire County. To date, the Steering Committee has not taken action to initiate such a work task. However, the recently completed MCAMLIS Land and Utility Information System Internet Prototype Study recommended that this work be undertaken. At its meeting held on April 8, 2003, the Steering Committee requested that project staff prepare a staff memorandum describing a project to undertake this work task. This Memorandum sets forth the need for the development of such a tiling system, describes in basic form the work tasks that would need to be undertaken to accomplish this goal, estimates the cost for carrying out this work effort, and provides specific recommendations for a course of action.

THE NEED FOR A CHANGE IN THE ORGANIZATIONAL SCHEME FOR MCAMLIS DIGITAL BASE MAPS

The MCAMLIS digital cadastral base maps have, from the inception of the MCAMLIS project, been organized as U.S. Public Land Survey one-quarter section based maps. Approximately 1,000 of these digital cadastral base maps are needed to cover Milwaukee County in its entirety.

In conducting the MCAMLIS Land and Utility Information System Internet Prototype Study, the consultant retained to carry out the study distributed a questionnaire to the staffs of municipal units of government in Milwaukee County in order to determine the manner in which these units of government made use of the various MCAMLIS products and to solicit staff opinions as to how these products might be made more useful for their work. Of the 15 municipalities responding, 11 indicated that they had already reorganized the MCAMLIS digital cadastral maps into municipality-wide, continuous digital map files. An additional three municipalities responded that they would like either to complete this operation for themselves or to have the MCAMLIS project develop such a continuous map product.

The City of Milwaukee represents a major exception to this trend, having indicated that the City staff expects to continue to operate in a digital map sheet environment with the map sheets referenced to the U.S. Public Land Survey one-quarter section. Therefore, while the desire is not universal, there does appear to be interest on the part of Milwaukee County municipalities for the development of digital cadastral maps based on an areal unit larger than the U.S. Public Land Survey one-quarter section.

Among the entities whose jurisdictions extend to or beyond the Milwaukee County boundary, the creation of a single continuous digital cadastral base map may be expected to result in a decrease in data storage and file management requirements for these entities. WE Energies already operates in a continuous map environment, and a plan prepared for Milwaukee County envisions the implementation of continuous mapping.¹

DESCRIPTION OF WORK EFFORT

To create a digital cadastral base map for an area larger than the U.S. Public Land Survey one-quarter section requires what can be probably best described as assembling adjacent maps until a map of the desired areal extent is obtained. Given the manner in which the MCAMLIS cadastral maps are currently organized, the general requirements of this assembly effort would entail the following three principal tasks:

1. The removal of redundant and duplicate text and line features; principally along the common edges of adjoining maps.
2. The repositioning of text labels, where needed, to make them more legible and recognizable; again principally along the common edges of adjoining maps.
3. The recreation of whole parcel polygons where parcels extend across section and one-quarter section lines.

Additionally, while not a necessary step in the creation of a continuous map, the consultant who completed the MCAMLIS Land and Utility Information System Internet Prototype Study recommended that the following task be carried out in conjunction with the creation of a continuous digital cadastral map.²

4. The organization of the bounding lines of civil divisions, land subdivision and condominium plats and certified survey maps as closed polygons.

Completion of the four tasks set forth above would result in the creation of a single continuous digital cadastral base map for Milwaukee County. The map would be completed in ArcInfo format consistent with the format of the current individual MCAMLIS digital cadastral base maps.

Additional tasks which would need to be undertaken as part of this work effort are as follows:

¹Milwaukee County Public Works and Parks GIS Conceptual Design and Implementation Plan, Plan Graphics, Inc., and Abernathy Consulting, June 2001.

²MCAMLIS Land and Utility Information System Internet Prototype Study, Ruekert & Mielke, Inc., Report No. 3, p. 65.

5. The definition of the geographic extent of continuous map coverage for individual municipalities. This task would need to be carried out in consultation with the cognizant staff of each affected municipality. This consultation is proposed to consist of personal interviews and communications with the staffs of the municipalities who desire to operate in a continuous map environment.
6. The development of an automated procedure for "cutting out" individual municipal continuous maps. This capability would be necessary to deal with map replacement, update, and maintenance operations.
7. The development of procedures to generate MicroStation DGN and AutoCAD DWG formats from the ArcInfo coverages that would constitute the basic MCAMLIS digital cadastral map. This capability would be needed to accommodate those municipalities and other organizations that operate in these alternate software environments.
8. Creation of an automated procedure to "cut out" individual one-quarter-section based map sheets. This capability will be needed to support those municipalities, individuals, and organizations that may choose to continue to carry out their functions in this type of environment and to deal with digital map requests from architects, landscape architects, engineers, planners, surveyors, land developers, and others involved in site planning work.
9. Evaluate the potential impact of the change in digital cadastral map organizational schemes on the cadastral map maintenance function in the Register of Deeds Office.

The estimated size of a county-wide continuous digital cadastral map in ArcInfo coverage format is approximately two gigabytes. While a file of this size can be accommodated with ArcInfo software, a translation of a file of this size into either MicroStation DGN format or AutoCAD 2000 DWG format would yield file sizes that exceed the capacities of these two software environments. This fact will have the greatest impact on current and potential users wanting to use a continuous county coverage in either of these software environments. Alternative operational procedures, such as sectioning the county into smaller continuous maps, may need to be developed by these users. Such impacts cannot be assessed in advance of the creation of the files. As these two software systems continue to evolve and new versions are released, it is reasonable to expect that these maximum file size limitations will change. While the project staff will attempt to assess these impacts during the course of the project, no specific work steps or costs have been included in the project description for specifically dealing with these impacts.

ESTIMATED COST

The MCAMLIS Land and Utility Information System Internet Prototype Study provided a cost estimate of \$45,000 for the creation of a single countywide digital cadastral map in ArcInfo coverage format (tasks 1, 2, and 3 in the preceding section) and a cost estimate of \$5,000 for the development of an automated procedure for "cutting out" individual municipal continuous maps (task 6 in the preceding section). Cost estimates for the remaining tasks were not contained within the MCAMLIS Land and Utility Information System Internet Prototype Study, so were developed instead by project staff.

The estimated costs for conducting this project, developed by project staff, are as follows:

1. The removal of redundant and duplicate text and line features; the repositioning of text labels; and the recreation of whole parcel polygons along section and one-quarter section lines \$45,000

2.	The organization of the boundary lines of land subdivisions and condominium plots and certified survey maps and civil divisions as closed polygons.....	\$ 5,500
3.	The definition of continuous map "extents" for individual municipalities.....	\$ 5,000
4.	The development of an automated procedure for "cutting out" individual municipal continuous maps	\$ 5,000
5.	The development of automated procedures to generate MicroStation DGN and AutoCAD DWG formats from the ArcInfo coverages comprising the MCAMLIS continuous digital cadastral map.....	\$ 5,000
6.	The development of an automated procedure to "cut out" individual one-quarter section based map sheets	\$15,000
7.	Evaluation of the impact of the change to a continuous map organizational scheme on the cadastral map maintenance function in the Register of Deeds Office	\$ 4,000
	Total	<u>\$84,500</u>

MCAMLIS project staff believe that the project herein described could be completed within approximately 12 months following project initiation. As a practical matter, however, the last of the MCAMLIS format City of Milwaukee transformed cadastral maps are not scheduled for completion until the end of 2004. Accordingly, this project could not be completed until sometime during the first calendar quarter of 2005.

RECOMMENDATIONS

Based upon the project staff assessment of this issue, the following recommendations are made to the MCAMLIS Steering Committee:

- It is recommended that the Steering Committee authorize the initiation of the project described herein.
- It is recommended that the Steering Committee authorize the expenditure of \$84,500 from MCAMLIS project funds to carry out the project.
- It is recommended that the project staff be directed to secure the execution of an agreement between the Steering Committee and the Southeastern Wisconsin Regional Planning Commission to complete the project.

In the event that the Steering Committee determines to proceed in the recommended manner set forth herein, a proposed Agreement between the MCAMLIS Steering Committee and the Southeastern Wisconsin Regional Planning Commission is attached hereto for Steering Committee consideration.

AGREEMENT

THIS AGREEMENT, entered into this ____ day of _____, 2003, 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 (MCAMLIS) Steering Committee (hereinafter referred to as the "Steering Committee").

WITNESSETH:

WHEREAS, the Commission is authorized by Section 66.0309 of the Wisconsin Statutes to make studies and prepare plans for, and to provide advisory services to local governments, and to act as a coordinating agency for planning activities within its jurisdictional area; and

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 is 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 authorized the execution of a Cooperative Agreement between Milwaukee County and the public and private utilities serving Milwaukee County, which Cooperative Agreement created a public-private partnership to implement the proposed Milwaukee County automated mapping and land information system, whereby the County and the utilities involved agreed to jointly fund the development of the Milwaukee County automated mapping and land information system; and

WHEREAS, the aforementioned Cooperative Agreement further created a Steering Committee to provide oversight in the implementation of the Milwaukee County automated mapping and land information system and delegated to the 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 July 29, 1991, formally requested the Commission to accept the responsibilities of Project Manager of the Milwaukee County automated mapping and land information system; and

WHEREAS, the Executive Committee of the Commission on August 21, 1991, authorized Commission assistance in execution of the work required to implement the Milwaukee County automated mapping and land information system in the manner envisioned in the aforereferenced Commission report; 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 Services

The Commission will reorganize approximately 1,000 individual MCAMLIS digital cadastral maps into a single, continuous digital cadastral map covering all of Milwaukee County. The map content will be merged and edited along the common edges of adjoining maps to remove redundant and duplicate text and line features; reposition text labels where required to render them legible; establish correct topology for real property parcel polygons where these parcels cross map sheet boundaries; and establish topology for the closed polygons representing municipal boundaries, land subdivision and condominium plats, and certified survey maps. The continuous digital cadastral map will be created as an ESRI ArcInfo format "coverage."

Further, the Commission will define, in consultation with individual Milwaukee County municipalities, continuous map extents for these individual municipalities and develop automated procedures for "cutting out" individual municipal continuous maps.

Further, the Commission will develop procedures for the automated conversion of the countywide ArcInfo format digital cadastral map, or subsets thereof, to MicroStation DGN and AutoCad DWG formats and will develop automated procedures to "cut out" individual one-quarter section based map sheets for plotting of hard copy cadastral maps.

Finally, the Commission will evaluate the impact of the change from an individual map sheet organizational scheme to a continuous map organizational scheme on the cadastral map maintenance function in the Milwaukee County Register of Deeds Office and will report the findings of the evaluation to the Steering Committee.

The Commission will complete these tasks through a combination of its own staff resources and the retention of a qualified firm or firms.

II. Compensation

The Steering Committee shall pay to the Commission the sum of \$84,500 as full payment for the services described in Section I.

III. Method of Compensation

The Commission shall submit invoices to the Steering Committee during the progress of the work for partial payment on account for work completed to date. The Steering Committee shall pay to the Commission the amounts shown on the invoices upon receipt of said invoices.

IV. Timing

The work to be performed under this Agreement shall be completed no later than March 31, 2005.

V. 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.

VI. 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 Wisconsin 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.

VII. Records and Audits

The Commission shall allow Milwaukee County, the Milwaukee County Department of Audit, or any other party the 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 the Milwaukee County aforementioned audit information for no less than three years after the conclusion of each contract term.

VIII. Independent Contractor

Nothing contained in this 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.

IX. Authorization

The Steering Committee approved the project that is the subject of this Agreement by action taken at a regular meeting held on June 10, 2003.

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

ATTESTING WITNESS

**SOUTHEASTERN WISCONSIN
REGIONAL PLANNING COMMISSION**

By _____
Philip C. Evenson
Deputy Secretary

By _____
Thomas H. Buestrin
Chairman

ATTESTING WITNESS

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

By _____
Thomas D. Patterson
MCAMLIS Project Manager

By _____
Kurt W. Bauer
Chairman

APPROVED AS TO FORM

William J. Domina (Date)
Milwaukee County Corporation Counsel

**REVIEWED AS TO
INDEMNIFICATION AND INSURANCE**

John R. Rath (Date)
Milwaukee County Department of Risk Management

**APPROVED AS TO CHAPTER 42
DBE PROVISIONS**

Freida F. Webb (Date)
Milwaukee County DBD Director

MEMORANDUM

TO: MCAMLIS Steering Committee

FROM: MCAMLIS Project Staff

DATE: May 19, 2003

SUBJECT: **DEVELOPMENT OF A TRANSACTIONAL MAP UPDATE CAPABILITY FOR THE MCAMLIS CADASTRAL MAP LAYER**

BACKGROUND

The development of a transactional map update capability for the MCAMLIS digital cadastral base maps has been a topic of discussion at MCAMLIS Steering Committee meetings for several years. The recently completed MCAMLIS Land and Utility Information System Internet Prototype Study recommended that MCAMLIS digital cadastral base maps be organized into a continuous map scheme and that a transactional update mechanism be developed to work with the continuous digital cadastral maps. This memorandum sets forth the need for the development of such a mechanism, describes in basic form the work tasks that would need to be undertaken to accomplish this goal, estimates the cost for carrying out this work effort, and provides specific recommendations for a course of action.

THE NEED FOR A TRANSACTIONAL DIGITAL CADASTRAL MAP UPDATE MECHANISM

The current MCAMLIS database environment is essentially a graphics database which has the ability to be linked to separate attribute databases. One example of the manner by which such a linkage occurs is the parcel identification number, or PIN. As users make use of these linkages in the MCAMLIS maps to link to one or more attribute database models, it becomes more important to maintain a record of changes in the map graphics. When this is not done, a new version of a MCAMLIS cadastral map, for example, requires a complete review of the revised map in order to identify those features of the map where additions, deletions, or modifications (transactions) have occurred. This review is not only time consuming, but subject to random error, which is difficult to catch and prevent.

An alternative map update environment where careful records are kept of transactions simplifies the process of reestablishing the linkage between a revised map and the attribute database or databases. It further reduces the probability of error since each change to the map is clearly identified and linkage of the map feature to an attribute database can be closely maintained. Such map and attribute linkage operations are becoming increasingly common. Among current users of MCAMLIS data products, the City of Franklin has already moved into such an environment. There are other users, such as the Milwaukee County Department of Public Works and the Milwaukee County Parks Department, that plan to make this transition. For this reason, a transactional digital cadastral map update mechanism has been

requested by a number of units of government and organizations that link the MCAMLIS cadastral base maps to attribute databases. WE Energies staff has also registered its support for the development of this capability.

Therefore, the development of a transactional digital cadastral map maintenance mechanism will serve those MCAMLIS data users who have entered, or are expected to enter, processing environments where the MCAMLIS graphic databases need to be more tightly integrated with attribute databases. Importantly, the development of a transactional mechanism in no way interferes with those users who will continue to operate in the more traditional map graphics oriented, or cartographic, environments.

WORK EFFORT REQUIRED FOR THE DEVELOPMENT OF A TRANSACTIONAL CADASTRAL MAP UPDATE MECHANISM

The MCAMLIS Land and Utility Information System Internet Prototype Study evaluated a number of alternative methodologies for creating a transactional map update mechanism.¹ Based upon this evaluation, the study recommended that a particular mechanism be utilized in the development of this capability for the MCAMLIS project.² The recommendation put forth in the study is based upon a combination of functionality, relative complexity, and cost. Implementation of the recommended alternative would require some modest redesign of the existing MCAMLIS cadastral map database model and the development of customized procedures and computer software to perform the desired operations.

The consultant who carried out the MCAMLIS Land and Utility Information System Internet Prototype Study recommended that the development of a transactional cadastral map update mechanism not be initiated until substantial progress had been achieved in the completion of a continuous digital cadastral base map. While the reorganization of the present MCAMLIS digital cadastral maps into a continuous cadastral map could start during 2003, it is unlikely that substantial progress could be achieved to initiate the development of a digital transactional cadastral map update mechanism before the end of 2003. As a practical matter, then, this activity most likely could not be initiated until sometime during 2004.

ESTIMATED COST

The MCAMLIS Land and Utility Information System Internet Prototype Study contains a cost estimate of \$33,000 for the necessary MCAMLIS map database redesign and for the development of procedures and software programs in order to implement the solution recommended in the study. This cost estimate assumes that the MCAMLIS digital cadastral maps have already been converted to a continuous map environment.

A future release of ESRI ArcInfo software³ expected within the next nine months may possess the ability to deal with the transactional update issue thus avoiding the need to develop customized procedures and software for the MCAMLIS digital cadastral maps. An ESRI white paper⁴ concerning this issue refers to

¹MCAMLIS Land and Utility Information System Internet Prototype Study, Report No. 3, Ruekert & Mielke, Inc., pp. 56-65.

²Op cit., p.65.

³The MCAMLIS digital cadastral maps are presently maintained in an ESRI ArcInfo environment.

⁴Modeling and Using History in ArcGIS, ESRI, May 2002.

this capability as "versioning." Early product announcements indicate that the release--release 9.0⁵--will also be "backwards" compatible, which will protect the interest of those MCAMLIS map users who wish to continue to operate in the ESRI "coverage" and "shapefile" environments. The 9.0 release also appears to afford translation capability for users of MicroStation DGN and AutoCAD DWG formats.

RECOMMENDATIONS

Based upon the project staff assessment of this issue, the following recommendations are made to the MCAMLIS Steering Committee:

- It is recommended that the development of a transactional digital cadastral map update mechanism not be initiated at this time. It is further recommended that the Steering Committee revisit this issue in late 2003 or early 2004 when it is judged by project staff that sufficient progress has been made on the development of a continuous digital cadastral base map.
- It is recommended that project staff continue to investigate planned releases of ESRI software to determine if version 9.0 of this software has the potential to address the transactional map update requirement. Project staff should report to the Steering Committee on an as-needed basis their findings in this investigation.

* * * * *

⁵Version 8.3 of the ArcInfo is the most current version of ArcInfo presently available and is the version used currently to maintain the MCAMLIS digital cadastral maps.

MEMORANDUM

TO: MCAMLIS Steering Committee

FROM: MCAMLIS Project Staff

DATE: May 19, 2003

SUBJECT: **EXTENSION OF THE MILWAUKEE COUNTY STREET ADDRESS DATABASE**

BACKGROUND

Beginning in 1996 and ending in 1999, the MCAMLIS project completed a street address database for the 18 suburban units of government in Milwaukee County. Since that time, the street address database has been the subject of a continuing maintenance program carried out by the Milwaukee County Register of Deeds Office with MCAMLIS funding.

At its meeting held on December 14, 1999, the MCAMLIS Steering Committee authorized an investigation to assess the accuracy and currency of the City of Milwaukee street address database and to identify the steps necessary to render that database compatible with the MCAMLIS street address database. The firm of Spatial Data Solutions, Inc., was retained to carry out the investigation. At its meeting held on October 8, 2002, the MCAMLIS Steering Committee accepted the report prepared by Spatial Data Systems, Inc., that resulted from this investigation.

Also, at its meeting held on October 8, 2002, the MCAMLIS Steering Committee, in reviewing a memorandum entitled "MCAMLIS Program Strategic Assessment for 2003 - 2006," determined that the completion of a county-wide MCAMLIS street address database, including the integration of the City of Milwaukee street address database, should be a relatively high priority MCAMLIS work program activity.

This memorandum sets forth the basic work tasks required to accomplish the integration of the City of Milwaukee street address database with the MCAMLIS street address database; describes the additional effort that would need to be undertaken to render the City database fully compatible with the MCAMLIS street address database; estimates the costs for carrying out this work effort; and provides a specific recommendation for a course of action.

WORK EFFORT REQUIRED FOR THE COMPLETION OF A MCAMLIS STREET ADDRESS DATABASE

There are two major tasks that would need to be undertaken to integrate the City of Milwaukee street address database with the MCAMLIS street address database. The first of these steps is the simpler of the

two and requires the development of a common database format based upon the similarities and differences between the City of Milwaukee street address database and the MCAMLIS street address database and then populating the revised database format with the information contained in the two separate databases.

The second step is more complicated. The MCAMLIS street address database design is more complex than that of the City of Milwaukee and relates the street addresses to graphic features contained on MCAMLIS base maps. These features are the real property ownership parcels and the structure outlines. In addition, the MCAMLIS street address database includes a street centerline file that is geometrically related to the MCAMLIS base maps. Attributes, such as address range and limited census geography, are obtained from U.S. Bureau of the Census sources and are added to the street centerline file. Upon completion, the MCAMLIS street address database consists of six interrelated files--a graphic file and an attribute file for street centerlines, structures, and parcels all related to one another through structure addresses.

These interrelated files will need to be established for that portion of the MCAMLIS countywide street address database consisting of the City of Milwaukee. The MCAMLIS digital topographic maps and the MCAMLIS format transformed City of Milwaukee cadastral maps would provide the principal sources for completing this second activity.

Under the work effort herein proposed, two additional tasks would not be undertaken. The first of these is the field verification of approximately 70,000 street addresses in a portion of the City of Milwaukee, as recommended in the report prepared by Spatial Data Solutions, Inc. This task would not be carried out since there is a lack of consensus that the step is necessary.

The second task that would not be carried out at this time would be the enhancement of the original MCAMLIS street address database to include addresses inside multi-unit residential and commercial structures. MCAMLIS project staff have yet to identify a suitable source for obtaining this information. Multiple-unit addresses already exist for the City of Milwaukee street address database where these data have been developed incrementally over a decade or more through internal City sources, such as building permits and inspection reports, and constantly refined and improved through use, and would be retained in the merged database.

ESTIMATED COST

The memorandum report prepared by Spatial Data Solutions, Inc., assessing the City of Milwaukee street address database provided a cost estimate of \$149,000 to reformat and merge the City of Milwaukee street address database and the MCAMLIS street address database and to field verify approximately 70,000 parcels located in older sections of the City of Milwaukee. No breakdown of the \$149,000 total cost by component was provided. More importantly, no estimated costs were provided for the linking of parcels and structures to the street centerline file, which is an integral component of the MCAMLIS street address database. Since project staff are not recommending that the field verification of street addresses for approximately 70,000 real property parcels be carried out as part of this effort, and in view of the absence of a cost estimate for the structuring of the street centerline file for the City of Milwaukee, cost estimates for carrying out the scope of work recommended in the preceding section were developed by project staff.

The total cost for the project, as described herein, is estimated to be \$142,000. This cost is comprised of the following components:

• The development of a revised database design based upon the components of the MCAMLIS street address database and the City of Milwaukee street address database and the merging of the two databases into the revised database model	\$ 3,000
• The completion of the street centerline component.....	\$ 43,100
• The completion of the structures component.....	\$ 32,150
• The completion of the parcel component.....	\$ 63,700
Total	<u>\$142,000</u>

The project cost estimate of \$142,000 assumes that the City of Milwaukee will supply digital street address information in its data holdings to the MCAMLIS Steering Committee at no cost. City staff in the past have verbally agreed to do this.

While it should be noted that City of Milwaukee transformed MCAMLIS format cadastral maps exist for a significant portion of the City of Milwaukee at this stage, the balance of these transformed maps are currently not expected to be completed until the end of 2004. Accordingly, while it would be possible to initiate this project in 2003, it could not be completed any earlier than the first calendar quarter of 2005 based upon the present schedule for the completion of the MCAMLIS format City of Milwaukee transformed cadastral maps.

RECOMMENDATIONS

Based upon the project staff assessment of this issue, the following recommendations are made to the MCAMLIS Steering Committee:

- It is recommended that the Steering Committee authorize the initiation of the project described herein.
- It is recommended that the Steering Committee authorize the expenditure of \$142,000 from MCAMLIS project funds to carry out the project.
- It is recommended that the project staff be directed to secure the execution of an agreement between the Steering Committee and the Southeastern Wisconsin Regional Planning Commission to complete the project.

In the event that the Steering Committee determines to proceed in the recommended manner set forth herein, a proposed Agreement between the MCAMLIS Steering Committee and the Southeastern Wisconsin Regional Planning Commission is attached hereto for Steering Committee consideration.

* * * * *

AGREEMENT

THIS AGREEMENT, entered into this ____ day of _____, 2003, 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 (MCAMLIS) Steering Committee (hereinafter referred to as the "Steering Committee").

WITNESSETH:

WHEREAS, the Commission is authorized by Section 66.0309 of the Wisconsin Statutes to make studies and prepare plans for, and to provide advisory services to local governments, and to act as a coordinating agency for planning activities within its jurisdictional area; and

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 is 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 authorized the execution of a Cooperative Agreement between Milwaukee County and the public and private utilities serving Milwaukee County, which Cooperative Agreement created a public-private partnership to implement the proposed Milwaukee County automated mapping and land information system, whereby the County and the utilities involved agreed to jointly fund the development of the Milwaukee County automated mapping and land information system; and

WHEREAS, the aforementioned Cooperative Agreement further created a Steering Committee to provide oversight in the implementation of the Milwaukee County automated mapping and land information system and delegated to the 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 July 29, 1991, formally requested the Commission to accept the responsibilities of Project Manager of the Milwaukee County automated mapping and land information system; and

WHEREAS, the Executive Committee of the Commission on August 21, 1991, authorized Commission assistance in execution of the work required to implement the Milwaukee County automated mapping and land information system in the manner envisioned in the aforereferenced Commission report; 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 Services

The MCAMLIS street address database has been completed for 18 of the 19 Milwaukee County municipal units of government. Under the terms of this Agreement, the Commission will complete the MCAMLIS street address database for the last of these municipalities, the City of Milwaukee.

The Commission will acquire the City of Milwaukee's existing digital street address information and will augment that information with additional information from the MCAMLIS digital topographic maps, the MCAMLIS format digital cadastral maps recompiled and reformatted by City of Milwaukee staff from City sources, U.S. Bureau of the Census sources, and other sources as may be necessary to complete the work.

The resultant work will be completed in accordance with the descriptions of the MCAMLIS street address database set forth in the document "Address Data User's Guide, Milwaukee County Automated Mapping and Land Information System," prepared by the MCAMLIS project staff and dated April 17, 2003.

The Commission will complete these tasks through a combination of its own staff resources and, if necessary, through the retention of a qualified consultant.

II. Compensation

The Steering Committee shall pay to the Commission the sum of \$142,000 as full payment for the services described in Section I. This cost assumes that the City of Milwaukee will supply digital street address information in its holdings to the Steering Committee at no cost.

III. Method of Compensation

The Commission shall submit invoices to the Steering Committee during the progress of the work for partial payment on account for work completed to date. The Steering Committee shall pay to the Commission the amounts shown on the invoices upon receipt of said invoices.

IV. Timing

The work to be performed under this Agreement shall be completed no later than March 31, 2005.

V. 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.

VI. 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 Wisconsin 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.

VII. Records and Audits

The Commission shall allow Milwaukee County, the Milwaukee County Department of Audit, or any other party the 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 the Milwaukee County aforementioned audit information for no less than three years after the conclusion of each contract term.

VIII. Independent Contractor

Nothing contained in this 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.

IX. Authorization

The Steering Committee approved the project that is the subject of this Agreement by action taken at a regular meeting held on June 10, 2003.

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

ATTESTING WITNESS

**SOUTHEASTERN WISCONSIN
REGIONAL PLANNING COMMISSION**

By _____
Philip C. Evenson
Deputy Secretary

By _____
Thomas H. Buestrin
Chairman

ATTESTING WITNESS

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

By _____
Thomas D. Patterson
MCAMLIS Project Manager

By _____
Kurt W. Bauer
Chairman

APPROVED AS TO FORM

William J. Domina (Date)
Milwaukee County Corporation Counsel

**REVIEWED AS TO
INDEMNIFICATION AND INSURANCE**

John R. Rath (Date)
Milwaukee County Department of Risk Management

**APPROVED AS TO CHAPTER 42
DBE PROVISIONS**

Freida F. Webb (Date)
Milwaukee County DBD Director

MEMORANDUM

TO: MCAMLIS Steering Committee

FROM: MCAMLIS Project Staff

DATE: May 20, 2003

**SUBJECT: REVIEW OF THE MCAMLIS DIGITAL MAP COPYRIGHT
AND ATTENDANT LICENSE AGREEMENT PRACTICES**

BACKGROUND

The Milwaukee County Automated Mapping and Land Information System was formed in 1990 to develop and maintain the automated mapping base essential for the creation of a modernized land information system for Milwaukee County. This automated mapping base was intended to serve the needs of Milwaukee County, local units of government within Milwaukee County and the private utilities operating within Milwaukee County. 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, the Wisconsin Gas Company (now WE Energies), the Wisconsin Electric Power Company (also now WE Energies), and Wisconsin Bell (now SBC) invested significant private capital in the MCAMLIS program.

In order to protect their investments, the private utility members of MCAMLIS were granted the MCAMLIS copyright for the mapping base in its digital form. This was accomplished in December 1993 through the execution of a formal license agreement pertaining to matters of copyright ownership and use of MCAMLIS derived data (a copy of this agreement is attached hereto). With respect to mapping products, the license agreement distinguishes between hardcopy and digital mapped materials. Under the terms of the license agreement, the Steering Committee has taken copyright title to all hardcopy maps prepared by the project. A subcommittee of the Steering Committee comprised of representatives of the Wisconsin Gas Company (now We Energies), the Wisconsin Electric Power Company (also now WE Energies) and Wisconsin Bell (now SBC) holds copyright title to the digital mapping materials derived from the MCAMLIS work program. In order to form an operational construct for administering the 1993 MCAMLIS license agreement, the MCAMLIS Steering Committee, at its meeting held on October 17, 1995, adopted the "MCAMLIS Data Requisition and Distribution Guidelines." As part of these guidelines, acquisition and use of the MCAMLIS digital mapping materials requires execution by the prospective user of a license agreement. To this date, these guidelines have continued to govern the distribution of MCAMLIS digital mapping materials.

Through May 20, 2003, 94 units of government, nonprofit organizations, educational organizations and facilities, and private firms have executed a MCAMLIS license agreement.

At its meeting held on April 8, 2003, the Steering Committee requested that project staff review the current copyright and attendant license agreement procedures so that the Steering Committee might consider whether or not to continue these procedures.

This memo sets forth the steps that are being taken by project staff in response to that request.

COURSE OF ACTION

In order to determine the position of the Utilities Subcommittee concerning the continuance of the current copyright and attendant license agreement practices, project staff are taking the following steps:

- Contact individual Utilities Subcommittee members and brief them concerning the current Steering Committee interest in this issue and, if necessary, brief them on the history of this issue.
- Organize a meeting of the Utilities Subcommittee and selected other individuals, such as the Milwaukee County Register of Deeds and the MCAMLIS Project Manager, to discuss the current Steering Committee interest in the issue and to establish a consensus among the Utilities Subcommittee members concerning the MCAMLIS copyright and attendant license agreement practices.
- Prepare a report for distribution to the Steering Committee that accurately reflects the Utilities Subcommittee position on this matter.

It is expected that the report can be provided to the Steering Committee for consideration at the next scheduled Committee meeting.

ESTIMATED COST

It is anticipated that these tasks can be accomplished in 40 person hours or less. Therefore, the cost of carrying out this effort will be absorbed as part of the MCAMLIS project management agreement.

* * * * *

LICENSE AGREEMENT

WHEREAS, Milwaukee County, AMERITECH (Wisconsin Bell), the Wisconsin Electric Power Company, the Wisconsin Gas Company, and the Milwaukee Metropolitan Sewerage District, have entered into a cooperative agreement establishing the Milwaukee County Automated Mapping and Land Information System, said system being governed by a Steering Committee comprised of representatives from Milwaukee County, AMERITECH (Wisconsin Bell), the Wisconsin Electric Power Company, the Wisconsin Gas Company, the Milwaukee Metropolitan Sewerage District, the City of Milwaukee, and the Intergovernmental Cooperation Council of Milwaukee County, to develop an automated mapping and land information system covering Milwaukee County, including, among other things, information and materials relating to U.S. Public Land Survey corner monumentation, control surveys, digital planimetric and topographic maps, digital cadastral map overlays, parcel identifiers, and other related documents and materials (all collectively the "Materials");

AND WHEREAS, in order to obtain certain financial support of AMERITECH (Wisconsin Bell), the Wisconsin Electric Power Company, and the Wisconsin Gas Company (the "Utilities") in connection with these activities, the Steering Committee has come to the following agreement relating to ownership, access, and use of the Materials:

1. Copyright Ownership. The Steering Committee shall own copyright title to all of said Materials with the exception of the "Digital Materials". The Digital Materials shall consist of all digital format (regardless of means of storage) Materials, including without limitation computer data bases. Copyright title to the Digital Materials shall be owned by a sub-committee of the Steering Committee (the "Sub-committee") comprised of AMERITECH (Wisconsin Bell), the Wisconsin Electric Power Company, and the Wisconsin Gas Company (the "Utilities").

2. License. All parties to the cooperative agreement creating the Milwaukee County Automated Mapping and Land Information System are hereby irrevocably and perpetually licensed (and granted the right to license others) to use, reproduce, modify, distribute, perform, and display the Materials (other than the Digital Materials) without restriction. With respect to the Digital Materials, all of the parties to the agreement creating the Milwaukee County Automated Mapping and Land Information System are hereby irrevocably and perpetually (albeit just for their own, including corporate affiliates, internal purposes), licensed to use, reproduce, modify, perform, and display the Digital Materials. This shall include the right to prepare and distribute non-digital form reports on one or more land parcels using the Digital Materials, and to distribute the reports to the public. However, except as provided below, absent the consent of a majority of both the Sub-committee and the Steering Committee, none of the members of the Steering Committee may permit distribution of copies of the Digital Materials (or digital form materials substantially based thereon) to others besides the Steering Committee. Distribution in violation of this paragraph shall be deemed to be a copyright violation. Each member of the Steering Committee shall prevent access by third parties to such digital items (except as provided below).

3. Notwithstanding the above, nothing herein shall preclude Milwaukee County from complying with its obligations under grant agreements with the State of Wisconsin, or restrict rights granted to the State of Wisconsin thereunder.

4. Nothing herein shall preclude the Milwaukee Metropolitan Sewerage District from complying with its obligations under any grant and aid agreement with the State of Wisconsin or the Federal Government or in complying with the requirements of Sections 19.32 to 19.39, Wisconsin Statutes.

5. Nothing herein shall preclude a member of the Steering Committee from complying with a court order that it has not stipulated to.

6. The Sub-committee members may not assign their rights to the Digital Materials to any third party.

7. If a majority of the Steering Committee voting members believe that an infringement of the copyright in the Digital Materials is taking place (and the Sub-committee does not wish to pursue the matter), the Steering Committee shall have the right to enforce the copyright as against such third parties (at its cost and for its benefit). The Steering Committee shall, at its cost, register the copyright to the Digital Materials in the Sub-committee's name.

8. All members of the Steering Committee hereby agree that in deciding whether to assert their power to restrict use of the Digital Materials by third parties they will not unreasonably refuse to provide access to the Digital Materials via their vote where the intended use is solely for a non-profit purpose. If some third party should be interested in having access to the Digital Materials for a commercial purpose, the Steering Committee members also hereby agree not to unreasonably refuse such access where the requester agrees to be bound by the type of restrictions on access to others provided herein and pays to the Steering Committee an amount of money equal to the average amount of money that each of the Utilities have paid into the project as of the date of the request. Funds received from this source will be used for the purposes of the Steering Committee.

IN WITNESS THEREOF, the County and the Utilities have executed this Agreement.

AMERITECH (WISCONSIN BELL)

Date 12-7-93

By Mary Ann Feitz

Attest Allen L. Mah

WISCONSIN ELECTRIC POWER COMPANY

Date 12-9-93

By DeW Carter

Attest DeW Carter

WISCONSIN GAS COMPANY

Date 11/16/93

By Gerald R. Laroux

APPROVED
 ADDENDUM
ATTACHED
11/17/93
Law
LAW DEPT.

Attest _____

MILWAUKEE METROPOLITAN SEWERAGE DISTRICT

Date 11/17/93

By Paul H. Hall

Attest Robert H. Brown

MILWAUKEE COUNTY REGISTER OF DEEDS

Date Nov. 8. 1993

By Walter O. Barclay

Attest Joseph J. [Signature]

DIRECTOR, MILWAUKEE COUNTY
DEPARTMENT OF ADMINISTRATION

Date 11-9-93

By [Signature]

Attest Barbara [Signature]

KWB/TDP/DHH
5MCAMLIS.AD5
11/03/93



DEPARTMENT OF PUBLIC WORKS

Milwaukee County

To: MCAMLIS Steering Committee

From: Milwaukee County Register of Deeds, Department of Public Works, and
Department of Administrative Services

Date: July 8, 2003

Subject: Funding Request for County Database Needs Assessment

Background

In June 2001, Plangraphics, Inc. completed a Milwaukee County Public Works and Parks GIS Conceptual Design and Implementation Plan for the Parks and Public Works Departments. The scope and purpose was to identify and quantify GIS applications required to access and utilize a centralized Geographic Information System. The study was to be used as a starting point for development of a countywide enterprise GIS program. The study recommended, among other things, that the county center its GIS deployment on a central Geodatabase (ArcSDE) for data storage and maintenance. It also recommended that future growth be extended to include county departments befitting the use of an enterprise GIS system.

Need for County Database Needs Assessment

At the June meeting of the MCAMLIS Steering Committee, two work proposals were submitted for your consideration, Reorganization of Digital Cadastral Base into a Continuous Base Map and Extension of the Milwaukee County Street Address Database. While we believe that these two work efforts would be of value to the county and other MCAMLIS members, we feel that to move forward as proposed, would cause serious problems for the maintenance and usability of these data products by the county.

On July 2, Milwaukee County, MCAMLIS Project Management and SEWRPC staffs meet to discuss this issue. The recommendations from that meeting were that Milwaukee County should assess their needs, specifically related to MCAMLIS Cadastral and

Streets/Street Address databases, and then propose an alternative to the currently proposed work efforts. Therefore, we are requesting your consideration of this proposal.

Description of Work Effort

The purpose of this assessment is to inventory the specific needs of targeted departments as it relates to MCAMLIS Cadastral and Streets/Street Address databases. The end result of this analysis will be detailed specifications for the development of a Cadastral and Streets/Street Address databases and estimates on cost, maintenance requirements and time schedules for database implementation and conversion of current MCAMLIS data into proposed database formats.

The work effort entails the following tasks:

1. Needs assessment of targeted departments. This will include interviews with county department staff and inventories of GIS data, functions, maintenance procedures and applications.
2. Detailed specifications for Cadastral and Streets/Street Address databases.
3. Feedback from municipal GIS agencies on proposed designs and where possible design modifications to expand the usability of the products.
4. Final design specifications and estimates.

The estimated cost for conducting this project is \$35,000-45,000.

Recommendation

Based on the county's assessment of this issue, we are requesting that the MCAMLIS Steering Committee approve expenditure not to exceed \$45,000 to complete this work task.

III A

Wisconsin Land Information Program Grants-In-Aid to Local Governmental Units

Year 2004*-Cycle Grant Application
Pursuant to Chapter Adm 47, Wisconsin Administrative Code

Grant Applications Accepted:
November 1, 2003 - January 30, 2004

Mail Your Application, Including Required Signature To:

Georgia Hopf
Grants Specialist
Division of Intergovernmental Relations
Wisconsin Department of Administration
P.O. Box 8944
Madison, WI 53708-8944

AND

E-mail Your Application To: georgianna.hopf@doa.state.wi.us

**If you have questions about anything contained in this application packet, please
email or call Georgianna Hopf at 608/267.2722.**

*Because the Land Information Board awarded fiscal year 2003-collected grant funds along with the year 2002 cycle, we refer to the current cycle as the 2004 cycle grants.

County	Fiscal Year 2003 Revenue			Grants		Total Grant Awards
	County Contributions	County Contributions Shown As %	County-Retained Fees Minus Add'l \$1	Land Information Base Budget Awards (17 Counties)	Training and Education Awards	
	\$4,770,287			\$210,726	\$21,600	\$232,326
Adams	\$21,604	0.45%	\$43,208	\$0	\$300	\$300
Ashland	\$11,954	0.25%	\$23,908	\$11,092	\$300	\$11,392
Barron	\$37,536	0.79%	\$75,072	\$0	\$300	\$300
Bayfield	\$18,356	0.38%	\$36,712	\$0	\$300	\$300
Brown	\$240,644	5.04%	\$481,288	\$0	\$300	\$300
Buffalo	\$10,580	0.22%	\$21,160	\$13,840	\$300	\$14,140
Burnett	\$19,364	0.41%	\$38,728	\$0	\$300	\$300
Calumet	\$56,619	1.19%	\$113,237	\$0	\$300	\$300
Chippewa	\$47,514	1.00%	\$95,028	\$0	\$300	\$300
Clark	\$20,474	0.43%	\$40,948	\$0	\$300	\$300
Columbia	\$54,998	1.15%	\$109,996	\$0	\$300	\$300
Crawford	\$11,544	0.24%	\$23,088	\$11,912	\$300	\$12,212
Dane	\$476,696	9.99%	\$953,392	\$0	\$300	\$300
Dodge	\$68,466	1.44%	\$136,932	\$0	\$300	\$300
Door	\$37,285	0.78%	\$74,570	\$0	\$300	\$300
Douglas	\$30,588	0.64%	\$61,176	\$0	\$300	\$300
Dunn	\$33,212	0.70%	\$66,424	\$0	\$300	\$300
Eau Claire	\$74,150	1.55%	\$148,300	\$0	\$300	\$300
Florence	\$5,336	0.11%	\$10,672	\$24,328	\$300	\$24,628
Fond du Lac	\$80,486	1.69%	\$160,972	\$0	\$300	\$300
Forest	\$9,363	0.20%	\$18,726	\$16,274	\$300	\$16,574
Grant	\$28,632	0.60%	\$57,264	\$0	\$300	\$300
Green	\$34,156	0.72%	\$68,312	\$0	\$300	\$300
Green Lake	\$16,952	0.36%	\$33,904	\$1,096	\$300	\$1,396
Iowa	\$23,470	0.49%	\$46,940	\$0	\$300	\$300
Iron	\$6,924	0.15%	\$13,848	\$21,152	\$300	\$21,452
Jackson	\$13,726	0.29%	\$27,452	\$7,548	\$300	\$7,848
Jefferson	\$76,508	1.60%	\$153,016	\$0	\$300	\$300
Juneau	\$19,498	0.41%	\$38,996	\$0	\$300	\$300
Kenosha	\$124,494	2.61%	\$248,988	\$0	\$300	\$300
Kewaunee	\$19,602	0.41%	\$39,204	\$0	\$300	\$300
La Crosse	\$90,176	1.89%	\$180,352	\$0	\$300	\$300
Lafayette	\$11,704	0.25%	\$23,408	\$11,592	\$300	\$11,892
Langlade	\$16,888	0.35%	\$33,776	\$1,224	\$300	\$1,524
Lincoln	\$47,626	1.00%	\$95,252	\$0	\$300	\$300
Manitowoc	\$65,216	1.37%	\$130,432	\$0	\$300	\$300
Marathon	\$101,486	2.13%	\$202,972	\$0	\$300	\$300
Marinette	\$35,312	0.74%	\$70,624	\$0	\$300	\$300
Marquette	\$16,510	0.35%	\$33,020	\$1,980	\$300	\$2,280
Menominee	\$1,876	0.04%	\$3,752	\$31,248	\$300	\$31,548
Milwaukee	\$524,182	10.99%	\$1,048,364	\$0	\$300	\$300
Monroe	\$28,378	0.59%	\$56,756	\$0	\$300	\$300
Oconto	\$42,302	0.89%	\$84,604	\$0	\$300	\$300
Oneida	\$47,906	1.00%	\$95,812	\$0	\$300	\$300
Outagamie	\$162,266	3.40%	\$324,532	\$0	\$300	\$300
Ozaukee	\$93,118	1.95%	\$186,236	\$0	\$300	\$300
Pepin	\$5,558	0.12%	\$11,116	\$23,884	\$300	\$24,184
Pierce	\$34,940	0.73%	\$69,880	\$0	\$300	\$300
Polk	\$48,894	1.02%	\$97,788	\$0	\$300	\$300

Portage	\$55,034	1.15%	\$110,068	\$0	\$300	\$300
Price	\$13,420	0.28%	\$26,840	\$8,160	\$300	\$8,460
Racine	\$137,032	2.87%	\$274,064	\$0	\$300	\$300
Richland	\$14,164	0.30%	\$28,328	\$6,672	\$300	\$6,972
Rock	\$128,854	2.70%	\$257,708	\$0	\$300	\$300
Rusk	\$12,854	0.27%	\$25,708	\$9,292	\$300	\$9,592
St. Croix	\$89,646	1.88%	\$179,292	\$0	\$300	\$300
Sauk	\$65,634	1.38%	\$131,268	\$0	\$300	\$300
Sawyer	\$22,148	0.46%	\$44,296	\$0	\$300	\$300
Shawano	\$35,092	0.74%	\$70,184	\$0	\$300	\$300
Sheboygan	\$104,448	2.19%	\$208,896	\$0	\$300	\$300
Taylor	\$12,784	0.27%	\$25,568	\$9,432	\$300	\$9,732
Trempealeau	\$21,070	0.44%	\$42,140	\$0	\$300	\$300
Vernon	\$19,510	0.41%	\$39,020	\$0	\$300	\$300
Vilas	\$33,700	0.71%	\$67,400	\$0	\$300	\$300
Walworth	\$95,696	2.01%	\$191,392	\$0	\$300	\$300
Washburn	\$18,472	0.39%	\$36,944	\$0	\$300	\$300
Washington	\$124,728	2.61%	\$249,456	\$0	\$300	\$300
Waukesha	\$396,534	8.31%	\$793,068	\$0	\$300	\$300
Waupaca	\$48,486	1.02%	\$96,972	\$0	\$300	\$300
Waushara	\$26,046	0.55%	\$52,092	\$0	\$300	\$300
Winnebago	\$139,540	2.93%	\$279,080	\$0	\$300	\$300
Wood	\$50,326	1.05%	\$100,652	\$0	\$300	\$300
Totals	\$4,770,287	100.00%	\$9,540,573	\$210,726	\$21,600	\$232,326

(g:/wlip/grants/2004/2004 grant application packet)



III B

**STATUS OF MCAMLIS MAPPING PROJECTS
BEING CARRIED OUT BY CITY OF MILWAUKEE STAFF**

The City of Milwaukee recompilation project is comprised of 40 U.S. Public Land Survey one-quarter section-based maps as delineated on the accompanying status map. These cadastral maps were compiled to fit the MCAMLIS survey control system utilizing original land records and associated descriptions and documents. This work has been carried out by the staff of the City of Milwaukee, Infrastructure Service Division, Central Drafting and Records Office. This project was completed November 30, 2001.

The City of Milwaukee cadastral map transformation project (Phase 1) consists of 93 U.S. Public Land Survey one-quarter-section-based existing City of Milwaukee maps that are being refit to the MCAMLIS survey control system utilizing computer algorithms. These 93 one-quarter section maps are delineated on an accompanying status map. This work is being carried out by the staff of the City of Milwaukee, Department of Administration, Information and Technology Management Division. All 93 of the map sheets have been accepted by SEWRPC staff as meeting the relevant specifications. The agreement governing this project calls for work to be completed by October, 2002. This project was completed February 25, 2003. On April 28, 2003 an addendum revised the project to include an additional 6 map sheets. This addendum calls for the work to be completed by December 31, 2003. This project was completed September 16, 2003.

The City of Milwaukee cadastral map transformation project (Phase 2) consists of 24 U.S. Public Land Survey one-quarter-section-based maps as delineated on an accompanying status map. All 24 of the map sheets have been accepted as being in compliance with the specifications in this project area. The agreement governing this project calls for work to be completed by June 2002. This project was completed February 14, 2002.

The City of Milwaukee cadastral map transformation project (Phase 3) also consists of 24 U.S. Public Land Survey one-quarter-section-based maps again as delineated on an accompanying status map. All 24 map sheets have been accepted as being in compliance with the specifications. The agreement governing this project calls for work to be completed by June 2002. This project was completed February 14, 2002.

The City of Milwaukee cadastral map transformation project (Phase 4) also consists of 24 U.S. Public Land Survey one-quarter-section-based maps again as delineated on an accompanying status map. All 24 map sheets have been accepted as being in compliance with the specifications. The agreement governing this project calls for work to be completed by December 2002. This project was completed February 15, 2003. On April 23, 2003 an addendum revised the project to include an additional 6 map sheets. This addendum calls for the work to be completed by June 30, 2003. This project was completed June 18, 2003.

The City of Milwaukee cadastral map transformation project (Phase 5) also consists of 24 U.S. Public Land Survey one-quarter-section-based maps again as delineated on an accompanying status map. The agreement governing this project calls for work to be completed by December 2002. This project was completed January 3, 2003. On April 25, 2003 an addendum revised the project to include an additional 6 map sheets. This addendum calls for the work to be completed by June 30, 2003. This project was completed June 27, 2003.

The City of Milwaukee cadastral map transformation project (Phase 6) consists of 26 U.S. Public Land

Survey one-quarter-section-based maps again as delineated on an accompanying status map. The agreement governing this project calls for work to be completed by December 2003. On April 30, 2003 an addendum revised the project to include an additional 6 map sheets. This addendum calls for the work to be completed by December 31, 2003. This project was completed September 16, 2003.

The City of Milwaukee cadastral map transformation project (Phase 7) consists of 24 U.S. Public Land Survey one-quarter-section-based maps again as delineated on an accompanying status map. As of June 24, 2003, 15 maps from this project area have been submitted to SEWRPC staff for review and accordingly, 15 maps sheets have been accepted as being in compliance with the specifications. The agreement governing this project calls for work to be completed by April 2004. As of October 30, 2003, 23 maps from this project area have been submitted to SEWRPC staff for review and accordingly, 15 maps sheets have been accepted as being in compliance with the specifications.

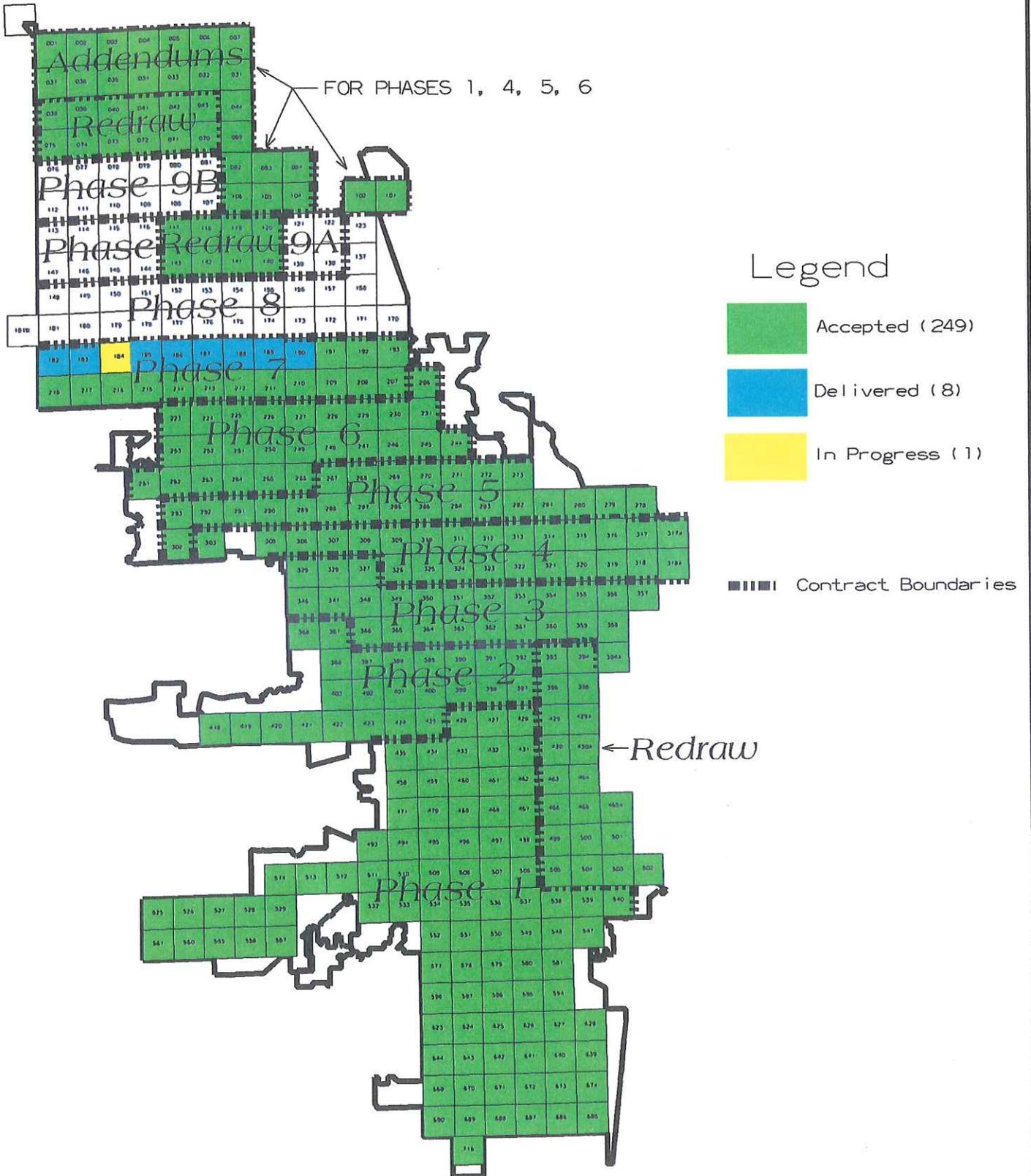
The City of Milwaukee cadastral map transformation project (Phase 8) consists of 25 U.S. Public Land Survey one-quarter-section-based maps again as delineated on an accompanying status map. As of June 24, 2003, 0 maps from this project area have been submitted to SEWRPC staff for review and accordingly, 0 maps sheets have been accepted as being in compliance with the specifications. The agreement governing this project calls for work to be completed by October 2004. There is currently no reason to expect that the project completion schedule will not be met.

The City of Milwaukee cadastral map transformation project (Phase 9A) consists of 12 U.S. Public Land Survey one-quarter-section-based maps again as delineated on an accompanying status map. As of June 24, 2003, 0 maps from this project area have been submitted to SEWRPC staff for review and accordingly, 0 maps sheets have been accepted as being in compliance with the specifications. The agreement governing this project calls for work to be completed by October 2004. There is currently no reason to expect that the project completion schedule will not be met.

The City of Milwaukee cadastral map transformation project (Phase 9B) consists of 12 U.S. Public Land Survey one-quarter-section-based maps again as delineated on an accompanying status map. As of June 24, 2003, 0 maps from this project area have been submitted to SEWRPC staff for review and accordingly, 0 maps sheets have been accepted as being in compliance with the specifications. The agreement governing this project calls for work to be completed by October 2004. There is currently no reason to expect that the project completion schedule will not be met.

* * *

MCAMLIS Transformation Project Progress Map



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:

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WAUKESHA

August 18, 2003

Mr. John LaFave
 Register of Deeds
 Milwaukee County Courthouse
 901 North 9th Street
 Milwaukee, WI 53233

Dear Mr. LaFave:

Pursuant to the terms and conditions of the April 4, 2000, Agreement between your office and this Commission, as modified by the May 28, 2003, Amendment to the April 4, 2000, Agreement, we are providing to you herewith two CD-ROMs containing digital cadastral map files for a portion of the City of Milwaukee. As you already know, these digital cadastral maps have been created under the auspices of the Milwaukee County Automated Mapping and Land Information System (MCAMLIS) program and, as specified in the Amendment to the April 4, 2000, Agreement, are being turned over to your office to be maintained and updated on a continuous basis.

More specifically, these digital cadastral maps are for the following 290 U.S. Public Land Survey System (USPLSS) one-quarter sections:

- the northeast one-quarter of Section 6, Township 5 North, Range 22 East;
- the following 21 USPLSS one-quarter sections in Township 6 North, Range 21 East;
 - the northeast and southeast one-quarters of Section 1;
 - the southeast one-quarter of Section 10;
 - the southwest and southeast one-quarters of Section 11;
 - the northeast, northwest, southwest, and southeast one-quarters of Section 12;
 - the northeast and northwest one-quarters of Section 13;
 - the northeast, northwest, southwest, and southeast one-quarters of Section 15;
 - the northeast, northwest, southwest, and southeast one-quarters of Section 16; and
 - the northeast and southeast one-quarters of Section 17;
- the following 75 USLPSS one-quarter sections in Township 6 North, Range 22 East;
 - the southwest one-quarter of Section 3;
 - the northeast, northwest, southwest, and southeast one-quarters of Section 4;
 - the northeast, northwest, southwest, and southeast one-quarters of Section 5;
 - the northeast, northwest, southwest, and southeast one-quarters of Section 6;
 - the northeast, northwest, southwest, and southeast one-quarters of Section 7;
 - the northeast, northwest, southwest, and southeast one-quarters of Section 8;
 - the northeast, northwest, southwest, and southeast one-quarters of Section 9;
 - the northeast, northwest, southwest, and southeast one-quarters of Section 10;
 - the northwest, southwest, and southeast one-quarters of Section 10;
 - the northwest one-quarter of Section 15;

- the northeast, northwest, southwest, and southeast one-quarters of Section 16;
the northeast, northwest, southwest, and southeast one-quarters of Section 17;
the northeast, northwest, southwest, and southeast one-quarters of Section 18;
the northeast, northwest, southwest, and southeast one-quarters of Section 19;
the northeast, northwest, southwest, and southeast one-quarters of Section 20;
the northwest and southwest one-quarters of Section 21;
the northeast, northwest, southwest, and southeast one-quarters of Section 28;
the northeast, northwest, southwest, and southeast one-quarters of Section 29;
the northeast, northwest, southwest, and southeast one-quarters of Section 30;
the northeast, northwest, southwest, and southeast one-quarters of Section 31;
the northeast, northwest, southwest, and southeast one-quarters of Section 32; and
the northeast, northwest, southwest, and southeast one-quarters of Section 33;
- the following 66 USPLSS one-quarter sections in Township 7 North, Range 21 East;
the northeast, northwest, southwest, and southeast one-quarters of Section 1;
the northeast, northwest, southwest, and southeast one-quarters of Section 2;
the northeast, northwest, southwest, and southeast one-quarters of Section 3;
the northeast, northwest, southwest, and southeast one-quarters of Section 4;
the northeast one-quarter of section 8;
the northeast, northwest, southwest, and southeast one-quarters of Section 9;
the northeast, northwest, southwest, and southeast one-quarters of Section 10;
the northeast, northwest, southwest, and southeast one-quarters of Section 11;
the northeast, northwest, southwest, and southeast one-quarters of Section 12;
the northeast, northwest, southwest, and southeast one-quarters of Section 13;
the northeast, northwest, southwest, and southeast one-quarters of Section 14;
the northeast one-quarter of Section 15;
the northeast and northwest one-quarters of Section 16;
the northeast, northwest, southwest, and southeast one-quarters of Section 23;
the northeast, northwest, southwest, and southeast one-quarters of Section 24;
the northeast, northwest, southwest, and southeast one-quarters of Section 25;
the northeast and southeast one-quarters of Section 26;
the northeast one-quarter of Section 33;
the northeast and northwest one-quarters of Section 34;
the northeast and northwest one-quarters of Section 35; and
the northeast, northwest, and southeast one-quarters of Section 36;
 - the following 74 USPLSS one-quarter sections in Township 7 North, Range 22 East;
the northwest, southwest, and southeast one-quarters of Section 6;
the northeast, northwest, southwest, and southeast one-quarters of Section 7;
the northeast, northwest, southwest, and southeast one-quarters of Section 8;
the southwest and southeast one-quarters of Section 9;
the southwest and southeast one-quarters of Section 10;
the southwest one-quarter of Section 11;
the northwest and southwest one-quarters of Section 14;
the northeast, northwest, southwest, and southeast one-quarters of Section 15;
the northeast, northwest, southwest, and southeast one-quarters of Section 16;

- the northeast, northwest, southwest, and southeast one-quarters of Section 17;
 - the northeast, northwest, southwest, and southeast one-quarters of Section 18;
 - the northeast, northwest, southwest, and southeast one-quarters of Section 19;
 - the northeast, northwest, southwest, and southeast one-quarters of Section 20;
 - the northeast, northwest, southwest, and southeast one-quarters of Section 21
 - the northeast, northwest, and southwest one-quarters of Section 22;
 - the northwest one-quarter of Section 27;
 - the northeast, northwest, southwest, and southeast one-quarters of Section 28;
 - the northeast, northwest, southwest, and southeast one-quarters of Section 29;
 - the northeast, northwest, southwest, and southeast one-quarters of Section 30;
 - the northeast, northwest, southwest, and southeast one-quarters of Section 31;
 - the northeast, northwest, southwest, and southeast one-quarters of Section 32; and
 - the northeast, northwest, southwest, and southeast one-quarters of Section 33;
- the following 52 USPLSS one-quarter sections in Township 8 North, Range 21 East:
 - the northwest and southwest one-quarters of Section 3;
 - the northeast, southwest, and southeast one-quarters of Section 4;
 - the northwest and southwest one-quarters of Section 6;
 - the northeast, northwest, southwest, and southeast one-quarters of Section 7;
 - the northeast, northwest, southwest, and southeast one-quarters of Section 8;
 - the northeast, northwest, southwest, and southeast one-quarters of Section 9;
 - the northwest and southwest one-quarters of Section 10;
 - the southwest and southeast one-quarters of Section 13;
 - the northwest and southwest one-quarters of Section 14;
 - the northeast, northwest, southwest, and southeast one-quarters of Section 15;
 - the northeast, northwest, southwest, and southeast one-quarters of Section 21;
 - the northeast, northwest, southwest, and southeast one-quarters of Section 22;
 - the southwest and southeast one-quarters of Section 31;
 - the southwest and southeast one-quarters of Section 32;
 - the southwest and southeast one-quarters of Section 33;
 - the southwest and southeast one-quarters of Section 34;
 - the northeast, southwest, and southeast one-quarters of Section 35; and
 - the northeast, northwest, southwest, and southeast one-quarters of Section 36; and
 - the southwest one-quarter of Section 31, Township 8 North Range 22 East.

These digital map files were created in MicroStation DGN format by City of Milwaukee staff as part of a multi-year program intended to integrate the pre-existing City of Milwaukee digital maps into the MCAMLIS specifications and standards for digital cadastral maps. In order to accomplish this integration in a cost effective manner, several MCAMLIS digital file and map annotation specifications were waived. This results in these maps having a slightly different "look" from maps prepared to the full set of MCAMLIS specifications and standards, but in no way affects the maps' geometric or topologic integrity. We are enclosing a copy of the detailed specifications used in the preparation of these transformed City maps to assist you and your staff in identifying the design compromises that were agreed to as part of the transformation process. Following acceptance of these maps by Regional Planning Commission staff, they were converted from MicroStation DGN format to ESRI ArcInfo format. The ESRI ArcInfo format

Mr. John LaFave
August 18, 2003
Page 4

digital cadastral map files have been copied to the CD-ROMs being herewith provided in order to be consistent with the computer software utilized in the digital map maintenance procedure being carried out in your office.

The work needed to complete the digital cadastral mapping for the additional 65 USPLSS one-quarter sections in Township 8 North, Range 21 East is currently underway. These remaining digital cadastral maps will be completed between this date and December 31, 2004. We will send this mapping to you on a "work flow" basis as it is completed.

We trust that you will find the digital map files provided to be in order. Should you have any questions or concerns in this regard, however, please do not hesitate to write or call.

Sincerely,

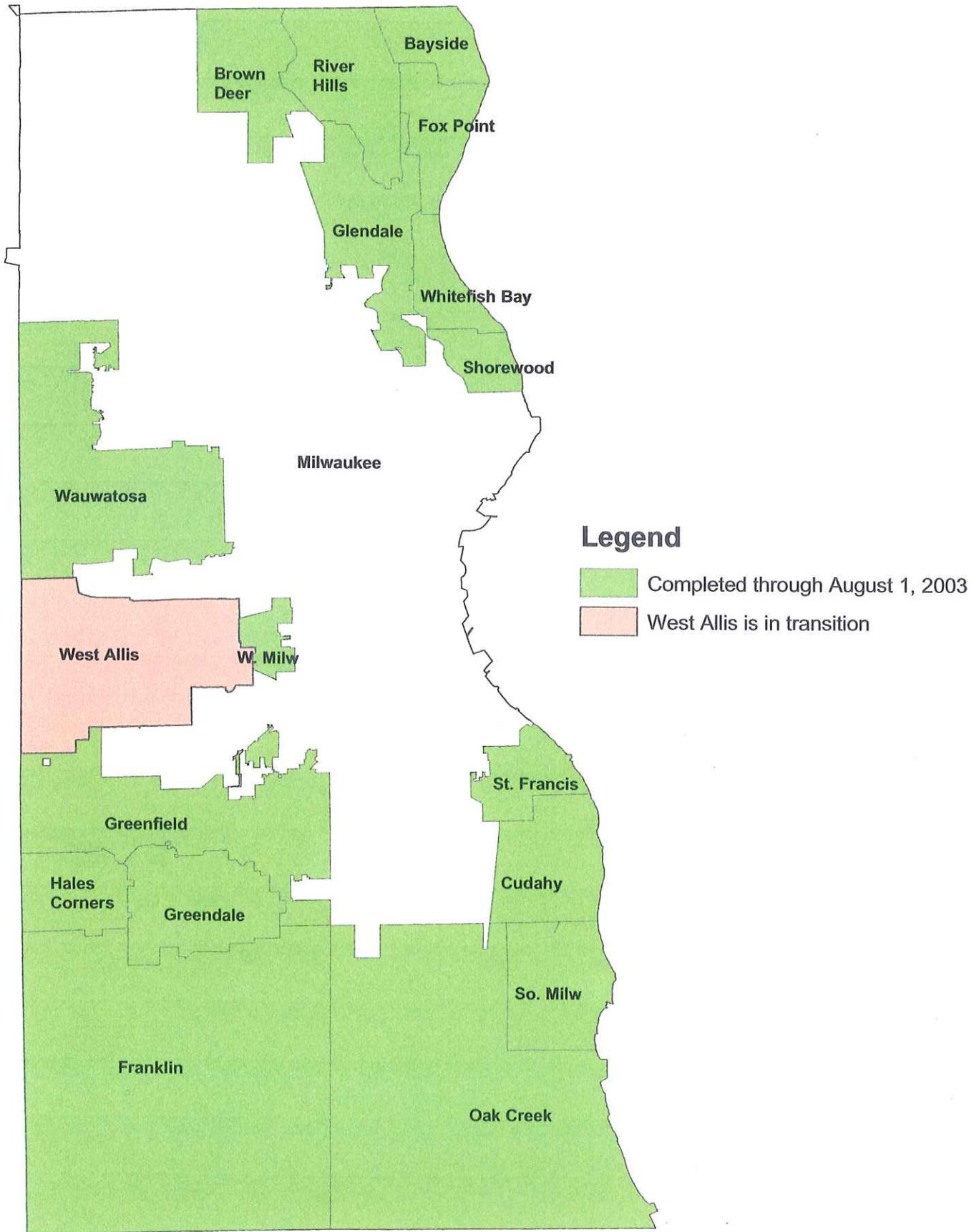
Philip C. Evenson
Executive Director

PCE/TDP/mlh
#85331 v1 - LaFave ltr-cd rom transmittal

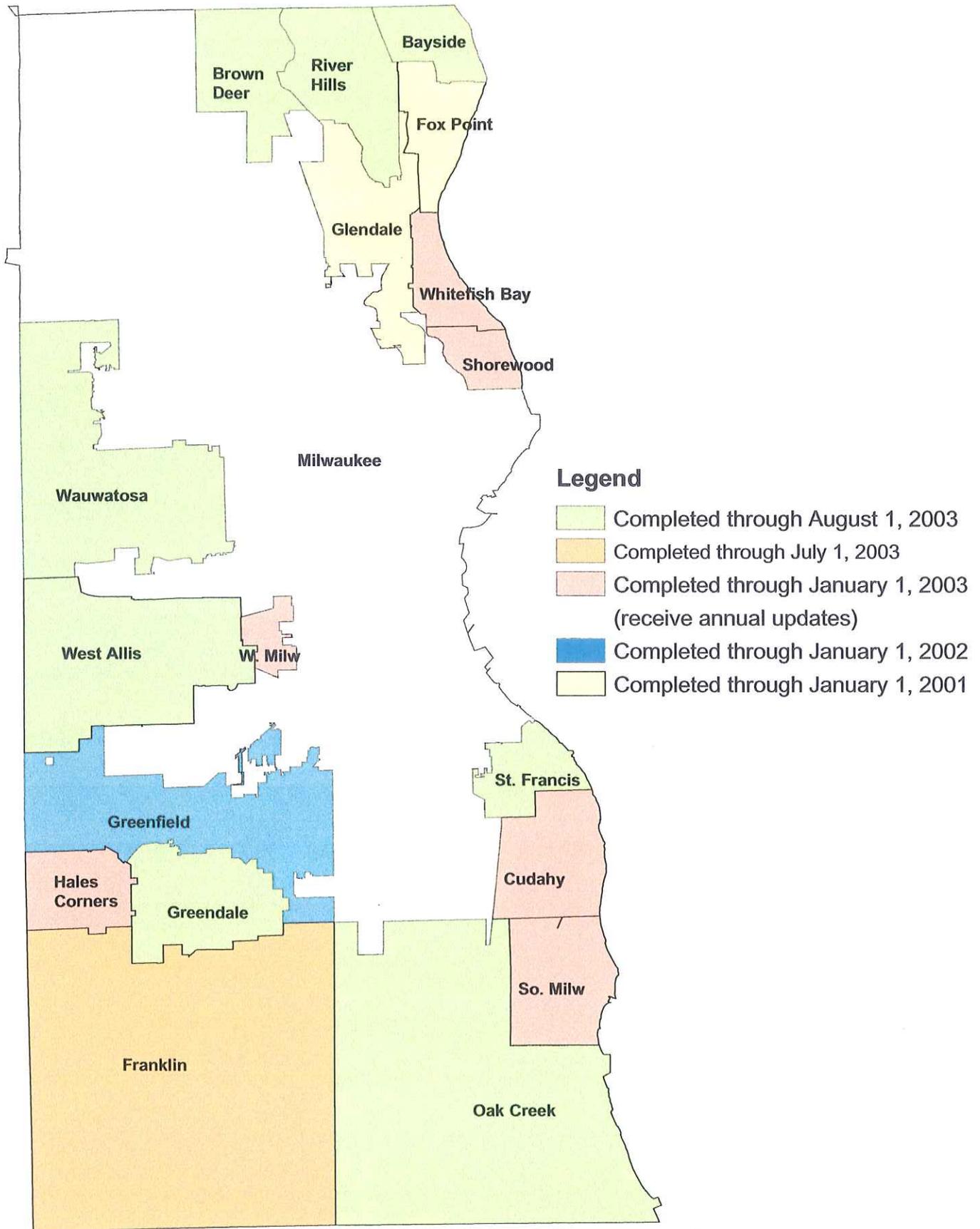
Enclosures

cc: Mr. Gregory High, Milwaukee County Department of Public Works
Mr. Thomas Lewandowski, Milwaukee County Department of Administrative Services
Mr. Kevin White, Milwaukee County Department of Public Works
Mr. Thomas D. Patterson, MCAMLIS Project Manager

Milwaukee County Cadastral Status as of October 30, 2003



Milwaukee County Address Status as of October 30, 2003



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:

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MEMORANDUM

TO: MCAMLIS Steering Committee

FROM: SEWRPC Staff

DATE: October 31, 2003

**SUBJECT: STATUS REPORT NO. 8 ON MILWAUKEE COUNTY
FLOODLAND MAPPING PROJECT**

This memorandum sets forth the progress made on the Milwaukee County Floodland Mapping project from May 28, 2003 through October 31, 2003. This status report addresses project progress in the following three major areas and also identifies major issues that have arisen:

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

Overall, the Phase I portion of the project is about 70 percent completed. 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 May 28, 2003 through October 31, 2003, the following data acquisition activities were carried out:

- Work continued on coordination of the project work with the Milwaukee Metropolitan Sewerage District (MMSD), the Wisconsin Department of Natural Resources (WDNR), the Wisconsin Department of Transportation (WisDOT), and the City of Milwaukee. In general, where Phase I data have not been acquired, cooperative efforts are underway to obtain the data.
- Obtained from the City of Milwaukee the hydraulic model and construction drawings for the first phase of the U.S. Environmental Protection Agency (USEPA) Superfund project along the Little Menomonee River from the Union Pacific Railroad located just downstream of W. Brown Deer Road to W. Bradley Road.
- Obtained from Milwaukee County construction drawings of an existing bicycle trail bridge along the Little Menomonee River.

- Obtained a HEC-RAS model for the proposed Dean Road, Regent Road, and N. Point Drive bridges over Indian Creek.
- Obtained from the MMSD the record drawings for the Ryan Road pump station in the Oak Creek watershed.
- Obtained from the MMSD record drawings for the Lincoln Creek environmental restoration and flood control project.

HYDROLOGIC AND HYDRAULIC MODELING

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

Milwaukee River Watershed

- Completed a detailed review of the MMSD Lincoln Creek hydraulic model developed for design of the Lincoln Creek environmental restoration and flood control project. Revised the model to reflect as-built conditions as determined from the MMSD record drawings, the new large-scale topographic maps obtained by the MCAMLIS Steering Committee, and bridge surveys made by the City of Milwaukee.
- Work continued on review and revision of the U. S. Army Corps of Engineers HEC-RAS hydraulic model and on the USEPA SWMM hydrologic model for Beaver Creek.

Menomonee River Watershed

- Continued a detailed review of the planned year 2020 land use, existing channel condition hydrologic model for the Menomonee River watershed. The base model used was developed under previous Regional Planning Commission studies and revised and updated under the MMSD Phase 1 and 2 watercourse system planning efforts.
- Reviewed preliminary FEMA comments on the proposed Menomonee River watershed hydrologic methodology as described in a detailed SEWRPC Staff Memorandum that was provided to FEMA and WDNR in April 2003.
- Completed computation of water surface profiles for the 10-, 50-, 100-, and 500-year floodplain boundaries and the 100-year floodway boundaries along Underwood Creek and the South Branch of Underwood Creek in the Cities of Wauwatosa and West Allis.
- Completed work on the 100-year flood hydraulic model for the Little Menomonee River, incorporating information from the first phase of the U.S. Environmental Protection Agency Superfund project to remediate contamination of sediment through realignment of the channel. That realignment has been essentially completed from the Union Pacific Railroad to W. Bradley Road.
- Began work on Grantosa and Honey Creeks.

Kinnickinnic River Watershed

- Began a detailed review of the USEPA HSPF model developed for the Kinnickinnic River watershed under Phase 1 of the MMSD watercourse system management plan.
- Began work on Edgerton Channel/Wilson Park Creek.

FLOODLAND MAP PREPARATION

- Substantially completed delineation and digitizing of the 10-, 50-, 100-, and 500-year floodplain boundaries and the 100-year floodway boundary along the main stem of the Milwaukee River.
- Completed delineation, and preliminary digitizing of the 10-, 50-, 100-, and 500-year floodplain boundaries and the 100-year floodway boundaries along Underwood Creek and the South Branch of Underwood Creek in the Cities of Wauwatosa and West Allis.
- Prepared preliminary automated delineation of the Lincoln Creek 100-year floodplain boundary using the HEC-GeoRAS model and the digital terrain model recently developed along the stream under the MCAMLIS large-scale topographic mapping program.

MAJOR PROJECT ISSUES AND CONSIDERATIONS

Hydrologic Modeling Procedure Approvals—It was reported in the sixth and seventh status reports, dated January 10, 2003, and May 29, 2003, that, as part of their review of the hydrologic study for the Pike River watershed in Kenosha and Racine Counties, Post, Buckley, Schuh & Jernigan (PBS&J), the Federal Emergency Management Agency's (FEMA) map coordination contractor, was developing a set of standards for acceptable continuous simulation modeling studies. The final FEMA report entitled "Pike River Watershed Hydrology and Continuous Simulation Modeling Review and Summary," was issued on August 14, 2003. As we had speculated in past status reports, the PBS&J review and the resulting FEMA report support the continuous simulation modeling procedures as practiced by the Commission and the MMSD. The Commission wrote to FEMA and WDNR indicating Commission acceptance of the findings of the report; the Commission staff intention to proceed with continuous simulation modeling under the MCAMLIS floodplain mapping project; and asking that WDNR provide review comments on the hydrology memoranda that were submitted in 2002 and 2003 as described below.

SEWRPC Staff Memoranda summarizing the proposed hydrologic modeling approach for the Milwaukee River main stem, the entire Underwood Creek subwatershed, and the Menomonee River watershed were submitted to WDNR and FEMA on July 24, 2002, September 16, 2002, and April 24, 2003, respectively. Favorable reviews of the modeling approaches for the Milwaukee River main stem and the Underwood Creek subwatershed have been obtained from FEMA. Issues raised by FEMA regarding the Menomonee River watershed will be clarified and addressed by the Commission staff in a response which will recognize the findings of the August 14, 2003, FEMA report on continuous simulation hydrology. To date, there has been no response from the WDNR on any of the three memoranda; however, the Commission staff is continuing with the hydraulic modeling and floodplain mapping for the streams.

* * *

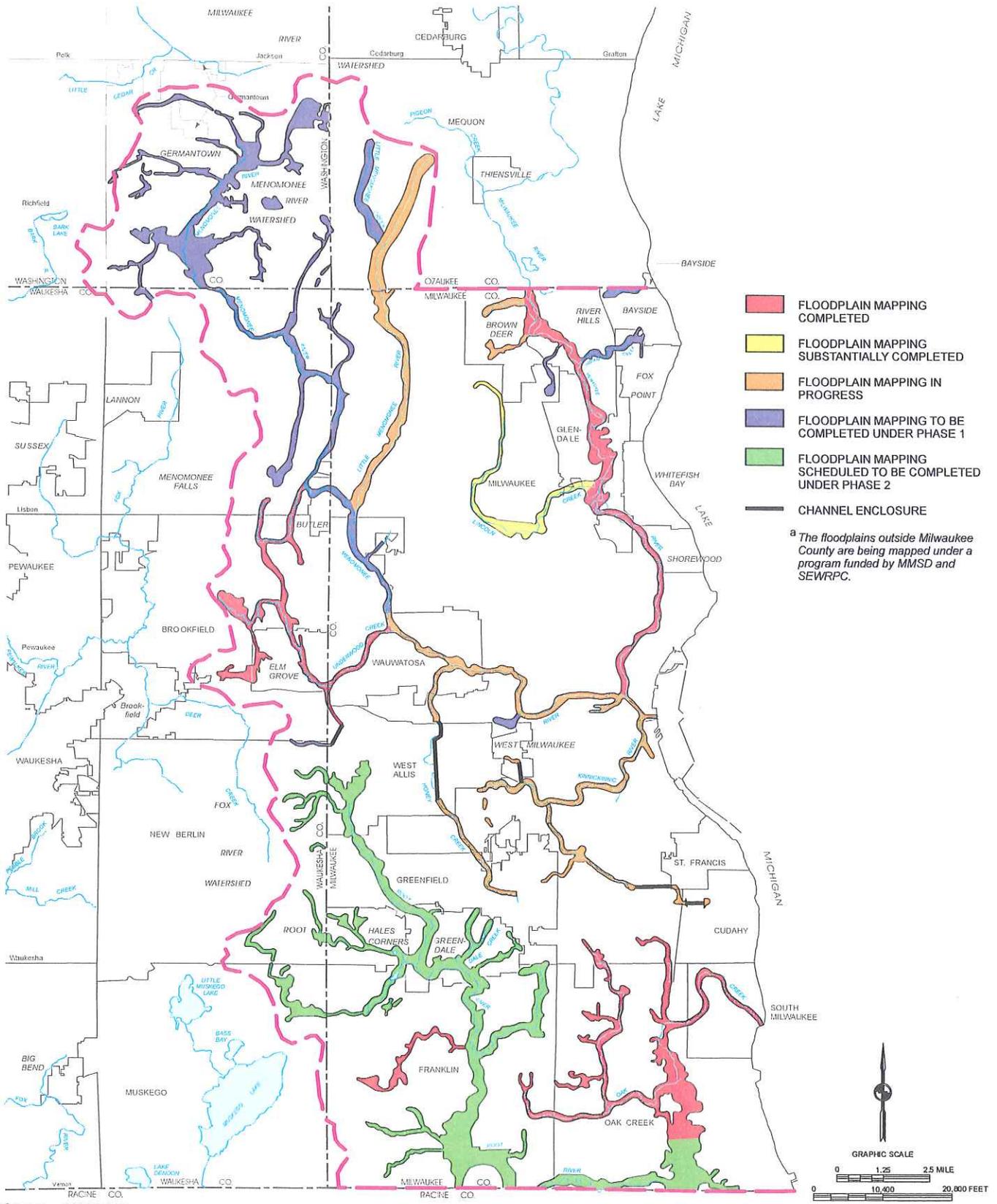
Exhibit 1

STATUS OF MCAMLIS MILWAUKEE COUNTY FLOODLAND MAPPING PROJECT: DECEMBER 31, 2002

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 I															
Kinnickinnic River Watershed				100											
Lake Michigan Coastal Flooding Areas						NA	NA	NA	NA	NA					
Lake Michigan Direct Drainage Area - Fish Creek			60												
Menomonee River Watershed									80			40			
Milwaukee River Watershed													80		
Oak Creek Watershed														100	
Legend Creek (Root River Watershed)															100

Exhibit 2

STATUS OF FLOODPLAIN MAPPING IN MILWAUKEE COUNTY AND IN MENOMONEE AND ROOT RIVER WATERSHEDS OUTSIDE MILWAUKEE COUNTY:^a OCTOBER 2003



Source: SEWRPC.

III 6

MEMORANDUM

TO: MCAMLIS Steering Committee
FROM: Milwaukee County Surveyor
DATE: November 15, 2003
SUBJECT: MILWAUKEE COUNTY SURVEYOR ACTIVITIES—2003

This memorandum is intended to provide the MCAMLIS Steering Committee with a report on the work of the Milwaukee County Surveyor through November 15, 2003. While the office and duties and functions of the County Surveyor are prescribed by Section 59.45 of the *Wisconsin Statutes*, in Milwaukee County the necessary work, pursuant to the direction of the County Board, is funded by document recording fees retained by the County pursuant to Section 59.43(2) of the *Wisconsin Statutes*. Since the MCAMLIS Steering Committee is charged by contract between Milwaukee County and the public and private utilities operating within the County with administering these retained recording fees, a report to the Committee on the activities of the County Surveyor is in order.

Within Milwaukee County, the U.S. Public Land Survey System has been combined with the State Plane Coordinate system and the National Geodetic Vertical Control System to provide the high order horizontal and vertical control survey network required for the preparation and maintenance of the MCAMLIS large-scale topographic and cadastral maps. Therefore, the work of the Milwaukee County Surveyor entails not only the maintenance of the U.S. Public Land Survey System as such, but also the maintenance of the MCAMLIS horizontal and vertical control survey network. As such, the work requires expertise in geodetic as well as plane surveying and in the legal aspects of property boundary determination.

Attached hereto as Exhibit A is a map of Milwaukee County on which are shown the location of all of the corners of the U.S. Public Land Survey System for which various types of perpetuation activities were undertaken during the year. These activities involved the replacement of section, quarter section, witness and meander corners which were reported as damaged, disturbed or destroyed by construction, or other activities or actions. The work involved the setting of new monuments, and, as necessary, the replacement of attendant witness marks and benchmarks. New records of U.S. Public Land Survey control station records—dossier sheets—were prepared for each corner concerned. A copy of a typical dossier sheet is also attached as Exhibit B. As indicated on Exhibit A, a total of 45 U.S. Public Land Survey corners were involved in the perpetuation activity from January 1, 2003, through November 15, 2003. Some additional corner perpetuation work may be expected to be done between November 16, 2003 and December 31, 2003. In some cases, the perpetuation activity resulted in the determination of revised State Plane coordinate values for the corners and revised elevations for both the corners and the attendant benchmarks. In such cases, new control survey summary diagrams were prepared. A typical diagram is attached as Exhibit C.

Pursuant to State Statutes, Registered Land Surveyors must provide to the County Surveyor for filing copies of all plats of surveys other than land subdivision plats and certified survey maps prepared for surveys conducted within the County. Through November 15, 2003, the County Surveyor received, indexed, and filed 1,395 records of land surveys completed within the County, bringing the total number of records of land surveys completed within the County, which had been filed with the County Surveyor since the inception of this work in 1984, to 37,240. The filed records are indexed to permit retrieval by name of the surveyor concerned, the property owner concerned, the date of the survey plat, the civil division, and the U.S. Public Land Survey one-quarter section within which the plat is located.

The County Surveyor also assists MCAMLIS in the preparation of contracts and specifications for large scale topographic and cadastral mapping and for special projects, such as the mapping of hazards to air navigation in the vicinity of General Mitchell International Airport.

KWB/dps

#88632v1 - SURVEYOR REPORT TO MCAMLIS

Attachments

Exhibit A

SUMMARY OF U.S. PUBLIC LAND SURVEY SYSTEM CORNER AND CONTROL SURVEY PERPETUATION IN MILWAUKEE COUNTY: JANUARY 1 THROUGH NOVEMBER 15, 2003

- U.S. PUBLIC LAND SURVEY CORNERS PROPOSED TO BE REMONUMENTED BETWEEN NOVEMBER 16, 2003 AND DECEMBER 31, 2003 (12)
- U.S. PUBLIC LAND SURVEY CORNERS WHICH WERE REMONUMENTED AND/OR REFERENCED IN 2003 (45)

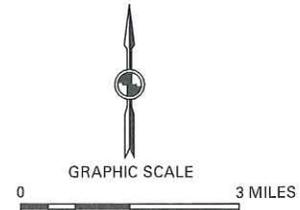
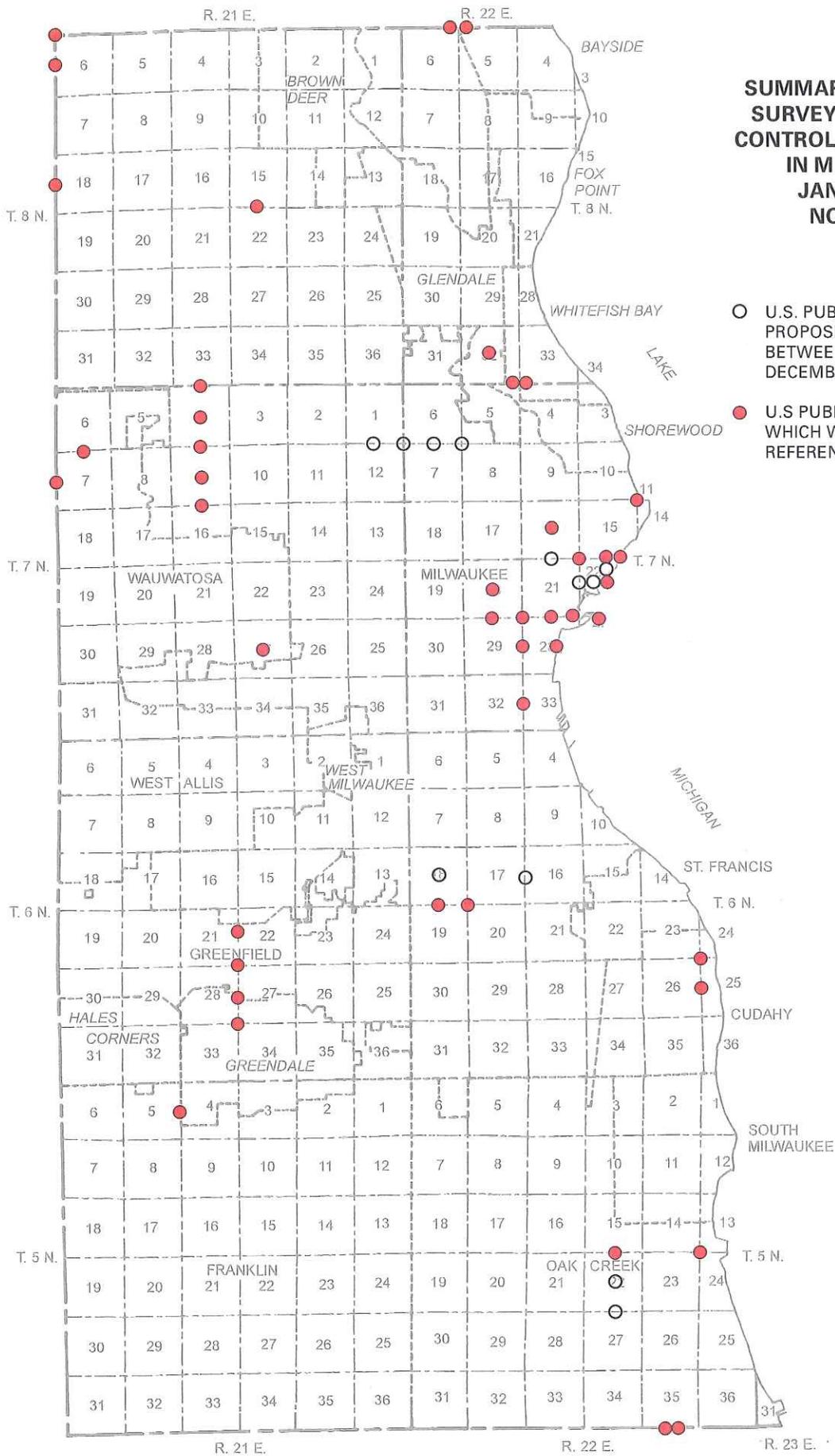


Exhibit B

RECORD OF U. S. PUBLIC LAND SURVEY CONTROL STATION

U. S. PUBLIC LAND SURVEY CORNER $\frac{12}{12}$ $\frac{7}{7}$ T 7 N, R 20/21 E, WAUKESHA/MILWAUKEE COUNTY, WISCONSIN

HORIZONTAL CONTROL SURVEY BY: AERO-METRIC, INC. YEAR: 1978
 VERTICAL CONTROL SURVEY BY: SEWRPC YEAR: 1998/2003

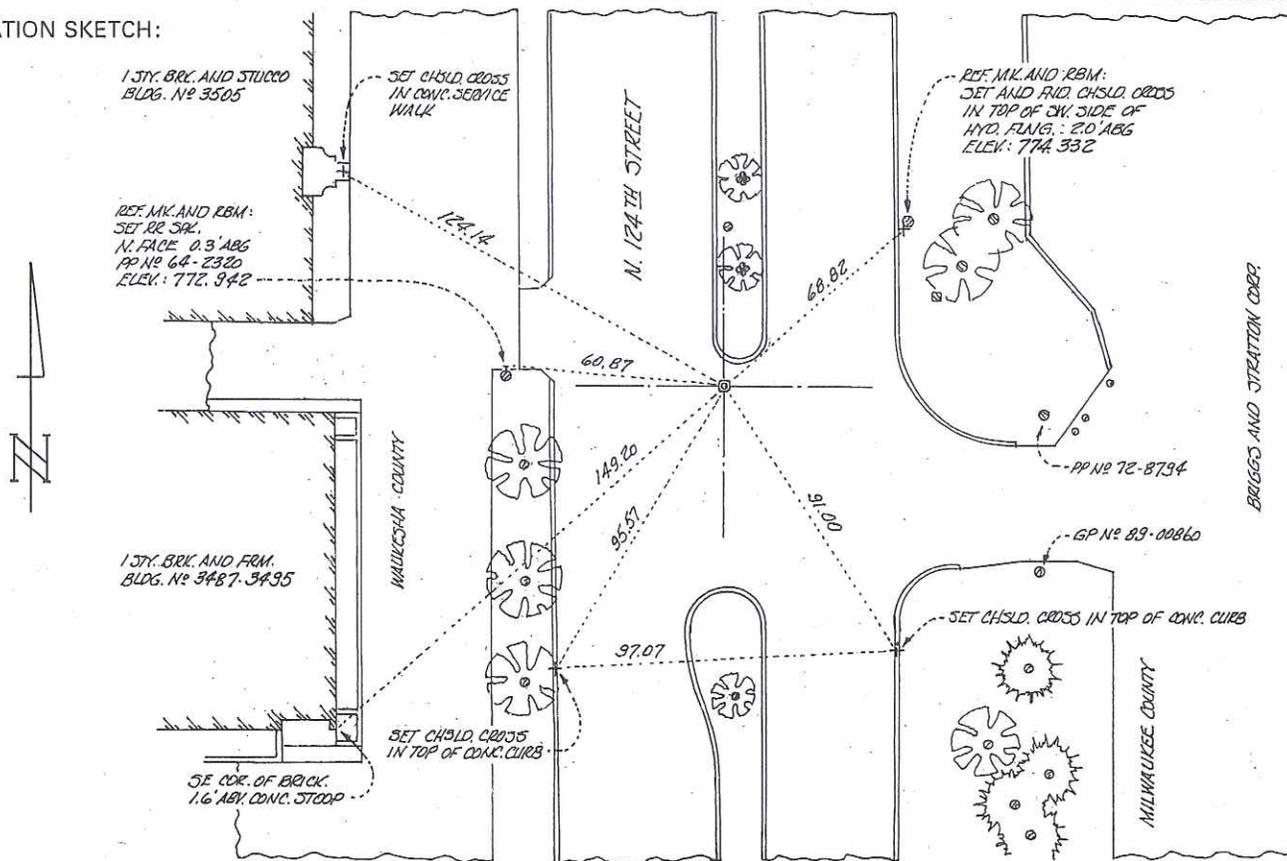
STATE PLANE COORDINATES OF: QUARTER SECTION CORNER
 NORTH 400,233.00
 EAST 2,516,545.47
 ELEVATION OF STATION: 772.703

HORIZONTAL DATUM: WISCONSIN STATE PLANE COORDINATE SYSTEM, SOUTH ZONE
 NORTH AMERICAN DATUM OF 1927

VERTICAL DATUM: NATIONAL GEODETIC VERTICAL DATUM OF 1929 THETA ANGLE: +01-19-43

CONTROL ACCURACY:
 HORIZONTAL: THIRD ORDER, CLASS I VERTICAL: SECOND ORDER, CLASS II

LOCATION SKETCH:



SURVEYOR'S AFFIDAVIT:

STATE OF WISCONSIN)
MILWAUKEE COUNTY) SS

As County Surveyor for Milwaukee and Waukesha Counties, I hereby certify that I set a concrete monument with SEWRPC brass cap to mark this corner following street reconstruction; replacing a brass plug set in the concrete pavement as found and referenced by me in July 1986, said plug having been set to mark this corner in September 1969 by the City Engineer of the City of Wauwatosa, following street reconstruction; replacing a railroad spike set in the bituminous pavement then marking this corner, said spike known to have been used in land surveys dating back to at least 1960; that, during excavation to set the concrete monument referenced herein, an old, subsurface, 1.6 feet long, cut limestone monument with cross was found under the location of the brass plug; said limestone monument having been found as marking this corner in December 1947 by the firm of H.C. Webster & Son; and said limestone monument having been set to mark this corner in November 1877 by William S. Trowbridge, Surveyor, in the conduct of the remonumentation of the U.S. Public Land Survey system in the Town of Wauwatosa; replacing in turn a wood post set to mark this corner in 1836 by John Mullett, Deputy United States Surveyor, in the conduct of the original United States Public Land Survey; that I referenced the same, as shown, hereon; and that this record is

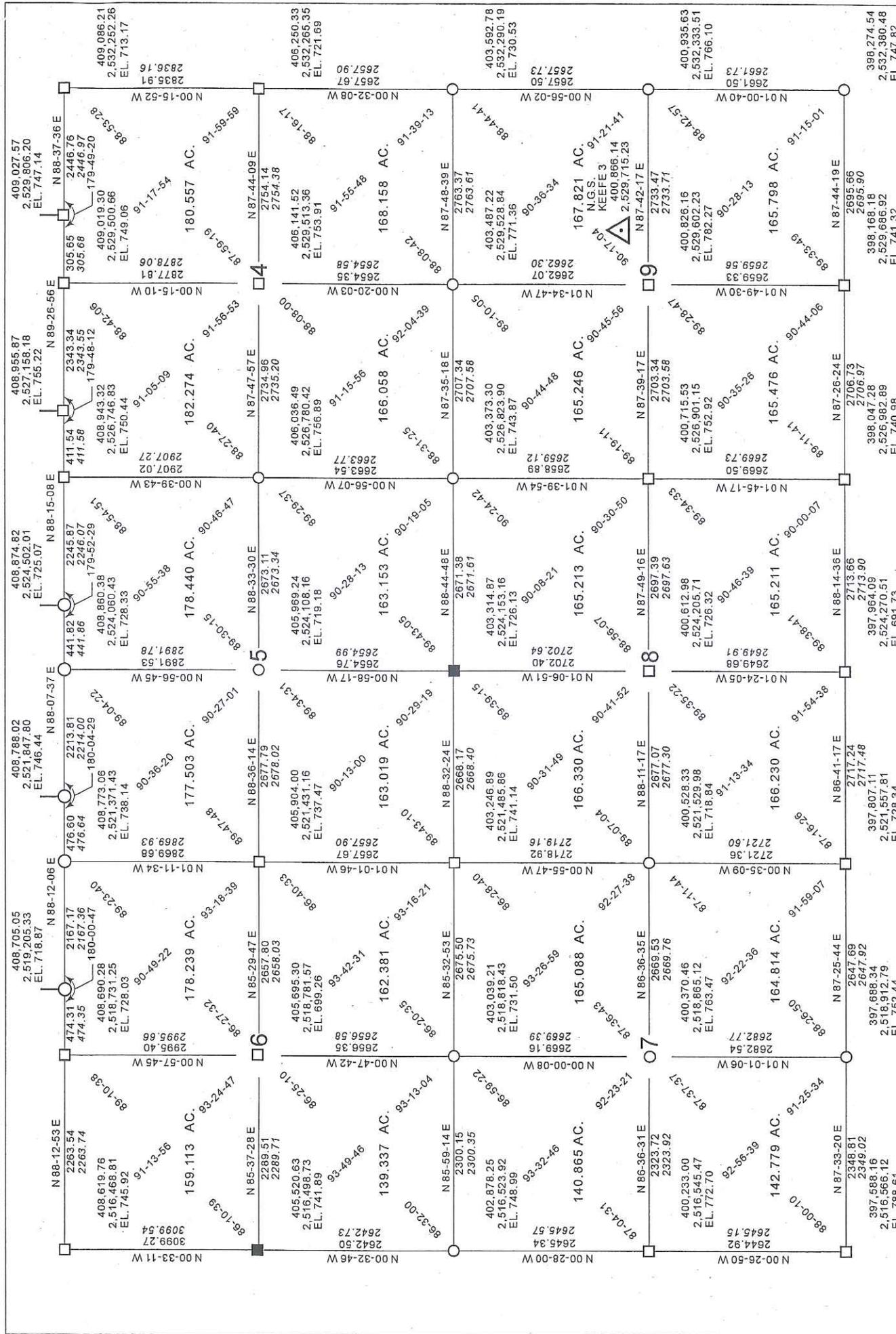
DATE OF SURVEY: 15 October 2003

Kurtl Bauer
 REGISTERED LAND SURVEYOR



S - 157

Exhibit C



CONTROL SURVEY SUMMARY DIAGRAM
FOR
SECTION SURVEYS
IN THE
CITIES OF MILWAUKEE AND WAUWATOSA
MILWAUKEE COUNTY, WISCONSIN

LEGEND

- U.S. PUBLIC LAND SURVEY CORNER, MONUMENT WITH SEWAPPC BRASS CAP AND ALL BEARINGS ARE REFERRED TO TO GRID NORTH.
- U.S. PUBLIC LAND SURVEY CORNER, MONUMENT WITH BRASS CAP. DIMENSIONS SHOWN IN ITALICS INDICATE REDUCTION FACTOR: 0.99951250
- U.S. PUBLIC LAND SURVEY CORNER, MARKED BY OTHER MONUMENTATION.
- △ N.G.S. HORIZONTAL DATUM OF 1955, CONTROL STATION.

HORIZONTAL DATUM IS BASED ON THE WISCONSIN STATE PLANE COORDINATE SYSTEM. ALL BEARINGS ARE REFERRED TO TO GRID NORTH.

SECTIONS

6, 5, 4,
7, 8, 9,
T. 7 N. R. 21 E.
MILWAUKEE
COUNTY

DOSSIER SHEETS CONTAINING
FOR RECORD AND USE ONLY
CONTROL SURVEY STATIONS
AVAILABLE FROM SEMRPC.

DRAWN BY: D. P. SIMON
CHECKED BY: L. H. KREBLIN
APPROVED BY:
REVISED: J. C. JOHNSON

DATE: NOV, 1978
DATE: NOV, 1978
DATE: AUG, 1980
DATE: JUN, 2003
DATE: APR., 2001

2836.91
2836.16
EL. 713.17
2836.91
2836.16
EL. 713.17

398,274.54
2,532,380.48
EL. 747.82

EXECUTED LICENSE AGREEMENTS

Number of Executed Agreements		Licensee	Effective Date
Since 1995	For 2003	2003	
90.	1.	North Shore Fire Department	1/13/03
91.	2.	Planning & Design Institute, Inc.	2/6/03
92.	3.	Nancy M. Aten	2/12/03
93.	4.	Graef, Anhalt, Schloemer and Associates, Inc.	4/2/03
94.	5.	Sandridge Commercial Real Estate, LLC	4/25/03
95.	6.	Bloom Consultants LLC	7/11/03
96.	7.	Landscape Architects, Inc.	7/22/03
97.	8.	Jenkins Survey and Design, Inc.	7/23/03
98.	9.	Access Engineering LLC	7/30/03

III

	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	10/31/2003	TOTAL
	Actual	Actual	Actual	Actual	Actual	Actual	Actual	Actual	Actual	Actual	Actual	Actual	Actual	Actual	
Beginning Period Reserve-January	0	283,340	495,922	573,049	295,130	1,060,413	1,310,646	1,274,859	1,082,318	1,125,752	1,108,688	564,460	183,752	-141,197	-141,197
Mid-Year Reserve Changes	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Current Period Reserve	0	283,340	495,922	573,049	295,130	1,060,413	1,310,646	1,274,859	1,082,318	1,125,752	1,108,688	564,460	183,752	-141,197	-141,197
Recording Fees (\$4.00 Portion)	101,886	324,983	612,592	676,093	647,355	503,342	574,328	644,508	769,820	773,078	609,683	743,977	918,012	970,762	8,870,419
Recording Fees (\$1.00 Portion)	0	0	0	0	0	0	0	0	0	0	0	72,968	230,597	243,743	547,308
State Grants	0	0	0	150,000	200,000	165,000	138,500	55,300	139,226	152,270	103,895	325,997	197,979	167,680	1,795,847
1 Private Utility Contributions	312,000	312,000	312,000	312,000	312,000	0	0	0	0	0	0	0	0	0	1,560,000
2 MMSD Contribution	0	0	0	50,000	50,000	50,000	50,000	50,000	50,000	50,000	170,000	0	0	0	520,000
Annual Revenue	413,886	636,983	924,592	1,188,093	1,209,355	718,342	762,828	749,808	959,046	975,348	889,578	1,142,942	1,346,588	1,382,185	13,293,574
TOTAL FUNDS AVAILABLE	413,886	920,323	1,420,514	1,761,142	1,504,485	1,778,755	2,073,474	2,024,687	2,041,364	2,101,100	1,992,266	1,707,402	1,530,340	1,240,988	13,152,377
Additional Encumbrance	100,000	22,075	534,849	272,943	-900,864	112,087	308,902	367,776	361,580	386,754	586,545	737,559	577,619	321,999	3,789,804
Legal Fees	0	350	600	0	0	0	0	0	0	0	0	0	0	0	950
Systems Consulting (UGC)	0	128,638	0	0	0	0	0	0	0	0	0	0	0	0	128,638
USPLS Reimbursement	0	41,260	0	0	0	0	0	0	0	0	0	0	0	0	41,260
Horizontal/Vertical Control Surveys	0	144,443	0	0	0	0	0	0	0	0	0	0	0	0	144,443
Aerial Photos/Mapping	21,555	17,925	292,060	1,178,794	1,340,370	356,953	490,821	576,268	556,108	608,450	842,594	787,620	1,095,708	707,303	8,872,528
Project Facilitator	8,991	73,567	21,650	14,995	0	0	0	0	0	0	0	0	0	0	119,203
Conference	0	59	1,046	319	0	0	528	0	0	0	0	0	0	0	1,953
RoD Computer Hardware/Software	0	0	0	0	6,291	797	0	0	0	0	0	0	0	0	7,088
RoD Materials Copied	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Computer Maintenance	0	0	0	0	0	0	26	0	0	0	0	0	0	0	26
Computer/Office Supplies	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
DPW Needs Analysis	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IMSD Strategic Initiative	40	554	13	0	0	0	3	5	0	0	343	0	442	0	1,399
Contractual Crosscharges	0	-4,470	-2,752	-1,040	-1,724	-1,708	-1,664	-1,700	-2,116	-2,792	-1,676	-1,529	-2,232	-1,440	-26,843
Charges Paid By Other Department	0	0	0	0	0	0	0	0	40	0	0	0	0	0	40
Miscellaneous	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Annual Expenditures	30,586	402,326	312,616	1,193,069	1,344,936	356,042	489,713	574,573	554,032	605,658	841,261	786,091	1,093,918	705,863	9,290,685
TOTAL EXPS / ENCUMBRANCES	130,586	424,401	847,466	1,486,012	444,072	468,109	798,615	942,349	915,612	992,412	1,427,806	1,523,650	1,671,537	1,027,862	13,080,489
NET AVAIL FUNDS (END RESERVE)	283,300	495,922	573,049	295,130	1,060,413	1,310,646	1,274,859	1,082,318	1,125,752	1,108,688	564,460	183,752	-141,197	213,126	71,888

1. 1994 was the final year for this revenue source.
 2. \$50,000 will be paid each year through 2000, and \$20,000 in 2003.

COUNTY EXECUTIVE'S 2004 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 of documented accuracy suitable for local planning.

Pursuant to Section 59.43, funding for a land information office, modernization of land records and the State of Wisconsin Land Information Program and Board is collected via a seven-dollar surcharge on the County's existing four-dollar Recording Fee. Four dollars of the additional seven-dollar surcharge are retained locally and specifically designated for expenditures associated with the creation, maintenance, and enhancement of the Milwaukee County Automated Land Information System within guidelines established by the Wisconsin Land Information Board (WLIB). One dollar of the additional seven-dollar surcharge is also retained locally and specifically designated for expenditures associated with initiatives to develop and maintain a computerized indexing of the County's land

information records relating to housing, including the housing element of the County's land use plan under Section 66.001(2)(b) (Smart Growth law) also within guidelines established by the WLIB. (No portion of the four dollar and one dollar surcharges are available for general County purposes.) Two dollars of the additional seven-dollar surcharge are forwarded to the WLIB. The County continues to retain its four dollar share of the Recording Fee.

Pursuant to Section 59.72 of 1997 Wisconsin Act 27, the \$1 and \$2 components of the \$7 surcharge were scheduled to no longer be collected effective September 1, 2003, and the initial MCAMLIS Requested Budget reflected a commensurate reduction. Changes made in mid-2003 to this existing legislation extend collection of these components of the surcharge into 2005. The Budget has been adjusted to reflect continued receipt of this revenue.

Previous Register of Deeds Recording Fees	\$4
Fee for MCAMLIS	4
Fee for Land Records Modernization Initiatives	1
Fee for State Land Information Board	<u>2</u>
	\$11

BUDGET SUMMARY				
	2002 Actual	2003 Budget	2004 Budget	2003/2004 Change
Services	\$ 1,095,708	\$ 999,000	\$ 911,500	\$ (87,500)
County Service Changes	0	1,000	1,000	0
Abatements	(2,232)	0	0	0
Total Expenditures	\$ 1,093,476	\$ 1,000,000	\$ 912,500	\$ (87,500)
Encumbrances	0	0	0	0
Total Expenditures & Encumbrances	1,093,476	1,000,000	912,500	(87,500)
State Grants	\$ 197,979	\$ 150,000	\$ 100,000	\$ (50,000)
Sewer District & Utility Contributions	0	0	0	0
Recording Fee Surcharge	1,148,609	850,000	812,500	(37,500)
Total Revenue	1,346,588	1,000,000	912,500	(87,500)
Contribution to Reserve Account	\$ 253,112	\$ 0	\$ 0	\$ 0
Property Tax Levy	\$ 0	\$ 0	\$ 0	\$ 0

III m.

November 7, 2003

To: MCAMLIS Steering Committee
From: John La Fave, Milwaukee County Land Information Officer, Milwaukee County Register of Deeds
Re: Projects utilizing the \$1 retained fee

The MCAMLIS Steering Committee has asked that I that I develop a list of projects that will utilize the \$1.00 of each \$5.00 of the locally retained fees in keeping with the spirit and requirements of Wisconsin statute s.66.1001(2)(b).

The MCAMLIS Steering Committee previously authorized The Register of Deeds (ROD) to use up to \$240,000 for an upgrade of the software used for the ROD land records system. ROD expects to accomplish the software upgrade in 2004.

Request: an additional \$25,000 to upgrade to an integrated, automated electronic recording program. ROD has spent approximately \$12,000 of the \$20,000 that MCAMLIS previously authorized to enable electronic recording. This was used to purchase hardware and software to take advantage of a one-year free trial offer from Ingeo, Inc. to use their stand-alone non-integrated program. Electronically recorded documents now represent 4 to 5% of Milwaukee County's recordings, an average of 50 documents per day. The quantity of E-Recordings continues to increase which dictates that ROD purchase the integrated program for electronic recording.

Request: \$40,000 for the purchase of hard drive/file space. Document images are currently stored on and retrieved from optical platters/CDs, which are stored in a so-called jukebox. This mechanical storage system is approaching obsolescence. ROD would like to store images in a new hard drive/image server which will have fewer problems, less interruptions and will provide a much faster process, especially for retrieving images.

Request: \$200,000 for the conversion of microfiche images to digital format. ROD document images exist digitally only for recordings from 1-1-2000 forward. The cost to digitize microfiche images for five years, 1995-1999, is approximately \$100,000 to \$200,000. The public can now access Milwaukee ROD document images on the Internet and will appreciate the addition of prior years of images.

Request: \$20,000 to provide access to the Federal Tax Lien (FTL) database on the Milwaukee County web site. MCAMLIS previously funded the creation of an FTL database in the Register of Deeds. This project would allow the public to access this information on the Internet.

Request: \$3,000 to create a File Transfer Protocol (FTP) site. Currently customers purchase CDs that contain document images. The creation of an FTP site will provide customers with a faster means of accessing this data. ROD staff time producing CDs will be eliminated.

**Status Report
Milwaukee City and County Cooperative Research on Map Maintenance**

On July 22nd, the City met with the County Register of Deeds office to discuss the issues of tax listing and ultimately the maintenance of the City MCAMLIS Cadastral maps. We began with a tax listing discussion because the issue of maintaining the City of Milwaukee cadastral maps at the County is complicated by the fact that the County does not perform the tax listing functions. This means that the County MCAMLIS staff does not have access to the same data sources and details to maintain the maps as with the other communities in the County for which map maintenance is currently being performed. Since the process of tax listing is significantly different between the City and County this initial meeting discussed the process for both recorded documents inside the City of Milwaukee and outside.

The City of Milwaukee Assessor is exploring opportunities to reduce the duplicate effort between the City and County tax listing process. While this is a worthwhile effort, administrative and political changes at the City may make any progress difficult until 2004.

Email communication between the ROD's office (Kathy) and the City's ITMD office (Nancy) will continue in an effort to find a work around for the map maintenance. To date, we have not found a reasonable work around using the data readily available to the County.

MCAMLIS Copyright Memorandum

October 10, 2003

*Recommend
another meeting
to have SBC present
and then vote on
copyright issue*

- Hardy to arrange this meeting

MCAMLIS Copyright Memorandum

Date: October 10, 2003

To: Thomas D. Patterson
MCAMLIS Project Manager

From: Reinhard Meihnsner, President
Spatial Data Solutions, Inc.

Re: Report Summary, MCAMLIS Copyright Meeting

Time: Tuesday, September 23, 2003

Place: Milwaukee County Courthouse
Department of Administrative Services
Conference Room 308

Sub-committee Members Present

William Finke	Counsel, WE Energies
John Place	Manager, Maps and Records, WE Energies
William Shaw	Manager, Geographic Information Systems, WE Energies

Sub-committee Members Absent

Dextra Hadnot	Director, External Affairs, SBC
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Milwaukee County Representatives Present

Gary Drent	Fiscal & Budget Manager, Architectural and Engineering Services Milwaukee County Department of Public Works
Greg G. High	Director, Architectural and Engineering Services Milwaukee County Department of Public Works
John LaFave	Register of Deeds, Milwaukee County
Thomas F. Lewandowski	Fiscal and Management Analyst, Department of Administrative Services, Milwaukee County

Milwaukee Metropolitan Sewerage District (MMSD) Representative Present

David Misun	Facilities Information Supervisor, MMSD
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MCAMLIS Staff Present

Thomas D. Patterson	MCAMLIS Project Manager
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MCAMLIS Land and Utility Information System Internet Prototype

At its meeting held on August 29, 2000, the MCAMLIS Steering Committee approved a prospectus to investigate a Land and Utility Information System Prototype. The Southeastern Wisconsin Regional Planning Commission, acting on behalf of the Steering Committee, retained Ruckert/Mielke, Inc., to carry out the tasks outlined in the prospectus. A Technical Advisory Committee comprised of representatives from the MCAMLIS consortium and several representatives from the communities selected as pilot areas for the project, worked with Ruckert/Mielke, Inc., and SEWRPC to develop three reports that summarized the findings of the investigation. A fourth and final report provided the recommendations for the Steering Committee's consideration.

As part of the investigation into the feasibility of implementing a web-supported land information system, issues concerning the existing MCAMLIS copyright and attendant licensing agreement and data distribution practices were discussed by the Technical Advisory Committee. The Committee's conclusion was that the current licensing arrangement restricted the distribution of MCAMLIS digital mapping materials, unnecessarily controlled the use of this information, and, perhaps, limited enhancements that could benefit all users of the information. In the opinion of the Technical Advisory Committee, the distribution of MCAMLIS digital mapping materials in an Internet environment would be complicated by the existing copyright, the attendant license agreement requirement, and the associated data distribution guidelines. The Technical Advisory Committee recommended elimination of the copyright licensing requirement and associated distribution guidelines.

Copyright and License Agreement Background

Under a License Agreement entered into on December 9, 1993, Milwaukee County, the Milwaukee Metropolitan Sewerage District, Wisconsin Bell, the Wisconsin Electric Power Company, and the Wisconsin Gas Company -- the funding partners of the MCAMLIS program -- established a formal arrangement pertaining to matters of copyright ownership and use of MCAMLIS digital mapping materials (copy of License Agreement attached). The agreement distinguished between hard copy and digital mapping materials. Under the terms of the License Agreement, the Steering Committee retained copyright title to all hard copy maps. A subcommittee of the Steering Committee, comprised of Wisconsin Bell (now SBC Ameritech), Wisconsin Electric Power Company (now WE Energies) and Wisconsin Gas Company (also now WE Energies), was granted copyright title by the Steering Committee to the digital mapping materials prepared under the MCAMLIS work program.

Assignment of the copyright to the investor-owned utilities was, in large part, the result of two concerns. First, the utilities had an interest in knowing that the value of their individual \$520,000 investments would not be undermined by an outside party acquiring the data at minimal cost and using or reselling the data for profit. Second, there was an opinion that the licensing process might present an opportunity for the generation of revenue that could help to offset the costs of maintenance and the development of new applications for MCAMLIS. To date, no entity has expressed any substantive interest in acquiring the information at the \$520,000 amount and assessing an alternative charge over and above the cost to reproduce the data, but less than \$520,000, has not been considered by the Subcommittee or the MCAMLIS Steering Committee.

At its meeting held on October 17, 1995, the MCAMLIS Steering Committee adopted the "MCAMLIS Data Requisition and Distribution Guidelines" which implemented the above referenced License Agreement between the funding organizations. These guidelines required the execution of a separate License Agreement between the Utilities Subcommittee and the governmental unit or other entity wishing

to obtain access to the MCAMLIS digital mapping materials. The MCAMLIS Steering Committee was, and still is, comprised of representatives of the funding partners noted above with one additional representative each from the City of Milwaukee and the Intergovernmental Cooperation Council of Milwaukee County.

MCAMLIS Copyright and Attendant License Agreement Review

Based on the recommendation from the MCAMLIS Land and Utility Information System Committee report to eliminate the copyright and attendant licensing requirement, the MCAMLIS Steering Committee requested a staff review of the current copyright and attendant License Agreement practices. In addition to the review, the Steering Committee also requested the preparation of a memorandum report that would set forth the position of the Subcommittee concerning the continuation, modification, or abandonment of the licensing practices. Acting in its capacity as staff to the MCAMLIS Steering Committee, SEWRPC contracted with Spatial Data Solutions, Inc., to assist with the completion of the review and preparation of the report.

Meetings were arranged with appropriate individuals representing the subcommittee members who were not involved with the MCAMLIS program when the original copyright and licensing practices were established. These meetings were intended to brief the newer representatives on the history and current interest concerning the issue. A meeting was then arranged with the entire subcommittee to discuss the issues and to set forth a Subcommittee recommendation concerning the continuation, modification, or abandonment of the current License Agreement. At the conclusion of that meeting, the following positions had been established:

- WE Energies staff present at the meeting stated that the WE Energies subsidiary firms, Wisconsin Electric Power Company and Wisconsin Gas Company, did not see any benefit to their respective companies in continuing to hold the copyright to the MCAMLIS digital mapping materials; however, it was acknowledged that the concurrence of SBC Ameritech should be sought before the copyright was surrendered or abandoned by the Utilities Subcommittee.
- Meeting participants were of the opinion that if the utility subcommittee members were willing to surrender the rights and privileges granted by the copyright, then a decision concerning whether or not to abandon the copyright should be made by the MCAMLIS Steering Committee since the MCAMLIS Steering Committee had made the original grant of the copyright to the utilities subcommittee.
- Milwaukee County representatives present at the meeting stated that there might be value in the MCAMLIS Steering Committee holding the copyright, or in the event that the Steering Committee had no interest in holding the copyright, in assigning the copyright to Milwaukee County.
- Meeting participants agreed that in the event a copyright continued to be exercised with respect to the MCAMLIS digital mapping materials by any entity other than the Utilities Subcommittee, then Sections 2 and 8 of the copyright license agreement between the funding partners of the MCAMLIS program should be revised to reflect the fact that the investor owned utilities no longer held the copyright. This would also require revision of the current licensing requirements and practices for non MCAMLIS Steering Committee members who wished to acquire the MCAMLIS digital mapping materials.

- Meeting participants acknowledged that any decision to transfer or modify the assignment of the copyright would require appropriate revision to the current "MCAMLIS Data Requisition and Distribution Guidelines" document.
- Meeting participants recommended that any changes made to copyright ownership and licensing requirements be discussed with and reviewed by intellectual property counsel at Quarles & Brady, the firm that assisted the Steering Committee in establishing the initial copyright assignment and attendant licensing agreements.

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RBM/TDP/lw
#87781 v1 - MCAMLIS Copyright Memo