DEPARTMENT OF TRANSPORTATION & PUBLIC WORKS
MILWAUKEE COUNTY LAND INFORMATION OFFICE

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

MEMORANDUM

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

FROM: William C. Shaw, MCAMLIS Project Manager

DATE: July 15, 2009

SUBJECT: MCAMLIS 78th Steering Committee Meeting Materials

Enclosed please find a set of materials that the steering committee will take up at its scheduled July 21st meeting.

I. Meeting Agenda

II. Meeting Minutes of the 77th Steering Committee meeting held March 24th, 2009

III. Reports

A. Report materials on the Milwaukee County street address and cadastral map maintenance operations

B. Report materials on City of Milwaukee cadastral map maintenance operations

C. Report materials related to the MCAMLIS Enterprise Address Project

D. Report materials related to the MCAMLIS Pictometry Oblique Imagery Acquisition Project

E. Report materials related to the MCAMLIS Milwaukee County Plats of Survey Project

F. Report materials related to the MCAMLIS 2008 LiDAR pilot project

G. Report materials related to the status of actions taken regarding MCAMLIS Copyright protections

H. Report materials related to the 2008 Milwaukee County Surveyor activities

I. Report materials related to the status of MCAMLIS Floodland Mapping Project

J. Report materials related to the status of the Regional Water Study

K. Report materials related to the MCAMLIS Fiscal status

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MILWAUKEE COUNTY AUTOMATED MAPPING AND LAND INFORMATION SYSTEM

Seventy-Eighth Steering Committee Meeting

AGENDA

Date: July 21st, 2009
Time: 9:00 a.m.
Place: Milwaukee County
City Campus, Room 349
2711 W Wells St.
Milwaukee, WI. 53208

I. Roll Call

II. Meeting Minutes

Consideration of the minutes of the 77th Steering Committee meeting held March 24th, 2009.

III. Reports

A. Report by Milwaukee County Register of Deeds staff on MCAMLIS street address and cadastral map maintenance operations.

B. Report by City of Milwaukee staff on MCAMLIS cadastral map maintenance operations.

C. Report by MCAMLIS staff on the status of the Enterprise Address Project.

D. Report by MCAMLIS staff on the status of the Pictometry Oblique Imagery Project.

E. Report by MCAMLIS staff on the status of the Milwaukee County Plats of Survey Project.

F. Report by MCAMLIS Staff on the status of 2008 LiDAR pilot project.

G. Report by MCAMLIS Staff on the status of actions taken regarding MCAMLIS Copyright protections

H. Report by Milwaukee County Surveyor on the status of the 2008 Milwaukee County Surveyor activities.

I. Report by SEWRPC staff on the status of MCAMLIS Floodland Mapping Project.

J. Report by SEWRPC staff on the status of the Regional Water Study

K. Report by Milwaukee County DAS staff on MCAMLIS Fiscal status.

IV. Old Business

A. None

V. New Business

A. None

VI. Correspondence

VII. Date, time, and place of next meeting

VIII. Adjournment

MINUTES OF THE 77th MEETING
Milwaukee County Automated Mapping and Land Information System
Steering Committee

Date: Tuesday, March 24, 2009
Time: 9:00 a.m.
Place: Milwaukee County City Campus
2711 W. Wells Street
Room 349
Milwaukee, WI 53208

Members Present

Kurt W. Bauer, Chairman	Milwaukee County Surveyor
Donald R. Nehmer, Vice Chairman	Capital Program Business Manager, Milwaukee Metropolitan Sewerage District
John C. Place	Manager, Gas Engineering and Mapping, We Energies
John M. Bennett	City Engineer, City of Franklin, representing the Intergovernmental Coordinating Council of Milwaukee County
Nancy A. Olson	Chief Information Officer, Information and Technology Management Division, City of Milwaukee
Alexandra Kotze	Fiscal Management Analyst, representing Cynthia Archer, Director, Milwaukee County Department of Administrative Services
John L. La Fave, LIO	Milwaukee County Register of Deeds

Members Absent

Gregory G. High	Director, Architecture, Engineering and Environmental Services Division, Milwaukee County Department of Transportation and Public Works, representing the Director, Milwaukee County Department of Transportation and Public Works
Donald L. Coe	Supervisor, Facilities Location, Customer Operations, We Energies
Kevin S. Anderson	Area Manager - Design, AT&T Milwaukee Metro South

Guest and Staff Present

Gary E. Drent	Fiscal and Budget Manager, Milwaukee County, DTPW/AE&ES
William C. Shaw	MCAMLIS Project Manager, Milwaukee County DTPW/AE&ES
Tammy Bronson	City of Milwaukee, Information and Technology Management Division

Kathleen Bach	Milwaukee County, Register of Deeds
Marcia Lindholm	City of Milwaukee
Kevin Bruhn	GIS Specialist, Milwaukee County, DTPW/AE&ES

I. ROLL CALL

The Seventy-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.

II. SPECIAL ORDER OF BUSINESS - ELECTION OF 2009 MCAMLIS STEERING COMMITTEE OFFICERS

Bauer: Noted that a report from the nominating committee had been distributed.

Bennett: Nominating committee recommends Dr. Kurt W. Bauer as Chairman and Mr. Donald Nehmer as Vice Chairman and recommends that Milwaukee County staff serve as secretary.

Motion: **Bennett; to accept nominating committee recommendations**

Second: **La Fave; motion carried unanimously**

III. MEETING MINUTES - CONSIDERATION OF THE MINUTES OF THE 76TH STEERING COMMITTEE MEETING HELD DECEMBER 2, 2008.

Bauer: Noted that a copy of the minutes had been provided prior to the meeting and asked if there were any additions or corrections.

Motion: **Nehmer; moved to accept the minutes**

Second: **Drent; motion carried to accept minutes (Bennett abstaining from vote due to absence at last meeting)**

IV. REPORTS

IV(A) REPORT BY MILWAUKEE COUNTY REGISTER OF DEEDS STAFF ON MCAMLIS STREET ADDRESS AND CADASTRAL MAP MAINTENANCE OPERATIONS.

Bach: Directed the Committee to the report included with the meeting material

Bauer: Stated for the minutes that the report was accepted and placed on file.

IV(B) <u>REPORT BY CITY OF MILWAUKEE STAFF ON MCAMLIS CADASTRAL MAP MAINTENANCE OPERATIONS.</u>

Bronson: Directed the Committee to the report include with the meeting material

Bauer: Stated for the minutes that the report was accepted and placed on file.

IV(C) <u>REPORT BY MCAMLIS STAFF ON THE STATUS OF THE ENTERPRISE ADDRESS SYSTEM (EAS) PROJECT.</u>

Shaw: Directed the Committee to the report included with the meeting materials, and , after going through the report, turned the floor over to Kevin Bruhn

Bruhn: Provided a visual demonstration for the Committee on the Enterprise Address System (EAS) and the anticipated interaction between the local communities providing address information through the website to EAS.

Bauer: Stated for the minutes that the report was accepted and placed on file, with thanks to County Staff for the visual demonstration.

IV(D) <u>REPORT BY MCAMLIS STAFF ON THE STATUS OF THE PICTOMETRY OBLIQUE IMAGERY PROJECT.</u>

Shaw: Directed the Committee to the report included with the meeting materials

Bauer: Stated for the minutes that the report was accepted and placed on file.

IV(E) <u>REPORT BY MCAMLIS STAFF ON THE STATUS OF 2008 LiDAR PILOT PROJECT.</u>

Shaw: Directed the Committee to the report included with the meeting materials

Bauer: Stated for the minutes that the report was accepted and placed on file.

IV(F) <u>REPORT BY MCAMLIS STAFF ON THE STATUS OF ACTIONS TAKEN REGARDING MCAMLIS COPYRIGHT PROTECTIONS.</u>

Shaw: Directed the Committee to the items included with the meeting materials, stating that they have been successful in obtaining AT&T's signature on the revised license agreement.

Place: Stated he had received the documents last Friday and would be obtaining We Energies' signature, and thereupon returning the documents to Bill Shaw.

Bauer: Stated for the minutes that the report was received and placed on file.

IV(G) REPORT BY SEWRPC STAFF ON THE STATUS OF THE REGIONAL WATER STUDY.

Bauer: Directed the Committee to the memorandum available at today's meeting, giving an update on the status.

Bauer: Stated for the minutes that the report was reveived and placed on file.

IV(H) REPORT BY SEWRPC STAFF ON THE STATUS OF MCAMLIS FLOODLAND MAPPING PROJECT.

Bauer: Directed the Committee to the memorandum available at today's meeting, giving an update on the status.

Bauer: Stated for the minutes that the report was received and placed on file.

IV(I) REPORT BY MILWAUKEE COUNTY DAS STAFF ON MCAMLIS FISCAL STATUS.

Kotze: Directed the Committee to the reports distributed at the meeting.

Bauer: Stated for the minutes that the report was received with appreciation and placed on file.

V. OLD BUSINESS

V(A) CONSIDERATION OF A MCAMLIS STAFF REQUEST TO PROVIDE INTERNET ACCESS TO THE MILWAUKEE COUNTY PLATS OF SURVEY

Shaw: Directed the Committee to the memorandum included with the meeting material, along with the fiscal note distributed today. Lengthy discussion followed.

Motion: Bennett moved to approve the requested $136,000 with the caveat that staff will provide ongoing monitoring of expenditures

Second: La Fave

Motion approved; Nehmer opposed

V(B) CONSIDERATION OF THE MCAMLIS STAFF REQUEST TO AUTHORIZE ADDITIONAL FUNDING NECESSARY TO COMPLETE THE EAS PROJECT.

Shaw: Directed the Committee to the memorandum included with the meeting material, along with the fiscal note distributed today.

Motion: Olson moved to approve the addition of $65,000

Second: Bennett

Motion carried unanimously

VI. NEW BUSINESS

VI(A) INTRODUCTION BY MCAMLIS STAFF TO A PROPOSED 2010 ORTHOPHOTO IMAGING AND PHOTOGRAMMETRIC PROGRAM

Shaw: Directed the Committee to the information provided with the meeting material. No action is necessary at this time.

Bauer: Stated for the minutes that the report was received and placed on file.

VI(B) CONSIDERATION OF A REGISTER OF DEEDS REQUEST TO FUND IMPROVEMENTS TO COMPUTERIZED SYSTEM

La Fave: Directed the Committee to the request provided with the meeting material

Motion: Olson moved to approve the additional $120,000

Second: Bennett

Motion carried unanimously

VII. CORRESPONDENCE

Shaw: Directed the Committee to an announcement regarding a GIS Open House that the Milwaukee County Land Information Office is promoting. Invited Committee members to attend. Will take place on April 22, 2009 in Room 590 of City Campus Building.

Bennett: Asked if Bill Shaw could give a presentation to the ICC. Bill Shaw agreed.

VIII. DATE, TIME AND PLACE OF NEXT MEETING

July 21, 2009 at 9:00 am at City Campus, Room 349

IX. ADJOURNMENT

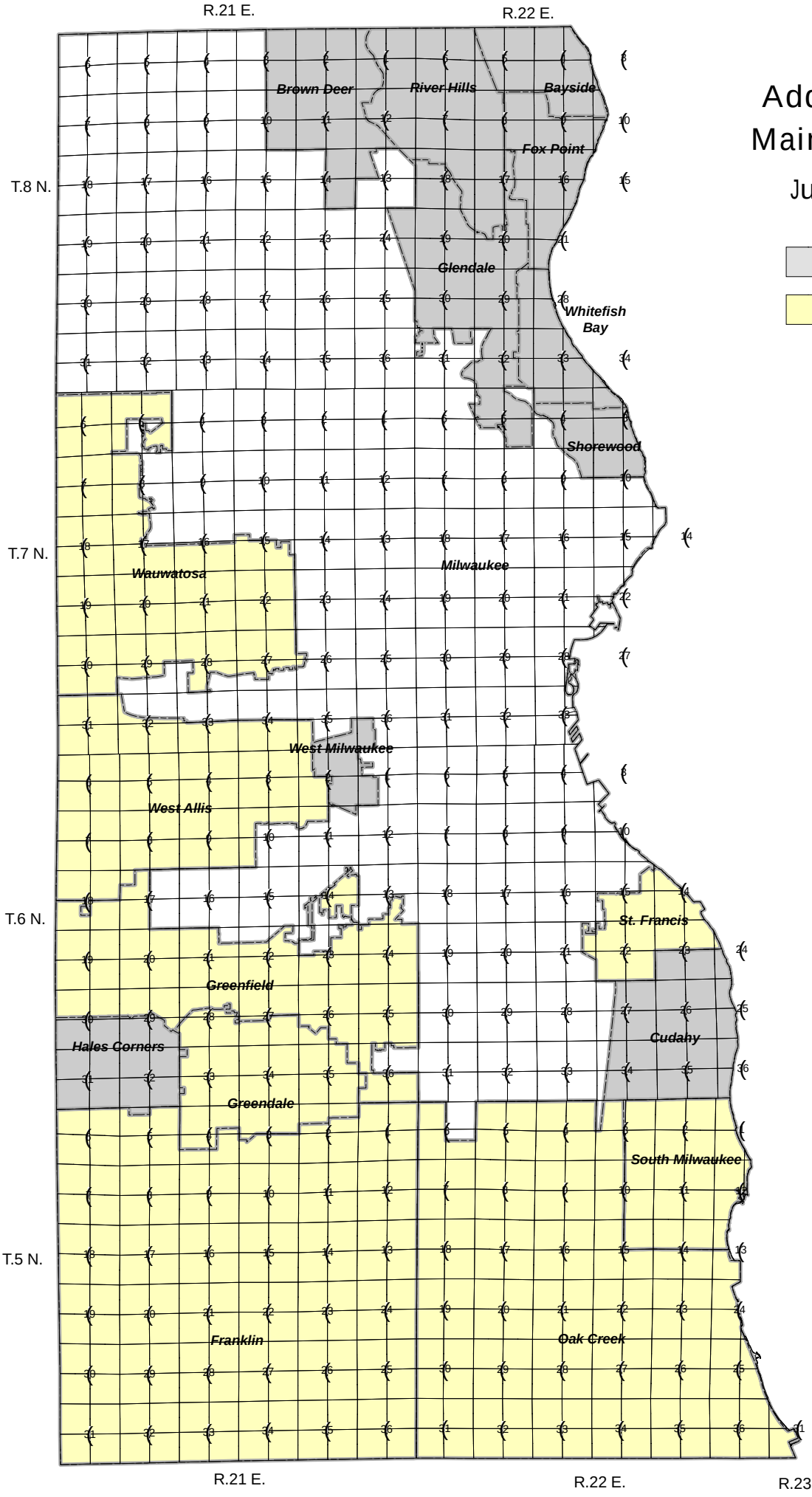
Motion: Bennett; seconded Nehmer; carried unnanamous.

Respectfully submitted,

William C. Shaw
MCAMLIS Project Manager

MCAMLIS
Address Database Maintenance Status

July 2009 Status



January 1, 2009

July 1, 2009

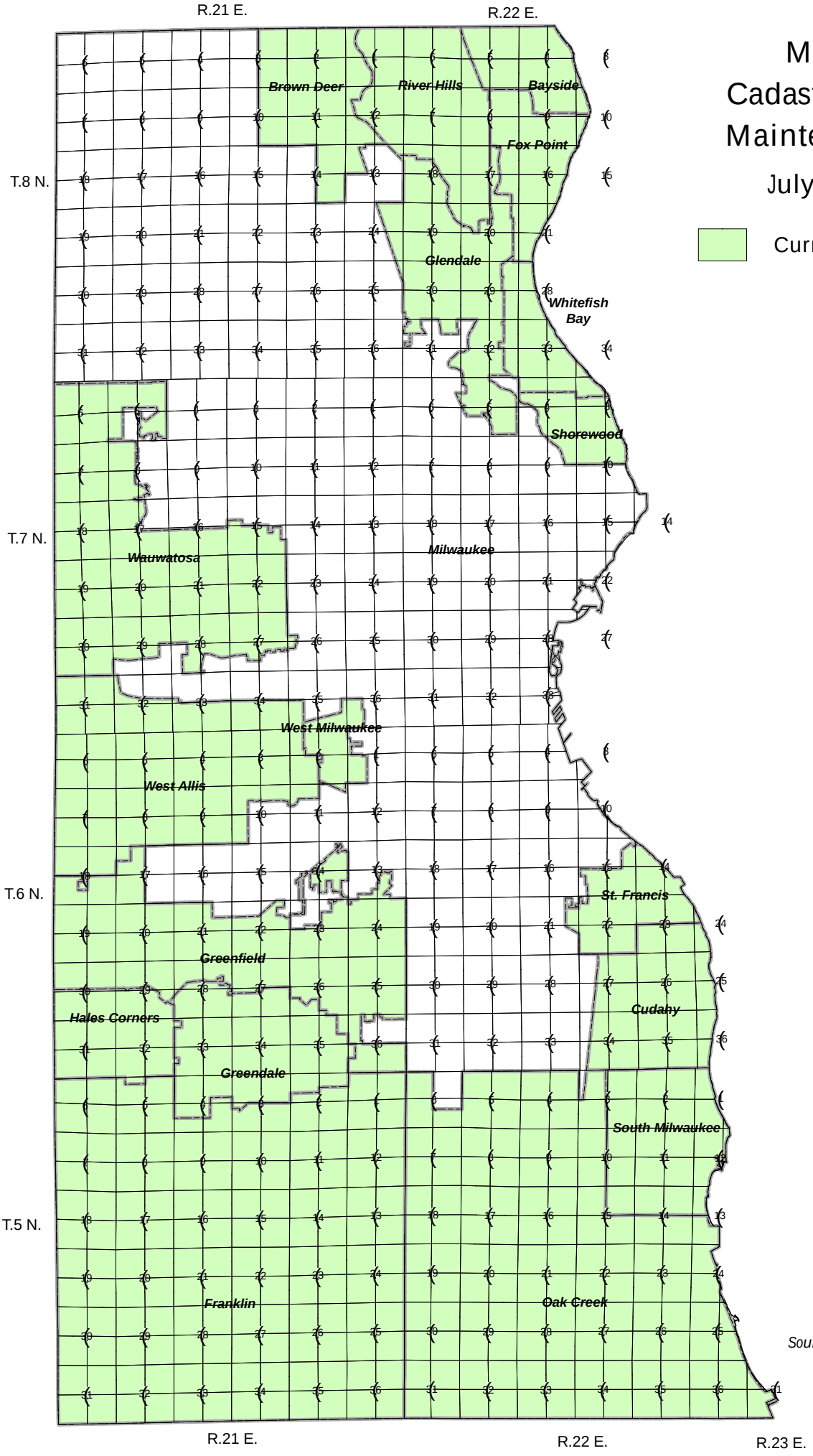
0 1 2 3
Miles

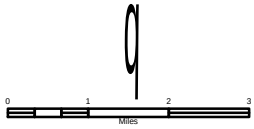
Source: MCAMLIS Project Manager

MCAMLIS
Cadastral Database Maintenance Status

July 2009 Status

Current as of June 1, 2009

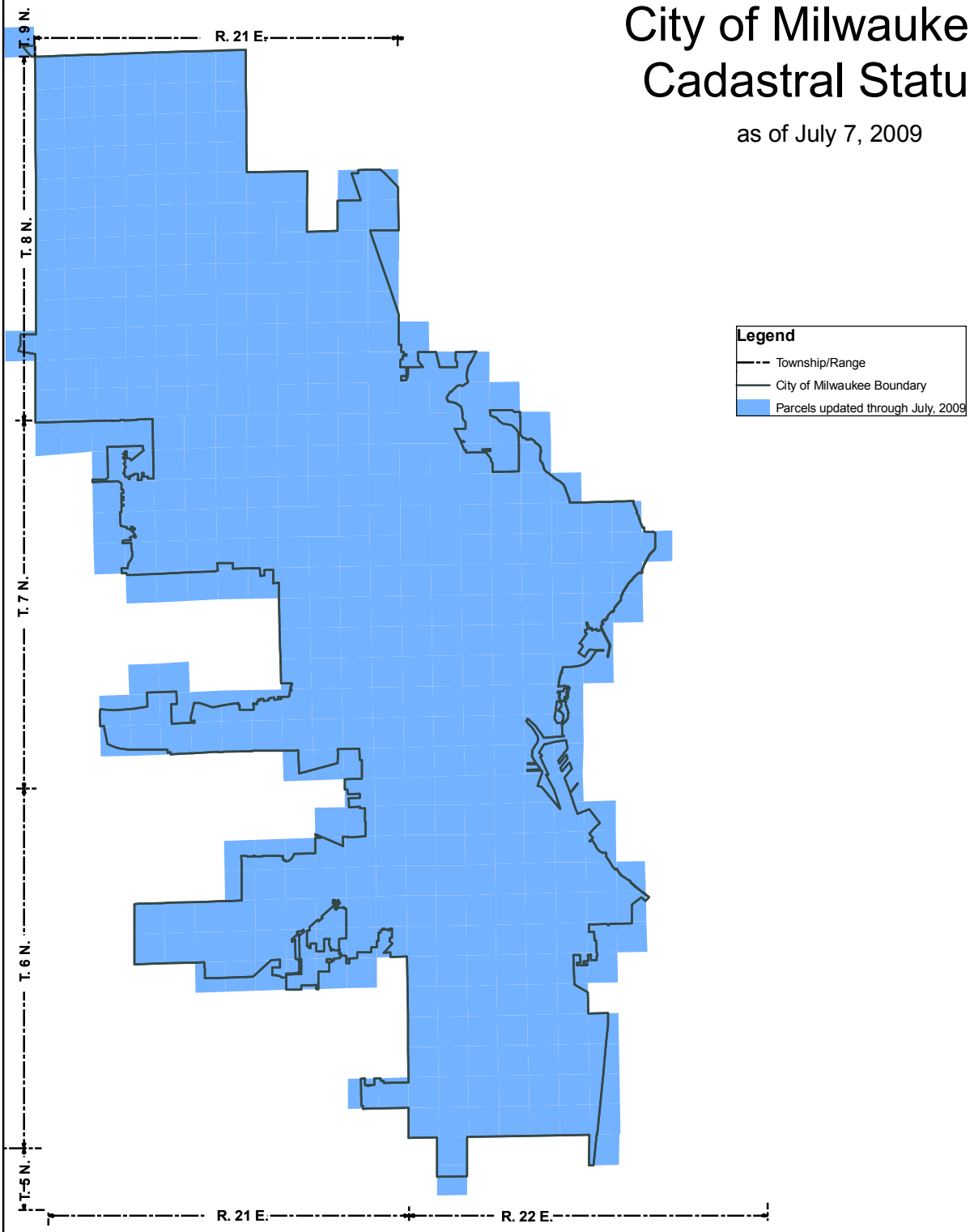




Source: MCAMLIS Project Manager

City of Milwaukee Cadastral Status

as of July 7, 2009



DEPARTMENT OF TRANSPORTATION & PUBLIC WORKS
MILWAUKEE COUNTY LAND INFORMATION OFFICE

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

MEMORANDUM

TO: MCAMLIS Steering Committee
FROM: William C. Shaw, MCAMLIS Project Manager
DATE: July 14, 2009

SUBJECT: Enterprise Address System Project Status

BACKGROUND

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

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

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

The EAS Project focus is on the establishment of data, technology and organizational components required to serve all Milwaukee County units of government as well as the many individual public service agencies that use address information in their day-to-day operations.

ACTIVITIES THIS PERIOD – 4/09 - 6/09

- Develop and prepare to deliver EAS street centerline and address point location data in support of the Village of Bayside Dispatch Center (Positron) CAD system implementation project
- Develop, build, test and deploy Version 2 of the MCLIO Interactive Mapping Service (attached MCLIO Interactive Map Service Dashboard)
- Deploy updated web-based MCAMLIS Cadastral products (data and maps), fully integrating the City of Milwaukee digital cadastral map data within the countywide MCAMLIS Cadastral map product
- Reconciled the EAS database to allow dynamic linking of parcels, addresses, units and structures (attached; centerline to structure and address to building status maps)
- Developed and deployed address maintenance procedures utilizing the MCLIO Share Point site for communicating data used in the North Shore Fire Department Street Address Atlas (attached EAS Maintenance Procedures)
- Conducted 1st MCLIO Openhouse (4/22) with over 60 attendees
- Invited by the ICC to update them on MCAMLIS progress (7/13)

NEXT

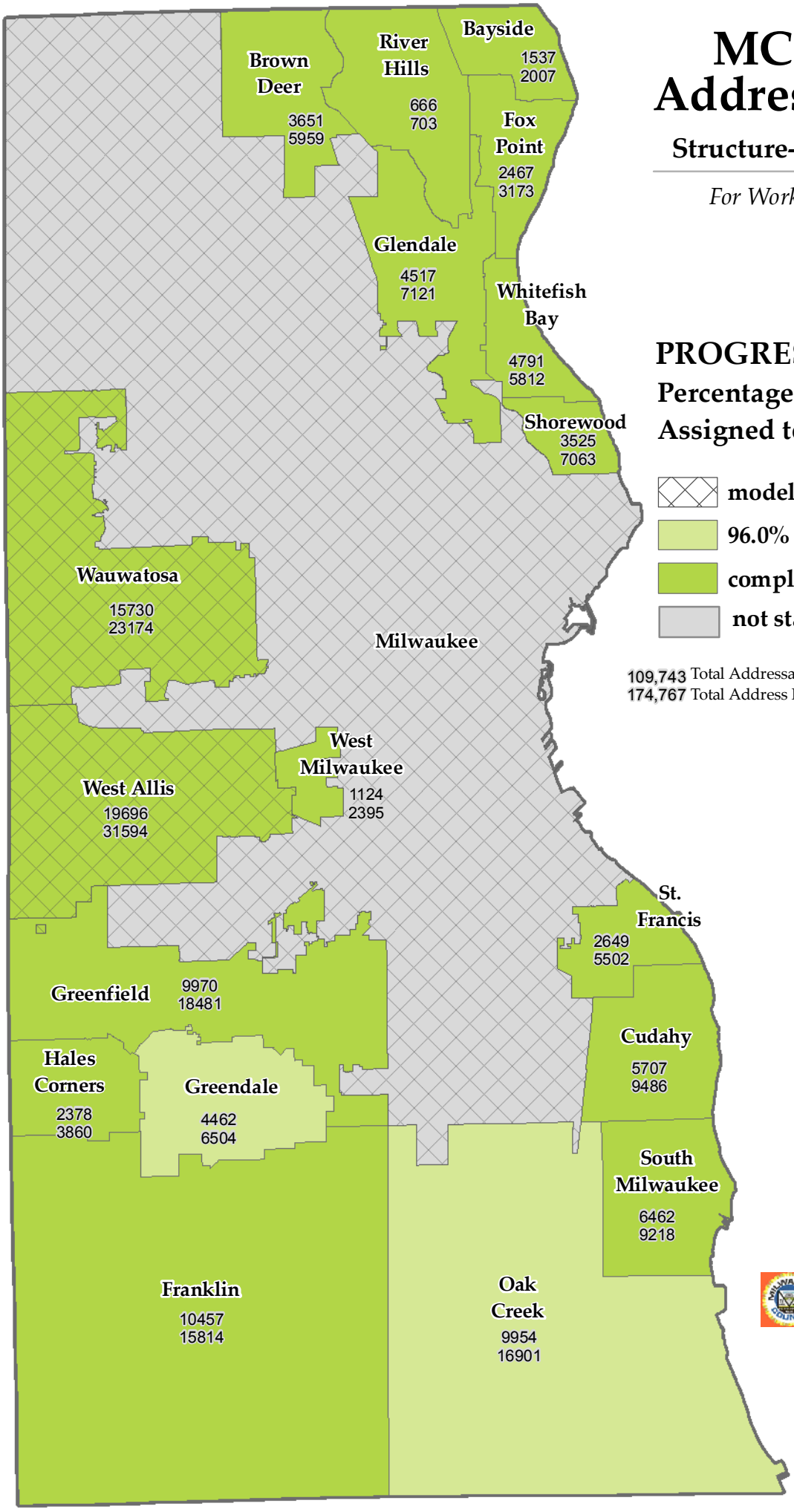
- Ongoing progress toward incorporating multiple address source information
- Continue address integration implementing the prototype EAS Address Model for the remaining communities

Attach: MCAMLIS EAS Address Model Status: Structure-to-Address Relationship
MCAMLIS EAS Address Model Status: Centerline-to-Address Relationship
EAS Address Maintenance Procedures
MCLIO Interactive Mapping Service Dashboard

MCAMLIS EAS Address Model Status

Structure-to-Address Relationship

For Work Performed through 6-30-09



PROGRESS

Percentage of Addresses Assigned to Structures

- model to be constructed
- 96.0% - 98.0% (field collection required)
- complete / ongoing maintenance
- not started: 60% complete (est.)

109,743 Total Addressable Building Polygons (excluding Milwaukee)
174,767 Total Address Records (excluding Milwaukee)

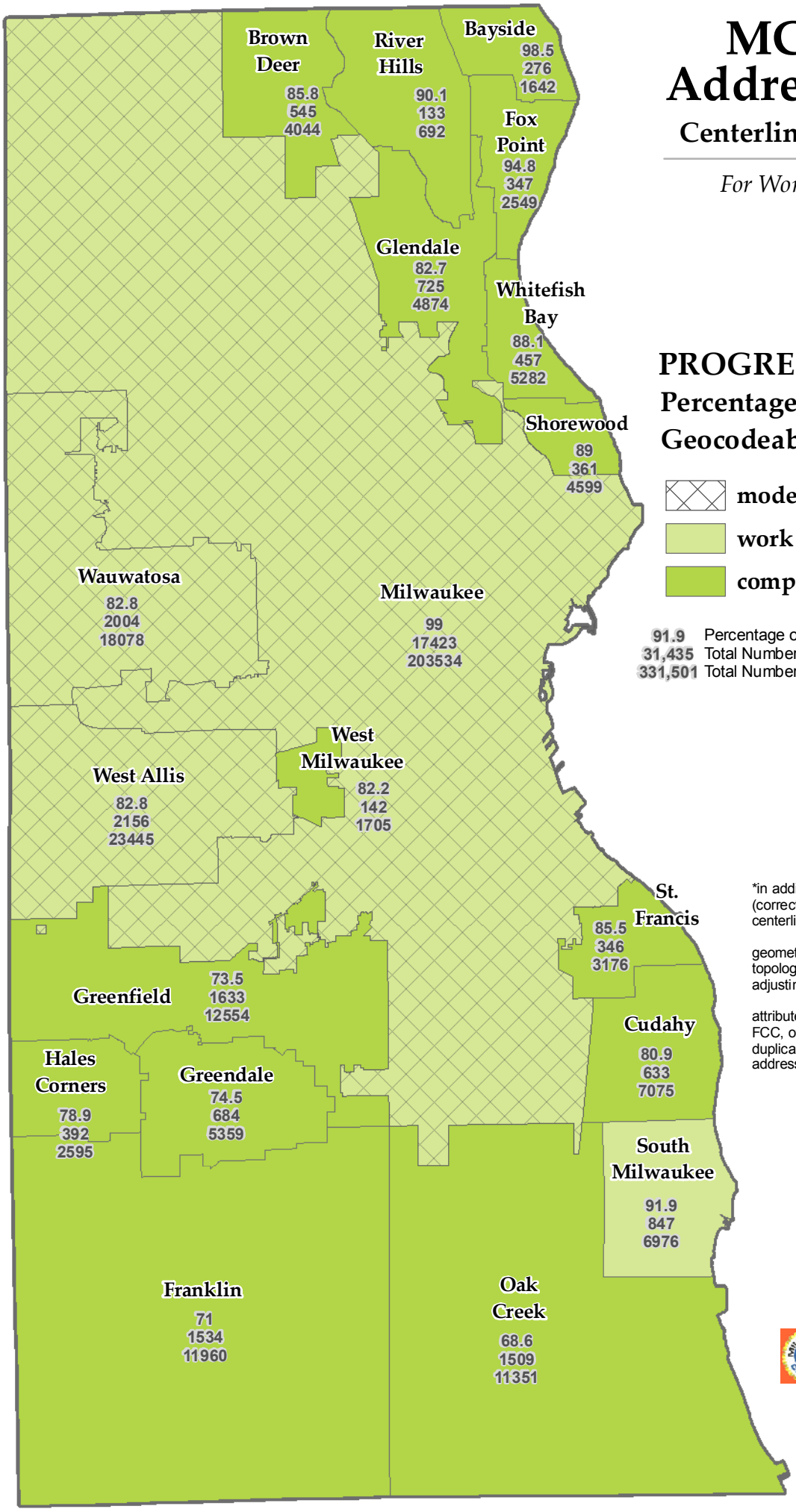
N

Milwaukee County Land Information Office

MCAMLIS EAS Address Model Status

Centerline-to-Address Relationship

For Work Performed through 6-30-09



PROGRESS

Percentage of Addresses Geocodeable to Centerline Segments

- model to be constructed
- work remaining* (<=99%)
- complete / ongoing maintenance (>99%)

91.9 Percentage of Geocodeable Addresses Prior to Error Correction
31,435 Total Number of Centerlines
331,501 Total Number of Unique Addresses (excluding units)

*in addition to work required to improve geocoding rates (correcting range gaps, range overlaps, null ranges, etc.), centerline error correction also includes the following:

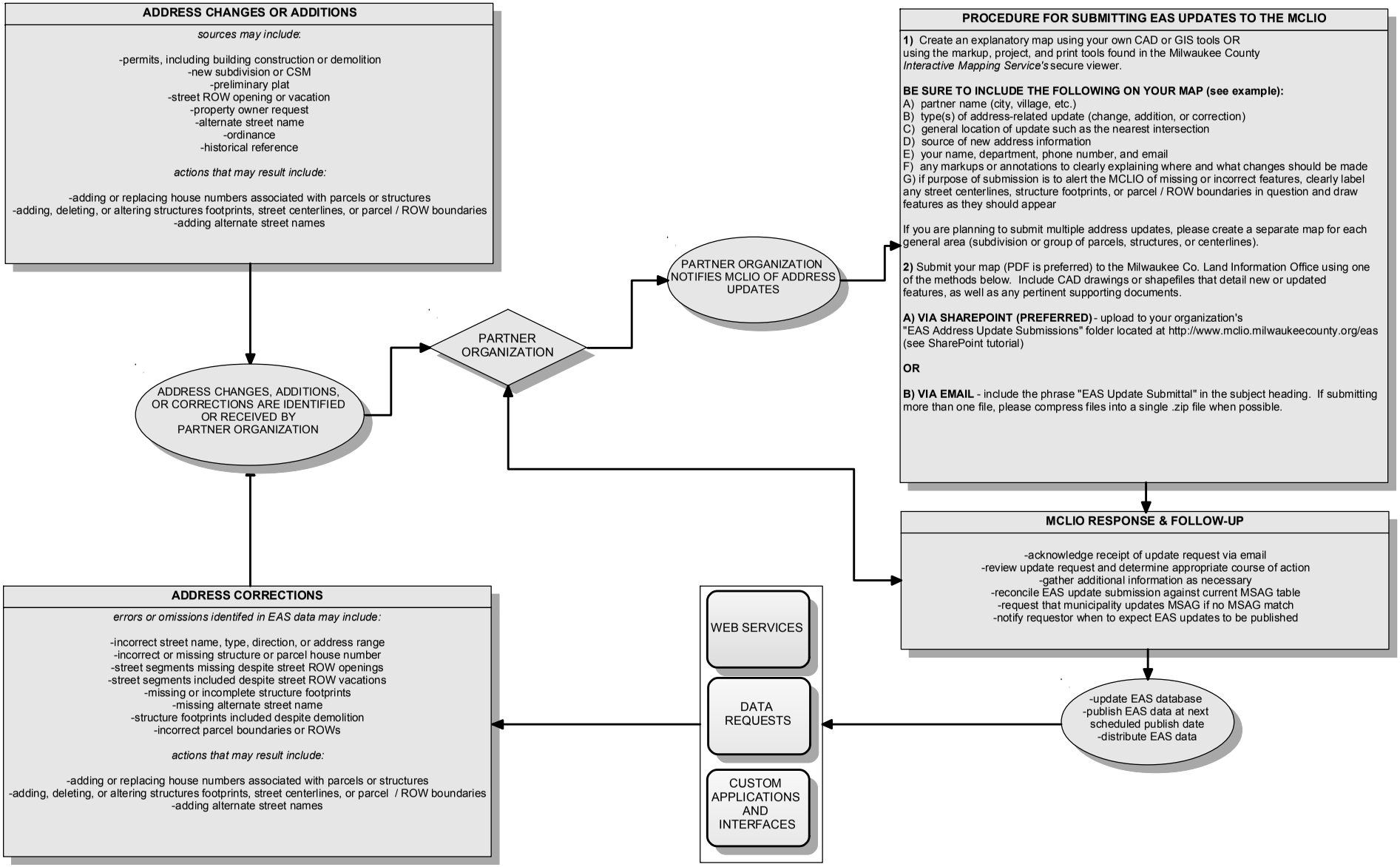
geometry correction:
topology / node analysis, intermodal & municipal boundary splits, adjusting centerline & intersection location, digitized direction, etc.

attribute correction:
FCC, owner, routability, L&R municipality, name/type/dir, duplicate/null centerline IDs, alternate names, address & building table corrections, highway table updates, etc.

N

Milwaukee County Land Information Office

OVERVIEW OF THE MILWAUKEE COUNTY LAND INFORMATION OFFICE'S *ENTERPRISE ADDRESS SYSTEM* UPDATE SUBMISSION PROCESS



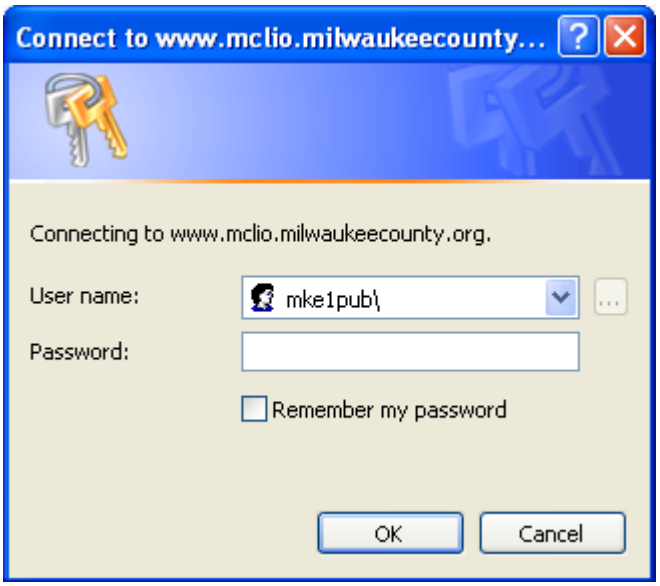
EAS *SharePoint* Site

1) Log on to the "EAS Address Maintenance" section of the Milwaukee Co. Land Information Office's *SharePoint* site

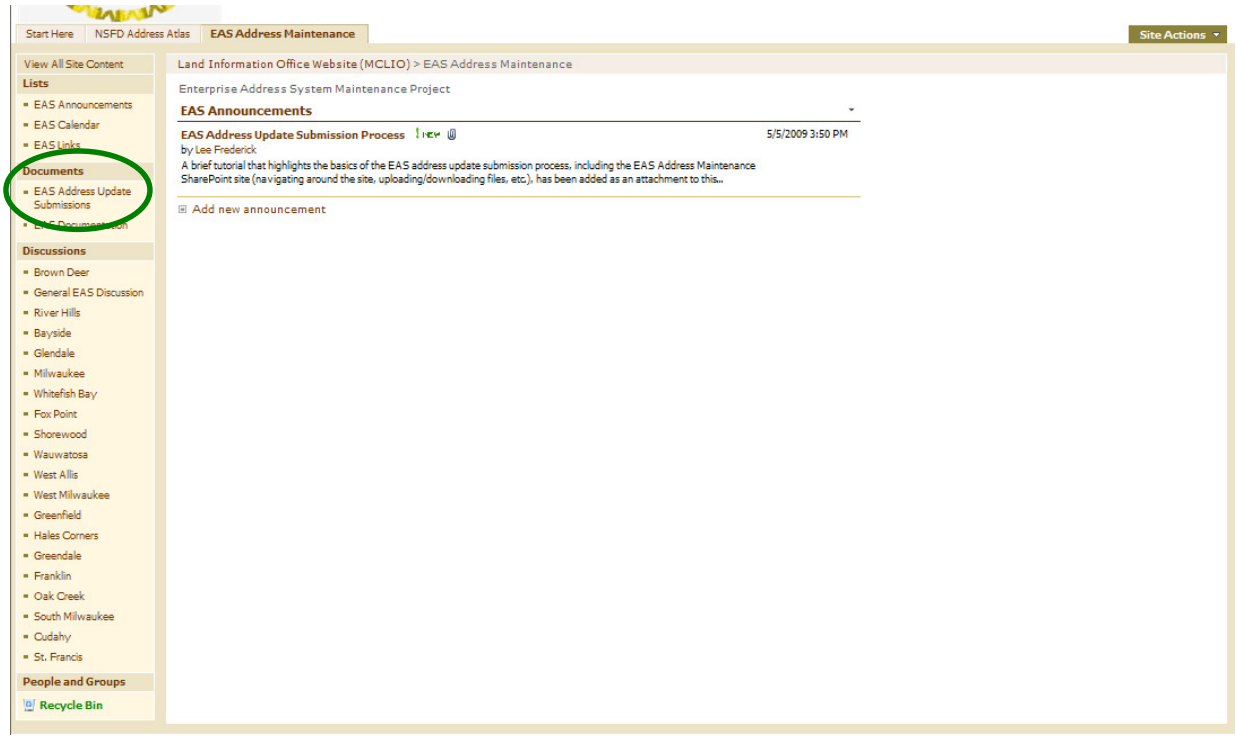
http://www.mclio.milwaukeecounty.org/eas

User name:
mke1pub\firstnamelastname

Password:
lastnamefirstname

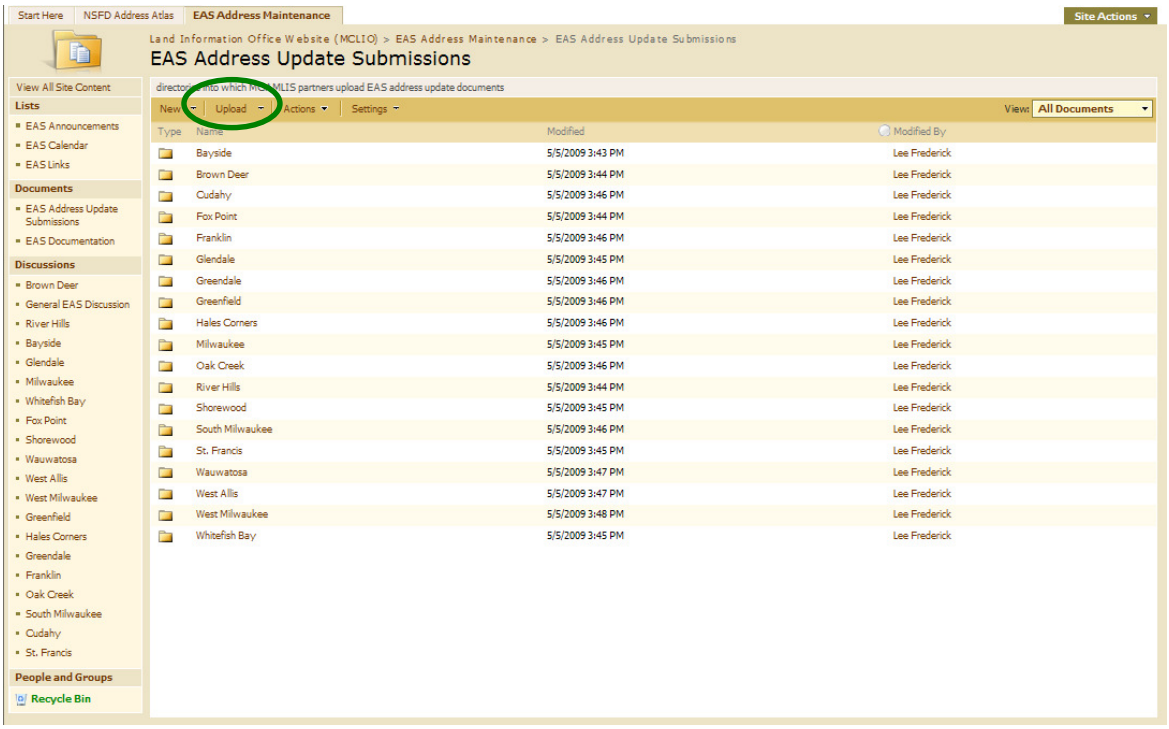


2) Click on "EAS Address Update Submissions"

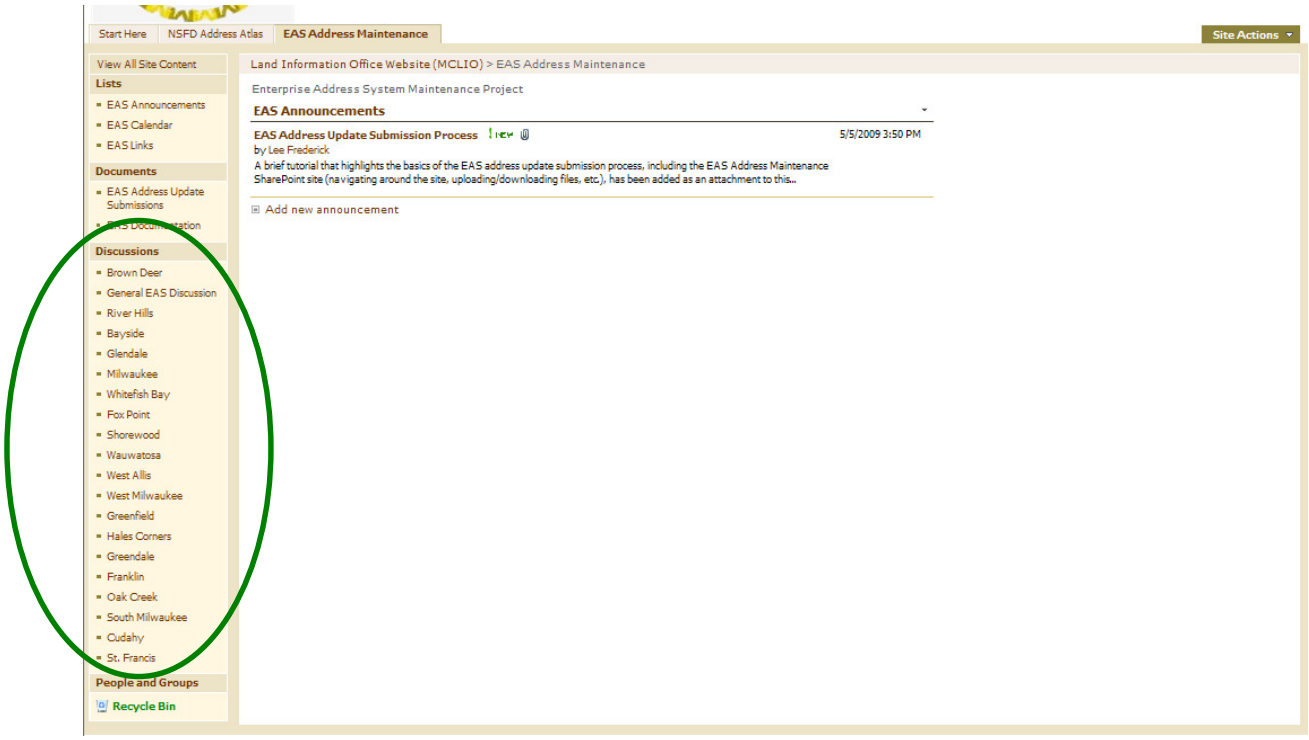


3) <u>Click on your organization's directory</u>

- to upload address update submissions (maps, data, and supporting documents) to your directory, click "Upload"
- if submitting multiple items, compress items into a single .zip file when possible

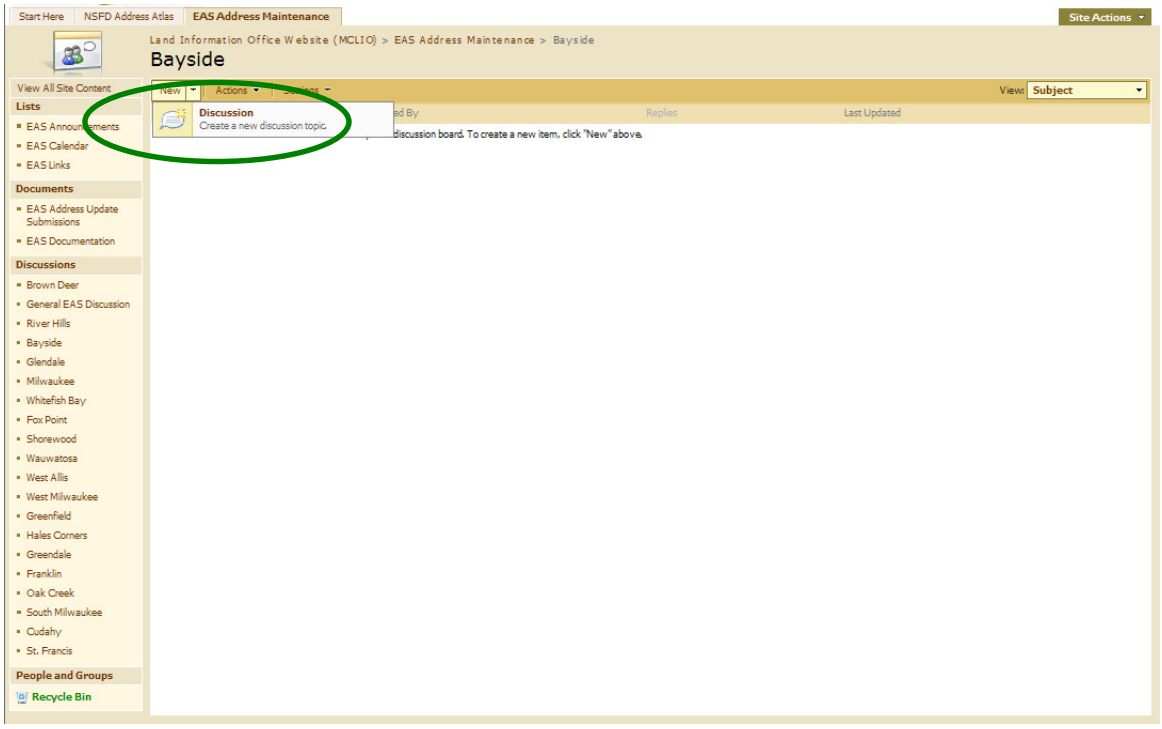


4) <u>After submitting address update documents, click on your organization's discussion board</u>



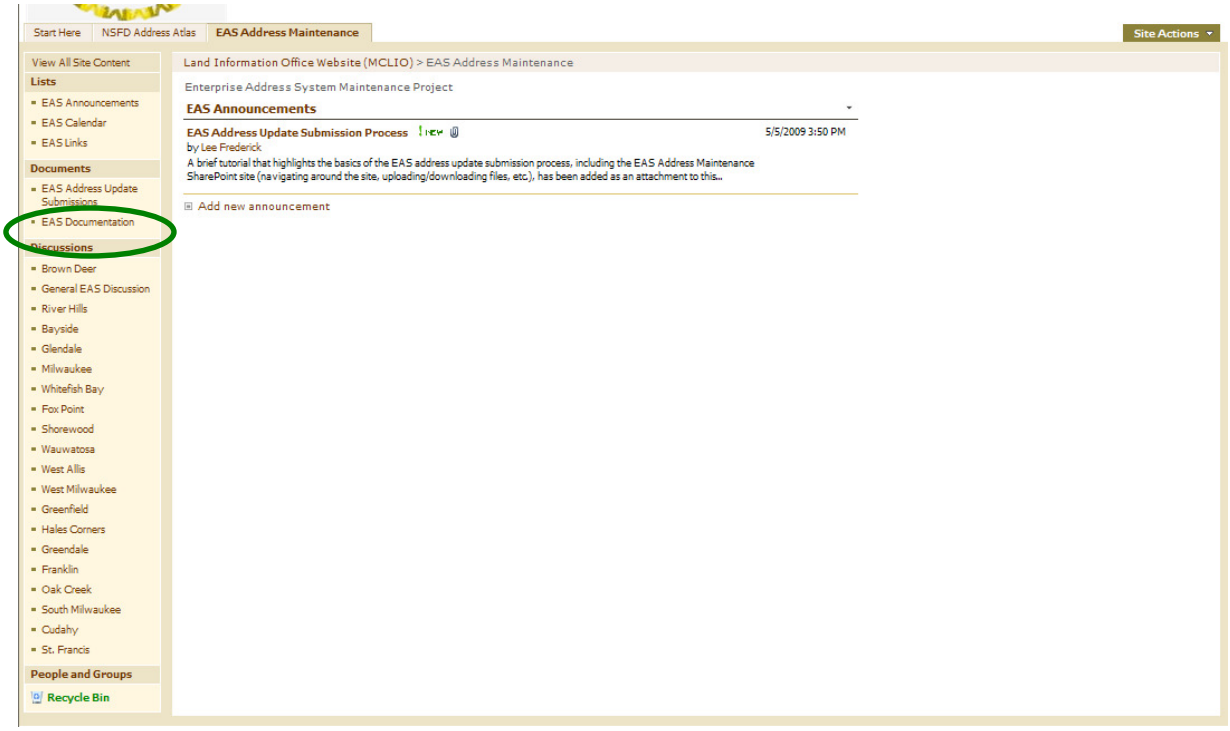
5) <u>Post a message to notify the MCLIO of your address update submission</u>

- click “new,” then “Discussion” to insert a brief message about your submission
- after receiving notification of your submission, the MCLIO will contact you regarding the status of your submission

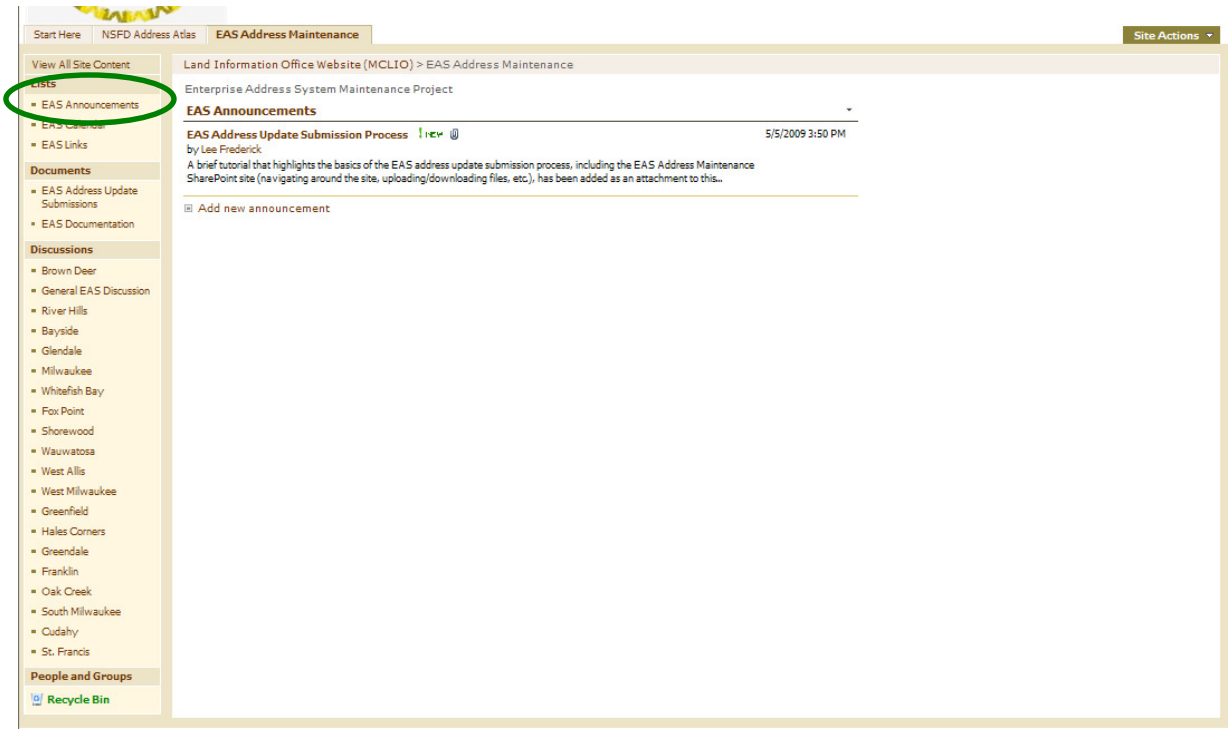


6) <u>To view & download documentation or instructions related to this project, click on “EAS Documentation”</u>

to download files from this directory, click on the file of interest, then save file locally after it appears in a new browser window

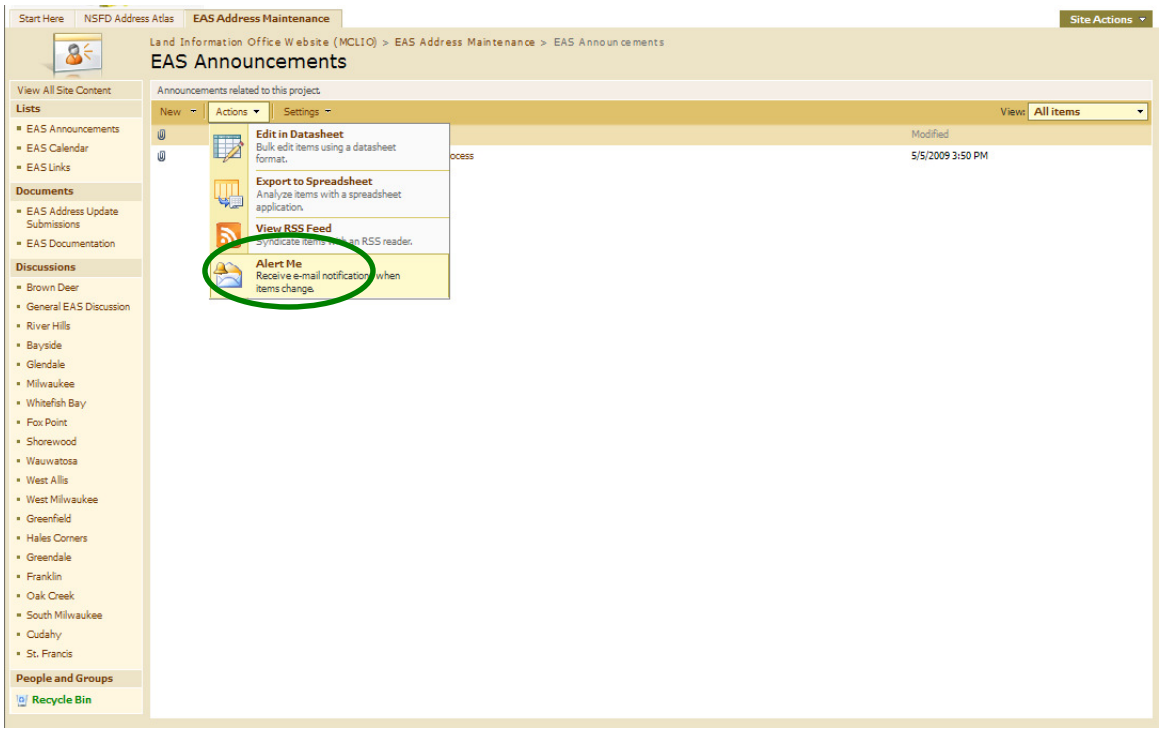


7) <u>To view announcements related to this project, click on "EAS Announcements</u>"



***<u>OPTIONAL</u>*: <u>Click on "Actions" and select "Alert Me" to set up automatic email notification</u>**

alerts must be activated for each area (Discussions, Announcements, Documentation, etc.)



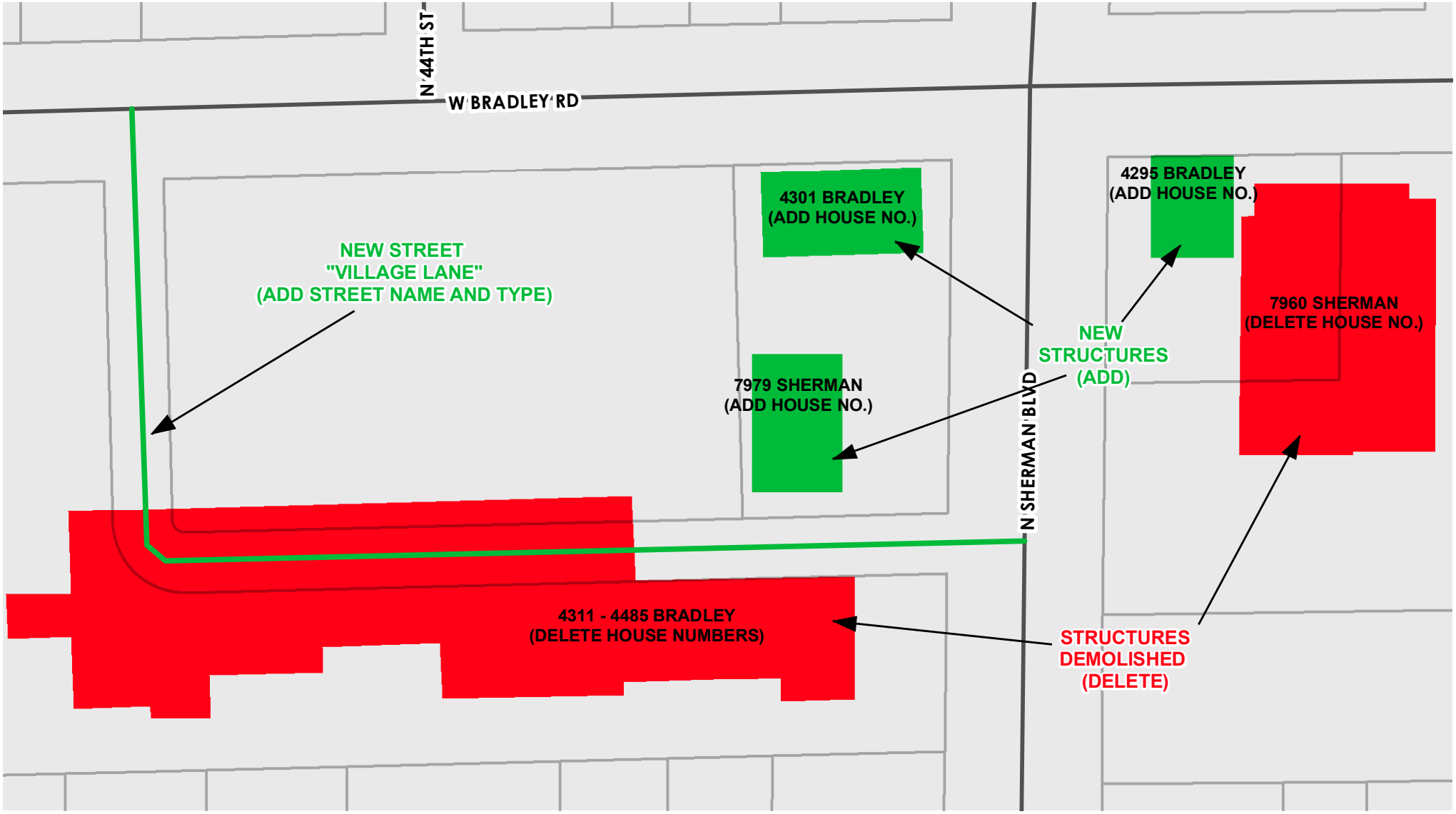
Your Village, City, or Organization

EAS UPDATE SUBMITTAL

STREET NAME ADDITION
ADDRESS ADDITIONS & CORRECTIONS
STRUCTURE ADDITIONS & CORRECTIONS

EXAMPLE

INTERSECTION OF W BRADLEY RD & N SHERMAN BLVD, VILLAGE OF XXXXXX



SOURCE:
XXXXXXX
XXXXXXX

N

0 100 200 400 Feet

SUBMITTED BY:
Your Name
Your Department
Your Phone Number
Your Email

EAS DATA SOURCE EXAMPLE

GENERAL NOTES

1. These Drawings and documents are submitted to Steiner and Associates for review and approval prior to any release for bidding or construction. Contractors shall receive all bid information, instructions, bid forms, general terms and conditions, and all other clarification from the Owner's Authorized Representative administering this project (Owner's Representative). Unless otherwise indicated the "Owner's Representative" for this project shall be Mike Kirk of Stiener and Associates. The contractor will also be required to coordinate and correspond with the landscape architects/engineers at Graef Anhalt Schloemer and Associates Inc. and key consultants for the Owner.
2. These drawings supplement the other contractual information contained in the "Project Manual" and/or Bid Instructions (Specifications). Anything mentioned in the Project Specifications and not the drawings, or vice-versa, shall be of like effect as if shown on or mentioned in both. In case of discrepancy in drawings or project specification, the matter shall be immediately submitted to the Owner's Representative; without his decision said discrepancy shall not be adjusted by the contractor, save only at his own risk and expense. The contractor shall not take advantage of any error or omission on the drawings or in the specifications. In the event the contractor discovers such error or omission, he shall immediately notify the Owner's Representative. The Owner's Representative will then make such clarification and interpretations as may be deemed necessary for the contractor to fulfill the intent of the contract.
3. The "intent" of these Improvements Drawings, details, and associated specifications is that the contractor provide the Owner with a complete, accurate, functionally, and technically sound project as generally described in the documents. The drawings are diagrammatic. In most cases, unless explicitly noted otherwise, drawing symbols are used to represent complete-in-place systems to be provided, as part of the base bid. All elements shown or implied by the drawings, if not specifically detailed or specified, shall be installed per Uniform Building Codes, practices, as approved by the Owner's Representative.
4. All work of this project shall conform to the current City of Glendale Codes, Ordinances, Standards, and Specifications for construction of Public Improvements, as well as all other applicable governing regulations in effect.
5. All range points, ties, benchmarks or other survey control points which may be encountered during construction, must be preserved or modified/recorded by a registered surveyor at the contractor's expense. Immediately upon discovery, the contractor shall notify the Owner's Representative of any survey control points found and obtain direction prior to proceeding with construction.
6. The contractor shall coordinate and obtain all permits which are necessary to perform the proposed work. Owner to pay for all construction permits unless otherwise indicated in the Contract Documents. Contractor shall obtain, at his expense, all specialty permits required for specific items included with the work, unless otherwise indicated in the Contract Documents.Contractor shall comply with all notification and inspection requirements.
7. Unless specifically noted in the contract documents, the contractor shall obtain and coordinate all technical test and reports by a certified independent laboratory, or agency as outlined in the specifications or these drawings. The Owner may, at the Owner's sole discretion, provide separate testing and/or inspection service and his contractor is required to fully coordinate with these consultants/contractors. Owner to pay for all soils and materials testing.
8. An existing condition survey has been provided to the Owner by registered surveyors under separate contract for the basis of design. It is not to be considered as part of these contract documents. These survey plans may have been reformatted and included in this set for general information only and intended to assist the contractor in general orientation of the site. The contractor is required to visit the site, verify information, conduct any exploratory research, and become thoroughly familiar with all existing conditions as pre-requisite of his bid submittal. Without exception, any deviations or commissions found between these plans and existing site conditions shall immediately be brought to the attention of the Owner's Representative, but will not be considered as basis for additional payment except as allowed in change order process per General Conditions and Supplementary Conditions under the existing Owner-Contractor Agreements/Contracts. For "official" survey information, contractor may wish to contact the surveyor as a separate agreement. See also "Project Specifications" for additional information.
9. Existing (or proposed by others) utility information shown is approximate only and for general information only. It is not intended to depict exact locations or all utilities. The contractor shall notify all utility companies to stake and field verify locations, including depths, of all utilities existing, proposed by others or currently under construction, prior to commencing any related operations. Contractor shall maintain utility locations/structures during all remaining phases of work. The contractor shall report to the Owner's Representative any utilities which may conflict with proposed work. The contractor shall explore, understand, and coordinate (with subcontractors and others) all utilities impacts prior to submitting bid and shall be responsible for any modifications or damages to utility lines, structures, or injuries therefrom.
10. These drawings do not specify safety materials, staffing, equipment, methods or sequencing to protect persons and property. It shall be the contractors sole responsibility to direct and implement safety operations and staffing procedures to protect to protect the Owner and his representatives, new improvements, property, other contractors, the public and others.
11. The contractor shall meet periodically with the Owner's Representative to determine marshalling areas, on-site storage, contractor staff parking, security issues, construction sequencing/phasing, scheduling and maintaining public, emergency, handicap or operations access, before starting related work. The contractor shall meet any "Construction Criteria" or requirements shown on any Contract Documents, "Phasing Plans", or imposed by the Owner's Representative as a part of Base Bid.
12. Some of the work in this contract may occur concurrent with work by others. Phasing, sequencing and coordination with work by others and on-going facility operations in and around the site area is a part of this contractor's responsibility. See other drawings, specifications, and discuss with the Owner's Representative for additional information.
13. The contractor will be required to complete all of the work of this project according to these proposed drawings or subsequent clarification. A strict period of performance, including dates of substantial completion (for all and/or portions) and liquidation damages may be an integral element of this contract- see drawings and specifications.
14. Any site improvements requiring removal under this contract shall be properly and legally disposed off-site or at the Owner's option, surrendered/stockpiled in an approved on-site location per the direction of the Owner's Representative. All fees associated with off-site disposal will be the responsibility of the contractor.
15. The contractor is required to maintain a complete and "up-to-date" set of all contract documents, including clarifications, change orders, etc., in good condition at the construction site at all times. This set of documents will be made immediately available for review by the Owner's Representative and/or authorized consultants upon request. Complete "As-Built" drawings and document submittals are also a requirement of this contract - see also specifications.
16. Maintenance, warranties and performance guarantees may be a requirement of this contract --see specifications Notes and details on specific drawings shall take precedence over general notes and typical details. The contractor shall refer to all other Division Notes, Sheet Notes, Drawings and Project Contract Documents for additional information.
17. All work of this section shall be required to be staked by a registered surveyor (PLS). All layout information is based on "Ground Coordinates" and the contractor shall meet with the Owner's Representative and/or surveyors to clarify datum, benchmark and control points requirements.
18. Contractor shall refer to "other related drawings" for all other related improvements that will impact this project and require coordination.
19. The contractor shall provide for control of surface erosion and sediment deposition during all phases of construction and until the Owner accepts the work as complete. The contractor shall provide all means to prevent sediment from reaching the Public "Right-of-Way", Streams and adjacent Property. In the event the preventative measures are not effective the contractor shall be responsible for all costs included in the removal of sediment and/or debris.
20. No Trees and/or shrubs are to be removed without the approval of the Owner's Representative.

STEINER

BAYSHORE MALL REDEVELOPMENT

GLENDALE, WISCONSIN

DEVELOPER
STEINER + ASSOCIATES
4016 TOWNSFAIR WAY
SUITE 201
COLUMBUS, OH 43219
TEL 614.414.7300
FAX 614.414.7311
www.steiner.com

OWNER
BAYSHORE TOWN CENTER, LLC
4016 TOWNSFAIR WAY
SUITE 201
COLUMBUS, OH 43219
TEL 614.414.7300
FAX 614.414.7311

CONSTRUCTION MANAGER
HUNZINGER CONSTRUCTION CO.
21100 ENTERPRISE AVENUE
BROOKFIELD, WI 53045
TEL 262.797.0797
FAX 262.797.0474
www.hunzinger.com

ARCHITECT OF RECORD
EPPSTEIN UHEN ARCHITECTS
333 EAST CHICAGO STREET
MILWAUKEE, WI 53202
TEL 414.271.5350
FAX 414.271.7794
www.eppsteinuhen.com

ISSUANCE AND REVISIONS

DATE	DESCRIPTION
03-27-06	TS BID PACKAGE #27
11-10-06	CONSTRUCTION SET

GRAEF ANHALT SCHLOEMER and Associates Inc.

Use of these documents is at your sole risk and without liability or legal exposure to Eppstein Uhen Architects Inc. By using these documents, you agree to make no claim and hereby waive, to the fullest extent permitted by law, any and all claims, or cause of action of any nature against us, our officers, employees, agents, consultants, sub consultants, or vendors that may arise out of or in connection with your use of these drawings.

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Released by:
Eppstein Uhen Architects Inc.

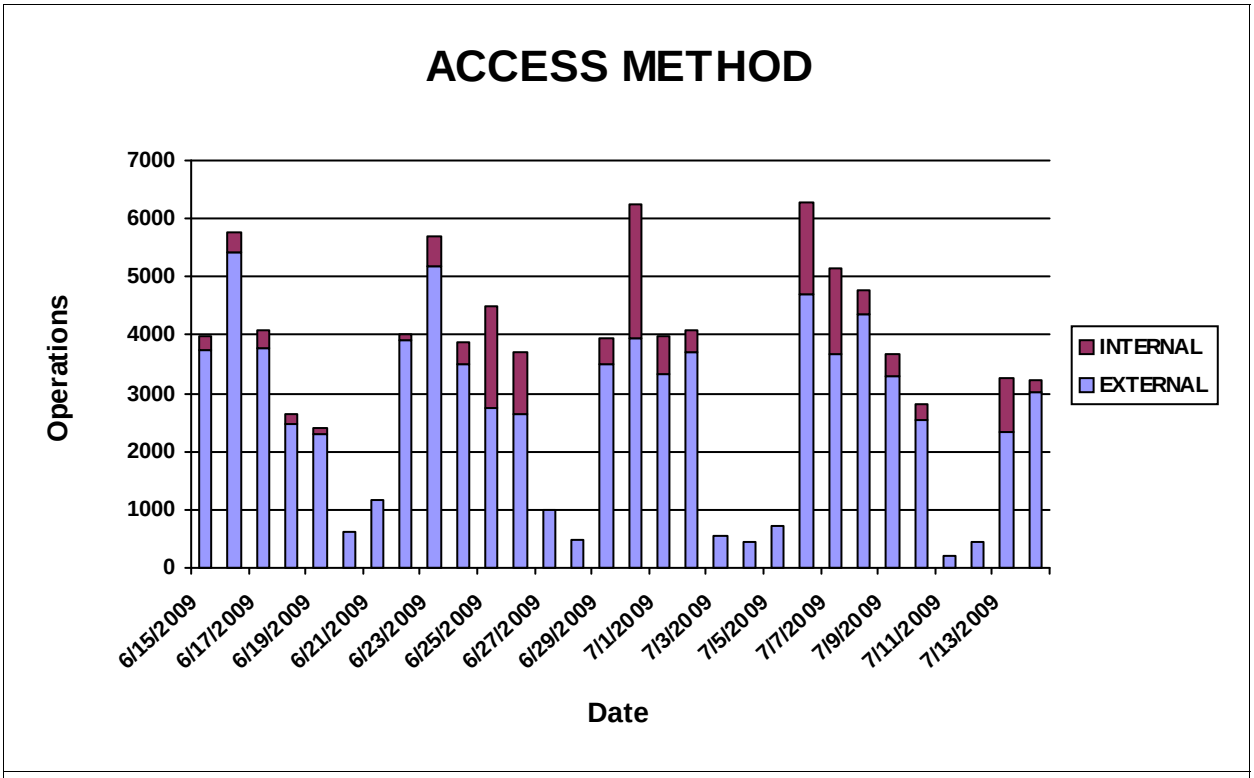
PROJECT NO: 3-05125-01
DATE: MARCH 27, 2006
SHEET:

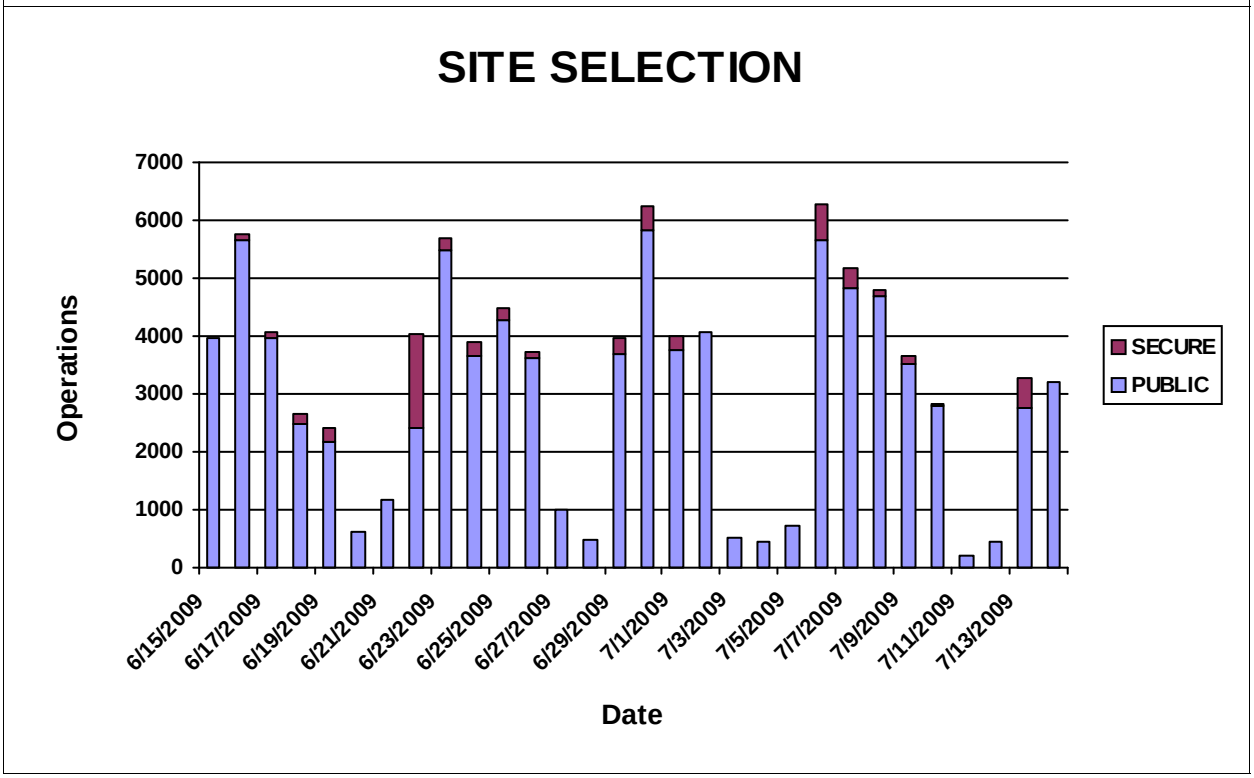
OVERALL SITE PLAN

S-100

TOWN SQUARE LAYOUT AND GRADING BID PACKAGE #27

MCLIO Map Services Dashboard





North Shore Fire Department

ADMINISTRATION
4401 WEST RIVER LANE
BROWN DEER, WISCONSIN 53223-2427
WWW.NSFIRE.ORG

July 17, 2009

Mr. William Shaw
MCAMLIS Project Manager
Milwaukee County Land Information Office
Milwaukee County Department of Transportation and Public Works
City Campus - Room 426
2711 W Wells St.
Milwaukee, WI. 53208

Dear Mr. Shaw:

I would personally like to take this opportunity to thank you and your staff at the Milwaukee County Land Information Office for your great efforts to assist the North Shore Fire Department in constructing, from the ground up, a new mapping guide book to be used by our firefighters. The new map books will be issued to all response vehicles and will be used to aid the crews in their responses to both non-emergency and emergency calls. The books you have helped to create are a one of a kind tool in this area. If not for your knowledge of the MCAMLIS system and the use of provided street and hydrant information, which you and your staff have worked with for a good part of the last year and one-half, this joint project could not have been possible. Now our crews will be able to quickly locate vital information to assist them while responding to numerous call types. Our new map books will help locate such landmarks as streets, building addresses, hidden residential homes, parks, waterways, highway on and off ramps and hydrant locations for fire operations.

The North Shore Fire Department is grateful for your cooperative efforts to design a well constructed map book that will serve our Department and residents alike. Please accept this letter as a show of gratitude for your time and cooperation and please share it with your talented staff. Thank you.

Respectfully submitted,

David J. Berousek
Fire Chief

DEPARTMENT OF TRANSPORTATION & PUBLIC WORKS

MILWAUKEE COUNTY LAND INFORMATION OFFICE

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

TO: MCAMLIS Steering Committee

FROM: William C. Shaw, MCAMLIS Project Manager

DATE: July 14, 2009

SUBJECT: Pictometry Oblique Imagery Acquisition Project Status

BACKGROUND

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

At its regular meeting held December 18th, 2007 the MCAMLIS Steering Committee approved a staff recommendation to proceed with the acquisition of Pictometry International, Corporation's oblique image warehouse and software.

ACTIVITIES THIS PERIOD - 4/09-6/09

- Concluded investigation of options to relieve performance bottlenecks at remote site locations and adopted web access over file compression.
- Purchased 1 year license to Pictometry hosted website
- Incorporated oblique image access via Pictometry Image Navigator software into the SECURE MCLIO Web Mapping Service. Note: there will be a website demonstration following this report
- Provided EFS training, 1 session (4/22)
- Final report; project status is complete

NEXT

Integration with MCAMLIS Products

- Periodically refresh basemap, parcel, property information and street centerline files using MCAMLIS feature data

Deployment

- Evaluate and recommend 2010 oblique imagery need and pricing options
- Upgrade MCLIO Interactive Mapping Service to include image clip and print options along with future mark-up and navigation enhancements
- Continue to notify and promote the user community of product, training and deployment options via MCLIO Sharepoint Website, onsite demonstrations, general mailings and announcements

Ongoing Support

- Develop and offer training tailored to Milwaukee County
- Monitor and support connections with remote user sites through onsite visits and MCLIO forums

Attach: Pictometry Status Map_063009

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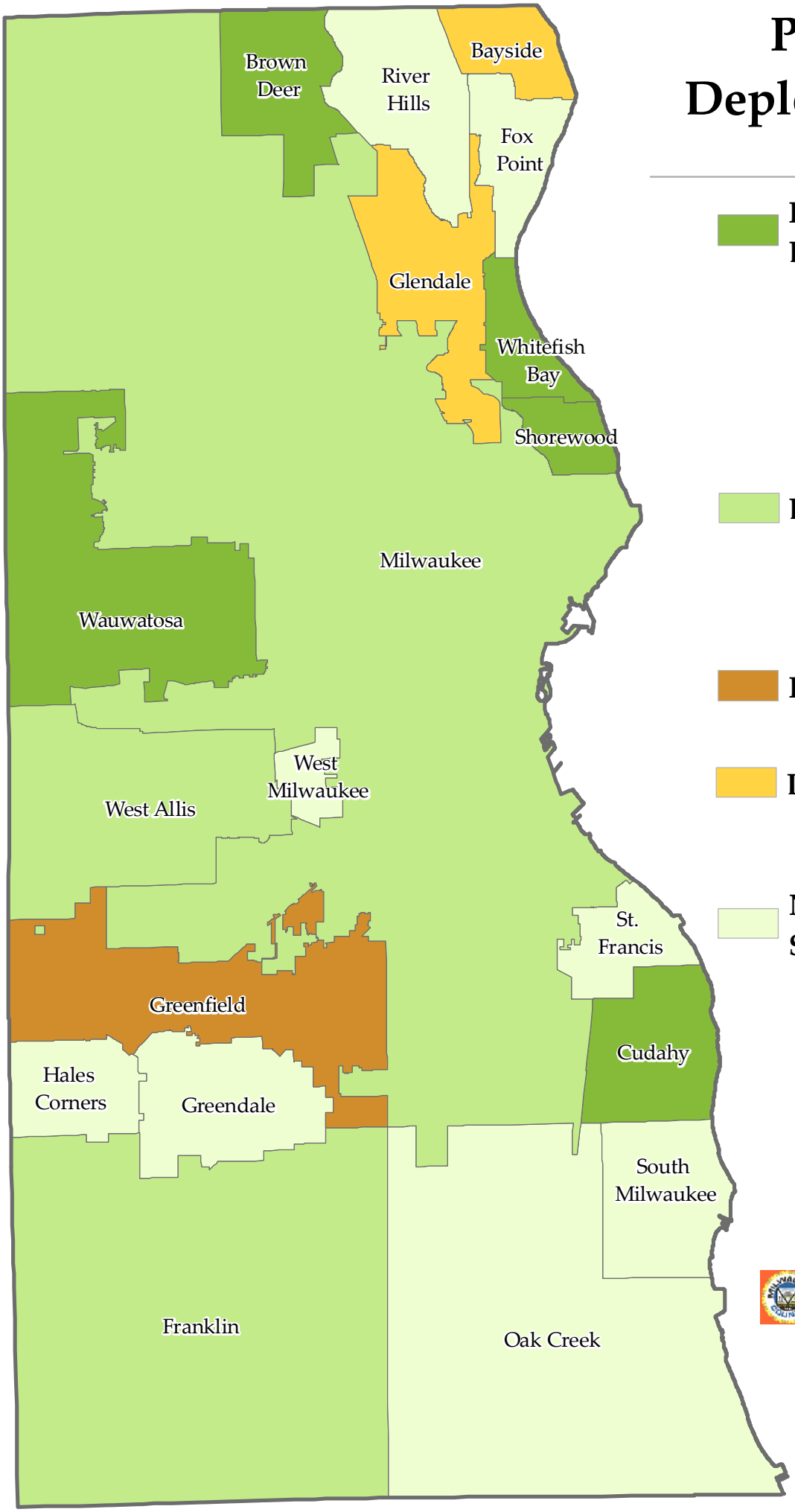
Pictometry Deployment Status

June 30, 2009



REMOTE DEPLOYMENT (59)

- City of Wauwatosa (22)
- City of Cudahy (18)
- MMSD (12)
- SEWRPC (3)
- Village of Brown Deer (2)
- Village of Shorewood (1)
- Village of Whitefish Bay (1)

LOCAL DEPLOYMENT

- Milwaukee County (22)
- City of Milwaukee
- City of West Allis
- City of Franklin

PICTOMETRY ONLINE (58)

- City of Greenfield (58)

DEPLOYMENT TBA

- City of Glendale
- Village of Bayside

NO DEPLOYMENT SCHEDULED

N

Milwaukee County Land Information Office

DEPARTMENT OF TRANSPORTATION & PUBLIC WORKS

MILWAUKEE COUNTY LAND INFORMATION OFFICE

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

MEMORANDUM

TO: MCAMLIS Steering Committee

FROM: William C. Shaw, MCAMLIS Project Manager

DATE: July 14, 2009

SUBJECT: Internet Access to the Milwaukee County Plats of Survey Project Status

BACKGROUND

The Southeastern Regional Planning Commission, under requirement of the Wisconsin State Statute, serves as Surveyor for Milwaukee County. As such, the Commission is responsible for receiving and filing copies of land survey plats prepared by land surveyors for real property parcels in Milwaukee County. The Commission has maintained the files concerned since 1984 and those filings are currently in hard copy format.

At its regular meeting held March 24th, 2009 the MCAMLIS Steering Committee approved a staff recommendation authorizing MCAMLIS and Commission Staff to jointly conduct efforts such that the existing hard copy files be converted to and maintained in digital format to facilitate user access through the Internet via the Milwaukee County Land Information Office (MCLIO) Interactive Mapping website. At the conclusion of this effort the responsibility for maintaining the files would shift to the Milwaukee County Automated Mapping and Land Information System and be managed under the direction of the MCAMLIS Project manager.

Activities this Period - 4/09-6/09

- Completed vendor selection and procurement process (Mid-City Blue, Inc.) to secure necessary scanning services
- MCAMLIS, SEWRPC and Mid-City Blue staff confirmed document transfer and preliminary scanning procedures while meeting at SEWRPC Headquarters
- Transferred a single drawer of documents (1100+) to be scanned and delivered scanned materials to MCAMLIS Staff for review and approval
- MCAMLIS Staff conducted review of the scanned document sample and provided comments to the vendor

NEXT

- Begin regular scheduling of scanning process once minor adjustments are made by the vendor
- Design, develop, test and deploy automated and manual procedures necessary to reference digitally scanned plat documents to a correct parcel location
- Design, develop, test and deploy MCLIO Web based document retrieval procedures utilizing the MCLIO Interactive Mapping Service website

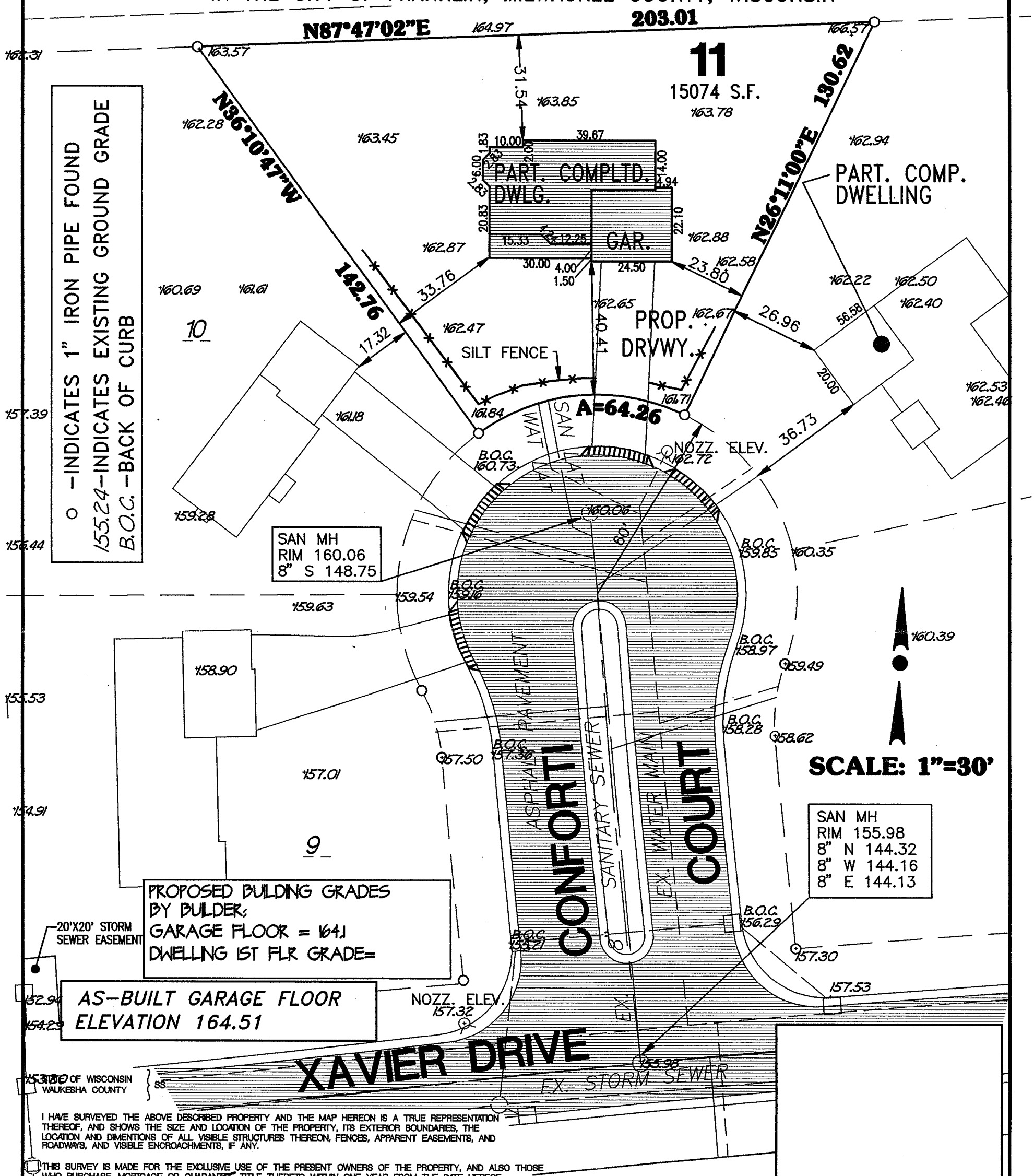
Attach: Scanned Plat of Survey example

****

5-21-2-4-0010

PLAT OF SURVEY

LEGAL DESCRIPTION: LOT 11 IN MISSION RIDGE, BEING A PART OF SOUTHEAST 1/4 OF SECTION 2, TOWN 5 NORTH, RANGE 21 EAST IN THE CITY OF FRANKLIN, MILWAUKEE COUNTY, WISCONSIN



STATE OF WISCONSIN
WAUKESHA COUNTY } SS

I HAVE SURVEYED THE ABOVE DESCRIBED PROPERTY AND THE MAP HEREON IS A TRUE REPRESENTATION THEREOF, AND SHOWS THE SIZE AND LOCATION OF THE PROPERTY, ITS EXTERIOR BOUNDARIES, THE LOCATION AND DIMENTIONS OF ALL VISIBLE STRUCTURES THEREON, FENCES, APPARENT EASEMENTS, AND ROADWAYS, AND VISIBLE ENCROACHMENTS, IF ANY.

THIS SURVEY IS MADE FOR THE EXCLUSIVE USE OF THE PRESENT OWNERS OF THE PROPERTY, AND ALSO THOSE WHO PURCHASE, MORTGAGE OR GUARANTEE TITLE THERETO WITHIN ONE YEAR FROM THE DATE HEREOF.

DATED THIS 26TH DAY OF FEBRUARY 19 97.

RECERTIFICATION 4-21-97

MICHAEL J. LOSIK, P.E., L.S.

WISCONSIN MICHAEL J. LOSIK S-1065 BROOKFIELD, WI LAND SURVEYOR

Michael J. Losik & Assoc., Inc.
Consulting Engineering
Land Surveying
Land Planning

Losik & associates

1717 Paramount Drive
Suite 301
Waukesha, WI 53186-3939
(414) 544-4221
FAX: (414) 544-6564

SURVEY PREPARED FOR: **SEAN REGAN HOMES**

JOB NO: **93-50**

387/93050-11/9POS

DEPARTMENT OF TRANSPORTATION & PUBLIC WORKS

MILWAUKEE COUNTY LAND INFORMATION OFFICE

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

TO: MCAMLIS Steering Committee

FROM: William C. Shaw, MCAMLIS Project Manager

DATE: July 15, 2009

SUBJECT: LiDAR IMAGE PILOT PROJECT STATUS

BACKGROUND

The MCAMLIS Steering Committee authorized staff to enter into a partnership agreement with UWM to co-sponsor acquisition of LiDAR data within a pilot designated test area(s). The products developed within the proposed pilot test areas will be used in determining the suitability of using LiDAR to guide the maintenance of topographic and planimetric features data managed by MCAMLIS.

The value of the MCAMLIS 2005 Topographic Mapping (an investment of over $3.2 million) is depreciating as changes are made on the ground. Identifying those changes are difficult without a method of detecting where features have been modified, added or removed. LiDAR is thought to provide a mechanism to highlight and direct maintenance activities, thus allowing staff to incrementally maintain rather than conduct wholesale replacement of topographic mapping features, as has been done in the past.

A MCAMLIS Staff Report regarding the feasibility and value of using this technology in support of detecting topographic and planimetric maintenance requirements will be delivered to the MCAMLIS Steering Committee within the 2nd Quarter of 2009. A staff recommendation regarding future use and direction of LiDAR technology will be provided subsequently.

ACTIVITIES THIS PERIOD – 4/09 – 6/09

- Received complete and final data from NCDC
- Conducted a thorough review of LiDAR derived structure outline features located within the three pilot study AOIs (attached report no.1 describing the LiDAR Pilot Study findings regarding planimetric feature change detection)

NEXT

- Receive 2009 topographic/planimetric feature data including the Marquette Interchange (July/August 2009)
- Develop, build and test feature detection process leading to final analysis, report and recommendation regarding the use of LiDAR for purposes of topographic feature delineation
- Present final report findings and recommendation(s)

Attach: LiDAR Pilot Project Report No. 1

****

An Evaluation of LiDAR-Derived Data for Purposes of Planimetric Change Detection

Milwaukee County Land Information Office
July 13, 2009

Introduction

The goal of this study was to gauge the potential of LiDAR-derived data for identifying areas where existing planimetric structure data requires updating due to development, redevelopment, or other changes. Also considered was the potential of LiDAR derivatives as an alternative to photogrammetry-derived data.

The potential of LiDAR-derived data to reliably pinpoint change is predicated upon the ability to build from raw LiDAR returns an accurate dataset that locates *all* structures. This study involves a simple analysis to estimate the accuracy of LiDAR-derived data by determining the percentage of actual ground features that are represented in LiDAR-derived structure polygon feature classes delivered by NCDC. This was accomplished by comparing data to cotemporaneous imagery (2008 NAIP orthophotography and 2008 oblique imagery) to identify the presence or absence of structures, along with other errors such as misclassifications and false positives.

Also, to establish a benchmark from which a comparison between photogrammetry-derived data and LiDAR-derived data might be made, 2005 structure polygons (sourced from 2005 topographic/planimetric data) were compared to actual ground features observed using 2005 orthographic imagery.

Methods Overview

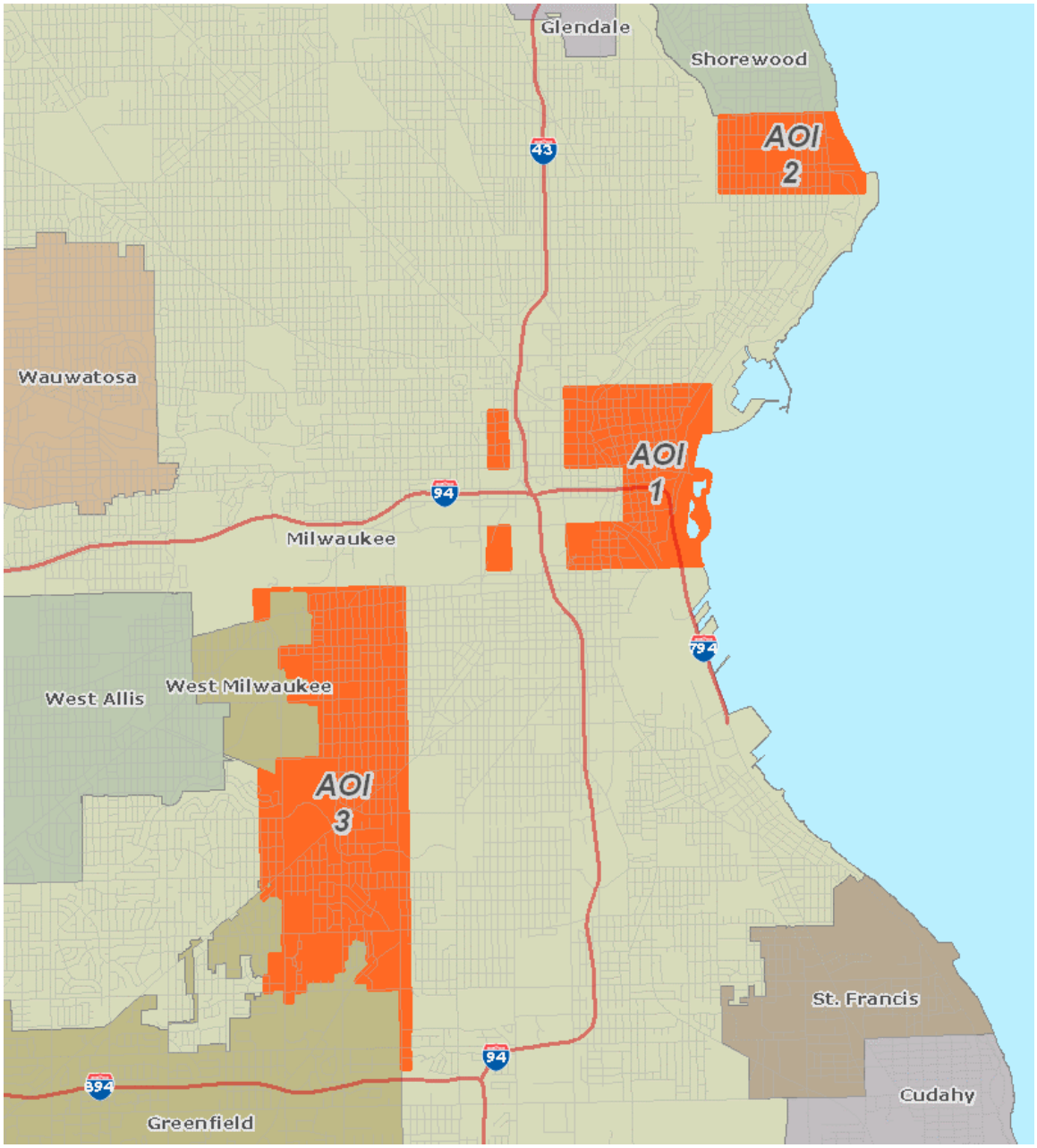
Structure polygons for each data source (2005 topo and LiDAR-derived) were clipped to the boundaries of 3 areas of interests established for the LiDAR pilot project (Figure 1), excluding the area near the Marquette Interchange that was not mapped for the 2005 topo delivery. The LiDAR-based data consists of polygon features generated by and classified as buildings by NCDC. The 2005 data consists of polygons generated from data created by and classified as structures using photogrammetric techniques.

Using various techniques, points representing the following were collected and summarized: a) the number of false positives (situations where data indicated the presence of a structure where none exists), b) the number of omissions (situations where data did not indicate the presence of a structure where one exists), and c) misclassifications (situations where data indicated the presence of a structure where a non-structure planimetric feature exists). The percentage of omissions was determined by dividing the number of observed omissions by the estimated number of structures, while the estimated number of structures was determined as follows:

# of structure polygons + # of omissions - # of false positives - # of misclassifications

The 2005 data was used as a guide to establish a standard for structure classification. In other words, the types of features classified as structures in the 2005 dataset (homes, garages, sheds, booths, parking structures, etc.) were considered when identifying the presence or absence of structures in the LiDAR-based data.

Figure 1: Areas of Interest, LiDAR Pilot Project



Results

TABLE 1: ERRORS		False positives		Omissions		Misclassifications	
AOI 1	2005 planimetric vs. 2005 imagery	1	0.1%	0	0.0%	0	0.0%
	LiDAR vs. 2008 imagery	42	5.8%	103	13.4%	13	1.8%
AOI 2	2005 planimetric vs. 2005 imagery	0	0.0%	0	0.0%	0	0.0%
	LiDAR vs. 2008 imagery	21	1.2%	751	**30.7%**	4	0.2%
AOI 3	2005 planimetric vs. 2005 imagery	3	0.0%	0	0.0%	3	0.0%
	LiDAR vs. 2008 imagery	122	1.4%	3641	**29.6%**	9	0.1%

TABLE 2: ESTIMATED NO. OF STRUCTURES

AOI 1	2005	872
	2008	771
AOI 2	2005	2553
	2008	2444
AOI 3	2005	13220
	2008	12302

TABLE 3: NO. OF POLYGONS REPRESENTING STRUCTURES

AOI 1	2005 planimetric data	873
	LiDAR-derived data	723
AOI 2	2005 planimetric data	2553
	LiDAR-derived data	1718
AOI 3	2005 planimetric data	13226
	LiDAR-derived data	8792

TABLE 4: GENERAL LAND USE BY AREA

AOI 1	TRANSPORTATION	48.8%
	RESIDENTIAL	5.6%
	GOVERNMENT & INSTITUTIONAL	7.1%
	OPEN LANDS	9.6%
	RECREATIONAL	9.9%
	COMMERCIAL	9.8%
	INDUSTRIAL	8.0%
	COMMUNICATION & INSTITUTIONAL	1.3%
AOI 2	TRANSPORTATION	25.4%
	RESIDENTIAL	**42.2%**
	GOVERNMENT & INSTITUTIONAL	16.4%
	OPEN LANDS	11.4%
	RECREATIONAL	3.0%
	COMMERCIAL	0.6%
	INDUSTRIAL	0.0%
	COMMUNICATION & INSTITUTIONAL	1.0%
AOI 3	TRANSPORTATION	32.4%
	RESIDENTIAL	**35.1%**
	GOVERNMENT & INSTITUTIONAL	12.9%
	OPEN LANDS	6.1%
	RECREATIONAL	5.5%
	COMMERCIAL	4.3%
	INDUSTRIAL	3.1%
	COMMUNICATION & INSTITUTIONAL	0.6%

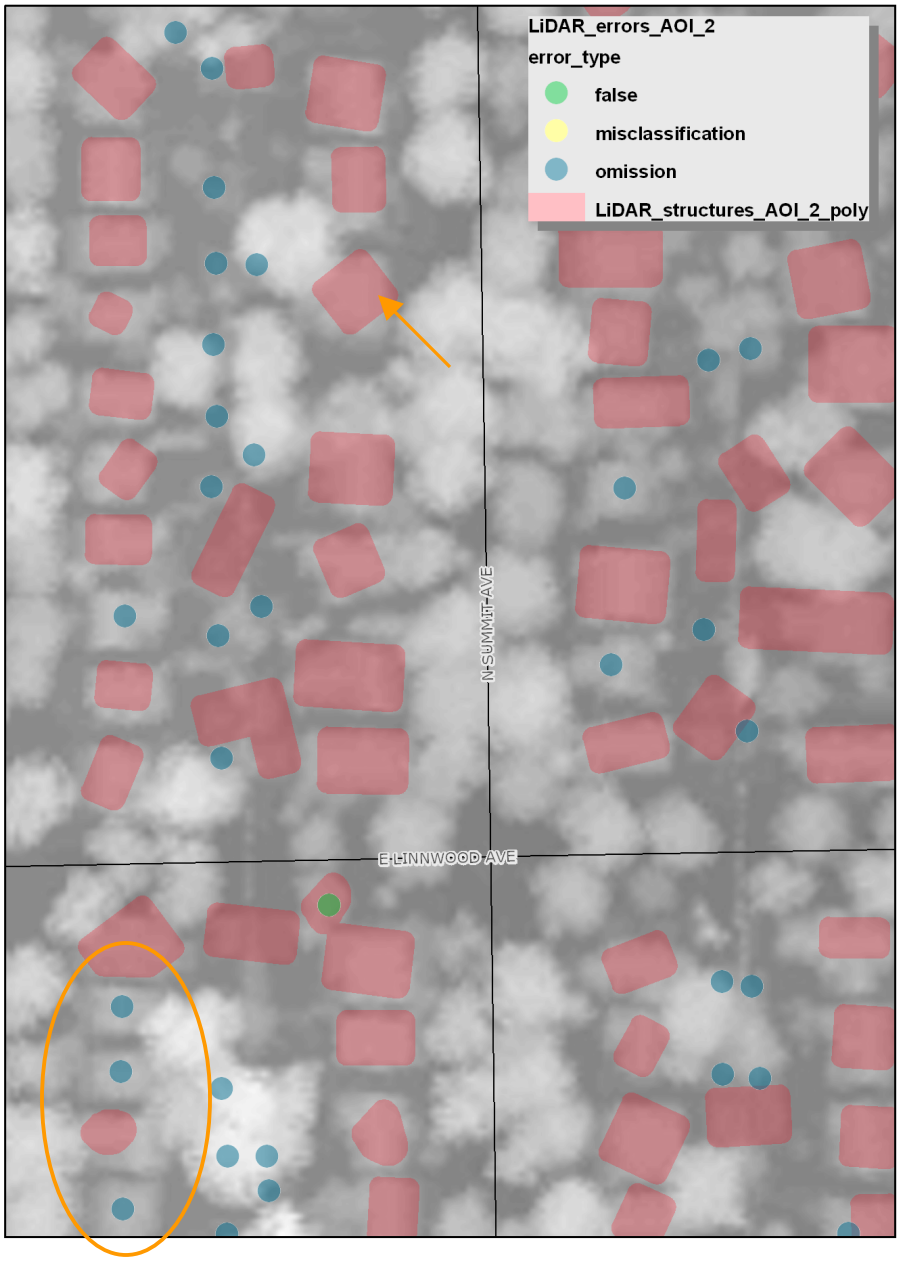
Observations & Discussion

1) The most serious deficiency observed in the LiDAR-based data is in its accuracy, or the rate at which ground features are represented in the data (omissions: Table 1, Results). Leaf-on conditions during the collection of LiDAR returns seem to be the predominant explanation for the percentage of structures that are not represented in the LiDAR-derived data. This is not always the case, however, as evidenced in Figure 2b, where small structures that were not included in the LiDAR-derived structure data are visible in the first returns imagery. In may cases, however, trees along streets, alleys, and in the yards of denser residential areas tended to obscure structures, hindering the ability of the vendor's algorithm to distinguish tree crowns from rooftops. This phenomenon was most pronounced in AOIs 2 & 3, which had the greatest rates of residential land use among the three AOIs (land use: Table 4, Results).

2) A lack of precision is another key shortcoming observed in the LiDAR-derived data structure data. A tendency to skew and misshape the geometry of planimetric features was observed in the LiDAR data (Figures 2a & 2b). Although this phenomenon would not necessarily preclude the use of LiDAR derivatives for change detection through the identification of new ground features (assuming the LiDAR derivatives captured all features in a given planimetric category), it would preclude its use as a reliable alternative to photogrammetry for determining the precise location, shape, and orientation of planimetric features. Comparing the LiDAR-derived data to the LiDAR first returns imagery reveals that this phenomenon may largely be the result of the algorithm used by the vendor, since such phenomenon is not evident in the first returns imagery (Figure 2b).

Figure 2a: Precision& accuracy of LiDAR-derived structure polygons (ortho background)

Figure 2b: Precision & accuracy of LiDAR-derived structure polygons (first returns background)

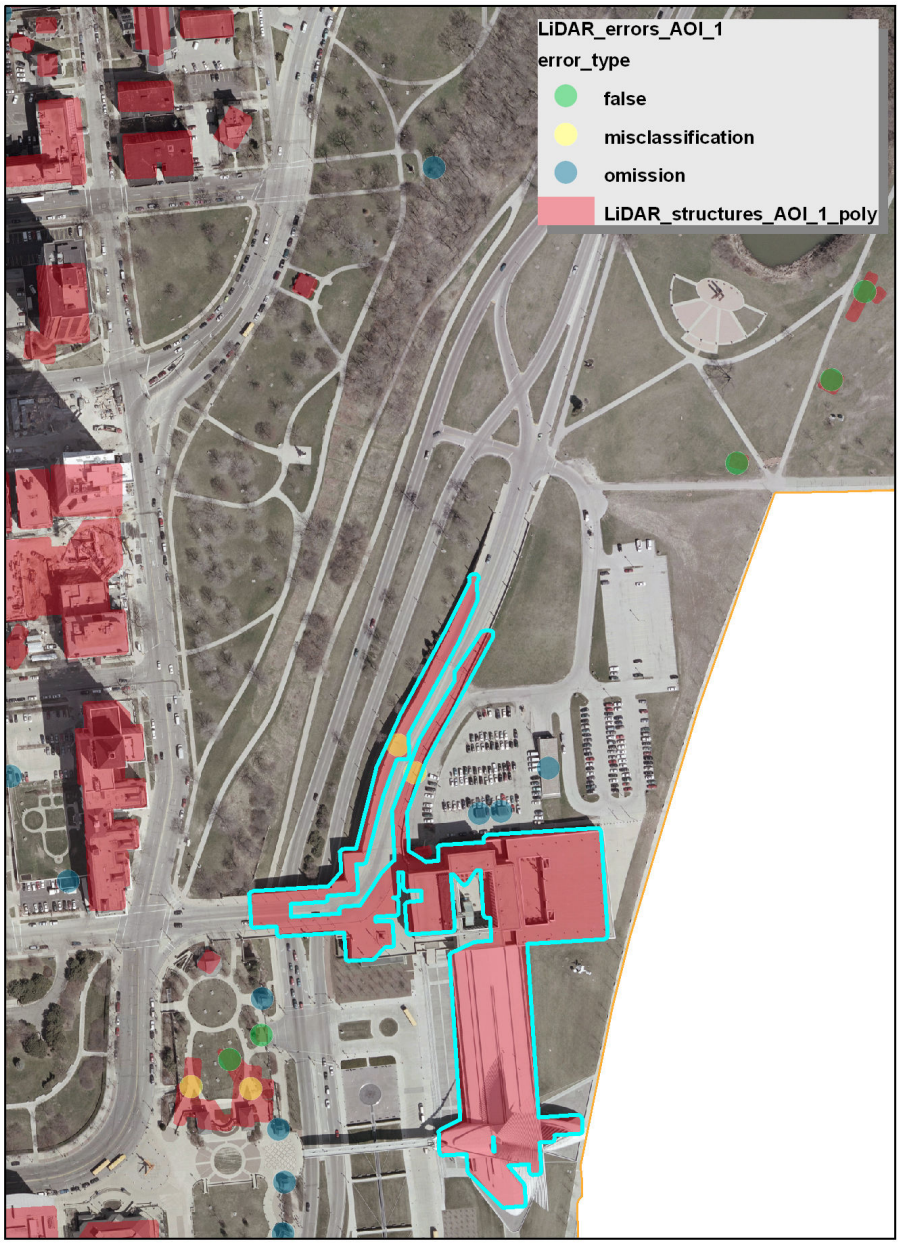


3) The sensitivity of NCDC's LiDAR classification algorithm leads to a slight tendency toward the delineation of features that don't exist (false positives: Table 1, Results), as well as the classification of non-structure ground features as structures (misclassifications: Table 1, Results). While the rates of false positives and misclassifications are relatively low in the LiDAR data, they are virtually nonexistent in data collected via photogrammetric means.

4) In many cases, the process used to translate LiDAR returns into structure polygons was unable to distinguish between ground features that are proximal but distinctly different, especially in case where structures share a common wall or are separated by a few feet or less. An example of this is shown in Figure 3, in which the art museum, the war memorial, and an elevated portion of the entrance to the war memorial are identified as a single feature in the LiDAR-derived data. Along with omissions in the LiDAR-based data due to tree cover, such a phenomenon accounts partly for the difference between the number of polygons in the 2005 dataset and the

LiDAR-based dataset. Cursory observation indicates that, for instance, photogrammetric techniques would likely provide two polygons that represent two small garages separated by a few feet or less, whereas the LiDAR derivative would likely yield a single polygon to represent the two features. This is problematic if an accurate count of planimetric features is desired, or if one wishes to directly compare the number of structures represented in LiDAR-derived data to existing planimetric data.

Figure 3: Example of differentiation errors in LiDAR-derived data



Conclusion & Recommendations

The potential of LiDAR-derived products as a means of identifying planimetric change is predicated upon the ability to locate *all* features in a given planimetric classification. The pilot project's LiDAR-derived data does not meet this criterion. The primary issue is the omission of features observed in the LiDAR-derived planimetric data, precluding its use as a reliable change-detection tool. Although not quantified, leaf-on conditions appear to have largely hindered a complete gathering of ground features, limited by the ability of LiDAR signals to penetrate dense tree crowns. If LiDAR collected under *leaf-off* conditions can yield structure identification rates that rival current photogrammetric products, LiDAR derivatives (when interpreted in concert with orthoimagery, obliques, & existing planimetric data) may be of considerable value in planimetric change detection efforts.

Due to the observed weaknesses of LiDAR planimetric derivatives, further consideration of their application to planimetric data maintenance efforts is not recommended. As LiDAR may hold promise as a source of topographic information, continued analysis remains to assess the quality of LiDAR-derived data as a topographic data source.

DEPARTMENT OF TRANSPORTATION & PUBLIC WORKS

MILWAUKEE COUNTY LAND INFORMATION OFFICE

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

MEMORANDUM

TO: MCAMLIS Steering Committee

FROM: William C. Shaw, MCAMLIS Project Manager

DATE: July 14, 2009

SUBJECT: MCAMLIS Copyright and Data Distribution Policies Status

BACKGROUND

The Milwaukee County Automated Mapping and Land Information System (MCAMLIS) Steering Committee approved a project directing staff to implement recommended revisions to existing MCAMLIS Copyright and Data Distribution Policies.

This project was formulated as a result of Steering Committee approval of the Utilities Sub-Committee recommendations regarding MCAMLIS Copyright and Data Distribution Policies. The Utilities Sub-Committee recommendations were as follows:

- The Utilities Sub-Committee interest in the MCAMLIS Copyright should be dissolved and that action should be taken to affect this change;
- MCAMLIS Staff should continue to work, assisted by Mr. Schwartz, Attorney, Quarles & Brady LLP, to compose an appropriate letter to AT&T requesting a statement from them regarding their continuing interest in the MCAMLIS Copyright;
- MCAMLIS Staff (assisted by Mr. Schwartz) should report the impact of this action and recommend suitable alternative policy to the Steering Committee once action to dissolve the copyright had been taken.

ACTIVITIES THIS PERIOD – 4/09 - 6/09

- MCAMLIS Staff obtained signed copies of the revised MCAMLIS License Agreement from each of the utilities and several parties holding interest in the MCAMLIS Copyright outcome

NEXT

- Proceed with development of alternative policy

Attach: Revised MCAMLIS License Agreement
Dogged – Commentary regarding MCAMLIS Copyright Protection as part of the blogosphere

* * * * *

REVISED LICENSE AGREEMENT

WHEREAS, the Southeastern Wisconsin Regional Planning Commission, Milwaukee County, Wisconsin Bell Inc. d/b/a AT&T Wisconsin, Wisconsin Electric Power Company and Wisconsin Gas LLC both d/b/a We Energies, the City of Milwaukee, the Milwaukee Metropolitan Sewerage District, and the Intergovernmental Cooperation Council of Milwaukee County are currently members of the Milwaukee County Automated Mapping And Land Information System Steering Committee (the "Steering Committee"), a committee that maintains an automated mapping and land information system covering Milwaukee County, including, among other things, information and materials relating to 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 Wisconsin Bell, Wisconsin Electric Power Company, and Wisconsin Gas LLC (formerly Wisconsin Gas Company)(the "Utilities") in connection with those activities the Steering Committee entered into in 1993 a "License Agreement" governing ownership, access, and use of the Materials;

AND WHEREAS, the Steering Committee (including the Utilities) wish to revise that License Agreement;

NOW THEREFORE, the License Agreement is hereby revised (effective May 18, 2009) to read as follows:

1. Copyright Ownership. The Steering Committee shall own copyright title to all of said Materials. Thus, to the extent the Utilities currently own any copyright or other rights to the "Materials" in digital form (the "Digital Materials") they hereby transfer those rights to the Steering Committee. Hence, copyright title to all the Materials shall therefore be owned by the Steering Committee, or its future designee(s) if any.

2. License. All members of the Steering Committee and their affiliates 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 members of the Steering Committee and their affiliates 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, absent the consent of a majority of the Steering Committee (directly or through adopted policies), none of the Steering Committee members may authorize distribution of copies of the Digital Materials (or digital form materials substantially based thereon) to others for the commercial purposes of those besides the Steering Committee and their affiliates.

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 there under.

4. Also, nothing herein shall preclude a member of the Steering Committee from complying with a court order that it has not stipulated to.

5. All members of the Steering Committee hereby agree that in deciding whether to assert the Steering Committee's 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 for a non-profit purpose (e.g. a University of Wisconsin researcher). Also, 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 satisfies then applicable Steering Committee policies that have been adopted by a majority of the Steering Committee.

AT&T (WISCONSIN BELL INC.)

Date 2/13/09 By Paul M Wilson

Attest Andrew Shaw

WISCONSIN ELECTRIC POWER COMPANY

Date 3/31/09 By CL Cole

Attest Carmen Aldana

WISCONSIN GAS LLC

Date 3/31/09 By CL Cole

Attest Carmen Aldana

MILWAUKEE METROPOLITAN SEWERAGE DISTRICT

Date 4/21/09 By _____

Attest _____

SOUTHEASTERN WISCONSIN
REGIONAL PLANNING COMMISSION

Date _____ By _____

Attest _____

CITY OF MILWAUKEE

Date 5/19/09 By _____

Attest _____

INTERGOVERNMENTAL COOPERATION
COUNCIL OF MILWAUKEE COUNTY

Date 6/3/09 By _____

Attest _____

MILWAUKEE COUNTY

Date 6/8/09 By _____

Attest _____

6565830

* * * * *

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Milwaukee County mapping site using copyrighted data

By Ben Poston of the Journal Sentinel

May 26, 2009

The new Milwaukee County interactive mapping application went online in March.

Known as the Milwaukee County Automated Mapping and Land Information System (MCAMLIS), it allows users to query and export property information at the parcel level. So you can search anywhere in the county to see what your neighbor's property is assessed at and then export that information to a spreadsheet or do a screen capture.

But here's what's interesting: The geographical data in the mapping application is copyrighted by the private utilities that helped pay roughly $1.5 million for its creation. Those companies are We Energies and AT&T.

To quote the site:

" … at the outset, it was recognized that an infusion of monetary resources from the private sector was necessary to create an automated mapping base for the County in a timely fashion. In response to this need, We Energies and AT&T invested significant private capital in the MCAMLIS program … in order to protect their investments, the private utility members of MCAMLIS have been granted the MCAMLIS copyright to the mapping base in its digital form."

What does that mean?

The only people who have "secure access" to the copyrighted geographical layer data are those who work for WE Engeries or AT&T or those who work for local governments including the cities of Milwaukee, Glendale, Wauwatosa, St. Francis, West Allis, Cudahy, South Milwaukee, Greenfield, Franklin and Oak Creek, and the villages of Bayside, River Hills, Brown Deer, Whitefish Bay, Fox Point, Shorewood, West Milwaukee, Hales Corners and Greendale.

Also, the Milwaukee Metropolitan Sewer District and the Southeastern Wisconsin Regional Planning Committee partnered with the county mapping project, so their employees have access too.

While that sounds like a plot to keep public data from the public, you can still make a record request to get the copyrighted geo data.

If you want to request geographical parcel-level data of a neighborhood or of the entire city, you can send a data request to Bill Shaw, the online mapping project Manager from the Milwaukee County Land Information Office, and pay a reasonable fee depending on the time it takes to process your request.

So it's not totally off limits to the public.

But as a person who uses mapping software, I know that I can connect to the City of Milwaukee's mapping site through my desktop ArcView GIS software and import geographic data, or "shape files" that can show me where traffic accidents or homicides occurred or property information.

And it's free.

Shaw said that the issue of privately copyrighted data should be resolved later this summer as the private utilities seek to move the ownership of the geo data back to the county.

"The utilities were simply allowed to copyright it, but since that time they have divested themselves of the copyright," Shaw said. "The new distribution rules will say the county owns the copyright instead of the utilities. There is a perceived problem and that problem is being resolved."

So the publicly collected data might finally belong to the public again.

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The data is indeed off limits to the public. You make a request, you pay a fee, you wait, and you get paper printouts. Not structured data you can use in any meaningful sense in the contemporary world. This is an unacceptable practice for any level of government now. Data.gov was just unveiled. It's time for WI to get on board the data train.

The real problem with MCAMLIS is it cuts against the public interest by sequestering data created by publicly funded entities behind restrictive, proprietary interfaces and formats, to say nothing of the copyright issues and strange "public-private" partnership with the utilities. This is a dangerous trend that has immediate frustrations for people outside the professional and political inner circles--i.e. the public--who want public data.

You may be able to use ArcView GIS to conveniently access and display City data, but numerous community organizers and block watch members cannot.

ArcView GIS software is not cheap, and the company (ESRI) behind it has been locking up vendor deals with States like WI for virtual monopolies. Even if they were not heavily involved in defense contracts and pay-for-play scandals involving members of congress, there are democratic and economic reasons why governmental entities should NOT use ONLY proprietary data formats.

Many people in Milwaukee want good, timely, usable (i.e. mappable) data on things like crime and property, but the City (like the County) seems to think mainly in terms of restriction. Such thinking reveals a paternalistic, self-protective, and accountability-avoiding mindset in our local governments; it must be swept aside.

Hux

Thursday May 28, 2009 4:45 PM » Report abuse

In response to the above comment, please be advised that the last paragraph is in error because the City of Milwaukee has made its property, crime, and other data available to anyone with simple access to the Internet through its Map Milwaukee and COMPASS site. (Google mapmilwaukee.com)

The City is a national (perhaps global) leader in making its data available at low(or no) cost to the public for many years. Our city officials recognized many years ago that the data that was developed in the City's geographic information system (GIS) has many benefits beyond just city government and has reached out to the community to offer this low-cost access to not only the data (downloadable, I might add, to anyone who can use it in their own software) but also many GIS functions. It has won national awards for this capability. Your money is at work!

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Please login or register to post a comment.

Dogged
Talking about walkaways (2)

Hubbub
Could take magic to get midnight "Harry Potter" tickets

Waukesha FYI
Report on Waukesha use of Underwood Creek due soon (3)

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The thing about the Sotomayor hearings that drives me crazy. (93)

School Zone
MPS selects firm for superintendent search

Wasted in Wisconsin
Racine man heads to trial for allegedly killing dog while driving drunk (3)

Milwaukee Homicides
3 men killed in weekend homicides (8)

Latino Connection
In recess (1)

Uncommon Causey
3 arrested in death of Florida couple (39)

Mahal in Milwaukee
Step Inside the Orangutan Yard

OTHER NOTABLE WATCHDOG LINKS

- Investigative Reporters & Editors
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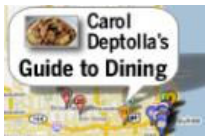

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Hiking Guide

Milwaukee Moms' guide to local trails

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MEMORANDUM

TO: MCAMLIS Steering Committee

FROM: Kurt W. Bauer, PE, RLS, AICP
Milwaukee County Surveyor

DATE: July 10, 2009

SUBJECT: MILWAUKEE COUNTY SURVEYOR ACTIVITIES—2008

This memorandum is intended to provide the MCAMLIS Steering Committee with a report on the work of the Milwaukee County Surveyor for the calendar year January 1, 2008, through December 31, 2008. The office, and the 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. Consequently, the work requires expertise in geodetic, as well as plane, surveying and in the legal aspects of property boundary determination.

Attachment 1 to this memorandum consists of a map of Milwaukee County on which are shown the location of all of the corners of the U.S. Public Land Survey System within Milwaukee County for which various types of perpetuation activities were undertaken in calendar year 2008. These activities involved the replacement of section, quarter section, center of section, and witness and meander corners which were reported as damaged, disturbed, destroyed, or proposed to be 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. The work also involved the completion of 11.5 miles of high order differential level lines as required to maintain the vertical control network. New records of U.S. Public Land Survey control station records -- dossier sheets -- were prepared for each corner concerned.

It should be noted that, in accordance with Milwaukee County policies relative to the participation and use of disadvantaged business enterprises in the provision of County services, a contract was entered into with the firm of Dakota Intertek Corporation of Milwaukee, Wisconsin -- a minority owned firm -- to provide assistance to the County Surveyor pertaining to the maintenance of the U. S. Public Land Survey System. More specifically, the contract provided for assistance in the remonumentation of broken or substandard concrete monuments marking the location of corners pertaining to the system. The contract specified 14 such monument locations where the contractor was instructed by the County Surveyor as to what type of work was to be performed and the specifications that were to be followed. After completion of such work, the County Surveyor performed an inspection of the monument installations, all of which were found to be in compliance with the specifications governing the work. Payment was made to the contractor in the amount of $24,880.39 on October 3, 2008. This amount constituted 32 percent of the total cost of the County Surveyor services, thus substantially exceeding the goal established by Milwaukee County for the participation of a disadvantaged business enterprise in this regard.

A copy of one of the new dossier sheets is provided in Attachment 2 to this memorandum as an example of a completed sheet. As indicated on Attachment 1, a total of 60 U.S. Public Land Survey corners were involved in the perpetuation activity for the calendar year. In some cases, the perpetuation activity resulted in the determination of revised elevations for both the corners and the attendant benchmarks. In such cases, control survey summary diagrams were updated to reflect these changes. A total of 31 diagrams required changes. A copy of one of the revised diagrams concerned is herewith provided as Attachment 3, also as an example of a completed sheet.[1]

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 December 31, 2008, the County Surveyor received, indexed, and filed 1,476 copies of new land surveys completed within the County. In addition, the Commission began a project to incorporate into the filing system historic plats of surveys acquired from a now defunct land surveying firm, totaling literally thousands of plats, bringing the total number of records of land surveys completed within the County, which have been filed with the County Surveyor since the inception of this work in 1984, to 71,570. The filed records are indexed to permit retrieval by name of the surveyor concerned, the property owner concerned, the address of the property concerned, if shown on the plat, the date of the survey plat, the civil division, and the U.S. Public Land Survey Township and Range, and Section and 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. During 2007, the County Surveyor performed quality control for the large-scale topographic mapping being prepared by a photogrammetric mapping firm under the current MCAMLIS project for replacement of large scale digital topographic mapping for the entirety of Milwaukee County. This work involved office review and editing of approximately 137.3 square miles of the topographic maps nominally comprising Townships 5 and 6 North, Ranges 21 and 22 East. Following this office review and editing, the maps were field checked for compliance with the accuracy specifications governing the mapping work. Profiles were taken over a selected sample of map sheets, and the field data compared to the horizontal and vertical position of

[1] Copies of all 60 dossier sheets and all 31 modified control summary diagrams have been provided with a copy of this memorandum to: 1) William Shaw; 2) Marcia Lindholm; 3) Greg High; 4) Dan Talarczyk; and 5) Andrea Urbaniak.

contour lines and other salient features shown on the maps. The comparison indicated that the maps were indeed prepared in accordance with the specifications governing the project, specifically those requiring compliance with National Map Accuracy Standards.

* * *

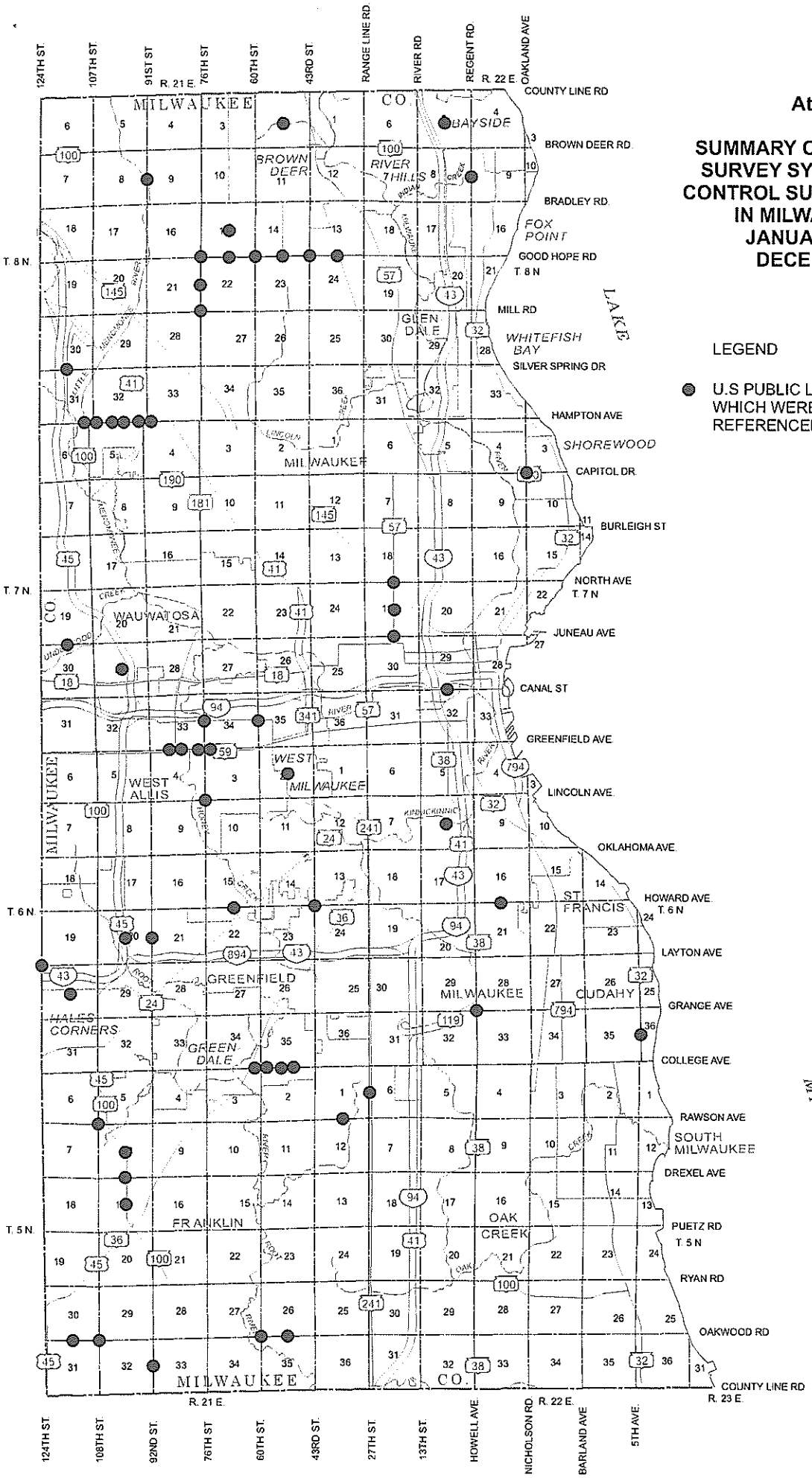
KRY/KWB/lgh
#145813 v1 - MKE CO. SURVEYOR ACTIVITIES 2008

Attachments

cc: Kurt W. Bauer
Donald P. Simon

Attachment 1

SUMMARY OF U.S. PUBLIC LAND SURVEY SYSTEM CORNER AND CONTROL SURVEY PERPETUATION IN MILWAUKEE COUNTY: JANUARY 1 THROUGH DECEMBER 31, 2008



LEGEND

- U.S PUBLIC LAND SURVEY CORNERS WHICH WERE REMONUMENTED AND/OR REFERENCED IN 2008 (60)

GRAPHIC SCALE

0 1 2 MILE

0 4,000 8,000 12,000 16,000 FEET

Source: SEWRPC.

RECORD OF U. S. PUBLIC LAND SURVEY CONTROL STATION

U. S. PUBLIC LAND SURVEY CORNER 13|13 / 24|24 T 8 N, R 21 E, MILWAUKEE COUNTY, WISCONSIN

HORIZONTAL CONTROL SURVEY BY: AERO-METRIC ENGINEERING, INC. YEAR: 1987

VERTICAL CONTROL SURVEY BY: SEWRPC YEAR: 2008

STATE PLANE COORDINATES OF: QUARTER SECTION CORNER

NORTH 425,271.52

EAST 2,545,594.93

ELEVATION OF STATION: 697.038

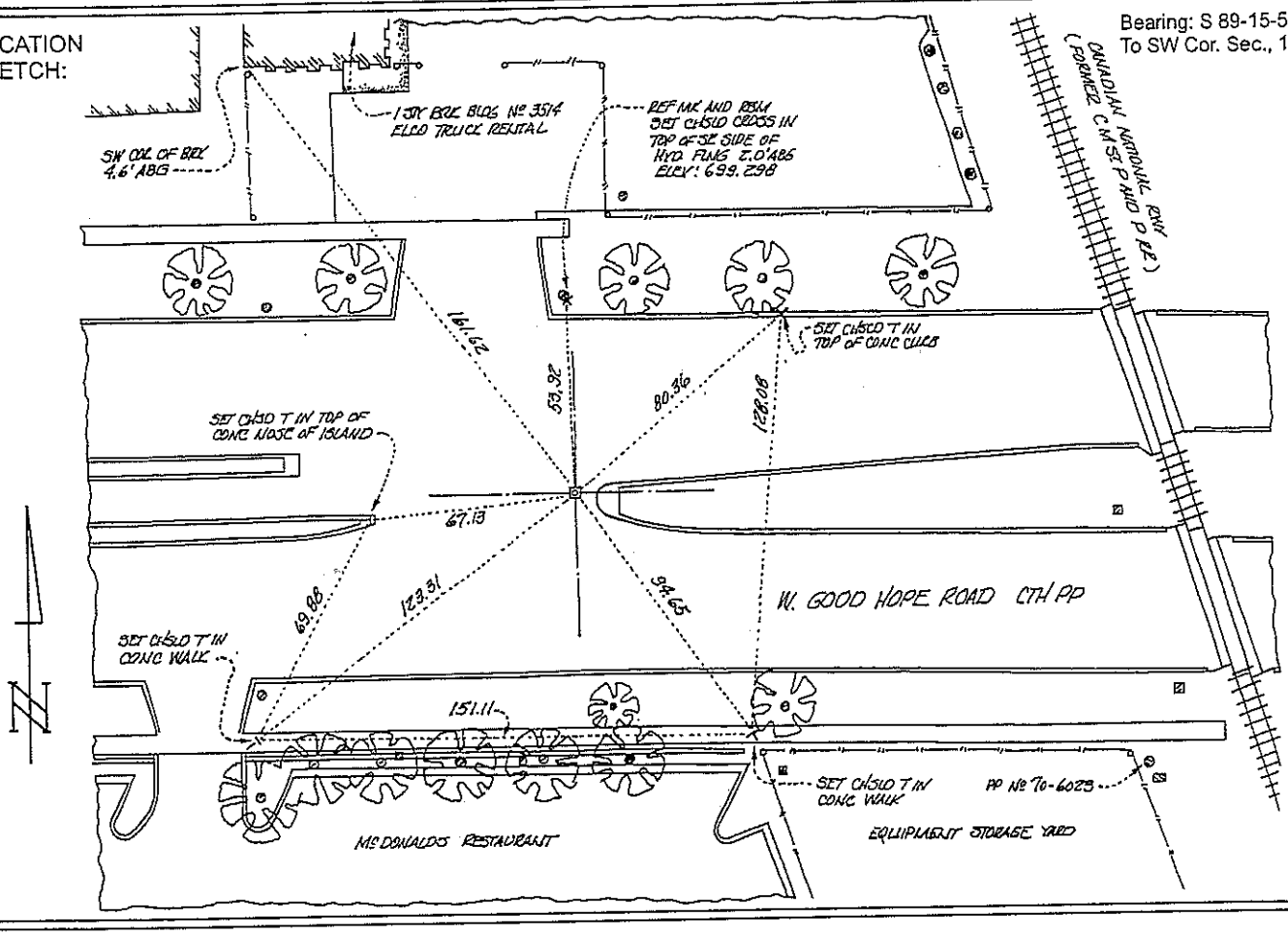
HORIZONTAL DATUM: WISCONSIN STATE PLANE COORDINATE SYSTEM, SOUTH ZONE
NORTH AMERICAN DATUM OF 1927

VERTICAL DATUM: NATIONAL GEODETIC VERTICAL DATUM OF 1929 THETA ANGLE: +1-24-18

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

LOCATION SKETCH:

Bearing: S 89-15-52 W
To SW Cor. Sec., 13, 8-21



SURVEYOR'S AFFIDAVIT:

STATE OF WISCONSIN)
MILWAUKEE COUNTY) SS

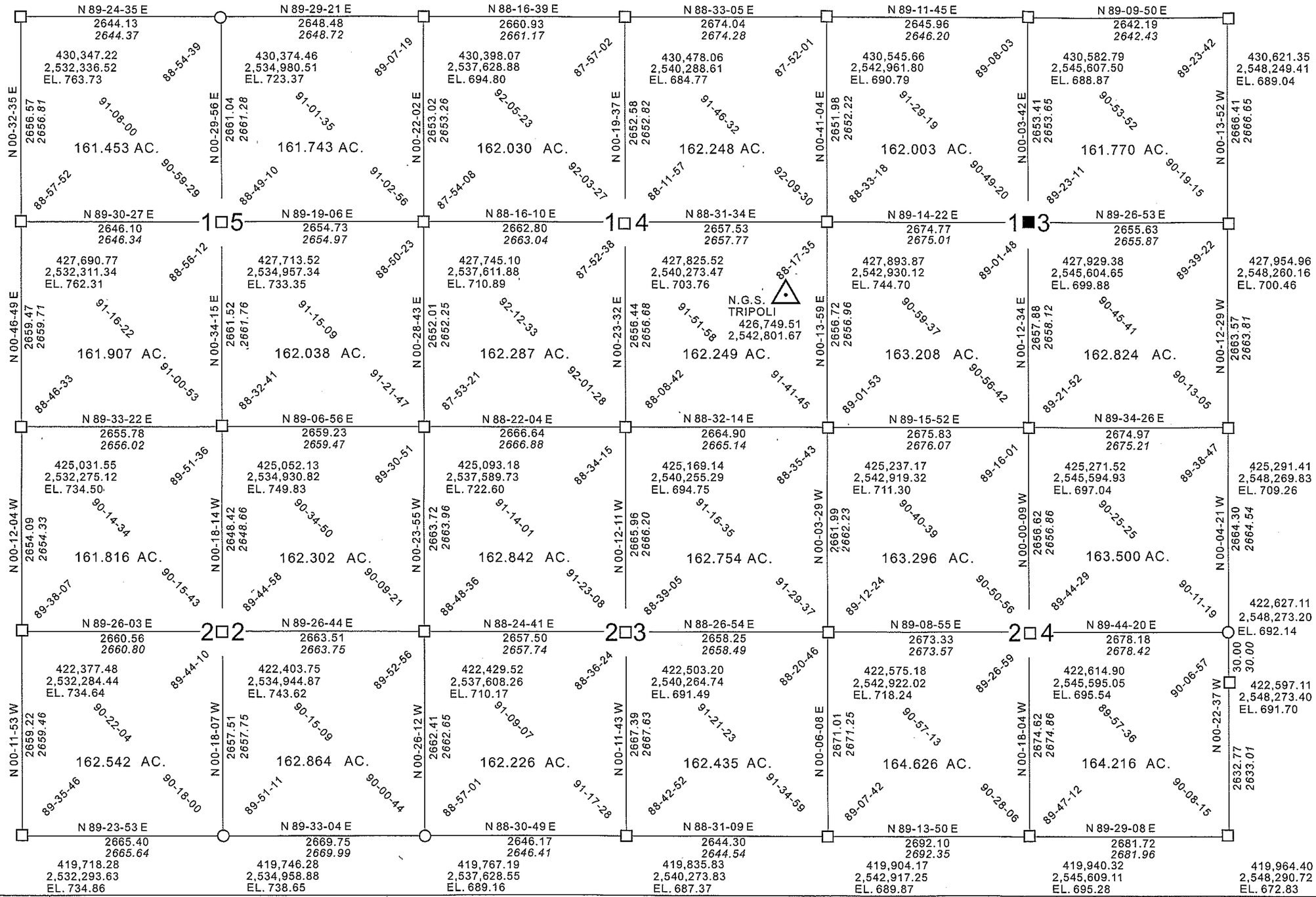
As Milwaukee County Surveyor, I hereby certify that following highway reconstruction, I set a 30-inch-long concrete monument with SEWRPC brass cap to mark the location of this corner, said corner location falling over a concrete storm sewer, the top of the concrete storm sewer being 32 inches below the top of the finished pavement surface; replacing a deteriorated 21-inch-long concrete monument with SEWRPC brass cap; said concrete monument having been set to mark the location of this corner over said concrete storm sewer in January 1987 by Kenneth E. Berke, S-107, at the intersection of four chiseled notches set in the then existing concrete pavement; said notches having been placed to offset a 1.25-inch-diameter brass rod set in the then existing concrete pavement to mark the location of this corner; said brass rod believed to have bet set by the City of Milwaukee Engineer; said brass rod having subsequently been removed during the relocation of an electrical conduit by the Milwaukee County Department of Public Works prior to and for the purpose of the installation of the concrete monument set by Mr. Berke; Mr. Berke having found the location of said brass rod to be in agreement with real property boundary line surveys performed in the vicinity; said brass rod having been found and accepted as marking the location of this corner in November 1967 by Owen P. Rexford, Milwaukee County Department of Public Works Inspector; said brass rod replacing an old cut limestone monument believed to have been set to mark the location of this corner circa 1880 in the conduct of the remonumentation of the Town of Granville; replacing in turn a wood post set to mark this corner in March 1836 by William A. Burt, Deputy United States Surveyor, in the conduct of the original United States Public Land Survey; that I have referenced the same as shown hereon; and that this record is correct and complete to the best of my knowledge and belief.

WISCONSIN K. W. BAUER MILWAUKEE WIS. LAND SURVEYOR

DATE OF SURVEY: 22 October 2008 Kurt W. Bauer S-157

REGISTERED LAND SURVEYOR

FORM PREPARED BY SOUTHEASTERN WISCONSIN REGIONAL PLANNING COMMISSION



LEGEND

- □ U.S. PUBLIC LAND SURVEY CORNER, MARKED BY 6" x 6" x 36" CONC. MONUMENT WITH SEWRPC BRASS CAP.
- ■ U.S. PUBLIC LAND SURVEY CORNER, MARKED BY 6" x 6" X 36" CONC. MONUMENT WITH BRASS CAP.
- ○ U.S. PUBLIC LAND SURVEY CORNER, MARKED BY OTHER MONUMENTATION.
- △ N.G.S. HORIZONTAL CONTROL STATION.

+01° 23' 26"
TN GN

HORIZONTAL DATUM IS BASED ON THE WISCONSIN STATE PLANE COORDINATE SYSTEM GRID, SOUTH ZONE (NAD-27), AND ALL BEARINGS ARE REFERRED TO GRID NORTH.
COMBINATION SCALE AND SEA LEVEL REDUCTION FACTOR: 0.99990900
DIMENSIONS SHOWN IN ITALICS INDICATE GROUND LEVEL DISTANCES.
VERTICAL DATUM IS BASED ON NATIONAL GEODETIC VERTICAL DATUM OF 1929.
SUBTRACT 580.60 TO PLACE ELEVATIONS ON CITY OF MILWAUKEE DATUM.

CONTROL SURVEY SUMMARY DIAGRAM
FOR
SECTION SURVEYS
IN THE
CITIES OF GLENDALE AND MILWAUKEE; AND VILLAGES OF BROWN DEER AND RIVER HILLS
MILWAUKEE COUNTY, WISCONSIN

DRAWN BY: R. H. HEINEN	DATE: SEPT., 1967
CHECKED BY: D. R. BEHNKE	DATE: SEPT., 1967
APPROVED BY:	DATE: SEPT., 1967
REVISED: N. A. NEJEDLO	DATE: NOV., 2007
REVISED: N. A. NEJEDLO	DATE: JUNE, 2009

DOSSIER SHEETS CONTAINING ALL INFORMATION NECESSARY FOR RECOVERY AND USE OF CONTROL SURVEY STATIONS AVAILABLE FROM SEWRPC.

SECTIONS
15, 14, 13, 22, 23, 24
T. 8 N., R. 21 E.
MILWAUKEE COUNTY

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MEMORANDUM

TO: MCAMLIS Steering Committee

FROM: SEWRPC Staff

DATE: July 9, 2009

SUBJECT: STATUS REPORT ON THE MILWAUKEE COUNTY FLOODLAND MAPPING PROJECT

This memorandum sets forth the progress made on the Milwaukee County Floodland Mapping project from March 14, 2009, through June 30, 2009. This status report addresses project progress in the following three major areas:

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

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 from March 14, 2009 through June 30, 2009, the following data acquisition activities were carried out:

- As indicated by Exhibit 1, data acquisition activities are substantially completed for all study areas, except the Root River watershed.
- The Commission staff made a field reconnaissance along Woods and Honey Creeks.
- When additional data needs are identified as work proceeds, the acquisition of the data will be coordinated with the Milwaukee Metropolitan Sewerage District (MMSD), the Wisconsin Department of Natural Resources (WDNR), the Wisconsin Department of Transportation (WisDOT), and the pertinent communities.

HYDROLOGIC AND HYDRAULIC MODELING

During the reporting period, progress on hydrologic and hydraulic modeling included the following:

Kinnickinnic River Watershed

- Continued work on refining the hydrologic and hydraulic models for S. 43rd Street Ditch.

Menomonee River Watershed

- Continued work on the hydraulic model for Honey Creek.
- Worked on refining the hydraulic models for the Little Menomonee River and Woods Creek.

FLOODLAND MAP PREPARATION

Fish Creek Watershed

- Digitized preliminary 10-, 50-, 100-, and 500-year floodplain boundaries and the 100-year floodway boundary along Fish Creek.

Kinnickinnic River Watershed

- Delineated and digitized the final 10-, 50-, and 500-year floodplain boundaries along the main stem of the Kinnickinnic River and Wilson Park Creek/Edgerton Channel.
- Delineated and digitized the final 10-, 50-, 100-, and 500-year floodplain boundaries and the 100-year floodway boundary along Villa Mann Creek and the Villa Mann Creek Tributary.
- Delineated preliminary 10-, 50-, and 500-year floodplain boundaries along Lyons Park Creek. Digitized preliminary 10-, 50-, 100-, and 500-year floodplain boundaries and the 100-year floodway boundary along Lyons Park Creek.

Menomonee River Watershed

- Delineated and digitized preliminary 10-, 50-, 100-, and 500-year floodplain boundaries and the 100-year floodway boundary along Woods Creek.

PROPOSED SCHEDULE FOR COMPLETION OF PROJECT

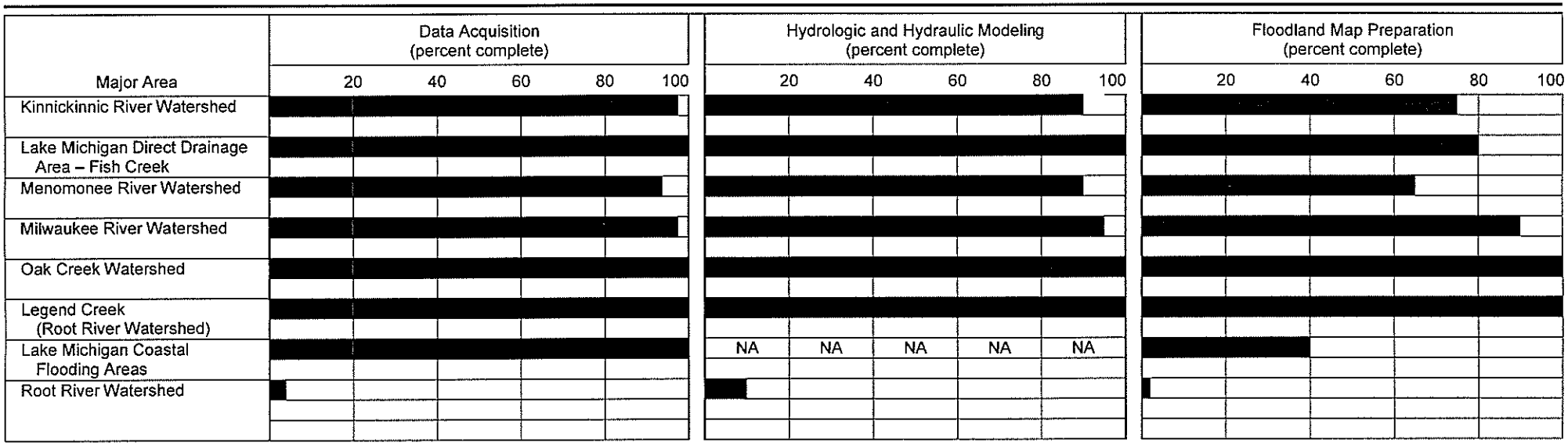
The maximum possible level of SEWRPC staff resources is now committed to this project, with three engineers devoting substantial time to this project on a continuing basis. The project is scheduled to be completed by December 31, 2010.

* * *

#145714 V1 - MCAMLIS MILW CTY FLPL STATUS RPT 2009-2
KWB/MGH/pk

Exhibit 1

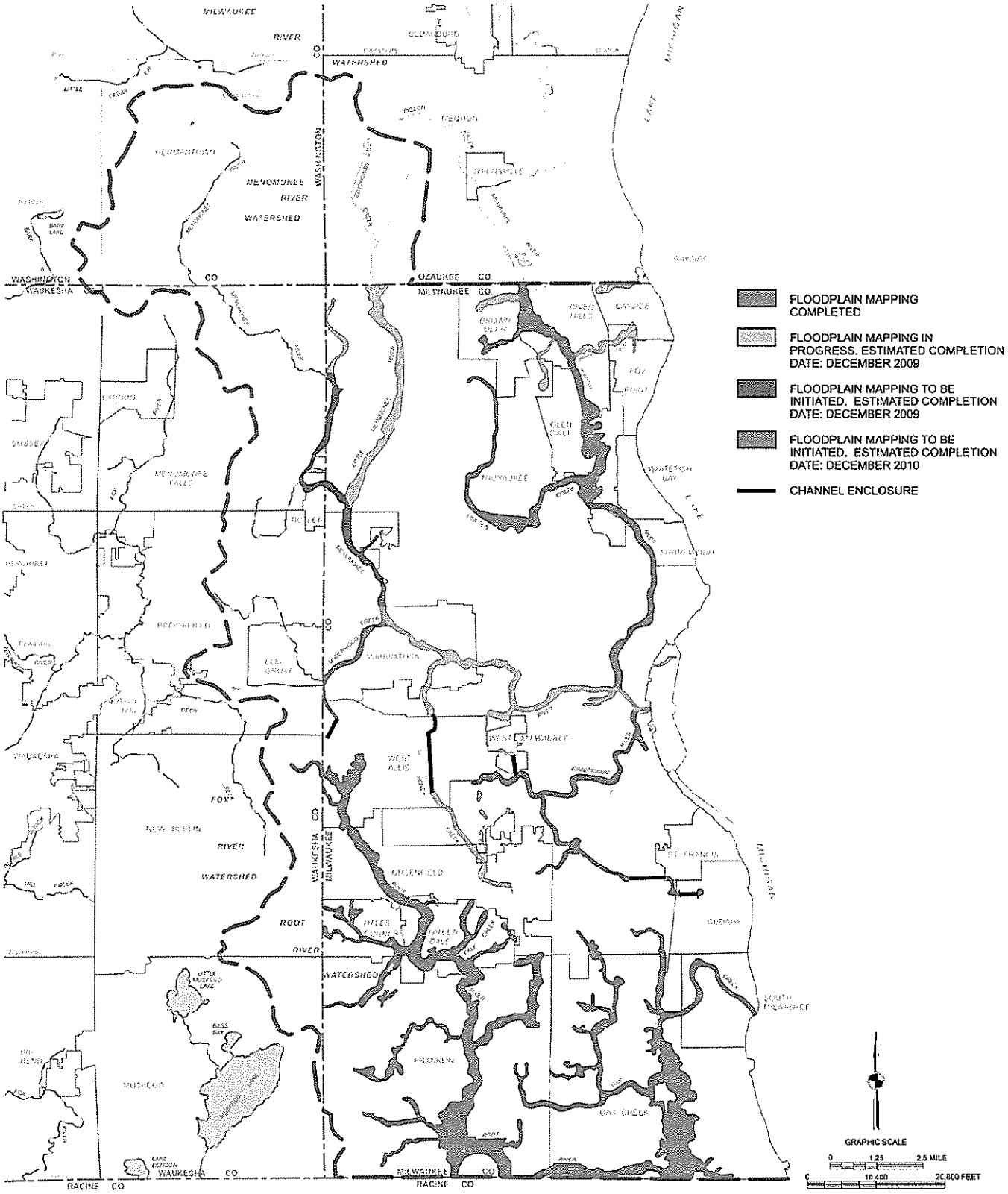
STATUS OF MCAMLIS MILWAUKEE COUNTY FLOODLAND MAPPING PROJECT: June 30, 2009



#145714 V1 - MCAMLIS MILW CTY FLPL STATUS RPT 2009-2 2009-2
KWB/MGH/pk
07/09/09

Exhibit 2

STATUS OF FLOODPLAIN MAPPING IN MILWAUKEE COUNTY: JUNE 30, 2009



Source: SEWRPC.

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MEMORANDUM

TO: MCAMLIS Steering Committee

FROM: SEWRPC Staff

DATE: July 13, 2009

SUBJECT: STATUS REPORT NO. 14 ON REGIONAL WATER SUPPLY PLAN

This memorandum sets forth the progress made on the regional water supply planning program from March 16, 2009, the date of the last report to the Steering Committee, through July 13, 2009. The preparation of the regional water supply plan represents the third, and final, element of the SEWRPC regional water supply planning program. The first two elements, comprising the development of basic groundwater inventories and the development of a groundwater simulation model for the Southeastern Wisconsin Region, were completed by 2005. These first two elements involved interagency partnership programs with the U.S. Geological Survey, the Wisconsin Geological and Natural History Survey, the University of Wisconsin-Milwaukee, the Wisconsin Department of Natural Resources, and many of the water supply utilities serving the Region. The third, and final, step in the planning program, the preparation of the water supply plan, was initiated in 2005. In addition, the 2035 regional land use plan has been completed. That land use plan was separately funded and serves as the basis for the development of the regional water supply plan.

Progress on the water supply plan during the reporting period has been focused on the continuation and documentation of special groundwater analyses, and carrying out the public outreach activities on the preliminary recommended water supply plan.

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

STUDY ORGANIZATION

As previously reported, a cooperative staffing arrangement is being used, involving the Southeastern Wisconsin Regional Planning Commission (SEWRPC) staff, consulting engineering and legal firms, and the groundwater technical staffs of the Wisconsin Geological and Natural History Survey (WGNHS), the U.S. Geological Survey (USGS), and the University of Wisconsin-Milwaukee. The contractual arrangements were previously completed through agreements with groundwater technical staffs of the State and Federal agencies concerned, with a consulting engineering firm for carrying out portions of the work, and with a legal firm for a review of water supply laws. During this reporting period, the administrative direction and internal project management of the planning program was continued.

ADVISORY COMMITTEE

On June 30, 2009, the Committee approved Technical Report No. 49, *Shallow Groundwater Sustainability Analysis Demonstration for the Southeastern Wisconsin Region*, and the portion of Chapter X of the planning report which sets forth the comments received during the public outreach activities on the preliminary recommended water supply plan and the responses to those comments. The remainder of Chapter X, which will describe the final recommended plan, is being held in abeyance pending completion of a socioeconomic analysis of the preliminary regional water supply plan. That socioeconomic analysis was requested by the SEWRPC Environmental Justice Task Force and is to be conducted by an outside consultant and separately funded. No MCAMLIS funding is involved in the preparation of the socioeconomic analysis.

PLAN REPORT PREPARATION

Nine of the 12 chapters of the planning report have now been finalized. Work was completed on the portion 10th chapter which sets forth the comments received during the public outreach activities on the preliminary recommended plan and the response to those comments. SEWRPC Technical Report No. 43, *State-of-the-Art of Water Supply Practices*, SEWRPC Technical Report No. 44, *Water Supply Law*, and SEWRPC Technical Report No. 47, *Groundwater Recharge in Southeastern Wisconsin Estimated By a GIS-Based Water-Balance Model* have been completed and published.

GROUNDWATER ANALYSES ACTIVITIES

Work was completed on a technical report which is intended to provide information on groundwater sustainability in areas served by individual private wells and work was continued on a technical report describing groundwater indices and their use in evaluating alternative water supply plans.

PUBLIC OUTREACH ACTIVITIES

During the reporting period, the public outreach activities on the preliminary recommended water supply plan were completed. Attendance at the nine public information meetings and at the informational sessions held at the Water-Wise Conference totaled 181 persons. Comments on the plan were received from 160 persons, agencies, municipalities, utilities, and organizations; including written comments received at the meetings, comments dictated to the court reporter at the meetings, and comments received via United States mail, fax, e-mail, and the comments page of the Commission website. The comments received are fully documented in the *Record of Public Comments: A Regional Water Supply Plan for Southeastern Wisconsin*. The comments have been summarized, responded to, and documented in Chapter X of the planning report and in the *Record of Public Comments: A Regional Water Supply Plan for Southeastern Wisconsin*.

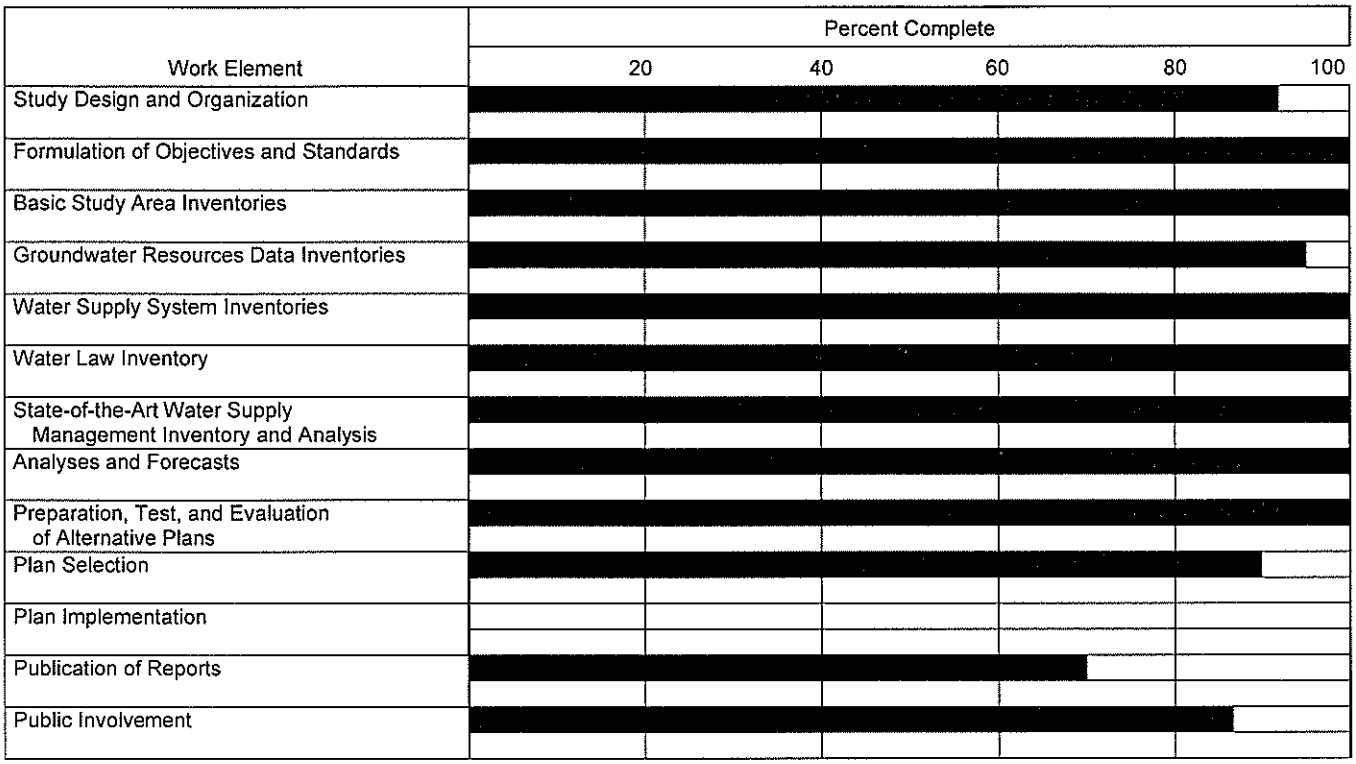
OTHER ACTIVITIES

The Commission water supply planning website has been maintained. The Advisory Committee meeting minutes and report chapters are being placed on that site. The site also includes related presentations, reports, and other pertinent information.

* * *

Exhibit 1

STATUS OF REGIONAL WATER SUPPLY PLAN: JULY 13, 2009



#145772 v1 - MCAMLIS RWSP STATUS REPORT NO. 14
KWB/RPB/pk
07/13/09

Authorized $1.00 Fee Projects

$1.00 Fee Authorized Projects as of July, 2009								
Year Authorized	**Project Description**	**Amount Authorized**	**Amount Paid 2002-2008**	**Amount Paid 2009 YTD**	**Amount Encumbered 2009**	**2009 Total Amount Paid (Encumbrances + Actual)**	**Total Amount Paid for Project (2002-2008)**	**Remaining Unpaid Balance**
2002	Large Format Scanner	$13,090.00	$13,090.00	$0.00	$0.00	$0.00	$13,090.00	$0.00
2003	Improvements to Computer System	$240,000.00	$240,000.00	$0.00	$0.00	$0.00	$240,000.00	$0.00
2003	Electronic Recording	$45,000.00	$30,550.81	$0.00	$0.00	$0.00	$30,550.81	$0.00
2003	External Hard Drive/Two SNAP Servers	$40,000.00	$40,000.00	$0.00	$0.00	$0.00	$40,000.00	$0.00
2003/2005	Digital Images; Conversion of Microfiche	$400,000.00	$400,000.00	$0.00	$0.00	$0.00	$400,000.00	$0.00
2005	Scanning A Card	$50,000.00	$50,000.00	$0.00	$0.00	$0.00	$50,000.00	$0.00
2005	Improvements to Computer System II	$450,000.00	$450,000.00	$0.00	$0.00	$0.00	$450,000.00	$0.00
2007	Improvements to Computer System III	$150,000.00	$150,000.00	$0.00	$0.00	$0.00	$150,000.00	$0.00
2008	Improvements to Computer System IV	$150,000.00	$73,358.25	$75,010.20	$1,631.55	$76,641.75	$150,000.00	$0.00
2009	Improvements to Computer System V	$120,000.00	$0.00	$0.00	$6,038.15	$6,038.15	$6,038.15	$113,961.85
Total		**$1,658,090.00**	**$1,373,640.81**	**$75,010.20**	**$7,669.70**	**$82,679.90**	**$1,529,678.96**	**$113,961.85**
Data from John La Fave, Register of Deeds as of 06/30/09								

2009 Outstanding Commitments as of 7/14/09

Organization 1923-Automated Land Information System
$4.00 Fee

Vendor Name	Description	Amount Authorized	Amount Paid - Prior Years	2009 Amount Encumbered	Amount Paid 2009 YTD	Total Amount Paid 2009 (Encumbrances + Actual)	Remaining Unpaid Balance
SOUTHEASTERN WI REGIONAL	MCAMLIS Floodland Mapping Phase 1	$ 206,000.00	$ 197,353.00	$ 8,647.00	$ -	$ 8,647.00	$ -
SOUTHEASTERN WI REGIONAL	MCAMLIS Floodland Mapping Phase 2	$ 436,000.00	$ 24,000.00	$ 412,000.00	$ -	$ 412,000.00	$ -
SOUTHEASTERN WI REGIONAL	County Surveyor (per year*)	$ 77,175.00	$ -	$ -	$ 77,175.00	$ 77,175.00	$ -
SOUTHEASTERN WI REGIONAL	Topographic Mapping Project**	$ 3,264,304.00	$ 3,212,785.00	$ 51,519.00	$ -	$ 51,519.00	$ -
CITY OF MILWAUKEE	Cadastral Address Maintenance (per year*)	$ 83,652.00	$ -	$ 83,652.00	$ -	$ 83,652.00	$ -
MILWAUKEE COUNTY	Enterprise Address System***	$ 272,000.00	$ 148,667.30	$ 64,238.76	$ 59,093.94	$ 123,332.70	$ -
MILWAUKEE COUNTY	North Shore Fire Department	$ 10,000.00	$ 2,900.00	$ -	$ 7,100.00	$ 7,100.00	$ -
Quarles & Brady	Copyright Review**	$ 10,000.00	$ -	$ -	$ 4,542.50	$ 4,542.50	$ 5,457.50
Pictometry	Oblique Imagery Technology	$ 98,590.00	$ 52,458.00	$ -	$ 46,132.00	$ 46,132.00	$ -
Latitude	Server Design	$ 35,000.00	$ 35,000.00			$ -	$ -
LiDar Project		$ 10,000.00	$ -	$ 3,900.00	$ -	$ 3,900.00	$ 6,100.00
MILWAUKEE COUNTY	Internet Access to Plats of Survey	$ 136,000.00	$ -	$ 136,000.00	$ -	$ 136,000.00	$ -
	TOTAL	**$ 4,638,721.00**	**$ 3,673,163.30**	**$ 759,956.76**	**$ 194,043.44**	**$ 954,000.20**	**$ 11,557.50**

Data from Milwaukee County Advantage System and Gary Drent, A&E as of July 14, 2009

Notes

*Per Year authorizations are reauthorized each year therefore they do not include prior year expenditures or authorizations.

** On September 30, 2008 the MCAMLIS Steering Committee authorized two additional expenditure authorities for existing projects: $7,500 for the Copyright Review project and $11,594 for the Topographical Mapping Project.

*** On March 24, 2009 the MCAMLIS Steering Committee authorized $65,000 of additional expenditure authority for the Enterprise Address System.

MCAMLIS Financial Report		AS OF 7/13/09		TOTALS
12/31/08 Balance (Balance Sheet)*	$	949,873.97	$	949,873.97
2009 Revenue Activity (YTD)**				
2009 YTD Activity $1.00		$76,771.00		
2009 YTD Activity $4.00		$304,722.00		
Other Revenue	$	745.00		
Total Revenue YTD 2009				$382,238.00
2009 Expenditure Activity (YTD) including Encumbrances				
Personnel Services		$0.00		
Services		$858,468.58		
Commodities		$1,101.50		
Capital Outlay		$19,480.00		
Crosscharges		$142,080.21		
Total Expenditure YTD 2009				($1,021,130.29)
				- - - - - - - - - - -
BALANCE AS OF 7-14-09			**$**	**310,981.68**
Remaining Projected Revenues for 2009**		$442,762.00		
Remaining Projected Expenditures for 2009***		($404,274.71)		
2009 Projected Balance				$38,487.29
				- - - - - - - - - - -
Remaining Balance as of 7/14/09 (Based on Budget/Projections)			**$**	**349,468.97**

Remaining Unrestricted Balances Based on 12-31-08 Close		
12/31/08 Balance (Balance Sheet)*	$	949,873.97
Remaining Unrestricted Balance $1.00 Fee	$	240,361.97
Remaining Unrestricted Balance $4.00 Fee	$	709,511.68

Outstanding Authorized Commitments (Non-Encumbered) 2009-Onward

$4.00 Fee

2009 YTD Project Expenditures for $4 Fee (Encumbrances + Actual)	$	(954,000.20)
Additional Authorized Expenditures	$	(11,557.50)
2009 $4 Fee Expenditures YTD	$	(136,931.69)
2009 $4 Fee Remaining Projected Expenditures***	$	(180,718.47)
Remaining Unrestricted Balance $4.00 Fee	$	709,511.68
2009 YTD Revenue for $4 Fee	$	304,722.00
2009 $4 Fee Remaining Projected Revenues**	$	355,278.00
Reserve Revenue, not to be expended	$	(70,000.00)
Remaining Unrestricted Balance $4.00 Fee	**$**	**16,303.82**
Remaining Restricted Balance $4.00 Fee	**$**	**27,861.32**

$1.00 Fee

2009 YTD Project Expenditures for $1 Fee (Encumbrances + Actual)	$	(82,679.90)
Additional Authorized Expenditures	$	(113,961.85)
2009 $1 Fee Expenditures YTD	$	(6,250.02)
2009 $1 Fee Remaining Projected Expenditures***	$	(6,250.02)
Remaining Unrestricted Balance $1.00 Fee	$	240,361.97
2009 YTD Revenue for $1 Fee	$	76,771.00
2009 $1 Fee Remaining Projected Revenues**	$	88,229.00
Reserve Revenue, not to be expended	$	(17,500.00)
Remaining Unrestricted Balance $1.00 Fee	**$**	**178,720.18**
Remaining Restricted Balance $1.00 Fee	**$**	**292,682.03**

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

* Balance includes both $1.00 and $4.00 fee revenue; Based on data provided by John La Fave and the 2007 ending operating balance, the balance sheet acount was divided between the two funds.

** Total revenues for 2009 are anticipated to be $165,000 for the $1 fee and $660,000 for the $4 fee plus $4,000 in misc. revenue. This is $50,000 less then total budgeted revenues. This is based on John La Fave's estimate that there will be approximatley 165,000 documents recorded in 2009.

*** Projected expenditures for 2009 are anticipated to be the budgeted amount for all accounts except for the 6000 accounts - which are covered in the additional authorized expenditure line. This is divided between the $1 and $4 fee based on the budgeted amounts.

Note: The amount of the reserve fund balance, as determined by the committee, is set at ten percent of current budgeted revenues. This equals $87,500 in 2009, of which $70,000 is for the $4 fee and $17,500 is for the $1 fee.

2009 Fiscal Report as of 7/13/09 - MCAMLIS						
Rev / Exp	**Revenue / Expense Name**	**Budget Amount**	**Actual Amount**	**Encumbrance**	**Net Amount**	
3237	RETAINED FEES -- $4.00 PORTION	$ 700,000.00	$ 304,722.00	$ -	$ (395,278.00)	
3238	RETAINED FEES -- $1.00 PORTION	$ 175,000.00	$ 76,771.00	$ -	$ (98,229.00)	
RECORD & FILING FEES		**$ 875,000.00**	**$ 381,493.00**	**$ -**	**$ (493,507.00)**	
4999	OTHER MISC REVENUE	$ 4,000.00	$ 745.00	$ -	$ (3,255.00)	
OTHER REVENUE		**$ 4,000.00**	**$ 745.00**	**$ -**	**$ (3,255.00)**	
Total Revenues		**$ 879,000.00**	**$ 382,238.00**	**$ -**	**$ (496,762.00)**	
5001	DIRECT LABOR CHARGED	$ -	$ -	$ -	$ -	
PERSONAL SERVICES		**$ -**	**$ -**	**$ -**	**$ -**	
6080	POSTAGE	$ 500.00	$ 74.47	$ -	$ 425.53	
6147	PROF. SERV.-DATA PROCESS	$ 35,000.00	$ 2,700.00	$ -	$ 32,300.00	
6148	PROF. SERV-RECURRING OPER	$ 1,041,605.00	$ 282,028.73	$ 557,002.26	$ 202,574.01	
6637	R/M COMPUTER EQUIP	$ 12,150.00	$ 12,500.00	$ -	$ (350.00)	
6812	MEETINGS OTHER AUTH TRAVL	$ 6,000.00	$ 4,163.12	$ -	$ 1,836.88	
6999	SUNDRY SERVICES	$ -	$ -	$ -	$ -	
SERVICES		**$ 1,095,255.00**	**$ 301,466.32**	**$ 557,002.26**	**$ 236,786.42**	
7915	COMPUTER SOFTWARE	$ 6,102.00	$ 1,101.50	$ -	$ 5,000.50	
COMMODITIES		**$ 6,102.00**	**$ 1,101.50**	**$ -**	**$ 5,000.50**	
8558	COMPUTER EQUIPMENT-REPL>$500	$ 19,480.00	$ -	$ 19,480.00	$ -	
CAPITAL OUTLAYS		**$ 19,480.00**	**$ -**	**$ 19,480.00**	**$ -**	
9706	PRO SERV DIV SERVICES	$ 279,568.00	$ 129,580.17	$ -	$ 149,987.83	
9742	DAS SERVICES	$ 25,000.00	$ 12,500.04	$ -	$ 12,499.96	
CROSSCHARGES		**$ 304,568.00**	**$ 142,080.21**	**$ -**	**$ 162,487.79**	
Total Expenses		**$ 1,425,405.00**	**$ 444,648.03**	**$ 576,482.26**	**$ 404,274.71**	
Grand Totals		**$ (546,405.00)**	**$ (62,410.03)**	**$ (576,482.26)**	**$ (92,487.29)**	