



Dakota County

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Title: Authorization To Execute Agreement With City Of Lakeville For Traffic Signal Installations At CSAH 31 (Pilot Knob) And 179th Street Intersection And At CSAH 23 (Cedar Avenue) And 185th Street Intersection

Sponsors: Transportation

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Attachments: 1. CSAH 31 & 179th Location Map, 2. CSAH 23 & 185th Location Map, 3. 31-110 Financial Summary, 4. 60-28 Financial Summary

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DEPARTMENT: Transportation

FILE TYPE: Consent Action

TITLE

Authorization To Execute Agreement With City Of Lakeville For Traffic Signal Installations At CSAH 31 (Pilot Knob) And 179th Street Intersection And At CSAH 23 (Cedar Avenue) And 185th Street Intersection

PURPOSE/ACTION REQUESTED

- Authorize intersection traffic control change to traffic signal at County State Aid Highway (CSAH) 31 (Pilot Knob Road) and 179th Street.
- Authorize intersection traffic control change to traffic signal at County State Aid Highway (CSAH) 23 (Cedar Avenue) and 185th Street.
- Authorize execution of joint powers agreement (JPA) with the City of Lakeville (City) for the installation of and to define cost, operation, utility, and maintenance responsibilities of traffic signal systems at the CSAH 31 (Pilot Knob Road) and 179th Street intersection and at the CSAH 23 (Cedar Avenue) and 185th Street intersection.

SUMMARY

To promote a safe and efficient transportation system throughout the County, Dakota County and the City are partnering to install new traffic signal systems at the intersection of CSAH 31 (Pilot Knob) and 179th Street (see Attachment: CSAH 31 & 179th Location Map) and the intersection of CSAH 23 (Cedar Avenue) and 185th Street (Attachment: CSAH 23 & 185th Location Map).

The CSAH 31 and 179th Street intersection is currently a two-way stop control with vehicles on 179th

required to stop for CSAH 31 traffic. Currently, CSAH 9 follows the Dodd Boulevard alignment between CSAH 23 and CSAH 31. The County will be constructing a realignment of CSAH 9 onto the 179th Street alignment in 2023. This realignment will shift traffic patterns, increasing traffic volumes on 179th Street at CSAH 31.

Installation of a traffic signal at CSAH 31 and 179th Street is justified and the appropriate traffic control for the intersection in consideration of the additional traffic associated with the new CSAH 9 alignment, future designation of 179th Street as CSAH 9 and overall operations. The County is the lead agency for the project to install the new County-owned traffic signal system at CSAH 31 and 179th Street. Installation of the signal is scheduled to occur in 2023 under County Project (CP) 31-110.

County State Aid Highway 23 and 185th Street is currently a t-intersection with side street stop control, with vehicles on 185th required to stop for CSAH 23 traffic. A missing segment of 185th Street will be constructed in 2023 under CP 60-28, which will extend CSAH 60 to CSAH 23 along the 185th Street alignment. The extension of CSAH 60 will shift traffic patterns, increasing traffic volumes on 185th Street at CSAH 23.

Installation of a traffic signal at CSAH 23 and 185th Street is justified and the appropriate traffic control for the intersection in consideration of the additional traffic associated with the extension of CSAH 60, designation of 185th Street as CSAH 60 and overall operations. Installation of the signal is scheduled to occur in 2023 as part of CP 60-28. The City is the lead agency for the project to install the new County-owned traffic signal system at CSAH 23 and 185th Street.

A JPA with the City is necessary to define costs, operation, and maintenance responsibilities at both intersections. The cost participation for design, engineering, and construction of the two new traffic signals will be in accordance with the adopted Cost Share Policy (Policy F.4 Traffic Signals). The County's cost share is 55 percent, and the City's cost share is 45 percent. The cost participation for power and maintenance will be in accordance with the adopted Cost Share Policy (Policy F.17 Traffic Signal and Street Lighting Power Costs and Maintenance Responsibilities). The County's cost share is 75 percent, and the City's cost share is 25 percent for power costs of the traffic signal systems and attached street lighting. The County will operate and maintain the signal systems, timing, and operation. The City will be responsible for streetlight maintenance and painting of the signal systems.

RECOMMENDATION

Staff recommends a change in traffic control to traffic signals at the CSAH 31 and 179th Street and the CSAH 23 and 185th Street intersections. Staff further recommends entering into a JPA with the City of Lakeville to define cost, operation, utility, and maintenance responsibilities for the new traffic signal systems at these two locations.

EXPLANATION OF FISCAL/FTE IMPACTS

The 2023 Transportation Capital Improvement Program (CIP) Draft Budget contains a total budget of \$650,000 for construction of CP 31-110 (see Attachment: CP 31-110 Financial Summary) and a total budget of \$4,823,500 for construction of CP 60-28 (see Attachment: CP 60-28 Financial Summary). Sufficient funds are included for costs associated with the installation of the traffic signal systems. Sufficient funds are included in the 2023 Transportation Department's draft operating budget for County maintenance and operation of the traffic signal systems following installation.

- None Current budget Other
 Amendment Requested New FTE(s) requested

RESOLUTION

WHEREAS, to provide a safe and efficient transportation system, Dakota County (County) is partnering with the City of Lakeville (City) for projects to install new traffic signal systems at the County State Aid Highway (CSAH) 31 (Pilot Knob) and 179th Street and the CSAH 23 (Cedar Avenue) and 185th Street intersections; and

WHEREAS, installation of the traffic control signal system is justified and the appropriate traffic control for the intersection of CSAH 31 and 179th Street in consideration of additional traffic associated with a new CSAH 9 alignment, future designation of 179th Street as CSAH 9 and overall operations; and

WHEREAS, installation of the traffic control signal system is justified and the appropriate traffic control for the intersection of CSAH 23 and 185th Street in consideration of the additional traffic associated with the extension of CSAH 60, designation of 185th Street as CSAH 60 and overall operations; and

WHEREAS, the County is the lead agency for the project to install the signal system at CSAH 31 and 179th Street; and

WHEREAS, the City is the lead agency for the project to install the signal system at CSAH 23 and 185th Street; and

WHEREAS, cost participation for design, engineering, and construction of the two new traffic signals will be in accordance with the adopted Cost Share Policy (Policy F.4 Traffic Signals), such that the County's cost share is 55 percent and the City's cost share is 45 percent; and

WHEREAS, cost participation for power and maintenance will be in accordance with Cost Share Policy (Policy F.17 Traffic Signal and Street Lighting Power Costs and Maintenance Responsibilities), such that the County cost share is 75 percent and the City cost share is 25 percent for power costs of the traffic signal and attached street lighting; and

WHEREAS, the County will operate and maintain the traffic signal systems, timing, and operation and the City will be responsible for streetlight maintenance and painting of the signal systems; and

WHEREAS, a joint powers agreement with the City of Lakeville is needed for signal installation and to define operation and maintenance costs and responsibilities.

NOW, THEREFORE, BE IT RESOLVED, That the Dakota County Board of Commissioners hereby authorizes the installation of a traffic control signal system at the intersection of County State Aid Highway (CSAH) 31 (Pilot Knob) and 179th Street and also at the intersection of CSAH 23 (Cedar Avenue) and 185th Street, in the City of Lakeville in accordance with Dakota County Transportation Plan (Policy M.9); and

BE IT FURTHER RESOLVED, That the Dakota County Board of Commissioners hereby authorizes the Physical Development Director to execute an agreement with the City of Lakeville for the installation, operation and maintenance of traffic signal systems at the intersection of CSAH 31 (Pilot Knob Road) and 179th Street and also at the intersection of CSAH 23 (Cedar Avenue) and 185th Street, subject to approval by the County Attorney's Office as to form.

PREVIOUS BOARD ACTION

None.

ATTACHMENTS

Attachment: CSAH 31 & 179th Location Map

Attachment: CSAH 23 & 185th Location Map

Attachment: CP 31-110 Financial Summary

Attachment: CP 60-28 Financial Summary

BOARD GOALS

A Great Place to Live

A Successful Place for Business and Jobs

A Healthy Environment

Excellence in Public Service

PUBLIC ENGAGEMENT LEVEL

Inform and Listen

Discuss

Involve

N/A

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