1. November 10, 2020 Land Information Advisory Council Meeting Agenda (PDF)

   Documents:

   11-10-20 LIAC AGENDA (AMENDED).PDF

2. November 12, 2019 Land Information Advisory Council Meeting Packet (PDF)

   Documents:

   DRAFT NOVEMBER 12 2019 LIAC MINUTES.PDF

Land Information Advisory Council
MEETING NOTICE
Tuesday, November 10, 2020 – 10:00 a.m.

County Board Room 114
Walworth County Government Center
100 W. Walworth St., Elkhorn, Wisconsin

John Orr, Chair – Michael Cotter, Vice-Chair
Nancy Russell, Valerie Etzel, Carrie Virrueta,
Dale Drayna, Jerry Kroupa, John Murphy, Todd Neumann,
Rob Merry, Sue Finster, Joe Kroll, Shannon Haydin

(Posted in compliance with Sec. 19.84, Wis. Stats.)

It is possible that a quorum of the county board or any
of its committees could be in attendance at this meeting.

A G E N D A

Note: all agenda items are subject to discussion and/or action.

1. Call to order
2. Roll call
3. Agenda withdrawals, if any
4. Agenda approval
5. Approval of minutes, Nov 12, 2019 Land Information Advisory Council meeting (enclosure pp. 1 – 3)
6. Public comment period
7. Introduction of New Member replacing Captain Green and Donna Pruess
   a) Captain Todd Neumann
   b) Register of Deeds Carrie Virrueta
8. Strategic Initiative Grant
   a) Grant Projects
      i. Hard Copy Maps Tool Upgrade
      ii. HHS Water Well DNR Reporting
      iii. 2020 Orthophotography
   b) 2021 Grant Application
      i. Grant Amount
      ii. State Parcel Data
9. Current Projects
   a) GIS Environment Upgrade - Update
   b) 2020 3" Orthophotography Project
      i. Status
      ii. Delivery Date
   c) COVID 19 Projects/Demo

     i. Portal for ArcGIS and ArcGIS Online
     ii. Data Dashboards
     iii. Hub Information Site
     iv. Key Indicators Dashboard
     v. COVID Case Data Entry Form
     vi. Municipality Case Dashboard
     vii. School District Case Dashboard
     viii. Staff Data Entry
  d) Walworth County Address Application Online
10. Future Projects
  a) Sheriff's Department
     i. NG911 Pilot Data Conversion Project
     ii. Guardian Map Update
     iii. Prophoenix Integration with County GIS
  b) US Census Data Review and Integration
     i. Re-Districting Project
  c) Election Results Data Layer Updates
  d) Project Suggestions
11. Fund Balances - $661,505 thru September
12. Reports/announcements by Chairperson
13. Set/confirm next meeting date and time – May 11, 2021 at 10:00am
14. Adjourn

Submitted by: John Orr, Chairperson

Posted: November 3, 2020

The meeting was called to order by Chair John Orr at 10:02 a.m.

Roll call was conducted. The following members were present: Chair John Orr, Director of IT; Vice Chair Michael Cotter, Deputy Corporation Counsel/Director of LURM; Walworth County Realtor Jerry Kroupa; Land Information Officer Dale Drayna; County Surveyor Rob Merry; Captain of Communications Jamie Green; County Board Chair Nancy Russell; Deputy Director of LURM/County Conservationist Shannon Haydin; and County Treasurer Valerie Etzel. Register of Deeds Donna Pruess, Property Lister Sue Finster, County Engineer Joe Kroll and Elkhorn Utilities Director John Murphy were absent. A quorum was declared.

Others in Attendance: GIS Specialist Ben Hostetler

On motion by Vice Chair Cotter, seconded by County Board Chair Russell, the agenda was approved by voice vote.

On motion by County Board Chair Russell, seconded by Vice Chair Cotter, the May 14, 2019 meeting minutes were approved by voice vote.

Public Comment – There was none.

Strategic Initiative Grant
- Public Land Survey System (PLSS) Upgrade (SEWRPC)
     -PLSS Vertical Conversion
Land Information Officer Dale Drayna reported the conversion involved upgrading to North American Datum (NAD) to '83. Both the vertical and horizontal conversions are completed, and staff is waiting for the report from Southeastern Wisconsin Regional Planning Commission (SEWRPC). County Surveyor Rob Merry said all corners have been published with the '88 elevations, and each corner has a vertical difference calculation determined between the two versions to use as reference. Drayna said the State Cartographer's Office has approved the conversion, and it is available for public use. Merry said most of the counties in the State have already completed the upgrade. All corners within the State are published on their website and all referenced to NAD '83.

- 2020 Grant Application
     -Grant amount
Drayna said the Strategic Initiative grant funding has decreased from $50,000 to $40,000. The 2020 application is due by the end of the year. There is also an additional $1,000 training grant.

     -State Parcel Data
The data is due by March 31, 2020. Drayna reported Walworth County has a clean data set.

Current Projects
- GIS Environment Upgrade
Drayna said the GIS software is being updated and servers replaced, which will allow more photos and storage space. Most of the data has already been converted to NAD '83, and the map services have been recreated in the new environment. Chair Orr said the upgrade should provide significant improvement in search speed, and said he needs updates from Land Use and Resource Management (LURM) on lapse time

and areas that need enhancing. Drayna said he hopes the new system will be live by the end of the year, beginning with the pubic-facing view.

- 2020 3" Orthophotography Project
  -Cost
  -Timeline
  -Data Delivery

Drayna said they have a contract to obtain the 3" photos, and all seven counties in the region are transitioning to the 3". Merry displayed a 4 Band map, which allows identifying impervious and non-impervious surfaces more clearly. He also showed the striking difference between the 6" and 3" photos. The 3" photos show storm sewers, manholes and utility infrastructure, which will improve asset management. Merry explained other uses that could be derived from the improved photos. The flights for the 3" project will begin in April 2020, weather permitting. Five counties will be flown concurrently for overlap. Drayna commented how much technology has improved; ten years ago, the County was using 10" Orthophotography. The project will cost $69,148, and Strategic Initiative funds will be used to offset some of the costs, which will be primarily funded from Land Modernization monies. Vice Chair Cotter asked how frequent the flights will be done in the future, and Merry stated the State requires they be conducted every five years; however, the regional consensus is to authorize flights every two to three years.

Future Projects
- Sheriff's Department

Chair Orr said Drayna and Sheriff's Office Communications Captain Jamie Green have been working together to coordinate the projects.

    -Guardian Map Update

Drayna said the data for the 911 base map for dispatchers has been created, and they can now start updating the maps and incorporating other layers into the base map.

    -ProPhoenix Integration with County GIS

Captain Green said there have been issues with integrating ProPhoenix. ProPhoenix initially used Google maps, and as the prices kept increasing, ProPhoenix contracted with Here Maps, which are not as accurate. Green stated as County GIS maps are being used for the 911 base, he feels the same system should be used to ensure uniformity and synchronization. Chair Orr said they would schedule a meeting next week to discuss the best options and move forward to complete the project.

- LURM Drone Purchase

Chair Orr reported LURM has had maintenance issues with their drone, and funds will be transferred for the purchase of a new drone for the Department. Deputy Director of LURM/County Conservationist Shannon Haydin said the drone's propeller is cracking, and the equipment is at the end of its life span. Upgrading the drone will allow for more mapping applications, and Windows 10 is required for application. When the new drone is acquired, it will take time to process imagery and program software. Haydin reported the drone has proved invaluable in inspecting gravel pits. Vice Chair Cotter said he and County Treasurer Val Etzel used it to view foreclosure properties. Haydin said LURM needs another licensed drone pilot. The certification process is time consuming and involves familiarity with aeronautical maps and airspace knowledge. The exam fee costs approximately $300.

- Project Suggestions

Drayna reported Public Works is adding more data to the GIS, including highway inventory and information on the County parks. Chair Orr asked for requests from departments for potential 2021 projects. Haydin asked if it is feasible to engage some interns from UW-Whitewater to assist in locating septic systems and water wells countywide. Chair Orr said he would contact UW-Whitewater to see what services they would be capable of providing. Haydin commented nearly a third of the septic systems in the county predate permitting; it would be helpful to identify and document locations of these systems to avoid having to send staff or a surveyor to properties to do the locations manually. Discussion ensued on the feasibility of using the drone to perform a shoreland inventory on County lakes. Merry said he would contact companies with quad helicopters who might be willing to undertake the project.

LiDAR Demo

GIS Specialist Ben Hostetler gave an overview of the work done on development of the derivatives of the LiDAR data. He showed the digital elevation model, the shaded relief topographical map, digital surface model, and a three-dimensional view. He demonstrated tools that can be used with each model to locate watersheds, landfills, perform glacial and anthropology studies, etc. Haydin suggested her staff might benefit from additional training on the new capabilities.

Fund Balances - $587,273 through September 2019

Chair Orr noted the fund balance is considerable, and again encouraged departments to engage in proactive planning for future projects.

Reports/announcements by Chair – There were none.

Set/confirm next meeting date and time – May 12, 2020 at 10:00 a.m.

Adjournment
On motion by County Treasurer Etzel, seconded by County Board Chair Russell, Chair Orr adjourned the meeting at 11:16 a.m.

Submitted by Becky Bechtel, Administrative Assistant. Meeting minutes are not considered final until approved by the committee at the next regularly scheduled meeting.