

PROCEEDINGS OF THE BOARD OF COUNTY COMMISSIONERS

Date: April 23, 2024

9:00 a.m.

Place: Commissioners Room, Courthouse, Caledonia, MN

Members Present: Dewey Severson, Eric Johnson, Robert Burns, Bob Schuldt, and Greg Myhre

Others Present: Interim Auditor/Treasurer Polly Heberlein, Fillmore County Journal Reporter Charlene Selbee, The Caledonia Argus Associate Editor Rose Korabek, Finance Director Carol Lapham, Board Clerk/EDA Director Allison Wagner, Recorder Mary Betz, Human Resources Director Theresa Arrick-Kruger, Sheriff Brian Swedberg, Chief Deputy Recorder Michelle Werner, City of Caledonia Clerk/Administrator Jake Dickson, WKBT Reporter John Hayes, Caledonia Superintendent Craig Ihrke, Chuck Schulte, DOC District Supervisor Rena Patterson, and Amy Moen

Presiding: Chairperson Johnson

Call to order.

Pledge of Allegiance.

Motion was made by Commissioner Burns, seconded by Commissioner Severson, motion unanimously carried to approve the agenda.

Motion was made by Commissioner Schuldt, seconded by Commissioner Myhre, motion unanimously carried to approve the meeting minutes from April 16, 2024.

Public Comment:

Caledonia resident Chuck Schulte made a public comment regarding the possibility of adding a temporary hold facility for juveniles to the existing Houston County Jail. He asked why there were very few hold facilities, and questioned if the plan had been fully thought through. He said the current jail had been overbuilt as there were very few inmates in the jail. He cautioned the County to do their research before moving forward, and provided a list of questions.

APPOINTMENTS

Department of Corrections (DOC) Supervisor Rena Patterson reviewed the Houston County Department of Corrections Comprehensive Plan with the Commissioners.

CONSENT AGENDA

Motion by Commissioner Burns, seconded by Commissioner Schuldt, motion unanimously carried to approve the consent agenda. Items approved are listed below.

- 1) Approve the banding and pay rate change of Assistant County Attorney Suzanne Bublitz, from D-61 Exempt to D-62 Exempt, hourly equivalent \$57.37 effective 05/06/2024.
- 2) Hire Amy Molling as a probationary 1.0 FTE, Deputy Recorder, B21, Step 4, effective 05/13/2024 conditioned upon successful completion of background check.
- 3) Assign Rachel Meyer, currently Lead Jailer/Dispatcher, as the 1.0 FTE exempt status, Interim Jail Administrator, C43, Step 6 effective retroactively to 04/07/2024 for a period not to exceed one year. Meyer retains rights otherwise accrued during this interim assignment, including hours served towards step placement upon her return to a Lead Jailer/Dispatcher position (Note MOU pending).
- 4) Initiate a competitive search for a probationary 1.0 FTE Jail Administrator.
- 5) Hire Amy Gehrke as a 67-Day Boat Patrol Deputy for the upcoming boating season at C42, step.

ACTION ITEMS

File No. 1 – Commissioners discussed a request by Sheriff Swedberg to approve the Houston County Jail adding an eight day Juvenile Detention Center to the current jail facility with Sheriff Swedberg, Attorney Jandt, and Caldonia Superintendent Craig Ihrke.

Sheriff Swedberg said there were very few inmates in the jail currently due to the Winona contract ending, so him and his staff had looked into other ways to create revenue and utilize the jail. Often there were zero, one, or two inmates in jail. The County had the space to convert part of the facility into a temporary hold facility for juveniles. Sheriff Swedberg said other agencies had told him there was a need for this type of facility in the area. He said some agencies would be willing to contract a bed 365 days a year. The rate for holding juveniles would be \$300.00 per day per bed or \$250.00 per day per bed for a yearly contract. The facility could hold up to eight juveniles for eight days not including weekends and holidays. Houston County would also be able to temporarily hold their own juveniles without having to transport them to other areas of the State saving time and money. Sheriff Swedberg said there were still unknowns with the process as the creation of temporary hold facilities was not common, and there were few examples to look at. Attorney Jandt said other county attorneys had expressed a need for more temporary hold facilities in the State as there were very few options State wide.

Commissioner Johnson asked why there were so few facilities in the State, and why other counties in the area had not created temporary juvenile hold facilities. Attorney Jandt said in Winona there had been a push from the community against it. Commissioner Johnson said he had repeatedly asked for concrete details, projections, numbers, and research on the new facility. He wanted to make sure the idea had been properly researched. He questioned why the Sheriff had not provided any backup information for the packet. Johnson said he needed more information before making a decision.

Superintendent Irke said he understood there was a need for more juvenile facilities in the State, however the school was not “jumping up and down” about the idea. Ihrke said the school would work with the County on the process if they moved forward. He said because the jail was located in Caledonia’s School District, Caledonia School would be required by Statute to provide education for the juveniles in the hold facility if the County created it. Ihrke said the School District would need to hire a teacher specifically for the facility. Ihrke said the school would be able to bill other school districts where the juveniles resided to recoup costs for the educational services. This would create additional administrative work for the school.

Commissioner Myhre asked how much it would cost the County to run the juvenile facility. Commissioner Burns said the training and other costs associated with the facility would be minimal. He said the current jail budget in the County Budget was 1.7 million. Sheriff Swedberg said if the jail was fully staffed with the current positions they would need to add one part time position for the temporary hold facility. He said jail staff could work with both adults and juveniles during their shifts.

Commissioner Schuldt said he saw the need for the juvenile hold facility. He said the County had increased liability when transporting juveniles long distances to other hold facilities in the State. He said there would be less liability if there was a hold facility in Houston County where Houston County juveniles could be taken.

Commissioner Severson moved, Commissioner Burns seconded, motion carried four to one to approve the Houston County Jail adding an eight day Juvenile Detention Center to the Facility. The motion was contingent on an agreement with the school district that included numbers. The Commissioners voted by roll. Commissioners Severson, Burns, Schuldt, and Myhre voted yes. Commissioner Johnson voted no. Attorney Jandt said the County could still opt out of the facility if needed.

File No. 2 – Commissioner Burns moved, Commissioner Schuldt seconded, motion unanimously carried to approve the Memorandum of Agreement with Law Enforcement Labor Services, Inc., Local #60 regarding the appointment of an Interim Jail Administrator.

File No. 3 – Commissioner Severson moved, Commissioner Myhre seconded, motion unanimously carried to review and approve payments. See payments below.

REVIEW LICENSE CENTER PAYMENTS

2024/04/16 AUDITOR WARRANTS:

| VENDOR NAME AT PAYMENT | AMOUNT |
|-------------------------------------|------------------|
| FILLMORE SWCD | 4,825.24 |
| SCHUMACHER'S NURSERY | 3,720.50 |
| SE SWCD TECHNICAL SUPPORT JPB | 2,431.08 |
| | <u>10,976.82</u> |
| 10 VENDORS PAID LESS THAN \$2000.00 | 3,844.47 |
| | <u>14,821.29</u> |

REQUEST APPROVAL FOR PAYMENT

2024/04/23 COMMISSIONER'S WARRANTS:

| VENDOR NAME | AMOUNT |
|-------------------------------------|-------------------|
| C & C MACHINE INC | 6,697.09 |
| ERICKSON ENGINEERING LLC | 8,266.50 |
| EVERETT LAW LLC | 4,204.00 |
| FASTENAL COMPANY | 2,010.59 |
| MNCCC | 12,836.62 |
| OFFICE OF MNIT SERVICES | 7,351.62 |
| SCHNEIDER CORPORATION | 3,001.00 |
| | <u>44,367.42</u> |
| 20 VENDORS PAID LESS THAN \$2000.00 | 10,328.85 |
| | <u>54,696.27</u> |
| PUBLIC HEALTH & HUMAN SERVICES | 47,579.12 |
| | <u>102,275.39</u> |

Public Comment:

Rose Korabek said there were State and Federal grants the County could look into for the eight day Juvenile Detention center.

DISCUSSION ITEMS

Commissioners discussed recent and upcoming meetings including a Department Head meeting.

There being no further business at 10:41 a.m., a motion was made by Commissioner Myhre, seconded by Commissioner Schuldt, motion unanimously carried to adjourn the meeting. The next meeting would be a regular meeting on May 7, 2024.

BOARD OF COUNTY COMMISSIONERS

HOUSTON COUNTY, MINNESOTA

By: _____
Eric Johnson, Chairperson

Attest: _____
Polly Heberlein, Interim Auditor/Treasurer

**HOUSTON COUNTY
AGENDA REQUEST FORM
May 7, 2024**

Date Submitted: 4/23/24

By: Polly Heberlein – Interim Auditor-Treasurer

CONSENT AGENDA REQUEST

Requesting approval for renewing a Consumption and Display Permit for Lawrence Lake Marina, LLC. The license is renewed and issued by the State following County approval. This license authorizes the establishment to permit the consumption and display of intoxicating liquor on the premises. The permit does not authorize the sale of intoxicating liquor.

APPOINTMENT REQUEST

ACTION ITEM REQUESTS

| | | | |
|-------------------------------|---|--|--|
| <u>Reviewed by:</u> | <input type="checkbox"/> HR Director | <input type="checkbox"/> Sheriff | |
| | <input type="checkbox"/> Finance Director | <input type="checkbox"/> Engineer | |
| | <input type="checkbox"/> IS Director | <input type="checkbox"/> PHHS | |
| | <input type="checkbox"/> County Attorney | <input checked="" type="checkbox"/> XX | <input type="checkbox"/> Auditor-Treasurer |
| | <input type="checkbox"/> Environmental Svcs | | |
| <u>Recommendation:</u> | | | |
| <u>Decision:</u> | | | |



Minnesota Department of Public Safety
Alcohol & Gambling Enforcement Division
445 Minnesota Street
St Paul, Minnesota 55101
651-201-7507

RENEWAL OF CONSUMPTION AND DISPLAY PERMIT
Permit Fee \$250 (Renewal Date: April 1)

Iden: 43997

License Code: CDPBL

Business Phone: 507-482-6615

Lawrence Lake Marina LLC
DBA: Lawrence Lake marina
8995 St. Hwy 26
Brownsville, MN 55919

IF NAME AND
ADDRESS SHOWN
ARE NOT CORRECT,
MAKE CHANGES
BELOW

Worker's Comp. Ins. Name Superior Point Policy No. 101522.804 Policy Period 7/21/23 - 7/21/24
City/County where permit approved Brownsville, Houston
Licensee Name Kim Benson D.B.A. Lawrence Lake Marina
Address, City, State, Zip 8995 State 26, Brownsville, MN. 55919
Business Phone 507-482-6615 Email [REDACTED]

By signing this renewal application, applicant certifies that there has been no change in membership, partners, home addresses, or telephone numbers. If changes have occurred, please provide details on the back of this renewal, then sign below.

Applicant's signature on this renewal confirms the following:

Failure to report any of the following will result in fines.

1. Applicant confirms that it has never had a liquor license rejected by any city/township/county in the state of Minnesota. If ever rejected, please give details on the back of this renewal, then sign below.
2. Applicant confirms that for the past five years it has not had a liquor license revoked for any liquor law violation (state or local). If a revocation has occurred, please give details on the back of this renewal, then sign below.
3. Applicant confirms that during the past five years it or its employees have not been cited for any civil or criminal liquor law violations. If violations have occurred, please give details on the back of this renewal, then sign below.
4. Applicant confirms that workers compensation insurance is in effect for the full license period.
5. Applicant confirms, no club on-sale intoxicating liquor license is held.
6. Applicant confirms business premises are separate from any other business establishment.

Additional information to be provided as is necessary

- Indicate (on back of page) changes of corporate officers, partners, home addresses or telephone numbers:
- Report (on back of page) details of liquor law violations (civil or criminal) that have occurred within the last five years. (Dates, offenses fines or other penalties, including alcohol penalties):
- Report (on back of page) any license rejections or revocations:
- City/County Comments:

Kim Benson

Licensee Signature

(Signature certifies all application information to be correct and permit has been approved by city/county.)

1/29/24

Date

City Clerk/County Signature

(Signature certifies that a consumptions and display permit has been approved by the city/county as stated above.)

Date

MAKE CHECKS PAYABLE TO: DIRECTOR ALCOHOL AND GAMBLING ENFORCEMENT AND RETURN WITH APPLICATION.

Amount Received

**HOUSTON COUNTY
AGENDA REQUEST FORM
May 7, 2024**

Date Submitted: May 2, 2024

By: Tess Kruger, HRD/Facilities Mgr.

ACTION

NONE

APPOINTMENT REQUEST

NONE

HR CONSENT AGENDA REQUEST

Assessor

- **Accept/confirm the resignation of Dylan Felten, Commercial Property Appraiser, effective 05/10/2024 (We thank Mr. Felten for his 3 years of service to the residents of Houston County)**
- **Approve a competitive search for an appraiser. (Note: Depending upon qualifications/MN DOR certifications the successful candidate may be hired as an Appraiser Trainee B22, Certified MN Appraiser B23, Certified MN Appraiser-Income B24)**

Auditor/Treasurer

- **Hire Darlene Johnson as a probationary 0.5 FTE, Deputy Auditor/Treasurer-License Center, B22, Step 1, effective 05/15/2024 conditioned upon successful completion of all background checks**

Building Maintenance

- **Hire Holly Ingvalson as a probationary 1.0 FTE, Assistant Custodian II, Step 3, effective 05/15/2024 conditioned upon successful completion of background checks**

Public Health & Human Services

- **Accept/confirm the retirement of Sharen Lapham, Adult Mental Health Social Worker, effective 07/30/2024 (We thank Ms. Lapham for her 32 years of service to the residents of Houston County)**
- **Approve a competitive search for an Adult Mental Health Social Worker**

- **Accept/confirm the resignation of Elizabeth Knutson, Public Health Nurse, effective 06/05/2024 (We thank Ms. Knutson for her 5 years of service to the residents of Houston County)**
- **Approve a competitive search for a public health nurse C42**

CC:

| | | |
|--|---|-----------------------------------|
| <input type="checkbox"/> HR Director | <input type="checkbox"/> Sheriff | |
| <input checked="" type="checkbox"/> Finance Director | <input type="checkbox"/> Engineer | |
| <input type="checkbox"/> IS Director | <input checked="" type="checkbox"/> PHHS | |
| | (indicate | <input type="checkbox"/> A/T |
| <input type="checkbox"/> County Attorney | <input checked="" type="checkbox"/> other dept) | <input type="checkbox"/> Assessor |
| <input type="checkbox"/> Environmental Svcs | | |

Houston County Agenda Request Form

Date Submitted: May 1, 2024 Board Date: May 7, 2024

Person requesting appointment with County Board: Brian Pogodzinski

Issue:

There currently is not a School Zone Speed Limit on CSAH 6 & CSAH 29 (Elm St) within La Crescent near the schools. The City, School District, law enforcement and the Safe Routes to School Committee would like to see a school zone speed limit for when children are present.

Attachments/Documentation for the Board's Review:

Letters of Support, SRTS plan sheets
Resolution establishing speed zones

Justification:

The County may establish a school zone speed limit in accordance with MN Statutes 169.14, Subd. 5a.

Action Requested:

Establish a 20mph school zone speed limit on Elm St (CSAH 6 & CSAH 29) near La Crescent-Hokah Elementary School and Crucifixion School.

For County Use Only

Reviewed by:

| | | |
|------------------------|-----------------------------|------------------------------|
| _____ County Auditor | _____ County Attorney | _____ Zoning Administrator |
| _____ Finance Director | _____ County Engineer | _____ Environmental Services |
| _____ IS Director | _____ Other (indicate dept) | _____ |

Recommendation:

Decision:

All agenda request forms must be submitted to Allison Wagner at BOC@co.houston.mn.us by 12:00 p.m. on Thursday in order to be considered for inclusion on the following week's agenda. The Board will review all requests and determine if the request will be heard at a County Board meeting.

RESOLUTION 24-XX
DRAFT

Establishment of School Zone Speed Limit

May 14, 2024

WHEREAS, there are schools located along Houston County highways within the City of La Crescent; and

WHEREAS, Houston County may establish school zone speed limits in accordance with MN Statutes 169.14, Subd. 5a; and

WHEREAS, a review of the school zone route has been conducted; and

WHEREAS, recommendations for establishing school zone speed limits were made;

NOW THEREFORE, be it resolved that Houston County does hereby agree to the establishment of school zone speed limit postings of “20mph When Children Are Present” at the following locations are hereby approved:

On Houston County State Aid Highway 6 between S 4th St & S 6th St, approximately 872 feet.

On Houston County State Aid Highway 29 between S 1st St & S 3rd St Alley, approximately 450 feet.

The County Engineer shall arrange for installation of said signage.

This resolution shall be in full force and effect upon installation of said signage.

*****CERTIFICATION*****

STATE OF MINNESOTA
COUNTY OF HOUSTON

I, Polly Heberlein, Interim County Auditor/Treasurer, do certify that the above is a true and correct copy of a resolution adopted by the Houston County Board of Commissioners at the session dated May 14, 2024.

WITNESS my hand and the seal of my office this 14th day of May 2024.

Signed by _____
Interim Houston County Auditor-Treasurer



Houston County Commissioners

Dewey Severson, Eric Johnson, Bob Burns, Bob Schuldt and Greg Myhre

RE: Safe Routes to School Support for School Speed Zones

In the summer of 2019, the City of La Crescent was awarded a Minnesota Department of Transportation (MnDOT) Safe Routes to School (SRTS) planning assistance grant. This grant enabled the city to host a planning workshop and create a SRTS plan for the four schools in La Crescent. The SRTS plan includes recommendations for La Crescent-Hokah Elementary, La Crescent-Hokah Secondary, La Crescent Montessori School and Crucifixion Catholic School. A link to the full SRTS plan can be found [here](#).

The La Crescent SRTS Team provided feedback to create a SRTS program that considers the needs of all La Crescent students and families — not just those that attend one of the two ISD 300 schools. Indeed, the Montessori and STEM School and Crucifixion bring another network of passionate parents and caregivers to this city-wide effort. La Crescent's vision for a sustainable SRTS plan calls for both programmatic and engineering improvements. This planning process has brought together engineers, planners, public health staff from the City, State, and Houston County, as well as school and district staff to identify issues, opportunities, and solutions to make walking and biking for all students safe and comfortable. The local planning team also turned to the community for input, too. A number of community and family events gave people in La Crescent the opportunity to share their ideas about walking and biking to school.

The Safe Routes to School team understands that speed is a reliable indicator of risk for pedestrians. The likelihood of a fatality when a pedestrian is hit by a motor vehicle traveling 30 mph is 45%. The likelihood of a fatality for a pedestrian hit by a vehicle traveling at 20 mph is only 5%. Higher speed roads and wider crossing can make walking or biking to school more dangerous for students. When these types of dangers exist, students are far less likely to be allowed to walk or bike to school and may have to be bused across a dangerous intersection even when the student lives across the street from his or her school. In addition to improved pedestrian safety established school speed limits provide students with an opportunity for increased physical activity. If implemented the Safe Routes to School team would play an active role in the awareness campaign for the new school speed limits.

CITY OF LA CRESCENT
315 Main Street
P.O. BOX 142
La Crescent, MN 55947
P: (507) 895-2595
cityoflacrecent-mn.gov

Growing from River to Ridge



The Safe Routes to School vision is to make walking and biking to school safe, comfortable, and fun for all students in La Crescent. The efforts of the City of La Crescent and Houston County to implement school speed zones for all schools in La Crescent align with this vision. We enthusiastically support the efforts to implement school speed zones in La Crescent.

La Crescent Safe Routes to School Team

CITY OF LA CRESCENT
315 Main Street
P.O. BOX 142
La Crescent, MN 55947
P: (507) 895-2595
cityoflacrecent-mn.gov

Growing from River to Ridge



CITY OF LA CRESCENT

Department of Police

Chief Luke M. Ahlschlager



March 26, 2024

Houston County Commissioners

Dewey Severson, Eric Johnson, Bob Burns, Bob Schuldt and Greg Myhre

RE: Establishment of School Speed Zones

As the Police Chief of La Crescent, I am writing to bring to your attention a matter of utmost importance regarding the safety of our community's children.

Over the years, the City of La Crescent has experienced growth, leading to increased traffic in residential areas, particularly those surrounding educational institutions. Four such areas that warrants attention is the La Crescent-Hokah Elementary School, La Crescent-Hokah Middle/High School, Crucifixion School and the La Crescent Montessori School. With a significant number of students attending these educational institutions, it is crucial that we take proactive measures to ensure their safety during peak traffic hours.

I am formally requesting the Houston County Board to consider the establishment of a School Speed Zone in the immediate vicinity of La Crescent-Hokah Elementary School and Crucifixion School. A School Speed Zone is a designated area where school speed limits shall be in effect when children are present, going to or leaving school during opening or closing hours or during school recess periods. Such zones are essential in safeguarding our young pedestrians who may be crossing streets and commuting to and from school.

The proposed School Speed Zones would extend from the following:

La Crescent-Hokah Elementary School

- On South Elm Street (north & south) from South 4th Street to South 6th Street covering approximately 872 feet.

Crucifixion School

- On South Elm Street from the South 3rd Street Alley North to South 1st Street covering approximately 450 feet.

CITY OF LA CRESCENT

Department of Police

Chief Luke M. Ahlschlager

I should note, I am fully aware the two designated areas up for your consideration do experience morning commute traffic congestion which does slow traffic down in those areas. However, the after-school or afternoon commute does not have the same congestion and vehicles are fully able to gather speed from South 7th Street to South 3rd Street. In addition, one of the aims of School Speed Zones is to serve as visual reminders to drivers that are entering an area with a higher concentration of pedestrians, particularly children. This increased awareness can lead to more cautious driving behavior. Lastly, having uniformity with other city streets around the schools with the speed zone designation will help avoid confusion and ensure that drivers know what speed is appropriate when entering a school zone, regardless of its location.

I recommend implementing the following speed limit within the designated zones:

School Zone Speed Limit: The speed limit should be reduced to 20 miles per hour “*when children are present*”. This reduction in speed will allow motorists ample time to react to potential hazards and ensure a safer environment for students and all pedestrians.

Speed Zone Signage: The school speed limit shall be effective upon the erection of appropriate signs (When children are present) designating the speed and indicating the beginning and end of the reduced speed zone. Any speed in excess of such posted school speed limit is unlawful. All such signs shall be erected by the local authorities on those streets and highways under their respective jurisdictions and by the commissioner of transportation on trunk highways.

Awareness Campaign: A comprehensive awareness campaign should be initiated in collaboration with the school administration, local media, and community organizations. This campaign will educate residents and motorists about the importance of the School Speed Zone and the need to exercise caution around our schools.

Enforcement: It is vital to enforce the School Speed Zone rigorously to ensure compliance with the reduced speed limit. Patrol officers will be actively monitoring the designated areas to deter speeding and ensure compliance with the reduced speed limit.

The implementation of a School Speed Zone will undoubtedly contribute to a safer environment for students, parents, and teachers. Moreover, it will serve as a testament to our city's commitment to prioritizing the safety and well-being of its young residents.

I kindly request the County Board's consideration of this proposal, as the safety of our children is of the utmost importance. Should you require any additional information or clarification regarding this matter, please do not hesitate to contact me.



Luke Ahlschlager, Chief of Police

JULY 2020

Safe Routes to School

*A plan to make walking and biking to school
a safe, fun activity*

LA CRESCENT, MINNESOTA

La Crescent-Hokah Elementary
La Crescent-Hokah Secondary
La Crescent Montessori and STEM School
Crucifixion School

mn DEPARTMENT OF
TRANSPORTATION



Community Engagement

Many people helped develop the recommendations found in this plan. Besides stakeholders listed in the acknowledgments section above, project staff engaged the local community through a variety of tools described in the table below. This information came from people who know the issues faced better than anyone else — those who walk and bike in La Crescent and Houston County.

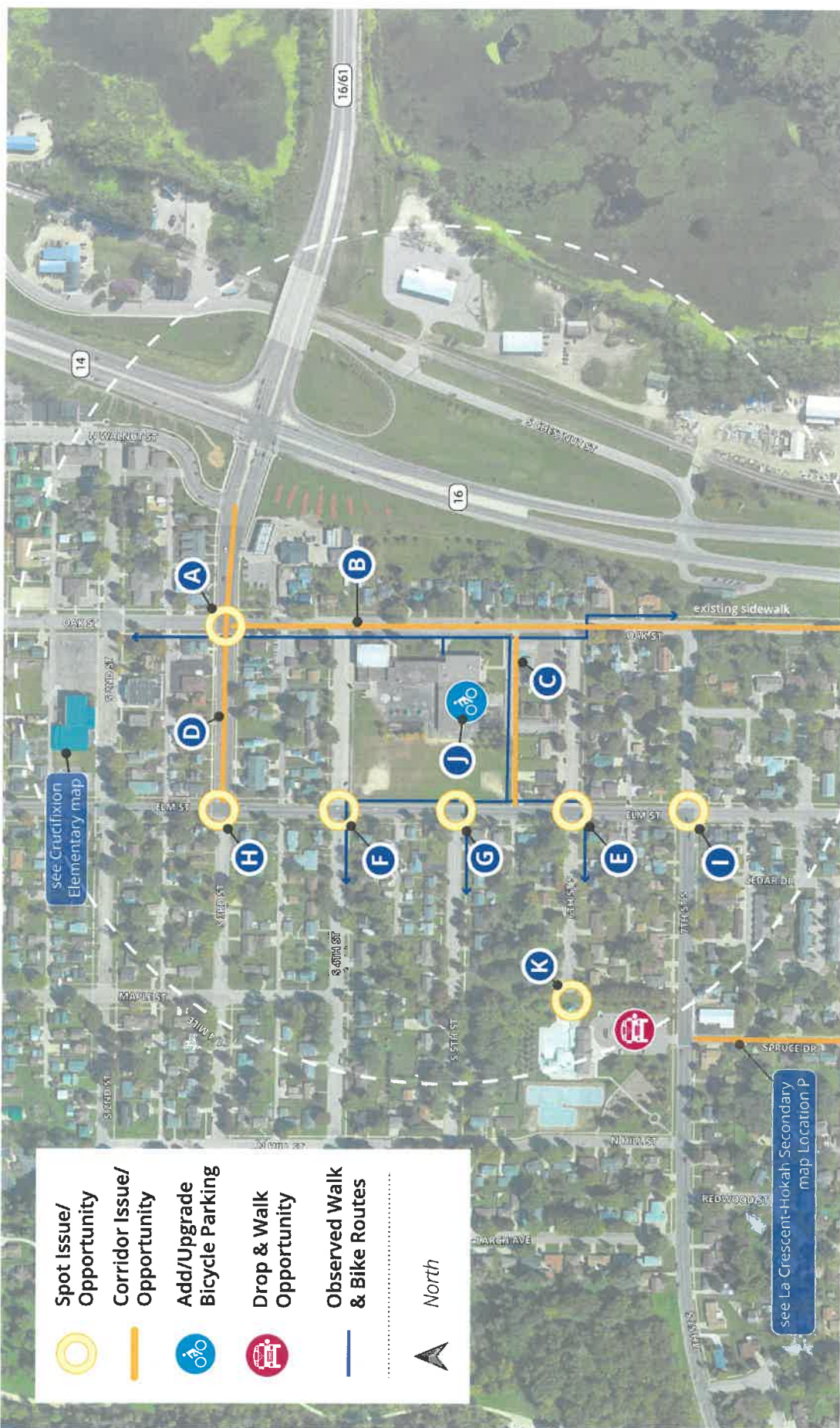
For more information related to engagement results and early data collection including the School Zone Hazard Observation Assessment and Student Travel Tally, see the Appendix section that accompanies this document.

| ENGAGEMENT TOOL | GROUP ENGAGED; PROJECT TIMING | FEEDBACK GATHERED |
|---|--|---|
| Parent Survey An online survey sent to families that asks parents and caregivers how they feel about their child walking and biking to school. | Parents and caregivers of students Fall 2019 | <ul style="list-style-type: none"> • Bike to school day and walking school bus are popular amongst families • Fear of student drivers being reckless or not watching for people walking • Better crossings are needed at the Secondary School along Lancer Blvd and 11th St • There is a desire for more sidewalks in the City |
| Administration Survey An online survey sent to principals and administrators that asks about school and district policies or practices that support walking and biking to school. It also asks about the physical and built environment surrounding school. | School principals and administrators Fall 2019 | <ul style="list-style-type: none"> • A school policy to promote walking and biking exists at the Montessori and STEM School • Policies do not exist at the Elementary School that promote walking and biking to school • The Elementary School does not formally partner with law enforcement, but the Elementary places a staff member at the crossing of 3rd St and Oak St during arrival and dismissal. This adult crossing guard has collected data on walkers and bikers at this intersection |
| Pop up engagement tabling In-person events held at schools or community events where project staff talk with families about ways to improve comfort while walking and biking to school. | Students, parents, caregivers, families Fall 2019 | <ul style="list-style-type: none"> • Other destinations in town include the Aquatic Center/Pool and Old Hickory Park • Walking and biking on and across Elm St and 3rd St can be a challenge • Driver yielding compliance is an issue near schools and in the community • Even with the Elm St bike lane, students still feel unsafe because of driver speeds and separation from traffic |
| Student conversations In person conversations with students about their experiences walking and biking in the community. | La Crescent students Fall 2019 | <ul style="list-style-type: none"> • Students driving, biking, and walking use the Oak St corridor to connect to destinations in La Crescent • Students informally participate in SRTS programs like walking school buses and bike trains by traveling together in groups |

EQUITY IN SRTS

Equity in SRTS means that every student is able to safely, comfortably, and conveniently walk and bike to school, regardless of race, cultural identity, tribal affiliation, immigrant or refugee status, language, gender or sexual identity, income, religion, and whether or not a student receives special education, has a physical or mental disability, or is homeless or highly mobile.

An equity approach requires working with local partners to tailor programs and allocate resources to meet the unique needs of the community.

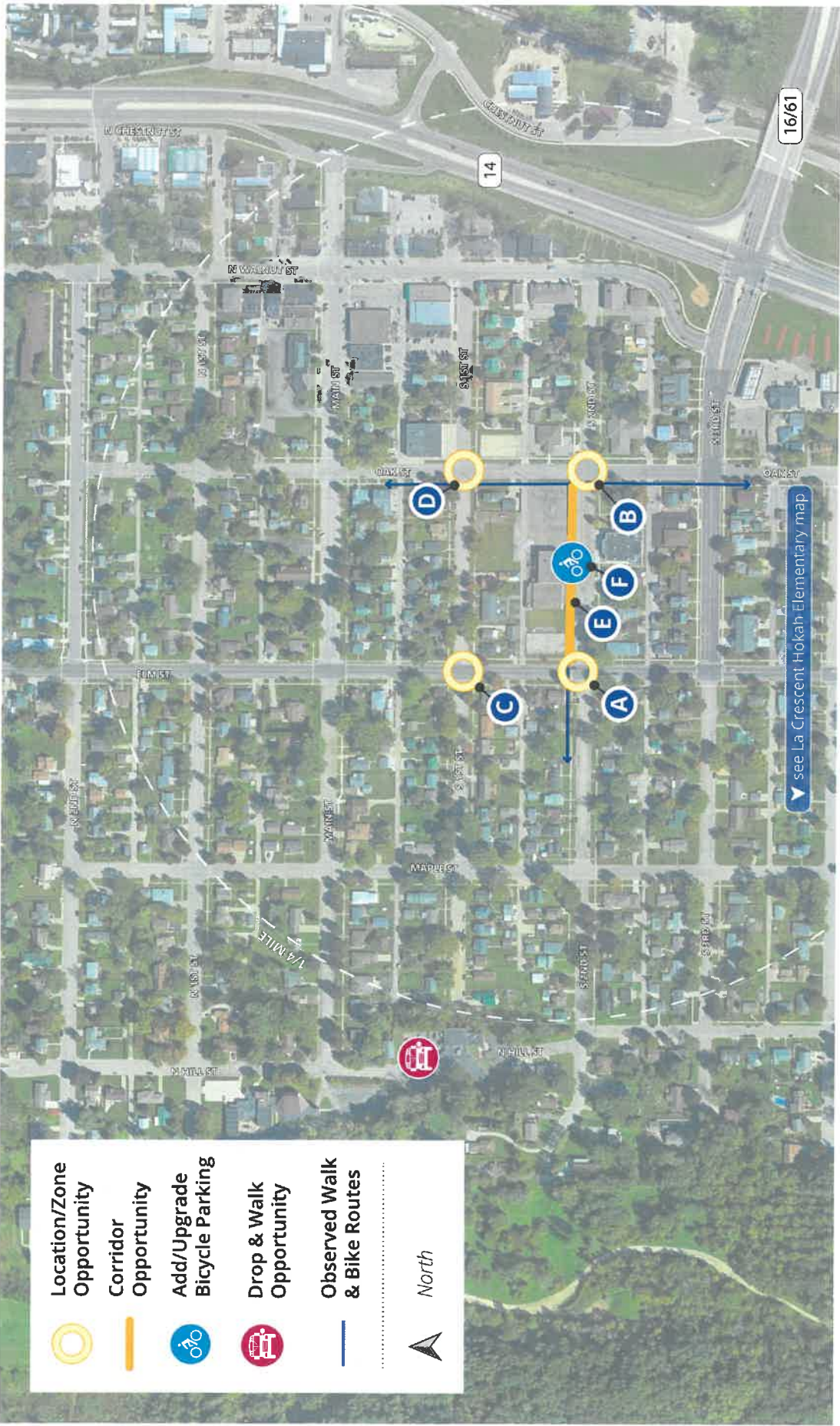


LA CRESCENT HOKAH ELEMENTARY SCHOOL

LA CRESCENT, MN

La Crescent Hokah Elementary Infrastructure Recommendations

| | LOCATION | PROBLEM/ISSUE | POTENTIAL SOLUTION/RECOMMENDATION | ANTICIPATED OUTCOME | LEAD | PRIORITY |
|---|--|---|--|--|--|----------|
| A | S 3rd St and Oak St | Long and uncomfortable crossing distances; poor driver yielding behavior; high traffic volumes and speeds, especially during arrival and dismissal | Install curb extensions; install advance yield lines on S 3rd St; coordinate with location D; install forward stop bars on S Oak St | Increased comfort for people crossing S 3rd St | MnDOT; Houston County; City of La Crescent | Medium |
| B | Oak St south of S 3rd St | Drivers often use Oak St as a cut through to avoid Hwy 16, leading to an uncomfortable experience for people walking and biking to school | Install traffic calming along Oak St corridor including raised crossings, chicanes, curb extensions, neighborhood traffic circles, or diverters. Coordinate with future development at S 3rd St. | Slower vehicle speeds; less vehicle traffic; increased comfort for people walking along Oak St | City of La Crescent; MnDOT | High |
| C | Alley south of campus | Currently used as a drop off and pick up for drivers, resulting in potential conflicts and uncomfortable conditions | Install temporary gate or barrier to restrict access to cars during pick up and drop off; coordinate with redesign of Elementary School | More comfortable space for people walking and biking | ISD 300; City of La Crescent | Low |
| D | S 3rd St between Elm St and Walnut St | Long and uncomfortable crossing distances; poor driver yielding behavior; high vehicle speeds and volumes as drivers travel to and from S 3rd St and Hwy 14/16/61 | Consider reducing S 3rd St from four lanes to three; coordinate with locations A and H | Increased comfort for people crossing S 3rd St | MnDOT; Houston County; City of La Crescent | High |
| E | 6th St S and Elm St | Long and uncomfortable crossing distances; poor driver yielding behavior; poor visibility; high traffic volumes and speeds, especially during arrival and dismissal | Install curb extensions on the west side of Elm St; maintain trees and vegetation on the west side of Elm St; install ADA compliant curb ramps where missing; install forward stop bars | Improved visibility, and increased comfort for people crossing Elm St | Houston County; City of La Crescent | High |
| F | S 4th St and Elm St | Long and uncomfortable crossing distances; poor driver yielding behavior; poor visibility; high traffic volumes and speeds, especially during arrival and dismissal | Install curb extensions on the west side of Elm St; maintain trees and vegetation on the west side of Elm St; install ADA compliant curb ramps where missing | Improved visibility, and increased comfort for people crossing Elm St | Houston County; City of La Crescent | High |
| G | S 5th St and Elm St | Long and uncomfortable crossing distances; poor driver yielding behavior; poor visibility; high traffic volumes and speeds, especially during arrival and dismissal | Install curb extensions on the west side of Elm St; maintain trees and vegetation on the west side of Elm St; install ADA compliant curb ramps where missing; install forward stop bars | Improved visibility, and increased comfort for people crossing Elm St | Houston County; City of La Crescent | Low |
| H | S 3rd St and Elm St | Long and uncomfortable crossing distances; poor visibility; high traffic volumes and speeds, especially during arrival and dismissal | Install curb extensions on the west side of Elm S and on S 3rd St; coordinate with location D; install ADA compliant curb ramps where missing | Improved visibility, and increased comfort for people crossing Elm St and S 3rd St | MnDOT; Houston County; City of La Crescent | Medium |
| I | 7th St S and Elm St | Long and uncomfortable crossing distances; poor visibility; high traffic volumes and speeds, especially during arrival and dismissal | Install curb extensions on the west side of Elm S; install ADA compliant curb ramps where missing | Improved visibility, and increased comfort for people crossing Elm St | Houston County; City of La Crescent | Low |
| J | Playground area, back of school | No high quality bicycle parking | Install high quality bicycle parking described in Appendix K | More students biking to school | ISD 300 | Medium |
| K | Where 6th St S meets Aquatic Center/Pool | Fence is difficult to navigate with bicycle; no formal path down hill | Install shared use path down hill to Aquatic Center/Pool; install gate that allows people on bikes to pass through comfortably | More students biking from neighborhoods west and south of 7th St S and Elm St | City of La Crescent | Low |



CRUXIFIXION ELEMENTARY

LA CRESCENT, MN

Crucifixion Elementary Infrastructure Recommendations

| LOCATION | PROBLEM/ISSUE | POTENTIAL SOLUTION/RECOMMENDATION | ANTICIPATED OUTCOME | LEAD | PRIORITY |
|----------------------------------|---|---|---|-------------------------------------|----------|
| A S 2nd St and Elm St | Long and uncomfortable crossing distances; high vehicle volumes, especially during arrival and dismissal; poor visibility; missing ADA compliant curb ramps | Install curb extensions on the west side of Elm St; maintain trees and vegetation on the west side of Elm St; install ADA compliant curb ramps where missing; install forward stop bars | Improved visibility, and increased comfort for people crossing Elm St | Houston County, City of La Crescent | High |
| B S 2nd St and Oak St | Long and uncomfortable crossing distances; missing ADA compliant curb ramps | Install curb extensions past parking spaces on S 2nd St or prohibit parking in the two spaces closest to crosswalk on northwest corner; install ADA compliant curb ramps where missing; install forward stop bars | Improved visibility, and increased comfort for people crossing | City of La Crescent | Medium |
| C S 1st St and Elm St | Long and uncomfortable crossing distances; high vehicle volumes, especially during arrival and dismissal; poor visibility; missing ADA compliant curb ramps | Install curb extensions on the west side of Elm St; install high visibility crosswalks; install ADA compliant curb ramps where missing; install forward stop bars | Improved visibility, and increased comfort for people crossing Elm St | Houston County, City of La Crescent | High |
| D S 1st St and Oak St | Long and uncomfortable crossing distances; missing ADA compliant curb ramps | Install curb extensions; install high visibility crosswalks; install ADA compliant curb ramps; install forward stop bars | Improved visibility and increased comfort for people walking | City of La Crescent | Low |
| E Parking lane along S 2nd St | Parked vehicles encroach on the sidewalk space | Install curb to delineate parking space extent | Fewer vehicles encroaching on pedestrian space; increased comfort for people walking along S 2nd St | Crucifixion Elementary | Low |
| F Outside front door on S 2nd St | No high quality bike parking | Install high quality bicycle parking described in Appendix K | More students biking to school | Crucifixion Elementary | Low |

Appendix F. Parent/Caregiver Survey

The following shows a summary of results of a survey sent home to parents and caregivers of children attending schools in La Crescent. Notice there are separate survey results from middle and high school students. The graphics and charts summarize responses to questions designed by the National Safe Routes to School Data Collection System.

LA CRESCENT-HOKAH ELEMENTARY

Parent Survey Report: One School in One Data Collection Period

School Name: La Crescent-Hokah Elementary School

Set ID: 19084

School Group: ISD 300

Month and Year Collected: October 2019

School Enrollment: 0

Date Report Generated: 11/04/2019

% Range of Students Involved in SRTS: Don't Know

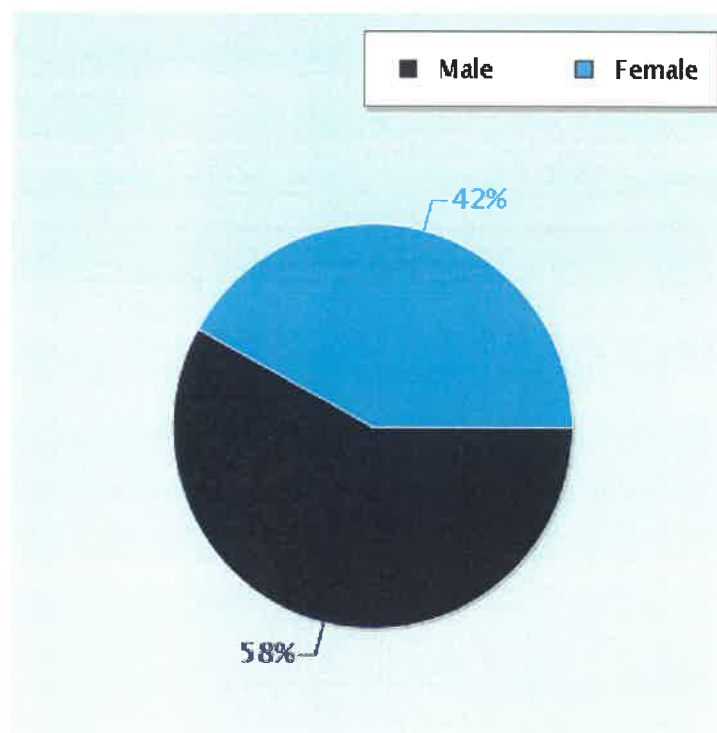
Tags:

Number of Questionnaires Distributed: 0

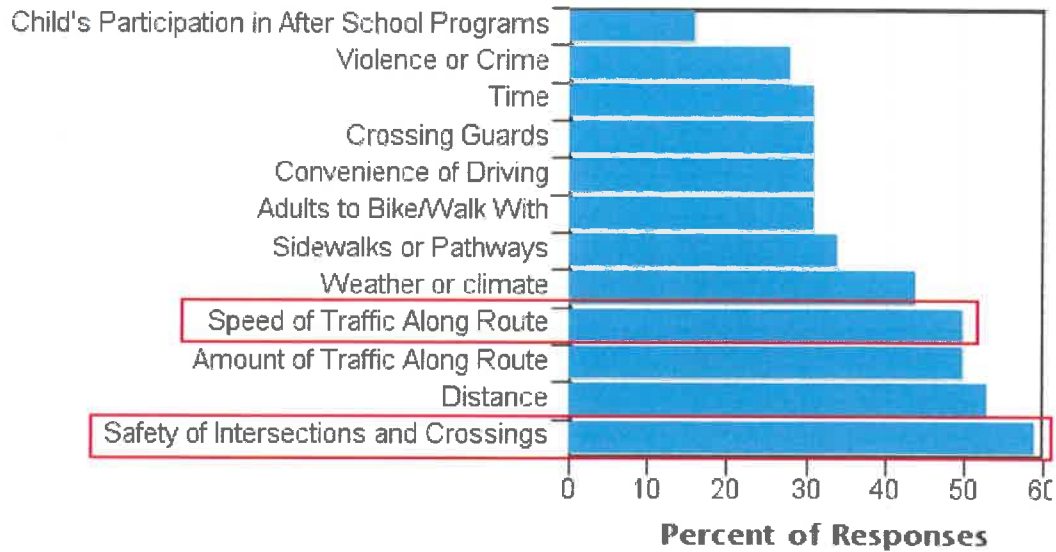
**Number of Questionnaires
Analyzed for Report:** 46

This report contains information from parents about their children's trip to and from school. The report also reflects parents' perceptions regarding whether walking and bicycling to school is appropriate for their child. The data used in this report were collected using the Survey about Walking and Biking to School for Parents form from the National Center for Safe Routes to School.

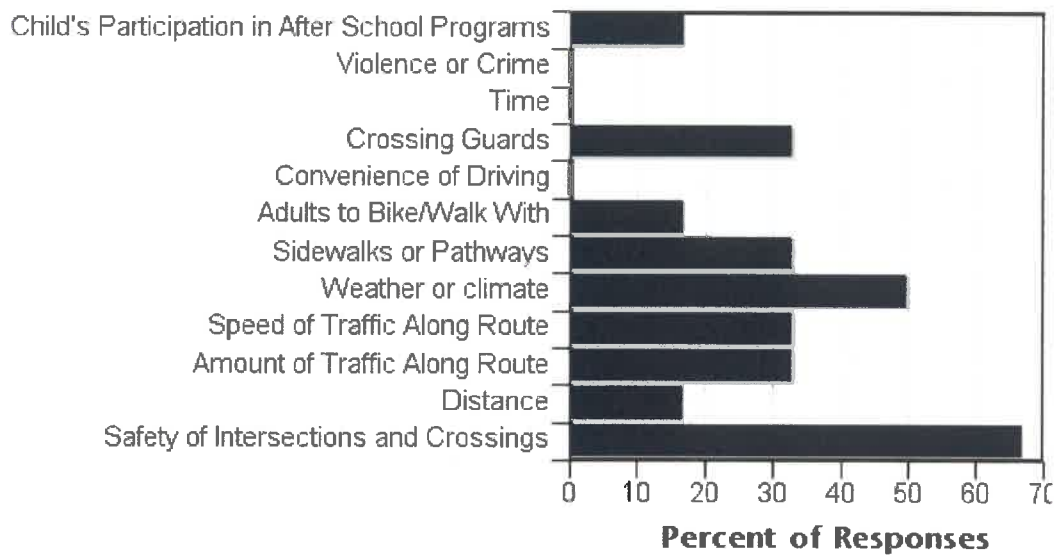
Sex of children for parents that provided information



Issues reported to affect the decision to not allow a child to walk or bike to/from school by parents of children who do not walk or bike to/from school



Issues reported to affect the decision to allow a child to walk or bike to/from school by parents of children who already walk or bike to/from school



Comments Section

| SurveyID | Comment |
|----------|--|
| 1682752 | The drop off lane, corner of 6th and Oak, desperately need a crossing guard... cars come flying around the corner into the lot there |
| 1681860 | Crossing guards could stay at intersections longer. I also worry about my child's safety with the highway so close by. Kwik Trip makes traffic and presence of strangers close to school a huge concern for me. Strangers at Kwik Trip plus highway so close spells SCARED PARENT in my book. |
| 1681877 | Bike to school day, and walking school bus, are big hits for our kids. |
| 1681681 | County 6 has a little too much traffic at too high of a speed for us to feel comfortable with our children walking/biking to school. They would have to be quite a bit older to ride a bike to school as things are now. If there were sidewalks the entire way from our house to school, we would probably consider it. |
| 1681686 | The intersections have cross walks and stop signs in many places. Cars are very good about letting children cross the street in the mornings. I've never had a problem letting my children walk to school. People driving know school children are out and about between 7:30ish and 8. My 3rd grader walks my kindergartener to school some days and there's never been an issue. We don't live in Chicago or La Crosse where traffic is so horrible you wouldn't want your kids walking alone. |
| 1681700 | Need significant improvement in drop off and parking |
| 1681727 | We live in Hokah, and the drive to La Crescent is not safe for any of the kids to be biking in the morning. The shoulder of the road is pretty much nonexistent and damaged, and there is too much traffic. I do appreciate how much our school promotes bike to school as an option. |
| 1681796 | Live too far away to walk/ride bike to school |
| 1681887 | We participate in the before and after school child care program so we drive our children there as we have to be to work earlier than they have to be to school. This is a big reason why our children do not walk/bike to school. We also live out past a main highway, which I do not trust my children to ride on without sidewalks without an adult, so they ride the bus if we do not drop them off at school. |
| 1681684 | We live out of town. If there were a bike path off of the road between the Pine Creek golf course and town I would consider letting her walk or bike to school when she gets older. People drive too fast on Pine Creek Rd and on County Rd 6. |
| 1681923 | I would like to have more police watch during the times before and after school. Too many people don't stop for the crossing Guard and I feel the kids are in danger cuz of the speed they travel on that road |
| 1682453 | We don't walk or bike to school because of the distance. We are 10 miles from La Crescent |
| 1681689 | Stoplight at S. 3rd and S. Oak would be nice |
| 1681697 | My kindergartener rides his bike with his older sister who is in second grade. |

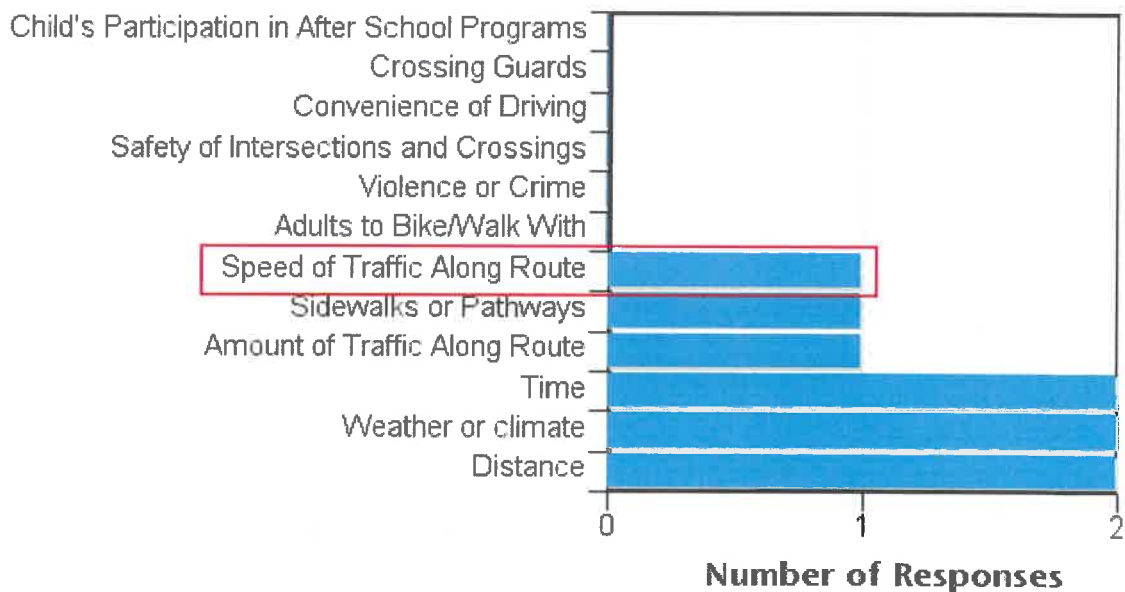
Parent Survey Report: One School in One Data Collection Period

School Name: Crucifixion Elementary School**Set ID:** 19082**School Group:** ISD 300**Month and Year Collected:** October 2019**School Enrollment:** 0**Date Report Generated:** 11/04/2019**% Range of Students Involved in SRTS:** Don't Know**Tags:****Number of Questionnaires Distributed:** 0**Number of Questionnaires
Analyzed for Report:** 3

This report contains information from parents about their children's trip to and from school. The report also reflects parents' perceptions regarding whether walking and bicycling to school is appropriate for their child. The data used in this report were collected using the Survey about Walking and Biking to School for Parents form from the National Center for Safe Routes to School.

****Because less than 30 questionnaires are included in this report, each graph and table display counts rather than percentage information.**

Issues reported to affect the decision to not allow a child to walk or bike to/from school by parents of children who do not walk or bike to/from school



Issues reported to affect the decision to allow a child to walk or bike to/from school by parents of children who already walk or bike to/from school

| Issue | Child does not walk/bike to school | Child walks/bikes to school |
|---------------------------------------|------------------------------------|-----------------------------|
| Distance | 2 | 0 |
| Weather or climate | 2 | 0 |
| Time | 2 | 0 |
| Amount of Traffic Along Route | 1 | 0 |
| Sidewalks or Pathways | 1 | 0 |
| Speed of Traffic Along Route | 1 | 0 |
| Adults to Bike/Walk With | 0 | 0 |
| Violence or Crime | 0 | 0 |
| Safety of Intersections and Crossings | 0 | 0 |

SCHOOL SPEED ZONE

Description

School speed zones reduce speed limits near schools, and alert motorists that they are driving near a school. School speed zones are defined as the section of road adjacent to school grounds, or where an established school crossing with advance school signs is present. Each road authority may establish school speed zone limits on roads under their jurisdiction. In general, school speed limits shall not be more than 30 mph below the established speed limit, and may not be lower than 15 mph. Speed violations within school speed zones are subject to a double fine.



Resources

- MnDOT Minnesota's Best Practice for Pedestrian and Bicycle Safety – Pages: 48-51
- MnDOT School Zone Speed Limits
- MN MUTCD: Part 7. Traffic Controls for School Areas – Section: 7E

Estimated Costs^{A, C}

- \$600 for sign and post in each direction

SHARED USE PATH

Description

Shared-use paths provide off-road connections for people walking and biking. Paths are often located along waterways, abandoned or active railroad corridors, limited access highways, or parks and open spaces. Shared-use paths may also be located along high-speed, high-volume roads as an alternative to sidewalks and on-street bikeways; however, intersections with roadways should be minimal. Shared-use paths are generally very comfortable for users of all ages and abilities.



Resources

- MnDOT Minnesota's Best Practice for Pedestrian and Bicycle Safety – Page: 2
- MnDOT Bikeway Facility Design Manual – Pages: 123-168
- AASHTO Guide for the Development of Bicycle Facilities – Chapter 5

Estimated Costs^B

- \$55 per linear foot, 10 ft trail with aggregate base and associated costs

INTRODUCTION

Higher vehicle speeds are strongly associated with a greater likelihood of both a pedestrian crash and serious pedestrian injury. A 1999 National Highway Traffic Safety Administration study found that 5 percent of pedestrians are fatally injured when struck by a vehicle traveling at 20 mph or less. This compares with fatality rates of 40, 80, and nearly 100 percent when the pedestrian is struck at 30, 40, and 50 mph or more, respectively.¹

Simply setting a reduced speed limit in a school zone is not likely to produce the entire desired speed reduction on its own. Tools used to assist in reducing vehicle speeds in school zones include police enforcement (for example, conventional, automated speed cameras, double fines), public awareness campaigns, and engineering countermeasures. Traffic engineering tools include school speed limit zones and traffic calming (such as curb extensions or raised crosswalks). See ITE Briefing Sheet—*The Use of Traffic Calming Near Schools* for more information. Applying a combination of measures in conjunction with a reduced speed limit is more likely to slow traffic.

SCHOOL SPEED ZONES

Many parents and school and community groups request that the school speed limit be reduced by the greatest possible extent, with the expectation that motorists will obey the posted speed limit. While speeds are lower in a school speed limit zone as compared to when the posted regulatory speed is in effect, the average operating speed does not always reach the posted school speed limit even when combined with flashing lights. Research shows that the measured 85th percentile speed is about 5 to 7 mph higher than the posted school speed limit (see Figure 1).² Therefore, while a school speed limit zone does have lower speeds, drivers still exceed the posted school speed limit.

Principal questions with reduced school speed limits include:

- Should speed limits be reduced for the school?
- What limit should be selected for the reduced school speed limit?
- Where should the reduced school speed limit zone begin and end?
- When should the reduced school speed limit be in effect?

The answers to these questions vary widely between states and individual jurisdictions. In many cases, some of these issues are settled by state statute or local ordinance. In the absence of state or local requirements, a jurisdiction should establish uniform procedures for considering the need for and the implementation of school speed limit zones.

Should Speed Limits Be Reduced for the School?

The evaluation process needs to measure existing speeds on the street in question during school hours and determine whether speeds are higher than desired. The evaluation process should consider whether other actions might bring about the desired results more effectively.

A school speed limit zone typically is considered when children are crossing a roadway going to and from school. The zone may be considered on any street along the school frontage.

In some regions, school speed limit zones are generally not used when signalized or stop-controlled intersections are present at the school crossings, because their traffic control creates gaps that children can use to cross a roadway. A school speed limit zone may be installed or retained at a roundabout, at a signalized or stop-controlled intersection (for example, as a mitigation measure for concerns related to sight distance), or in other situations as determined by an engineering study.

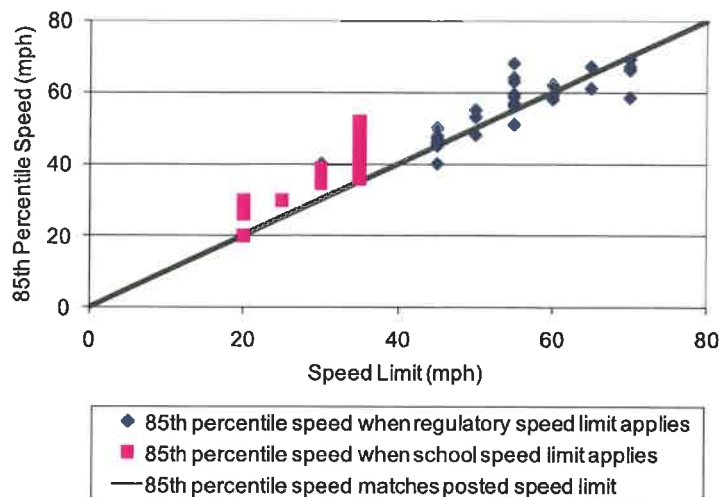


Figure 1. Measured 85th percentile speeds for school sites in Texas when reduced school speed limits are and are not active.²

Young

students need slower speeds in school zones because children do not have the same abilities as adults in:

- Seeing and evaluating traffic conditions because of their height;
- Processing information because of their limited peripheral vision and visual acuity;
- Perceiving correctly the direction and sound of traffic; and
- Understanding the use of traffic control devices and crosswalks.

What Speed Limit Should Be Selected for the School Zone?

The value used for the reduced school speed limit varies and is influenced by state and local laws. In some states, the value is the same for all reduced-speed school zones. In other locations, the value must fall within a range depending on the established speed limit or is entirely determined on a case-by-case basis. See Table 1 for examples of school speed limit zone values.

Table 1. A Sample of School Speed Limit Zone Values

| State | Speed Limit in School Zone | |
|----------------------------|---|--|
| Arizona ³ | 15 mph | |
| Delaware ⁴ | 20 mph | |
| Iowa ⁵ | No fixed value. Locations are evaluated on a case-by-case basis, usually 10 mph below posted speed limit. | |
| Massachusetts ⁶ | 20 mph | |
| Minnesota ⁷ | No more than 30 mph below the established speed limit and no lower than 15 mph. | |
| Montana ⁸ | No fixed value. Locations are evaluated on a case-by-case basis. | |
| New Hampshire ⁹ | 10 mph under the posted speed limit. | |
| New Jersey ¹⁰ | 25 mph | |
| Ohio ¹¹ | 20 mph | |
| Oregon ¹² | 20 mph | |
| Pennsylvania ¹³ | 15 mph | |
| South Dakota ¹⁴ | 15 mph | |
| Texas ¹⁵ | 85th Percentile Speed | Suggested School Speed Limit |
| | Below 55 mph | Not more than 15 mph below 85th percentile speed or posted speed. Not to exceed a 35 mph school speed limit. |
| | 55 mph | 20 mph below the 85th percentile speed or posted speed. |
| | Greater than 55 mph | Use buffer zone to transition to a 35 mph speed limit. |
| Washington ¹⁶ | 20 mph | |

Speed studies provide a sound basis for selecting the proper speed limits for school zones. While it is not common practice to set speed limits significantly lower than the 85th percentile speed for regulatory speed zones, exceptions to this practice are often found in school zones.

Factual studies, reason, and sound engineering judgment, rather than emotion, should govern the final decision on the maximum deviation from the 85th percentile speed that will provide a reasonable and prudent school speed limit.

Where Should the School Speed Limit Zone Begin and End?

In some states, the start and end of the school speed zone are established by state law. The *Manual on Uniform Traffic Control Devices* (MUTCD) states that the beginning point of a reduced school speed limit zone should be at least 200 ft. in advance of the school grounds, a school crossing, or other school-related activities. This 200-ft. distance should be increased, however, if the reduced school speed limit is 30 mph or higher. Researchers suggest the beginning of the school speed limit zone be based upon the school speed limit as follows:²

Table 2. Suggested beginning of school speed limit zone

| School Speed Limit (mph) | Distance to Crosswalk or First Driveway (ft.) |
|--------------------------|---|
| 20 | 200 |
| 25 | 200 |
| 30 | 300 |
| 35 | 400 |

The location of the beginning and end of a school speed limit zone should be based on engineering judgment rather than the exact location of the school property line or fence. The school speed limit zone should be centered at the location(s) where children cross the roadway. The beginning and ending points should be selected with appropriate consideration for the location of other traffic control devices and/or features that could affect the effective implementation of the school speed limit zone.

School speed limit zones in urban areas, where speeds are 30 mph or less, may have school zones as short as 400 ft. School speed limit zones in rural areas, where regulatory posted speeds are typically 55 mph or more, will have longer school zones. The suggested length of school zones in rural areas is 1,000 ft.

Research has shown that speeds are approximately 1 mph higher for every 500 ft. driven within a school zone; therefore, longer school zones are associated with greater speed variability within the zone.²

When Should a Reduced School Speed Limit Be in Effect?

Generally, the reduced school speed limit zones should be in effect only during specified intervals such as at the start and end of a school day. While the transportation agency responsible for the roadway operations and maintenance installs the signs, the times are generally set through consulting with the local school district. Close cooperation is needed between school officials and those who operate the roadway.



Figure 2. Example of school speed limit sign.
Source: Aliyah N. Horton

In some locations, the intervals of operation of the flashing beacons (if used) on the school speed limit sign assemblies may be extended or revised for school events, as agreed upon by the school district and the entity responsible for operating the flashing beacons. In this case, the flashing beacons should be in operation only when there is an increase in vehicular activity and/or pedestrian or bicycle traffic in and around the roadway associated with the school event.

Research has also shown that operating speeds in an active school speed limit zone are at their lowest close to the start time or end time of the school day.² Approximately 20 minutes past these times, the speed increases 1 mph. Automated flashers (example shown in Figure 2) used with reduced school speed limit assemblies must be coordinated with school officials for half-day sessions and early release to ensure that the reduced speed is in effect during school crossing times. Local traffic officials need to coordinate with school officials each year to ensure that the traffic control plans fit the school arrival and dismissal schedule.

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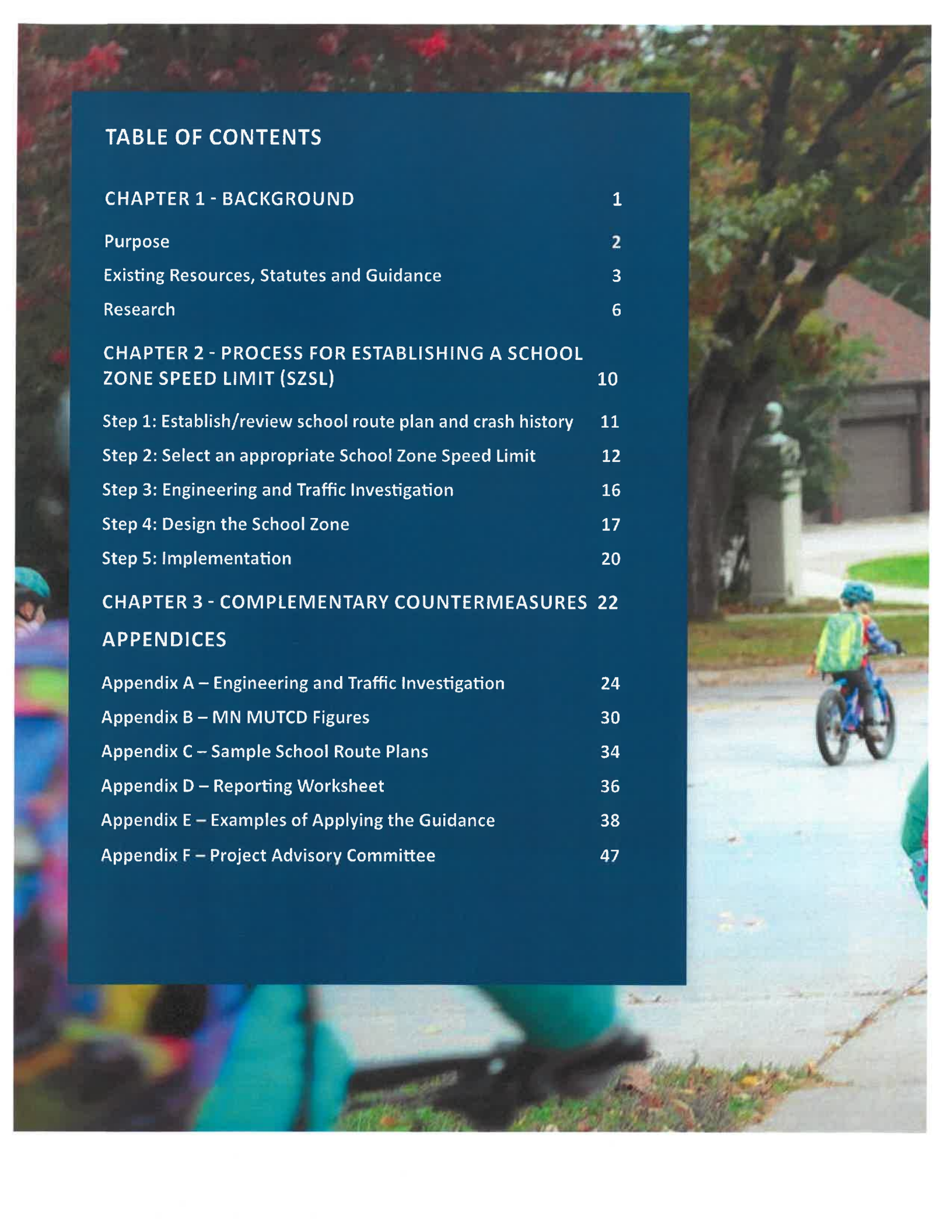
DEPARTMENT OF
TRANSPORTATION

GUIDE FOR ESTABLISHING SCHOOL ZONE SPEED LIMITS

JUNE 2023

TABLE OF CONTENTS

| | |
|--|-----------|
| CHAPTER 1 - BACKGROUND | 1 |
| Purpose | 2 |
| Existing Resources, Statutes and Guidance | 3 |
| Research | 6 |
| CHAPTER 2 - PROCESS FOR ESTABLISHING A SCHOOL ZONE SPEED LIMIT (SZSL) | 10 |
| Step 1: Establish/review school route plan and crash history | 11 |
| Step 2: Select an appropriate School Zone Speed Limit | 12 |
| Step 3: Engineering and Traffic Investigation | 16 |
| Step 4: Design the School Zone | 17 |
| Step 5: Implementation | 20 |
| CHAPTER 3 - COMPLEMENTARY COUNTERMEASURES | 22 |
| APPENDICES | |
| Appendix A – Engineering and Traffic Investigation | 24 |
| Appendix B – MN MUTCD Figures | 30 |
| Appendix C – Sample School Route Plans | 34 |
| Appendix D – Reporting Worksheet | 36 |
| Appendix E – Examples of Applying the Guidance | 38 |
| Appendix F – Project Advisory Committee | 47 |





CHAPTER 1 - BACKGROUND

This document is an update to the 2012 “A Guide to Establishing Speed Limits in School Zones.” Since the 2012 version, changes in research and best practices have occurred in relation to the safety of people walking and biking as well as school zone safety. Safe Routes to School (SRTS) resources and Safe Systems initiatives now offer more holistic evaluation of school area safety, stressing the importance of a layered and redundant safety approach.

This document provides guidance on setting appropriate School Zone Speed Limits (SZSLs). It is based on current best practices and provides a step-by-step process for identifying and implementing an appropriate SZSL as well as other important characteristics for designing a school zone. This document also provides links to valuable resources that are meant to compliment a SZSL. While research shows that appropriate SZSLs on their own have the ability to lower motorist speeds within school zones, the multifaceted approach covered in a SRTS plan is considered best practice for improving school area safety.

SZSLs should be considered just one of many steps for improving the safety of students, parents and staff walking, biking and rolling to school.

BACKGROUND

PURPOSE

This document:

- **Defines procedures that will satisfy the engineering and traffic investigation requirements of Minnesota Statute 169.14 subd 5a.**
 - The statute states that “local authorities may establish a school speed limit within a school zone of a public or nonpublic school upon the basis of an engineering and traffic investigation as prescribed by the commissioner of transportation.”
 - The school zone investigation set forth in this document constitutes the prescribed engineering and traffic investigation. This is a coordinated effort requiring several disciplines to accurately perform and process the duties described within this document.
- Is a resource for links to research and guidance on school zone safety and speed management countermeasures.
- Is intended for use by engineers and community leaders as a decision-making tool to assist in the setting of appropriate SZSLs.
- Provides a five-step process for establishing a SZSL. →



This document does NOT replace the need for a Safe Routes to School (SRTS) Plan and comprehensive school transportation safety planning.

Five-Step Process for Establishing a SZSL



STEP 1

Establish or review a School Route Plan and crash history



STEP 2

Select an appropriate SZSL



STEP 3

Engineering and traffic (E&T) investigation (if needed)



STEP 4

Design the school zone



STEP 5

Implementation

BACKGROUND

EXISTING RESOURCES, STATUTES AND GUIDANCE

As noted previously, a variety of resources, guidance and statutes exist that pertain to SZSLs. This section summarizes:

- Minnesota Safe Routes to School Program (MnSRTS)
- State statutes and definitions
- Changes to the Minnesota Manual on Uniform Traffic Control Devices (MN MUTCD)

Minnesota Safe Routes to School

Minnesota Safe Routes to School is the primary resource recommended to assist with improving safety around schools. The MnSRTS vision is for youth in Minnesota to be able to safely, confidently, and conveniently walk, bike, and roll to school and in daily life. The program provides resources to improve safety, reduce traffic and improve air quality near schools through a multidisciplinary approach that is structured around the 6 E's:



6E's

- EVALUATION
- EDUCATION
- ENCOURAGEMENT
- EQUITY
- ENGAGEMENT
- ENGINEERING

School Zone Speed Limits covered in this guide are just one aspect of the Engineering portion of a SRTS program. Other engineering improvements can include geometric changes to the roadway, signing, crosswalk markings, etc. For best results, a multidisciplinary approach to school zones and school walksheds¹ should be considered to address all 6 E's to provide lasting safety benefits around schools. The [Safe Routes to School Resource Index](#) provides a wealth of information on designing, funding and evaluating safe streets and active transportation facilities around schools.

¹ A walkshed is the total walkable area from the school. It can be measured as a radius from the school or along a road or sidewalk network. Typical walkshed distances range from 0.5 miles to 1.5 miles for school age students dependent on age and ability.



BACKGROUND

State statutes and definition

The State of Minnesota has a variety of state statutes and definitions related to school zones. As of the date of this document, the following statutes and definitions are in effect which allow local roadway authorities to establish school zone speed limits.

SCHOOL SPEED LIMIT STATUTE

Statute 169.14.5a.(a)

“Local authorities may establish a school speed limit within a school zone of a public or nonpublic school upon the basis of an engineering and traffic investigation as prescribed by the commissioner of transportation².

The establishment of a school speed limit on any trunk highway shall be with the consent of the commissioner of transportation. Such school speed limits shall be in effect when children are present, going to or leaving school during opening or closing hours or during school recess periods.

The school speed limit shall not be lower than 15 miles per hour and shall not be more than 30 miles per hour below the established speed limit on an affected street or highway.”

Statute 169.14.5a.(b)

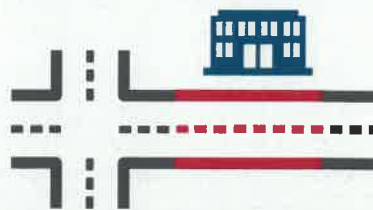
“The school speed limit shall be effective upon the erection of appropriate signs designating the speed and indicating the beginning and end of the reduced speed zone. Any speed in excess of such posted school speed limit is unlawful. All such signs shall be erected by the local authorities on those streets and highways under their respective jurisdictions and by the commissioner of transportation on trunk highways.”

² This document and completion of the five-step process outlined in Chapter 2 satisfies the Engineering and Traffic Investigation requirements of Statute 169.14 subd 5a

SCHOOL ZONE DEFINITION

Section 169.14.5a.(c)

“(c) For the purpose of this subdivision, “school zone” means that section of a street or highway which abuts the grounds of a school where children have access to the street or highway from the school property or where an established school crossing is located provided the school advance sign prescribed by the Manual on Uniform Traffic Control Devices adopted by the commissioner of transportation pursuant to section 169.06 is in place. All signs erected by local authorities to designate speed limits in school zones shall conform to the Manual on Uniform Traffic Control Devices.”



DEFINITION OF A SCHOOL

Minnesota Statute [120A.05](#) provides various definitions of schools such as elementary, middle and secondary schools, as well as school districts. The guidance in this document specifically applies to schools as defined by Statute 120A.05.

BACKGROUND

Because the current statute on SZSLs leaves a large range of possible speeds, the Minnesota Department of Transportation (MnDOT) has developed this guide to assist in selecting an appropriate SZSL based on school zone characteristics and best practices. This document also provides guidance on the recommended elements of an engineering and traffic (E&T) investigation and when an E&T investigation is required. Regardless of the content put forth in this guide, all SZSLs must continue to comply with current state statutes at the time of installation. The user of this guide is responsible for reviewing and complying with current statutes at the time of use.

Changes to the MN MUTCD

The previous guide completed in 2012 was embedded within the MN MUTCD. In revision 10 of the MN MUTCD, the text was changed from a Standard statement to a Support statement. “A Guide to Establishing Speed Limits in School Zones-2011” was removed from Chapter 7E, Speed Limits in School Zones, but the guide is still referenced in the Section 7E.1. This guide replaces the 2012 guide as the “engineering and traffic investigation as prescribed by the Commissioner of Transportation” in Minnesota Statute 169.14 subd 5a.



BACKGROUND

RESEARCH

To ensure that the contents within this guide align with current best practices for SZSLs, a variety of research was conducted. The primary research for this guide has been published by MnDOT as Transportation Research Synthesis (TRS) number 2301³ and the key findings are summarized below. Additional resources reviewed and summarized include the 2022 update to the National Roadway Safety Strategy. In addition to the research, a Project Advisory Committee (PAC) provided expert guidance and feedback throughout the completion of this guide. Information on the PAC can be found in Appendix F.

School Zone Speed Limits (SZSLs) Transportation Research Synthesis (TRS2301)

The following summarizes the objectives and findings of the School Zone Speed Limits TRS published by MnDOT in January of 2023.

Research Objectives:

- To provide a summary of current research on the effectiveness of SZSLs in reducing vehicle speeds and the severity and frequency of crashes, particularly for vulnerable roadway users.
- A summary of current state statutes and guidance on SZSLs and additional resources on countermeasures for traffic calming and safety.

Key Findings:

Policy Findings:

- The majority of states (36) use a statute to define a SZSL, with over half of those states having a statutory SZSL set at 15, 20 or 25 mph.
- Many states allow jurisdictions to lower SZSLs below the statutory SZSL based on an engineering and traffic study.
- Minnesota statute allows for a larger range in SZSLs than most states.

3. [MnDOT TRS2301](#) – School Zone Speed Limits (SZSLs): Effectiveness of SZSLs in reducing vehicle speeds, crash severity and crash frequency



Speed and Crash Reductions Findings:

- SZSLs are overall effective at reducing speeds and improving safety, but the extent of their impact is often limited and dependent on additional countermeasures such as the use of flashing beacons, differences in roadway geometry, etc.
- Speed differentials (the difference between the existing speed limit and the SZSL) should be limited to 5-10 mph, with no more than 15 mph without the use of speed limit buffers zones⁴.
- Additional countermeasures such as geometric changes to the roadway and flashing beacons, combined with SZSLs, have shown to result in a greater level of speed reduction.
- Properly set SZSLs appear to have limited to no unintended consequences⁵. Further information can be found in MnDOT TRS 2301.

Note: The findings are primarily applicable to lower speed limit settings. The available research on SZSLs on higher speed limit roadways is limited.

4. [Fitzpatrick, K., Brewer, M., Obeng-Boampong, K., Eun Sug, P., & Trout, N. \(2009\). Speeds in school zones \(No. FHWA/TX-09/0-5470-1\). Texas Transportation Institute.](#)

5. Unintended consequences would be findings such as increased vehicle speed, increase crash rates or lengthening of speed distribution curves.

BACKGROUND

Trends and Policies

The relationship between vehicle speed and the safety of vulnerable roadway users has been well documented both nationally and internationally. Vehicle speeds impact the amount of time needed to come to a complete stop⁶ as well as the likelihood of a pedestrian being killed if hit by a motorist⁷. Reduction of vehicle speeds on local roads are a top priority at the national, state and local levels to reduce severe injury and fatal crashes for vulnerable users.

6. "Reduced speeds allow motorists more time to avoid collisions. A motor vehicle traveling at 50 mph requires 424 feet to come to a complete stop, while a vehicle traveling at 25 mph requires only 152 feet." Slowing Down Traffic, Nat'l Ctr. For Safe Routes to School, http://guide.saferoutesinfo.org/engineering/slowing_down_traffic.cfm.

7. "A pedestrian hit by a vehicle traveling at 40 mph has an 85% likelihood of being killed, whereas the likelihood of death for a pedestrian hit by a vehicle traveling at 20 mph is only 5%." Safe Routes to Schools Guide, Nat'l Ctr. For Safe Routes to School (2011), 3-63, available at <http://guide.saferoutesinfo.org/pdf/SRTS-Guide-full.pdf>.

National Roadway Safety Strategy

In 2022, the United States Department of Transportation (US DOT) officially adopted the Safe System approach as it's National Roadway Safety Strategy. At the core of this strategy is a department-wide adoption of a comprehensive Safe System approach, which focuses on five key objectives: safer people, safer roads, safer vehicles, safer speeds, and post-crash care. A Safe System approach to safer speeds leverages road design and other infrastructure interventions, speed limit setting, education, and enforcement. Based on the guidance from the US DOT, speed limits should be set to provide a safe, consistent, and reasonable speed to protect drivers, other people in motor vehicles, and people walking, biking, and rolling along the roadway⁸.

8. [USDOT National Roadway Safety Strategy](#)

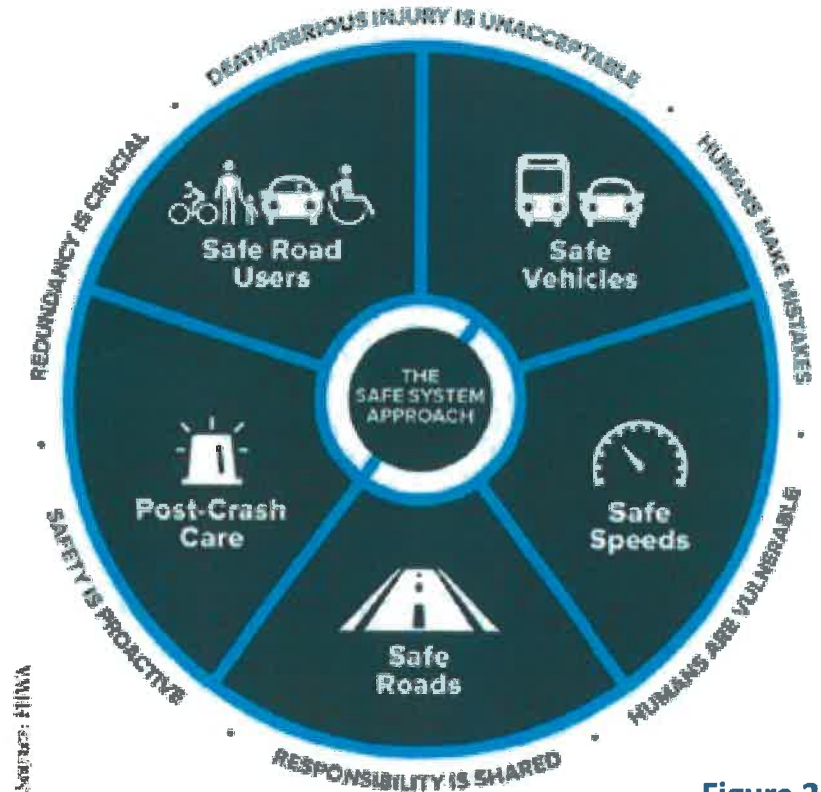


BACKGROUND

Other organizations or plans that emphasize the importance of managing speeds to improve safety include, but are not limited to: Vision Zero Network, US DOT's Safe Routes to School Programs, MinnesotaGO, Minnesota Statewide Speed Limit Vision and Toward Zero Deaths.



Cities across the country have begun to adopt 20 mph city-wide speed limits on local roads to set speed limits that prioritize the safety of the most vulnerable users and align with Safe System guidance.



**Figure 2 -
Safe System approach**
(Source: US DOT's National
Roadway Safety Strategy)

Minnesota Statewide Speed Limit Vision

In December of 2020, MnDOT adopted the following Minnesota Statewide Speed Limit Vision which states that: "Speed limits are set with an emphasis on all users with key influences of safety, engineering and surrounding land use. The vision is guided by three core values."

"Speed limits are:

- Affected by community context, land use, and road design
- Governed by voluntary compliance through education and accepted social norms
- Established through consistent technical evaluation and applied equitably across all communities."

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PROCESS FOR ESTABLISHING A SZSL



CHAPTER 2 - PROCESS FOR ESTABLISHING A SCHOOL ZONE SPEED LIMIT (SZSL)

Based on the research finding from the previous section, SZSLs are safe and appropriate countermeasures to be considered by road authorities for reducing speeds and improving safety near schools.

As also previously stated, **SZSLs are just one aspect of school zone safety and a full SRTS plan is always recommended as a best practice for transportation safety planning around a school.**

If a SZSL is desired, this chapter provides the five-step process for selecting and implementing a new SZSL. This section may also be used to evaluate and update an existing SZSL to meet best practices.



STEP 1: Establish or review a School Route Plan and crash history



STEP 2: Select an appropriate SZSL using the guidance chart (Figure A)



STEP 3: Identify if an engineering and traffic (E&T) investigation is needed and if additional safety and speed management countermeasures should be considered



STEP 4: Design the school zone



STEP 5: Implementation

PROCESS FOR ESTABLISHING A SZSL



STEP 1: ESTABLISH/REVIEW SCHOOL ROUTE PLAN AND CRASH HISTORY

The first step in the process is identifying the location of the school zone and reviewing a three to five-year crash history for the location in question. Steps two through five will help identify an appropriate SZSL, determine whether a full engineering and traffic (E&T) investigation is required, and aid in the design and implementation process.

1.1 School Route Plan

A School Route Plan, not to be confused with a SRTS Plan, is a simple map that shows the locations where students typically cross to get to school when walking, biking or rolling. Coordination with school

administration and road authority is recommended to ensure that school zones are placed in the best locations. School routes and the school route plan are described in more detail in Section 7A.2 of the Minnesota Manual on Uniform Traffic Control Devices. Additional School Route Plan examples from the Dakota County School Safety Assessment and Minnesota SRTS information can be found in Appendix C of this guide.

1.2 Crash History

A crash history should be obtained for all potential SZSL locations to understand any existing safety issues that are present. This information will be used in Step 2 to identify if a full E&T investigation is required and if additional countermeasures should be considered. Under certain situations, (outlined in Step 2) a full E&T investigation may not be necessary before implementing a SZSL.

STEP 1 CHECK-LIST

1.1 Establishing a School Route Plan:

If a School Route Plan or full SRTS plan **already exists**:

- ☐ Review route plan to identify all crossings or access locations that students use to walk, bike or roll to school.
- ☐ Identify preliminary location for school zone.
 - School Name: _____
 - Grades: _____
 - Existing speed limit = _____ mph
 - Existing speed management countermeasures: _____

If a School Route Plan **does not exist** or is outdated:

- ☐ Identify all crossings or access locations that students use to walk, bike or roll to school (see Appendix C for a sample map).

- ☐ Identify preliminary location for school zone.

- School Name: _____
- Grades: _____
- Existing speed limit = _____ mph
- Existing speed management countermeasures: _____

1.2 Crash History

Does the obtained crash history show existing safety issues in the proposed school zone (particularly pedestrian or bicyclist involved crashes)?

- ☐ **Yes** ☐ **No**

(Note: A review of the most recent three to five years of crash data is recommended for the entire area under consideration for a school zone speed limit)

PROCESS FOR ESTABLISHING A SZSL



STEP 2: SELECT AN APPROPRIATE SCHOOL ZONE SPEED LIMIT

This section guides the selection of an appropriate SZSL, whether or not an E&T investigation is required, and if additional speed management countermeasures are recommended to improve driver speed compliance. The SZSL guidance is based on four elements that were identified during the research process (described in Chapter 1) as well as guidance from the Project Advisory Committee¹. The elements that impact the effectiveness of SZSLs for reducing speeds and improving safety include:

- Selecting a SZSL that reduces severe injury and fatal crashes for vulnerable users.
- Minimizing the speed differential (5-10 mph preferred, not to exceed 15 mph).
- Using a SZSL buffer zone (a zone with an intermediate SZSL between higher and lower speed zones) or advance warning signage on high-speed roadways when the speed differential exceeds 15 mph.
- Redundancy with countermeasures to improve compliance and safety (such as changes in roadway geometry and enhanced signing).

Figure A is designed to provide recommendations for a range of appropriate SZSLs based on existing speed limits, state statutes and the four items listed above. Based on the desired SZSL, one of three conditions apply.

¹ A Project Advisory Committee (PAC) provided feedback throughout the development of this guide. Information on the PAC can be found in Appendix F.

Condition 1

SZSLs that fall within Condition 1 satisfy best practices for both lowering the SZSL and reducing the speed differential. This group has an existing speed limit of 30 mph or less and a speed differential of 10 mph or less. This group does not require an E&T investigation and may skip Step 3.

Condition 2

SZSLs that fall within Condition 2 have existing speed limits of 30 to 50 mph and keep the speed differential to 10 mph or less. SZSLs that fall within this group require an E&T investigation because they are not able to reduce the SZSL to 20 mph and keep a 10 mph or less differential.

Condition 3

SZSLs that fall within Condition 3 have a speed differential greater than 15 mph and are typically on higher speed roadways. This group of SZSLs require an E&T investigation in addition to the recommended use of SZSL buffer zone or advance warning signage. Further definition and guidance on SZSL buffer zones is provided in Step 4.

PROCESS FOR ESTABLISHING A SZSL

STEP 2 CHECK-LIST

2.1 Selected School Zone Speed Limit

The selected SZSL is ____ mph

Complying with current state statutes

All SZSLs must continue to adhere to state statute regardless of the content posted within this document. The information below summarizes the existing Minnesota state statute [Statute 169.14.5a.(a)] for SZSLs at the time this document was published. The user of this document is responsible for reviewing and complying with current statutes at the time of use.

- ☐ The selected SZSL is not lower than 15 mph (additionally, MnDOT prohibits lower than 20 mph SZSLs on trunk highways)

AND

- ☐ The selected SZSL is not more than 30 mph below the existing speed limit

2.2 Identify if any additional requirements apply to your location:

Using Figure A, which Condition box applies to the selected SZSL?

- ☐ Condition 1
- ☐ Condition 2
- ☐ Condition 3

Is a SZSL buffer zone or advance warning signing recommended?

- ☐ Yes (Step 4 provides further guidance)
- ☐ No

Is a full Engineering and Traffic investigation required?

- ☐ Yes
- ☐ No (Skip Step 3, the Engineering and Traffic investigation, and proceed to Step 4)

Should additional countermeasures be considered?

- ☐ Yes (Chapter 3 provides resources on speed management countermeasures)
- ☐ No

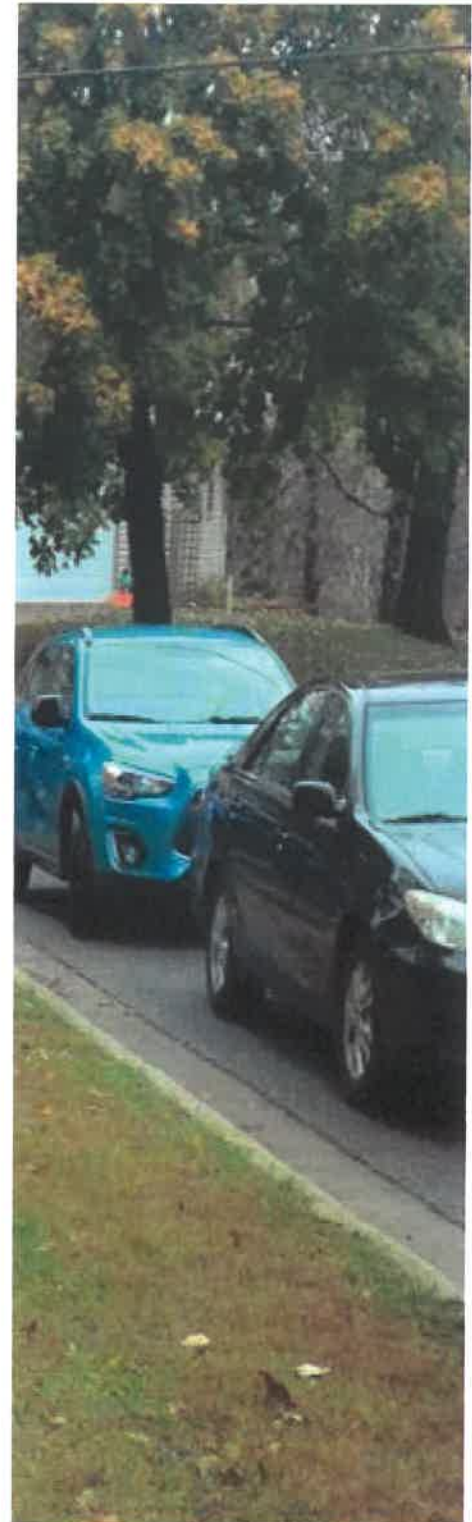
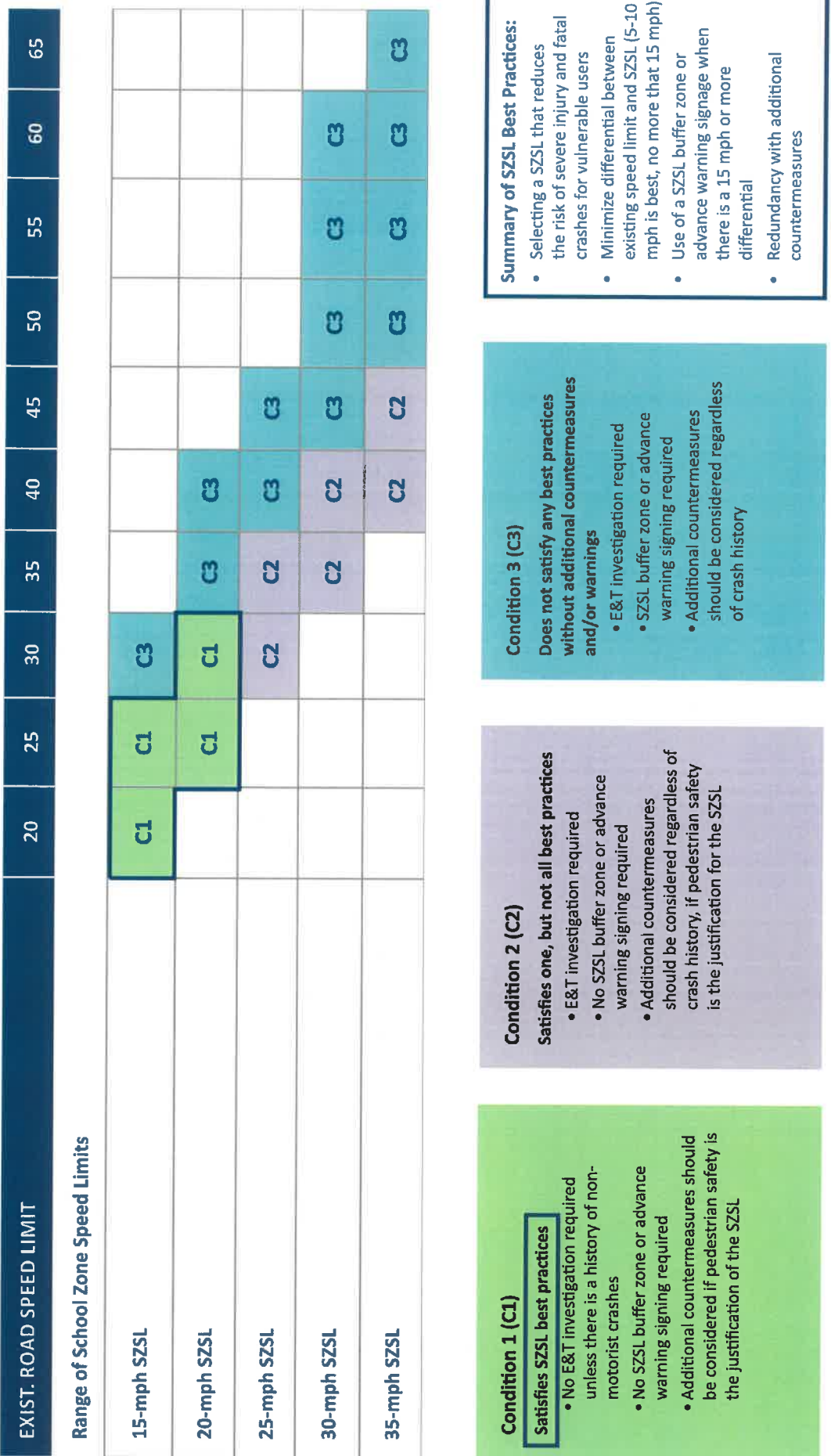


Figure A – Appropriate SZSL ranges and requirements based on MN State Statute 169.14.5a and MnDOT identified best practices



PROCESS FOR ESTABLISHING A SZSL



STEP 3: ENGINEERING AND TRAFFIC INVESTIGATION

Based on findings of how other states approach and implement SZSLs and research findings of no measurable unintended consequences from implementing SZSLs, an E&T investigation may sometimes be necessary to implement a SZSL.

Conditions 2 and 3 of Figure A require an E&T investigation because they do not meet all best practices. The information collected and reviewed during an E&T investigation is meant to help identify additional safety and speed management countermeasures outlined in Chapter 3.

The following elements are recommended as part of an E&T investigation. Further definitions and guidance can be found in Appendix A.

Sample Engineering and Traffic Investigation Elements

- Roadway geometry
- Traffic volume
- Pedestrian volume
- Parking
- Traffic control devices
- Sidewalks
- Fencing
- Crash history
- Speed study
- Land use and pedestrian generators
- Obstructions and vegetation

Other considerations

- Roadway classification
 - Intersection spacing
 - Driveway density
- Roadway owner
- Student enrollment/mode of transportation used

PROCESS FOR ESTABLISHING A SZSL



STEP 4: DESIGN THE SCHOOL ZONE

In addition to the SZSL, where and how the speed limit signs are placed can impact driver compliance. The following section outlines recommendations for location and length of school zones, indicating hours of operation, whether or not a SZSL buffer zone or advance warning signage are recommended on high-speed roadways, and signing allowed under the MN MUTCD.

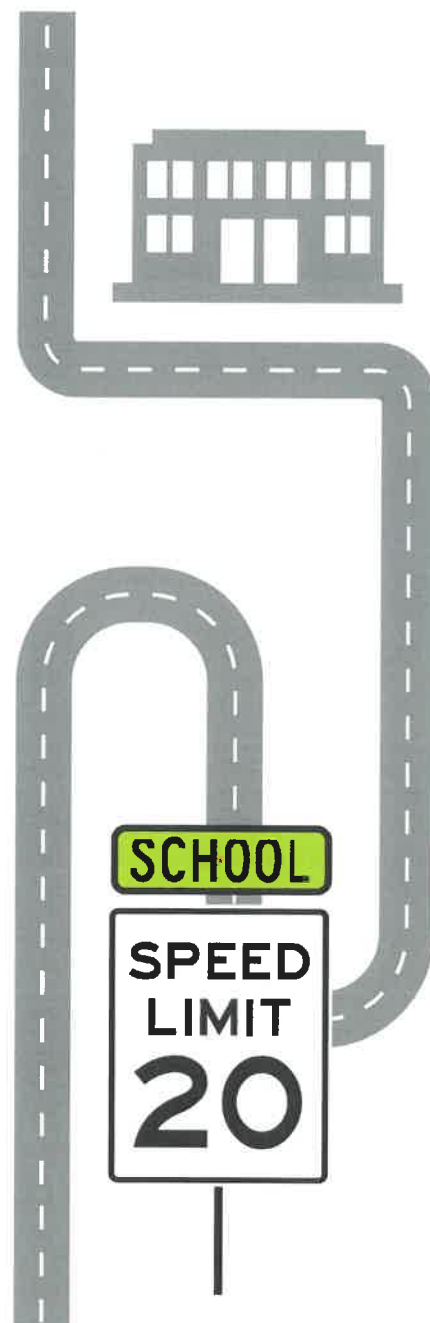
Location and length of School Zone

The placement and length of the school zone impacts driver compliance. The following summarizes best practices for SZSL signing placement.

- **Length of School Zone:** Research has shown that speeds are approximately 1 mph higher for every 500 ft. driven within a school zone; therefore, longer school zones are associated with greater speed variability and lower speed compliance².
- **Beginning of School Zone:** The *Minnesota Manual on Uniform Traffic Control Devices* (MN MUTCD) states that “The beginning point of a reduced school speed limit zone should be at least 200 feet in advance of a school crossing, or other school related activities; however, this 200-foot distance should be increased if the reduced school speed limit is 30 mph or higher.” The federal MUTCD provides further guidance stating “300 ft with a 30 mph SZSL and 400 ft with a 35 mph SZSL”.

Safe Routes to School Guidance³ from the National Center for Safe Routes to School identifies the following recommendations for SZSL sign placement.

- The location of the beginning and end of a school speed limit zone should be based on engineering judgment rather than the exact location of the school property line or fence.
- The school speed limit zone should be centered at the location(s) where students cross the roadway.
- The beginning and ending points should be selected with appropriate consideration for the location of other traffic control devices and/or features [such as visual clutter and vegetation] that could affect the implementation [or effectiveness] of the school zone speed limit.



² Fitzpatrick, K., M.A. Brewer, K.O. Obeng-Boampong, E. Park., and N.D. Trout. Speeds in School Zones. Report No. 0-5470-1. College Station, TX, USA: Texas A&M Transportation Institute, 2009.

³ Reduced School Area Speed Limits, Safe Routes to School Brief Sheet, ITE

PROCESS FOR ESTABLISHING A SZSL

Hours of operation

Minnesota Statutes, Section 169.14.5a.(a), states that “such school speed limits shall be in effect when children are present, going to or leaving school during opening or closing hours or during school recess periods.” It is up to the roadway authority to determine what signing type will be used to communicate hours of enforcement.

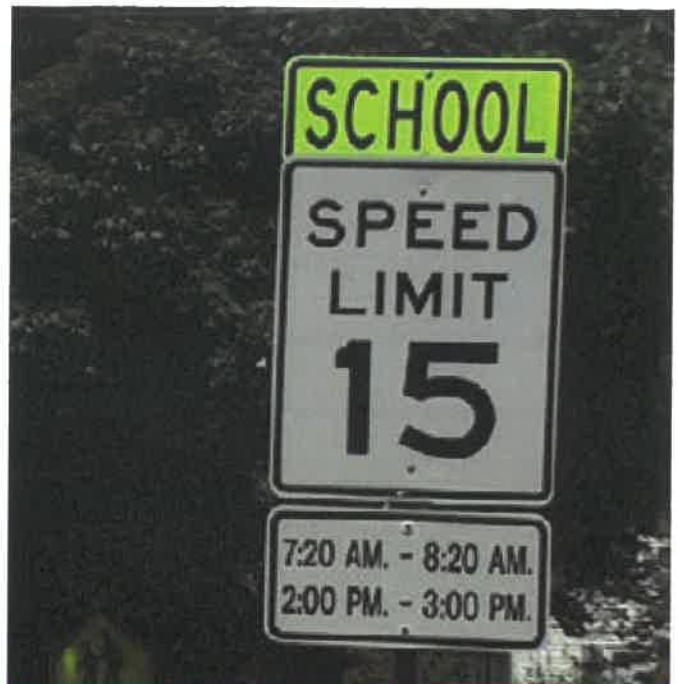
When a SZSL should be enforced is often cited by law enforcement as a challenge in the field, particularly when SZSLs are paired with “when children are present” signing. The use of flashing beacons (whether activated by school administration, by push button, or by timer) when paired with signing such as “when flashing” can help to clarify when the SZSL should be enforced. Additionally, coordination with local law enforcement may help the roadway authority better understand what works best in their community.

Signing and equipment

MN MUTCD

Part 7 of the MN MUTCD outlines the traffic control devices for school areas. All traffic control devices must conform to the requirements of the current Minnesota Manual on Uniform Traffic Control Devices (MN MUTCD). Attached as Appendix B is signing guidance related to SZSLs.

Mounting heights and visibility should be adjusted based on engineering judgement to ensure visibility by motorists. Signs hidden by vegetation or poles should be made visible. The sign placement and panel sizes need to be MN MUTCD compliant. Pavement markings and signs should be replaced if they no longer meet Mn MUTCD standards. Once the route plan has been developed, locations needing new or additional controls can be identified.



Small text such as the hours of enforcement in the photo above may be too small and could easily be missed by motorists.

Additional Controls

In addition to the SZSL signs outlined in the MN MUTCD, other traffic control devices and markings may be used in school zones to communicate with motorists that a reduced speed is required. Some of these common traffic control strategies include:

- Overhead school flasher speed limit sign
- Changeable message sign
- Speed feedback sign or flashing speed signs
- School advance warning and crosswalk signs
- Pavement markings
- Left/right turn restrictions

Many of the sources listed in Table 3.1 of Chapter 3 provide additional information on the traffic control devices and markings listed above.

PROCESS FOR ESTABLISHING A SZSL

SZSL buffer zone and advance warning signs

With the importance of maintaining smaller speed differentials (15 mph or less) and minimizing the SZSL (≤ 35 mph), high-speed roadways may require additional measures to reduce speed limits and driver speeds. Section 7B.16 of the MN MUTCD states that “a Reduced School Speed Limit Ahead (S4-5 or S4-5a) sign should be used to inform road users of a reduced speed zone when the speed limit is being reduced by more than 10 mph or when engineering judgement indicates”.

The Texas Department of Transportation (TxDOT) uses a buffered SZSL approach to step down to the desired SZSL closest to the school. This approach has not been widely applied or studied in Minnesota but may provide an opportunity to slow speeds on high-speed roadways when grade-separated crossings are not an option. Appendix E provides a sample application on a 60 mph roadway based on the Texas approach⁴. Roadway authorities interested in this approach are encouraged to reach out to the [District Traffic Engineer](#) at MnDOT for further guidance on implementation and evaluation.

Figure 3 – Reduced School Speed Limit Ahead Sign (S4-5, S4-5a), Source MN MUTCD



Figure 4 - SZSL buffer zone signs used on a 70 mph roadway by the TxDOT.



⁴ FHWA/TX-09/TTI 0-5470-1 Report

Excerpt from the Texas Guidelines for Traffic Control for School Areas:

“Any roadway with an 85th percentile speed greater than 55 mph is to have a buffer zone to transition to a 35-mph school speed limit. Buffer zones permit motorists to travel at the higher posted speeds through both zones when slower speeds are not necessary. An example of a buffer zone is where the regulatory posted speed limit is 70 mph and the school speed limit is 35 mph. In this case a buffer zone of 55 mph can be used on the approach and departure sides of the 35-mph school speed limit zone.” (see Figure 4)

“The basic design for a Buffer School Zone (S5-1) sign is the same as for a regular School Speed Limit (S5-1) sign. The SCHOOL SPEED LIMIT XX WHEN FLASHING sign should be used where TxDOT is responsible for signing school speed limit zones and school buffer zones. The buffer zone beacons can be activated up to 5 minutes earlier than the school speed limit zone to eliminate drivers who pass through the buffer zone while it is inactive seeing active beacons only in the lower speed zone.”

PROCESS FOR ESTABLISHING A SZSL



STEP 5: IMPLEMENTATION

Recording and Reporting

As stated previously, the SZSL process set forth in this document constitutes the “engineering and traffic investigation as prescribed by the commissioner of transportation” under Minnesota Statute 169.14 subd 5a.(a). While it’s not a requirement to record and report the process completed in this document to MnDOT, it’s recommended that record of this process be completed and retained by the roadway authority. Reporting of this information to MnDOT is voluntary and will be used to help track and evaluate how school zone speed limits are being applied throughout the state.

Appendix D has been provided as a user-friendly reporting worksheet to keep for internal recording and/or to be sent to MnDOT for data collection. It is recommended that the reporting worksheet be signed by a duly certified professional engineer licensed in the State of Minnesota since SZSLs impact the health, safety, and welfare of the general public.

Additional recording and reporting steps are recommended, but not required to satisfy the E&T investigation as prescribed by state statute. These may include updating GIS files and tracking documents such as speed limit and signing databases to reflect changes.

Education and Enforcement

Education and enforcement can help enhance driver awareness and compliance and requires minimal budget. A public education campaign using school newspapers, parent bulletins and local news outlets can help build awareness and understanding for the importance of traffic calming near schools. Coordination with law enforcement to enforce the new SZSL is also important to the overall effectiveness of the posted SZSL.

Evaluation

While evaluation is not a required step to satisfy the engineering and traffic investigation as prescribed by the commissioner of transportation, it is recommended to understand the effectiveness of the SZSL. Suggested evaluation includes:

- Completion of a before-and-after speed study to evaluate the effectiveness of the SZSL (with voluntary reporting to MnDOT)
- A three or five-year review of crash history post implementation to evaluate the effectiveness of the SZSL (with voluntary reporting to MnDOT)



**EDUCATION AND
ENFORCEMENT ARE
COST EFFECTIVE WAYS TO
IMPROVE COMPLIANCE**

PROCESS FOR ESTABLISHING A SZSL



Implementation

Once issues have been identified and additional countermeasures selected, an implementation and funding plan is recommended to assist with follow through. When possible, this process should involve multiple stakeholder agencies such as the roadway authority, city, county or state officials, public safety, and school administrators to encourage follow through and funding acquisition. The reporting worksheet in Appendix D provides a location to document selected complementary countermeasures to improve compliance for SZSLs and lobby for funding. When necessary, temporary installations such as SRTS demonstration projects can provide short term solutions while additional countermeasures are being funded and constructed.



COMPLEMENTARY COUNTERMEASURES

CHAPTER 3 - COMPLEMENTARY COUNTERMEASURES

Chapter 2 outlined the process for setting and implementing a SZSL, but as noted previously, a comprehensive Safe System approach is multifaceted and redundant. Additional safety and speed management countermeasures to complement a SZSL can improve compliance of a SZSL and further improve safety in and around a school zone. These

countermeasures typically fall within the “Engineering” section of a SRTS plan or the “Safer Roads” section of a Safe Systems approach. Example countermeasures include elements such as geometric changes to the roadway (bump outs, speed tables, center pedestrian refuge islands, etc) and enhanced signing such as flashing beacons and speed feedback signs.

Table 3.1 provides resources specific to Speed Management Countermeasures and Safe Routes to School best practices.

Table 3.1 – Resources for speed management countermeasures and SRTS best practices

| DOCUMENT | YEAR | SUMMARY OF RESOURCE |
|---|------|---|
| FHWA Proven Safety Countermeasures website | — | https://highways.dot.gov/safety/proven-safety-countermeasures |
| Engineering Speed Management Countermeasures (FHWA-SA-14-101) | 2014 | Summarizes various speed reduction countermeasure, research findings and anticipated reduction in mean and 85th percentile speeds. |
| Mn Safe Routes to School Resource Index | — | Resource for facility design and other state guidance |
| Noteworthy Speed Management Practices (FHWA-SA-20-047) | 2020 | Information for practitioners covering eight case studies highlighting speed management practices. |
| NCHRP Synthesis 535: Pedestrian Safety Relative to Traffic-Speed Management | 2019 | Documents known strategies and countermeasures in confined, urban cities for pedestrian safety. |
| Minnesota’s Best Practices for Pedestrian and Bicycle Safety | 2021 | Provides a mix of treatments that are considered proven strategies, along with emerging treatments that are considered experimental. |
| MnDOT Speed Safety Cameras TRS | 2022 | Literature review of before-and-after evaluations of Speed Safety Cameras. |
| Dakota County School Travel Safety Assessment | 2021 | Recommends improvements based on safety benefits relative to cost of the treatment. |
| FHWA Safe Transportation for Every Pedestrian (STEP) | — | A guide to help agencies select pedestrian crash countermeasures at uncontrolled intersections. |
| FHWA Traffic Calming ePrimer Toolbox | — | Descriptions, applicability, key effects and issues, and design considerations for traffic calming. |
| Methods and Practices for Setting Speed Limits (FHWA-SA-12-004) | 2004 | Best practices for location and signing for school zone speed limit, and advance warning assembly recommendations. |

COMPLEMENTARY COUNTERMEASURES

Speed Safety Cameras

A Speed Safety Cameras (SSCs) TRS¹ was completed in 2022 to provide a summary of current research on the effectiveness of SSCs, also referred to as Automated Speed Enforcement (ASE). Three US programs were identified that evaluated the use of SSCs within school zones.

All three studies evaluated the impact of SSCs on driver speeds within school zones. Findings indicate that SSCs within school zones are effective at reducing mean vehicle speeds and threshold speeding². The combination of SSCs and flashing beacons within a school zone provided added speed reduction benefits.

One study out of New York City evaluated the effect of SSCs on injury and fatal crashes within school zones³. Results from the study showed that SSCs within school zones resulted in a reduction in crashes, particularly those resulting in fatality.

Based on these findings and the 2021 addition of SSCs as a proven safety countermeasure by the Federal Highway Administration⁴ (FHWA), it was determined that SSCs were an appropriate countermeasure to pair with SZSLs to improve speed compliance within school zones.

As of the publication date of this document, SSCs are not allowed under Minnesota law. Enabling legislation outlined in the TRS report would be needed before SSCs could be lawfully used within the state.

1 [MnDOT TRS2303 – Speed Safety Cameras](#)

2 Threshold speeding refers to motorists driving above the posted speed limit by a certain amount at which point the SSCs would issue a citation. Typically, the threshold speed for issuing a citation is speeds of greater than 10 mph, however, thresholds of greater than 5 mph have also been used on lower speed limit roadways.

3 All school zones included in the NYC SSC study had speed limits of 35 mph or less. [New York City DOT. \(2014-2017\). Automated speed enforcement program report. New York City: NYC DOT.](#)

4 [FHWA-SA-21-070. \(2021\). Proven safety countermeasures, Speed Safety Cameras. US Department of Transportation, Washington DC.](#)

Houston County Agenda Request Form

Date Submitted: April 30, 2024 Board Date: May 7, 2024

Person requesting appointment with County Board: Brian Pogodzinski

Issue:

Board approval needed to accept the scope of work to conduct an aeronautical survey for the RNAV approach.

Attachments/Documentation for the Board's Review:

Scope of work documents from Bolten and Menk.

Justification:

Action Requested:

Approve Work Order #4.

| For County Use Only | | | |
|-------------------------------|--|---|--|
| Reviewed by: | <u> </u> County Auditor | <u> </u> County Attorney | <u> </u> Zoning Administrator |
| | <u> </u> Finance Director | <u> </u> County Engineer | <u> </u> Environmental Services |
| | <u> </u> IS Director | <u> </u> Other (indicate dept) | <u> </u> |
| <u>Recommendation:</u> | | | |
| <u>Decision:</u> | | | |

All agenda request forms must be submitted to Allison Wagner at BOC@co.houston.mn.us by 12:00 p.m. on Thursday in order to be considered for inclusion on the following week's agenda. The Board will review all requests and determine if the request will be heard at a County Board meeting.



Real People. Real Solutions.

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Ramsey, MN 55303-5119

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Fax: (763) 427-0833
Bolton-Menk.com

April 30, 2024

Mr. Brian Pogodzinski, P.E.
County Engineer
Houston County
1124 East Washington Street
Caledonia, MN 55921

RE: Houston County Airport (CHU)
AGIS Airport Airspace Analysis (AAA)
BMI Work Order #4
Proposal for Professional Services

Dear Ms. Pogodzinski,

The Houston County Airport desires an instrument approach to Runway 13/31. Runway 13/31 previously had an instrument approach, but it was terminated by the FAA due to unmitigated obstacles to Federal Aviation Regulation (FAR) Part 77 airspace surfaces. For the FAA to design a new approach to Runway 13/31, an Airport Geographic Information System (AGIS) Airport Airspace Analysis (AAA) survey is required. The AGIS AAA survey will collect all safety-critical data identified in *FAA Advisory Circular 150/5300-18B General Guidance and Specifications for Submission of Aeronautical Surveys to NGS: Field Data Collection and Geographic Information System (GIS) Standards* to allow FAA to design the new instrument approach.

The proposal for services includes the following tasks:

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Bolton & Menk, Inc. (BMI) will coordinate with Houston County and FAA to develop the appropriate work scope, define tasks, lines of communication and establish project goals, objectives, or areas of interest. Project fees will be prepared using the final Proposal. An agreement will be developed from the Final Proposal and approved fees. The agreement will be provided to FAA for review and approval prior to a contract being executed. This task includes one (1) project scoping meeting with the County and FAA.

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Up to three (3) meetings with the County and FAA are included. It is anticipated the meetings will take place virtually and may cover the following topics or decision points:

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2. Safety-Critical Data Collection Review
3. Final AGIS AAA Report Submittal Review

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Name: Houston County Airport: AGIS Airport Airspace Analysis (AAA)
Date: April 30, 2024
Page: 5 of 5

- *Sheet 13 Airport Property Data Tables Exhibit "A"* will be renumbered to Sheet 12 Airport Property Data Tables Exhibit "A". Changes will be documented with dates in the revision block.

Consideration

The services described in this proposal shall be assessed on a lump sum basis of **\$ 94,000.00.**

- FAA Share 90% \$ 84,600.00
- State Share 5% \$ 4,700.00
- County Share 5% \$ 4,700.00

Bolton & Menk, Inc. puts a high priority on ensuring that our company's efforts are consistent with our clients' needs. If you find this proposal acceptable, please return to me a signed and dated copy of this document.

Bolton & Menk, Inc.



Silas Parmar, P.E.

Aviation Project Manager

Authorization and acceptance of this letter proposal.

Houston County, Minnesota

By:

Mr. Brian Pogodzinski
County Engineer

Date

February 2, 2024

Christopher M Gardner
Bolton & Menk, Inc.
12224 Nicollet Ave
Burnsville, MN 55337

Project: 040855 | Aeronautical Obstruction Survey – Houston County Airport (CHU)

Dear Mr. Gardner,

This summary of work describes our understanding of the scope of work and services required for an aeronautical obstruction survey at the Houston County Airport (CHU) located in Caledonia, MN. The project will be done in compliance with Airports GIS Program policies and will include an airport airspace analysis for vertically guided operations for existing Runway 13/31. The Advisory Circulars identified below detail the data collection requirements and accuracies for the project and the verification process by the Federal Aviation Administration (FAA) and the National Geodetic Survey (NGS).

- AC 150/5300-16B “General Guidance and Specifications for Aeronautical Surveys: Establishment of Geodetic Control and Submission to the National Geodetic Survey”
- AC 150/5300-17C, Change 1 “Standards for Using Remote Sensing Technologies in Airport Surveys”
- AC 150/5300-18B, Change 1 “General Guidance and Specifications for Submission of Aeronautical Surveys to NGS: Airport Survey Data Collection and Geographic Information System (GIS) Standards”

Summary of Work

We understand that the purpose of this project is to accomplish an FAA Airport Airspace Analysis Survey for all surfaces defined in FAA Advisory Circular 150/5300 - 18B: 2.7.1.1 Runways with Vertical Guidance.

In addition, and per FAA Policy Guidance issued 9/22/22, we will be reviewing the existing Obstacle Authoritative Source (OAS) obstacle data (11 existing objects in OAS within 18B surfaces) and potentially removing obstacles as a part of this project. Any obstacle removals will be completed by NV5 Geospatial using the FAA's Runway Airspace Management tool.

For this project, we will acquire new vertical stereo digital imagery at a physical image scale of 1"=3,846' of the obstruction surface areas and 1"=1,923' of the VGPS surfaces area. The aerial imagery will cover all of the VG Airspace Analysis surfaces using a Digital Mapping Camera III (DMC-III) camera system, or comparable, during leaf-on conditions.

From the 1"=3,846' imagery, we will produce the following:

- Limited landmark feature planimetric mapping
- Color digital orthophotos with a 1.0' pixel resolution
- Identification and mapping of obstruction obstacles for all of the VG surfaces

From the 1"=1,923' imagery, we will produce the following:

- Identification and mapping of obstruction obstacles for the VGRPS, VGPCS, and VGPS surfaces

Quality Standards

The project has been designed to conform to the National Map Accuracy Standards for limited landmark planimetric feature collection and twelve inch orthophoto production. In addition, we ensure that the photogrammetric mapping will meet all FAA and NGS standards. We will exercise reasonable care and will conform to the standards of practice ordinarily used by the photogrammetric profession.

Project Area

The project area encompasses all of Houston County Airport (CHU) inclusive of the obstruction surfaces as defined in the attached exhibits.

Control Surveying

The aerial photography will be completed with ABGPS control which will be used for the base control for the geo-referencing of the aerial imagery. NV5 Geospatial will process the ABGPS data using COR stations and reference it to the project control datums:

Horizontal: North American Datum of 1983/2011 (NAD 83(2011)), in the MN State Plane Coordinate System, South Zone, US survey feet.

Vertical: North American Vertical Datum of 1988 (NAVD 88)

Bolton & Menk will complete all of the remaining on-site ground control surveys, including:

- Geodetic control validation of the existing airport PACS and SACS stations or establish temporary airport control according to the guidelines established in AC 150/5300-16B
- Establishing all necessary photo-identifiable ground control and FAA mandated check-points required to validate the ABGPS and IMU control.
- Collection of the airport runway end positions
- Collection of vertical profile for runway
- Collection of the position, elevation, and where required the appropriate navigational aid perpendicular point of all electronic and visual navigational aids (NAVAIDS) located on the airport and associated with any current instrument approach servicing the airport
- All other tasks, not specifically listed above, as outlined in FAA AC-18B, Table 2-1 "Survey Requirements Matrix" for Instrument Procedure Development.
- Final Survey Report

Orthophoto Mapping

We will use the control solution and imagery to generate a Digital Elevation Model (DEM) of the VG surfaces. The imagery will be processed into color digital orthophotos using the aforementioned DEM to rectify the images. Orthophotos for the entire project area will be developed with a 1.0' pixel resolution. Orthos will be delivered in a GeoTIFF file format.

18B Obstruction Surveys

The Obstructions Surfaces to be uploaded to ADIP will satisfy the requirements of AC 150/5300-18B:

- 2.7.1.2 Analysis of Existing Runway 13/31 with Vertically Guided Operations
(Surfaces include the VGRPS, VGPCS, VGAS, VGPS, VGATS, VGHS and VGCS)

The specific types and quantities of obstructions for each surface are outlined and clearly defined for the particular surface in each circular section. Any obstructions that meet the requirement of the circular, but are of a nature that elevations at the highest point of the obstruction are virtually impossible to read through photogrammetric methods (cell tower, electrical tower, etc.), will be identified and relayed to the surveyor to initiate field surveyed elevations for the obstruction.

The obstruction delivery will include the limited landmark planimetric feature collection.

The final data will be uploaded to ADIP in ESRI Shapefile format.

Production Schedule

We will work with you to finalize a mutually agreeable schedule for the project. We will make a reasonable effort to maintain the agreed-upon schedule. However, should the project be interrupted by technical problems beyond our control, including control deficiencies or map file re-deliveries rescheduling may become necessary.

Deliverables

NV5 Geospatial will submit all data collected and associated required deliverable in the formats specified in the appropriate advisory circulars to the FAA Office of Airports, Airports Surveying-GIS Program. All data submissions to the FAA will be through the program's web site at <https://adip.faa.gov/agis/public/>.

The AC 150/5300-17C project data deliveries that will not be submitted through the web site will be delivered on external hard drives or DVDs.

The 18B deliverables that will be uploaded to ADIP include:

- Imagery Plan and Survey and Quality Control Plan
- Image Delivery (sent to FAA)
- Color digital orthophotos (sent to FAA)
- Digital limited landmark detail outside the airport
- Obstruction survey data for **Existing** Runway 13/31
- Photogrammetrically derived and surveyed attributes in defined format
- Surveyed ends and profile for runway
- NAVAID data
- FGDC compliant metadata
- Final Report

We will deliver the following items to Bolton & Menk:

- Color digital orthophotos with a 1.0' pixel resolution in GeoTIFF (project area)
- 2 color enlargements (30"x40") covering the airport and surrounding area (mounted/laminated/framed)

All digital files will be delivered on external hard drive, FTP or email.

Cost and Payment Terms

Compensation for the above services will be provided as a lump sum cost of U.S. \$48,329.00.

Client Responsibilities

The successful and timely completion of this project is dependent upon a number of elements and work tasks, some of which involve participation by Bolton & Menk. You will be responsible for designating a representative for the project who will have the authority to transmit instructions, receive information, and make timely decisions with respect to the services provided by NV5 Geospatial.

NV5 Geospatial Representative

Jill Mahoney, Project Manager and Marlin Zook, Technical Manager, will represent us during the performance of the services to be provided under this agreement. Each has the authority to transmit and receive instructions and make decisions with respect to the services. Each is authorized to commit the necessary resources towards completing the services described herein.

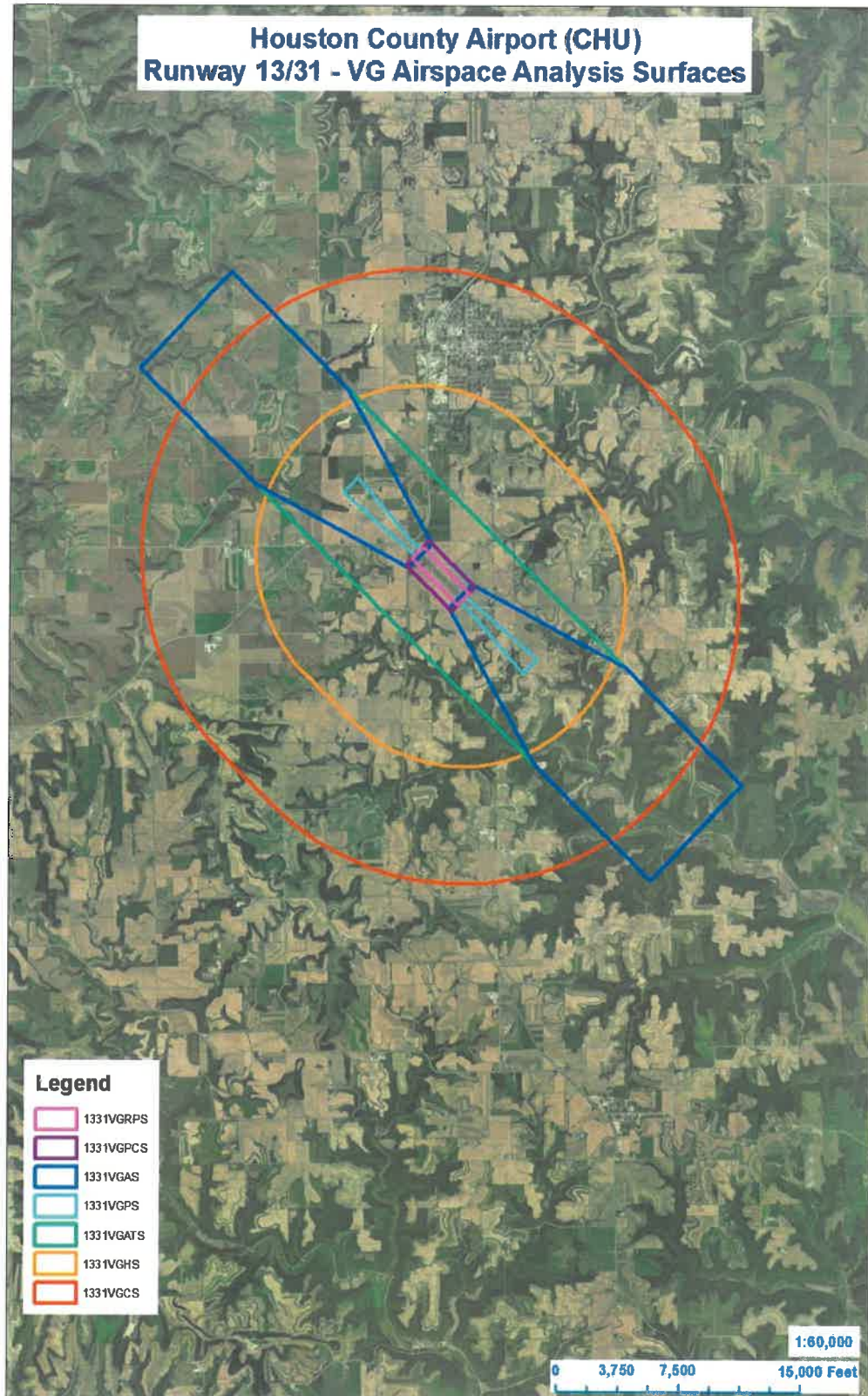


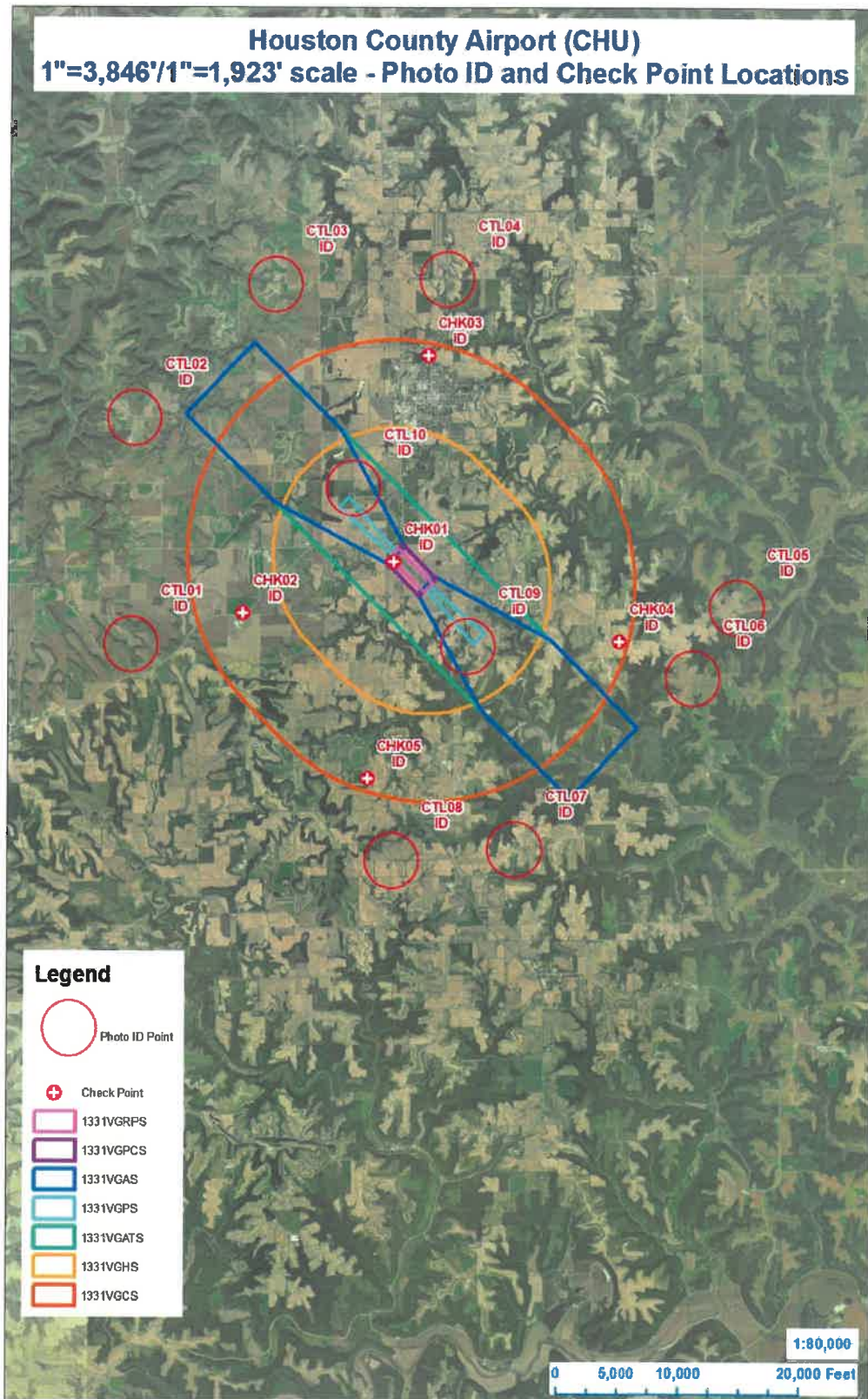
We look forward to working with you and your staff to complete this project in a timely and cost effective manner. Should you have any questions, please call our office at 803-351-3136 or email me at the address shown below.

Sincerely,
NV5 Geospatial, Inc.

A handwritten signature in black ink, appearing to read "David Grigg", written over the printed name.

David Grigg
Aviation Program Director
David.Grigg@nv5.com









PROJECT FEE ESTIMATE

| | | | | | | | | |
|-------------------------------------|--|---------------------------------|-------------|------------|-----------|--------------|-----------|-------------|
| CLIENT: | Houston County, MN | | | | | DATE: | 4/30/2024 | |
| PROJECT: | Houston County Airport (CHU): AGIS Airport Airspace Analysis | | | | | PREPARED BY: | SP | |
| Task | Task Description | Estimated Person Hours Required | | | | | | Totals |
| | | Sr. Eng. | Sr. Planner | Planner | GIS Tech. | Surveyor | Admin. | |
| 1 | Project Initiation and Coordination | | | | | | | |
| 1.1 | Project Scoping and Contract Development | 2 | 2 | 0 | 0 | 0 | 1 | 5 |
| 1.2 | Client and Agency Meetings | 8 | 16 | 4 | 0 | 0 | 0 | 28 |
| 1.3 | Grant Applicaton | 2 | 4 | 0 | 0 | 0 | 1 | 7 |
| 1.4 | Grant Closeout | 2 | 8 | 0 | 0 | 0 | 8 | 18 |
| 2 | AGIS Airport Airspace Analysis (AAA) | | | | | | | |
| 2.1 | FAA AGIS Project Initiation | 1 | 4 | 0 | 0 | 0 | 0 | 5 |
| 2.2 | Project Geodetic Control | 1 | 4 | 0 | 0 | 40 | 0 | 45 |
| 2.3 | Planimetric and Topographic Basemaps | 1 | 8 | 0 | 0 | 0 | 0 | 9 |
| 2.4 | Runway and Navigational Aides Survey | 1 | 8 | 0 | 0 | 40 | 0 | 49 |
| 2.5 | Airport Airspace Analysis | 1 | 8 | 0 | 0 | 0 | 0 | 9 |
| 2.6 | FAR Part 77 Obstruction Analysis | 1 | 4 | 12 | 0 | 0 | 0 | 17 |
| 2.7 | Update Safety Critical Data | 1 | 4 | 4 | 0 | 4 | 0 | 13 |
| 2.8 | Non-Safety Critical Data Submission | 1 | 4 | 4 | 0 | 4 | 0 | 13 |
| 2.9 | FAA AGIS Data Processing and Submission | 1 | 4 | 0 | 0 | 4 | 0 | 9 |
| 3 | Airport Layout Plan (ALP) Sheet Update | | | | | | | |
| 3.1 | ALP Sheet Update | 4 | 20 | 40 | 0 | 0 | 0 | 64 |
| Total Person Hours | | 27 | 98 | 64 | 0 | 92 | 10 | 291 |
| Direct Labor Rate | | \$57.00 | \$40.00 | \$30.00 | \$30.00 | \$40.00 | \$27.00 | |
| Total Direct Labor Cost | | \$1,539.00 | \$3,920.00 | \$1,920.00 | \$0.00 | \$3,680.00 | \$270.00 | \$11,329.00 |
| Overhead Rate 2.1373 | | \$3,289.30 | \$8,378.22 | \$4,103.62 | \$0.00 | \$7,865.26 | \$577.07 | \$24,213.47 |
| Subtotal Labor Cost | | | | | | | | \$35,542.47 |
| Direct Expenses (10% Markup) | | | | | | | | |
| | | AGIS Survey - NV5 | | | | | | \$53,162.00 |
| Total Expenses | | | | | | | | \$53,162.00 |
| Fixed Fee 15% x Subtotal Labor Cost | | | | | | | | \$5,331.37 |
| Total Project Fee | | | | | | | | \$94,036.00 |

Houston County Agenda Request Form

Date Submitted: April 30, 2024 Board Date: May 7, 2024

Person requesting appointment with County Board: Brian Pogodzinski

Issue:

Board approval needed to accept the scope of work to conduct an aeronautical survey for the RNAV approach.

Attachments/Documentation for the Board's Review:

Scope of work documents from Bolten and Menk.

Justification:

Action Requested:

Approve Work Order #4.

| For County Use Only | | | |
|-------------------------------|------------------------------------|---|--|
| <u>Reviewed by:</u> | <u> </u> County Auditor | <u> </u> County Attorney | <u> </u> Zoning Administrator |
| | <u> </u> Finance Director | <u> </u> County Engineer | <u> </u> Environmental Services |
| | <u> </u> IS Director | <u> </u> Other (indicate dept) | <u> </u> |
| <u>Recommendation:</u> | | | |
| <u>Decision:</u> | | | |

All agenda request forms must be submitted to Allison Wagner at BOC@co.houston.mn.us by 12:00 p.m. on Thursday in order to be considered for inclusion on the following week's agenda. The Board will review all requests and determine if the request will be heard at a County Board meeting.



Real People. Real Solutions.

7533 Sunwood Drive NW
Suite 206
Ramsey, MN 55303-5119

Ph: (763) 433-2851
Fax: (763) 427-0833
Bolton-Menk.com

April 30, 2024

Mr. Brian Pogodzinski, P.E.
County Engineer
Houston County
1124 East Washington Street
Caledonia, MN 55921

RE: Houston County Airport (CHU)
AGIS Airport Airspace Analysis (AAA)
BMI Work Order #4
Proposal for Professional Services

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- State Share 5% \$ 4,700.00
- County Share 5% \$ 4,700.00

Bolton & Menk, Inc. puts a high priority on ensuring that our company’s efforts are consistent with our clients’ needs. If you find this proposal acceptable, please return to me a signed and dated copy of this document.

Bolton & Menk, Inc.



Silas Parmar, P.E.

Aviation Project Manager

Authorization and acceptance of this letter proposal.

Houston County, Minnesota

By: _____
Mr. Brian Pogodzinski
County Engineer

Date

February 2, 2024

Christopher M Gardner
Bolton & Menk, Inc.
12224 Nicollet Ave
Burnsville, MN 55337

Project: 040855 | Aeronautical Obstruction Survey – Houston County Airport (CHU)

Dear Mr. Gardner,

This summary of work describes our understanding of the scope of work and services required for an aeronautical obstruction survey at the Houston County Airport (CHU) located in Caledonia, MN. The project will be done in compliance with Airports GIS Program policies and will include an airport airspace analysis for vertically guided operations for existing Runway 13/31. The Advisory Circulars identified below detail the data collection requirements and accuracies for the project and the verification process by the Federal Aviation Administration (FAA) and the National Geodetic Survey (NGS).

- AC 150/5300-16B “General Guidance and Specifications for Aeronautical Surveys: Establishment of Geodetic Control and Submission to the National Geodetic Survey”
- AC 150/5300-17C, Change 1 “Standards for Using Remote Sensing Technologies in Airport Surveys”
- AC 150/5300-18B, Change 1 “General Guidance and Specifications for Submission of Aeronautical Surveys to NGS: Airport Survey Data Collection and Geographic Information System (GIS) Standards”

Summary of Work

We understand that the purpose of this project is to accomplish an FAA Airport Airspace Analysis Survey for all surfaces defined in FAA Advisory Circular 150/5300 - 18B: 2.7.1.1 Runways with Vertical Guidance.

In addition, and per FAA Policy Guidance issued 9/22/22, we will be reviewing the existing Obstacle Authoritative Source (OAS) obstacle data (11 existing objects in OAS within 18B surfaces) and potentially removing obstacles as a part of this project. Any obstacle removals will be completed by NV5 Geospatial using the FAA’s Runway Airspace Management tool.

For this project, we will acquire new vertical stereo digital imagery at a physical image scale of 1”=3,846’ of the obstruction surface areas and 1”=1,923’ of the VGPS surfaces area. The aerial imagery will cover all of the VG Airspace Analysis surfaces using a Digital Mapping Camera III (DMC-III) camera system, or comparable, during leaf-on conditions.

From the 1”=3,846’ imagery, we will produce the following:

- Limited landmark feature planimetric mapping
- Color digital orthophotos with a 1.0’ pixel resolution
- Identification and mapping of obstruction obstacles for all of the VG surfaces

From the 1”=1,923’ imagery, we will produce the following:

- Identification and mapping of obstruction obstacles for the VGRPS, VGPCS, and VGPS surfaces

Quality Standards

The project has been designed to conform to the National Map Accuracy Standards for limited landmark planimetric feature collection and twelve inch orthophoto production. In addition, we ensure that the photogrammetric mapping will meet all FAA and NGS standards. We will exercise reasonable care and will conform to the standards of practice ordinarily used by the photogrammetric profession.

Project Area

The project area encompasses all of Houston County Airport (CHU) inclusive of the obstruction surfaces as defined in the attached exhibits.

Control Surveying

The aerial photography will be completed with ABGPS control which will be used for the base control for the geo-referencing of the aerial imagery. NV5 Geospatial will process the ABGPS data using COR stations and reference it to the project control datums:

Horizontal: North American Datum of 1983/2011 (NAD 83(2011)), in the MN State Plane Coordinate System, South Zone, US survey feet.

Vertical: North American Vertical Datum of 1988 (NAVD 88)

Bolton & Menk will complete all of the remaining on-site ground control surveys, including:

- Geodetic control validation of the existing airport PACS and SACS stations or establish temporary airport control according to the guidelines established in AC 150/5300-16B
- Establishing all necessary photo-identifiable ground control and FAA mandated check-points required to validate the ABGPS and IMU control.
- Collection of the airport runway end positions
- Collection of vertical profile for runway
- Collection of the position, elevation, and where required the appropriate navigational aid perpendicular point of all electronic and visual navigational aids (NAVAIDS) located on the airport and associated with any current instrument approach servicing the airport
- All other tasks, not specifically listed above, as outlined in FAA AC-18B, Table 2-1 "Survey Requirements Matrix" for Instrument Procedure Development.
- Final Survey Report

Orthophoto Mapping

We will use the control solution and imagery to generate a Digital Elevation Model (DEM) of the VG surfaces. The imagery will be processed into color digital orthophotos using the aforementioned DEM to rectify the images. Orthophotos for the entire project area will be developed with a 1.0' pixel resolution. Orthos will be delivered in a GeoTIFF file format.

18B Obstruction Surveys

The Obstructions Surfaces to be uploaded to ADIP will satisfy the requirements of AC 150/5300-18B:

- 2.7.1.2 Analysis of Existing Runway 13/31 with Vertically Guided Operations
(Surfaces include the VGRPS, VGPCS, VGAS, VGPS, VGATS, VGHS and VGCS)

The specific types and quantities of obstructions for each surface are outlined and clearly defined for the particular surface in each circular section. Any obstructions that meet the requirement of the circular, but are of a nature that elevations at the highest point of the obstruction are virtually impossible to read through photogrammetric methods (cell tower, electrical tower, etc.), will be identified and relayed to the surveyor to initiate field surveyed elevations for the obstruction.

The obstruction delivery will include the limited landmark planimetric feature collection.

The final data will be uploaded to ADIP in ESRI Shapefile format.

Production Schedule

We will work with you to finalize a mutually agreeable schedule for the project. We will make a reasonable effort to maintain the agreed-upon schedule. However, should the project be interrupted by technical problems beyond our control, including control deficiencies or map file re-deliveries rescheduling may become necessary.

Deliverables

NV5 Geospatial will submit all data collected and associated required deliverable in the formats specified in the appropriate advisory circulars to the FAA Office of Airports, Airports Surveying-GIS Program. All data submissions to the FAA will be through the program's web site at <https://adip.faa.gov/agis/public/>.

The AC 150/5300-17C project data deliveries that will not be submitted through the web site will be delivered on external hard drives or DVDs.

The 18B deliverables that will be uploaded to ADIP include:

- Imagery Plan and Survey and Quality Control Plan
- Image Delivery (sent to FAA)
- Color digital orthophotos (sent to FAA)
- Digital limited landmark detail outside the airport
- Obstruction survey data for **Existing** Runway 13/31
- Photogrammetrically derived and surveyed attributes in defined format
- Surveyed ends and profile for runway
- NAVAID data
- FGDC compliant metadata
- Final Report

We will deliver the following items to Bolton & Menk:

- Color digital orthophotos with a 1.0' pixel resolution in GeoTIFF (project area)
- 2 color enlargements (30"x40") covering the airport and surrounding area (mounted/laminated/framed)

All digital files will be delivered on external hard drive, FTP or email.

Cost and Payment Terms

Compensation for the above services will be provided as a lump sum cost of U.S. \$48,329.00.

Client Responsibilities

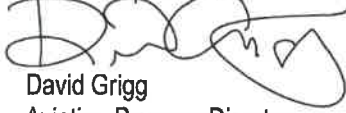
The successful and timely completion of this project is dependent upon a number of elements and work tasks, some of which involve participation by Bolton & Menk. You will be responsible for designating a representative for the project who will have the authority to transmit instructions, receive information, and make timely decisions with respect to the services provided by NV5 Geospatial.

NV5 Geospatial Representative

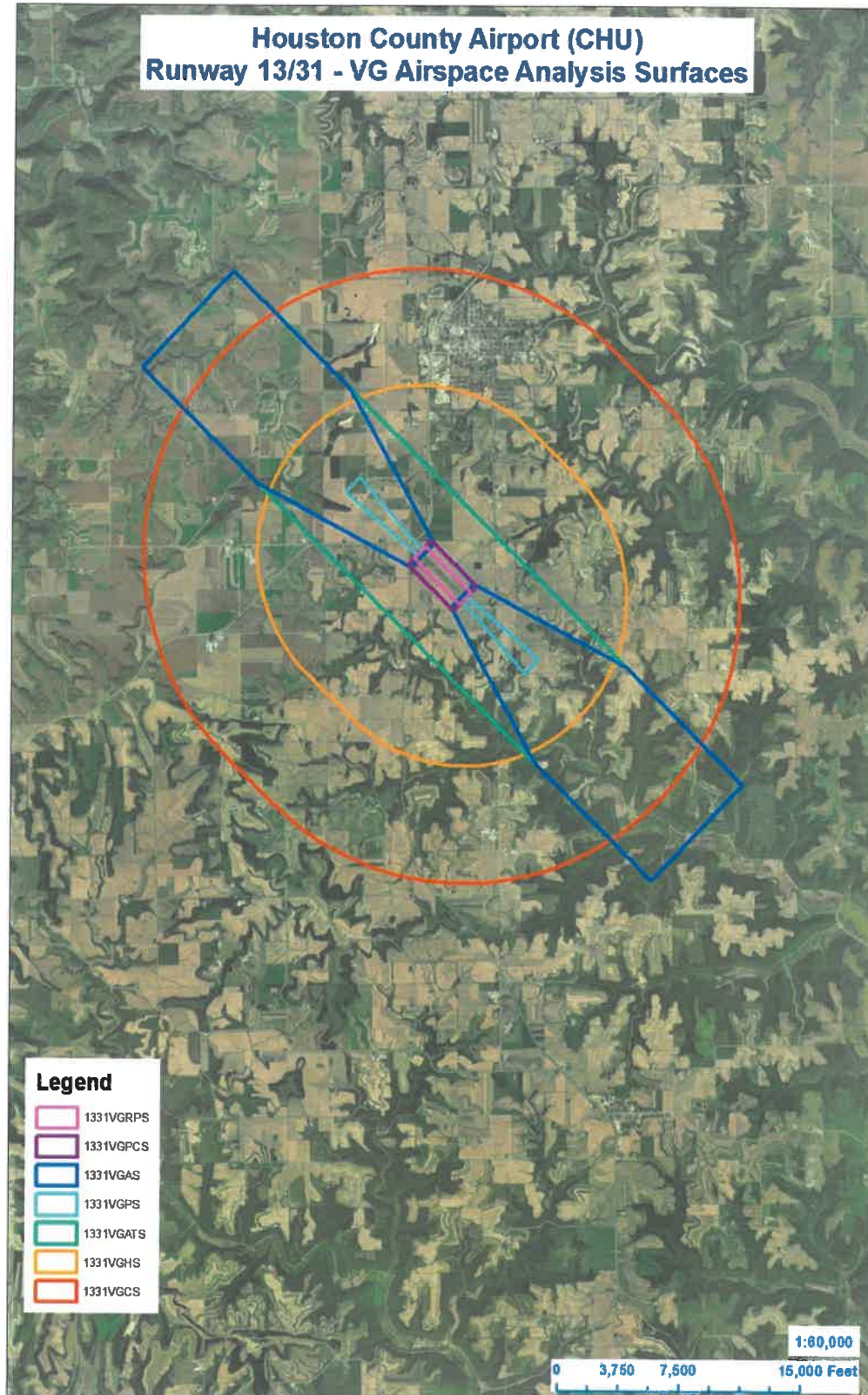
Jill Mahoney, Project Manager and Marlin Zook, Technical Manager, will represent us during the performance of the services to be provided under this agreement. Each has the authority to transmit and receive instructions and make decisions with respect to the services. Each is authorized to commit the necessary resources towards completing the services described herein.

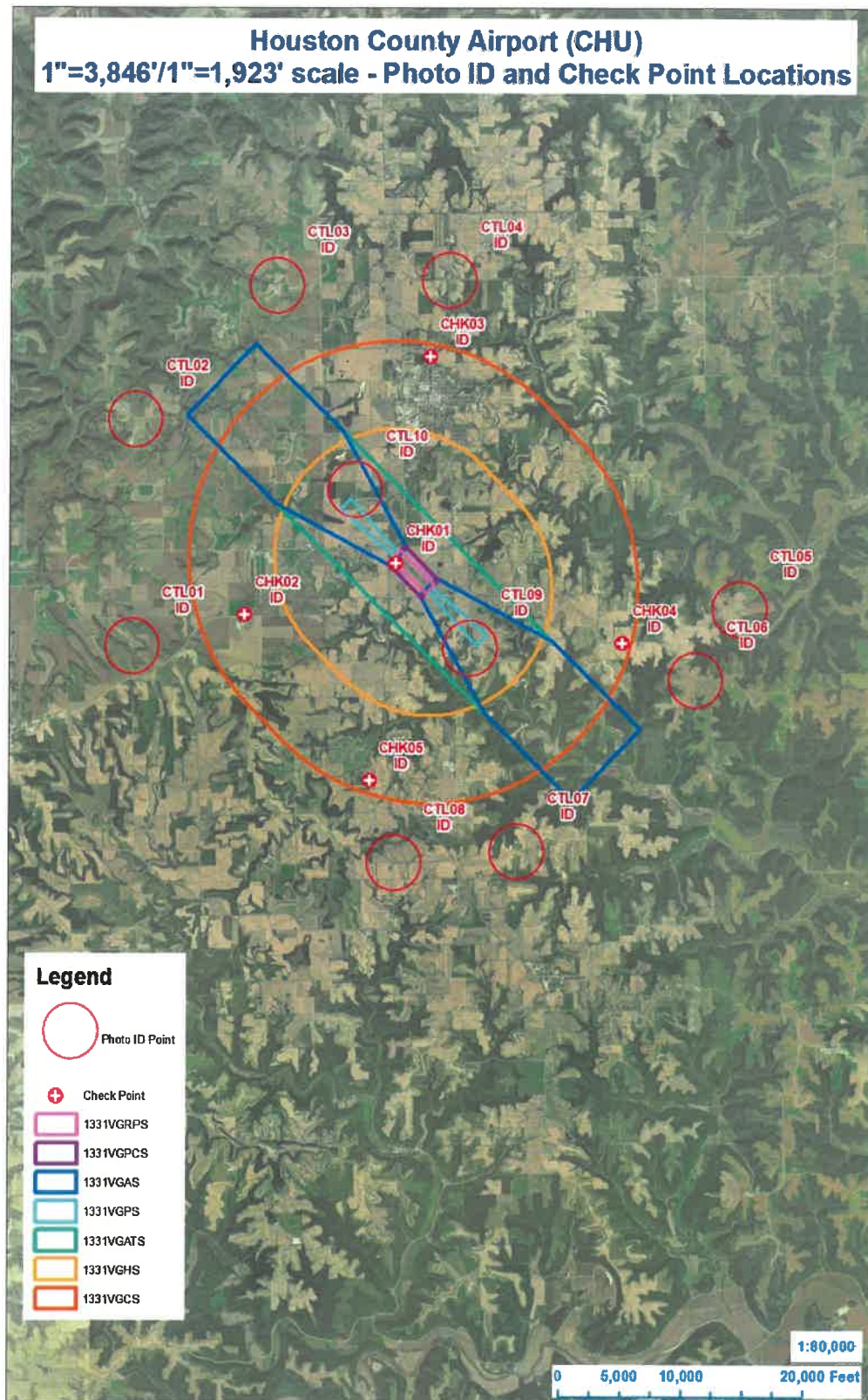
We look forward to working with you and your staff to complete this project in a timely and cost effective manner. Should you have any questions, please call our office at 803-351-3136 or email me at the address shown below.

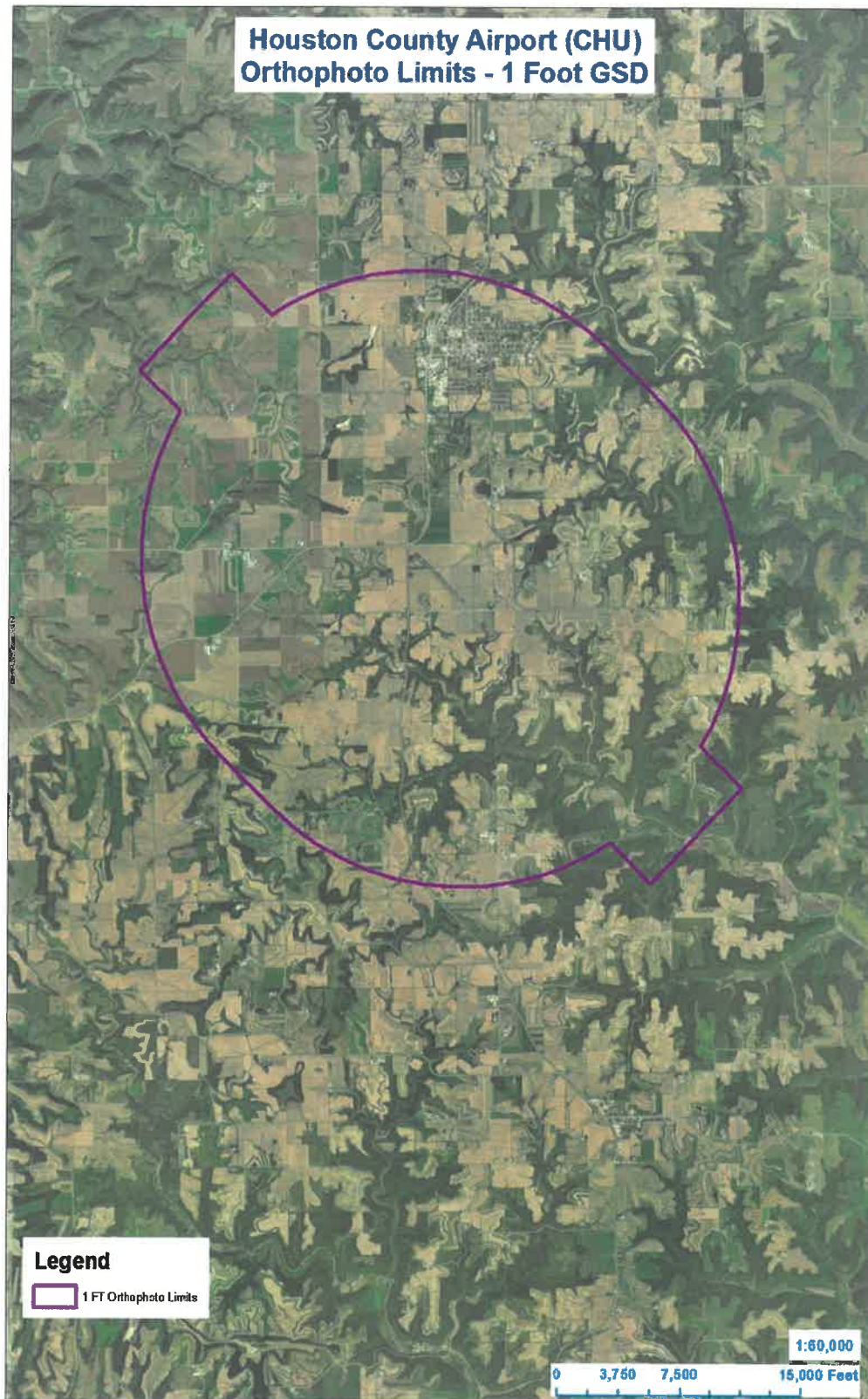
Sincerely,
NV5 Geospatial, Inc.

A handwritten signature in black ink, appearing to read 'David Grigg', is written over the printed name.

David Grigg
Aviation Program Director
David.Grigg@nv5.com









PROJECT FEE ESTIMATE

| | | | | | | | | |
|-------------------------------------|--|---------------------------------|-------------|------------|-----------|--------------|-----------|-------------|
| CLIENT: | Houston County, MN | | | | | DATE: | 4/30/2024 | |
| PROJECT: | Houston County Airport (CHU): AGIS Airport Airspace Analysis | | | | | PREPARED BY: | SP | |
| Task | Task Description | Estimated Person Hours Required | | | | | | Totals |
| | | Sr. Eng. | Sr. Planner | Planner | GIS Tech. | Surveyor | Admin. | |
| 1 | Project Initiation and Coordination | | | | | | | |
| 1.1 | Project Scoping and Contract Development | 2 | 2 | 0 | 0 | 0 | 1 | 5 |
| 1.2 | Client and Agency Meetings | 8 | 16 | 4 | 0 | 0 | 0 | 28 |
| 1.3 | Grant Applicaton | 2 | 4 | 0 | 0 | 0 | 1 | 7 |
| 1.4 | Grant Closeout | 2 | 8 | 0 | 0 | 0 | 8 | 18 |
| 2 | AGIS Airport Airspace Analysis (AAA) | | | | | | | |
| 2.1 | FAA AGIS Project Initiation | 1 | 4 | 0 | 0 | 0 | 0 | 5 |
| 2.2 | Project Geodetic Control | 1 | 4 | 0 | 0 | 40 | 0 | 45 |
| 2.3 | Planimetric and Topographic Basemaps | 1 | 8 | 0 | 0 | 0 | 0 | 9 |
| 2.4 | Runway and Navigational Aides Survey | 1 | 8 | 0 | 0 | 40 | 0 | 49 |
| 2.5 | Airport Airspace Analysis | 1 | 8 | 0 | 0 | 0 | 0 | 9 |
| 2.6 | FAR Part 77 Obstruction Analysis | 1 | 4 | 12 | 0 | 0 | 0 | 17 |
| 2.7 | Update Safety Critical Data | 1 | 4 | 4 | 0 | 4 | 0 | 13 |
| 2.8 | Non-Safety Critical Data Submission | 1 | 4 | 4 | 0 | 4 | 0 | 13 |
| 2.9 | FAA AGIS Data Processing and Submission | 1 | 4 | 0 | 0 | 4 | 0 | 9 |
| 3 | Airport Layout Plan (ALP) Sheet Update | | | | | | | |
| 3.1 | ALP Sheet Update | 4 | 20 | 40 | 0 | 0 | 0 | 64 |
| Total Person Hours | | 27 | 98 | 64 | 0 | 92 | 10 | 291 |
| Direct Labor Rate | | \$57.00 | \$40.00 | \$30.00 | \$30.00 | \$40.00 | \$27.00 | |
| Total Direct Labor Cost | | \$1,539.00 | \$3,920.00 | \$1,920.00 | \$0.00 | \$3,680.00 | \$270.00 | \$11,329.00 |
| Overhead Rate 2.1373 | | \$3,289.30 | \$8,378.22 | \$4,103.62 | \$0.00 | \$7,865.26 | \$577.07 | \$24,213.47 |
| Subtotal Labor Cost | | | | | | | | \$35,542.47 |
| Direct Expenses (10% Markup) | | | | | | | | |
| | | AGIS Survey - NV5 | | | | | | \$53,162.00 |
| Total Expenses | | | | | | | | \$53,162.00 |
| Fixed Fee 15% x Subtotal Labor Cost | | | | | | | | \$5,331.37 |
| Total Project Fee | | | | | | | | \$94,036.00 |

Houston County Agenda Request Form

Date Submitted: May 1, 2024 Board Date: May 7, 2024

Person requesting appointment with County Board: Brian Pogodzinski

Issue:

The County constructed taxilanes for hangers at the airport. The airport commission is recommending the county construct a t-hangar on the first row and lease land for private box hangars on the second row.

Attachments/Documentation for the Board's Review:

Hanger payback cost estimates

Justification:

There is demand for new hangar space at the airport.

Action Requested:

Discuss and approve future hangar construction and land rental rates.

| For County Use Only | | | |
|-------------------------------|------------------------------------|---|--|
| <u>Reviewed by:</u> | <u> </u> County Auditor | <u> </u> County Attorney | <u> </u> Zoning Administrator |
| | <u> </u> Finance Director | <u> </u> County Engineer | <u> </u> Environmental Services |
| | <u> </u> IS Director | <u> </u> Other (indicate dept) | <u> </u> |
| <u>Recommendation:</u> | | | |
| <u>Decision:</u> | | | |

All agenda request forms must be submitted to Allison Wagner at BOC@co.houston.mn.us by 12:00 p.m. on Thursday in order to be considered for inclusion on the following week's agenda. The Board will review all requests and determine if the request will be heard at a County Board meeting.

15 year Option

Land Purchase Co Share 22000

FAA donated 28000

New Taxi Access 18000

Insurance 5000

Maintenance 10000

83000

÷ 5 yrs

16600

Future Life 750000 } 5% 1000000 25% Life 4000.00

9333.33

÷ 12 units

777.77 ÷ 12 months = 66.67/mo

Hangar Cost 1,000,000 @ 5% 85000.00

÷ 15 yrs

5666.67

Annual Ins 5000.00

Annual Maint 1000.00

11666.67

÷ 8 units

1458.33 ÷ 12 months 121.52/mo

187.72/mo

Questions

Future Engineering ?

Cr. Land Reaver 7500

AGIS 4000

Hangar Removal ?

Pave end of Runway (link up) ?

Should Other Parties Pay more for improvements

Does County Absorb some cost in long run

as a public airport?

10 year Option

Land Purchase Co. share 22000

FAR Disallowed 28000

New Taxi Cost 18000

Insurance 6000

Maintenance 10000

83000

÷ 10 yrs

8300

Future Land Purchase 5% increase 4000

12300

÷ 12 months

1025⁰⁰ ÷ 12 mo 85⁴²/mo

Hangar Cost 1,200,000 @ 5% 85000

÷ 10 yrs

8500

Annual Tax 9000

Annual Maint 10000

14500

÷ 12 months

1812⁵⁰ ÷ 12 mo 151.04

236²¹/mo

Future Engineering ?

Gr. Blvd. Road 7500

AGIS 4000

Hangar Removal ?

Post End of Runway No-Rep ?

? Future Sites Share in Land Cost

Does The County Absorb some

Cost as Radio Airport

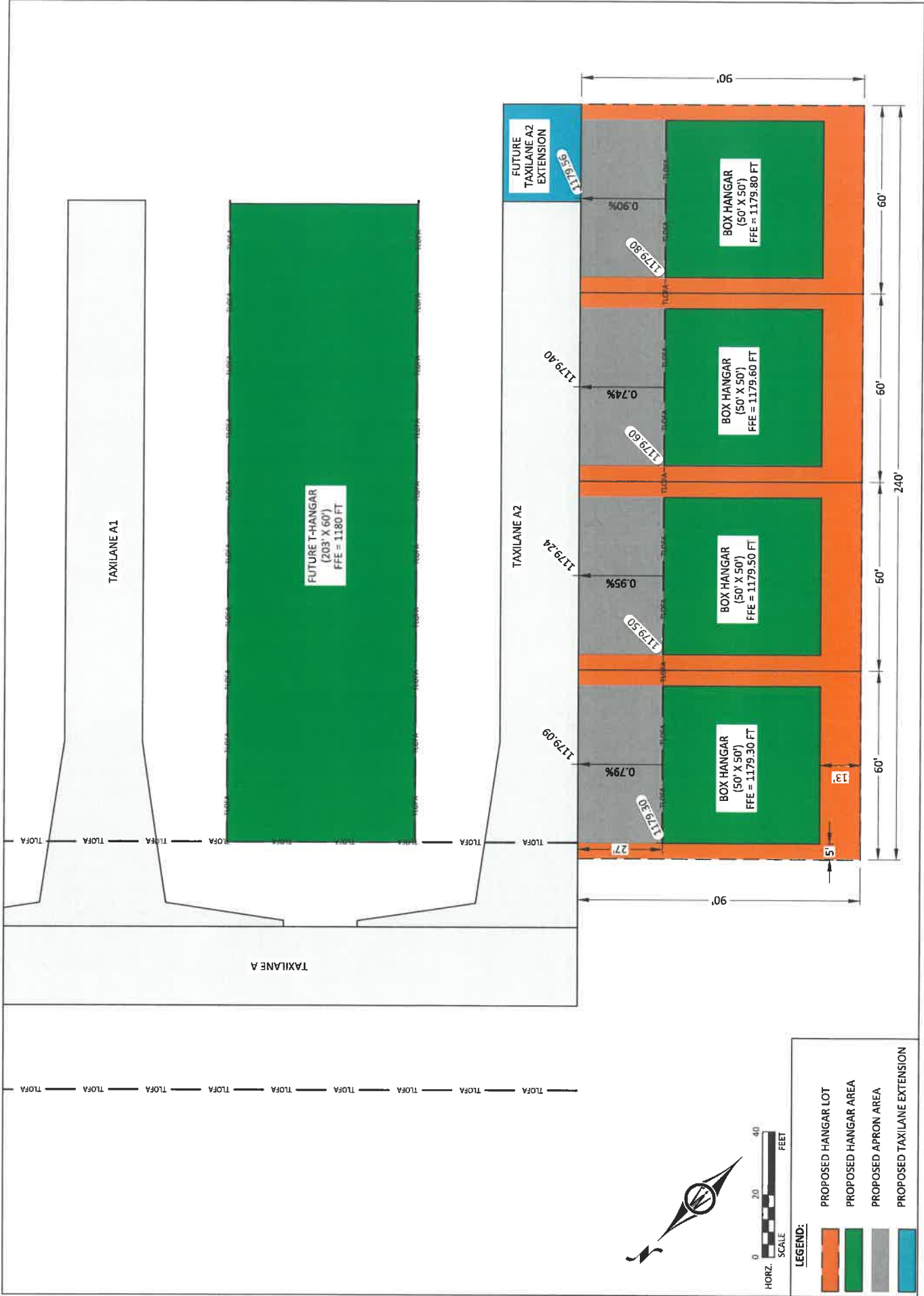
(New Land Issues)

4 Is Future Annual Revenue

Calculation of 2023 Airport Billings - Recalculated (Annual Rates)

| | | 2022 | 3.21% | 2023 |
|------------|-----------|-------------|-----------------|-------------|
| | | <u>Rent</u> | <u>Increase</u> | <u>Rent</u> |
| Front Row | Lot 1,2,3 | \$976.26 | \$31.34 | \$1,007.59 |
| Front Row | Lot 4 | \$325.42 | \$10.45 | \$335.87 |
| Front Row | Lot 5 | \$325.42 | \$10.45 | \$335.87 |
| Front Row | Lot 6 | \$325.42 | \$10.45 | \$335.87 |
| Front Row | Lot 6a | \$908.92 | \$29.18 | \$938.09 |
| Second Row | Lot 7 | \$232.83 | \$7.47 | \$240.31 |
| Second Row | Lot 8 | \$232.83 | \$7.47 | \$240.31 |
| Second Row | Lot 9 | \$232.83 | \$7.47 | \$240.31 |
| Second Row | Lot 10 | \$232.83 | \$7.47 | \$240.31 |
| Second Row | Lot 11 | \$232.83 | \$7.47 | \$240.31 |
| Third Row | Lot 12 | \$232.83 | \$7.47 | \$240.31 |
| Third Row | Lot 13 | \$232.83 | \$7.47 | \$240.31 |
| Third Row | Lot 14 | \$232.83 | \$7.47 | \$240.31 |
| | | \$4,724.11 | \$151.64 | \$4,875.76 |

| | | |
|--------------------------------|-----|----------------|
| CPI for current period | | 299.17 |
| Less CPI for previous period | | <u>281.148</u> |
| Equals index point change | | 18.022 |
| Divided by previous period CPI | | <u>281.148</u> |
| Equals | | 0.0641 |
| Resultant multiplied by | 100 | |
| Equals percent change | | 6.41 |
| Divided by 2 | 2 | |
| Equals percent increase | | 3.2050735 |
| round to | | 3.21 |





Rates and Charges Study

2023 Minnesota Airports Survey Results

| | Multiple Plane or Large Storage Hangars | | | T-Hangars | | |
|--------------------------------------|---|---|-------|--------------|-----------------------------------|-------|
| | Size (sq ft) | Rental Fees | Age | Size (sq ft) | Rental Fees | Age |
| Luverne Municipal | ≤2,500 | \$190/month | 10–20 | ≤2,500 | \$85/month | 20–30 |
| | 2,500–5,000 | \$500/month | 20–30 | ≤2,500 | \$115/month | 10–20 |
| | | | | ≤2,500 | \$190/month | 10–20 |
| Minneapolis Airlake | N/A | N/A | N/A | N/A | N/A | N/A |
| Montevideo-Chippewa | 5,000–10,000 | \$80/month per aircraft collected by FBO | ≥30 | 5,000–10,000 | N/A | ≥30 |
| | | | | 2,500–5,000 | \$150/month | ≤10 |
| Moorhead Municipal | N/A | N/A | N/A | ≤2,500 | \$145/month | 20–30 |
| | | | | ≤2,500 | \$155/month | 20–30 |
| | | | | ≤2,500 | \$155/month | 20–30 |
| Mora Municipal | N/A | N/A | N/A | N/A | N/A | N/A |
| Morris Municipal | 5,000–10,000 | \$1,800/month (single tenant) | ≤10 | N/A | \$60–\$65/month | ≥30 |
| | 5,000–10,000 | \$150/month | 20–30 | N/A | \$75– \$100/month | 10–20 |
| | 5,000–10,000 | \$150/month | 20–30 | | | |
| Orr Regional | 5,000–10,000 | \$300/month | 10–20 | 5,000–10,000 | \$110.00/month | ≥30 |
| Perham Municipal | N/A | N/A | N/A | ≤2,500 | \$137.50/month (based on size) | ≥30 |
| | | | | ≤2,500 | \$155/month | ≤10 |
| Pipestone Municipal | ≤2,500 | \$175/month | ≥30 | ≤2,500 | \$110/month | 20–30 |
| | | | | ≤2,500 | \$250/month | ≤10 |
| Note: N/A = Information not provided | | | | | | |

6.4 Intermediate Small

6.4.1 Box Hangars

The most common size of box hangars at Intermediate Small Airports is between 2,500 and 5,000 square feet. The most common age of box hangars is more than 30 years old. The average hangar fee was \$315 per month.

6.4.2 T-Hangars

The most common age of T-hangars at Intermediate Small Airports is more than 30 years old. The average rental fee of a T-hangar space was \$107 per month and varied based on aircraft size.

Table 6-4 – Intermediate Small Hangar Fees

| | Multiple Plane or Large Storage Hangars | | | T-Hangars | | |
|-------------------------------|---|--|-------|--------------|--------------------|-------|
| | Size (sq ft) | Rental Fees | Age | Size (sq ft) | Rental Fees | Age |
| Ada-Norman County/Twin Valley | N/A | N/A | ≥30 | ≤2,500 | \$50.00/month | ≥30 |
| Appleton Municipal | ≤2,500 | \$60/month | 20–30 | N/A | N/A | N/A |
| Bagley Municipal | N/A | N/A | N/A | N/A | N/A | N/A |
| Blue Earth Municipal | 5,000–10,000 | \$600/month | 20–30 | ≤2,500 | \$90–\$110/month | ≥30 |
| | 2,500–5,000 | \$350/month | ≥30 | | | |
| | 2,500–5,000 | \$250/month | ≥30 | | | |
| Brooten Municipal | N/A | N/A | N/A | N/A | N/A | N/A |
| Buffalo Municipal | N/A | N/A | N/A | ≤2,500 | \$140–\$190/month | ≥30 |
| | | | | ≤2,500 | \$165/month | 20–30 |
| | | | | ≤2,500 | \$210/month | 10–20 |
| Caledonia-Houston County | N/A | N/A | N/A | N/A | N/A | N/A |
| Duluth-Sky Harbor | 2,500–5,000 | \$2580/month (dependent on percent of hangar leased) | ≥30 | N/A | N/A | N/A |
| | N/A | N/A | ≥30 | | | |
| Elbow Lake Municipal | ≥10,000 | \$200/month: Regular summer space \$250/month: Regular winter space \$250–\$400: Extra-large space \$25–\$75: Overnight storage | ≤10 | ≤2,500 | \$65–75\$/month | ≥30 |
| | | | ≤10 | ≥10,000 | \$115/month | ≤10 |
| Fertile Municipal | N/A | N/A | N/A | N/A | N/A | N/A |
| Forest Lake | 5,000–10,000 | N/A | ≥30 | 5,000–10,000 | \$125/month | ≥30 |
| Fosston Municipal | N/A | N/A | N/A | N/A | N/A | N/A |
| Glencoe Municipal | N/A | N/A | N/A | ≤2,500 | \$100/month | 20–30 |
| | | | | ≤2,500 | \$80/month | ≥30 |
| | | | | ≤2,500 | \$65/month | ≥30 |
| | | | | ≤2,500 | \$90/month | 20–30 |
| Hawley Municipal | ≤2,500 | \$65/month | ≥30 | 5,000–10,000 | \$110–\$115/month | ≥30 |
| | | | | 5,000–10,000 | \$110–\$115/month | 20–30 |
| | | | | 5,000–10,000 | \$110–\$115/month | 10–20 |
| | | | | 5,000–10,000 | NP/ based on sq ft | ≤10 |

| | Multiple Plane or Large Storage Hangars | | | T-Hangars | | |
|---------------------------|---|---|-------|------------------|--|-------|
| | Size (sq ft) | Rental Fees | Age | Size (sq ft) | Rental Fees | Age |
| Hector Municipal | ≤2,500 | N/A | ≤10 | ≤2,500 | \$100/month | 10–20 |
| | 2,500–5,000 | N/A | ≤10 | ≤2,500 | N/A | 20–30 |
| Herman Municipal | 5,000–10,000 | \$480/year | ≥30 | N/A | N/A | N/A |
| Jackson Municipal | 5,000–10,000 | \$400/month (per aircraft) | 10–20 | ≤2,500 | \$80/month | ≥30 |
| | | | | ≤2,500 | \$90/month | 20–30 |
| Le Sueur Municipal | N/A | N/A | N/A | N/A | N/A | N/A |
| Longville Municipal | N/A | N/A | N/A | N/A | N/A | N/A |
| Madison-Lac Qui Parle | 2,500–5,000 | \$100/month | ≥30 | N/A | \$100/month | ≥30 |
| Mahnomen County | N/A | N/A | N/A | ≤2,500 | \$50/month | ≥30 |
| | | | | ≤2,500 | \$0.086/sq ft | 10–20 |
| | | | | ≤2,500 | \$0.086/sq ft | ≤10 |
| Maple Lake Municipal | N/A | N/A | N/A | N/A | N/A | N/A |
| McGregor-Isedor Iverson | N/A | N/A | N/A | N/A | N/A | N/A |
| Minneapolis Crystal | N/A | N/A | N/A | ≤2,500 | \$185/month | ≥30 |
| Moose Lake-Carlton County | ≤2,500 | \$91/month | 20–30 | ≤2,500 | \$139/month | 20–30 |
| | 2,500–5,000 | \$464/month (entire hangar) | 10–20 | | | |
| Olivia Regional | 2,500–5,000 | \$400/month | ≥30 | ≤2,500 | \$150.37/month | ≤10 |
| | 2,500–5,000 | \$100/month | ≥30 | | | |
| Ortonville Municipal | NP | \$80/month cold \$200/month heated | ≥30 | N/A | N/A | N/A |
| Paynesville Municipal | N/A | N/A | N/A | ≤2,500 | \$100– \$120/month (based on size) | 10–20 |
| Pine River Regional | N/A | N/A | N/A | N/A | N/A | N/A |
| Piney-Pinecreek Border | N/A | N/A | N/A | N/A | N/A | N/A |
| Red Lake Falls | N/A | N/A | N/A | 5,000– 10,000 | \$100/month | ≥30 |
| Rushford Municipal | ≤2,500 | N/A | 10–20 | 5,000– 10,000 | \$125/month | 10–20 |
| Saint Paul-Lake Elmo | N/A | (All hangars are private) | N/A | N/A | N/A | N/A |
| Sauk Centre Municipal | 2,500–5,000 | \$500/month | 20–30 | ≥10,000 | \$120/month | 10–20 |
| Slayton Municipal | N/A | N/A | ≥30 | ≤2,500 | \$75/month | ≥30 |
| | | | | ≤2,500 | \$65/month | ≥30 |
| Springfield Municipal | N/A | \$65/month (per space) | 20–30 | ≤2,500 | \$65/month | 20–30 |
| Staples Municipal | 5,000–10,000 | \$200/month single-engine \$250/month multi-engine | ≤10 | ≤2,500 | \$85/month | 20–30 |
| | | | | ≤2,500 | \$95/month | 20–30 |

| | Multiple Plane or Large Storage Hangars | | | T-Hangars | | |
|--------------------------------------|---|----------------------------------|-------|--------------|---------------|-------|
| | Size (sq ft) | Rental Fees | Age | Size (sq ft) | Rental Fees | Age |
| | | \$500/month multi-engine | | | | |
| Stephen Municipal | N/A | N/A | N/A | 5,000–10,000 | \$70/month | ≥30 |
| Todd Field (Long Prairie) | N/A | N/A | N/A | ≤2,500 | \$80/month | 10–20 |
| Tower Municipal | N/A | N/A | N/A | N/A | N/A | N/A |
| Tracy Municipal | 2,500–5,000 | \$145/month (entire building) | ≥30 | 5,000–10,000 | \$185/quarter | ≥30 |
| Walker Municipal | N/A | N/A | N/A | ≤2,500 | \$175/month | 10–20 |
| | | | | ≤2,500 | \$125/month | ≥30 |
| | | | | ≤2,500 | \$175/month | ≥30 |
| Warren Municipal | ≤2,500 | \$125/month (per space) | 20–30 | ≤2,500 | \$125/month | 10–20 |
| Waseca Municipal | N/A | N/A | N/A | 2,500–5,000 | \$120/month | ≥30 |
| Wheaton Municipal | N/A | N/A | N/A | N/A | N/A | N/A |
| Windom Municipal | ≤2,500 | \$90/month (per space) | ≤10 | ≤2,500 | \$75/month | ≥30 |
| | 5,000–10,000 | \$475/month | ≤10 | | | |
| Note: N/A = Information not provided | | | | | | |

6.5 Landing Strip Turf

6.5.1 Box Hangars

The most common size of box hangars at Landing Strip Turf Airports is less than 2,500 square feet. The most common age of box hangars is more than 30 years old. Airports in this category reported charging between \$100 to \$200 per month per hangar, while one airport in this category charged between \$75 to \$85 per space.

6.5.2 T-Hangars

Only one airport reported a T-hangar rate, which was \$50 per month. The age of the hangar was more than 30 years old.

Houston County Agenda Request Form

Date Submitted: April 30, 2024 Board Date: May 7, 2024

Person requesting appointment with County Board: Brian Pogodzinski

Issue:

Board approval needed to accept the low quote for CP 2024-08 for crackfilling at the airport from Fahrner Asphalt Sealers, LLC in the amount of \$40,500.00.

Attachments/Documentation for the Board's Review:

Abstract for CP 2024-08 Crack Filling is attached. Only 1 bid was received.

Reminder: Unit prices are not public until after the award.

Justification:

The Highway Department provides crack fill repair under our normal maintenance for the County Airport.

Action Requested:

Board approval needed to accept the low quote from Fahrner Asphalt Sealers, LLC.

| For County Use Only | | | |
|-------------------------------|------------------------------------|---|--|
| Reviewed by: | <u> </u> County Auditor | <u> </u> County Attorney | <u> </u> Zoning Administrator |
| | <u> </u> Finance Director | <u> </u> County Engineer | <u> </u> Environmental Services |
| | <u> </u> IS Director | <u> </u> Other (indicate dept) | <u> </u> |
| <u>Recommendation:</u> | | | |
| <u>Decision:</u> | | | |

All agenda request forms must be submitted to Allison Wagner at BOC@co.houston.mn.us by 12:00 p.m. on Thursday in order to be considered for inclusion on the following week's agenda. The Board will review all requests and determine if the request will be heard at a County Board meeting.

Houston County Agenda Request Form

Date Submitted: April 30, 2024 **Board Date:** May 7, 2024

Person requesting appointment with County Board: Brian Pogodzinski

Issue:

Board to consider approving the work order under the MnDot Partnership agreement to have MnDot stripe our County Roads. The costs include \$.079/ft for 4" latex and \$.103/ft for 6" latex for a total estimated cost of \$124,094.94.

Attachments/Documentation for the Board's Review:

This project will be performed under CP 2024-05.

Justification:

The County Board previously approved using MnDot for striping in 2024. The MnDot Partnership Agreement is required prior to them performing the work.

Action Requested:

Board approval needed to accept the workorder under the MnDot Partnership agreement.

| For County Use Only | | | |
|-------------------------------|---|---|---|
| <u>Reviewed by:</u> | <div style="border-bottom: 1px solid black; margin-bottom: 5px;"></div> <div style="border-bottom: 1px solid black; margin-bottom: 5px;"></div> <div style="border-bottom: 1px solid black;"></div> | <div style="border-bottom: 1px solid black; margin-bottom: 5px;"></div> <div style="border-bottom: 1px solid black; margin-bottom: 5px;"></div> <div style="border-bottom: 1px solid black;"></div> | <div style="border-bottom: 1px solid black; margin-bottom: 5px;"></div> <div style="border-bottom: 1px solid black; margin-bottom: 5px;"></div> <div style="border-bottom: 1px solid black;"></div> |
| | County Auditor | County Attorney | Zoning Administrator |
| | Finance Director | County Engineer | Environmental Services |
| | IS Director | Other (indicate dept) | |
| <u>Recommendation:</u> | | | |
| <u>Decision:</u> | | | |

All agenda request forms must be submitted to Allison Wagner at BOC@co.houston.mn.us by 12:00 p.m. on Thursday in order to be considered for inclusion on the following week's agenda. The Board will review all requests and determine if the request will be heard at a County Board meeting.

**STATE OF MINNESOTA
WORK ORDER UNDER
MASTER PARTNERSHIP CONTRACT**

Project Description: Stripe multiple County roads

This Work Order Contract is issued under the authority of the State of Minnesota, Department of Transportation (MnDOT) Master Partnership Contract No. 1050106 between the state of Minnesota acting through its Commissioner of Transportation ("MnDOT") and Houston County, a political subdivision of the State of Minnesota ("Local Government") and is subject to all applicable provisions and covenants of that Contract which are incorporated herein by reference.

Work Order Contract

1. Term of Work Order Contract; Incorporation of Exhibits

- 1.1. **Effective date:** This Work Order Contract will be effective on the date that all required signatures are obtained by MnDOT, pursuant to Minnesota Statutes Section 16C.05, subdivision 2. The Local Government must not begin work under this Contract until ALL required signatures have been obtained and the Local Government has been notified in writing to begin such work by MnDOT's Authorized Representative.
- 1.2. **Expiration date:** This Work Order Contract will expire on 12/31/2024, or when all obligations have been satisfactorily fulfilled, whichever occurs first.
- 1.3. **Exhibits:** Exhibit A is attached and incorporated into this Work Order Contract.

2. Nature of Work

- 2.1. X the blanks below to indicate the nature of the work to be performed. See Article 3. Services Requiring a Work Order Contract, of the Master Partnership Contract for applicable definitions.
 - ☐ Contract Administration
 - ☐ Emergency Services
 - ☐ Professional/Technical Services
 - ☒ Roadway Maintenance

3. Scope of Work

- 3.1. MnDOT will perform services under this Work Order summarized generally as follows: MnDOT will provide refresh of existing lines or new longitudinal striping according to Exhibit A work plan. Timing will be at the discretion of Mn/DOT in coordination with the county.

4. Items provided or completed by the Parties

- 4.1. The following will be provided or completed by the Local Government: The county will provide a detailed striping work plan. Work plan will consist of the route number, beginning and end points, width of line, color of line, type of material, solid or broken line, Edge line, Center line, lane line, etc. County will also provide any timing considerations at the beginning and any point during the season. If new lines are requested the county will provide markings for guidance to the stripers.
- 4.2. The following will be provided or completed by MnDOT: MnDOT will provide longitudinal Striping at 12mil thickness, using MnDOT approved products, in widths and pattern as provided in Exhibit A workplan. MnDOT will provide all labor, equipment, and material to conduct the striping operation including providing traffic control in accordance with the MMUTCD, but may ask for assistance from county for traffic control in special circumstances. MnDOT will provide a stripers log for review and invoice with final quantities at the close of the season in the fall.

5. Consideration of Payment

- 5.1. The Local Government will pay for all services performed by MnDOT on a unit price basis. The unit prices for the 2024 season are \$.079/ft for 4" latex width and \$.103/ft for 6" latex width.
- 5.2. The Local Government's obligation for all compensation and reimbursements to MnDOT is estimated to be \$124,094.94. The final amount will be determined at the end of the season upon review of the striper log with the county.

6. Terms of Payment

- 6.1. The Local Government will pay MnDOT after execution of this work order and review of the striper log and receipt of the invoice.
- 6.2. After the work has been completed MnDOT will submit a striper log and invoice for the work completed.
- 6.3. Per Section 7.4 of the Master Partnership Contract;
 - 6.3.1. The Local Government will pay MnDOT as specified in this work order, and will make prompt payment in accordance with Minnesota law.
 - 6.3.2. Payment by the Local Government.
 - i. The Local Government will make payment to the order of the Commissioner of Transportation.
 - ii. **IMPORTANT NOTE:** Payment must reference the MnDOT Contract and Work Order Number shown on the face page of this contract and the MnDOT Invoice Number shown on the invoice.
 - iii. Remit payment to the address below:
MnDOT
Attn: Cash Accounting
RE: MnDOT Contract Number 1050106W02 and Invoice Number: 00000#####
(see note above)
Mail Stop 215
395 John Ireland Blvd
St. Paul, MN 55155

7. Authorized Representatives

- 7.1. MnDOT's Project Manager, for this Work Order is:
Name/Title: Mike Ehlert, or successor
MnDOT – Operations/Office of Maintenance
Street Address: 3485 Hadley Ave N
City State Zip: Oakdale MN 55128
Telephone: Office:651-366-4419 Cell :651-238-0001
Email: michael.ehlert@state.mn.us
- 7.2. MnDOT's Project Manager is responsible for overseeing MnDOT's fulfillment of its obligations under this Work Order, reviewing, providing and approving invoices, resolving disputes related to this Work Order, and for giving or receiving any notices required or permitted by this Work Order.
- 7.3. The Local Government's Project Manager for this Work Order is:
Name/Title: Brian Pogodzinski/Houston County Engineer
Street Address: 1124 E. Washington St.
City State Zip: Caledonia, MN 55921
Telephone: 507-725-3925
Email: Brian.Pogodzinski@co.houston.mn.us
- 7.4. The Local Government's Project Manager for this Work Order is responsible for overseeing the Local Government's fulfillment of its obligations under this Work Order, reviewing and approving invoices,

resolving disputes related to this Work Order, and for giving or receiving any notices required or permitted by this Work Order.

8. Termination

- 8.1. **Termination by MnDOT or Local Government.** The Local Government, MnDOT or the Commissioner of Administration may cancel this Work Order at any time, with or without cause, upon 30 days' written notice to the other Party. Upon termination, MnDOT will be entitled to payment, determined on a pro rata basis, for services satisfactorily performed.
- 8.2. **Termination for Insufficient Funding.** MnDOT may immediately terminate this Work Order if it does not obtain funding from the Minnesota Legislature, or other funding source; or if funding cannot be continued at a level sufficient to allow for the payment of the services covered here. Termination must be by written or fax notice to the Local Government. MnDOT is not obligated to pay for any services that are provided after notice and effective date of termination. However, the Local Government will be entitled to payment, determined on a pro rata basis, for services satisfactorily performed to the extent that funds are available. MnDOT will not be assessed any penalty if the Work Order is terminated because of the decision of the Minnesota Legislature, or other funding source, not to appropriate funds. MnDOT must provide the Local Government notice of the lack of funding within a reasonable time of MnDOT's receiving that notice.

9. Additional Provisions

- 9.1. NONE

[THE REMAINDER OF THIS PAGE HAS BEEN INTENTIONALLY LEFT BLANK.]

LOCAL GOVERNMENT

The Local Government certifies that the appropriate person(s) have executed the contract on behalf of the Local Government as required by applicable articles, bylaws, resolutions or ordinances.

By: _____

Title: _____

Date: _____

By: _____

Title: _____

Date: _____

COMMISSIONER OF TRANSPORTATION, as delegated

By:

Date:

COMMISSIONER OF ADMINISTRATION, as delegated

By:

Date:

Request for Year 2024 Latex Striping

1 = Left edge line

2 = Centerline

3 = Lane line

4 = Right Edge

Line(s):

| County | Route | Begin | End | True Center Line Miles | Line Width | Line(s) (1,2,3,4) | Total Line Miles | | Time Requested | Comments |
|---------|--------|----------|--------------------|------------------------|------------|----------------------|------------------|--------|----------------|--|
| | | | | | | | W 6" | Y 4" | Mo | |
| Houston | CR 1 | TH 76 | Beaver Park | 3.84 | | 2 | | 6.72 | | Go through the park to the end of pavement. |
| Houston | CR 3 | 9th St. | TH 26 | 0.475 | | 2 | | 0.66 | | City of Brownsville 9th St to TH 26 |
| Houston | CR 3 | TH 44 | East City Limits | 1.169 | 13.0 | 2,3,4 | 0.196 | 1.99 | | City of Caledonia, 6" WH Lane lines & Bike Lanes |
| Houston | CR 4N | TH 44 | TH 76 | 19.49 | | 2 | | 27.18 | | |
| Houston | CR 4S | TH 44 | Iowa State Line | 4.21 | | 2 | | 7.27 | | |
| Houston | CR 5 | CSAH 3 | 0.75 Mi S JCT 14 | 4.025 | 12.0 | 2,3,4 | 7.31 | 6.65 | | 6" WH Turn Lanes & Fog lines |
| Houston | CR 6 | TH 14/61 | Winona City Line | 8.62 | 12.0 | 2,3,4 | 16.65 | 12.20 | | 6" WH Lane, Bike & Skip. Add 6" WH Lane from CSAH 25 to S. Elm St |
| Houston | CR 7 | TH 16 | TH 26 | 2.72 | | 2 | | 3.53 | | |
| Houston | CR 8N | CSAH 33 | Fillmore City Line | 1.9 | | 2 | | 2.80 | | |
| Houston | CR 9 | TH 76 | Winona City Line | 7.128 | | 2 | | 8.13 | | |
| Houston | CR 10 | TH 76 N | TH 76 S | 9.85 | | 2 | | 15.03 | | |
| Houston | CR 11 | CSAH 4 | End of Pavement | 2.059 | 12.0 | 2,4 | 5.35 | 4.40 | | 6" WH Fog Line |
| Houston | CR 12 | TH 44 | End of Pavement | 4.215 | | 2 | | 6.18 | | |
| Houston | CR 14 | CSAH 5 | TH 26 | 11.817 | | 2 | | 19.25 | | |
| Houston | CR 15 | CSAH 4 | Fillmore City Line | 3.26 | | 2 | | 5.57 | | |
| Houston | CR 17 | TH 76 | TH 44 | 6.664 | | 2 | | 9.35 | | |
| Houston | CR 18 | TH 44 | CSAH 3 | 7.327 | 11.0 | 2,4 | 2.17 | 9.84 | | 6" WH Lane lines in Brownsville and Hockley City limits only. |
| Houston | CR 20W | TH 76 | TH 44 | 1.02 | | 2 | | 2.01 | | |
| Houston | CR 20E | TH 44 | End of Pavement | 3.043 | | 2 | | 3.33 | | |
| Houston | CR 21 | CSAH 9 | TH 16 | 11.304 | | 2 | | 15.60 | | |
| Houston | CR 22 | TH 76 | End of Pavement | 2.683 | | 2 | | 3.00 | | |
| Houston | CR 24 | CSAH 3 | CR 249 | 1.298 | | 2 | | 2.16 | | Skip the center portion that is sealcoated and not currently painted |
| Houston | CR 25S | TH 16 | CSAH 21 | 1.54 | | 2 | | 3.04 | | |
| Houston | CR 25N | CSAH 21 | CSAH 6 | 10.64 | 12.0 | 2,4 | 1.34 | 18.92 | | 6" WH Lane lines in LaCrescent city limits only |
| Houston | CR 26W | TH 76 | Fillmore City Line | 6.85 | | 2 | | 13.38 | | |
| Houston | CR 26E | TH 76 | Winona City Line | 3.16 | | 2 | | 4.76 | | Winona City Line is where the pavement ends |
| Houston | CR 27 | TH 76 | TH 44 | 9.483 | | 2 | | 15.50 | | |
| Houston | CR 29 | CSAH 6 | Winona City Line | 1.543 | 12.0 | 2,3,4 | 2.84 | 2.67 | | 6" WH lane, Bike & Skip |
| Houston | CR 33 | TH 44 | CSAH 8 | 2.67 | | 2 | | 4.19 | | |
| Houston | CR 249 | CSAH 5 | End of Pavement | 8.466 | | 2 | | 15.47 | | End of pavement is in the village of Freeburg |
| TOTALS | | | | | | | 35.86 | 250.75 | | |

Note: All of the above listed roads will get 4" yellow centerline markings. CSAH's 3, 18, & 25N will get 6" White in the City limits only. CSAH's 5, 6, 11, & 29 will get 6" White on everything that is currently painted. We will add 6" White on CSAH 6 in the City of LaCrescent from CSAH 25 to S. Elm St.

District Request for Year 2024 Epoxy Striping

Statewide Pavement Marking Committee

Line(s):

1= Left edge line

2 = Centerline

3 = Lane line

4 = Right Edge

[illegible]

Houston County Agenda Request Form

Date Submitted: April 30, 2024 **Board Date:** May 7, 2024

Person requesting appointment with County Board: Brian Pogodzinski

Issue:

Board to consider pavement marking quotes to paint road symbols on various Houston County Roads.

Attachments/Documentation for the Board's Review:

Abstract for CP 2024-09

This will be available on Monday afternoon, May 6, 2024.

Reminder: Unit prices are not public until after the award.

Justification:

This is a budgeted item and part of our regular maintenance program.

Action Requested:

Board approval needed to accept bid.

| For County Use Only | | | |
|-------------------------------|------------------------|-----------------------------|------------------------------|
| <u>Reviewed by:</u> | _____ County Auditor | _____ County Attorney | _____ Zoning Administrator |
| | _____ Finance Director | _____ County Engineer | _____ Environmental Services |
| | _____ IS Director | _____ Other (indicate dept) | _____ |
| <u>Recommendation:</u> | | | |
| <u>Decision:</u> | | | |

All agenda request forms must be submitted to Allison Wagner at BOC@co.houston.mn.us by 12:00 p.m. on Thursday in order to be considered for inclusion on the following week's agenda. The Board will review all requests and determine if the request will be heard at a County Board meeting.

Houston County Agenda Request Form

Date Submitted: April 30, 2024

Board Date: May 7, 2024

Person requesting appointment with County Board: Brian Pogodzinski

Issue:

The Highway department solicited quotes for CP 2024-10, for Stockpile Aggregate, Class 5 Delivered (maintenance rock) for various highways in Houston County.

Attachments/Documentation for the Board's Review:

Abstract for CP 2024-10 Stockpile Aggregate, Class 5 Delivered (maintenance rock)

This will be available on Monday afternoon, May 6, 2024.

Reminder: Unit prices are not public until after the award.

Justification:

Action Requested:

Board approval needed to accept the lowest responsible quote per road. This may result in multiple contracts.

| For County Use Only | | | |
|-------------------------------|------------------------|-----------------------------|------------------------------|
| <u>Reviewed by:</u> | _____ County Auditor | _____ County Attorney | _____ Zoning Administrator |
| | _____ Finance Director | _____ County Engineer | _____ Environmental Services |
| | _____ IS Director | _____ Other (indicate dept) | _____ |
| <u>Recommendation:</u> | | | |
| <u>Decision:</u> | | | |

All agenda request forms must be submitted to Allison Wagner at BOC@co.houston.mn.us by 12:00 p.m. on Thursday in order to be considered for inclusion on the following week's agenda. The Board will review all requests and determine if the request will be heard at a County Board meeting.

Houston County Agenda Request Form

This form is not intended for the general public. It is intended for use by county department heads, representatives of other governmental units or vendors/agencies who contract with Houston County. Members of the public may address the Board during the Public Comment Period. (See Policy for Public Comment Period).

Date Submitted: 30-Apr-24

Person requesting appointment with County Board: DeeDee Vick for Martin Herrick

Issue:

Rezone Approval/Denial:1) Jason and Amber Wieser - Rezone an area from the Agricultural Protection District to Residential District in La Crescent Township.

Justification:

Final Approval by the County Board. (Agenda, Hearing Notices, Findings and Board Packets are attached.)

Action Requested:

| | | |
|-------------------------------|--|--|
| For County Use Only | | |
| <u>Reviewed by:</u> | <div style="margin-bottom: 5px;">_____ County Auditor</div> <div style="margin-bottom: 5px;">_____ Finance Director</div> <div style="margin-bottom: 5px;">_____ IS Director</div> | <div style="margin-bottom: 5px;">_____ County Attorney</div> <div style="margin-bottom: 5px;">_____ County Engineer</div> <div style="margin-bottom: 5px;">_____ Other (indicate dept) _____</div> |
| | | <div style="margin-bottom: 5px;">_____ Zoning Administrator</div> <div style="margin-bottom: 5px;">_____ Environmental Services</div> |
| <u>Recommendation:</u> | | |
| <u>Decision:</u> | | |

All agenda request forms must be submitted to the County Auditor by 4:00 p.m. on Monday in order to be considered for inclusion on the following week's agenda. The Board will review all requests and determine if the request will be heard at a County Board meeting.

**HOUSTON COUNTY
BOARD OF ADJUSTMENT AND
PLANNING COMMISSION
Thursday, April 25, 2024**

Hearings are in the Houston County Commissioner's Room.
Please enter through the west entrance. Doors will open at 4:45 pm.

PLANNING COMMISSION

Approve Minutes for January 25, 2024.

REZONE HEARING

5:00 pm ***Jason & Amber Wieser – La Crescent Township***
Rezone an area from Agricultural Protection District to Residential District. (Section 8 Subdivision 2).

BOARD OF ADJUSTMENT

Approve Minutes for February 22, 2024.

VARIANCE HEARING:

5:30 pm ***Benjamin & Emily Wieser – La Crescent Township***
1. Variance to reduce setback from top of bluff for a proposed dwelling (Section 29.17 Subdivision 2).

5:50 pm ***Kevin & Katherine Jumbeck – Money Creek Township***
1. Variance to reduce front yard setback requirements for proposed accessory structure addition (Section 14 – 14.8 Subdivision 3).
2. Variance to place an accessory structure ahead of principle building (Section 29.14 Subdivision 1(2)).

6:10 pm ***Peter Shufflebotham & Kate Woodward – Hokah Township***
1. Variance to reduce front yard setback requirements for proposed dwelling (Section 14.7 Subdivision 3).
2. Variance to reduce setback from toe of bluff for a proposed dwelling (Section 29.17 Subdivision 2).
3. Variance to reduce rear yard setback standards (Section 14.9 Subdivision 1).

NOTICE OF PUBLIC HEARING

PLEASE TAKE NOTICE:

That an application has been made by Jason Wieser, 4017 County 6, La Crescent MN 55947, to Rezone (Section 8.2, Subdivision 2) an area from Agricultural Protection District to Residential in La Crescent Township on following premises, to-wit:

PT NW1/4 NW1/4, Section 7, Township 104, Range 4, Houston County, Minnesota. (Parcel 08.0089.001)

Said applicants standing and making application are as fee owner of said described lands.

A hearing on this application will be held at the Houston County Commissioner's Room, City of Caledonia, Minnesota at 5:00 p.m. on Thursday, April 25, 2024.

All persons having an interest in the matter will be given the opportunity to submit comments relative to the granting or denying of said application. Comments should be mailed to the Environmental Services Dept., 304 South Marshall Street, Caledonia, MN 55921, or emailed to martin.herrick@co.houston.mn.us, and must be received by Tuesday, April 16, 2024. Comments in regard to the petition received by this date will be part of the public record and will be made available for review by the Planning Commission prior to the meeting.

HOUSTON COUNTY PLANNING COMMISSION

By Martin Herrick
Zoning Administration

ADV: April 10, 2024

**CRITERIA FOR GRANTING ZONING AMENDMENTS
(0110.0801)**

HOUSTON COUNTY PLANNING COMMISSION

RELATIVE TO APPLICATION BY

Jason Wieser and Amber Wieser 4/25/24

The County Board may adopt amendments to the Zoning Ordinance and Zoning Map in relation both to land uses within a particular district or to the location of the district lines. Such amendments shall not be issued indiscriminately, but shall only be used as a means to reflect changes in the goals and policies of the community as reflected in the Policies Plan or changes in conditions in the County.

Subdivision 2. Applications to Change District Boundaries or Land Use.

1. The property at 4017 County 6, La Crescent, Mn is zoned Agricultural Protection District and is approximately 1.89 miles from the City of La Crescent.

Board agreed to the finding by a unanimous vote.

2. The City of La Crescent Comprehensive Land Use Plan for future land use identifies La Crescent Township within two miles of the current city limits.

Board agreed to the finding by a unanimous vote.

3. The Houston County Comprehensive Land Use Plan in Chapter 2, Policy 1. Identifies limiting development in agricultural areas unless identified for development under city capital improvement plans or city comprehensive plans.

Board agreed to the finding by a unanimous vote.

4. Parcel 08.0089.001 meets the requirements for lot setbacks and septic systems in the residential district.

Board agreed to the finding by a unanimous vote.

5. The soils on parcels PID 08.0089.001 & PID 08.0077.001 are not prime agricultural soils ranging from a land capability classification of 6e to 7e.

Board agreed to the finding by a unanimous vote.

6. The rezoning will remove this dwelling from the one dwelling per quarter-quarter density standard for the Agricultural Protection District in the NW ¼-NW ¼. And allow the proposed dwelling for PID 08.0089.000 to be located on non-prime ag land in this quarter-quarter.

Board agreed to the finding by a unanimous vote.

Chairwoman Wright asked members if they had any findings to add.

Chairwoman Wright asked that the Findings be adopted if there were no additional questions or concerns.

Greg Myhre made a motion to accept the findings as presented. James Wieser seconded. Roll call vote was taken.

| | Yes | No | SA | Comment |
|----------------------|-----|----|----|---------|
| Jim Wieser | X | | | |
| Johnathon Glasspoole | X | | | |
| Larry Gaustad | X | | | |
| Josh Gran | | | | |
| Wayne Feldmeier | X | | | |
| Cindy Wright | X | | | |
| Greg Myhre | X | | | |

All were in favor. Motion carried. The Findings and application will be presented to the Houston County Board of Commissioners for final action on May 7th, 2024.



HOUSTON COUNTY ENVIRONMENTAL SERVICES

Solid Waste • Recycling • Zoning
304 South Marshall Street – Room 209, Caledonia, MN 55921
Phone: (507) 725-5800 • Fax: (507) 725-5590



STAFF REPORT

Application Date: 3/21/24
Hearing Date: 4/25/24
Petitioner: Jason & Amber Wieser
Reviewer: Martin Herrick
Zoning: Ag Protection
Address: 4017 County 6
Township: La Crescent
Parcel Numbers: 08.0089.001 & 08.0077.001
Submitted Materials Zoning Amendment Application

OVERVIEW

REQUEST

The applicants request to amend the zoning map to change parcels PID 08.0089.001 & PID 08.0077.001 from Agricultural Protection District to Residential District.

SUMMARY OF NOTEWORTHY TOPICS

The applicants are proposing to rezone in order to open the quarter-quarter section in the Agriculture Protection District for a proposed single-family dwelling on parcel PID 08.0089.000.

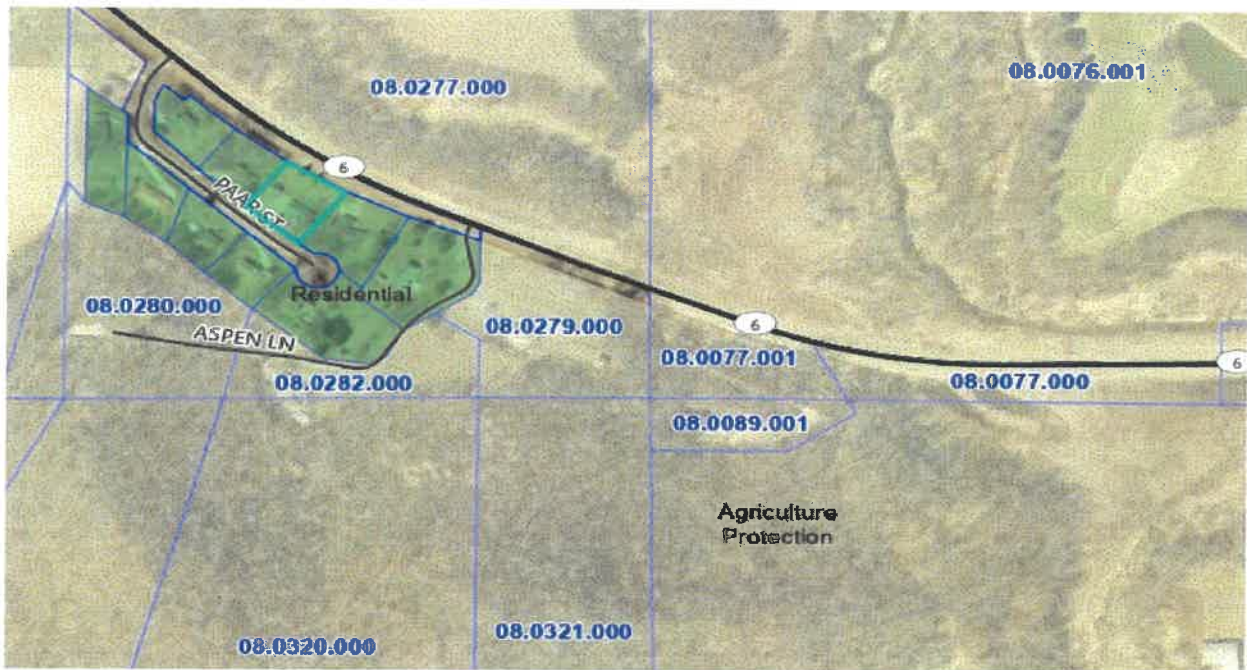
An application for rezoning the parcel to Residential from the Agriculture Protection District was submitted on March 21, 2024. Additionally, the neighboring parcel PID 08.0089.000 has a variance request being reviewed that is linked to this and is predicated on the rezoning being approved.

TOWNSHIP AND NEIGHBORHOOD COMMENTS

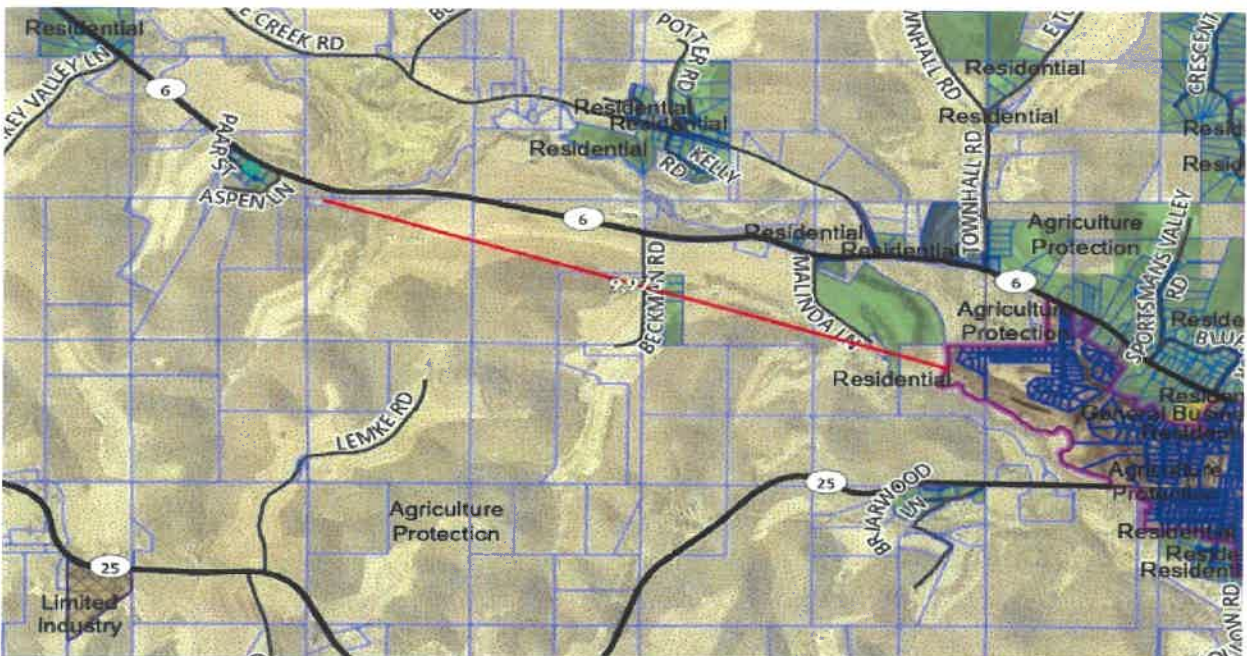
No comments have been received to date.

SITE CHARACTERISTICS

No activities are proposed for parcels PID 08.0089.001 & PID 08.0077.001 associated with this rezoning request. On 9/28/2004 La Crescent Township granted a permit for a single-family dwelling with an attached garage. The parcel is approximately 1.9 miles from the City of La Crescent and is between the Golf View Addition Subdevelopment and the city of La Crescent.



**Parcels 08.0089.001 & 08.0077.001 proximity to Residential District
Figure 1.**



**Parcel 08.0089.001 & 08.0077.001 proximity to the City of La Crescent
Figure 2.**

EVALUATION

Section 8.6 of the Houston County Zoning Ordinance requires that the Board make findings in support of a decision but does not prescribe specific criteria. The following findings are proposed by staff for your consideration. Please consider formulating additional findings as you see fit.

1. The property at 4017 County 6, La Crescent, Mn is zoned Agricultural Protection District and is approximately 1.89 miles from the City of La Crescent.
2. The City of La Crescent Comprehensive Land Use Plan for future land use identifies La Crescent Township within two miles of the current city limits.
3. The Houston County Comprehensive Land Use Plan in Chapter 2, Policy 1. identifies limiting development in agricultural areas unless identified for development under city capital improvement plans or city comprehensive plans.
4. Parcel 08.0089.001 meets the requirements for lot setbacks and septic systems in the residential district.
5. The soils on parcels PID 08.0089.001 & PID 08.0077.001 are not prime agricultural soils ranging from a land capability classification of 6e to 7e.
6. The rezoning will remove this dwelling from the one dwelling per quarter-quarter density standard for the Agricultural Protection District in the NW ¼-NW ¼. And allow the proposed dwelling for PID 08.0089.000 to be located on non-prime ag land in this quarter-quarter.

RECOMMENDATION

Should the permit be granted, staff recommend requiring the following conditions:

1. The permittee shall comply with all federal, state, and local laws and regulations
2. The county may enter onto the premises at reasonable times and in a reasonable manner to ensure the permit holder is in compliance with the conditions and all other applicable statutes, rules and ordinances.

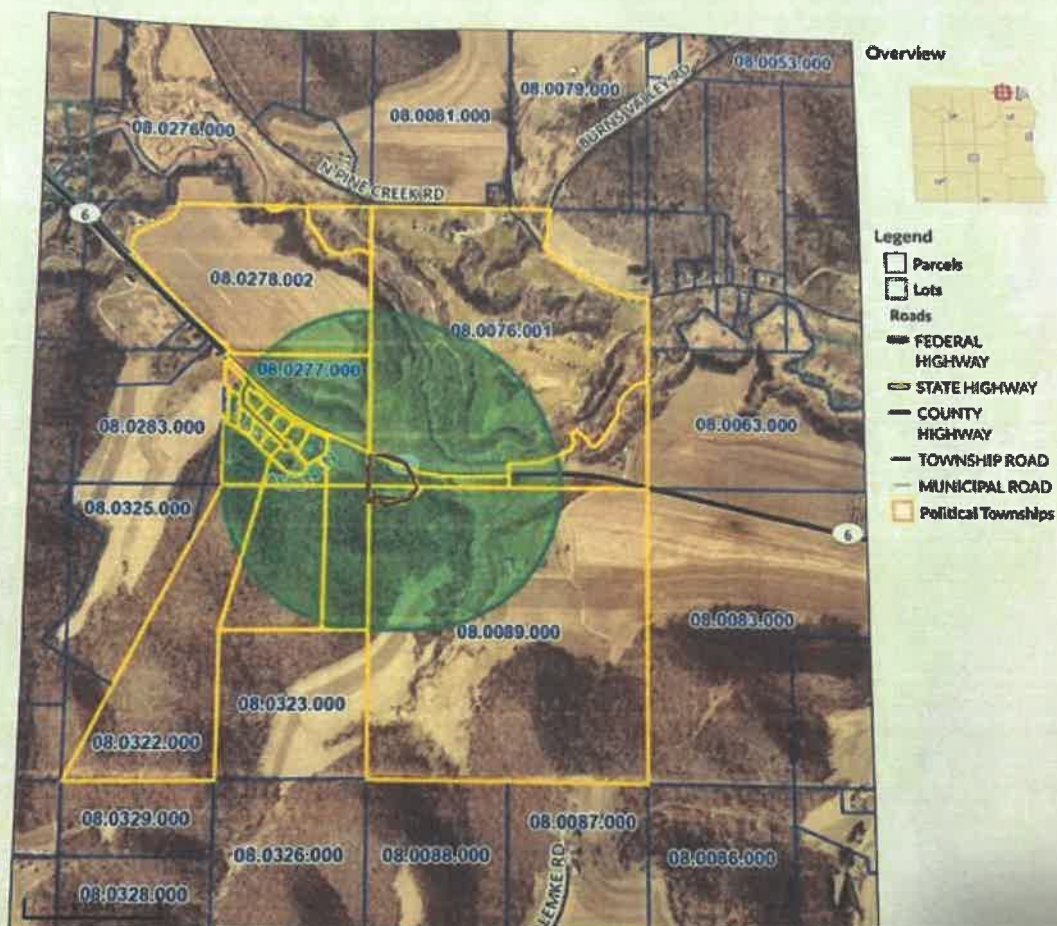
#1

This petition is to rezone Jason and Amber
Wieser property from the Ag Zone to Residential
located at 4017 County road 6 in La Crescent
township

Jason Wieser - Jason Wieser
4017 County 6
La Crescent, MN 55947

Ben Wieser Ben Wieser
821 Town Hall Rd
La Crescent, MN 55947

#2

Beacon™ Houston County, MN

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GEOGRAPHICAL

#2

Jason & Amber Wieser
 Parcel ID 080089001 and 080077001
 to be rezoned Residential

Neighbors within $\frac{1}{4}$ mile

Bert & Emily Wieser 3755 City Rd 6 La Crescent
 (Hstcd Agricultural)

| | | | |
|---------------------------|------|-----------|-------------|
| Alan & Diane Engstler | 4097 | Aspen Ln. | La Crescent |
| James & Kathleen Kluck | 4191 | Aspen Ln. | La Crescent |
| Thomas & Cindy Wright | 4250 | Aspen Ln. | La Crescent |
| James & Jo Humfeld | 4249 | Pear St | La Crescent |
| Daniel & Renee Foster | 4201 | Pear St | La Crescent |
| Joelynn Bauer | 4181 | Pear St. | La Crescent |
| Thomas & Kathryn Ready | 4145 | Pear St. | La Crescent |
| Robert & Beryl Wittbrodt | 4082 | Aspen Ln. | La Crescent |
| James & Jeanne Deussen | 4077 | City Rd 6 | La Crescent |
| Allen & Lisa Wiebke | 4160 | Pear St. | La Crescent |
| Jonathan & Ashley Edwards | 4190 | Pear St. | La Crescent |
| Adrian Sholes | 4200 | Pear St | La Crescent |

all of these are Residential
 located in a sub division

#3

currently it's in the Jg district and want
it to be in residential

#4

The use will be the same as before just want
it Residential like the majority of the houses are
next to it now

#5

The parcel is located within 2 miles of the city limits and there is a housing subdivision located next to it

#6

Houston County, MN

Summary

Parcel ID: 080087001
 Property Address: 4017 COUNTY 6
 LA CRESCENT
 57-104-004
 Sec-07 Pwp-104 Range-004 1.39 AC PT NW2M5NW1/4 DOC #235314; DOC
 2518-59
 (Note: Not to be used on legal documents)
 Deeded Acres: 1.39
 Class: 201 - 01STD) RESIDENTIAL
 District: (801) LCSTL/SD300/104
 School District: 0300



Owner

Primary Taxpayer
 Jason P. & Amber West
 4017 County 6
 LA Crescent, MN 55947

Residential Buildings

Residential Dwelling
 Occupancy: Single-Family / Owner Occupied
 Style: 1 Story Frame
 Architectural Style: Ranch
 Year Built: 2004
 Exterior Material: Vinyl/Other
 Total Gross Living Area: 1,620 SF
 Attic Type: None
 Number of Rooms: 4 above; 0 below
 Number of Bedrooms: 3 above; 0 below
 Basement Area Type: Full
 Basement Area: 1,620
 Basement Finished Area: 010 - Living Qtrs. w/ Walk-out
 Plumbing: 2 Standard Bath - 3 Fixt: 1 Toilet Room (1/2 Bath)
 Central Air: Yes
 Heat: LP Gas
 Fireplaces: 1 Prefab.
 Porches:
 Decks: Wood Deck (336 SF);
 Additions:
 Garages: 750 SF (25F W x 30F L) - Att Frame (Built: 2004);

Recent Sales In Area

Sale date range:

From: 03/18/2021

To: 03/18/2024

Sales by Neighborhood

Sales by Subdivision

1500

Feet



Sales by Distance

Valuation

| | 2023 Assessment | 2022 Assessment | 2021 Assessment | 2020 Assessment | 2019 Assessment |
|-----------------------------|-----------------|-----------------|-----------------|-----------------|-----------------|
| • Estimated Building Value | \$254,800 | \$276,000 | \$207,900 | \$184,800 | \$187,300 |
| • Estimated Land Value | \$43,700 | \$43,700 | \$43,700 | \$43,700 | \$43,600 |
| • Estimated Machinery Value | \$0 | \$0 | \$0 | \$0 | \$0 |
| • Estimated Market Value | \$298,500 | \$319,700 | \$251,600 | \$228,500 | \$230,900 |

#6

Houston County, MN

Summary

Parcel ID 080077001
 Property Address 06-104-004
 Sec/Twp/Rng Sect-06 Twp-104 Range-004 1.85 AC PT SW 1/4 DOC #225314; DOC 251859
 Brief Tax Description (Note: Not to be used on legal documents)
 Deeded Acres 1.85
 Class 201 - (HSTD) RESIDENTIAL
 District (801) UCSTT/SD300/FD4
 School District 0300

Owner

Primary Taxpayer
 Jason P. & Joanne Wieser
 4017 County 6
 LA Center, MN 55947

Sales

| Date | Seller | Buyer | Recording | eCRV | Sale Condition - NUTC | Type | Mult Parcel | Amount |
|-----------|-------------------------|--------------|-----------|------|-----------------------|------|-------------|-------------|
| 9/20/2004 | WIESER CHARLES & JOANNE | WIESER JASON | | | | N/A | | \$16,200.00 |

Recent Sales In Area

Sale date range:

From: 03/18/2021 To: 03/18/2024

Sales by Neighborhood

Sales by Subdivision

1500

Feet

Sales by Distance

Valuation

| | 2023 Assessment | 2022 Assessment | 2021 Assessment | 2020 Assessment | 2019 Assessment |
|-----------------------------|-----------------|-----------------|-----------------|-----------------|-----------------|
| + Estimated Building Value | \$0 | \$0 | \$0 | \$0 | \$0 |
| + Estimated Land Value | \$5,800 | \$5,800 | \$5,800 | \$5,800 | \$4,700 |
| + Estimated Machinery Value | \$0 | \$0 | \$0 | \$0 | \$0 |
| = Estimated Market Value | \$5,800 | \$5,800 | \$5,800 | \$5,800 | \$4,700 |

Taxation

| | 2023 Payable | 2022 Payable | 2021 Payable | 2020 Payable |
|------------------------|--------------|--------------|--------------|--------------|
| Estimated Market Value | \$5,800 | \$5,800 | \$5,800 | \$4,700 |
| - Homestead Exclusion | \$0 | \$0 | \$0 | \$0 |
| = Taxable Market Value | \$5,800 | \$5,800 | \$5,800 | \$4,700 |
| Net Taxes Due | \$72.00 | \$82.00 | \$84.00 | \$70.00 |
| + Special Assessments | \$0.00 | \$0.00 | \$0.00 | \$0.00 |
| = Total Taxes Due | \$72.00 | \$82.00 | \$84.00 | \$70.00 |

#7

Beacon™ Houston County, MN

Overview



Legend

- Parcels
- Lots
- Roads**
 - FEDERAL HIGHWAY
 - STATE HIGHWAY
 - COUNTY HIGHWAY
 - TOWNSHIP ROAD
 - MUNICIPAL ROAD
- Political Townships

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GEOSPATIAL

Commissioner Warrants 2024/05/07

Lynn Colsch

Thu 5/2/2024 12:29 PM

To: Houston County BOC <BOC@co.houston.mn.us>;

Cc: Carol Lapham <Carol.Lapham@co.houston.mn.us>; Susan Tostenson <Susan.Tostenson@co.houston.mn.us>;

REQUEST APPROVAL FOR PAYMENT

2024/05/07 COMMISSIONER'S WARRANTS:

| VENDOR NAME | AMOUNT |
|-------------------------------------|------------------------|
| CALEDONIA OIL CO INC | 4,470.00 |
| CEDA | 7,107.69 |
| CITY OF CALEDONIA | 13,063.62 |
| CITY OF LA CRESCENT TREASURER | 5,000.00 |
| EHLERS | 3,750.00 |
| GOVERNMENTJOBS.COM INC | 8,277.31 |
| HOUSTON COUNTY TREASURER | 209,241.94 |
| IUOE LOCAL 49 FRINGE BENEFIT FUNDS | 25,075.00 |
| KRAUS OIL CO | 4,500.00 |
| LIBERTY TIRE RECYCLING LLC | 6,861.10 |
| MASTERS TOUCH INC | 4,834.47 |
| MINNESOTA ENERGY RESOURCES | 108,362.40 |
| MN LIFE INSURANCE COMPANY | 2,428.80 |
| MN UI FUND | 2,364.77 |
| VERIZON WIRELESS | 3,393.68 |
| VISA | 9,205.71 |
| WILDCAT CREEK MANAGEMENT | 13,000.00 |
| WINONA CONTROLS INC | 6,139.35 |
| WS TRUCKING & CONSTRUCTION | 2,137.50 |
| | <hr/> 439,213.34 |
| 41 VENDORS PAID LESS THAN \$2000.00 | <hr/> 24,818.59 |
| | <hr/> 464,031.93 |
| PUBLIC HEALTH & HUMAN SERVICES | <hr/> 10,084.30 |
| | <hr/> <hr/> 474,116.23 |

Lynn Colsch
Finance Clerk
Houston County
304 South Marshall Street
Caledonia MN 55921