

Lake County Illinois

*Central Permit Facility
500 W Winchester Road
Libertyville, Illinois 60048*



Agenda Report - Final

Wednesday, July 31, 2019

8:30 AM

2nd Floor, Main Conference Room

Public Works, Planning & Transportation Committee

1. Call to Order
2. Pledge of Allegiance
3. Addenda to the Agenda
4. Public Comment
5. Chair's Remarks
6. Old Business
7. New Business

CONSENT AGENDA (Items 7.1 - 7.13)

Approval of Minutes

7.1 [19-1108](#)

Minutes from June 5, 2019.

Attachments: [PWPT 6.5.19 Minutes - Final](#)

7.2 [19-1256](#)

Minutes from June 26, 2019.

Attachments: [PWPT 6.26.19 Minutes - Final.pdf](#)

DIVISION OF TRANSPORTATION

7.3 [19-1223](#)

Ordinance providing for the establishment of an altered speed zone for 25 miles per hour (MPH), currently unposted 30 MPH, on Sunnyview Road, Fairhill Road, Bell Lane and Greenacres Drive located in Libertyville Township.

- The speed study was requested by the Libertyville Township Highway Commissioner.
- The necessary speed studies have been undertaken and an ordinance is required to establish speed zones.

7.4 [19-1212](#)

Joint resolution authorizing a contract with Path Construction Company, Arlington Heights, Illinois, in the amount of \$117,140 for replacing bridge expansion joints on Lake County maintained bridges, appropriating \$141,000 of County Bridge funds.

- This project also includes miscellaneous concrete repair work on the Washington Street and Deerfield Road bridges.
- A total of four bids were received, ranging from \$117,140 to \$224,695, and the lowest responsible bidder is Path Construction Company in the amount of \$117,140.
- This improvement is included in the highway improvement program and is

designated as Section 19-00999-63-BR.

Attachments: [19-1212 Bid Tab, 2019 Expansion Joint Replacement](#)
[19-1212 Vendor Disclosure, Path Construction](#)

7.5 **19-1214**

Joint resolution authorizing a contract with Campanella and Sons, Inc., Wadsworth, Illinois, in the amount of \$390,892.51 for culvert repair and guardrail replacement on Kilbourne Road, and appropriating \$470,000 of County Bridge Tax funds.

- A culvert installation on Kilbourne Road needs repair, and the existing guardrail at the culvert needs replacement.
- There was a public call for bids and a total of two bids were received, ranging from \$390,892.51 to \$574,108.71. The lowest responsible bidder is Campanella and Sons, Inc. in the amount of \$390,892.51.
- This replacement is included in the highway improvement program with construction planned in 2019 and is designated as Section 18-00094-03-BR.

Attachments: [19-1214 Bid Tab, Kilbourne Road Culvert Repair](#)
[19-1214 Vendor Disclosure, Campanella and Sons](#)

7.6 **19-1215**

Joint resolution authorizing a contract with Peter Baker and Son Company, Lake Bluff, Illinois, in the amount of \$727,019.55 for the resurfacing of the Lake County Division of Transportation's (LCDOT) parking lot.

- One bid was received in the amount of \$727,019.55 and the lowest responsible bidder is Peter Baker and Son Company in the amount of \$727,019.55.
- An engineer's estimate is prepared for each project prior to bidding based on recently competitively bid projects. Bid prices are then compared against the engineer's estimate to ensure fair and competitive pricing. The bid price for this project is 16.32 percent below the engineer's estimate.
- This improvement has been identified in the County's pavement management system, is included in the County Capital Improvement Program (CCIP), and is designated as Section 18-00214-25-MG.

Attachments: [19-1215 Bid Tab, LCDOT Parking Lot Improvements](#)
[19-1215 Vendor Disclosure, Peter Baker](#)
[LCDOT Parking Lot Plan and Strategies.pdf](#)

7.7 **19-1216**

Joint resolution authorizing a contract with H and H Electric Company, Franklin Park, Illinois, in the amount of \$284,578.70 for upgrades and expansion of the Intelligent Transportation System (ITS) PASSAGE Network and appropriating \$342,000 of ¼% Sales Tax for Transportation funds.

- This work will connect new traffic signal controllers and expand the ITS

communication network, including the installation of full-actuated controllers and layer II switches.

- A total of two bids were received, ranging from \$284,578.70 to \$302,534 and the lowest responsible bidder is H and H Electric Company in the amount of \$284,578.70.
- This improvement is included in the highway improvement program and is designated as Section 19-00999-64-TL.

Attachments: [19-1216 Bid Tab, Signal Controller Upgrade](#)

[19-1216 Vendor Disclosure, H&H Electric](#)

7.8 [19-1221](#)

Joint resolution appropriating \$38,800 (\$9,700 annually) of Matching Tax funds for four years of maintenance service for the Lake County Division of Transportation (LCDOT) Sign Inventory System.

- LCDOT purchased a new Sign Inventory System from 3M Company, St. Paul, Minnesota, in 2016.
- Year one maintenance was included in the original software purchase price and the agreement with 3M Company provides a total of five years of maintenance.
- This maintenance cost is included in our highway improvement program and is designated as Section 19-00000-20-GM.

Attachments: [19-1221 Sign Inventory System Agreement](#)

[19-1221 Sign Inventory System Purchase Order with Additional Tablet](#)

7.9 [19-1222](#)

Joint resolution appropriating \$30,000 of ¼% Sales Tax for Transportation funds for cellular service to communicate with various Lake County Division of Transportation (LCDOT) field assets, including traffic signals, cameras, pavement sensors, and snow and ice equipment and integration to Lake County PASSAGE.

- Lake County's PASSAGE System gathers data from traffic signals, counters, pavement sensors, cameras, and snowplows to manage traffic and provide the public with this information to make an informed decision when traveling.
- This project is included in the highway improvement program and is designated as Section 19-00000-18-GM.

7.10 [19-1225](#)

Joint resolution appropriating \$760,100 of Motor Fuel Tax funds for maintaining streets and highways, including utility services, under the applicable Illinois Highway Code, from December 1, 2019, to November 30, 2020, and \$200,000 of Matching Tax funds.

- In order to perform routine and necessary highway maintenance, the Division of Transportation must purchase Patrol One general maintenance materials and services.

- Patrol One general maintenance materials and services may include, but not be limited to, supplies such as paint, signposts, shoulder aggregate, and deicing materials, as well as utility services and repairs.
- This project is included in the highway improvement program, and is designated as Section 20-00000-00-GM.

7.11 [19-1226](#)

Joint resolution appropriating \$75,000 of County Bridge Tax funds for fiscal year (FY) 2019 engineering services, water quality monitoring services, and materials needed to meet the requirements of the Illinois Environmental Protection Agency (IEPA) General National Pollutant Discharge Elimination System (NPDES) ILR40 Permit for Lake County.

- Lake County is a municipal separate storm sewer system (MS4) community that is required to comply with the IEPA General NPDES ILR40 Permit that became effective on March 1, 2016.
- Permit requirements include new program enhancements, implementation of Best Management Practices, and water quality monitoring activities that will require the use of engineering and miscellaneous services, contract services, and materials, and is designated as Section 19-00000-19-GM.

7.12 [19-1227](#)

Joint resolution authorizing an agreement for professional engineering services with Infrastructure Management Services (IMS), Tempe, Arizona, at a maximum cost of \$80,000, for the annual pavement testing services, and associated components, appropriating \$100,000 of Matching Tax funds.

- The County approved an agreement for professional engineering services with IMS in 1986 to implement a pavement management system.
- IMS was the original supplier of said database within the County's Automated Repair Guidance System (Argus).
- The pavement data in the system is updated on a yearly basis; it utilizes information collected and uses dynamic load testing and laser testing procedures.
- Approximately 25 percent of the county highway system is retested each year.
- Information from the pavement management system is used to generate recommended resurfacing projects for the next five years.
- In accordance with the Local Government Professional Services Selection Act, the recommended firm is IMS at a cost of services of \$80,000.
- This project is included in the highway improvement program and is designated as Section 19-00219-00-ES.

Attachments: [19-1227 Pavement Management System Consultant Agreement Draft](#)

[19-1227 Vendor Disclosure, IMS](#)

7.13 [19-1228](#)

Joint resolution authorizing a contract with Derive, Sanford, Florida, for the purchase of idle reduction technology for Lake County in the amount of \$34,713.

- During Lake County's Fiscal Year (FY) 2019 budget process, a New Program Request (NPR) was approved for the purchase of idle reduction technology.
- Idle reduction software is being installed on 87 county fleet vehicles in FY2019, which will result in an estimated six percent reduction in fuel usage and carbon emissions per vehicle. This will translate to an estimated \$60,000 per year savings in fuel costs based on current gasoline prices.
- In FY2020 and beyond, idle reduction software will be a standard upgrade for all applicable new vehicle purchases.
- Lake County's Purchasing Department identified a cooperative purchasing contract with Derive, through Sourcwell, to procure the idle reduction technology at a contract price that was competitively solicited and awarded.
- Pursuant to Article 10-101 of the Lake County Purchasing Ordinance, Cooperative Purchasing, Lake County may participate in a cooperative purchasing agreement for the procurement of goods with one or more public procurement units in accordance with an agreement entered into between the participants.

Attachments: [19-1228 Idle Reduction 2019 NJPA PRICE SCHEDULE v7](#)
[19-1228 Vendor Disclosure Derive](#)

REGULAR AGENDA

DIVISION OF TRANSPORTATION

7.14 [19-1213](#)

Joint resolution authorizing a contract with Peter Baker and Son Company, Lake Bluff, Illinois, in the amount of \$3,338,377.61, for the resurfacing of Butterfield Road, from Illinois Route 176 to US Route 45, which will be improved under the Illinois Highway Code for a total of 3.68 miles, and appropriating \$4,007,000 of Motor Fuel Tax funds.

- Butterfield Road, from Illinois Route 176 to US Route 45, needs resurfacing.
- A total of two bids were received, ranging from \$3,338,377.61 to \$4,199,980.62, and the lowest responsible bidder is Peter Baker and Son Company, Lake Bluff, Illinois, with a contract amount of \$3,338,377.61.
- This resurfacing improvement has been identified within the County's pavement management system, is included in the highway improvement program, and is designated as Section 18-00137-17-RS.

Attachments: [19-1213 Bid Tab, Butterfield Road Resurfacing](#)
[19-1213 Vendor Disclosure, Peter Baker](#)

7.15 [19-1220](#)

Joint resolution authorizing an intergovernmental agreement with the Chicago Metropolitan Agency for Planning (CMAP) for the receipt of \$170,332.95 in funding to provide transportation planning staff assistance for the Lake County Council of Mayors (LCCOM).

- Planning liaison funds are distributed yearly from the Federal Highway Administration to CMAP through the Illinois Department of Transportation.
- These funds help support transportation planning provided by the Lake County Division of Transportation's (LCDOT) staff and the LCCOM.
- Among other activities, LCDOT staff will continue to be the communication link between CMAP and the LCCOM; regularly attend all CMAP boards, committees, and other relevant meetings; support the development and implementation of CMAP programs such as the Local Technical Assistance program; and provide technical and administrative support for the LCCOM related to the development, monitoring, and management of its federally funded transportation projects.
- In State Fiscal Year 2020, which begins July 1, 2019, the allocation to LCDOT will be \$170,332.95 to cover the workload that CMAP describes in its agreement.

Attachments: [19-1220 2020 CMAP Planning Funding Agreement Draft](#)

7.16 [19-1224](#)

Joint resolution authorizing the execution of an intergovernmental agreement with the Illinois Department of Commerce and Economic Opportunity (DCEO) for the receipt of \$200,000 in grant funding from DCEO to interconnect six traffic signals to Lake County PASSAGE along the Illinois Route 59 corridor in the southwest portion of Lake County.

- These funds will be used to provide connection to six traffic signals and Pan Tilt Zoom (PTZ) cameras to Lake County PASSAGE along the Illinois Route 59 corridor in the southwest portion of Lake County.
- The DCEO will provide \$200,000 for the design and construction of traffic signal controller upgrades, communication infrastructure, and PTZ camera installations.
- The DCEO grant was secured through Illinois State Senator McConchie's office.

Attachments: [19-1224 Grant Award Agreement](#)

PUBLIC WORKS

7.17 [19-1242](#)

Joint resolution authorizing an agreement with Gewalt Hamilton Associates, Inc., Vernon Hills, Illinois, for engineering services for sewer facilities analysis, design and construction oversight.

- Lake County Public Works is seeking engineering services for sewer facilities analysis, design and construction oversight. This master agreement, sourced through a full statement of Interest (SOI) competitive process, will allow individual task orders to be issued up to a maximum cumulative value of \$500,000 for a given year. The term of the contract will be two years with three one-year renewal options to allow for future projects with services based on approved contracted rates.
- An initial project has been identified: Replacement of the Midland Force Main. In accordance with the Local Government Professional Services Selection Act, the recommended firm is Gewalt Hamilton Associates, Inc.

- The Lake County Purchasing received and evaluated Statements of Interests from 16 professional firms of which four were short-listed.
- The initial contract with Gewalt Hamilton Associates, Inc. will include preliminary engineering design services and engineering design services based on contracted hourly rates in an estimated amount of \$173,470.
- This service was included and budgeted as part of the Fiscal Year 2019 Capital Improvement Program.

Attachments: [19-1242 Gewalt Scoring Matrix.pdf](#)
[19-1242 Gewalt Award Information.pdf](#)
[19-1242 Gewalt Master Agreement 2019-07-19.pdf](#)
[19-1242 Gewalt Vendor Disclosure.pdf](#)

7.18 **19-1243**

Joint resolution authorizing an agreement with RHMG Engineers, Inc., Mundelein, Illinois, for engineering services for water facilities analysis, design and construction oversight.

- Lake County Public Works is seeking engineering services for water facilities analysis, design and construction oversight. This master agreement, sourced through a full statement of Interest (SOI) competitive process, will allow individual task orders to be issued up to a maximum cumulative value of \$500,000 for a given year. The term of the contract will be two years with three one-year renewal options to allow for future projects with services based on approved contract rates.
- An initial project has been identified: Oak Terrace Water System Evaluation of Repair Alternatives and will include preliminary engineering design services and engineering design services based on contracted hourly rates in an estimated amount of \$39,319.
- The Lake County Purchasing Department received and evaluated Statements of Interests from 16 professional firms of which four were short-listed.
- In accordance with the Local Government Professional Services Selection Act, the recommended firm is RHMG Engineers, Inc.
- This service was included and budgeted as part of the Fiscal Year 2019 Capital Improvement Program.

Attachments: [19-1243 RHMG Scoring Matrix.pdf](#)
[19-1243 RHMG Award Information.pdf](#)
[19-1243 RHMG Master Agreement 2019-07-18.pdf](#)
[19-1243 RHMG Vendor Disclosure.pdf](#)

7.19 **19-1244**

Ordinance approving an agreement with the Central Lake County Joint Action Water Agency (CLCJAWA) and establishing the payment plan for \$8,030,400 in

connection fees for the Grandwood Park and Fox Lake Hills water system customers to be paid over a 30-year period.

- The County operates the Grandwood Park water system with 2,237 customers and the Fox Lake Hills water system with 631 customers. Both systems switched from wells to Lake Michigan water supplied by CLCJAWA in early 2019.
- The direct cost of constructing the new CLCJAWA distribution system is funded through the 20-year Special Service Area 16 tax levy.
- A separate connection fee of \$2,800 per property equivalent is also required. The money will be collected through a surcharge fee for customers in these two systems. The collected funds will be paid to CLCJAWA annually over a 30-year period with no interest applied.
- The ordinance establishes the annual repayment plan to CLCJAWA. The annual payments are graduated over the 30-year period to allow the option to ease into the surcharge program. However, staff recommends establishing a constant customer rate for the 30-year period to be consistent with how other surcharge fees are collected and to avoid confusion during future rate periods.
- Rate options have been established and will be presented.

Attachments: [19-1244 Grandwood Park Fox Lake Hills CLCJAWA Connection Fee Agr](#)

7.20 [19-1245](#)

Presentation outlining progress on the proposed water and sewer ordinances.

- The ordinance consolidates several existing documents, codifies established practice and operation, and incorporates new conditions and Illinois Environmental Protection Agency (IEPA) mandated programs.
- Staff, along with the County's consultant Trotter and Associates, seeks feedback and committee discussion on the proposed ordinance changes.
- No action is required at this time.

Attachments: [19-1245 LCPW Ordinance Update.pdf](#)

7.21 [19-1246](#)

Presentation outlining the progress of the water and sewer rate and connection fees study.

- Staff has continued to work with professional consultants Burns and McDonnell to determine appropriate connection fees.
- Analysis indicates that in order to cover the cost of future growth across the County's water and sewer systems, it is necessary to increase connection fees.
- Staff has worked to develop two options for the Committee to consider. Option One: Immediate implementation of the maximum recommended charge and Option Two: Phased implementation reflecting 10 percent per year until maximum recommended fee is reached.
- Staff is requesting final direction on which connection fee option to implement.
- Based on direction from the committee, staff will propose a new Rate Ordinance (Chapter 51) establishing all water and sewer user rates and connection fees for

the County's water and sewer systems.

Attachments: [19-1246 Rate and Connection Fee Update.pdf](#)

8. **Executive Session**
9. **County Administrator's Report**
10. **Members' Remarks**
11. **Adjournment**

Next Meeting: August 7, 2019