

STATE OF MICHIGAN

DEPARTMENT OF TECHNOLOGY, MANAGEMENT & BUDGET GRETCHEN WHITMER GOVERNOR

LANSING

**BROM STIBITZ** DIRECTOR

At

# **Connecting Michigan Communities Grant Confidential Treatment Form and the Freedom of Information Act**

CONFIDENTIAL TREATMENT FORM AND THE FREEDOM OF INFORMATION ACT. All portions of the Applicant's proposal and resulting award are subject to disclosure as required under Michigan's Freedom of Information Act (FOIA), MCL 15.231, et seq. However, some information may be exempt from disclosure. Under MCL 18.1261(13)(b), records containing "a trade secret as defined under section 2 of the uniform trade secrets act, 1998 PA 448, MCL 445.1902," are exempt from disclosure under FOIA. In addition, "financial or proprietary information" submitted with a proposal is exempt from disclosure under FOIA. An applicant's failure to comply with this Section is grounds for rejecting an applicant's proposal as non-responsive. As a part of its proposal, each applicant must follow the procedure below.

- 1. SUBMIT A COMPLETED "CONFIDENTIAL TREATMENT FORM" (CT FORM) WITH YOUR APPLICATION. Completion and submission of the CT Form is required regardless of whether the Applicant seeks confidential treatment of information. Failure to submit a completed CT Form may be cause for disgualification from the application process.
  - a. Complete and sign Section 1 of the CT Form if the Applicant does NOT request confidential treatment of information contained in its proposal; or
  - b. Complete and sign Section 2 of the CT Form if the Applicant requests confidential treatment of certain information. Applicant must also submit a "Public Copy" of the proposal with the trade secret, financial, and proprietary information redacted and clearly labeled as the "Public Copy."
- 2. FOIA REQUESTS. If a FOIA request is made for an Applicant's proposal, the Public Copy may be distributed to the public along with the Applicant's CT Form. The CT Form is a public document and serves as an explanation for the redactions to the Public Copy. Do not put any trade secret, financial, or proprietary information in the CT Form. Do not redact the CT Form itself.
- 3. NO ADVICE. The State will not advise an Applicant as to the nature or content of documents entitled to protection from disclosure under FOIA or other laws, as to the interpretation of such laws, or as to the definition of trade secret or financial or proprietary information. Nothing contained in this provision will modify or amend requirements and obligations imposed on the State by FOIA or other applicable law.
- 4. FAILURE TO REQUEST CONFIDENTIAL TREATMENT. Failure to request material be treated as confidential as specified herein relieves the State, its agencies, and personnel from any responsibility for maintaining material in confidence.
- 5. Applicants containing a request to maintain an entire proposal as confidential may be rejected as non-responsive. The State reserves the right to determine whether material designated as

exempt by an Applicant falls under MCL 18.1261 or other applicable FOIA exemptions. If a FOIA request is made for materials that the Applicant has identified as trade secret, financial, or proprietary information, the State has the final authority to determine whether the materials are exempt from disclosure under FOIA.

6. Applicant forever releases the State, its departments, subdivisions, officers, and employees from all claims, rights, actions, demands, damages, liabilities, expenses and fees, which arise out of or relate to the disclosure of all or a portion of an Applicant's proposal submitted under this grant program. Applicant must defend, indemnify and hold the State, its departments, subdivisions, officers, and employees harmless, without limitation, from and against all actions, claims, losses, liabilities, damages, costs, attorney fees, and expenses (including those required to establish the right to indemnification), arising out of or relating to any FOIA request, including potential litigation and appeals, related to the portion of Applicant's proposal submitted under this grant program that the Applicant has identified as a trade secret, or financial or proprietary information. The State will notify the Applicant in writing if indemnification is sought. The State is entitled to: (i) regular updates on proceeding status; (ii) participate in the defense of the proceeding; (iii) employ its own counsel; and to (iv) retain control of the defense, or any portion thereof, if the State deems necessary. Applicant will not, without the State's written consent (not to be unreasonably withheld), settle, compromise, or consent to the entry of any judgment in or otherwise seek to terminate any claim, action, or proceeding. If a State employee, official, or law is involved or challenged, the State may control the defense of that portion of the claim. Any litigation activity on behalf of the State, or any of its subdivisions under this Section, must be coordinated with the Department of Attorney General. An attorney designated to represent the State may not do so until approved by the Michigan Attorney General and appointed as a Special Assistant Attorney General.

### **CONFIDENTIAL TREATMENT FORM (CT FORM)**

INSTRUCTIONS: Complete either Section 1 or Section 2 of this CT Form and sign where indicated. This CT Form must be signed by the individual who signed the grant application. A completed CT Form must be submitted with your proposal, regardless of whether your proposal contains confidential information. Failure to submit a completed CT Form with your application is grounds for rejecting the proposal as non-responsive. See Section 4.1.5 of the CMIC 2.0 Grant Application Instructions Overview for additional information.

#### Section 1. Confidential Treatment Is Not Requested

This section must be completed, signed, and submitted with the proposal if the Applicant does not request confidential treatment of any material contained in the proposal.

By signing below, the Applicant affirms that confidential treatment of material contained in the proposal is not requested.

**Project Name** 

Signature

Date

[Printed Name]

[Title]

[Company]

#### Section 2. Confidential Treatment Is Requested

The section must be completed, signed, and submitted with the proposal if bidder requests confidential treatment of any material contained in the proposal. Submission of a completed CT Form is required to request confidential treatment.

Provide the information in the table below. Applicant may add rows or additional pages using the same format shown in the table. Applicant must specifically identify the information to be protected as confidential and state the reasons why protection is necessary. The CT Form will not be considered fully complete unless, for each confidentiality request, the Applicant: (1) identifies whether the material is a trade secret (TS), financial information (FI), or proprietary information (PI); (2) explains the specific legal grounds that support treatment of the material as TS, FI, or PI; and (3) provides the contact information for the person at bidder's organization authorized to respond to inquiries by the State concerning the material. Applicants must not simply cite to an applicable act or case name; rather, bidders must provide a complete justification as to how the material falls within the scope of an applicable act or relevant case law.

Application page #, paragraph #, and section #	State whether the material is a trade secret (TS), financial information (FI), or proprietary information (PI)	Explain the specific grounds in State or other applicable law which supports treatment of the material as TS, FI, or PI. Do not simply cite to the applicable act. Provide a complete justification as to how the material falls within the scope of the applicable act or relevant case law.	Provide the Applicant contact information
Attachment 2, .kml file		The .kml file created for Attachment_2 shows in further detail strategic deployment locations referenced in attachment 1, page 1. Additionally, the map shows site specific information, fiber-optic mapping, project engineering details, and provides an overall network map for the proposed project. If this information were to become public, it would allow competing businesses to anticipate deployment locations and potentially disrupt operations. For this reason, the attachment has been omitted from our public application.	Chief of Staff Matthew.sams@mercury broadband.com (800) 354-4915 x504
Attachment 7, Page 5	Information	Consolidated Balance Sheets for December 31, 2018	Matthew Sams Chief of Staff Matthew.sams@mercury broadband.com (800) 354-4915 x504
Attachment 7, page 6	Information	Attachment 7, page 6 contains a copy of Mercury's Liability and Stockholders' Equity for December 31, 2018 and 2019. If this information were to become public, it would expose financial data and performance which would put the company at a competitive disadvantage exposing sensitive financial information.	Matthew Sams Chief of Staff Matthew.sams@mercury broadband.com (800) 354-4915 x504
Attachment 7, Page 7	Information	Consolidated Statements of Income for December 31, 2018 and 2019. If this information were to become	Matthew Sams Chief of Staff Matthew.sams@mercury broadband.com (800) 354-4915 x504
Attachment 7, Page 8	Information	Consolidated Statements of Stockholders' Equity for	Matthew Sams Chief of Staff Matthew.sams@mercury broadband.com (800) 354-4915 x504
Attachment 7, Page 9	Information	Consolidated Statements of Cash Flows for December 31, 2018 and 2019. If this information were to become	Matthew Sams Chief of Staff Matthew.sams@mercury broadband.com (800) 354-4915 x504

	Financial Information	Attachment 7, page 10 paragraph 4 contains information regarding Mercury's cash position at the end of 2019. Paragraph 5 contains details on Mercury's receivables and collections schedule. Paragraph 6 contains details on Mercury's assets. If this information were to become public, it would expose financial data and performance which would put the company at a competitive disadvantage	Matthew Sams Chief of Staff Matthew.sams@mercury broadband.com (800) 354-4915 x504
,	Financial Information	exposing sensitive financial information. Attachment 11, page 11, paragraph 3 contains Mercury's depreciation schedule. If this information were to become public, it would expose financial data and performance which would put the company at a competitive disadvantage exposing sensitive financial information.	Matthew Sams Chief of Staff Matthew.sams@mercury broadband.com (800) 354-4915 x504
,	Financial Information	Attachment 7, page 13, paragraph 2 contains information on advertising expenses in 2018 and 2019. Paragraph 3 contains sensitive employee compensation information. Paragraph 6 contains information for property, plant, and equipment for 2018 and 2019. If this information were to become public, it would expose financial data and performance which would put the company at a competitive disadvantage exposing sensitive financial information.	Matthew.sams@mercury broadband.com
,	Financial Information	Attachment 7 note 3 contains sensitive financial information for Mercury's Intangible Assets and Goodwill for 2018 and 2019. If this information were to become public, it would expose financial data and performance which would put the company at a competitive disadvantage exposing sensitive financial information.	Matthew Sams Chief of Staff Matthew.sams@mercury broadband.com (800) 354-4915 x504
	Financial information	Attachment 7 note 4 contains detailed information on Mercury's Long-Term Debt obligations. If this information were to become public, it would expose financial data and performance which would put the company at a competitive disadvantage exposing sensitive financial information.	Matthew Sams Chief of Staff Matthew.sams@mercury broadband.com (800) 354-4915 x504
	Financial Information	Attachment 7 page 16 contains more information on Mercury's notes on its consolidated financial statements which presents financial detail to accompany the summary. If this information were to become public, it would expose financial data and performance which would put the company at a competitive disadvantage exposing sensitive financial information.	Matthew Sams Chief of Staff Matthew.sams@mercury broadband.com (800) 354-4915 x504
Attachment 7, page 17, note 5		Attachment 7 page 17, note 5 contains detailed information regarding Mercury's Stock Option plan. If this information were to become public, it would expose financial data and performance which would put the company at a competitive disadvantage exposing sensitive financial information.	Matthew Sams Chief of Staff Matthew.sams@mercury broadband.com (800) 354-4915 x504

Attachment 7,	Financial	Attachment 7 page 10 paragraph 2 contains detailed	Matthew Sams	
	Information	Attachment 7 page 19 paragraph 2 contains detailed financial information for revenue recognition and disaggregation of revenue for 2018 and 2019. If this information were to become public, it would expose financial data and performance which would put the company at a competitive disadvantage exposing sensitive financial information.	Chief of Staff Matthew.sams@mercury broadband.com (800) 354-4915 x504	
Attachment 7, page 20, note 8	Financial Information	Attachment 7 page 20 note 8 contains detailed financial information for rent expenses incurred by Mercury for 2018 and 2019. If this information were to become public, it would expose financial data and performance which would put the company at a competitive disadvantage exposing sensitive financial information.	Matthew Sams Chief of Staff Matthew.sams@mercury broadband.com (800) 354-4915 x504	
,	Financial Information	Attachment 7, page 21, paragraph 1 contains future lease payment details. Note 10 contains payables information for shareholders and executives. If this information were to become public, it would expose financial data and performance which would put the company at a competitive disadvantage exposing sensitive financial information.	Matthew Sams Chief of Staff Matthew.sams@mercury broadband.com (800) 354-4915 x504	
,	Financial Information	Attachment 7 page 22 note 12 contains financial information for redeemed stock shares. If this information were to become public, it would expose financial data and performance which would put the company at a competitive disadvantage exposing sensitive financial information.	Matthew Sams Chief of Staff Matthew.sams@mercury broadband.com (800) 354-4915 x504	
,	Financial Information	Attachment 7 page 27 contains the Consolidated Balance sheets for December 31, 2017 and 2018. If this information were to become public, it would expose financial data and performance which would put the company at a competitive disadvantage exposing sensitive financial information.	Matthew Sams Chief of Staff Matthew.sams@mercury broadband.com (800) 354-4915 x504	
	Financial Information	Attachment 7 page 28 contains the Liabilities and Stockholders' Equity for December 31, 2017 and 2018. If this information were to become public, it would expose financial data and performance which would put the company at a competitive disadvantage exposing sensitive financial information.	Matthew Sams Chief of Staff Matthew.sams@mercury broadband.com (800) 354-4915 x504	
,	Financial information	Attachment 7 page 29 contains the Consolidated Statements of Income for December 31, 2017 and 2018. If this information were to become public, it would expose financial data and performance which would put the company at a competitive disadvantage exposing sensitive financial information.	Matthew Sams Chief of Staff Matthew.sams@mercury broadband.com (800) 354-4915 x504	

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	Financial Information	Statement of Stockholders' Equity for December 31, 2017 and 2018. If this information were to become	Matthew Sams Chief of Staff Matthew.sams@mercury broadband.com (800) 354-4915 x504
,	Financial Information	Attachment 7 page 31 contains the Consolidated Statements of Cash Flows for December 31, 2017 and 2018. If this information were to become public, it would expose financial data and performance which would put the company at a competitive disadvantage exposing sensitive financial information.	Matthew Sams Chief of Staff Matthew.sams@mercury broadband.com (800) 354-4915 x504
,	Financial Information	Attachment 7, page 32 paragraph 4 contains information regarding Mercury's cash position at the end of 2018. Paragraph 5 contains details on Mercury's receivables and collections schedule. Paragraph 6 contains details on Mercury's assets. If this information were to become public, it would expose financial data and performance which would put the company at a competitive disadvantage exposing sensitive financial information.	Matthew Sams Chief of Staff Matthew.sams@mercury broadband.com (800) 354-4915 x504
,	Financial Information	Attachment 7 page 33 paragraph 1 contains information regarding loan proceeds from 2017. Paragraph 3 details Mercury's depreciation schedule. If this information were to become public, it would expose financial data and performance which would put the company at a competitive disadvantage exposing sensitive financial information.	Matthew Sams Chief of Staff Matthew.sams@mercury broadband.com (800) 354-4915 x504
Attachment 7, page 35, note 2	Financial Information	Attachment 7 page 35 note 2 details financial information for common control transactions. Attachment 7 page 33 paragraph 1 contains information regarding loan proceeds from 2017. Paragraph 3 details Mercury's depreciation schedule. If this information were to become public, it would expose financial data and performance which would put the company at a competitive disadvantage exposing sensitive financial information.	Matthew Sams Chief of Staff Matthew.sams@mercury broadband.com (800) 354-4915 x504
Attachment 7, page 36, notes 3 and 4	Financial Information	Attachment 7 page 36 note 3 contains detailed financial information for Mercury's property, plant, and equipment in 2017 and 2018. Note 4 contains detailed financial information for Mercury's intangible assets and goodwill for 2017 and 2018. If this information were to become public, it would expose financial data and performance which would put the company at a competitive disadvantage exposing sensitive financial information.	Matthew Sams Chief of Staff Matthew.sams@mercury broadband.com (800) 354-4915 x504
,	Financial Information	Attachment 7 page 37 contains information on intangibles, good will, and long-term debt obligations for 2017 and 2018. If this information were to become public, it would expose financial data and performance which would put the company at a competitive disadvantage exposing sensitive financial information.	Matthew Sams Chief of Staff Matthew.sams@mercury broadband.com (800) 354-4915 x504

Attachment 7,	Financial	Attachment 7, page 38 contains detailed financial	Matthew Sams
	Information	information and notes regarding Mercury's consolidated financial statements. If this information	Chief of Staff Matthew.sams@mercury broadband.com (800) 354-4915 x504
,	Financial Information	information on aggregate annual maturities of long- term debt. Note 6 contains detailed financial	Matthew Sams Chief of Staff Matthew.sams@mercury broadband.com (800) 354-4915 x504
Attachment 7, page 40, note 8	Financial Information	financial information on Mercury's stock option plan including dollar amounts and shares. If this information	Matthew Sams Chief of Staff Matthew.sams@mercury broadband.com (800) 354-4915 x504
,	Financial Information	for transactions to executives and shareholders. If this	Matthew Sams Chief of Staff Matthew.sams@mercury broadband.com (800) 354-4915 x504
	Financial Information	Attachment 7 page 42 note 12 contains financial detail related to an outstanding receivable at the end of 2018. If this information were to become public, it would expose financial data and performance which would put the company at a competitive disadvantage exposing sensitive financial information.	Matthew Sams Chief of Staff Matthew.sams@mercury broadband.com (800) 354-4915 x504
Attachment 8, table	Trade Secret	······································	Matthew Sams Chief of Staff Matthew.sams@mercury broadband.com (800) 354-4915 x504
	Proprietary Information	project. To protect the privacy of the engineer we have	Matthew Sams Chief of Staff Matthew.sams@mercury broadband.com (800) 354-4915 x504

Attachment 9, page 6, paragraph 2	Trade Secret	Attachment 9 page 6 paragraph 2 contains information on the company's planned oversubscription ratio. This information is sensitive to Mercury's engineering	Matthew Sams Chief of Staff Matthew.sams@mercury
P			broadband.com (800) 354-4915 x504
Attachment 9, page 9, paragraph 3, 4, and 5	Trade Secret	Attachment 9 page 9 paragraph 3 contains the coordinates of a fiber CO and tower deployment. Paragraphs 4 and 5 contain information on the deployment plans, types of equipment used, methods, strategies, and techniques related to the proposed network. If this information were to becomes public, it would put the company at a competitive disadvantage allowing competing businesses to anticipate strategic deployments and potentially disrupt operations.	Matthew Sams Chief of Staff Matthew.sams@mercury broadband.com (800) 354-4915 x504
page 9, figure 5, table 1		Attachment 9 page 9 paragraphs 2, 3, and figure 5 contain information on the deployment plans, types of equipment used, methods, strategies, and techniques related to the proposed network. Table 1 contains a high level BOM for the fiber deployment. If this information were to becomes public, it would put the company at a competitive disadvantage allowing competing businesses to anticipate strategic deployments and potentially disrupt operations.	Matthew Sams Chief of Staff Matthew.sams@mercury broadband.com (800) 354-4915 x504
Attachment 9, page 11, paragraphs 1 - 6	Trade Secret	Attachment 9 page 11 paragraphs 1 - 6 contain equipment specific information for the planned deployment including vendors and models of equipment. If this information were public it would allow competing businesses to copy Mercury's deployment practices, eliminating Mercury's competitive advantage through its internally developed deployment best practices.	Matthew Sams Chief of Staff Matthew.sams@mercury broadband.com (800) 354-4915 x504
Attachment 9, page 12, figure 9		Attachment 9 page 12 figure 9 contains equipment specific information for the planned deployment including vendors and models of equipment. If this information were public it would allow competing businesses to copy Mercury's deployment practices, eliminating Mercury's competitive advantage through its internally developed deployment best practices.	Matthew Sams Chief of Staff Matthew.sams@mercury broadband.com (800) 354-4915 x504
Attachment 9, page 13, paragraph 4	Trade Secret	Attachment 9 page 13 paragraph 4 contains specific information on the capabilities of Mercury's network and vendor relationships. If this information were public it would allow competing businesses to copy Mercury's deployment practices, eliminating Mercury's competitive advantage through its internally developed deployment best practices.	
Attachment 9, page 14, paragraph 2, figures 10 and 11	Trade Secret	Attachment 9 page 14 paragraph 2 and figures 10 and 11 disclose strategic site deployment locations specific to the project. If this information were public, it would put the company at a disadvantage allowing other carriers to anticipate strategic deployment plans, potentially undercutting, or disrupting operations.	Matthew Sams Chief of Staff Matthew.sams@mercury broadband.com (800) 354-4915 x504

Attachment 9, page 15, paragraphs 1, 2, 3, 4, and 5	contain equipment specific information for the planned	Matthew Sams Chief of Staff Matthew.sams@mercury broadband.com (800) 354-4915 x504
Attachment 9 page 16 paragraphs 1, 2, 3, and 4	contain equipment specific information for the planned	Matthew Sams Chief of Staff Matthew.sams@mercury broadband.com (800) 354-4915 x504
Attachment 9, page 17, paragraphs 1 and 2	equipment specific information for the planned	Matthew Sams Chief of Staff Matthew.sams@mercury broadband.com (800) 354-4915 x504
Attachment 9, page 18, paragraphs 2, 3, and table 1	equipment specific information for the planned deployment including vendors and models of	Matthew Sams Chief of Staff Matthew.sams@mercury broadband.com (800) 354-4915 x504
Attachment 9, page 19, paragraphs 4 and 5	specific information on key partnerships and the location of sensitive infrastructure used to support Mercury's operations. If this information were public, it	Matthew Sams Chief of Staff Matthew.sams@mercury broadband.com (800) 354-4915 x504
Attachment 9, pages 21, 22, and 23	information regarding Mercury's engineering assumptions and practices. If this information were public it would allow competing businesses to copy	Matthew Sams Chief of Staff Matthew.sams@mercury broadband.com (800) 354-4915 x504
Attachment 10, page 1, paragraph 2 and table 1	information about Mercury's engineering practices, table 1 contains sensitive information regarding	Matthew Sams Chief of Staff Matthew.sams@mercury broadband.com (800) 354-4915 x504

Attachment 10, page 2, paragraph 3 table 2	Trade Secret	Attachment 10 page 2 paragraph 3 contains sensitive information about Mercury's engineering practices table 2 contains sensitive information regarding Mercury's engineering assumptions and practices. If this information were public it would allow competing businesses to copy Mercury's deployment practices, eliminating Mercury's competitive advantage through its internally developed deployment best practices.	Matthew Sams Chief of Staff Matthew.sams@mercury broadband.com (800) 354-4915 x504
Attachment 10, page 3, paragraph 3	Trade Secret		Matthew Sams Chief of Staff Matthew.sams@mercury broadband.com (800) 354-4915 x504
Attachment 11, page 3, paragraphs 3 and 4	Trade Secret	Attachment 11 page 3 paragraphs 3 and 4 contain sensitive information regarding Mercury's partnerships and vendors. If this information were public it would allow competing businesses to copy Mercury's deployment practices, eliminating Mercury's competitive advantage through its internally developed deployment best practices.	Matthew Sams Chief of Staff Matthew.sams@mercury broadband.com (800) 354-4915 x504
Attachment 11, page 4, paragraphs 1, 2, 3, 4, and 5	Trade Secret	Attachment 11 page 4 paragraphs 1, 2, 3, 4, and 5 contain sensitive information regarding Mercury's partnerships and vendors. If this information were public it would allow competing businesses to copy Mercury's deployment practices, eliminating Mercury's competitive advantage through its internally developed deployment best practices.	Matthew Sams Chief of Staff Matthew.sams@mercury broadband.com (800) 354-4915 x504
Attachment 11, page 5, paragraph 1, 2, 3, 4, and 5	Trade Secret	Attachment 11 page 5 paragraphs 1, 2, 3, 4, and 5 contain sensitive information regarding Mercury's partnerships and vendors. If this information were public it would allow competing businesses to copy Mercury's deployment practices, eliminating Mercury's competitive advantage through its internally developed deployment best practices.	Matthew Sams Chief of Staff Matthew.sams@mercury broadband.com (800) 354-4915 x504
Attachment 11, page 6, paragraph 1	Trade Secret	Attachment 11 page 6 paragraph 1 contains sensitive information regarding Mercury's partnerships and vendors. If this information were public it would allow competing businesses to copy Mercury's deployment practices, eliminating Mercury's competitive advantage through its internally developed deployment best practices.	Chief of Staff Matthew.sams@mercury broadband.com
Attachment 16, page 2 and 3	Trade Secret	Attachment 16 page 2 and 3 contain sensitive customer information. If this information were public it would put Mercury at a competitive disadvantage, disclosing commercial account details and allowing competing businesses to potentially undercut the Company.	Matthew Sams Chief of Staff Matthew.sams@mercury broadband.com (800) 354-4915 x504

Attachment 18, page 1	Trade Secret	Attachment 18, page 1 provides detail on the proposed projects construction schedule. If this information were made public it would put the Company at a competitive disadvantage allowing competing businesses to anticipate our deployments and potentially disrupt operations.	Chief of Staff
Grant Application, page 4, #8, field 1	Proprietary Information	Grant application page 4 #8 field 1 contains Mercury's EIN. Mercury is a privately held Company and as such wishes to limit disclosure of this information. If this information were easily assessable to the public it would disclose sensitive corporate data.	Matthew Sams Chief of Staff Matthew.sams@mercury broadband.com (800) 354-4915 x504
Grant Application, page 11, #24	Financial Information	Grant application page 11 #24 contains sensitive financial information regarding Mercury's project and planned expansions. If this information were public, it would put the company at a competitive disadvantage providing insight into the projects financial planning.	Matthew Sams Chief of Staff Matthew.sams@mercury broadband.com (800) 354-4915 x504
Grant Application, page 14, #28	Trade Secret	Grant application page 14 #28 provides detail on the proposed projects construction schedule. If this information were made public it would put the Company at a competitive disadvantage allowing competing businesses to anticipate our deployments and potentially disrupt operations.	Matthew Sams Chief of Staff Matthew.sams@mercury broadband.com (800) 354-4915 x504
Grant Application, page 21, #44	Trade Secret	Grant application page 21 #44 contains Mercury's competitive pricing structure. The company's pricing mechanism is not published. Making this information public would expose the company's non-published pricing putting the company at a competitive disadvantage, allowing other carriers to under-cut Mercury's pricing structure in advance of network construction.	Matthew Sams Chief of Staff Matthew.sams@mercury broadband.com (800) 354-4915 x504

By signing below, the Applicant affirms that confidential treatment of material contained in its proposal is requested and has attached to this form a redacted "Public Copy" of the Applicant's proposal.

#### Mercury Connects Delton

Project Name

Signature n>

2/24/21

Date

Matthew Sams

[Printed Name]

Chief of Staff

[Title]

Mercury Wireless Indiana, LLC.

[Company]



GRETCHEN WHITMER GOVERNOR STATE OF MICHIGAN DEPARTMENT OF TECHNOLOGY, MANAGEMENT & BUDGET LANSING

BROM STIBITZ DIRECTOR

# Connecting Michigan Communities 2.0 Grant Application

Please read through the entire Grant Information and Application package before you begin to respond to the application questions. This will help ensure you understand the full scope of the application as well as the details you will need to provide to complete the application.

**Application Deadline:** All grant applications are due by 4:00 p.m. EST, on Monday, January 4, 2021.

**Submission Guidelines:** Applicants must email their applications and all attachments to: <u>DTMB-CMICGrant@michigan.gov</u>. Applications must be complete, and attachments clearly labeled with the question or statement number from the application form. Completed application, attachments, and supporting documentation must be received by the Department of Technology, Management, and Budget (DTMB), Center for Shared Solutions by 4:00 p.m. EST on Monday, January 4, 2021, to be considered for funding. Applicants will receive an email confirmation in receipt of their submission. It is the applicant's responsibility to ensure the application is received by DTMB prior to the submission deadline. Applications submitted to the wrong email address or received after the deadline will be rejected. Official application submission date and time will be determined by the time stamp accompanying the application email. Applications dated and time stamped in any other way will be rejected. If a confirmation receipt is not received within two business days, applicants must contact the CMIC Grant Program Office at (517) 335-3727.

**Questions and Contact:** If you have questions after reviewing the application and supporting documentation, please see the Frequently Asked Questions (FAQ) document available on the grant website: <a href="http://www.michigan.gov/CMICGrant">www.michigan.gov/CMICGrant</a>. The FAQ will be updated throughout the application process. Questions and comments can also be submitted via email to: <a href="http://www.michigan.gov">DTMB-CMICGrant@michigan.gov</a>.

## **Application Checklist**

This checklist is part of your application and should be returned along with your completed application and attachments.

Application Submission Checklist:

- □ Public application is complete and file name meets the designated naming structure.
- □ Non-Public application is complete and file name meets the designated naming structure.
- □ Confidential Treatment Form is complete.
- Attachments have been gathered and file names meet the designated naming structure.
  - □ Attachment 1: Map of proposed service area in .pdf format (including both last mile coverage and middle mile routes)
  - □ Attachment 2: Map of proposed service area in a GIS-compatible file format (including both last mile coverage and middle mile routes)
  - □ Attachment 3: Spreadsheet of street addresses that are part of the proposed service area in .xlsx format
  - □ Attachment 4: Match commitment letters or evidence
  - □ Attachment 5: Applicant organizational chart
  - □ Attachment 6: Resumes of key officers, management personnel, and proposed project management team
  - □ Attachment 7: Three years of audited financial statements.
  - Attachment 8: Affidavit of commitment to offer the proposed service and cost in the proposed service area for a minimum of three years after project completion
  - □ Attachment 9: Budgetary engineering designs, diagrams, and maps that show the proposed project
  - Attachment 10: Evidence of network scalability
  - □ Attachment 11: Additional evidence of project readiness
  - Attachment 12: Demonstration of customer interest in the proposed project
  - Attachment 13: Demonstration of interest/impact/support from businesses
  - Attachment 14: Demonstration of interest/impact/support from the agricultural community
  - □ Attachment 15: Demonstration of interest/impact/support from CAIs
  - Attachment 16: Evidence of application for a SPIN
  - Attachment 17: Demonstration of interest/impact/support from communities

File naming structure: Applicants are to use the name of their organization followed by public application, non-public application, or the attachment number and file type (e.g. ABCTelecom\_Attachment\_1.pdf).

## Applicant and Project Information, Contact Information, and Summary

- 1. Project Name:
- 2. Applicant Name:

DBA (if applicable):

Mailing Address:

3. Primary Grant Contact:

Primary Contact Phone Number:

Primary Contact Email Address:

Primary Contact Organization (if not part of the applicant's organization):

4. Application Author Name:

Application Author Email:

5. Eligibility Status: Select the means by which the applicant is eligible to apply for the grant:

- □ Licensed under the Michigan Telecommunications Act (1991 PA 179, MCL 484.2101 to 484.2603)
- □ Franchise holder under the Uniform Video Services Local Franchise Act (2006 PA 480, MCL 484.3301 to 484.3315)
- □ Broadband service provider currently providing service in Michigan

 $\Box$  Yes  $\Box$  No  $\Box$  Unsure

<sup>6.</sup> Are you registered with the <u>Michigan Public Service Commission's Intrastate</u> <u>Telecommunications Service Providers Registry (ITSP)</u>?

7. Have you provided broadband coverage data to Connect Michigan in the last five years?

□Yes ☑ No □ Unsure

8. Applicant Identification Numbers: Please provide the following identification numbers for the applicant (if available):

Federal Employer Identification Number (EIN):

Michigan Tax Identification Number:

2164147

Michigan Vendor Identification Number:

VS0111522

Federal Communications Commission Registration Number (FRN):

0025151754

Service Provider Identification Number (SPIN):

143051573

#### 9. Project Summary (250 words max.):

Delton, Michigan and its surrounding rural communities lack adequate access to broadband services to support the increasing needs of distance learning, working from home, and access to telehealth services. Mercury Connects Delton is a broadband infrastructure improvement project to construct a hybrid fiber/wireless network to connect Delton, in addition to undeserved communities around Pleasant Lake, Crooked Lake, and Hickory Corners. Mercury Wireless Indiana, LLC (the applicant) is proposing the installation of 14.4 miles of fiber optic broadband cabling to support fiber-to-the-premises (FTTP) connections to 568 residential, business, and community anchor institution locations in and surrounding Delton. The proposed FTTP network would be capable of providing download speeds of up to 1,000 Mbps with unlimited data usage to all connected locations. Additionally, Mercury proposes the construction of 7 wireless access sites to extend fiber-optic network capacity to an additional 712 residential, business, and community anchor institution locations using carrier class LTE-A wireless technologies. The proposed wireless network will be capable of providing connection speeds up to 100Mbps with unlimited data usage. Mercury Connects Delton will provide broadband services to a total of 1.280 locations including 1.201 homes, 70 businesses, and 9 community anchor institutions, allowing residents and businesses of these communities access to critical telecommunications services necessary to boost education, public health and safety, and economic prosperity. In the spirit of conquering the digital divide in rural Michigan, Mercury Wireless respectfully submits this application for funding consideration to the Connecting Michigan Communities Grant Program.

#### **Locations Passed and Proposed Service:**

Attachment 1: Map of proposed service area in .pdf format (including both last mile coverage and middle mile routes) Name of Attachment 1:

Attachment 2: Map of proposed service area in GIS-compatible file format (including both last mile coverage and middle mile routes) Name of Attachment 2:

10. Please provide a brief description of the proposed service area (250 words max.):

Attachment 3: Spreadsheet of street addresses that are part of the proposed service area in .xlsx format. Name of Attachment 3:

#### 11. Use the following format to complete Attachment 3

Number	Street	Address	City	State	Zip Code
123	Main St	123 Main St	Anytown	MI	48823

- 12. Does the project include a middle mile component?□Yes □No
- 13. Locations Passed: Please indicate the total number of locations by type that will be able to receive improved broadband services as a result of the proposed project:

Households	
Businesses	
Community Anchor Institutions	
Total Locations Passed	

14. Are any vacant lots included in the total number of locations passed listed above?

□Yes □No

If yes, these vacant lots should be anticipated for growth in the next five years according to a local, county, or regional master plan or economic development plan. Please list the name of the relevant plan and the jurisdiction implementing the plan.

Plan Name:

Jurisdiction:

15. Please list the jurisdictions impacted by the proposed service area:

City(ies)/Village(s):

Township(s):

County(ies):

State House District(s):

State Senate District(s):

16. Please provide a brief description of the broadband service to be provided including, but not limited to, the technology to be used, will bandwidth be dedicated or shared, etc. (250 words max.):

### **Project Costs and Budget**

17. Total Project Cost: Please complete the table below

Total Project Cost	
Total Grant Request	
Total Match Amount	
Total Match Percentage	

Attachment 4: Match commitment letters or evidence Name of Attachment 4:

18. Total matching funds: Please complete the table below summarizing the source, amount, and type of matching funds contributed to the project. Applicants should also indicate if the match is secured or not. Attach additional sheets if necessary.

Source	Amount	Туре	Secured?
		□Cash □In-Kind	⊡Yes ⊡No
		□Cash □In-Kind	□Yes □No
		□Cash □In-Kind	□Yes □No
		□Cash □In-Kind	□Yes □No
		□Cash □In-Kind	□Yes □No
		□Cash □In-Kind	□Yes □No

19. If matching funds or in-kind contributions listed above are not yet secured, please describe the process remaining to secure the funds and the anticipated timeline to do so, (250 words max.):

20. Project Budget: Please use the following table to provide a budget for the proposed project.

Category	Match Amount	Grant Amount	Total
Buildings and Labor			
Last Mile Construction Labor			
Middle Mile Construction Labor			
Construction Material			
Customer Premise Equipment			
Customer Premise Installation			
Electronics			
Permits			
Professional Services and Engineering			
Other:			
		Total	

21. Please briefly describe why this project needs funding from the CMIC Grant program and why the project could not proceed without this funding (250 words max.):

#### **Experience and Financial Wherewithal**

*Attachment 5: Applicant organizational chart* Name of Attachment 5:

Attachment 6: Resumes of key officers, management personnel, and proposed project management team Name of Attachment 6:

22. Please provide a brief history of your organization including experience relevant to the proposed project, (250 words max.):

Attachment 7: Three years of audited financial statements Name of Attachment 7:

23. Please provide a brief statement to accompany your attached audited financial statements and documentation (250 words max.):

#### Long-Term Viability

24. Use the template below to complete a five-year stand-alone project financial plan/forecast.

Five-Ye	ar Stand-Ale	one Project F	inancial Pla	n	
Mercury Connects	Year 1	Year 2	Year 3	Year 4	Year 5
					Five-Year Stand-Alone Project Financial Plan           Mercury Connects         Year 1         Year 2         Year 3         Year 4

# 25. Please provide a brief narrative to accompany your five-year stand-alone project financial plan/forecast (400 words max.):

The five-year stand-alone project forecast is broken down into 3 sections, the Income Statement, Statement of Cash Flows, and Balance Sheet internally, then converted to a format to support the CMIC application. Revenue for the project begins in year 2 with the anticipated customer capture from completed sections of the network. Initial customer capture is driven primarily from fixed wireless deployments, which will be deployed concurrently with the fiber-optic network. Over years 3 and 4 the customer capture shifts from fixed wireless to fiber-optic as the network nears completion. Expenses include Cost of Sales, Selling General and Administrative costs, and Depreciation and Amortization across the life of the project and five-year forecast. Grant funds are anticipated across years 1, 2, and 3 of the project. In year 1 grant funds are driven off of an initial 25% disbursement of grant funds in the amount of \$589,340.00 and a regular reimbursement of \$471,472.00, and year 3 is a regular reimbursement of \$471,472.00 and a 15% grant reimbursement upon project closeout of \$353,604.00. Cash flows are less operating activities, investing activities, and factor in grant revenue.

Attachment 8: Affidavit of commitment to offer the proposed service and cost in the proposed service area for a minimum of three years after project completion. Name of Attachment 8:

#### **Readiness and Scalability**

Attachment 9: Budgetary engineering designs, diagrams, and maps that show the proposed project. Design documents must clearly demonstrate the applicant's complete understanding of the project and ability to provide the proposed solution. This information must be certified by a Professional Engineer registered in Michigan. Name of Attachment 9:

26. Please provide a brief statement to accompany your attached engineering designs, diagrams, and maps indicating your readiness to build, manage, and operate the proposed network, (400 words max.):

27. Please provide a description and evidence that the proposed infrastructure is scalable to meet the anticipated future connectivity demands of the proposed service area. Please indicate the end- user connection speed to which the proposed network is designed to scale. This information must be certified by the equipment manufacturer or a professional engineer, (250 words max.):

28. Please use the table below to complete a project schedule outlining individual tasks and their timing by quarter and year. Attach additional pages if necessary. All projects must be complete by September 30, 2025.

Task	2021		20	22			20	23			20	24			2025	
IdSh	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3
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See Attachment_18																

29. Please indicate the anticipated date upon which service to the last location in the proposed project area will be turned on:

September 30, 2025

30. Please list any factors that would change or delay the proposed schedule:

Permitting approvals, structural analysis, lease agreements, land use agreements, and environmental studies (if applicable) are pending contingent on notification of a successful grant application. Additionally, our Field Operations team will work with local communities to complete construction.

31. Have all the required local/city/county/state approvals necessary for this project to proceed been obtained?

□Yes ☑No

If not, what remains to be done and what is required for completing the process of obtaining approvals? Include this information in the project schedule.

Mercury will need to obtain right-of-way agreements, if applicable driveway crossing or road crossing permits, building permits, and electrical permits for its fiber network. Mercury will also need utility locates. Electrical and building permits will be obtained in relevant areas for civil work at tower sites.

32. Have state environmental review requirements been met, if applicable?

□Yes ☑No

If not, what remains to be done and what is required for completing the process of obtaining approvals? Also Include this information in the project schedule.

Environmental review is not needed. Mercury intends to collocate on existing tower sites for wireless, and will use rights-of-way and existing roadways for fiber optic cable burial. In the event a site needs to be constructed or rights-of-way are unavailable, Mercury will perform the needed EIS.

33. Does this project affect/is the project located in or near local, state, or federal historic or potentially historic, architectural, or archeological resources? □Yes □No

If not, what remains to be done and what is required for completing the process of obtaining approvals? Include this information in the project schedule.

34. Please briefly describe how the proposed project will leverage existing broadband networks, where practical, or be built in conjunction with other broadband infrastructure project(s), (250 words max.):

Attachment 11: Additional evidence of project readiness

Name of Attachment 11:

35. Please provide any additional evidence of your project's readiness. This evidence can include, but is not limited to, letters of intent, memorandums of understanding, land/tower lease agreements, right-of-way agreements, permits, etc. Provide a short narrative to accompany this additional evidence, (250 words max.):

#### **Community and Economic Development**

Attachment 12: Demonstration of customer interest in the proposed project Name of Attachment 12:

36. Please provide a brief statement to accompany the demonstration of customer interest you have attached to this application. This description should include the method used for gauging customer interest and the results, (250 words max.):

Attachment 13: Demonstration of interest/impact/support from businesses Name of Attachment 13:

37. Please provide a brief description of the businesses needing improved broadband service in the proposed project area and the level of improvement needed. Attach statements or evidence regarding the benefits from the proposed connectivity solution and how it will impact those businesses (250 words max.): Attachment 14: Demonstration of interest/impact/support from the agricultural community Name of Attachment 14:

38. If the proposed service area has a significant agricultural presence, please briefly describe how the proposed service will impact farmers and the agricultural community. Attach statements or evidence regarding the benefits from the proposed connectivity solution and how it will impact the agricultural community (250 words max.):

Attachment 15: Demonstration of interest/impact/support from CAIs Name of Attachment 15:

39. Please provide a brief description of the community anchor institutions (CAIs) needing improved broadband service in the proposed project area and the level of improvement needed. Attach statements or evidence regarding the benefits from the proposed connectivity solution and how it will impact those CAIs (250 words max).

40. In the table below, please list the specific community anchor institutions (CAIs) to be served by the proposed project. Attach additional sheets if necessary.

CAI Name	Address	Type (healthcare, library, school, etc.)

*Attachment 16: Evidence of application for a SPIN (if applicable)* Name of Attachment 16: 41. If the proposed project includes connections to schools or libraries, please provide your SPIN or evidence of application for a SPIN from the FCC Universal Service Administrative Company (USAC) and demonstration of your knowledge of E-rate and working with the FCC/USAC, (250 words max.):

Attachment 17: Demonstration of interest/impact/support from communities Name of Attachment 17:

42. Please provide a brief description of the communities needing improved broadband service in the proposed project area and the level of improvement needed. Attach statements or evidence regarding the benefits from the proposed connectivity solution and how it will impact those communities (250 words max). 43. Is broadband included in a local, county, or regional economic development plan, master plan, or similar up-to-date planning document, or does the community in which the proposed service is to be deployed have a specific broadband/technology plan in place?

□Yes ZNo

If yes, please list the name of the relevant plan and the jurisdiction implementing the plan.

Plan Name:

n/a	
Jurisdiction:	
n/a	

#### Affordability and Service Limitations

44. Using the table below, please indicate the download and upload speeds of the services to be offered in the proposed service area offered over the initial five years of the project (attach additional sheets if necessary). The non-discounted or rack rate monthly pricing of unbundled internet-only service should be included for each service offered, as well as the monthly data allowance for customers (if applicable):

Download Speed (Mbps)	Upload Speed (Mbps)	Monthly Cost	Monthly Data Allowance (GB)
10	2		Unlimited
30	6		Unlimited
100	20		Unlimited
1000	500		Unlimited

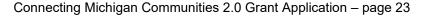
- 45. Do you participate in the federal Lifeline program? □Yes ☑No
- 46. Do you plan to offer a lower-cost monthly subscription plan for low-income households in the proposed service area? □Yes ☑No

If yes, please briefly describe the program including the type of service to be offered, the monthly cost for qualifying household, and how you plan to determine household eligibility for such a program, (400 words max.):

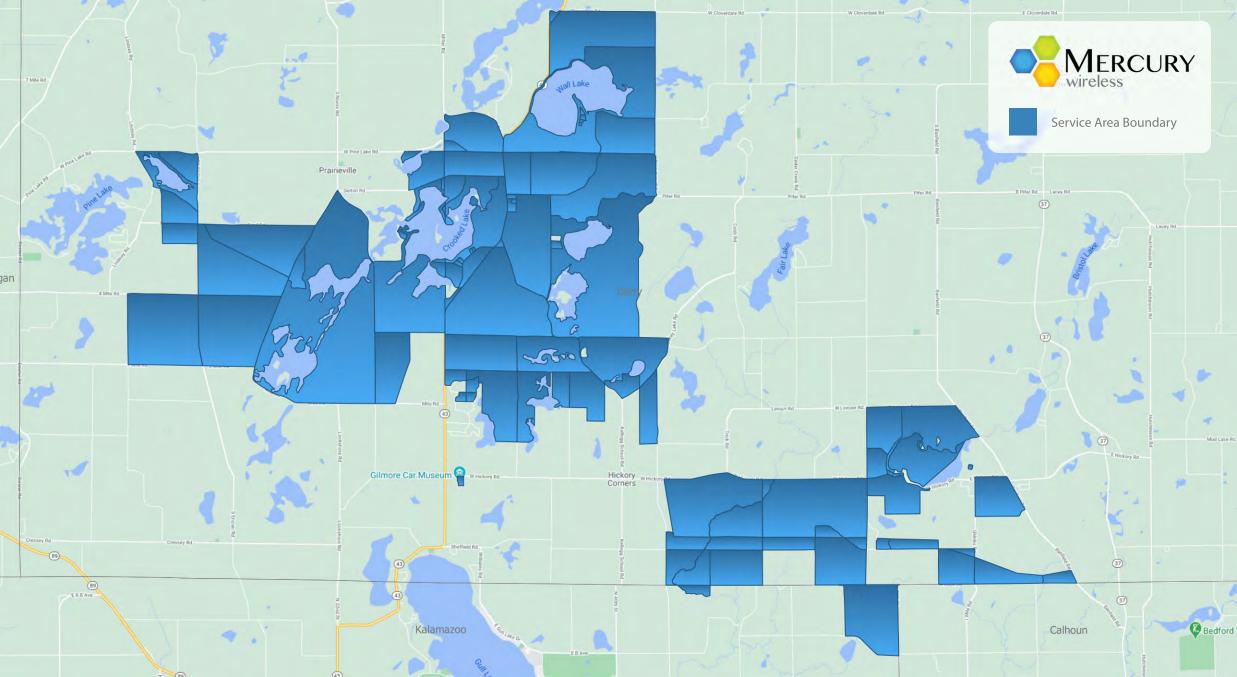
47. Does any of the proposed service area include (wholly or partially) an eligible distressed area (a list of eligible distressed areas can be found here: https://www.michigan.gov/mshda/0,4641,7- 141-48987\_75951-181277--,00.html)?
□ Yes □ No If yes, please list the distressed community(ies) impacted by the proposed service area:

## **Adoption Strategy**

48. Please describe any proposed digital literacy training events, materials, and/or resources that will be provided to residents or businesses impacted by the proposed connectivity. Include the number and type of events, including commitments from any partners included in the digital literacy training and the anticipated outcomes from related activities. The description must provide clear detail and contain measurable metrics (400 words max.):



49. Please describe the materials and method(s) to be used for providing residents and businesses with information promoting the use of an internet connection for improving quality of life, access to resources, economic opportunity, etc., in the proposed service area. Partnerships with local CAIs that build awareness for enriching online opportunities for residents and businesses are highly encouraged. Examples of these opportunities include, but are not limited to, telehealth applications, access to government services, e-learning, job and career readiness programs, public safety information, cybersecurity training, etc. This description must provide clear detail and contain measurable metrics (400 words max.):



Number	Street	Address	City	State	Zip Code
11100	Kingsbury Rd	11100 Kingsbury Rd	Delton	MI	49046
11100	Kingsbury Rd	11100 Kingsbury Rd Apt A	Delton	MI	49046
11100	Kingsbury Rd	11100 Kingsbury Rd Apt B	Delton	MI	49046
435	Scribner St	435 Scribner St	Delton	MI	49046
435	Scribner St	435 Scribner St Apt 1	Delton	MI	49046
435	Scribner St	435 Scribner St Apt 10	Delton	MI	49046
435	Scribner St	435 Scribner St Apt 11	Delton	MI	49046
435	Scribner St	435 Scribner St Apt 12	Delton	MI	49046
435	Scribner St	435 Scribner St Apt 13	Delton	MI	49046
435	Scribner St	435 Scribner St Apt 14	Delton	MI	49046
435	Scribner St	435 Scribner St Apt 15	Delton	MI	49046
435	Scribner St	435 Scribner St Apt 16	Delton	MI	49046
435	Scribner St	435 Scribner St Apt 17	Delton	MI	49046
435	Scribner St	435 Scribner St Apt 18	Delton	MI	49046
435	Scribner St	435 Scribner St Apt 19	Delton	MI	49046
435	Scribner St	435 Scribner St Apt 2	Delton	MI	49046
435	Scribner St	435 Scribner St Apt 20	Delton	MI	49046
435	Scribner St	435 Scribner St Apt 21	Delton	MI	49046
435	Scribner St	435 Scribner St Apt 22	Delton	MI	49046
435	Scribner St	435 Scribner St Apt 3	Delton	MI	49046
435	Scribner St	435 Scribner St Apt 4	Delton	MI	49046
435	Scribner St	435 Scribner St Apt 5	Delton	MI	49046
435	Scribner St	435 Scribner St Apt 6	Delton	MI	49046
435	Scribner St	435 Scribner St Apt 7	Delton	MI	49046
435	Scribner St	435 Scribner St Apt 8	Delton	MI	49046
435	Scribner St	435 Scribner St Apt 9	Delton	MI	49046
435	Scribner St	435 Scribner St Ofc	Delton	MI	49046
445	E Orchard St	445 E Orchard St	Delton	MI	49046
445	E Orchard St	445 E Orchard St Apt A	Delton	MI	49046
445	E Orchard St	445 E Orchard St Apt B	Delton	MI	49046
441	E Orchard St	441 E Orchard St	Delton	MI	49046
441	E Orchard St	441 E Orchard St Apt A	Delton	MI	49046
	E Orchard St	441 E Orchard St Apt B	Delton	MI	49046
	S Grove St	752 S Grove St	Delton	MI	49046
	S Grove St	752 S Grove St Apt 1	Delton	MI	49046
	S Grove St	339 S Grove St	Delton	MI	49046
	S Grove St	339 S Grove St Ste 100	Delton	MI	49046
	S Grove St	339 S Grove St Ste 114	Delton	MI	49046
	S Grove St	339 S Grove St Ste 200	Delton	MI	49046
	W Orchard St	123 W Orchard St	Delton	MI	49046
	W Orchard St	123 W Orchard St # 128	Delton	MI	49046
	E Shore Dr	11216 E Shore Dr	Delton	MI	49046
	E Shore Dr	11216 E Shore Dr Lowr	Delton	MI	49046
	E Shore Dr	11216 E Shore Dr Uppr	Delton	MI	49046
	Manning Lake Rd	14700 Manning Lake Rd	Battle Cree		49017
14700	Manning Lake Rd	14700 Manning Lake Rd Apt A	Battle Cree	MI	49017

14700	Manning Lake Rd	14700 Manning Lake Rd Apt B	Battle Cree	MI	49017
10896	Stoney Point Dr	10896 Stoney Point Dr	Delton	MI	49046
	Stoney Point Dr	10896 Stoney Point Dr Lot 1	Delton	МІ	49046
	, Stoney Point Dr	, 10896 Stoney Point Dr Lot 10	Delton	МІ	49046
	Stoney Point Dr	10896 Stoney Point Dr Lot 11	Delton	MI	49046
	Stoney Point Dr	10896 Stoney Point Dr Lot 12	Delton	MI	49046
		•	Delton	MI	49046
	Stoney Point Dr	10896 Stoney Point Dr Lot 14			
	Stoney Point Dr	10896 Stoney Point Dr Lot 16	Delton	MI	49046
	Stoney Point Dr	10896 Stoney Point Dr Lot 17	Delton	MI	49046
	Stoney Point Dr	10896 Stoney Point Dr Lot 18	Delton	MI	49046
	Stoney Point Dr	10896 Stoney Point Dr Lot 20	Delton	MI	49046
	Stoney Point Dr	10896 Stoney Point Dr Lot 21	Delton	MI	49046
10896	Stoney Point Dr	10896 Stoney Point Dr Lot 22	Delton	MI	49046
10896	Stoney Point Dr	10896 Stoney Point Dr Lot 24	Delton	MI	49046
10896	Stoney Point Dr	10896 Stoney Point Dr Lot 25	Delton	MI	49046
10896	Stoney Point Dr	10896 Stoney Point Dr Lot 26	Delton	MI	49046
10896	Stoney Point Dr	10896 Stoney Point Dr Lot 27	Delton	MI	49046
10896	Stoney Point Dr	10896 Stoney Point Dr Lot 3	Delton	MI	49046
10896	Stoney Point Dr	10896 Stoney Point Dr Lot 4	Delton	MI	49046
10896	Stoney Point Dr	10896 Stoney Point Dr Lot 6	Delton	MI	49046
10896	Stoney Point Dr	10896 Stoney Point Dr Lot 8	Delton	MI	49046
6775	Delton Rd	6775 Delton Rd	Delton	MI	49046
6775	Delton Rd	6775 Delton Rd Lowr	Delton	МІ	49046
	Delton Rd	6775 Delton Rd Uppr		МІ	49046
	W Shore Dr	3081 W Shore Dr	Battle Cree		49017
	W Shore Dr	3081 W Shore Dr Apt 1	Battle Cree		49017
	W Shore Dr	3081 W Shore Dr Apt 2	Battle Cree		49017
	Kingsbury Rd	11450 Kingsbury Rd	Delton	MI	49046
	Kingsbury Rd	11260 Kingsbury Rd		MI	49046
	Kingsbury Rd	10978 Kingsbury Rd	Delton	MI	49046
	0 1				
	Pennock Ln	11213 Pennock Ln	Delton	MI	49046
	N Shore Dr	5061 N Shore Dr	Delton	MI	49046
	N Shore Dr	5053 N Shore Dr	Delton	MI	49046
	N Bay Rd	5027 N Bay Rd	Delton	MI	49046
	N Bay Rd	4991 N Bay Rd	Delton	MI	49046
	N Bay Rd	5001 N Bay Rd	Delton	MI	49046
	N Bay Rd	4995 N Bay Rd	Delton	MI	49046
	N Shore Dr	5187 N Shore Dr	Delton	MI	49046
11187	Pennock Ln	11187 Pennock Ln	Delton	MI	49046
	Pennock Ln	11201 Pennock Ln	Delton	MI	49046
11003	Pennock Ln	11003 Pennock Ln	Delton	MI	49046
5231	N Shore Dr	5231 N Shore Dr	Delton	MI	49046
11005	Pennock Ln	11005 Pennock Ln	Delton	MI	49046
5111	N Shore Dr	5111 N Shore Dr	Delton	MI	49046
5093	N Shore Dr	5093 N Shore Dr	Delton	MI	49046
5081	N Shore Dr	5081 N Shore Dr	Delton	MI	49046
	N Shore Dr	5073 N Shore Dr	Delton	MI	49046
-					

5071	N Shore Dr	5071 N Shore Dr	Delton	MI	49046
11059	Pennock Ln	11059 Pennock Ln	Delton	MI	49046
11183	Pennock Ln	11183 Pennock Ln	Delton	MI	49046
11175	Pennock Ln	11175 Pennock Ln	Delton	MI	49046
11157	Pennock Ln	11157 Pennock Ln	Delton	MI	49046
11150	Pennock Ln	11150 Pennock Ln	Delton	MI	49046
11137	Pennock Ln	11137 Pennock Ln	Delton	MI	49046
5157	N Shore Dr	5157 N Shore Dr	Delton	MI	49046
5165	N Shore Dr	5165 N Shore Dr	Delton	MI	49046
5121	N Shore Dr	5121 N Shore Dr	Delton	MI	49046
4845	N Bay Rd	4845 N Bay Rd	Delton	MI	49046
	N Bay Rd	4855 N Bay Rd	Delton	MI	49046
	N Bay Rd	4847 N Bay Rd	Delton	MI	49046
5173	N Shore Dr	5173 N Shore Dr	Delton	MI	49046
5207	N Shore Dr	5207 N Shore Dr	Delton	MI	49046
11041	Pennock Ln	11041 Pennock Ln	Delton	MI	49046
11015	Pennock Ln	11015 Pennock Ln	Delton	MI	49046
11023	Pennock Ln	11023 Pennock Ln	Delton	MI	49046
11007	Pennock Ln	11007 Pennock Ln	Delton	MI	49046
11101	Pennock Ln	11101 Pennock Ln	Delton	MI	49046
11053	Pennock Ln	11053 Pennock Ln	Delton	MI	49046
4891	N Bay Rd	4891 N Bay Rd	Delton	MI	49046
	N Bay Rd	4869 N Bay Rd	Delton	MI	49046
4901	N Bay Rd	4901 N Bay Rd	Delton	MI	49046
5060	N Shore Dr	5060 N Shore Dr	Delton	MI	49046
4959	N Bay Rd	4959 N Bay Rd	Delton	MI	49046
11033	Pennock Ln	11033 Pennock Ln	Delton	MI	49046
11029	Pennock Ln	11029 Pennock Ln	Delton	MI	49046
4989	N Bay Rd	4989 N Bay Rd	Delton	MI	49046
4985	N Bay Rd	4985 N Bay Rd	Delton	MI	49046
11750	Kingsbury Rd	11750 Kingsbury Rd	Delton	MI	49046
	N Bay Rd	4990 N Bay Rd	Delton	MI	49046
10819	N Shore Dr	10819 N Shore Dr	Delton	MI	49046
10805	N Shore Dr	10805 N Shore Dr	Delton	MI	49046
10979	Pleasant Lake Rd	10979 Pleasant Lake Rd	Delton	MI	49046
10752	N Shore Dr	10752 N Shore Dr	Delton	MI	49046
10759	N Shore Dr	10759 N Shore Dr	Delton	MI	49046
10797	N Shore Dr	10797 N Shore Dr	Delton	MI	49046
11042	Pleasant Lake Rd	11042 Pleasant Lake Rd	Delton	MI	49046
10998	Pleasant Lake Rd	10998 Pleasant Lake Rd	Delton	MI	49046
8928	Reese Rd	8928 Reese Rd	Delton	MI	49046
10799	Pleasant Lake Rd	10799 Pleasant Lake Rd	Delton	MI	49046
11380	Kingsbury Rd	11380 Kingsbury Rd	Delton	MI	49046
10888	Pleasant Lake Rd	10888 Pleasant Lake Rd	Delton	MI	49046
10775	N Shore Dr	10775 N Shore Dr	Delton	MI	49046
10832	Pleasant Lake Rd	10832 Pleasant Lake Rd	Delton	MI	49046
10751	N Shore Dr	10751 N Shore Dr	Delton	MI	49046

5369	E Orchard St	5369 E Orchard St	Delton	MI	49046
10798	Pleasant Lake Rd	10798 Pleasant Lake Rd	Delton	MI	49046
10665	Pleasant Lake Rd	10665 Pleasant Lake Rd	Delton	MI	49046
	Pleasant Lake Rd	10715 Pleasant Lake Rd	Delton	MI	49046
	Summer Dr	11403 Summer Dr	Delton	MI	49046
	Summer Dr	11313 Summer Dr	Delton	MI	49046
	Summer Dr	11313 Summer Dr	Delton	MI	
					49046
	Summer Dr	11335 Summer Dr	Delton	MI	49046
	Summer Dr	11345 Summer Dr	Delton	MI	49046
	Summer Dr	11353 Summer Dr	Delton	MI	49046
	Summer Dr	11370 Summer Dr	Delton	MI	49046
	Summer Dr	11377 Summer Dr	Delton	MI	49046
11391	Summer Dr	11391 Summer Dr	Delton	MI	49046
11395	Summer Dr	11395 Summer Dr	Delton	MI	49046
11401	Summer Dr	11401 Summer Dr	Delton	MI	49046
11411	Summer Dr	11411 Summer Dr	Delton	MI	49046
11493	Summer Dr	11493 Summer Dr	Delton	MI	49046
11385	Summer Dr	11385 Summer Dr	Delton	MI	49046
5305	E Orchard St	5305 E Orchard St	Delton	MI	49046
10515	Pleasant Lake Rd	10515 Pleasant Lake Rd	Delton	MI	49046
10706	Pleasant Lake Rd	10706 Pleasant Lake Rd	Delton	MI	49046
10529	Kingsbury Rd	10529 Kingsbury Rd	Delton	MI	49046
	Pleasant Lake Rd	10708 Pleasant Lake Rd	Delton	MI	49046
	43832 Pleasant Lake Rd	10708 1/2 Pleasant Lake Rd	Delton	MI	49046
	E Orchard St	5335 E Orchard St	Delton	MI	49046
	Pleasant Lake Rd	10638 Pleasant Lake Rd	Delton	MI	49046
	E Orchard St	5368 E Orchard St	Delton	MI	49046
	Summer Dr	11361 Summer Dr	Delton	MI	49046
	Kingsbury Rd	10440 Kingsbury Rd	Delton	MI	49046
	Pleasant Lake Rd	10550 Pleasant Lake Rd	Delton	MI	49046
	Pleasant Lake Rd	10542 Pleasant Lake Rd	Delton	MI	49046
	Kingsbury Rd	10438 Kingsbury Rd	Delton	MI	49046
	E Orchard St	5685 E Orchard St	Delton	MI	49046
	E Orchard St	5641 E Orchard St	Delton	MI	49046
	E Orchard St	5687 E Orchard St	Delton	MI	49046
	E Orchard St	5500 E Orchard St	Delton	MI	49046
	E Orchard St	402 E Orchard St	Delton	MI	49046
410	E Orchard St	410 E Orchard St	Delton	MI	49046
422	E Orchard St	422 E Orchard St	Delton	MI	49046
5538	E Orchard St	5538 E Orchard St	Delton	MI	49046
5638	E Orchard St	5638 E Orchard St	Delton	MI	49046
5684	E Orchard St	5684 E Orchard St	Delton	MI	49046
423	Scribner St	423 Scribner St	Delton	MI	49046
346	E Orchard St	346 E Orchard St	Delton	MI	49046
326	E Orchard St	326 E Orchard St	Delton	MI	49046
	Floria Rd	11254 Floria Rd	Delton	MI	49046
	Floria Rd	11258 Floria Rd	Delton	MI	49046
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11252 Floria Rd	11252 Floria Rd	Delton	MI	49046
6179 Sprague Rd	6179 Sprague Rd	Delton	MI	49046
11000 Sprague Rd	11000 Sprague Rd	Delton	MI	49046
155 Bush St	155 Bush St	Delton	MI	49046
145 Bush St	145 Bush St	Delton	MI	49046
643 S Grove St	643 S Grove St	Delton	MI	49046
146 Bush St	146 Bush St	Delton	MI	49046
503 S Grove St	503 S Grove St	Delton	MI	49046
338 E Orchard St	338 E Orchard St	Delton	MI	49046
332 E Orchard St	332 E Orchard St	Delton	MI	49046
320 E Orchard St	320 E Orchard St	Delton	MI	49046
314 E Orchard St	314 E Orchard St	Delton	MI	49046
308 E Orchard St	308 E Orchard St	Delton	MI	49046
11137 Floria Rd	11137 Floria Rd	Delton	MI	49046
11065 S M 43 Hwy	11065 S M 43 Hwy	Delton	MI	49046
11005 S M 43 Hwy 11045 S M 43 Hwy	11045 S M 43 Hwy	Delton	MI	49046
325 Scribner St	325 Scribner St	Delton	MI	49046
417 Scribner St	417 Scribner St	Delton	MI	49046
250 E Orchard St	250 E Orchard St	Delton	MI	49046
		Delton		
11191 S M 43 Hwy	11191 S M 43 Hwy		MI	49046
11137 S M 43 Hwy	11137 S M 43 Hwy	Delton	MI	49046
11138 S M 43 Hwy	11138 S M 43 Hwy	Delton	MI	49046
11235 S M 43 Hwy	11235 S M 43 Hwy	Delton	MI	49046
134 Mill St	134 Mill St	Delton	MI	49046
135 Mill St	135 Mill St	Delton	MI	49046
324 Scribner St	324 Scribner St	Delton	MI	49046
139 Mill St	139 Mill St	Delton	MI	49046
140 Mill St	140 Mill St	Delton	MI	49046
317 Scribner St	317 Scribner St	Delton	MI	49046
307 Scribner St	307 Scribner St	Delton	MI	49046
301 Scribner St	301 Scribner St	Delton	MI	49046
11147 S M 43 Hwy	11147 S M 43 Hwy	Delton	MI	49046
221 Scribner St	221 Scribner St	Delton	MI	49046
11301 S M 43 Hwy	11301 S M 43 Hwy	Delton	MI	49046
751 S Grove St	751 S Grove St	Delton	MI	49046
729 S Grove St	729 S Grove St	Delton	MI	49046
304 E Orchard St	304 E Orchard St	Delton	MI	49046
609 S Grove St	609 S Grove St	Delton	MI	49046
637 S Grove St	637 S Grove St	Delton	MI	49046
615 S Grove St	615 S Grove St	Delton	MI	49046
39 Bush St	39 Bush St	Delton	MI	49046
127 Bush St	127 Bush St	Delton	MI	49046
119 Bush St	119 Bush St	Delton	MI	49046
11196 S M 43 Hwy	11196 S M 43 Hwy	Delton	MI	49046
11176 S M 43 Hwy	11176 S M 43 Hwy	Delton	MI	49046
11315 S M 43 Hwy	11315 S M 43 Hwy	Delton	MI	49046
11044 S M 43 Hwy	11044 S M 43 Hwy	Delton	MI	49046

736 S Grove St	736 S Grove St	Delton	MI	49046
148 Low St	148 Low St	Delton	MI	49046
310 Scribner St	310 Scribner St	Delton	MI	49046
203 Scribner St	203 Scribner St	Delton	MI	49046
123 Scribner St	123 Scribner St	Delton	MI	49046
117 Scribner St	117 Scribner St	Delton	MI	49046
109 Scribner St	109 Scribner St	Delton	MI	49046
717 S Grove St	717 S Grove St			
		Delton	MI	49046
706 S Grove St	706 S Grove St	Delton	MI	49046
11527 S M 43 Hwy	11527 S M 43 Hwy	Delton	MI	49046
122 Mill St	122 Mill St	Delton	MI	49046
128 Mill St	128 Mill St	Delton	MI	49046
317 Main St	317 Main St	Delton	MI	49046
310 Main St	310 Main St	Delton	MI	49046
116 Mill St	116 Mill St	Delton	MI	49046
603 S Grove St	603 S Grove St	Delton	MI	49046
535 S Grove St	535 S Grove St	Delton	MI	49046
527 S Grove St	527 S Grove St	Delton	MI	49046
238 E Orchard St	238 E Orchard St	Delton	MI	49046
246 E Orchard St	246 E Orchard St	Delton	MI	49046
11250 Sprague Rd	11250 Sprague Rd	Delton	MI	49046
105 Scribner St	105 Scribner St	Delton	MI	49046
11188 S M 43 Hwy	11188 S M 43 Hwy	Delton	MI	49046
413 S Grove St	413 S Grove St	Delton	MI	49046
612 S Grove St	612 S Grove St	Delton	MI	49046
640 S Grove St	640 S Grove St	Delton	MI	49046
632 S Grove St	632 S Grove St	Delton	MI	49046
622 S Grove St	622 S Grove St	Delton	MI	
				49046
724 S Grove St	724 S Grove St	Delton	MI	49046
714 S Grove St	714 S Grove St	Delton	MI	49046
712 S Grove St	712 S Grove St	Delton	MI	49046
151 Maple St	151 Maple St	Delton	MI	49046
157 Maple St	157 Maple St	Delton	MI	49046
11300 S M 43 Hwy	11300 S M 43 Hwy	Delton	MI	49046
11331 Sprague Rd	11331 Sprague Rd	Delton	MI	49046
11252 Sprague Rd	11252 Sprague Rd	Delton	MI	49046
11200 S M 43 Hwy	11200 S M 43 Hwy	Delton	MI	49046
11192 S M 43 Hwy	11192 S M 43 Hwy	Delton	MI	49046
120 Maple St	120 Maple St	Delton	MI	49046
606 S Grove St	606 S Grove St	Delton	MI	49046
600 S Grove St	600 S Grove St	Delton	MI	49046
530 S Grove St	530 S Grove St	Delton	MI	49046
114 Maple St	114 Maple St	Delton	MI	49046
124 Maple St	124 Maple St	Delton	MI	49046
117 Maple St	117 Maple St	Delton	MI	49046
123 Maple St	123 Maple St	Delton	MI	49046
115 43832 Maple St	115 1/2 Maple St	Delton	MI	49046
		Denon	1111	+5040

115 Maple St	115 Maple St	Delton	MI	49046
160 E Orchard St	160 E Orchard St	Delton	MI	49046
150 E Orchard St	150 E Orchard St	Delton	MI	49046
11266 Sprague Rd	11266 Sprague Rd	Delton	MI	49046
11320 S M 43 Hwy	11320 S M 43 Hwy	Delton	MI	49046
308 S Grove St	, 308 S Grove St	Delton	MI	49046
301 S Grove St	301 S Grove St	Delton	MI	49046
223 S Grove St	223 S Grove St	Delton	MI	49046
215 S Grove St	215 S Grove St	Delton	MI	49046
210 S Grove St	210 S Grove St	Delton	MI	49046
11717 S M 43 Hwy	11717 S M 43 Hwy	Delton	MI	49046
11334 Sprague Rd	11334 Sprague Rd	Delton	MI	49046
11344 Sprague Rd	11344 Sprague Rd	Delton	MI	49046
11345 Sprague Rd	11345 Sprague Rd	Delton	MI	49046
	• •	Delton	MI	
11375 Sprague Rd	11375 Sprague Rd			49046
11385 Sprague Rd	11385 Sprague Rd	Delton	MI	49046
126 E Orchard St	126 E Orchard St	Delton	MI	49046
118 E Orchard St	118 E Orchard St	Delton	MI	49046
211 S Grove St	211 S Grove St	Delton	MI	49046
110 Maple St	110 Maple St	Delton	MI	49046
148 Maple St	148 Maple St	Delton	MI	49046
130 S Grove St	130 S Grove St	Delton	MI	49046
121 S Grove St	121 S Grove St	Delton	MI	49046
117 S Grove St	117 S Grove St	Delton	MI	49046
11340 Sprague Rd	11340 Sprague Rd	Delton	MI	49046
116 S Grove St	116 S Grove St	Delton	MI	49046
11562 S M 43 Hwy	11562 S M 43 Hwy	Delton	MI	49046
11380 S M 43 Hwy	11380 S M 43 Hwy	Delton	MI	49046
11474 S M 43 Hwy	11474 S M 43 Hwy	Delton	MI	49046
102 S Grove St	102 S Grove St	Delton	MI	49046
103 S Grove St	103 S Grove St	Delton	MI	49046
11260 Sprague Rd	11260 Sprague Rd	Delton	MI	49046
11398 Sprague Rd	11398 Sprague Rd	Delton	MI	49046
11399 Sprague Rd	11399 Sprague Rd	Delton	MI	49046
11403 Sprague Rd	11403 Sprague Rd	Delton	MI	49046
11256 Sprague Rd	11256 Sprague Rd	Delton	MI	49046
11254 Sprague Rd	11254 Sprague Rd	Delton	MI	49046
11560 S M 43 Hwy	11560 S M 43 Hwy	Delton	MI	49046
103 N Grove St	103 N Grove St	Delton	MI	49046
108 S Grove St	108 S Grove St	Delton	MI	49046
129 W Orchard St	129 W Orchard St	Delton	MI	49046
11410 Sprague Rd	11410 Sprague Rd	Delton	MI	49046
221 W Orchard St	221 W Orchard St	Delton	MI	49046
11564 S M 43 Hwy	11564 S M 43 Hwy	Delton	MI	49046
11175 E Shore Dr	11175 E Shore Dr	Delton	MI	49046
11119 E Shore Dr	11119 E Shore Dr	Delton	MI	49046
103 Thomas St	103 Thomas St	Delton	MI	49046
100 1101100 00		Denton		-50-10

109 Thomas St	109 Thomas St	Delton	MI	49046
117 Thomas St	117 Thomas St	Delton	MI	49046
201 W Orchard St	201 W Orchard St	Delton	MI	49046
107 N Grove St	107 N Grove St	Delton	MI	49046
11475 Sprague Rd	11475 Sprague Rd	Delton	MI	49046
11037 E Shore Dr	11037 E Shore Dr	Delton	MI	49046
11029 E Shore Dr	11029 E Shore Dr	Delton	MI	49046
11063 E Shore Dr	11063 E Shore Dr	Delton	MI	49046
11053 E Shore Dr	11053 E Shore Dr	Delton	MI	49046
11045 E Shore Dr	11045 E Shore Dr	Delton	MI	49046
11185 E Shore Dr	11185 E Shore Dr	Delton	MI	49046
6620 Central Ave	6620 Central Ave	Delton	MI	49046
6640 Central Ave	6640 Central Ave	Delton	MI	49046 49046
11193 E Shore Dr	11193 E Shore Dr	Delton	MI	49046
11526 S M 43 Hwy	11526 S M 43 Hwy	Delton	MI	49046
12081 S M 43 Hwy	12081 S M 43 Hwy	Delton	MI	49046
12177 S M 43 Hwy	12177 S M 43 Hwy	Delton	MI	49046
11745 S M 43 Hwy	11745 S M 43 Hwy	Delton	MI	49046
11200 E Shore Dr	11200 E Shore Dr	Delton	MI	49046
11178 E Shore Dr	11178 E Shore Dr	Delton	MI	49046
11166 E Shore Dr	11166 E Shore Dr	Delton	MI	49046
11165 E Shore Dr	11165 E Shore Dr	Delton	MI	49046
11159 E Shore Dr	11159 E Shore Dr	Delton	MI	49046
11158 E Shore Dr	11158 E Shore Dr	Delton	MI	49046
11152 E Shore Dr	11152 E Shore Dr	Delton	MI	49046
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11118 E Shore Dr	11118 E Shore Dr	Delton	MI	49046
11110 E Shore Dr	11110 E Shore Dr	Delton	MI	49046
11032 E Shore Dr	11032 E Shore Dr	Delton	MI	49046
11026 E Shore Dr	11026 E Shore Dr	Delton	MI	49046
10932 E Shore Dr	10932 E Shore Dr	Delton	MI	49046
10978 E Shore Dr	10978 E Shore Dr	Delton	MI	49046
301 N Grove St	301 N Grove St	Delton	MI	49046
303 N Grove St	303 N Grove St	Delton	MI	49046
305 N Grove St	305 N Grove St	Delton	MI	49046
307 N Grove St	307 N Grove St	Delton	MI	49046
309 N Grove St	309 N Grove St	Delton	MI	49046
311 N Grove St	311 N Grove St	Delton	MI	49046
313 N Grove St	313 N Grove St	Delton	MI	49046
11250 E Shore Dr	11250 E Shore Dr	Delton	MI	49046
11230 E Shore Dr	11230 E Shore Dr	Delton	MI	49046 49046
11240 E Shore Dr 11232 E Shore Dr	11240 E Shore Dr 11232 E Shore Dr	Delton	MI	49046 49046
11232 E Shore Dr	11232 E Shore Dr	Delton	MI	49046 49046
11222 E Shore Dr 11228 E Shore Dr	11222 E Shore Dr 11228 E Shore Dr	Delton	MI	49046 49046
		Deiton		43040

11718 S M 43 Hwy	11718 S M 43 Hwy	Delton	MI	49046
11686 S M 43 Hwy	11686 S M 43 Hwy	Delton	MI	49046
11324 Sprague Rd	11324 Sprague Rd	Delton	MI	49046
11094 E Shore Dr	11094 E Shore Dr	Delton	MI	49046
11078 E Shore Dr	11078 E Shore Dr	Delton	MI	49046
11070 E Shore Dr	11070 E Shore Dr			
		Delton	MI	49046
11064 E Shore Dr	11064 E Shore Dr	Delton	MI	49046
11058 E Shore Dr	11058 E Shore Dr	Delton	MI	49046
11050 E Shore Dr	11050 E Shore Dr	Delton	MI	49046
11042 E Shore Dr	11042 E Shore Dr	Delton	MI	49046
226 W Orchard St	226 W Orchard St	Delton	MI	49046
10894 E Shore Dr	10894 E Shore Dr	Delton	MI	49046
10836 E Shore Dr	10836 E Shore Dr	Delton	MI	49046
317 N Grove St	317 N Grove St	Delton	MI	49046
319 N Grove St	319 N Grove St	Delton	MI	49046
321 N Grove St	321 N Grove St	Delton	MI	49046
323 N Grove St	323 N Grove St	Delton	MI	49046
325 N Grove St	325 N Grove St	Delton	MI	49046
10936 E Shore Dr	10936 E Shore Dr	Delton	MI	49046
10916 E Shore Dr	10916 E Shore Dr	Delton	MI	49046
10910 E Shore Dr	10910 E Shore Dr	Delton	MI	
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11288 E Shore Dr	11288 E Shore Dr	Delton	MI	49046
11278 E Shore Dr	11278 E Shore Dr	Delton	MI	49046
11270 E Shore Dr	11270 E Shore Dr	Delton	MI	49046
11264 E Shore Dr	11264 E Shore Dr	Delton	MI	49046
11254 E Shore Dr	11254 E Shore Dr	Delton	MI	49046
11260 E Shore Dr	11260 E Shore Dr	Delton	MI	49046
11485 Sprague Rd	11485 Sprague Rd	Delton	MI	49046
11525 Sprague Rd	11525 Sprague Rd	Delton	MI	49046
6628 Weever Ln	6628 Weever Ln	Delton	MI	49046
6639 Weever Ln	6639 Weever Ln	Delton	MI	49046
6597 Lakewood Dr	6597 Lakewood Dr	Delton	MI	49046
6632 Weever Ln	6632 Weever Ln	Delton	MI	49046
6638 Weever Ln	6638 Weever Ln	Delton	MI	49046
6642 Weever Ln	6642 Weever Ln	Delton	MI	49046
11742 S M 43 Hwy	11742 S M 43 Hwy	Delton	MI	49046
6671 Elizabeth St	6671 Elizabeth St	Delton	MI	49046
11331 E Shore Dr	11331 E Shore Dr	Delton	MI	49046
11541 Sprague Rd	11541 Sprague Rd	Delton	MI	49046
10790 E Shore Dr	10790 E Shore Dr			
		Delton	MI	49046
10744 E Shore Dr	10744 E Shore Dr	Delton	MI	49046
10784 E Shore Dr	10784 E Shore Dr	Delton	MI	49046
10778 E Shore Dr	10778 E Shore Dr	Delton	MI	49046
11749 Sprague Rd	11749 Sprague Rd	Delton	MI	49046
10828 E Shore Dr	10828 E Shore Dr	Delton	MI	49046
10833 E Shore Dr	10833 E Shore Dr	Delton	MI	49046
10818 E Shore Dr	10818 E Shore Dr	Delton	MI	49046

10805	E Shore Dr	10805 E Shore Dr	Delton	MI	49046
10815	E Shore Dr	10815 E Shore Dr	Delton	MI	49046
6656	Elizabeth St	6656 Elizabeth St	Delton	MI	49046
6674	Elizabeth St	6674 Elizabeth St	Delton	MI	49046
6683	Elizabeth St	6683 Elizabeth St	Delton	MI	49046
6682	Elizabeth St	6682 Elizabeth St	Delton	MI	49046
6691	Elizabeth St	6691 Elizabeth St	Delton	MI	49046
6690	Elizabeth St	6690 Elizabeth St	Delton	MI	49046
6635	Weever Ln	6635 Weever Ln	Delton	MI	49046
6325	Delton Rd	6325 Delton Rd	Delton	MI	49046
10755	E Shore Dr	10755 E Shore Dr	Delton	MI	49046
6739	Island Ave	6739 Island Ave	Delton	MI	49046
6741	Island Ave	6741 Island Ave	Delton	MI	49046
6742	Island Ave	6742 Island Ave	Delton	MI	49046
6726	Island Ave	6726 Island Ave	Delton	MI	49046
11356	Sprague Rd	11356 Sprague Rd	Delton	MI	49046
11492	Sprague Rd	11492 Sprague Rd	Delton	MI	49046
11356	E Shore Dr	11356 E Shore Dr	Delton	MI	49046
11362	E Shore Dr	11362 E Shore Dr	Delton	MI	49046
11346	E Shore Dr	11346 E Shore Dr	Delton	MI	49046
11340	E Shore Dr	11340 E Shore Dr	Delton	MI	49046
11300	E Shore Dr	11300 E Shore Dr	Delton	MI	49046
11614	Sprague Rd	11614 Sprague Rd	Delton	MI	49046
11383	E Shore Dr	11383 E Shore Dr	Delton	MI	49046
11402	E Shore Dr	11402 E Shore Dr	Delton	MI	49046
11398	E Shore Dr	11398 E Shore Dr	Delton	MI	49046
11450	Sytsma Dr	11450 Sytsma Dr	Delton	MI	49046
11442	Sytsma Dr	11442 Sytsma Dr	Delton	MI	49046
11436	Sytsma Dr	11436 Sytsma Dr	Delton	MI	49046
11438	Sytsma Dr	11438 Sytsma Dr	Delton	MI	49046
315	N Grove St	315 N Grove St	Delton	MI	49046
10741	E Shore Dr	10741 E Shore Dr	Delton	MI	49046
11840	Sprague Rd	11840 Sprague Rd	Delton	MI	49046
6807	Shoreline Dr	6807 Shoreline Dr	Delton	MI	49046
11542	Sprague Rd	11542 Sprague Rd	Delton	MI	49046
11386	E Shore Dr	11386 E Shore Dr	Delton	MI	49046
6831	Shoreline Dr	6831 Shoreline Dr	Delton	MI	49046
11427	E Shore Dr	11427 E Shore Dr	Delton	MI	49046
11440	E Shore Dr	11440 E Shore Dr	Delton	MI	49046
11426	E Shore Dr	11426 E Shore Dr	Delton	MI	49046
11422	E Shore Dr	11422 E Shore Dr	Delton	MI	49046
11410	E Shore Dr	11410 E Shore Dr	Delton	MI	49046
11846	Sprague Rd	11846 Sprague Rd	Delton	MI	49046
11451	E Shore Dr	11451 E Shore Dr	Delton	MI	49046
11459	E Shore Dr	11459 E Shore Dr	Delton	MI	49046
11448	E Shore Dr	11448 E Shore Dr	Delton	MI	49046
6850	Shoreline Dr	6850 Shoreline Dr	Delton	MI	49046

11465	5 E Shore Dr	11465 E Shore Dr	Delton	MI	49046
6863	Shoreline Dr	6863 Shoreline Dr	Delton	MI	49046
10425	Panther Pride	10425 Panther Pride	Delton	MI	49046
11474	E Shore Dr	11474 E Shore Dr	Delton	MI	49046
6802	Shoreline Dr	6802 Shoreline Dr	Delton	MI	49046
6894	Shoreline Dr	6894 Shoreline Dr	Delton	MI	49046
	2 Shoreline Dr	6882 Shoreline Dr	Delton	MI	49046
	E Shore Dr	11482 E Shore Dr	Delton	MI	49046
	Delton Rd	6599 Delton Rd	Delton	MI	49046
	Stoney Point Dr	10353 Stoney Point Dr	Delton	MI	49046
	Shoreline Dr	6923 Shoreline Dr	Delton	MI	49046
	Shoreline Dr	6899 Shoreline Dr	Delton	MI	49046
	Shoreline Dr	6961 Shoreline Dr	Delton	MI	49046
	Shoreline Dr	6918 Shoreline Dr	Delton	MI	49046
	Shoreline Dr	6906 Shoreline Dr	Delton	MI	49046
	Stoney Point Dr	10505 Stoney Point Dr	Delton	MI	49046
	5 Delton Rd	6635 Delton Rd	Delton	MI	49046
	Shoreline Dr	6973 Shoreline Dr	Delton	MI	49046
	Shoreline Dr	6991 Shoreline Dr	Delton	MI	49046
	Shoreline Dr	6977 Shoreline Dr	Delton	MI	49046
	Shoreline Dr	6979 Shoreline Dr	Delton	MI	49046
	Shoreline Dr	6981 Shoreline Dr	Delton	MI	49046
	Shoreline Dr	6983 Shoreline Dr	Delton	MI	49046
	Shoreline Dr	6989 Shoreline Dr	Delton	MI	49046
	Shoreline Dr	6993 Shoreline Dr	Delton	MI	49046
	Shoreline Dr	6974 Shoreline Dr	Delton	MI	49046
	5 Donegal Ln	6925 Donegal Ln	Delton	MI	49046
	Shoreline Dr	6984 Shoreline Dr	Delton	MI	49046
	2 Shoreline Dr	7002 Shoreline Dr	Delton	MI	49046
10565	Stoney Point Dr	10565 Stoney Point Dr	Delton	MI	49046
10938	8 Stoney Point Dr	10938 Stoney Point Dr	Delton	MI	49046
10535	5 Stoney Point Dr	10535 Stoney Point Dr	Delton	MI	49046
6677	' Delton Rd	6677 Delton Rd	Delton	MI	49046
10691	. Stoney Point Dr	10691 Stoney Point Dr	Delton	MI	49046
7026	Shoreline Dr	7026 Shoreline Dr	Delton	MI	49046
7032	Shoreline Dr	7032 Shoreline Dr	Delton	MI	49046
7020	) Shoreline Dr	7020 Shoreline Dr	Delton	MI	49046
10510	) Stoney Point Dr	10510 Stoney Point Dr	Delton	MI	49046
7010	) Shoreline Dr	7010 Shoreline Dr	Delton	MI	49046
7023	Shoreline Dr	7023 Shoreline Dr	Delton	MI	49046
7039	Shoreline Dr	7039 Shoreline Dr	Delton	MI	49046
7031	Shoreline Dr	7031 Shoreline Dr	Delton	MI	49046
10511	. Stoney Point Dr	10511 Stoney Point Dr	Delton	MI	49046
	' Stoney Point Dr	10957 Stoney Point Dr	Delton	MI	49046
	Stoney Point Dr	, 10451 Stoney Point Dr	Delton	MI	49046
	Stoney Point Dr	10464 Stoney Point Dr	Delton	MI	49046
	Stoney Point Dr	10425 Stoney Point Dr	Delton	MI	49046
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7145	Shoreline Dr	7145 Shoreline Dr	Delton	MI	49046
6693	Delton Rd	6693 Delton Rd	Delton	MI	49046
10399	Stoney Point Dr	10399 Stoney Point Dr	Delton	MI	49046
	, Stoney Point Dr	, 10605 Stoney Point Dr	Delton	MI	49046
	Stoney Point Dr	10585 Stoney Point Dr	Delton	MI	49046
	Stoney Point Dr	10575 Stoney Point Dr	Delton	MI	49046
	Shoreline Dr	7084 Shoreline Dr	Delton	MI	49046
	Shoreline Dr	7096 Shoreline Dr	Delton	MI	49046
	Shoreline Dr	7102 Shoreline Dr	Delton	MI	49046
	Shoreline Dr	7057 Shoreline Dr	Delton	MI	49046
	Shoreline Dr	7071 Shoreline Dr	Delton	MI	49046
	Shoreline Dr	7091 Shoreline Dr	Delton	MI	49046
	Shoreline Dr	7052 Shoreline Dr	Delton	MI	49046
	Stoney Point Dr	10555 Stoney Point Dr	Delton	MI	49046
	Stoney Point Dr	10840 Stoney Point Dr	Delton	MI	49046
	Stoney Point Dr	10842 Stoney Point Dr	Delton	MI	49046
	Stoney Point Dr	10824 Stoney Point Dr	Delton	MI	49046
	Stoney Point Dr	10818 Stoney Point Dr	Delton	MI	49046
10800	Stoney Point Dr	10800 Stoney Point Dr	Delton	MI	49046
10790	Stoney Point Dr	10790 Stoney Point Dr	Delton	MI	49046
10641	Stoney Point Dr	10641 Stoney Point Dr	Delton	MI	49046
10672	Stoney Point Dr	10672 Stoney Point Dr	Delton	MI	49046
7134	Shoreline Dr	7134 Shoreline Dr	Delton	MI	49046
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7118	Shoreline Dr	7118 Shoreline Dr	Delton	MI	49046
7133	Shoreline Dr	7133 Shoreline Dr	Delton	MI	49046
10699	Stoney Point Dr	10699 Stoney Point Dr	Delton	MI	49046
6762	Delton Rd	6762 Delton Rd	Delton	MI	49046
10662	Stoney Point Dr	10662 Stoney Point Dr	Delton	MI	49046
10658	Stoney Point Dr	10658 Stoney Point Dr	Delton	MI	49046
	Stoney Point Dr	10654 Stoney Point Dr	Delton	MI	49046
	, Stoney Point Dr	, 10646 Stoney Point Dr	Delton	MI	49046
	Stoney Point Dr	10754 Stoney Point Dr	Delton	MI	49046
	, Stoney Point Dr	, 10740 Stoney Point Dr	Delton	MI	49046
	Stoney Point Dr	10720 Stoney Point Dr	Delton	МІ	49046
	Stoney Point Dr	10696 Stoney Point Dr	Delton	MI	49046
	Stoney Point Dr	10690 Stoney Point Dr	Delton	MI	49046
	Stoney Point Dr	10684 Stoney Point Dr	Delton	MI	49046
	Stoney Point Dr	10786 Stoney Point Dr	Delton	MI	49046
	Stoney Point Dr	10764 Stoney Point Dr	Delton	MI	49046
	Delton Rd	6983 Delton Rd	Delton	MI	
		10716 Stoney Point Dr	Delton	MI	49046 49046
	Stoney Point Dr		Delton		
	Stoney Point Dr	10700 Stoney Point Dr		MI	49046
	Highland Dr	10455 Highland Dr	Delton	MI	49046
	Division Ave	7020 Division Ave	Delton	MI	49046
	Division Ave	7036 Division Ave	Delton	MI	49046
10435	Sunshine Dr	10435 Sunshine Dr	Delton	MI	49046

6981	Delton Rd	6981 Delton Rd	Delton	MI	49046
10437	Sunshine Dr	10437 Sunshine Dr	Delton	MI	49046
10464	Sunshine Dr	10464 Sunshine Dr	Delton	MI	49046
11080	Kingsbury Rd	11080 Kingsbury Rd	Delton	MI	49046
528	S Grove St	528 S Grove St	Delton	MI	49046
11030	Kingsbury Rd	11030 Kingsbury Rd	Delton	MI	49046
	Stoney Point Dr	10758 Stoney Point Dr	Delton	MI	49046
	, Highland Dr	10575 Highland Dr	Delton	MI	49046
	Highland Dr	10551 Highland Dr	Delton	MI	49046
	Shoreline Dr	7162 Shoreline Dr	Delton	MI	49046
		9717 4 Mile Rd	Plainwell	MI	49080
	E Point Dr	11382 E Point Dr	Delton	MI	49046
	4 Mile Rd	10040 4 Mile Rd	Plainwell	MI	49080
	4 Mile Rd	9950 4 Mile Rd	Plainwell	MI	49080
	Norris Rd	12450 Norris Rd	Plainwell	MI	49080
	E Point Dr	11370 E Point Dr	Delton	MI	49046
		9790 4 Mile Rd	Plainwell	MI	49080
	4 Mile Rd	10245 4 Mile Rd	Plainwell	MI	49080
	4 Mile Rd	10301 4 Mile Rd	Plainwell	MI	49080
	Enzian Rd	12195 Enzian Rd	Plainwell	MI	49080
	4 Mile Rd	10363 4 Mile Rd	Plainwell	MI	49080
	Kingsbury Rd	11404 Kingsbury Rd	Delton	MI	49046
		9740 4 Mile Rd	Plainwell	MI	49080
	4 Mile Rd	10238 4 Mile Rd	Plainwell	MI	49080
	Enzian Rd	12405 Enzian Rd	Plainwell	MI	
		11897 Enzian Rd		MI	49080
	Enzian Rd		Plainwell		49080
	E Point Dr	11378 E Point Dr	Delton	MI	49046
	Osborne Rd	4740 Osborne Rd	Delton	MI	49046
	Kingsbury Rd	12230 Kingsbury Rd	Delton		49046
	E Point Dr	11354 E Point Dr	Delton	MI	49046
	E Point Dr	11362 E Point Dr		MI	49046
	Pleasant Lake Rd	14675 Pleasant Lake Rd	Delton	MI	49046
	Enzian Rd	12069 Enzian Rd	Plainwell	MI	49080
	Enzian Rd	12759 Enzian Rd		MI	49080
	W Hickory Rd	3001 W Hickory Rd	Hickory Co		49060
	E Point Dr	11368 E Point Dr	Delton	MI	49046
	Enzian Rd	11335 Enzian Rd	Plainwell	MI	49080
	Enzian Rd	12651 Enzian Rd	Plainwell	MI	49080
	Norris Rd	13001 Norris Rd	Plainwell	MI	49080
12420	Kingsbury Rd	12420 Kingsbury Rd	Delton	MI	49046
2449	Hickory Rd	2449 Hickory Rd	Delton	MI	49046
5100	Osborne Rd	5100 Osborne Rd	Delton	MI	49046
2401	Hickory Rd	2401 Hickory Rd	Delton	MI	49046
8072	Kingsbury Rd	8072 Kingsbury Rd	Delton	MI	49046
11326	Pleasant Lake Rd	11326 Pleasant Lake Rd	Delton	MI	49046
4173	W Cloverdale Rd	4173 W Cloverdale Rd	Delton	MI	49046
5110	Osborne Rd	5110 Osborne Rd	Delton	MI	49046

112	25 Enzian Rd	11225 Enzian Rd	Plainwell	MI	49080
24	09 Hickory Rd	2409 Hickory Rd	Delton	MI	49046
120	25 Floria Rd	12025 Floria Rd	Delton	MI	49046
1110	01 Pleasant Lake Rd	11101 Pleasant Lake Rd	Delton	MI	49046
22	27 Hickory Rd	2227 Hickory Rd	Delton	MI	49046
	97 Floria Rd	11897 Floria Rd	Delton	MI	49046
	61 Floria Rd	11861 Floria Rd	Delton	МІ	49046
	07 Hickory Rd	2207 Hickory Rd	Delton	MI	49046
	80 4 Mile Rd	9580 4 Mile Rd	Plainwell	MI	49080
	28 Norris Rd	12728 Norris Rd	Plainwell	MI	49080
	02 Mann Rd	14702 Mann Rd	Hickory Co		49060
	33 W Cloverdale Rd	4333 W Cloverdale Rd	Delton	MI	49046
	75 Enzian Rd	11175 Enzian Rd	Plainwell	MI	49080
	47 Osborne Rd	5247 Osborne Rd	Delton	MI	49046
	60 Floria Rd	12260 Floria Rd	Delton	MI	49046
	45 Floria Rd	11845 Floria Rd	Delton	MI	49046
	50 Floria Rd	11845 Floria Rd	Delton	MI	49046
			Delton	MI	49046
	50 Kingsbury Rd	8050 Kingsbury Rd	Delton	MI	
	01 S Norris Rd	11501 S Norris Rd			49046
	01 43832 S Norris Rd	11501 1/2 S Norris Rd	Delton	MI	49046
	64 Mann Rd	14864 Mann Rd	Hickory Co		49060
	55 W Cloverdale Rd	4455 W Cloverdale Rd	Delton	MI	49046
	36 Floria Rd	12336 Floria Rd	Delton	MI	49046
	15 Enzian Rd	11115 Enzian Rd	Plainwell	MI	49080
	91 Floria Rd	12491 Floria Rd	Delton	MI	49046
	25 Enzian Rd	12625 Enzian Rd	Plainwell	MI	49080
	92 Floria Rd	12292 Floria Rd	Delton	MI	49046
	30 Milo Rd	9530 Milo Rd	Plainwell	MI	49080
	20 Milo Rd	9520 Milo Rd	Plainwell	MI	49080
	00 Osborne Rd	5400 Osborne Rd	Delton	MI	49046
	73 Floria Rd	11773 Floria Rd	Delton	MI	49046
	30 Kellogg School Rd	12830 Kellogg School Rd	Delton	MI	49046
	75 W Cloverdale Rd	4775 W Cloverdale Rd	Delton	MI	49046
	05 W Hickory Rd	3605 W Hickory Rd	Hickory Co		49060
	01 W Cloverdale Rd	4601 W Cloverdale Rd	Delton	MI	49046
	40 Kellogg School Rd	12840 Kellogg School Rd	Delton	MI	49046
	30 Floria Rd	11830 Floria Rd	Delton	MI	49046
118	16 Floria Rd	11816 Floria Rd	Delton	MI	49046
20	17 Hickory Rd	2017 Hickory Rd	Delton	MI	49046
110	25 Enzian Rd	11025 Enzian Rd	Plainwell	MI	49080
117	61 Floria Rd	11761 Floria Rd	Delton	MI	49046
49	89 E Orchard St	4989 E Orchard St	Delton	MI	49046
49	75 E Orchard St	4975 E Orchard St	Delton	MI	49046
55	80 Osborne Rd	5580 Osborne Rd	Delton	MI	49046
115	75 Floria Rd	11575 Floria Rd	Delton	MI	49046
148	11 Mann Rd	14811 Mann Rd	Hickory Co	MI	49060
114	15 Floria Rd	11415 Floria Rd	Delton	MI	49046

9688	4 Mile Rd	9688 4 Mile Rd	Plainwell	MI	49080
11657	Floria Rd	11657 Floria Rd	Delton	MI	49046
8294	Kingsbury Rd	8294 Kingsbury Rd	Delton	MI	49046
	• ,	4360 Waldorf Rd	Delton	MI	49046
11802	Floria Rd	11802 Floria Rd	Delton	MI	49046
		3801 W Hickory Rd	Hickory Co		49060
	Floria Rd	11806 Floria Rd	Delton	MI	49046
	Floria Rd	11557 Floria Rd	Delton	MI	49046
		5640 Osborne Rd	Delton	MI	49046
		5780 Osborne Rd	Delton	MI	49046
		9306 Milo Rd	Plainwell	MI	49080
	Kingsbury Rd	12102 Kingsbury Rd 5914 Osborne Rd	Delton Delton	MI MI	49046
					49046
	•	6865 W Hickory Rd	Hickory Co		49060
	Ford Rd	10646 Ford Rd	Delton	MI	49046
		9290 Milo Rd	Plainwell	MI	49080
	S Norris Rd	12149 S Norris Rd	Delton	MI	49046
	Floria Rd	11535 Floria Rd	Delton	MI	49046
	Mann Rd	14851 Mann Rd	Hickory Co	MI	49060
10852	Enzian Rd	10852 Enzian Rd	Delton	MI	49046
4785	W Cloverdale Rd	4785 W Cloverdale Rd	Delton	MI	49046
11706	Floria Rd	11706 Floria Rd	Delton	MI	49046
4726	Waldorf Rd	4726 Waldorf Rd	Delton	MI	49046
11538	Floria Rd	11538 Floria Rd	Delton	MI	49046
4950	Herbert Rd	4950 Herbert Rd	Hickory Co	MI	49060
11565	Enzian Rd	11565 Enzian Rd	Plainwell	MI	49080
9000	Milo Rd	9000 Milo Rd	Delton	MI	49046
12902	Kellogg School Rd	12902 Kellogg School Rd	Delton	MI	49046
		5950 Osborne Rd	Delton	MI	49046
1881	Hickory Rd	1881 Hickory Rd	Delton	MI	49046
	•	9050 Milo Rd	Delton	MI	49046
	Kingsbury Rd	10330 Kingsbury Rd	Delton	MI	49046
	Osborne Rd	5962 Osborne Rd	Delton	MI	49046
	Osborne Rd	6000 Osborne Rd	Delton	MI	49046
	W Cloverdale Rd	5179 W Cloverdale Rd	Delton	MI	49046
	Mann Rd	15145 Mann Rd	Hickory Co		49060
	S Norris Rd	10835 S Norris Rd	Delton	MI	49046
	Herbert Rd	5810 Herbert Rd	Hickory Co		49060
	W Cloverdale Rd	5267 W Cloverdale Rd	Delton	MI	49046
		4775 E Orchard St	Delton	MI	49046
	Waldorf Rd	4800 Waldorf Rd	Delton	MI	49046
	Hickory Rd	1525 Hickory Rd	Delton	MI	49046
	Hickory Rd	1703 Hickory Rd	Delton	MI	49046
	Houvener Rd	10999 Houvener Rd	Delton	MI	49046
		4665 E Orchard St	Delton	MI	49046
	W Cloverdale Rd	5317 W Cloverdale Rd	Delton	MI	49046
5460	Guernsey Lake Rd	5460 Guernsey Lake Rd	Cloverdale	MI	49035

7697 Herman Dr	7697 Herman Dr	Cloverdale MI	49035
7583 S M 43 Hwy	7583 S M 43 Hwy	Cloverdale MI	49035
, 7596 S M 43 Hwy	, 7596 S M 43 Hwy	Cloverdale MI	49035
, 7647 S M 43 Hwy	, 7647 S M 43 Hwy	Cloverdale MI	49035
, 7649 S M 43 Hwy	, 7649 S M 43 Hwy	Cloverdale MI	49035
, 7651 S M 43 Hwy	, 7651 S M 43 Hwy	Cloverdale MI	49035
, 7657 S M 43 Hwy	, 7657 S M 43 Hwy	Cloverdale MI	49035
, 7760 S M 43 Hwy	, 7760 S M 43 Hwy	Cloverdale MI	49035
, 7776 S M 43 Hwy	, 7776 S M 43 Hwy	Cloverdale MI	49035
7826 S M 43 Hwy	, 7826 S M 43 Hwy	Cloverdale MI	49035
7844 S M 43 Hwy	7844 S M 43 Hwy	Cloverdale MI	49035
7960 S M 43 Hwy	7960 S M 43 Hwy	Cloverdale MI	49035
7994 S M 43 Hwy	7994 S M 43 Hwy	Cloverdale MI	49035
5175 School House Dr	5175 School House Dr	Cloverdale MI	49035
4415 E Orchard St	4415 E Orchard St	Delton MI	49046
4411 E Orchard St	4411 E Orchard St	Delton MI	49046
4407 E Orchard St	4407 E Orchard St	Delton MI	49046
4483 E Orchard St	4483 E Orchard St	Delton MI	49046
4485 E Orchard St	4485 E Orchard St	Delton MI	49046
928 E Hickory Rd	928 E Hickory Rd	Battle Cree MI	49017
415 E Orchard St	415 E Orchard St	Delton MI	49046
447 E Orchard St	447 E Orchard St	Delton MI	49046
914 E Hickory Rd	914 E Hickory Rd	Battle Cree MI	49017
12725 Hallock Rd	12725 Hallock Rd	Delton MI	49046
11125 S Norris Rd	11125 S Norris Rd	Delton MI	49046
4920 Waldorf Rd	4920 Waldorf Rd	Delton MI	49046
1475 Hickory Rd	1475 Hickory Rd	Delton MI	49046
12860 S Parker Rd	12860 S Parker Rd	Delton MI	49046
14600 Banfield Rd	14600 Banfield Rd	Battle Cree MI	49017
10381 Brickyard Rd	10381 Brickyard Rd	Delton MI	49046
892 E Hickory Rd	892 E Hickory Rd	Battle Cree MI	49017
4968 Waldorf Rd	4968 Waldorf Rd	Delton MI	49046
10944 Houvener Rd	10944 Houvener Rd	Delton MI	49046
10520 Enzian Rd	10520 Enzian Rd	Delton MI	49046
10120 Kingsbury Rd	10120 Kingsbury Rd	Delton MI	49046
10957 Houvener Rd	10957 Houvener Rd	Delton MI	49046
828 E Hickory Rd	828 E Hickory Rd	Battle Cree MI	49017
11372 S Parker Rd	11372 S Parker Rd	Delton MI	49046
10450 Enzian Rd	10450 Enzian Rd	Delton MI	49046
4359 E Orchard St	4359 E Orchard St	Delton MI	49046
2650 Sheffield Rd	2650 Sheffield Rd	Hickory Col MI	49060
4389 E Orchard St	4389 E Orchard St	Delton MI	49046
5590 E Orchard St	5590 E Orchard St	Delton MI	49046
10295 Brickyard Rd	10295 Brickyard Rd	Delton MI	49046
2532 Sheffield Rd	2532 Sheffield Rd	Hickory Col MI	49060
736 E Hickory Rd	736 E Hickory Rd	Battle Cree MI	49017
4225 E Orchard St	4225 E Orchard St	Delton MI	49046

4145	E Orchard St	4145 E Orchard St	Delton MI	49046
10681	Shelp Lake Dr	10681 Shelp Lake Dr	Delton MI	49046
4375	E Orchard St	4375 E Orchard St	Delton MI	49046
7880	Milo Rd	7880 Milo Rd	Delton MI	49046
10277	Brickyard Rd	10277 Brickyard Rd	Delton MI	49046
10255	Brickyard Rd	10255 Brickyard Rd	Delton MI	49046
10943	S Norris Rd	10943 S Norris Rd	Delton MI	49046
12730	Hallock Rd	12730 Hallock Rd	Delton MI	49046
10380	Enzian Rd	10380 Enzian Rd	Delton MI	49046
2816	Sheffield Rd	2816 Sheffield Rd	Hickory Co MI	49060
	Osborne Rd	6360 Osborne Rd	, Delton MI	49046
	Hickory Rd	1355 Hickory Rd	Delton MI	49046
	Hickory Rd	1347 Hickory Rd	Delton MI	49046
	Sheffield Rd	3064 Sheffield Rd	Hickory Co MI	49060
	Shelp Lake Dr	10705 Shelp Lake Dr	Delton MI	49046
	Enzian Rd	10280 Enzian Rd	Delton MI	49046
	E Orchard St	4292 E Orchard St	Delton MI	49046
	Milo Rd	7986 Milo Rd	Delton MI	49046
	Milo Rd	7990 Milo Rd	Delton MI	49046
	Sheffield Rd	3584 Sheffield Rd	Hickory Co MI	49060
	E Orchard St	4055 E Orchard St	Delton MI	49046
	Milo Rd	8188 Milo Rd	Delton MI	49046
	Foley Dr	9913 Foley Dr	Delton MI	49046
	Foley Dr	9979 Foley Dr	Delton MI	49046
	Shelp Lake Dr		Delton MI	
		10775 Shelp Lake Dr		49046
	Milo Rd	8210 Milo Rd	Delton MI	49046
	Milo Rd	8222 Milo Rd	Delton MI	49046
	Sheffield Rd	1870 Sheffield Rd	Hickory Col MI	49060
	Waldorf Rd	5046 Waldorf Rd	Delton MI	49046
	Sheffield Rd	3345 Sheffield Rd	Hickory Col MI	49060
	Osborne Rd	6343 Osborne Rd	Delton MI	49046
	Brickyard Rd	9703 Brickyard Rd	Delton MI	49046
	E Hickory Rd	654 E Hickory Rd	Battle Cree MI	49017
	S Parker Rd	12330 S Parker Rd	Delton MI	49046
	Banfield Rd	14800 Banfield Rd	Battle Cree MI	49017
	S M 43 Hwy	8233 S M 43 Hwy	Delton MI	49046
	E Orchard St	4400 E Orchard St	Delton MI	49046
	Mann Rd	15701 Mann Rd	Hickory Co MI	49060
	Hallock Rd	12812 Hallock Rd	Delton MI	49046
8320	Milo Rd	8320 Milo Rd	Delton MI	49046
222	E Leinaar Rd	222 E Leinaar Rd	Battle Cree MI	49017
5377	Brickyard Rd	5377 Brickyard Rd	Delton MI	49046
	S Eddy Rd	9801 S Eddy Rd	Delton MI	49046
10719	Shelp Lake Dr	10719 Shelp Lake Dr	Delton MI	49046
10731	Shelp Lake Dr	10731 Shelp Lake Dr	Delton MI	49046
10747	Shelp Lake Dr	10747 Shelp Lake Dr	Delton MI	49046
10761	Shelp Lake Dr	10761 Shelp Lake Dr	Delton MI	49046

3227	Sheffield Rd	3227 Sheffield Rd	Hickory Col MI	49060
600	E Hickory Rd	600 E Hickory Rd	Battle Cree MI	49017
2444	Sheffield Rd	2444 Sheffield Rd	Hickory Co MI	49060
8570	Milo Rd	8570 Milo Rd	Delton MI	49046
	Foley Dr	9849 Foley Dr	Delton MI	49046
	Waldorf Rd	5124 Waldorf Rd	Delton MI	49046
	Milo Rd	8536 Milo Rd	Delton MI	49046
	Shelp Lake Dr	10793 Shelp Lake Dr	Delton MI	49046
	Shelp Lake Dr	10807 Shelp Lake Dr	Delton MI	49046
	E Orchard St	4052 E Orchard St	Delton MI	49046
	Hickory Rd	1201 Hickory Rd	Delton MI	49046
	Sheffield Rd	3740 Sheffield Rd		49060
			Hickory Col MI Battle Cree MI	
	E Hickory Rd	524 E Hickory Rd		49017
	Shelp Lake Dr	10831 Shelp Lake Dr	Delton MI	49046
	Shelp Lake Dr	10841 Shelp Lake Dr	Delton MI	49046
	Shelp Lake Dr	10837 Shelp Lake Dr	Delton MI	49046
	Shelp Lake Dr	10847 Shelp Lake Dr	Delton MI	49046
	Shelp Lake Dr	10855 Shelp Lake Dr	Delton MI	49046
	E Orchard St	4130 E Orchard St	Delton MI	49046
	Lepper Rd	15600 Lepper Rd	Hickory Col MI	49060
9755	S Eddy Rd	9755 S Eddy Rd	Delton MI	49046
10863	Shelp Lake Dr	10863 Shelp Lake Dr	Delton MI	49046
172	E Leinaar Rd	172 E Leinaar Rd	Battle Cree MI	49017
5211	Walnut Rdg	5211 Walnut Rdg	Battle Cree MI	49017
5174	Walnut Rdg	5174 Walnut Rdg	Battle Cree MI	49017
5313	Brickyard Rd	5313 Brickyard Rd	Delton MI	49046
12329	S Parker Rd	12329 S Parker Rd	Delton MI	49046
14447	N Uldriks Dr	14447 N Uldriks Dr	Battle Cree MI	49017
14443	N Uldriks Dr	14443 N Uldriks Dr	Battle Cree MI	49017
8500	Milo Rd	8500 Milo Rd	Delton MI	49046
8280	Milo Rd	8280 Milo Rd	Delton MI	49046
10761	S Norris Rd	10761 S Norris Rd	Delton MI	49046
6387	Osborne Rd	6387 Osborne Rd	Delton MI	49046
6372	Osborne Rd	6372 Osborne Rd	Delton MI	49046
	S Crooked Lake Dr	7913 S Crooked Lake Dr	Delton MI	49046
	Hickory Rd	1077 Hickory Rd	Delton MI	49046
	Brooklodge Rd	15365 Brooklodge Rd	Hickory Co MI	49060
	E Orchard St	4122 E Orchard St	Delton MI	49046
	S Parker Rd	12011 S Parker Rd	Delton MI	49046
	Kelly Rd	13368 Kelly Rd	Hickory Co MI	49060
	Ferris Rd	1035 Ferris Rd	Battle Cree MI	49017
	Foley Dr	9775 Foley Dr	Delton MI	49046
	S Parker Rd	13399 S Parker Rd	Delton MI	49046 49046
	Manning Lake Rd	14632 Manning Lake Rd	Battle Cree MI	49017
	Kingsbury Rd	9650 Kingsbury Rd	Delton MI	49017
	N Uldriks Dr	14455 N Uldriks Dr		
			Battle Cree MI	49017
14534	Manning Lake Rd	14534 Manning Lake Rd	Battle Cree MI	49017

7900	S Crooked Lake Dr	7900 S Crooked Lake Dr	Delton	MI	49046
15453	Brooklodge Rd	15453 Brooklodge Rd	Hickory Co	MI	49060
15405	Brooklodge Rd	15405 Brooklodge Rd	Hickory Co	MI	49060
7895	S Crooked Lake Dr	7895 S Crooked Lake Dr	Delton	MI	49046
6500	Osborne Rd	6500 Osborne Rd	Delton	MI	49046
10879	Shelp Lake Dr	10879 Shelp Lake Dr	Delton	MI	49046
10897	Shelp Lake Dr	10897 Shelp Lake Dr	Delton	MI	49046
10905	Shelp Lake Dr	10905 Shelp Lake Dr	Delton	MI	49046
	Shelp Lake Dr	10910 Shelp Lake Dr	Delton	MI	49046
6510	Osborne Rd	6510 Osborne Rd	Delton	MI	49046
6427	Osborne Rd	6427 Osborne Rd	Delton	MI	49046
5375	Wakley Dr	5375 Wakley Dr	Delton	MI	49046
	, Waldorf Rd	5270 Waldorf Rd	Delton	MI	49046
	Waldorf Rd	5118 Waldorf Rd		MI	49046
	W Hickory Rd	991 W Hickory Rd	Battle Cree		49017
	W Hickory Rd	994 W Hickory Rd	Battle Cree		49017
	Manning Lake Rd	14690 Manning Lake Rd	Battle Cree		49017
	S Parker Rd	12095 S Parker Rd		MI	49046
	Manning Lake Rd	14141 Manning Lake Rd	Battle Cree		49017
	Sheffield Rd	3745 Sheffield Rd	Hickory Co		49060
	Shelp Lake Dr	10915 Shelp Lake Dr	-	MI	49046
	Osborne Rd	6465 Osborne Rd		MI	49046
	S Norris Rd	10751 S Norris Rd		MI	49046
	S Parker Rd	12825 S Parker Rd		MI	49046
	Pine Lake Rd	10795 Pine Lake Rd		MI	49046
	Osborne Rd	6511 Osborne Rd		MI	49046
	S Parker Rd	12850 S Parker Rd		MI	49046
	S Parker Rd	10690 S Parker Rd		MI	49046
	N Uldriks Dr	14781 N Uldriks Dr	Battle Cree		49017
-	Osborne Rd	6514 Osborne Rd		MI	49046
	Walnut Rdg	5181 Walnut Rdg	Battle Cree		49017
	Walnut Rdg	5141 Walnut Rdg	Battle Cree		49017
	Walnut Rdg	5162 Walnut Rdg	Battle Cree		49017
	Walnut Rdg	5183 Walnut Rdg	Battle Cree		49017
	Walnut Rdg	•	Battle Cree		49017
	Manning Lake Rd	5121 Walnut Rdg 14225 Manning Lake Rd	Battle Cree		
	•	•			49017
	Wakley Dr	5374 Wakley Dr		MI	49046
	Wakley Dr	5362 Wakley Dr		MI	49046
	Waldorf Rd	5290 Waldorf Rd		MI	49046
	S Parker Rd	12800 S Parker Rd		MI	49046
	Osborne Rd	6519 Osborne Rd		MI	49046
	Osborne Rd	6515 Osborne Rd		MI	49046
	Brooklodge Rd	15495 Brooklodge Rd	Hickory Co		49060
	Osborne Rd	6518 Osborne Rd		MI	49046
	Herbert Rd	6520 Herbert Rd		MI	49046
	Kingsbury Rd	9740 Kingsbury Rd		MI	49046
9629	S Eddy Rd	9629 S Eddy Rd	Delton	MI	49046

5064	Walnut Rdg	5064 Walnut Rdg	Battle Cree MI	49017
	Walnut Rdg	13925 Walnut Rdg	Battle Cree MI	49017
	Walnut Rdg	5101 Walnut Rdg	Battle Cree MI	49017
	Walnut Rdg	5081 Walnut Rdg	Battle Cree MI	49017
	Walnut Rdg	5091 Walnut Rdg	Battle Cree MI	49017
	Walnut Rdg	5072 Walnut Rdg	Battle Cree MI	49017
	S M 43 Hwy	10210 S M 43 Hwy	Delton MI	49046
	, N Uldriks Dr	, 14645 N Uldriks Dr	Battle Cree MI	49017
	Manning Lake Rd	14820 Manning Lake Rd	Battle Cree MI	49017
	Lepper Rd	15700 Lepper Rd	Hickory Co MI	49060
	Lepper Rd	15815 Lepper Rd	Hickory Co MI	49060
	S M 43 Hwy	8611 S M 43 Hwy	, Delton MI	49046
	Osborne Rd	, 6641 Osborne Rd	Delton MI	49046
6523	Osborne Rd	6523 Osborne Rd	Delton MI	49046
4411	Harrington Rd	4411 Harrington Rd	Delton MI	49046
	Osborne Rd	6624 Osborne Rd	Delton MI	49046
7791	S Crooked Lake Dr	7791 S Crooked Lake Dr	Delton MI	49046
10971	Shelp Lake Dr	10971 Shelp Lake Dr	Delton MI	49046
10983	Shelp Lake Dr	10983 Shelp Lake Dr	Delton MI	49046
10995	Shelp Lake Dr	10995 Shelp Lake Dr	Delton MI	49046
14850	Manning Lake Rd	14850 Manning Lake Rd	Battle Cree MI	49017
11017	Shelp Lake Dr	11017 Shelp Lake Dr	Delton MI	49046
10175	Lindsey Rd	10175 Lindsey Rd	Delton MI	49046
10215	Lindsey Rd	10215 Lindsey Rd	Delton MI	49046
14665	N Uldriks Dr	14665 N Uldriks Dr	Battle Cree MI	49017
5041	Walnut Rdg	5041 Walnut Rdg	Battle Cree MI	49017
5011	Walnut Rdg	5011 Walnut Rdg	Battle Cree MI	49017
5042	Walnut Rdg	5042 Walnut Rdg	Battle Cree MI	49017
9800	Kingsbury Rd	9800 Kingsbury Rd	Delton MI	49046
9644	Kingsbury Rd	9644 Kingsbury Rd	Delton MI	49046
10967	Shelp Lake Dr	10967 Shelp Lake Dr	Delton MI	49046
10612	S Parker Rd	10612 S Parker Rd	Delton MI	49046
4399	Harrington Rd	4399 Harrington Rd	Delton MI	49046
7689	Perry Dr	7689 Perry Dr	Delton MI	49046
1035	W Hickory Rd	1035 W Hickory Rd	Battle Cree MI	49017
6687	Osborne Rd	6687 Osborne Rd	Delton MI	49046
425	Harrington Rd	425 Harrington Rd	Delton MI	49046
14771	N Uldriks Dr	14771 N Uldriks Dr	Battle Cree MI	49017
875	W Beach Dr	875 W Beach Dr	Battle Cree MI	49017
411	Harrington Rd	411 Harrington Rd	Delton MI	49046
10074	S M 43 Hwy	10074 S M 43 Hwy	Delton MI	49046
10941	Pine Lake Rd	10941 Pine Lake Rd	Delton MI	49046
788	W Hickory Rd	788 W Hickory Rd	Battle Cree MI	49017
	S M 43 Hwy	8651 S M 43 Hwy	Delton MI	49046
	W Shore Dr	2908 W Shore Dr	Battle Cree MI	49017
	Walnut Rdg	4921 Walnut Rdg	Battle Cree MI	49017
4941	Walnut Rdg	4941 Walnut Rdg	Battle Cree MI	49017

4961	Walnut Rdg	4961 Walnut Rdg	Battle Cree MI	49017
4981	Walnut Rdg	4981 Walnut Rdg	Battle Cree MI	49017
6753	Osborne Rd	6753 Osborne Rd	Delton MI	49046
3109	W Shore Dr	3109 W Shore Dr	Battle Cree MI	49017
3133	W Shore Dr	3133 W Shore Dr	Battle Cree MI	49017
3153	W Shore Dr	3153 W Shore Dr	Battle Cree MI	49017
3163	W Shore Dr	3163 W Shore Dr	Battle Cree MI	49017
3168	W Shore Dr	3168 W Shore Dr	Battle Cree MI	49017
3176	W Shore Dr	3176 W Shore Dr	Battle Cree MI	49017
7635	Perry Dr	7635 Perry Dr	Delton MI	49046
	S M 43 Hwy	10120 S M 43 Hwy	Delton MI	49046
	S M 43 Hwy	10082 S M 43 Hwy	Delton MI	49046
	Herbert Rd	6277 Herbert Rd	Delton MI	49046
	Sheffield Rd	1335 Sheffield Rd	Hickory Co MI	49060
	Harrington Rd	4301 Harrington Rd	Delton MI	49046
	Pine Lake Rd	10963 Pine Lake Rd	Delton MI	49046
	Arbor Dr	13403 Arbor Dr	Delton MI	49046
	Arbor Dr	13377 Arbor Dr	Delton MI	
			Battle Cree MI	49046
	Manning Lake Rd	14601 Manning Lake Rd		49017
	W Shore Dr	2943 W Shore Dr	Battle Cree MI	49017
	W Shore Dr	2953 W Shore Dr	Battle Cree MI	49017
	W Shore Dr	3052 W Shore Dr	Battle Cree MI	49017
	W Shore Dr	3093 W Shore Dr	Battle Cree MI	49017
	Osborne Rd	6746 Osborne Rd	Delton MI	49046
	Wall Lake Dr	1111 Wall Lake Dr	Delton MI	49046
	2nd St	5037 2nd St	Delton MI	49046
	Wall Lake Dr	1115 Wall Lake Dr	Delton MI	49046
479	Harrington Rd	479 Harrington Rd	Delton MI	49046
485	Harrington Rd	485 Harrington Rd	Delton MI	49046
503	Harrington Rd	503 Harrington Rd	Delton MI	49046
3229	W Shore Dr	3229 W Shore Dr	Battle Cree MI	49017
4891	Walnut Rdg	4891 Walnut Rdg	Battle Cree MI	49017
4871	Walnut Rdg	4871 Walnut Rdg	Battle Cree MI	49017
4831	Walnut Rdg	4831 Walnut Rdg	Battle Cree MI	49017
10929	Pine Lake Rd	10929 Pine Lake Rd	Delton MI	49046
11001	Pine Lake Rd	11001 Pine Lake Rd	Delton MI	49046
15100	Manning Lake Rd	15100 Manning Lake Rd	Battle Cree MI	49017
7893	Oak Dr	7893 Oak Dr	Delton MI	49046
15501	Lang Rd	15501 Lang Rd	Hickory Col MI	49060
509	Harrington Rd	509 Harrington Rd	Delton MI	49046
3121	W Shore Dr	3121 W Shore Dr	Battle Cree MI	49017
3131	W Shore Dr	3131 W Shore Dr	Battle Cree MI	49017
	W Shore Dr	3151 W Shore Dr	Battle Cree MI	49017
	W Shore Dr	3172 W Shore Dr	Battle Cree MI	49017
	W Shore Dr	3211 W Shore Dr	Battle Cree MI	49017
	Lang Rd	15521 Lang Rd	Hickory Co MI	49060
	Sheffield Rd	3829 Sheffield Rd	Hickory Co MI	49060
5025				12000

5048	3rd St	5048 3rd St	Delton	MI	49046
9574	Cherrylane	9574 Cherrylane	Delton	MI	49046
9572	Cherrylane	9572 Cherrylane	Delton	MI	49046
5029	2nd St	5029 2nd St	Delton	MI	49046
5033	2nd St	5033 2nd St	Delton	MI	49046
597	Harrington Rd	597 Harrington Rd	Delton	MI	49046
445	Harrington Rd	445 Harrington Rd	Delton	MI	49046
	Harrington Rd	467 Harrington Rd	Delton	MI	49046
	Harrington Rd	417 Harrington Rd	Delton	MI	49046
	S M 43 Hwy	10036 S M 43 Hwy	Delton	MI	49046
	, S M 43 Hwy	, 10110 S M 43 Hwy	Delton	MI	49046
	Upson Dr	10056 Upson Dr	Delton	MI	49046
	Pine Lake Rd	11121 Pine Lake Rd	Delton	MI	49046
	W Hickory Rd	702 W Hickory Rd	Battle Cree		49017
	W Hickory Rd	708 W Hickory Rd	Battle Cree		49017
	W Shore Dr	2821 W Shore Dr	Battle Cree		49017
	W Shore Dr	2841 W Shore Dr	Battle Cree		49017
	W Shore Dr	2851 W Shore Dr	Battle Cree		49017
	Lakeshore Dr	11082 Lakeshore Dr		MI	49046
	Lakeshore Dr	11043 Lakeshore Dr	Delton	MI	49046
			Delton	MI	49046
	Upson Dr	11081 Upson Dr			
	Kingsbury Rd	9910 Kingsbury Rd	Delton	MI	49046
	Upson Dr	10027 Upson Dr	Delton	MI	49046
	Upson Dr	11063 Upson Dr	Delton	MI	49046
	Upson Dr	10051 Upson Dr	Delton	MI	49046
	Upson Dr	10045 Upson Dr	Delton	MI	49046
	W Shore Dr	3239 W Shore Dr	Battle Cree		49017
	W Shore Dr	3241 W Shore Dr	Battle Cree		49017
	W Shore Dr	3251 W Shore Dr	Battle Cree		49017
	Brooklodge Rd	15999 Brooklodge Rd	Hickory Co		49060
	W Shore Dr	3281 W Shore Dr	Battle Cree		49017
	W Shore Dr	3301 W Shore Dr	Battle Cree		49017
3311	W Shore Dr	3311 W Shore Dr	Battle Cree	MI	49017
13423	Castlebury Ln	13423 Castlebury Ln	Delton	MI	49046
6815	Osborne Rd	6815 Osborne Rd	Delton	MI	49046
13342	Castlebury Ln	13342 Castlebury Ln	Delton	MI	49046
6816	Osborne Rd	6816 Osborne Rd	Delton	MI	49046
4291	Indian Isle St	4291 Indian Isle St	Battle Cree	MI	49017
504	Harrington Rd	504 Harrington Rd	Delton	MI	49046
14717	Manning Lake Rd	14717 Manning Lake Rd	Battle Cree	MI	49017
3331	W Shore Dr	3331 W Shore Dr	Battle Cree	MI	49017
3341	W Shore Dr	3341 W Shore Dr	Battle Cree	MI	49017
3351	W Shore Dr	3351 W Shore Dr	Battle Cree	MI	49017
3361	W Shore Dr	3361 W Shore Dr	Battle Cree	MI	49017
3381	W Shore Dr	3381 W Shore Dr	Battle Cree	MI	49017
15990	Lepper Rd	15990 Lepper Rd	Hickory Co	MI	49060
	Pine Lake Rd	6387 Pine Lake Rd	, Delton	MI	49046

14981	N Uldriks Dr	14981 N Uldriks Dr	Battle Cree	MI	49017
7531	S Crooked Lake Dr	7531 S Crooked Lake Dr	Delton	MI	49046
7568	S Crooked Lake Dr	7568 S Crooked Lake Dr	Delton	MI	49046
7525	S Crooked Lake Dr	7525 S Crooked Lake Dr	Delton	MI	49046
7576	S Crooked Lake Dr	7576 S Crooked Lake Dr	Delton	MI	49046
7546	S Crooked Lake Dr	7546 S Crooked Lake Dr	Delton	MI	49046
7696	Osborne Rd	7696 Osborne Rd	Delton	MI	49046
5030	1st St	5030 1st St	Delton	MI	49046
5036	1st St	5036 1st St	Delton	MI	49046
5008	1st St	5008 1st St	Delton	MI	49046
	1st St	5010 1st St			49046
	Wall Lake Dr	1031 Wall Lake Dr		МІ	49046
	Beechwood Dr	733 Beechwood Dr			49046
	Osborne Rd	6833 Osborne Rd		МІ	49046
	Harrington Rd	569 Harrington Rd			49046
	Osborne Rd	6858 Osborne Rd			49046
	Harrington Rd	589 Harrington Rd			49046
	Harrington Rd	537 Harrington Rd			49046
	S M 43 Hwy	10090 S M 43 Hwy		MI	49046
	Indian Isle St	4253 Indian Isle St	Battle Cree		49017
	Oak Dr	11132 Oak Dr		MI	49046
	Kingswood Dr	13390 Kingswood Dr			49046
	W Shore Dr	3431 W Shore Dr	Battle Cree		
	W Shore Dr	3445 W Shore Dr	Battle Cree		49017
					49017
	W Shore Dr	3461 W Shore Dr	Battle Cree		49017
	W Shore Dr	3485 W Shore Dr	Battle Cree		49017
	W Shore Dr	3411 W Shore Dr	Battle Cree		49017
	Indian Isle St	4531 Indian Isle St	Battle Cree		49017
	Indian Isle St	4541 Indian Isle St	Battle Cree		49017
	Indian Isle St	4561 Indian Isle St	Battle Cree		49017
	S M 43 Hwy	12225 S M 43 Hwy	Delton		49046
	S M 43 Hwy	12201 S M 43 Hwy		MI	49046
	Kingswood Dr	13099 Kingswood Dr		MI	49046
	Kingswood Dr	13121 Kingswood Dr		MI	49046
	Kingswood Dr	13065 Kingswood Dr			49046
	Oak Dr	11493 Oak Dr		MI	49046
	Hughes Dr	7613 Hughes Dr		MI	49046
7627	Oak Dr	7627 Oak Dr	Delton	MI	49046
6857	Osborne Rd	6857 Osborne Rd	Delton	MI	49046
1003	Wall Lake Dr	1003 Wall Lake Dr	Delton	MI	49046
777	Beechwood Dr	777 Beechwood Dr	Delton	MI	49046
6431	Pine Lake Rd	6431 Pine Lake Rd	Delton	MI	49046
6449	Pine Lake Rd	6449 Pine Lake Rd	Delton	MI	49046
6499	Pine Lake Rd	6499 Pine Lake Rd	Delton	MI	49046
6711	Herbert Rd	6711 Herbert Rd	Delton	MI	49046
11395	Oak Dr	11395 Oak Dr	Delton	MI	49046
11369	Oak Dr	11369 Oak Dr	Delton	MI	49046

11361 Oak Dr	11361 Oak Dr	Delton MI	49046
11345 Oak Dr	11345 Oak Dr	Delton MI	49046
7634 Hughes Dr	7634 Hughes Dr	Delton MI	49046
-	-		
11437 Oak Dr	11437 Oak Dr	Delton MI	49046
11425 Oak Dr	11425 Oak Dr	Delton MI	49046
11415 Oak Dr	11415 Oak Dr	Delton MI	49046
3581 W Shore Dr	3581 W Shore Dr	Battle Cree MI	49017
11287 Oak Dr	11287 Oak Dr	Delton MI	49046
11265 Oak Dr	11265 Oak Dr	Delton MI	49046
4312 Indian Isle St	4312 Indian Isle St	Battle Cree MI	49017
4428 Indian Isle St	4428 Indian Isle St	Battle Cree MI	49017
4243 Indian Isle St	4243 Indian Isle St	Battle Cree MI	49017
11313 Oak Dr	11313 Oak Dr	Delton MI	49046
13896 Fineview Bluff Dr	13896 Fineview Bluff Dr	Battle Cree MI	49017
6919 Osborne Rd	6919 Osborne Rd	Delton MI	49046
6955 Osborne Rd	6955 Osborne Rd	Delton MI	49046
6946 Osborne Rd	6946 Osborne Rd	Delton MI	49046
3601 W Shore Dr	3601 W Shore Dr	Battle Cree MI	49017
13804 Fineview Bluff Dr	13804 Fineview Bluff Dr	Battle Cree MI	49017
11239 Oak Dr	11239 Oak Dr	Delton MI	49046
11223 Oak Dr	11223 Oak Dr	Delton MI	49046
4431 Indian Isle St	4431 Indian Isle St	Battle Cree MI	49017
4381 Indian Isle St	4381 Indian Isle St	Battle Cree MI	49017
4351 Indian Isle St	4351 Indian Isle St	Battle Cree MI	49017
4325 Indian Isle St	4325 Indian Isle St	Battle Cree MI	49017
6355 Pine Lake Rd	6355 Pine Lake Rd	Delton MI	49046
12711 S M 43 Hwy	12711 S M 43 Hwy	Delton MI	49046
1017 Wall Lake Dr	1017 Wall Lake Dr	Delton MI	49046
745 Beechwood Dr	745 Beechwood Dr	Delton MI	49046
1011 Wall Lake Dr	1011 Wall Lake Dr	Delton MI	49046
767 Beechwood Dr	767 Beechwood Dr	Delton MI	49046
769 Beechwood Dr	769 Beechwood Dr	Delton MI	49046
771 Beechwood Dr	771 Beechwood Dr	Delton MI	49046
5545 Osborne Rd	5545 Osborne Rd	Delton MI	49046
10118 S M 43 Hwy	10118 S M 43 Hwy	Delton MI	49046
13074 Arbor Dr	13074 Arbor Dr	Delton MI	49046
6862 Herbert Rd	6862 Herbert Rd	Delton MI	49046
11215 Oak Dr	11215 Oak Dr	Delton MI	49046
11197 Oak Dr	11197 Oak Dr	Delton MI	49046
11187 Oak Dr	11187 Oak Dr	Delton MI	49046
12150 Sprague Rd	12150 Sprague Rd	Delton MI	49046
415 W Hickory Rd	415 W Hickory Rd	Battle Cree MI	49017
324 W Leinaar Rd	324 W Leinaar Rd	Battle Cree MI	49017
499 W Hickory Rd	499 W Hickory Rd	Battle Cree MI	49017
12487 S M 43 Hwy	12487 S M 43 Hwy	Delton MI	49046
13858 Fineview Bluff Dr	13858 Fineview Bluff Dr	Battle Cree MI	49017
13816 Fineview Bluff Dr	13816 Fineview Bluff Dr	Battle Cree MI	49017

13830 Fineview Bluff Dr	13830 Fineview Bluff Dr	Battle Cree MI	49017
13844 Fineview Bluff Dr	13844 Fineview Bluff Dr	Battle Cree MI	49017
7456 S Crooked Lake Dr	7456 S Crooked Lake Dr	Delton MI	49017
4371 Indian Isle St	4371 Indian Isle St	Battle Cree MI	49040
6715 Herbert Rd	6715 Herbert Rd	Delton MI	49017
12250 Sprague Rd	12250 Sprague Rd	Delton MI	49046
1150 Sheffield Rd	1150 Sheffield Rd	Battle Cree MI	49040
7675 Hughes Dr 11181 Oak Dr	7675 Hughes Dr 11181 Oak Dr	Delton MI Delton MI	49046
7837 Oak Dr	7837 Oak Dr	Delton MI	49046
			49046
11169 Oak Dr 11159 Oak Dr	11169 Oak Dr 11159 Oak Dr	Delton MI Delton MI	49046
			49046
11149 Oak Dr	11149 Oak Dr		49046
11137 Oak Dr	11137 Oak Dr	Delton MI	49046
11125 Oak Dr	11125 Oak Dr	Delton MI	49046
6868 Herbert Rd	6868 Herbert Rd	Delton MI	49046
13283 Castlebury Ln	13283 Castlebury Ln	Delton MI	49046
1562 Luce Rd	1562 Luce Rd	Augusta MI	49012
15404 Baseline Rd	15404 Baseline Rd	Augusta MI	49012
433 W Hickory Rd	433 W Hickory Rd	Battle Cree MI	49017
421 W Hickory Rd	421 W Hickory Rd	Battle Cree MI	49017
441 W Hickory Rd	441 W Hickory Rd	Battle Cree MI	49017
13872 Fineview Bluff Dr	13872 Fineview Bluff Dr	Battle Cree MI	49017
13884 Fineview Bluff Dr	13884 Fineview Bluff Dr	Battle Cree MI	49017
15685 Lang Rd	15685 Lang Rd	Hickory Col MI	49060
399 W Hickory Rd	399 W Hickory Rd	Battle Cree MI	49017
12757 S M 43 Hwy	12757 S M 43 Hwy	Delton MI	49046
12733 S M 43 Hwy	12733 S M 43 Hwy	Delton MI	49046
12775 S M 43 Hwy	12775 S M 43 Hwy	Delton MI	49046
12793 S M 43 Hwy	12793 S M 43 Hwy	Delton MI	49046
1295 Baseline Rd	1295 Baseline Rd	Battle Cree MI	49017
381 W Hickory Rd	381 W Hickory Rd	Battle Cree MI	49017
13815 Hallock Rd	13815 Hallock Rd	Hickory Col MI	49060
7258 S Crooked Lake Dr	7258 S Crooked Lake Dr	Delton MI	49046
7262 S Crooked Lake Dr	7262 S Crooked Lake Dr	Delton MI	49046
171 W Hickory Rd	171 W Hickory Rd	Battle Cree MI	49017
6587 Pine Lake Rd	6587 Pine Lake Rd	Delton MI	49046
249 W Hickory Rd	249 W Hickory Rd	Battle Cree MI	49017
243 W Hickory Rd	243 W Hickory Rd	Battle Cree MI	49017
251 W Hickory Rd	251 W Hickory Rd	Battle Cree MI	49017
187 W Hickory Rd	187 W Hickory Rd	Battle Cree MI	49017
199 W Hickory Rd	199 W Hickory Rd	Battle Cree MI	49017
211 W Hickory Rd	211 W Hickory Rd	Battle Cree MI	49017
1265 Baseline Rd	1265 Baseline Rd	Battle Cree MI	49017
860 Sheffield Rd	860 Sheffield Rd	Battle Cree MI	49017
1128 Sheffield Rd	1128 Sheffield Rd	Battle Cree MI	49017
6650 Pine Lake Rd	6650 Pine Lake Rd	Delton MI	49046

7280	S Crooked Lake Dr	7280 S Crooked Lake Dr	Delton	MI	49046
339	W Hickory Rd	339 W Hickory Rd	Battle Cree	MI	49017
4600	E Orchard St	4600 E Orchard St	Delton	MI	49046
1077	Baseline Rd	1077 Baseline Rd	Battle Cree	MI	49017
219	W Hickory Rd	219 W Hickory Rd	Battle Cree	MI	49017
227	W Hickory Rd	227 W Hickory Rd	Battle Cree	MI	49017
235	W Hickory Rd	235 W Hickory Rd	Battle Cree	MI	49017
310	Sheffield Rd	310 Sheffield Rd	Battle Cree	MI	49017
6600	Herbert Rd	6600 Herbert Rd	Delton	MI	49046
257	W Hickory Rd	257 W Hickory Rd	Battle Cree	MI	49017
1175	Baseline Rd	1175 Baseline Rd	Battle Cree	MI	49017
6423	Stevens Rd	6423 Stevens Rd	Delton	MI	49046
7496	N Crooked Lake Dr	7496 N Crooked Lake Dr	Delton	MI	49046
7486	N Crooked Lake Dr	7486 N Crooked Lake Dr	Delton	MI	49046
7468	N Crooked Lake Dr	7468 N Crooked Lake Dr	Delton	MI	49046
263	W Hickory Rd	263 W Hickory Rd	Battle Cree	MI	49017
7438	N Crooked Lake Dr	7438 N Crooked Lake Dr	Delton	MI	49046
250	Sheffield Rd	250 Sheffield Rd	Battle Cree	MI	49017
10860	Ford Rd	10860 Ford Rd	Plainwell	MI	49080
4555	E Orchard St	4555 E Orchard St	Delton	MI	49046
6335	Stevens Rd	6335 Stevens Rd	Delton	MI	49046
901	Baseline Rd	901 Baseline Rd	Battle Cree	MI	49017
6	Lake 21	6 Lake 21	Delton	MI	49046
1400	Luce Rd	1400 Luce Rd	Augusta	MI	49012
825	Baseline Rd	825 Baseline Rd	Battle Cree	MI	49017
863	Baseline Rd	863 Baseline Rd	Battle Cree	MI	49017
492	Sheffield Rd	492 Sheffield Rd	Battle Cree	MI	49017
7015	Delton Rd	7015 Delton Rd	Delton	MI	49046
5400	Waldorf Rd	5400 Waldorf Rd	Delton	MI	49046
5390	Waldorf Rd	5390 Waldorf Rd	Delton	MI	49046
6900	Pine Lake Rd	6900 Pine Lake Rd	Delton	MI	49046
92	Sheffield Rd	92 Sheffield Rd	Battle Cree	MI	49017
452	Sheffield Rd	452 Sheffield Rd	Battle Cree	MI	49017
6505	Osborne Rd	6505 Osborne Rd	Delton	MI	49046
6575	Stevens Rd	6575 Stevens Rd	Delton	MI	49046
8871	S M 43 Hwy	8871 S M 43 Hwy	Delton	MI	49046
410	Sheffield Rd	410 Sheffield Rd	Battle Cree	MI	49017
5364	Waldorf Rd	5364 Waldorf Rd	Delton	MI	49046
485	Baseline Rd	485 Baseline Rd	Battle Cree	MI	49017
5380	Waldorf Rd	5380 Waldorf Rd	Delton	MI	49046
10844	N 47th St	10844 N 47th St	Augusta	MI	49012
5352	Waldorf Rd	5352 Waldorf Rd	Delton	MI	49046
5302	Waldorf Rd	5302 Waldorf Rd	Delton	MI	49046
5298	Waldorf Rd	5298 Waldorf Rd	Delton	MI	49046
532	Sheffield Rd	532 Sheffield Rd	Battle Cree	MI	49017
6950	Pine Lake Rd	6950 Pine Lake Rd	Delton	MI	49046
7515	Pine Lake Rd	7515 Pine Lake Rd	Delton	MI	49046

7280 (	Osborne Rd	7280 Osborne Rd	Delton MI	49046
14413 A	Acorn Cove Trl	14413 Acorn Cove Trl	Battle Cree MI	49017
14427 A	Acorn Cove Trl	14427 Acorn Cove Trl	Battle Cree MI	49017
7431 F	Pine Lake Rd	7431 Pine Lake Rd	Delton MI	49046
7473 F	Pine Lake Rd	7473 Pine Lake Rd	Delton MI	49046
12203 9	S M 43 Hwy	12203 S M 43 Hwy	Delton MI	49046
	Sheffield Rd	1630 Sheffield Rd	Hickory Co MI	49060
		650 Lake 21	Delton MI	49046
	5 M 43 Hwy	12065 S M 43 Hwy	Delton MI	49046
	,	5364 E Orchard St	Delton MI	49046
		10620 N 47th St	Augusta MI	49012
			Delton MI	
	•	12173 S M 43 Hwy		49046
		555 Baseline Rd	Battle Cree MI	49017
	S Norris Rd	10991 S Norris Rd	Delton MI	49046
		1325 Baseline Rd	Battle Cree MI	49017
	Houvener Rd	10580 Houvener Rd	Delton MI	49046
1612 l	Luce Rd	1612 Luce Rd	Augusta MI	49012
5083 \	W Cloverdale Rd	5083 W Cloverdale Rd	Delton MI	49046
10499	N 48th St	10499 N 48th St	Augusta MI	49012
2811 \	W Shore Dr	2811 W Shore Dr	Battle Cree MI	49017
2905 \	W Shore Dr	2905 W Shore Dr	Battle Cree MI	49017
2906 \	W Shore Dr	2906 W Shore Dr	Battle Cree MI	49017
4753 \	Walnut Rdg	4753 Walnut Rdg	Battle Cree MI	49017
4751 \	Walnut Rdg	4751 Walnut Rdg	Battle Cree MI	49017
	-	4749 Walnut Rdg	Battle Cree MI	49017
11096 (	-	11096 Oak Dr	Delton MI	49046
		732 Sheffield Rd	Battle Cree MI	49017
		13826 Banfield Rd	Battle Cree MI	49017
		7588 S Crooked Lake Dr	Delton MI	49046
		7571 S Crooked Lake Dr	Delton MI	49046
		1631 Sheffield Rd		
			Hickory Col MI	49060
	Pine Lake Rd	10779 Pine Lake Rd	Delton MI	49046
	S Parker Rd	10790 S Parker Rd	Delton MI	49046
	-	5311 Walnut Rdg	Battle Cree MI	49017
	•	5281 Walnut Rdg	Battle Cree MI	49017
		7452 S Crooked Lake Dr	Delton MI	49046
7436 9	S Crooked Lake Dr	7436 S Crooked Lake Dr	Delton MI	49046
11113 (	Oak Dr	11113 Oak Dr	Delton MI	49046
11095 (	Oak Dr	11095 Oak Dr	Delton MI	49046
10698 9	S Parker Rd	10698 S Parker Rd	Delton MI	49046
3531 \	W Shore Dr	3531 W Shore Dr	Battle Cree MI	49017
7655 \$	S Crooked Lake Dr	7655 S Crooked Lake Dr	Delton MI	49046
3021 \	W Shore Dr	3021 W Shore Dr	Battle Cree MI	49017
3051 \	W Shore Dr	3051 W Shore Dr	Battle Cree MI	49017
3071 \	W Shore Dr	3071 W Shore Dr	Battle Cree MI	49017
		3385 W Shore Dr	Battle Cree MI	49017
		3391 W Shore Dr	Battle Cree MI	49017

10750 S Parker Rd	10750 S Parker Rd	Delton	MI	49046
7248 S Crooked Lake Dr	7248 S Crooked Lake Dr	Delton	MI	49046
7501 S Crooked Lake Dr	7501 S Crooked Lake Dr	Delton	MI	49046
7491 S Crooked Lake Dr	7491 S Crooked Lake Dr	Delton	MI	49046
7473 S Crooked Lake Dr	7473 S Crooked Lake Dr	Delton	MI	49046
7512 S Crooked Lake Dr	7512 S Crooked Lake Dr	Delton	MI	49046
7494 S Crooked Lake Dr	7494 S Crooked Lake Dr	Delton	MI	49046
7476 S Crooked Lake Dr	7476 S Crooked Lake Dr	Delton	MI	49046
7468 S Crooked Lake Dr	7468 S Crooked Lake Dr	Delton	MI	49046
7460 S Crooked Lake Dr	7460 S Crooked Lake Dr	Delton	MI	49046
1055 Baseline Rd	1055 Baseline Rd	Battle Cre	e MI	49017
327 N Grove St	327 N Grove St	Delton	MI	49046

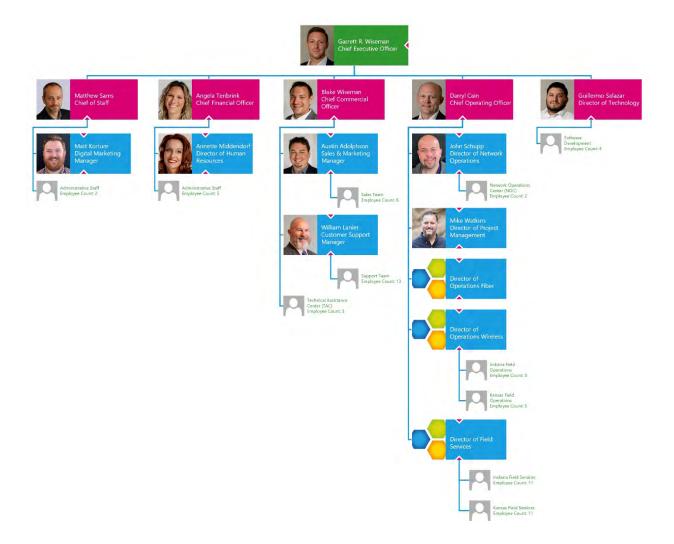


#### **Attachment 4: Match Commitment Evidence**

The Mercury Connects Delton project cost is \$2,984,000.00, with matching funds from Mercury Wireless of \$626,640.00, and a request for grant funds of \$2,357,360.00. Mercury Wireless will provide its matching funds with cash generated from Mercury Wireless Inc. and subsidiaries' internal revenues, as demonstrated in our 2019 audited financials included with Attachment\_7. Additionally, the Company will utilize internal revenues from anticipated market capture as demonstrated in Five Year Financial Forecast. These internal funds along with the grant proceeds from the Connecting Michigan Communities Grant Program will allow Mercury to meet its build out obligations and deliver broadband Internet to rural communities in the project area.



# **Attachment 5: Applicant Organizational Chart**





# PROFILE

Garrett Wiseman founded Mercury Wireless in 2007 and is also the CEO of Mercury Networks, LLC, a company that builds, designs, and manufactures 4G Broadband radios used by the corporation and in nearly 250 other networks worldwide. In addition to his regular duties, Garrett remains active in the development of Ceres, working with Engineering and Software Development teams to build a robust and dynamic OSS. Before Mercury, Garrett served in the United States Air Force. Garrett studied engineering at Washburn University and graduated from the Community College of The Air Force as an honor graduate while also receiving a distinguished graduate award.

# CONTACT

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WEBSITE: <u>https://mercurybroadband.com/</u>

EMAIL: garrett.wiseman@mercurybroadband. com

# GARRETT WISEMAN

# WORK EXPERIENCE

Chief Executive Officer

Mercury Wireless, Inc. – Kansas City, Missouri 2007–Present

- Provide inspired leadership company-wide
- High-level decisions about policy and strategy
- Develop and implement strategic plans
- Develop the Company's culture and overall company vision
- Oversee the Company's fiscal activity including budgeting, reporting, and auditing
- Work with stakeholders, chief commercial officer, chief financial officer, and chief of staff
- Work with the executive board to determine a plan for short and long-term goals
- Build alliances and partnerships with other organizations
- Oversee day-to-day company operations

Staff Sergeant, Avionics Guidance Control Systems United States Air Force – Topeka, Kansas 2006–2012

# KEY SKILLS

- Strategic Planning and Management
- Telecommunications
- Operations Management
- Software Development & Engineering
- Network Engineering
- Network Security
- Executive Leadership
- Process Improvement



#### PROFILE

Senior-level leader with proven experience in leading operations, executing company vision, and developing business strategy. Brings a proven record of leading and integrating complex geographically diverse products to new heights of revenue and market success. Effective negotiator and impactful mentor to results driven management team.

# CONTACT

PHONE: 785-383-8491

EMAIL: Mercury.blake@gmail.com

# BLAKE E. WISEMAN

Chief Commercial Officer

# CAREER HIGHLIGHTS

Increased Company valuation by over 6 times in 18 months on the executive team

Increased Company's monthly sales volume by 45% and ARPU by 26% over 18 months

Evolved Sales by creating a KPI driven culture focused on company ROI and ARPU

Successfully negotiated numerous agreements with partner organizations, vendors, and M&A transactions.

Recruited and oversaw team to complete ground up design and build on multiple company initiatives including hosted Wi-Fi service, LTE EPC and RAN with Airspan and Samsung

Created multiple new company departments including department needs, position descriptions, budget, training, employee guidelines, benchmarks, and recruited management and executive teams

Designed end-to-end on multiple company product lines, residential and business sales initiatives, and to-market strategies

Created internal support structures and Customer SLA's for new and existing products and platforms

Engineered, designed, and trained business standard practices and Operating procedures

# WORK EXPERIENCE

#### MERCURY WIRELESS INC. CHIEF COMMERCIAL OFFICER 2019 – Current

Invented Commercialization strategy to steer brand, improve customer acquisition, and grow financial success

Introduced cross-selling opportunities and new products at a "customer – company" competitive price. Created value for new markets previously untapped including federal and state funded clients and businesses. Cultivated marketing strategy towards client demographics and new business clients. Increased Company's monthly sales volume by 45% and increased ARPU by 26%.

Designed and cemented competitive edge

Created a carrier grade LTE network with a low cost roll out model and a reproduceable blueprint to scale at any size. The model includes clear materials budget, supplementary costs and components, business priorities, and sales opportunities targeting customer demographics and maximizing ROI.

Recruited and Mentored high-producing management team Responsible for recruiting, training, and ongoing mentoring of management team across diverse responsibilities. Catalyzed immediate positive culture changes and company growth.

Implemented team disciplines and KPIs to track and reward sales performance and customer retention

Developed new sales models and strategy to realign the sales team goal with company goals and instilled a Customer-Centric philosophy from top-down.

Member of the executive team increasing company value by 6 times in 18 months

MERCURY WIRELESS KANSAS GENERAL MANAGER 2014 - 2019

MERCURY WIRELESS KANSAS OPERATIONS MANAGER 2010 - 2014

#### **EDUCATION**

Washburn University 2007 - 2008

Allen County Community College 2006 – 2007

# Angela Marie Tenbrink, C.P.A., M.A.c.c. Mercury Broadband's Chief Financial Officer

angela.tenbrink@mercurybroadband.com

# PROFESSIONAL PROFILE:

Highly effective Accounting and Finance Leader with a background in public accounting and telecommunications. Brings qualities of integrity, reliability, and enthusiasm to teams. Pro-active and results-oriented with diverse background from years spent on audit engagements specializing in privately-held construction companies and non-profit organizations.

# SKILLS & ACCOMPLISHMENTS:

- Certified public accountant since June 2013 with current license to practice.
- Proficient in Microsoft and multiple accounting software applications.
- Led accounting software conversion for 5 consolidated entities migrating from QuickBooks to Mid America Computer Company.
- Developed and implemented internal controls and processes for accounts receivable and accounts payable, leading to an almost 50% reduction in outstanding receivables and improved workflows.
- Created a monthly closeout process where financials were created and published internally and externally.
- Implemented real-time inventory solution for purchasing and tracking of inventory and capital equipment, centralized the purchasing function, and increased efficiencies and economies of scale.
- Led conversion from ADP Run platform to ADP Workforce Now, creating a foundation to grow and scale the workforce under a centralized platform, establishing a standardized employee experience to access internal information and share data, merging divisional offices across Kansas, Missouri, and Indiana.

# **EDUCATION:**

Master of Accounting, Tax – University of Kansas – Lawrence, KS August 2011 – May 2012

Graduate Accounting Coursework – Oklahoma State University – Stillwater, Oklahoma August 2010 – December 2010

Bachelor of Business Administration, Accounting - Washburn University – Topeka, KS August 2006 – May 2010, Magna Cum Laude

# EXPERIENCE:

February 2019 -	Chief Financial Officer, Mercury Wireless, Inc.			
Current	Overall authority for financial reporting, strategic planning, and financial operations. Responsible for audit coordination, taxes, budget preparation, and administration. Facilitates treasury management and banking relationships. Oversees all payroll, human resource functions, and benefits administration.			
November 2015	Financial Controller, Mercury Wireless, Inc.			
– February 2019	Recruited to control accounting and finance operations, manage accounting records, forecast revenue and expenditures, manage annual audit, establish internal controls, treasury			

management, and payroll.

# October 2012 - Auditor, CBIZ MHM, LLC

November 2015 Performed audits, review and other attest procedures for companies, specializing in non-profit entities and privately-held construction companies, led planning meetings for engagements, selected to be part of the recruiting team and mentor program for new hires, and also worked with the tax department on tax and other non-attest engagements.

# January 2011 - Intern, CBIZ MHM, LLC

May 2011 Worked in the Professional Associate Development department, assisted in audits, prepared financial statements, and completed individual and business tax returns.

#### August 2010 - Graduate Teaching Assistant, Oklahoma State University

December 2010 Proctored examinations, graded papers, and worked closely with assigned faculty member gaining instructional skills and an increased understanding of the discipline.

Summer 2009 Consultant, *Oishi Company* through University transformational experience international business trip – Wuhan, China

Researched American business methods vs. Chinese business methods, traveled to China, developed marketing and distribution strategies for Oishi Company, and created sustainable international relationships.

#### Summer 2008 Intern, Viterra through Student Work Abroad Program – Regina, Saskatchewan

Assisted in the re-development of a new cash flow model, reported intercompany balances for month-end purposes, performed basic financial analysis, and served as an invoicing clerk and commodity accountant.

# Summer 2008 Teacher, Sandy Bank School through University transformational experience service trip – Treasure Beach, Jamaica

Gained international experience teaching children and developed a deeper understanding of international business, teaching, and tourism.

# LEADERSHIP, HONORS & ACTIVITIES:

٠	American Institute of Certified Public	٠	MIAA all-conference honorable mention
	Accounts (AICPA)		team 2007 & 2009
•	President's Honor Roll 2008-2010	٠	Beta Gamma Sigma
٠	Dean's List 2007-2010	•	Beta Alpha Psi
٠	WU President's Academic Scholar 2006-	٠	Captain and four-year member, Washburn
	2010		University Lady Blues soccer team
٠	Dale Marcoux Leadership Scholar 2007-	٠	Junior Achievement volunteer teacher

- Dale Marcoux Leadership Scholar 2007-2010
- MIAA Commissioner's Academic Honor Roll 2007-2009

- Prince of Peace Preschool volunteer
- Girls 6U soccer coach

## **ANNETTE MIDDENDORF**

4300 SW Cambridge Avenue • Topeka, KS 66610 • 🕾 (785) 217-7320 • 🖂 dorf8989@gmail.com

### **OPERATIONS MANAGER / LEADERSHIP / BUSINESS MANAGEMENT**

Focused and results-driven professional with exemplary qualifications and experience to oversee all day-to-day business operations. Skilled at leading cross-functional departments and teams and planning and executing strategic initiatives, programs, and projects. Self-motivated and eager to contribute diverse talents toward collaborating with a growth-oriented company to deliver operational improvements and to achieve business and financial goals. Use well-developed interpersonal skills to build consensus and relationships with customers, staff, and other stakeholders.

### SUMMARY OF QUALIFICATIONS

- > High-energy and accountable individual who excels in challenging, demanding, and competitive environments recognized for high ethical standards, professionalism, integrity, and exemplary relationship building skills.
- > Skilled at building positive relations and trust with all team members, establishing collaborative and cohesive partnerships, and increasing morale and performance to achieve aggressive business and productivity goals.
- > Seasoned leadership skills to effectively align strategy with business operations, manage large and multi-faceted projects, initiate and drive change, and improve processes to enhance performance and bottom-line results.

Operations/Process Improvement

Sales and Business Development

Project Management/Facilitation

Staff Management/Development

### AREAS OF STRENGTH

- Operations/Business Leadership
- P&L/Budget/Financial Oversight
- Resource Planning / Allocation
- Leadership/Mentoring/Coaching

### **PROFESSIONAL EXPERIENCE**

### Area Manager, Schwan's Home Services, Topeka, KS

2016 – Present Held directly responsible for demonstrating excellent communication, problem solving, and leadership skills while driving and maintaining a high level of revenue growth, operational efficiency, and customer satisfaction. Provide day-to-day oversight for all sales activities within the area including hiring, training, coaching, motivating, and managing performance for 12 route sales representatives as well as an assistant manager and warehouse manager.

- Manage strategic/tactical business activities to identify, capture, and help sustain business expansion and growth, improve customer and business relationships, and effectively utilize assets and resources to improve results.
- Maintain open communication with sales team to reinforce sales plans and goals, ensure performance meets or exceeds expectations, and provide positive, constructive, and timely feedback to motivate and coach staff.
- Proactively develop and manage account base with the goal of consistently maximizing and capitalizing on all sales and business development opportunities as well as increasing customer satisfaction, retention, and loyalty.
- Support company sales, service, and business goals, work well in a multi-tasking environment, ensure policies and procedures are followed, and use strong management skills to facilitate employee satisfaction/retention.
- Lead in a manner that inspires confidence, fosters performance excellence, and generates energy and personal commitment among sales team and management to the overall mission and strategies of the organization.
- Review and analyze key performance indicators, financial reports, operating statements, budgets, and expenses to assess the achievement of objectives and to identify and capitalize on opportunities to improve operations.
- Recognized for results including exceeding 2017 goal by 10% and currently on pace for 132% to goal in 2018. Current NPS score is 86%, average new customers is 3.2/week, and buying goal is 23 (company average is 21).

- Analyzing/Resolving Problems
- Strategic Planning and Analysis
- Improving Performance/Results
- Customer / Employee Relations

### **PROFESSIONAL EXPERIENCE** (CONTINUED)

#### Store Manager, Cox Communications, Topeka, KS

2011 - 2016

Leveraged excellent communication skills and leadership abilities while overseeing store activities to drive sales/ revenue growth and ensure a high level of productivity, efficiency, and customer service. Managed day-to-day store operations for two locations including sales, customer service, inventory, financial, back office, and monthly audits. Developed and implemented strategies to improve financial, operational, and team performance results.

- Ensured the complete training, coaching, and development of a nine-person sales team, supported staffing and scheduling needs, established individual and team goals, handled performance reviews, and resolved issues.
- Clearly communicated and upheld corporate standards, objectives, strategic vision, and culture to ensure a deep understanding and commitment by management and staff to the company's overall mission and strategies.
- Collaborated with corporate management team on special business projects to help drive new business and to support the development and implementation of plans to achieve aggressive organizational goals/objectives.
- Conducted strategic planning and assessment of existing processes and procedures to determine opportunities for improvement. Contributed to company success via process improvements and effective team leadership.
- Upheld a positive image of the company while actively contributing to customer service objectives and quality standards by evaluating results, addressing needs, and analyzing/responding to customer and team feedback.
- Researched and chose new store location in collaboration with corporate management, appointed as one of 13 stores in the US to test launch of Cox Wireless phones, and successfully launched Going All Digital campaign.
- Achieved over 100% goal in 2013 and 2014 for revenue generating units, exceeded customer service goal of 60% with consistent ratings above 68%, and drove launch of Cox Home Security achieving monthly goals of 125%.

### Assistant Vice President (2009 – 2011), UMB Bank, Topeka, KS

2007 - 2011Direct accountability for applying strong leadership skills and in-depth banking, business, and industry knowledge while managing day-to-day operations. Held responsible for sales and business development initiatives, ensuring a high level of customer service/support, and maintaining compliance with regulations. Assessed and enhanced internal policies, processes, and procedures to improve sales and achieve targeted financial goals/objectives.

- Monitored, tracked, and analyzed bank performance and operations to ensure adherence to the highest levels of customer service, sales productivity, cost effectiveness, efficiency, competitiveness, and quality at all times.
- Oversaw hiring, staffing, and recruitment needs, trained, coached, and motivated five CSRs and two Personal Bankers, and managed a seven-person sales team to consistently meet/exceed monthly and yearly sales goals.
- Upheld a positive image of the bank while actively contributing to customer service objectives/goals and quality standards by evaluating results, addressing needs, and responding to customer and team member feedback.
- Leveraged exceptional organizational, time management, and multi-tasking skills with ability to prioritize tasks while utilizing strong interpersonal and communication skills to interact with internal and external customers.
- Quickly addressed customer needs and requests, resolved any issues or concerns in a timely manner, adhered to all customer service standards and procedures, and consistently delivered complete customer satisfaction.
- Recognized by management team with the 2010 Regional Award for greater deposit growth in company and multiple promotions to AVP from Banking Center Manager (2007 – 2009) and Operations Manager (2007).

### **EDUCATION**

Consumer Lending / Business Studies College Coursework, Washburn University, Topeka, KS Training: Principles of Banking, Financial/Banking Products, Sales, Leadership, Management, Supervising Computer: Microsoft Office Suite (Word/Excel/PowerPoint), Financial/Banking Systems, FleetWise, Reports

### Darryl E. Cain, M.B.A., P.E. 7406 Albervan Street Shawnee, Kansas 66216 Cell: 913-293-8120 darrylcain1@outlook.com

### **Executive Summary**

Senior-level operations leader and program manager with more than 25 years of experience leading operations, project management, business development, and engineering functions for private-sector companies and engineering consulting firms. Proven strategist who utilizes long range planning to create significant value for organizations and clients across multiple industries, including telecommunications, construction, transportation, government, water management, energy, and public utilities. Skilled tactical leader who has developed a strong foundation of functional skills and experience, including project management, process and performance management, client relations, risk management, and engineering design. A seasoned business partner who has leveraged his strong business acumen to develop businesses and create value for clients.

- P&L Responsibility
- Program Management
- Engineering Expertise
- Operations Management
- Leadership
- Strategic Planning
- Performance Management
- Process/Quality Management

### **Career Highlights**

- Business Development
- Client Relations
- Sales & Marketing
- Risk Management

### Leadership

- Initiated and developed internal marketing and business development function for engineering firm, including developing and implementing marketing strategy to identify and pursue new business opportunities. Results included a 50% increase in company RFP's and a 30% improvement in successful bids.
- Implemented organizational changes, employee development programs, and mentoring initiatives to improve workforce capacity and performance. Results included 65% increase in internal production, increased capacity, and dramatic improvements in product quality, and increased profitable revenue for the firm.

### **Operations Expertise**

• Implemented numerous process changes and cost reduction initiatives, including improving project management, administrative, budgeting, and scheduling processes that improved profitability by 40%, saved more than \$100k/year on project budgets, and reducing overtime costs by more than 50%.

### **Program Management**

• Led successful programs and projects for national and international clients across diverse industries, including leading design, project, and construction teams of up to 120 professionals and managing program budgets of more than \$200 million.

### **Business Acumen**

• Leveraged broad business acumen, including foundation of strategy development, operations, finance, client relations, business development, human resources, and employee development skills and experience to grow profitability and value of engineering firms and clients.

### **Professional Experience**

### Mercury Broadband - Chief Operating Officer, Kansas City, Missouri

• Actively engaged in managing the Project Management, Network Design, Field Services and Tower Operations Departments in building, maintaining and installing wireless internet services to the communities we serve. Working in tandem with the Executive Management team to build and foster a strong, profitable company focused on employee retention and continual growth.

### WYCO Field Services - Market Manager, Overland Park, Kansas

• Actively engaged in managing a 5-member team in site acquisition, engineering and construction for T-Mobile, cell site deployment in KS, MO, and NE. Managing internal resources and external vendors to meet deployment timelines. Conduct site walks (rooftop and tower), negotiate leases, update trackers and entitlement complete projects. Regularly meet with client PMs to go over each site in weekly pre-deployment meetings.

#### Centerline Solutions – Market Manager, Overland Park, Kansas 2017-2019

• Actively engaged in managing a 6-member team in site acquisition and engineering for T-Mobile, Verizon and Sprint/Ericsson cell site deployment in KS, MO, AR and NE.

Actavo Engineering Services - Design Engineering Manager, Kansas City, Missouri 2016 - 2017

• Actively engaged in directing the 65 person FTTP Design team in Kansas City, MO, Austin, TX and Braselton, GA. Projects include AT&T Lightgig, Google Fiber and Virgin Media. Responsible for team management, proposal preparation and client satisfaction.

Infrastructure Engineers, Inc. – Senior Operations Director, Lenexa, Kansas	2015 - 2016
Black & Veatch – Program Engineering Manager – AT&T Turf, Overland Park, Kansas	2011 - 2015
Kruger Technologies, Inc. – Engineering Services Director, Lenexa, Kansas	2010 - 2011
Wilson & Company – Associate V.P./Operations Manager, Kansas City, Missouri	2004 - 2010
HDR Engineering, Inc. – Special/Movable Bridge Project Manager, Kansas City, Missouri	1999 – 2004
HNTB Corporation – Movable Bridge Engineer, Kansas City, Missouri	1995 - 1999

### **Education & Professional Development**

Rockhurst University, Kansas City, Missouri – Master of Business Administration (MBA)

University of Missouri, Rolla, Missouri – Master of Civil Engineering, Structural

University of Missouri, Rolla, Missouri – Bachelor of Civil Engineering

Registered as Professional Engineer: MO '99, KS '06, IN '20, NCEES Record Holder

### **Professional Development**

- Graduate of Dale Carnegie How to Win Friends and Influence People (4 Month Professional • Development and People Skills Course) and Graduate Teaching Assistant - 2002-2005
- American Council of Engineering Companies (ACEC)
- OSHA 10 Hour Training 2016
- NBIS 2 Week National Bridge Inspection Training Course
- Six Sigma Green Belt •
- Eagle Scout Troop 469 •

### 2019- Present

### 2019 - 2019

## Guillermo Salazar

Kansas City, Missouri, United States



gsalazar1407@gmail.com

linkedin.com/in/gmosalazar

### Summary

I love solving problems and figuring out modern solutions to achieve meaningful digital experiences for users. Having enjoyed over 10 years of experience in coding, collaborating and leading cross-functional teams I'm evolving and expanding my horizons both horizontally and vertically through knowledge and new challenges in management positions.

I'm always looking for answers to the quintessential question: what's next?

### Experience

### Director Of Technology

Mercury Broadband Apr 2020 - Present (7 months +) Overseeing the software development efforts as well as the non-telecommunications infrastructure.

### Engineering Manager

#### Mercury Broadband

May 2019 - Apr 2020 (1 year)

Heading the Engineering department, which supports CERES, user-facing native applications, database optimization, and administration, as well as working with cross-functional teams to improve workflows and experiences for our users.

Some of the projects include:

- . LAMP stacks
- . Network monitoring applications
- . Native mobile applications (Kotlin / Java / Swift)
- . Tower building and cost analysis.

### Senior Web Developer

### Mercury Broadband

Jul 2015 - May 2019 (3 years 11 months) Leading development of CERES. Mercury's home OSS, software rebuild from PHP 5 to PHP 7.1. Using Laravel and supporting 70 users and 7000 subscribers LAMP stack.

### Project Manager

wind2share Jan 2015 - Dec 2015 (1 year) Project Management, leading remote teams from Ukraine. Business 2 business platform developed with a Microsoft/ASP stack, AngularJs and mongoDB database.

#### 💮 Web Development

#### The Web Craftsmen

Feb 2014 - Dec 2015 (1 year 11 months) PHP Development, MongoDB, Wordpress customizations, JQuery plugins implementation, Server configuration, Google Maps API development, node.js and full stack developments.

#### Web Developer

GPanswers.com Jul 2011 - Jul 2012 (1 year 1 month) Joomla Development and Maintenance, Infusionsoft connections, mobile api's

GPanswers.com Has helped businesses succeed in their Active Directory and Group Policy deployments by teaching AD / GP skills using our custom training classes. Helped product companies by building marketing campaigns around their products.

#### PolicyPark Web Developer

PolicyPak Software, Inc. Jun 2011 - Jul 2012 (1 year 2 months) In charge of Joomla modifications, custom built plugins, components and modules. Complete site administration.

PolicyPak software provides Application State Management to applications on desktops, laptops, VDI, Citrix, VMware and more.

#### Web Developer

Klicsolutions Jun 2009 - Jun 2010 (1 year 1 month) Web Development, Joomla components, plugins and modules, Wordpress plugins, Drupal. Web services, CURL, REST, API's

### Education

#### Universidad Bicentenaria de Aragua

Bachelor's degree, Systems Engineering 2007 - 2013 Systems Engineer is a multidisciplinary professional, in charge of managing and improve teams with a detail oriented approach to tech solutions.

### **Licenses & Certifications**

e-business Application Developer Program / Application Development - IBM VEUNEFAMY007232



Mobile Apps Developer - Universidad Complutense de Madrid

### Skills

Web Development • PHP • Website Development • MySQL • Wordpress • HTML 5 • Android Development • Project Management • Internet • Public Speaking

### **Honors & Awards**



IBM Certified e-business developer. - IBM

## JOHN SCHUPP

NETWORK ARCHITECT

Overland Park KS 66212

913-223-2125

johnschupp@gmail.com

### OBJECTIVE

Network architect seeking expanded experience in carrier-grade network routing and switching.

### EDUCATION -

University of Kansas, BS in Public Administration

CCENT

CCNA

### EXPERIENCE

4/6/2020 - Present

Lead Network Engineer • Inceed/ISG Technology

- Network design engineer Jack Cooper network redesign.
- Network implementation engineer various customer projects for Routing/Switching, Security, and UC
- Tier 3 Network resource for customer troubleshooting
- Responsible for training of lower-level engineers.

#### 3/28/2016 - Present

Senior Network Engineer • AT&T/Perspecta

- Network design engineer for NGEN contract to DoD/US Navy
- Active secret clearance
- Senior Network Engineer (Design) uCAP project.
- Network Engineer (Design) uGTSE project
- Network Engineer (Design) cMPLS project.
- Network SME WANX Optimization engines
- Equipment examples from this network.
- ASR1000X, Catalyst 4500X, Catalyst 3850, and Catalyst 6500
- ISR G2 2900 and G3 4300

#### 5/20/2018 - 4/5/2020

Senior Network Engineer • Insight Global/H&R Block

- Network design engineer for EVDN FY 2020
- Design revision and implementation of SD-WAN utilizing Cloud-Genix
- Design/implementation engineer for SDN project.
- Implementation engineer emerald cloud upgrade project.
- Design engineer for VPLS cloud migration.
- Design engineer for WAN-DMZ 2.0 project.
- Implementation engineer for FY-2018 network design project.
- Equipment examples from this network
- Nexus 9k,7k,5k Catalyst 4500-9400, ASR 1000, ASR9900, ISR G3 4400

01/09/2012 - 03/26/2016

Network Engineer III • SureWest Communications

- On a team of 5 engineers responsible for the design and implementation of a 45,000-subscriber network
- Design and implementation of customer facing networks (L2VPN, DIA, VoIP). Using a variety of technologies (MPLS/VPLS, L2 tunneling, EFM, PWE3)
- Worked on design and implementation of dual-stack IPv6 deployment
- Core, aggregation (ASR 1k, 9k, 7600, TA5000) device software selection and upgrade.
- Operation and engineering of 2 10gbps edge routers along with support of routing (OSPF,BGP)
- Configuration and turnup of new network elements (Cisco ASR 9010, ASR1002/1006, 7609, 4510, 4948 Adtran TA5000, Zhone MXK).
- Designed and deployed SHDSL network in Kansas City. With service out of 5 POPs
- Tier 4 support of network of 42,000 residential subs and 3,800 corporate subs spanning the Kansas City metro area
- Training of NOC engineering and support group staff
- On call Support of Tier 4 issues 24/7/365

#### 07/30/2011 - 01/07/2012

Technical Analyst (Environment) • Tek Systems/State Farm Ins Co.

- Designed and built testing environments (development and simprod) for UC testing in support of the EUCP initiative.
- Redesigned testing framework for end-to-end call testing used both in test and production environments resulting in more than 500,000 dollars of savings per year on proof of concept and production trouble mitigation.
- Supported pre-production design and implementation reviews.
- Responsible for driving proof of concept through validation for production implementation.

#### 06/09/2008 - 07/29/2011

Network Engineer • Overland Solutions Inc

- Responsible for network elements in core enterprise network. Including troubleshooting, testing and turn up, network architecture design.
- Provided support for firewall and routing infrastructure including ongoing configuration and troubleshooting.
- Implemented phone system upgrade migrated from Cisco Call Manager and Unity version 4.0 to CUCM version 7.1.3 and Unity Connections Version 7.1.2.2
- Tier 3 support for Cisco Communications Manager and Unity Connections
- Responsible for support of Frontrage IP Communications
   Management software
- Responsible for all phone configurations and testing including ASA integrated phone proxy. Phone encryption field integration testing.
- Implemented live migration from PIX 525 platform firewall architecture to ASA 5520
- Provided support for corporate VPN including site to site connections and performed migration from Cisco VPN concentrators to ASA 5520

- Migrated switching platform from Cisco 3750 to Foundry Fast-Iron platform.
- Provided support for network applications. (OSITrac, Altiris, Remote, Auditstream)
- Responsible for QA network configuration and testing
- Responsible for network troubleshooting and engineering level support

10/08/2007 - 03/24/2008

Network Engineer I • TEK Systems/Sprint | Nextel

- Provided engineering support for the national rollout of MLPPP for QCHAT - performed both router conversions and remote BTS conversions for Lucent, Nortel, and Motorola markets.
- Performed Live-Market migrations from the Juniper M10i platform to the Juniper M40e platform including global and site-specific configurations and RNC swings.
- Provided engineering support for new turn-ups of network elements on the EVDO network including building of core network elements and cell sites.
- Provided troubleshooting for IP services on EVDO network for Cisco 10k routers (Nortel, and Motorola Markets) and Juniper M10/M40 routers (Lucent Markets)
- Provided engineering support for COWs for special events (NASCAR races and Super Bowl XLII)
- Assisted in element troubleshooting for 4G network elements.

Additional work experience available upon request.

### REFERENCES

[Available upon request.]

# MATTHEW SAMS

22706 W 51<sup>st</sup> St, Shawnee, KS 66226 · 785-506-4449 matthewsams082@gmail.com · <u>Matthew Sams | LinkedIn</u>

Experienced professional leader with a background in telecommunications and customer service. Resultsoriented with an emphasis on regulatory management, program management, streamlining strategic initiatives, and communication of objectives between departments and C-level management.

### **SKILLS & ACCOMPLISHMENTS:**

- Successfully participated in numerous public funding opportunities which have provided over \$79 million in funds to close the digital divide in rural America
- Developed regulatory reporting, policies, and procedures to ensure operational compliance with various local, state, and federal telecommunications regulating entities
- Implemented numerous programs, developing policies and procedures to assist in growing the organization from 35 employees in 2019 to over 85 employees in 2020
- Assisted in the development of the Company's OSS, Ceres, working closely with software developers, engineers, and departments across the organization
- Developed call center infrastructure, deployed software and tools used by customer service, sales, and technical assistance teams
- Developed and implemented key performance metric measurements and reporting for all departments in the organization
- Assisted in the development of the initial Human Resources framework, standardization of documentation, and recruitment best practices

### **EDUCATION**

### MAY 2010

BACHELOR OF BUSINESS ADMINISTRATION, WASHBURN UNIVERSITY, TOPEKA, KS

• Emphasis on business information systems management

### MAY 2004

### ASSOCIATE OF APPLIED SCIENCE, WASHBURN UNIVERSITY, TOPEKA, KS

• Emphasis on industrial technology management

### MAY 2002

**INFORMATION SYSTEMS TECHNOLOGY,** WASHBURN INSTITUTE OF TECHNOLGOY, TOPEKA, KS

• Emphasis on computer hardware, Microsoft and Linux network operating systems, directory services, LAN/WAN technologies and messaging services

### EXPERIENCE

#### 2019 – CURRENT

### CHIEF OF STAFF, MERCURY WIRELESS INC.

- Oversee regulatory compliance developing processes, procedures, and reporting to ensure the Company is compliant with local, state, and federal regulatory entities
- Identify public funding opportunities, develop, and write grants proposals, and manage all public funding initiatives to support the strategic goals of the Company
- Oversee strategic business initiatives from development to successful execution
- Assist and communicate with executives in decision-making, program management, and initiative implementation
- Review, design, and execute on improvements to organizational structure, providing solutions to address skills and knowledge gaps
- Improve current processes and coordinate organizational procedures, developing documentation to support the needs of all departments
- Oversee daily operations through collaboration with senior management and department leaders

#### 2011 - 2019

### CUSTOMER SERVICE MANAGER, MERCURY WIRELESS INC.

- Manage and maintain call center infrastructure and development
- Hire, on-board, train, coach, develop, and retain call center agents
- Develop and implement service focused culture to ensure customer satisfaction
- Communicate goals to agents to align employee and Company interests
- Handle complex customer requests and coordinate between employees and departments to facilitate a timely resolution

#### 2002 - 2011

### ASSISTANT MANAGER, OFFICEMAX INC.

- Partner with Store Manager to drive customer, sales, and service culture
- Oversee hiring, scheduling, and training of associate and supervisory level positions
- Assist in day-to-day operations and develop strategies to achieve sales, service, and performance goals

MW



785-633-4466 Michael.Watkins3083@gmail.com 4713 SE 25th Street, Tecumseh, K S 66542

### PROFESSIONAL SUMMARY

Success driven individual with comprehensive experience in Sales & Operations. Track record of success as sales and operations, with experience as a multi-unit retail manager. Seeking an organization that will benefit my 20+ years of sales success, management and leadership experience.

### SKILLS

- RF Backhaul, PTMP and Telecom experience
- P&L Management
- Project Management
- Inventory Control
- Recruiting, Hiring, Training & Developing new employees
- Highly skilled in 3D and 2D CAD & Chief Architect.
- Merchandising and Product Displays

- Technology Driven
- Business Management
- Leading Teams
- Client account Management
- Established track record of exceptional sales results
- Blueprint's and Floorplan's / Architectural Design
- Advanced in Microsoft Excel, and
   PowerPoint

### EXPERIENCE

Operations Manager / Chief Architectural Designer, Window Design Company, Mar 2017 -Current, Silver Lake, KS

- Sales & Operations Manager on the Remodeling Side for Additions, Kitchens, Baths, Decks, Screen Rooms
- Manage construction crews & subcontractors
- Architectural design work on remodeling projects including working with local city/county to obtain permits.
- Project management and procurement of materials/coordination of the project schedules
- Integrated new CRM Software to run Leads and Projects (BuilderTrend)

Director of Operations, t3 Broadband, Feb 2013 - Apr 2017, Council Grove, KS

- Helped create and implement operational procedures, designed CRM for sales and project management & standardized company on sales processes
- Managed the Engineering Team and Field Services Team
- Worked on strategic partnerships and managed procurement of products, working with our distribution channels and partners
- Recruiting & Hiring

- Developed business opportunities by building excellent relationships with current clients, networking in industry, and cultivating strong partnerships.
- Worked on site and in field along side Engineering & Installation Crews

District Manager, RadioShack Corp, Oct 2006 - Apr 2013, Kansas City, KS

- Accountable for managing the operations of 51 stores with sales volume of over \$35 million dollars.
- Responsible for managing the execution of store merchandising, payroll & scheduling, loss prevention, accurate pricing and replenishment of products.
- Lead team of Managers to drive sales and run and effective operation and drive year over year profit and revenue growth.
- Drive Performance of key metrics important to the company such as accessory attach rate, wireless phone sell rate and service plans.

Store Manager, RadioShack – Topeka, Mar 2004 - Oct 2006

- Managed 3 Different Locations during this time.
- Increase sales from \$500k/year to \$790k in two years.

Sales Associate, RadioShack Corp, Jul 2000 - Mar 2004, Topeka, KS

- Consistently achieved sales targets Highest month was \$33,000 which was 50% of the store volume Held the record for the most wireless phones sold in a month of 67 wireless phones.
- Recognized by the DM as being the most profitable sales associate.
- Received several awards including a "Customer Service" awards from a customer compliment received and Sales associate of the month awards.

### EDUCATION

Drafting & Architectural Design Kaw Area Technical School - Topeka, Kansas	Jan 2002
High School Diploma, Engineering and Architectural Design Washburn Rural High School - Topeka, KS	May 2001

## Mercury Wireless, Inc.

Independent Auditor's Report and Consolidated Financial Statements

December 31, 2019 and 2018

### Mercury Wireless, Inc. December 31, 2019 and 2018

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### Independent Auditor's Report

Board of Directors Mercury Wireless, Inc. and Subsidiaries Topeka, Kansas

We have audited the accompanying consolidated financial statements of Mercury Wireless, Inc. and subsidiaries, which comprise the consolidated balance sheets as of December 31, 2019 and 2018, and the related consolidated statements of income, stockholders' equity and cash flows for the years then ended, and the related notes to the consolidated financial statements.

#### Management's Responsibility for the Financial Statements

Management is responsible for the preparation and fair presentation of these consolidated financial statements in accordance with accounting principles generally accepted in the United States of America; this includes the design, implementation and maintenance of internal control relevant to the preparation and fair presentation of consolidated financial statements that are free from material misstatement, whether due to fraud or error.

#### Auditor's Responsibility

Our responsibility is to express an opinion on these consolidated financial statements based on our audits. We conducted our audits in accordance with auditing standards generally accepted in the United States of America. Those standards require that we plan and perform the audit to obtain reasonable assurance about whether the consolidated financial statements are free from material misstatement.

An audit involves performing procedures to obtain audit evidence about the amounts and disclosures in the consolidated financial statements. The procedures selected depend on the auditor's judgment, including the assessment of the risks of material misstatement of the consolidated financial statements, whether due to fraud or error. In making those risk assessments, the auditor considers internal control relevant to the entity's preparation and fair presentation of the consolidated financial statements in order to design audit procedures that are appropriate in the circumstances, but not for the purpose of expressing an opinion on the effectiveness of the entity's internal control. Accordingly, we express no such opinion. An audit also includes evaluating the appropriateness of accounting policies used and the reasonableness of significant accounting estimates made by management, as well as evaluating the overall presentation of the consolidated financial statements.

We believe that the audit evidence we have obtained is sufficient and appropriate to provide a basis for our audit opinion.



Board of Directors Mercury Wireless, Inc. and Subsidiaries Page 2

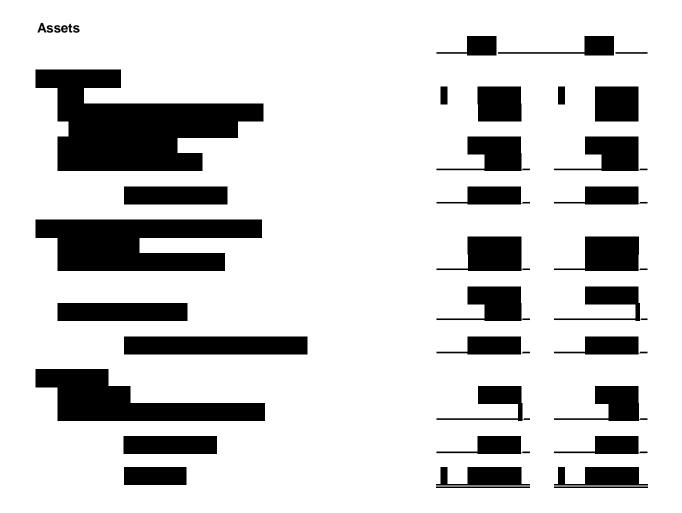
### **Opinion**

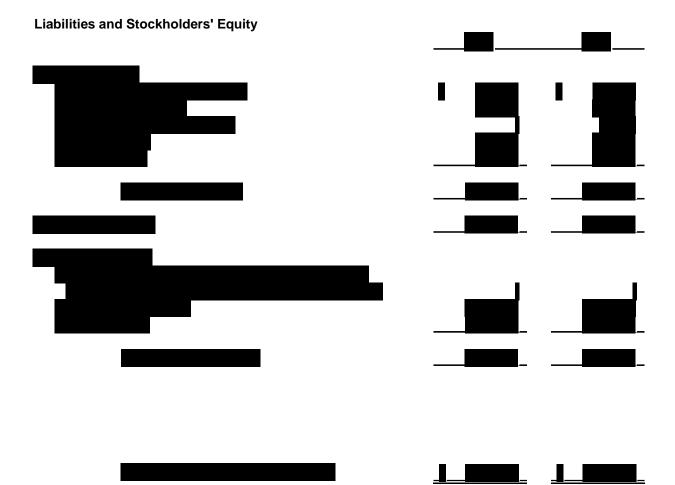
In our opinion, the consolidated financial statements referred to above present fairly, in all material respects, the financial position of Mercury Wireless, Inc. and subsidiaries as of December 31, 2019 and 2018, and the results of their operations and their cash flows for the years then ended in accordance with accounting principles generally accepted in the United States of America.

BKD,LLP

West Des Moines, Iowa April 7, 2020

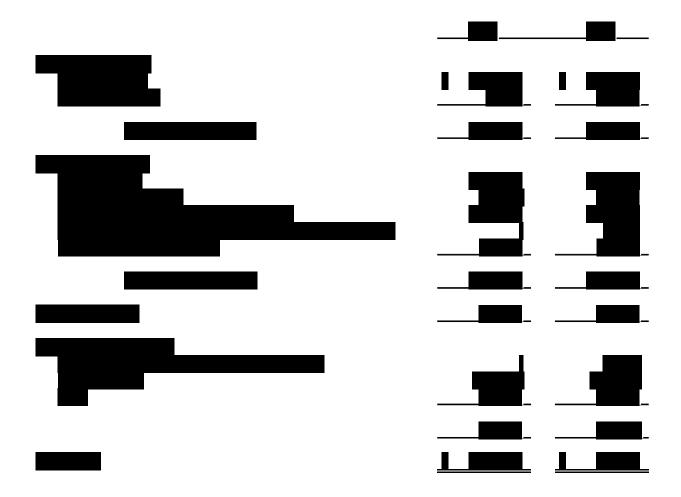
Mercury Wireless, Inc. Consolidated Balance Sheets December 31, 2019 and 2018



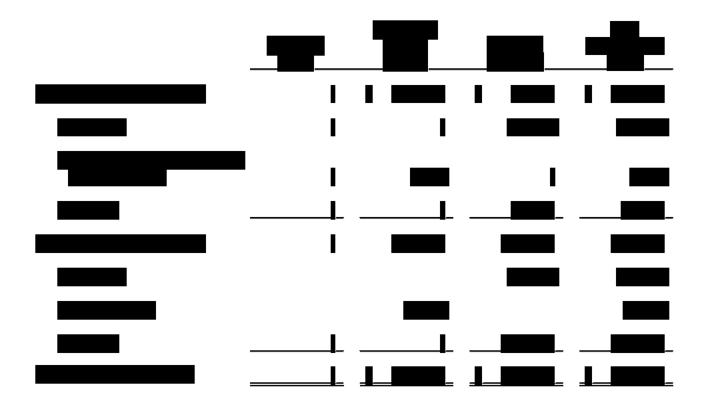


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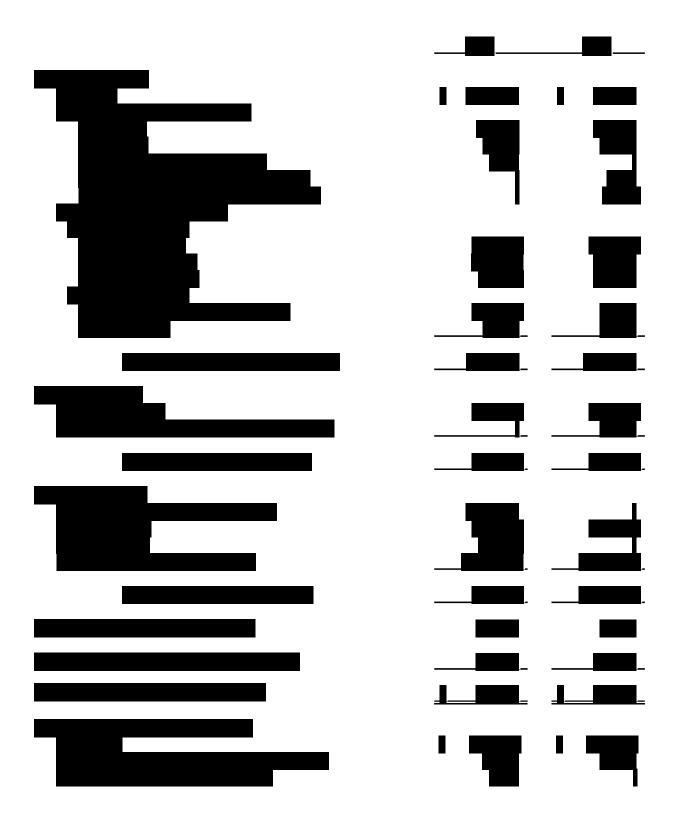
Mercury Wireless, Inc. Consolidated Statements of Income Years Ended December 31, 2019 and 2018



### Mercury Wireless, Inc. Consolidated Statements of Stockholders' Equity Years Ended December 31, 2019 and 2018



**Mercury Wireless, Inc.** Consolidated Statements of Cash Flows Years Ended December 31, 2019 and 2018



### Note 1: Nature of Operations and Summary of Significant Accounting Policies

#### Nature of Operations

Mercury Wireless, Inc. and subsidiaries (herein referred to as "the Company") is a provider of Internet, phone and other telecommunications services throughout the Midwestern United States. The Company has offices in Topeka, Kansas, Fort Wayne, Indiana and Kansas City, Missouri.

#### Principles of Consolidation

The consolidated financial statements include the accounts of the Company, its wholly-owned subsidiaries, Mercury Wireless Kansas, LLC, Mercury Wireless Indiana, LLC, Mercury Access Solutions, LLC and Mercury Networks, LLC. All significant intercompany accounts and transactions have been eliminated in consolidation.

### Use of Estimates

The preparation of consolidated financial statements in conformity with accounting principles generally accepted in the United States of America requires management to make estimates and assumptions that affect the reported amounts of assets and liabilities and disclosure of contingent assets and liabilities at the date of the financial statements and the reported amounts of revenues and expenses during the reporting period. Actual results could differ from those estimates.

#### Cash

### Accounts Receivable

Accounts receivable are stated at the amount of consideration from customers of which the Company has an unconditional right to receive plus any accrued and unpaid interest. The Company provides an allowance for doubtful accounts, which is based upon a review of outstanding receivables, historical collection information and existing economic conditions.

Receivables are

written off when they become uncollectible based on individual credit evaluation and specific circumstances of the customer.

### Materials and Supplies Pricing

Materials and supplies

. Costs are determined using the FIFO method.

### Property, Plant and Equipment

Property, plant and equipment acquisitions are stated at cost, less accumulated depreciation and amortization. Original cost includes the capitalized cost such as salaries and wages and materials.

The Company provides for depreciation for financial reporting purposes on the straight-line method by the application of rates based on the estimated service lives of the various classes of depreciable property. Leasehold improvements are amortized over the shorter of the lease term or their respective estimated useful lives. These estimates are subject to change in the near term.

The estimated useful lives for each major depreciable classification of property and equipment are as follows:



Repairs of other property, as well as renewals of minor items, are charged to cost of services expense. A gain or loss is recognized when other property is sold or retired.

#### Goodwill

The Company has elected the private company accounting alternative for the subsequent measurement of goodwill. Under this alternative, goodwill is amortized on a straight-line basis over 10 years. The Company evaluates the recoverability of the carrying value of goodwill at the entity level whenever events or circumstances indicate the carrying amount may not be recoverable.

In testing goodwill for impairment, the Company has the option first to perform a qualitative assessment to determine whether it is more-likely-than-not that goodwill is impaired or the entity can bypass the qualitative assessment and proceed directly to the quantitative test by comparing the carrying amount, including goodwill, of the entity with its fair value. The goodwill impairment loss, if any, is measured as the amount by which the carrying amount of an entity, including goodwill, exceeds its fair value. Subsequent increases in goodwill value are not recognized in the consolidated financial statements.

#### Intangible Assets

Intangible assets with finite lives are being amortized on the straight-line basis over periods ranging from 5 to 10 years. Such assets are periodically evaluated as to the recoverability of their carrying values.

### Long-Lived Asset Impairment

The Company evaluates the recoverability of the carrying value of long-lived assets whenever events or circumstances indicate the carrying amount may not be recoverable. If a long-lived asset is tested for recoverability and the undiscounted estimated future cash flows expected to result from the use and eventual disposition of the asset are less than the carrying amount of the asset, the asset cost is adjusted to fair value and an impairment loss is recognized as the amount by which the carrying amount of a long-lived asset exceeds its fair value.

No asset impairment was recognized during the years ended December 31, 2019 and 2018.

#### **Deferred Revenue**

Revenue from fees for Internet services is deferred and recognized over the periods to which the fees relate.

#### **Debt Issuance Costs**

Debt issuance costs represent costs incurred in connection with the issuance of long-term debt. Such costs are being amortized over the term of the respective debt using the effective interest method.

### Asset Retirement Obligations

Accounting principles generally accepted in the United States of America require that an asset retirement obligation (ARO) associated with the retirement of a tangible long-lived asset be recognized as a liability in the period in which it is incurred or becomes determinable (as defined by the standard) even when the timing and/or method of settlement may be conditional on a future event.

When the liability is initially recorded, the entity capitalizes the cost of the asset retirement obligation by increasing the carrying amount of the related long-lived asset. Over time, the liability is accreted to its present value each period, and the capitalized cost is depreciated over the useful life of the related asset.

The Company has determined it does not have a material legal obligation to remove long-lived assets, and accordingly, there have been no liabilities recorded for the years ended December 31, 2019 and 2018.

#### Income Taxes

The Company's stockholders have elected to have the Company's income taxed as an S Corporation under provisions of the Internal Revenue Code and a similar section of the Kansas income tax law. Therefore, taxable income or loss is reported to the individual stockholders for inclusion in their respective tax returns and no provision for federal and state income taxes is included in these statements.

### **Revenue Recognition**

Revenue is recognized when control of the promised goods or services is transferred to the Company's customers, in an amount that reflects the consideration that it expects to be entitled to in exchange for those goods or services. The amount and timing of revenue recognition varies based on the nature of the goods or services provided and the terms and conditions of the customer contract. See Note 5 for additional information about the Company's revenue.

### **Advertising Costs**

Advertising costs are expensed as incurred. Advertising expenses were in 2019 and 2018, respectively.

### Stock Option Plan

At December 31, 2019 and 2018, the Company has a

### Taxes Collected from Customers and Remitted to Governmental Authorities

Taxes collected from customers and remitted to governmental authorities are presented in the accompanying statements of income on a net basis.

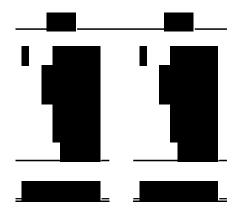
### Reclassifications

Certain reclassifications have been made to the 2018 consolidated financial statements to conform to the 2019 consolidated financial statement presentation. These reclassifications had no effect on net earnings.

### Note 2: Property, Plant and Equipment

Property, plant and equipment includes the following as of December 31, 2019 and 2018:

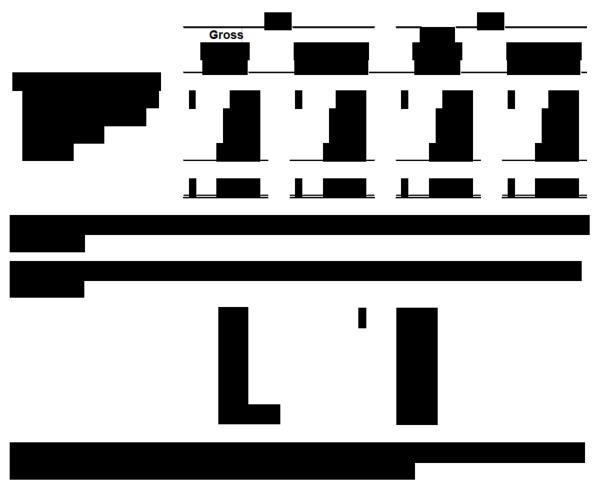




Depreciation on depreciable property resulted in composite rates of 8.1% and 9.79% for 2019 and 2018, respectively.

### Note 3: Intangible Assets and Goodwill

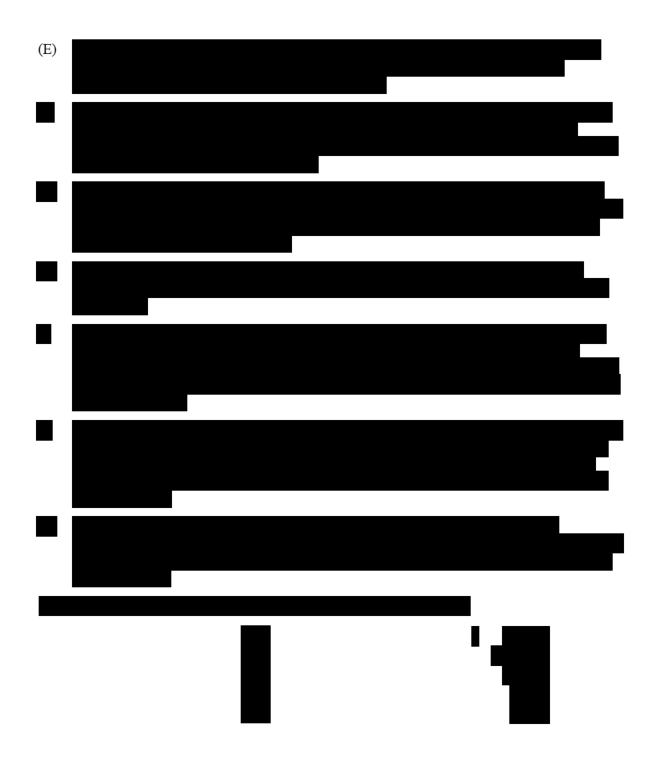
The carrying basis and accumulated amortization of recognized intangible assets at December 31, 2019 and 2018, were:



### Note 4: Long-Term Debt

Long-term debt as of December 31, 2019 and 2018 consists of the following:





### Note 5: Stock Option Plan

### Note 6: Revenue from Contracts with Customers

### Change in Accounting Principle

In May 2014, the Financial Accounting Standards Board (FASB) issued Accounting Standards Update (ASU) No. 2014-09, *Revenue from Contracts with Customers (Topic 606)*, that replaces existing revenue recognition guidance. The new standard requires companies to recognize revenue in a way that depicts the transfer of promised goods or services to customers in an amount that reflects the consideration to which the entity expects to be entitled in exchange for those goods or services. In addition, Topic 606 requires disclosures of the nature, amount, timing and uncertainty of revenue and cash flows arising from contracts with customers.

The Company adopted this standard on January 1, 2019, using a modified retrospective approach with the cumulative effect of initially applying the new standard recognized in retained earnings at the beginning of the year of adoption. Comparative prior period information has not been adjusted and continues to be reported in accordance with previous revenue recognition guidance in ASC Topic 605 — *Revenue Recognition*. The Company has applied the new standard to all contracts not complete at the date of adoption.

The Company's adoption of Topic 606 did not result in a change to the timing of revenue recognition. Other impacts from the adoption of Topic 606 on the financial statements were immaterial.

### Performance Obligations

Revenue is measured as the amount of consideration the Company expects to receive in exchange for transferring distinct goods or providing services to customers. The Company's revenue consists substantially of Internet services and ancillary equipment offered to customers.

#### Local services

The Company offers wireless Internet and VOIP services on a standalone basis. Internet and VOIP service revenue is recognized over time as the customer simultaneously receives and consumes the benefits provided by the Company as the Company performs. Customary terms require payment within 20 days from the bill date, and for certain customers, deposits may be required in advance of service. Billing is completed at the beginning of the month of service.

#### Hardware sales and installation services

The Company sells ancillary communications equipment directly to end user customers and suppliers. Direct sales to end user customers include products and may include related services such as installation and home network management services. These products are distinct from the delivered communications services within the context of the contract, and therefore revenue is recognized for products, installation and management on a discrete basis. Revenue is recognized when equipment is made available or the service is completed and the Company has an enforceable right to payment.

### Disaggregation of Revenue

The following table presents the Company's revenues disaggregated by the timing of such revenue recognized under Topic 606 during the years ended December 31, 2019 and 2018:



Revenues not subject to ASC 606 consist primarily of government support.

The Company has determined that the nature, amount, timing and uncertainty of revenue and cash flows are not materially affected by any factors such as geography of service location, customer type, or service line.

### Significant Judgments

For contracts where access is made available over time, the Company recognizes revenue over the contract period for which the customer has subscribed to service. The Company measures a contract's progress based on days expired over the total monthly contract period, a so-called output method.

### Accounting Policies and Practical Expedients Elected

#### Accounting Policies

The Company is applying an accounting policy election, which allows an entity to exclude from revenue any amounts collected from customers on behalf of third parties, such as sales taxes and other similar taxes we collect concurrent with revenue-producing activities. Therefore, revenue is presented net of sales taxes and similar revenue-based taxes.

#### Practical Expedients

The Company elected to use the portfolio approach to evaluate contracts. As a practical expedient, a portfolio approach is permitted if it is reasonably expected that the approach's impact on the financial statements will not be materially different from the impact of applying the revenue standard on an individual contract basis. In order to use the portfolio approach, an entity must reasonably expect that the accounting result will not be materially different from the result of applying the standard to the individual contracts.

For incremental costs of obtaining a contract, the Company elected a practical expedient, which permits an entity to recognize incremental costs to obtain a contract as an expense when incurred if the amortization period is less than one year. This election had an immaterial effect on the Company's financial statements.

For sales and other similar taxes collected from customers on behalf of third parties, the Company elected a practical expedient, which permits entities to exclude from the transaction price all sales taxes that are assessed by a governmental authority and that are "imposed on, and concurrent with a specific revenue-producing transaction and collected by the entity from a customer."

For measuring progress for revenue recognized over time, the Company elected to use the right to invoice practical expedient. This practical expedient allows an entity to recognize revenue in the amount of consideration to which the entity has the right to invoice when the amount that the entity has the right to invoice corresponds directly to the value transferred to the customer. That is, the invoice practical expedient cannot be applied in all circumstances because the right to invoice a certain amount does not always correspond to the progress toward satisfying the performance obligation. Therefore, an entity should demonstrate its ability to apply the invoice practical expedient to performance obligations satisfied over time.

### Note 7: Federal Funding

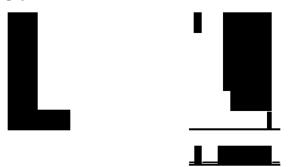
During 2018, the Company successfully bid to receive funding through the Federal Communications Commission's Connect America Fund Phase II ("CAF II") auction. The auction allocated funds to distribute over a ten-year period to expand rural broadband services in unserved areas in 45 states as part of an effort to close the digital divide in rural America. Providers must build out up to 40% of the assigned homes and businesses in a state within three years of becoming authorized to receive support. Buildout must increase by 20% in each subsequent year, until complete buildout is reached at the end of the sixth year.

The Company successfully bid and was awarded funding of \$4,610,330 to buildout broadband services in five states: Kansas, Missouri, Indiana, Michigan and Ohio. The company received \$268,936 and \$- in distributed funds for years ended 2019 and 2018, respectively. During 2018, the Company recorded \$81,941 of expenses related to obtaining the funding of grant funds.

### Note 8: Operating Leases

The Company has entered into various lease agreements to rent towers, spectrum and buildings that expire in various years through 2041.

Required future minimum lease payments at December 31, 2019 are as follows:



### Note 9: Employee Benefit Plan

The Company has a 401(k) retirement savings plan covering all employees that meet certain eligibility requirements. Eligible participating employees may elect to contribute up to a maximum amount of tax deferred contribution allowed by the Internal Revenue Code. The Company may make a discretionary contribution to the plan determined annually by the board of directors. Contributions to the plan were \$-for the years ended December 31, 2019 and 2018.

### Note 10: Related Party Transactions

As of December 31, 2018, the Company incurred accounts payable

### Note 11: Future Change in Accounting Principles

### Accounting for Leases

The Financial Accounting Standards Board amended its standard related to the accounting for leases. Under the new standard, lessees will now be required to recognize substantially all leases on the balance sheets as both a right-of-use asset and a liability. The standard has two types of leases for income statement recognition purposes: operating leases and finance leases. Operating leases will result in the recognition of a single lease expense on a straight-line basis over the lease term similar to the treatment for operating leases under existing standards. Finance leases will result in an accelerated expense similar to the accounting for capital leases under existing standards. The determination of lease classification as operating or finance will be done in a manner similar to existing standards. The new standard also contains amended guidance regarding the identification of embedded leases in service contracts and the identification of lease and non-lease components in an arrangement. The new standard is effective for annual periods beginning after December 15, 2020, and any interim periods within annual reporting periods that begin after December 15, 2021. The Company is evaluating the effect the standard will have on the financial statements; however, the standard is expected to have a material effect on the financial statements due to the recognition of additional assets and liabilities for operating leases.

#### Accounting for Financial Instruments – Credit Losses

The Financial Accounting Standards Board amended its standards related to the accounting for credit losses on financial instruments. This amendment introduces new guidance for accounting for credit losses on instruments including trade receivables and finance receivables. The new standard is effective for fiscal years beginning after December 15, 2022, including interim periods within those years. The Company is in the process of evaluating the effect the amendment will have on the financial statements.

### Note 12: Subsequent Events

As a result of the spread of the COVID-19 coronavirus, actions taken to mitigate its spread have had an adverse impact on local and national economies and the global financial markets. To date, the Company has not seen a material impact on its business. However, the duration of these actions and the ultimate financial effects cannot be reasonably estimated at this time.

Subsequent events have been evaluated through April 7, 2020, which is the date the financial statements were available to be issued.

Independent Auditor's Reports and Consolidated Financial Statements

December 31, 2018 and 2017



December 31, 2018 and 2017

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## **Consolidated Financial Statements**

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## Independent Auditor's Report

Board of Directors Mercury Wireless, Inc. & Subsidiaries Topeka, Kansas

#### **Report on the Financial Statements**

We have audited the accompanying consolidated financial statements of Mercury Wireless, Inc. & Subsidiaries, which comprise the balance sheets as of December 31, 2018 and 2017, and the related consolidated statements of income, stockholders' equity and cash flows for the years then ended, and the related notes to the consolidated financial statements.

#### Management's Responsibility for the Financial Statements

Management is responsible for the preparation and fair presentation of these consolidated financial statements in accordance with accounting principles generally accepted in the United States of America; this includes the design, implementation and maintenance of internal control relevant to the preparation and fair presentation of consolidated financial statements that are free from material misstatement, whether due to fraud or error.

#### Auditor's Responsibility

Our responsibility is to express an opinion on these consolidated financial statements based on our audits. We conducted our audits in accordance with auditing standards generally accepted in the United States of America. Those standards require that we plan and perform the audit to obtain reasonable assurance about whether the consolidated financial statements are free from material misstatement.

An audit involves performing procedures to obtain audit evidence about the amounts and disclosures in the consolidated financial statements. The procedures selected depend on the auditor's judgment, including the assessment of the risks of material misstatement of the consolidated financial statements, whether due to fraud or error. In making those risk assessments, the auditor considers internal control relevant to the entity's preparation and fair presentation of the consolidated financial statements in order to design audit procedures that are appropriate in the circumstances, but not for the purpose of expressing an opinion on the effectiveness of the entity's internal control. Accordingly, we express no such opinion. An audit also includes evaluating the appropriateness of accounting policies used and the reasonableness of significant accounting estimates made by management, as well as evaluating the overall presentation of the consolidated financial statements.

We believe that the audit evidence we have obtained is sufficient and appropriate to provide a basis for our audit opinion.



Board of Directors Mercury Wireless, Inc. & Subsidiaries Page 2

#### **Opinion**

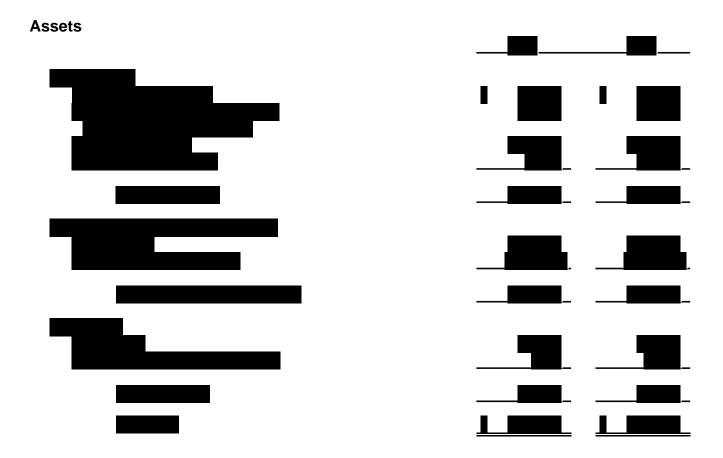
In our opinion, the consolidated financial statements referred to above present fairly, in all material respects, the financial position of Mercury Wireless, Inc. & Subsidiaries as of December 31, 2018 and 2017, and the results of their operations and their cash flows for the years then ended in accordance with accounting principles generally accepted in the United States of America.

BKD,LLP

Kansas City, Missouri March 11, 2020



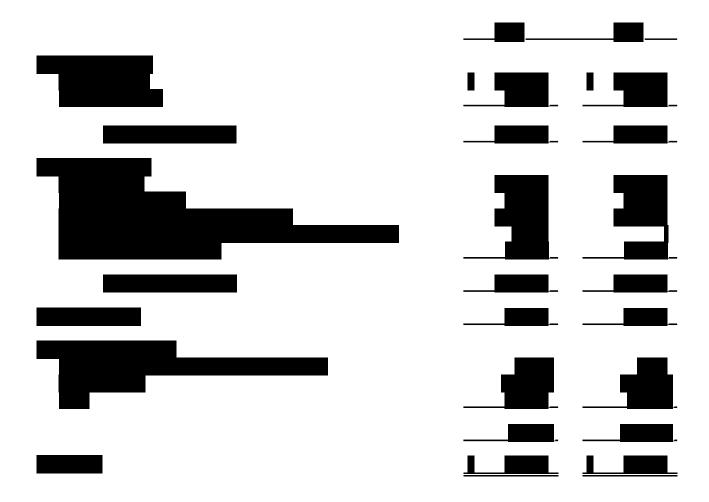
Consolidated Balance Sheets December 31, 2018 and 2017



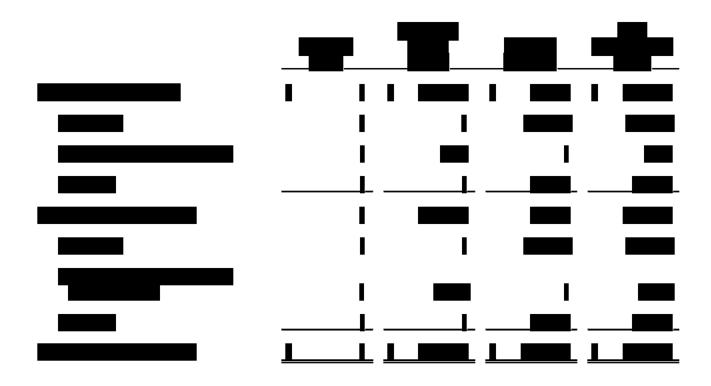


Liabilities and Stockholders' Equity

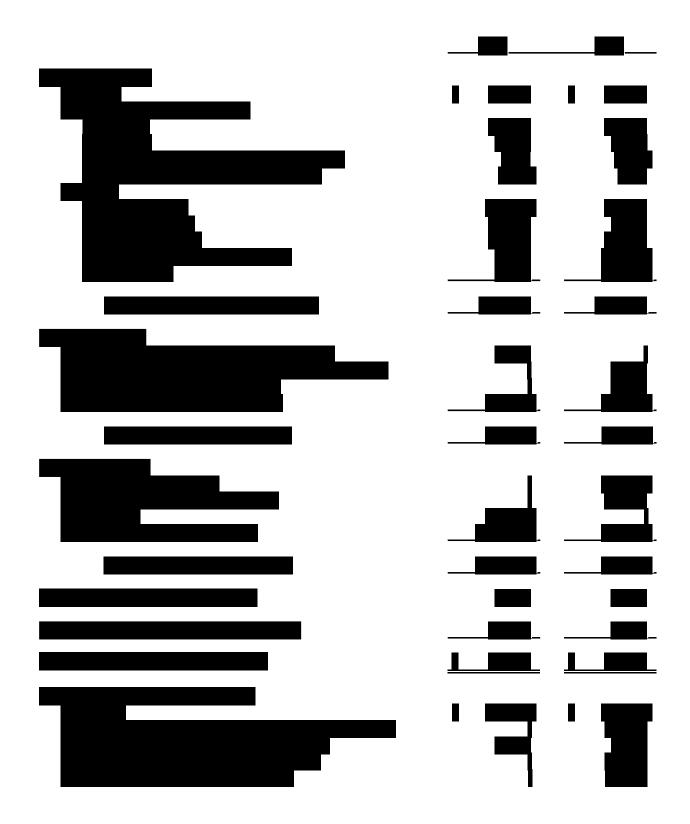
Consolidated Statements of Income Years Ended December 31, 2018 and 2017



Consolidated Statements of Stockholders' Equity Years Ended December 31, 2018 and 2017



Consolidated Statements of Cash Flows Years Ended December 31, 2018 and 2017



## Mercury Wireless, Inc. & Subsidiaries Notes to Consolidated Financial Statements

December 31, 2018 and 2017

## Note 1: Nature of Operations and Summary of Significant Accounting Policies

### Nature of Operations

Mercury Wireless, Inc. & Subsidiaries (herein referred to as "the Company") is a provider of Internet, phone and other telecommunications services throughout the Midwestern United States. The Company has offices in Topeka, Kansas, Fort Wayne, Indiana and Kansas City, Missouri.

### Principles of Consolidation

The consolidated financial statements include the accounts of the Company, its wholly-owned subsidiaries, Mercury Wireless Kansas, LLC, Mercury Wireless Indiana, LLC, Mercury Access Solutions, LLC and Mercury Networks, LLC. All significant intercompany accounts and transactions have been eliminated in consolidation. See *Note 2* for additional discussion of the Common Control Transaction.

### Use of Estimates

The preparation of consolidated financial statements in conformity with accounting principles generally accepted in the United States of America requires management to make estimates and assumptions that affect the reported amounts of assets and liabilities and disclosure of contingent assets and liabilities at the date of the consolidated financial statements and the reported amounts of revenues and expenses during the reporting period. Actual results could differ from those estimates.

### Cash

## Accounts Receivable

Accounts receivable are stated at the amount billed to customers plus any accrued and unpaid fees. The Company provides an allowance for doubtful accounts, which is based upon a review of outstanding receivables, historical collection information and existing economic conditions. Accounts receivable are ordinarily due Receivables are written off when they become uncollectible based on individual credit evaluation and specific circumstances of the customer.

## Materials and Supplies Pricing

Materials and supplies consists of CPEs, base stations and tower supplies. Inventories are stated at the lower of cost or net realizable value. Costs are determined using the FIFO method.

### Prepaid Expenses and Other

The Company used a portion of the bridge loan proceeds issued in 2017 to

### Property, Plant and Equipment

Property, plant and equipment acquisitions are stated at cost less accumulated depreciation and amortization. Depreciation and amortization is charged to expense on the straight-line basis over the estimated useful life of each asset. The estimated useful lives for each major depreciable classification of property, plant and equipment are as follows:





## Goodwill

The Company has elected the private company accounting alternative for the subsequent measurement of goodwill. Under this alternative, goodwill is amortized on a straight-line basis over 10 - 15 years depending on the goodwill acquired. The Company evaluates the recoverability of the carrying value of goodwill at the entity level whenever events or circumstances indicate the carrying amount may not be recoverable.

In testing goodwill for impairment, the Company has the option first to perform a qualitative assessment to determine whether it is more likely than not that goodwill is impaired or the entity can bypass the qualitative assessment and proceed directly to the quantitative test by comparing the carrying amount, including goodwill, of the entity with its fair value. The goodwill impairment loss, if any, is measured as the amount by which the carrying amount of an entity, including goodwill, exceeds its fair value. Subsequent increases in goodwill value are not recognized in the consolidated financial statements.

## Long-lived Asset Impairment

The Company evaluates the recoverability of the carrying value of long-lived assets whenever events or circumstances indicate the carrying amount may not be recoverable. If a long-lived asset is tested for recoverability and the undiscounted estimated future cash flows expected to result from the use and eventual disposition of the asset is less than the carrying amount of the asset, the asset cost is adjusted to fair value and an impairment loss is recognized as the amount by which the carrying amount of a long-lived asset exceeds its fair value. No asset impairment was recognized during the years ended December 31, 2018 or 2017.

#### Asset Retirement Obligations

Generally accepted accounting principles require entities to record the fair value of a liability for legal obligations associated with an asset retirement in the period in which the obligations are incurred. When the liability is initially recorded, the Company capitalizes the costs of the assets retirement obligation by increasing the carrying amount of related long-lived assets.

Over time, the liability is accreted to its present value each period, and the capitalized cost is depreciated over the useful life of the related asset.

The Company has determined it does not have a material legal obligation to remove long-lived assets, and accordingly, there have been no liabilities recorded for the years ended December 31, 2018 or 2017.

### Intangible Assets

Intangible assets are being amortized on the straight-line basis over periods ranging from 5 to 10 years. Such assets are periodically evaluated as to the recoverability of their carrying values.

#### Income Taxes

The Company's stockholders have elected to have the Company's income taxed as an "S" Corporation under provisions of the Internal Revenue Code and a similar section of the Kansas income tax law. Therefore, taxable income or loss is reported to the individual stockholders for inclusion in their respective tax returns and no provision for federal and state income taxes is included in these statements.

#### **Revenue Recognition**

The Company recognizes revenues when earned regardless of the period in which the customer is billed. The Company is required to provide service to subscribers within its defined service territory. Internet revenues are recognized over the period a subscriber is connected to the network.

### Stock Option Plan

At December 31, 2018 and 2017, the Company has a share-based employee compensation plan, which is described more fully in *Note 8*.

#### Taxes Collected from Customers and Remitted to Governmental Authorities

Taxes collected from customers and remitted to governmental authorities are presented in the accompanying consolidated statements of income on a net basis.

### Reclassifications

Certain reclassifications have been made to the 2017 consolidated financial statements to conform to the 2018 consolidated financial statement presentation. These reclassifications had no effect on net earnings. The reclassification primarily changed the presentation of the consolidated statements of income to reflect in more detail the operating expenses of the Company.

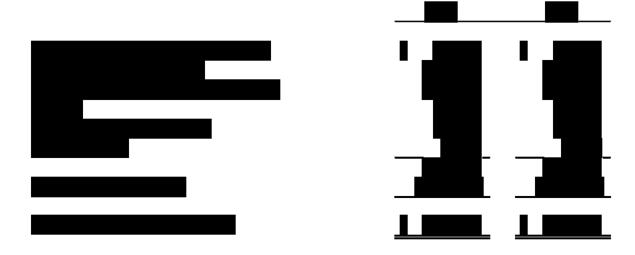
## Note 2: Common Control Transaction

On January 1, 2017, Mercury Wireless, Inc. received 100 percent of the membership interest of Mercury Networks, LLC in exchange for 355 shares of the Company's common stock. The transaction was accounted for under *ASC 805 Business Combinations: Transactions Between Entities Under Common Control*. The Company has accounted for this transaction as a change in reporting entity. The Company recorded the assets and liabilities transferred at their carrying amounts on January 1, 2017 as noted below:



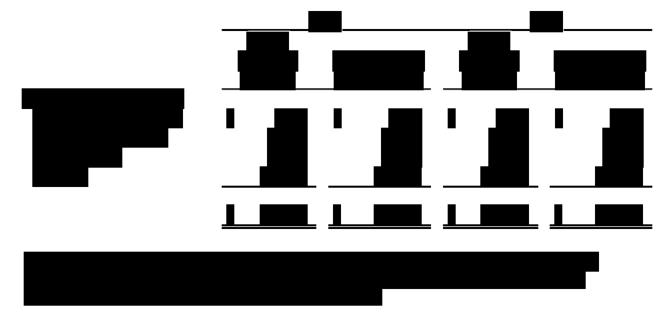
## Note 3: Property, Plant and Equipment

Property, plant and equipment includes the following as of December 31, 2018 and 2017:



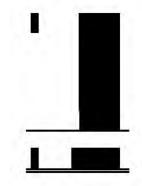
## Note 4: Intangible Assets and Goodwill

The carrying basis and accumulated amortization of recognized intangible assets at December 31, 2018 and 2017, were:



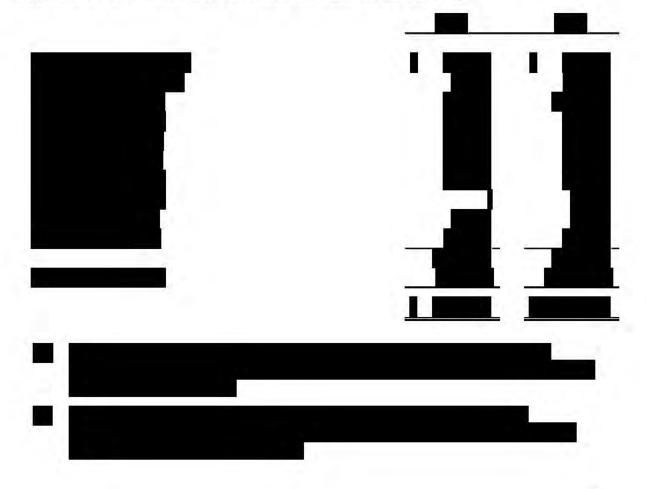
Estimated intangibles and goodwill amortization expense for each of the following five years and thereafter is:

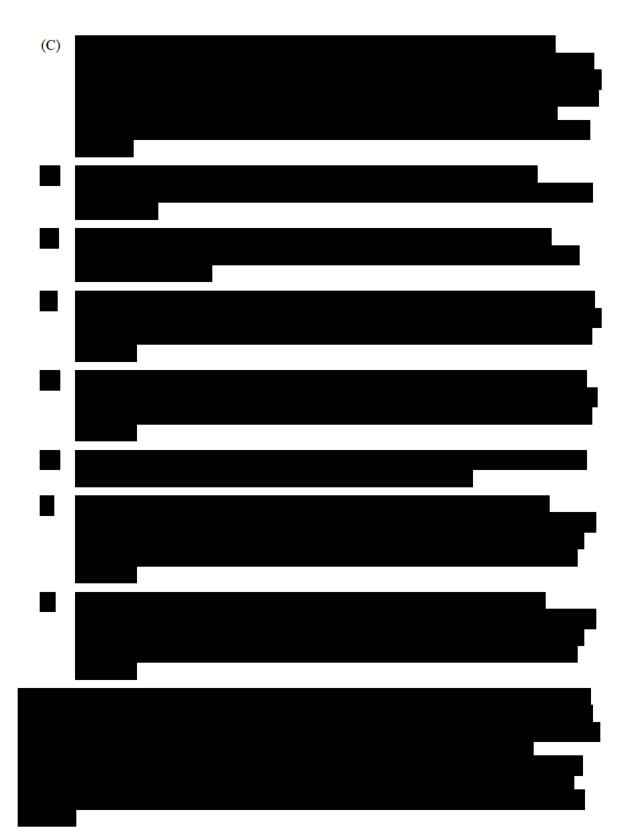




## Note 5: Long-Term Debt

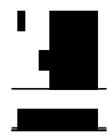
Long-term debt as of December 31, 2018 and 2017 consists of the following:





Aggregate annual maturities of long-term debt, as adjusted for the refinancing, at December 31, 2018 are:



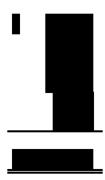


### Note 6: Operating Leases

The Company has entered into various lease agreements to rent towers, spectrum and buildings that expire in various years through 2041.

Required future minimum lease payments at December 31, 2018 are as follows:





## Note 7: Employee Benefit Plan

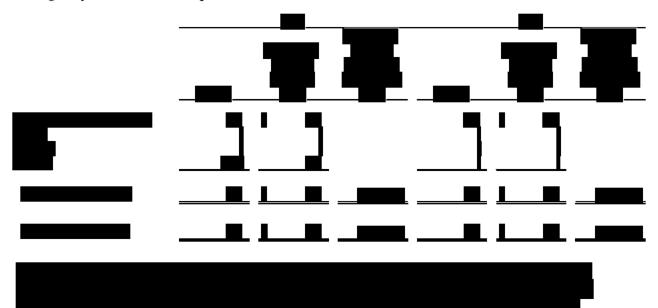
The Company has a 401(k) retirement savings plan covering all employees that meet certain eligibility requirements. Eligible participating employees may elect to contribute up to a maximum amount of tax deferred contribution allowed by the Internal Revenue Code. The Company may make a discretionary contribution to the plan determined annually by the Board of Directors. Contributions to the plan were December 31, 2018 and 2017.

## Note 8: Stock Option Plan

The Company's shareholders have approved the Company's Stock Option Plan (the Plan), which permits the grant of common stock options. The Company believes that such awards better align the interests of its employees with those of its shareholders. Option awards are generally granted with an exercise price determined by the plan administrative body that it believes approximate the then fair value of the stock. Those option awards generally vest based over four years of continuous service and have 10-year contractual terms.

The fair value of each option award is estimated on the date of grant using a Black-Scholes option valuation model that uses the assumptions noted in the following table. Expected volatility is based on a peer group of similar public companies' historical common stock volatility derived from historical stock price data for historical period commensurate with the Company's options' expected life. The Company could not determine its own stock price volatility due to few and infrequent stock transactions and thus, utilized the average volatility of two similar public companies. The expected term of options granted represents the period of time that options are expected to be outstanding. The risk-free rate for periods within the contractual life of the option is based on the U.S. Treasury yield curve in effect at the time of grant.

A summary of option activity under the Plan as of December 31, 2018 and 2017, and changes during the years then ended, is presented below:



## Note 9: Federal Funding

During 2018, the Company successfully bid to receive funding through the Federal Communications Commission's Connect America Fund Phase II ("CAF II") auction. The auction allocated funds to distribute over a ten year period to expand rural broadband services in unserved areas in 45 states as part of an effort to close the digital divide in rural America. Providers must build out up to 40 percent of the assigned homes and businesses in a state within three years of becoming authorized to receive support. Buildout must increase by 20 percent in each subsequent year, until complete buildout is reached at the end of the sixth year.

The Company successfully bid and was awarded funding of \$4,610,330 to buildout broadband services in five states: Kansas, Missouri, Indiana, Michigan and Ohio. No funds were distributed to the Company in 2018; funds are expected to be distributed over the next ten years. During 2018, the Company recorded \$81,941 of expenses related to obtaining the funding of grant funds.

## Note 10: Related Party Transactions

Note 11: Future Change in Accounting Principle

The Financial Accounting Standards Board amended its standard related to the accounting for leases. Under the new standard, lessees will now be required to recognize substantially all leases on the balance sheet as both a right-of-use asset and a liability. The standard has two types of leases for income statement recognition purposes: operating leases and finance leases. Operating leases will result in the recognition of a single lease expense on a straight-line basis over the lease term similar to the treatment for operating leases under existing standards. Finance leases will result in an accelerated expense similar to the accounting for capital leases under existing standards. The determination of lease classification as operating or finance will be done in a manner similar to existing standards. The new standard also contains amended guidance regarding the identification of embedded leases in service contracts and the identification of lease and nonlease components in an arrangement. The new standard is effective for annual periods beginning after December 15, 2019, and any interim periods within annual reporting periods that begin after December 15, 2020. The Company is evaluating the impact the standard will have on the consolidated financial statements; however, the standard is expected to have a material impact on the consolidated financial statements due to the recognition of additional assets and liabilities for operating leases.

## Note 12: Subsequent Events

Subsequent events have been evaluated through March 11, 2020, which is the date the consolidated financial statements were available to be issued.

As of December 31, 2018, the Company had an outstanding receivable of



#### Attachment 8 | Affidavit of Commitment

Mercury Wireless will utilize fiber and fixed wireless technology to extend coverage to unserved communities for which it is requesting funding. The Company is proposing maximum information rate broadband Internet connection speeds up to 1,000Mbps DL x 500Mbps UL with sub 100ms latency for fiber, and 100Mbps DL x 20Mbps UL with sub 100ms latency for wireless. Each package proposed will provide an unlimited data connection to every subscriber with no usage restrictions, throttling, or overage charges. Below is a summary of the package and pricing structure the Company proposes for general availability:

Service	Max DL	Max UL	Latency	List Price	Discounted/ Bundled Price**	Usage
Mercury 10	10	2	<100ms			Unlimited
Mercury 30	30	6	<100ms			Unlimited
Mercury 100	100	20	<100ms			Unlimited
Mercury 1000	1000	500	<100ms			Unlimited
*Residential insta	llation accomp	anied by a 2-year	r service agreem		an cancel agreeme cluding installatio	ent within th

As part of the Company's funding proposal, Mercury Wireless Indiana, LLC ('Mercury Wireless') is committing to providing the proposed service and pricing structure for a minimum of five years after project completion.

- My title is President and Chief Executive Officer of Mercury Wireless Indiana, LLC. In this capacity
  I am in a position of authority to authorize the package and pricing structure outlined in this
  affidavit.
- By this affidavit, I certify that Mercury Wireless Indiana, LLC. is committing to providing the package and pricing structure outlined in this affidavit for a period of no less than 5 years after the project completion date.
- 3. I certify that this document and its contents are accurate to the best of knowledge.

FURTHER AFFIANT SAYETH NAUGHT

Garrett R. Wiseman President & CEO Mercury Wireless Indiana, LLC. 6004 Highview Drive, STE B Fort Wayne, IN 46818



Mercury Wireless Indiana, LLC 6004 Highview Drive, Suite B Fort Wayne, IN 46818

#### Attachment 9 | Budgetary Engineering Designs, Diagrams, and Maps of Proposed Project

#### CONFIDENTIAL INFORMATION

The information in this document is confidential and is intended for person to whom it is addressed. This information should not be disclosed to any other person. It may not be reproduced in whole, or in part, nor may any of the information contained therein be disclosed without the prior consent of the directors of Mercury Wireless Indiana, LLC. ('Mercury', 'Mercury Wireless'). A recipient may not solicit, directly or indirectly (whether through an agent or otherwise the participation of another institution or person) without the prior approval of the directors of Mercury. Any form of reproduction, dissemination, copying, disclosure, modification, distribution and or publication of this material is strictly prohibited.

#### ADDITIONAL INFORMATION

All communications or inquiries relating to these materials should be directed to:

Garrett R. Wiseman Chief Executive Officer Office: (800) 354-4915 garrett.wiseman@mercurywireless.com

Matthew Sams Chief of Staff Office (800) 354-4915 x504 matthew.sams@mercurywireless.com



**CONFIDENTIAL, 1** 



Mercury Wireless Indiana, LLC 6004 Highview Drive, Suite B Fort Wayne, IN 46818

## PE Certification Letter



CONFIDENTIAL, 2



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#### Introduction and Project Summary

- Mercury Wireless has successfully developed an operating model to provide rural Internet Service in Kansas and the company has now duplicated its success in Indiana proving the model is repeatable.
- Mercury has thoughtfully considered its expansion plan considering all business, technical and competitive implications.
- Mercury believes that the following plan will support the Connecting Michigan Communities (CMIC) Grant Program goal of promoting access to broadband service in all areas of the state, which is necessary for a highly functioning 21<sup>st</sup> century economy.

As part of the Company's funding proposal, Mercury is proposing the construction of a hybrid fiber/wireless network to address the broadband gap in rural Michigan. The following overview outlines the critical components of the Company's deployment strategy and how it will meet its obligations under the CMIC Grant Program including deployment locations, coverage, and bandwidth requirements.

The purpose of this plan is to establish an understanding of the company and outline the technical and operational plans being implemented to complete its objectives. This document will serve as a roadmap for the Company's ongoing deployment.

#### **Company History**

Mercury Wireless was founded in Topeka, KS, in September of 2007 after recognizing a need for broadband Internet access in rural America and seeing a lack of viable options. A hybrid approach to serving these "last-mile" customers was developed by extending high capacity fiberoptic networks with the range, reliability, and flexibility of carrier-class wireless technologies. The Company connected its first subscriber in December of 2007.

- 2007 Mercury Wireless is founded, connects its first subscriber.
- 2008 Mercury Wireless acquires Trailnet, a small ISP based in Carbondale, KS, and successfully integrates the infrastructure into its network.
- 2009 Mercury Wireless begins the development of Ceres. The program will eventually evolve into a whole company operating system that integrates all departments, information, and functions into a single platform.
- 2010 Mercury Wireless moves to its next generation of wireless technology, 4G WiMAX. Deployments begin in Northeast Kansas, and maximum speeds increase to 7 Mbps.
- 2012 Mercury Wireless acquires Radius Broadband, a WISP operating in DeSoto, Kansas. The infrastructure and existing subscriber base are integrated into Mercury Wireless.
- 2013 Mercury Wireless launches its 2<sup>nd</sup> network based in Fort Wayne, Indiana. Initial deployments are completed with WiMAX technologies.
- 2014 Mercury Wireless acquires PureWave Networks, an equipment manufacturer specializing in WiMAX technologies.



- 2015 Mercury Wireless acquires Sonic Broadband, a WISP based in Emporia, Kansas. The infrastructure and existing customer base are integrated into Mercury Wireless.
- 2016 Mercury Wireless acquires WOW!, a WISP based in Lawrence, Kansas. The infrastructure and customer base are integrated into Mercury Wireless.
- 2017 Mercury Wireless moved to its next generation of wireless technology, dubbed "XL," increasing maximum speeds to 30 Mbps.
- 2018 Mercury Wireless participates in the Connect America Fund Phase II Auction 903 and is awarded \$4.6M in funding to connect underserved subscribers in Indiana, Kansas, Michigan, Missouri, and Ohio.
- 2019 Mercury Wireless begins testing LTE based technologies operating in the Citizens Broadband Radio Service band (CBRS). Maximum speeds increased to 100 Mbps.
- 2020 Mercury Wireless participates in the Rural Digital Opportunity Fund Auction 904 and is provisionally awarded support to construct services in Michigan. Additionally, Mercury begins its initial fiber-optic projects in Kansas.

Today, Mercury Wireless provides service to thousands of subscribers, including residential, business, and community anchor institutions. Since its inception, the Company has continued to expand its network coverage and increase the services available to its subscribers. For over ten years, the Company has engineered, deployed, and supported carrier-class wireless networks to provide fast, reliable, unlimited, and affordable Internet access to connect and empower the communities we serve.

### Mercury Connects Delton – Project Summary

Delton, Michigan, and its surrounding rural communities lack adequate access to broadband services to support the increasing needs of distance learning, working from home, and access to telehealth services. *Mercury Connects Delton* is a broadband infrastructure improvement project to construct a hybrid fiber/wireless network to connect Delton, in addition to undeserved communities around Pleasant Lake, Crooked Lake, and Hickory Corners.

Mercury Wireless Indiana, LLC (the applicant) is proposing the installation of 14.4 miles of fiber optic broadband cabling to support fiber-to-the-premises (FTTP) connections to 568 residential, business, and community anchor institution locations in and surrounding Delton. The proposed FTTP network would be capable of providing download speeds of up to 1,000 Mbps with unlimited data usage to all connected locations. Additionally, Mercury proposes the construction of 7 wireless access sites to extend fiber-optic network capacity to an additional 712 residential, business, and community anchor institution locations using carrier class LTE-A wireless technologies. The proposed wireless network will be capable of providing connection speeds up to 100Mbps with unlimited data usage. The Company will use a combination of microwave and fiberoptic middle mile backhaul between sites serving access to the customer premises and its datacenters. Fiberoptic backhaul will be used to interconnect to a key site and provide transport to Mercury's datacenters.

Mercury will provide broadband services to a total of 1,280 locations including 1,201 homes, 70 businesses, and 9 community anchor institutions, allowing residents and businesses of these community's



access to critical telecommunications services necessary to boost education, public health and safety, and economic prosperity. In the spirit of conquering the digital divide in rural Michigan, Mercury Wireless respectfully submits this application for funding consideration to the Connecting Michigan Communities Grant Program.

Mercury Wireless is applying for funding to provide service to 1,280 unserved locations in Michigan under the Connecting Michigan Communities Grant Program. Eligible service areas identified in the census block map below include census blocks without at least (1) provider providing broadband service within the census block, or a delineated area within a census block without at least (1) provider providing broadband service. Census block locations for this project either partially or wholly underserved are in Barry and Kalamazoo County. Mercury Wireless will provide service levels up to 1,000Mbps DL x 500Mbps UL with sub 100ms latency for fiber with an oversubscription ratio of **Mathematical Service**. Additionally, Mercury will provide service levels of up to 100Mbps DL x 20Mbps UL with sub 100ms latency for wireless with an oversubscription ratio of **Mathematical Service**.

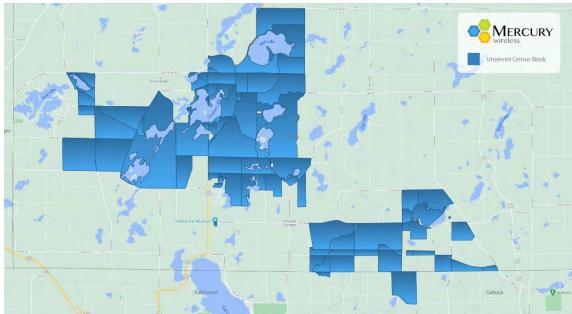


Figure 1: Unserved Census Block Map



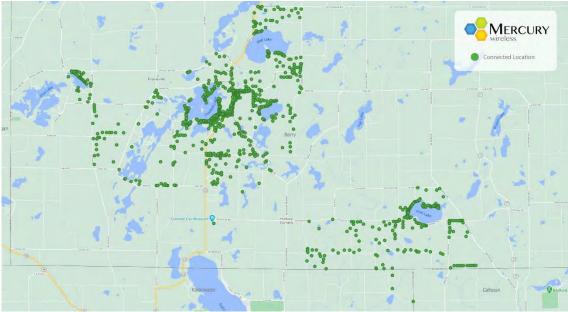


Figure 2: Connected Locations

The unserved census block locations identified by Mercury are in geographically similar areas for which the Company has been provisionally awarded funding by the FCC through Auction 904: Rural Digital Opportunity Fund. Funding from the CMIC Grant Program will allow the Company to continue extending its infrastructure projects in Barry and Kalamazoo county to include more access sites and connect more underserved communities. More information about the FCC's Rural Digital Opportunity Fund initiative can be found here: <a href="https://www.fcc.gov/auction/904">https://www.fcc.gov/auction/904</a>.

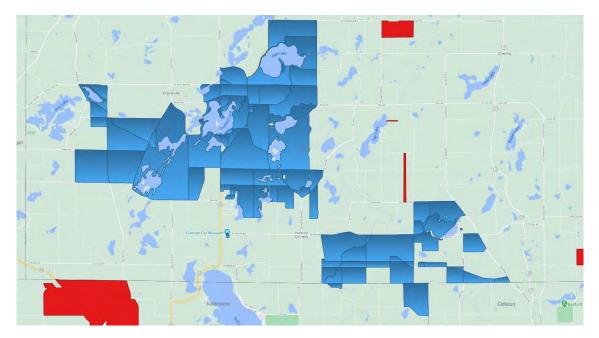


Figure 3: Comparison of Proposed Funding Service Area



Mercury Wireless is proposing the installation of 14.4 miles of fiber optic broadband cabling to support fiber-to-the-premises (FTTP) connections to 568 residential, business, and community anchor institution locations in and surrounding Delton. Additionally, Mercury proposes the construction of 7 wireless access sites to extend fiber-optic network capacity to an additional 712 residential, business, and community anchor institution locations using carrier class LTE-A wireless technologies. *Mercury Connects Delton* will provide broadband services to a total of 1,280 locations including 1,201 homes, 70 businesses, and 9 community anchor institutions, allowing residents and businesses of these community's access to critical telecommunications services necessary to boost education, public health and safety, and economic prosperity.

#### Fiber Optic Network Architecture

Mercury Wireless will use a Passive Optical Network (PON) architecture, which relies on optical cables to deliver symmetrical gigabit speeds to customer premises. PON is a point-to-multipoint access network. Its main characteristic is the use of passive splitters in the fiber distribution network, enabling one single feeding fiber from the provider to serve many homes and small businesses. PONs offer up to a 1:128 ratio on a single fiber. PONs also provide low-cost solutions to adding users through splitters, which make PON's desirable in populated areas.

A PON network is capable of transmitting Ethernet, time-division multiplexing (TDM), as well as ATM traffic. A PON consists of Optical Line Terminals (OLT), Optical Network Terminal (ONT), and a splitter. The splitter will divide the signal when needed. The OLT takes in all the optical signals from the beams of light from ONTs and will convert it to an electrical signal. An ONT connects to end-users and will send their signals back to the OLT. A PON network can reach up to 20 km and provide service up to 128 end users. PON utilizes both upstream and downstream data using Optical Wavelength Division Multiplexing (WDM).

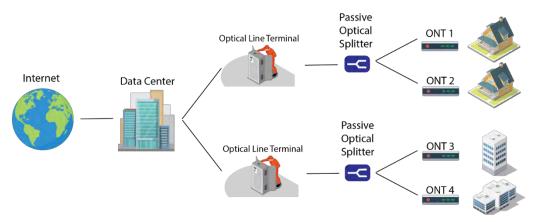


Figure 4: Gigabit Passive Optical Network Overview

A time division multiple access (TDMA) format is used in the PON architecture to designate bandwidths to each ONT. The ONT converts optical signals transmitted via fiber to electrical signals. These signals are then sent to individual subscribers. ONT's can send, aggregate, and groom different types of data coming from the customer and sending it upstream to the OLT. OLTs are equipment integrating L2 and L3 switch functions in a PON system. OLTs support bandwidth allocation that allows making smooth delivery of data float to the OLT, which usually arrives in bursts from the customer. ONTs can be connected by various methods and cable types, like twisted-pair copper wire, coaxial cable, optical fiber, or Wi-Fi.

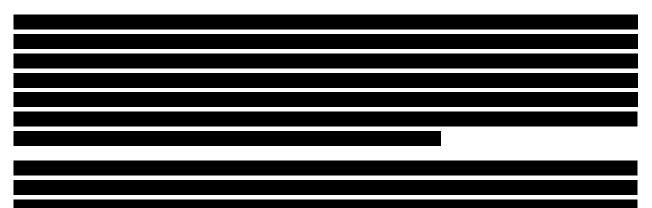


A single-mode optical fiber coming from a central location runs into a passive optical power splitter located near the end-user's locations. The optical splitter will then divide power into separate paths, which can range from two to one hundred twenty-eight. From the optical splitter, different single-mode fiber strands will run directly to the end user's home, business, or school. This transmission can reach up to 20 kilometers starting from the central location running to the user.

GPON has a downstream capacity of 2.488 Gbps and an upstream capacity of 1.244 Gbps that is shared among users. Encryption is used to keep each user's data secure and private from other users. For FTTH, Mercury Wireless will deliver a Gigabit Passive Optical Network (GPON). Although there are other technologies that could provide fiber to the home, passive optical networks (PONs) like GPON are generally considered the strongest candidate for widespread deployments.

#### Fiber Network Design for Mercury Connects Delton

The fiber design for the Mercury Connects Delton project will prefer cable burial as opposed to aerial fiber in all areas connected for this project. A tower site located near Pleasant Lake at coordinates will serve as the 'central office' (CO) location for fiber interconnect. Backhaul transport will be terminated at the tower site to a Mercury enclosure to provide bandwidth for the subscriber network, the wireless network, and primary transport to the rest of the Mercury Network. For redundancy, Mercury proposes terminating two ten-gigabit fiber circuits from two different carriers to ensure uptime and availability for the fiber and wireless networks.



A high-level diagram below outlines primary feeder cable paths, distribution cable paths, and drop locations for the locations specified in our grant application. Additionally, the diagram reflects the CO location and addresses connected. A detailed network diagram is provided in Attachment\_2.kml.





Figure 5: High Level Fiber Network Diagram

**High-Level Fiber BOM** 





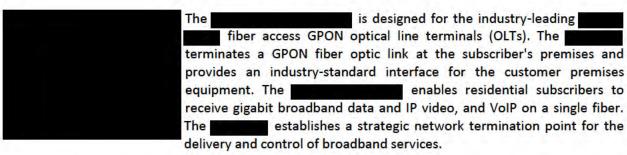
#### Middle Mile/Backhaul

Mercury Wireless partners with existing fiber vendors, including but not limited to

to provide fiber-optic transport between its access sites and data centers. These links will be strategically located at key locations and driven primarily by network utilization. For each FTTP deployment, the Company will terminate fiber at a local Point of Presence (PoP), which will then tie into a DDT.

#### Last Mile Technology

Last-mile connectivity will be provided using buried fiber, which will terminate to each customer location. Termination will occur at a PON terminal located inside or outside the customer premises. A standard CAT5e cable is then used to connect each ONT to the customer's wireless router or switch for distribution inside the home or business. For this project, the Company has selected **set of the set of t** 



With the **second second second** 

The Company has selected the **sector of** modular Optical Line Terminal system for middle mile transport between. The delivers low-to-high density GPON, point-to-point GE / Active Ethernet, and vectored VDSL2 services to central offices or to remote cabinets. This flexibility ensures that service providers can focus on deploying the capacity needed as they grow.



Figure 7: Calix OLT

The modular OLT system with a wire-speed Ethernet architecture supports delivery of a full 2.5 Gbps to every GPON port, the modular of a full 2.5 Gbps to every GPON port, the modular cards provide capacity to meet the requirements of current and future needs for business and residential services. Multiple systems can be linked together using industry standard 10GE SFP+ copper cables resulting in a very high-density, high bandwidth configuration of over 2500 potential subscriber endpoints



Mercury Wireless Indiana, LLC 6004 Highview Drive, Suite B Fort Wayne, IN 46818

#### in a 10RU space (up to 1:64 split).

#### **Internet Access**

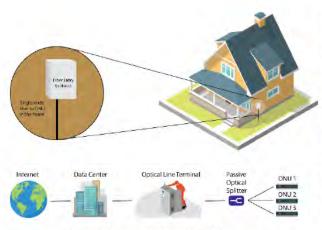


Figure 8: In Home Connection Diagram

A Mercury Wireless Field Services Technician will install all subscribers. The fiber cable is run from each Optical Line Terminal and split across a local area with a passive optical splitter to each subscriber location, terminated at the Optical Network Unit (ONT). Fiber may be provided to the premises through suspended or buried fiber. From the ONT, a standard CAT5e cable will be run to the customer's wireless router or switch. The Company will retain ownership of the ONT, the power supply, and will continue to provide support and maintenance for these devices as needed.

A Mercury Wireless Field Services Technician will install all voice service equipment. Each ONT will

have at least 1 FXS port for digital voice to serve as an Analog Telephone Adapter (ATA). The ATA can connect traditional analog telephones with Mercury's VoIP service. The ATA will connect to the subscriber's existing home phones using a regular CAT3 cable. The ATA will then connect using a CAT5e cable to the subscriber's router. The Company will retain ownership of the ATA, the power supply, and will continue to provide support and maintenance.

#### Subscriber Equipment



Each Mercury Wireless subscriber will be connected using a 1-Port Gigabit PON Terminal (also known as an Optical Network Unit, or ONT). Each terminal complies with ITU G.984.1, ITU G.984.2, ITU G.984.3, and ITU G.984.4, which provides comprehensive GPON network compatibility. Downstream rates of up to 2.488 Gbps and upstream rates up to 1.244 Gbps will be supported by the ONT, which will meet the requirement of 1 Gbps downlink and 500 Mbps uplink for gigabit connectivity. Each PON terminal will support the ONT Management Control Interface for remote

management. An Ethernet connection will be used to connect the ONT and the subscriber's Wi-Fi router, which will distribute connectivity to the rest of the premises.

The PON will also provide Voice-over-IP (VoIP) using built in FXS ports. VoIP also referred to as IP Telephony, is a method of technologies for the delivery of voice communications over Internet Protocol (IP) networks, such as the Internet. SIP is a signaling protocol used for initiating, maintaining, and terminating real-time voice sessions. Residential subscribers will be connected using a PON terminal and business subscribers will be connected using SIP phones.



#### **Wireless Network Architecture**

Mercury Wireless will utilize fixed-wireless Long-Term Evolution-Advanced (LTE-A) technology operating in the Citizens Broadband Radio Service (CBRS) band of radio frequencies. LTE-A is a mobile communication standard and significant enhancement of the Long-Term Evolution (LTE) standard. The platform has been adapted for use in the fixed-wireless telecommunication space leveraging the CBRS band using a Spectrum Access System (SAS) for dynamic spectrum management. Three technologies leveraged in the LTE-Advanced toolkit allow the Company to construct a network capable of providing service levels of up to 100 Mbps downstream by 20 Mbps upstream with less than 100ms latency: carrier aggregation, 4x4 MIMO, and 256QAM modulation in the downlink. When used together, and with sufficient aggregated bandwidth, these technologies can deliver maximum peak downlink speeds approaching, or even exceeding, 1Gbit/s. The LTE specification supports scalable carrier bandwidths from 1.4 MHz to 20 MHz, in addition to supporting frequency division duplexing (FDD) and time-division duplexing (TDD). LTE technology also supports seamless handover for voice and data services.

Citizens Broadband Radio Service is a 150 MHz wide broadcast band of the 3.5 GHz band (3550 MHz to 3700 MHz), which is regulated by the FCC with commercial operations beginning in January 2020. CBRS combines aspects of unlicensed, shared, and licensed spectrum using a tiered spectrum priority system. A Spectrum Access System (SAS) is an automated frequency coordinator that manages spectrum sharing on a dynamic, as-needed basis. Mercury Wireless has partnered with Google as its primary SAS vendor. SAS vendors provide paid services that manage information for all users accessing the SAS.

There are three tiers of spectrum access in the CBRS band: Incumbent, Priority Access License, and General Authorized Access. Incumbent access is designated for users such as the Department of Defense, U.S. naval radar, and incumbent RX only earth satellite stations. These locations are well known and only require a fraction of the available band to transmit. Priority Access Licensees in the CBRS band are entities that have purchased PAL licenses, which are limited to specific geographic areas and only allowed to transmit on a limited portion of the 150 MHz band. The remaining CBRS users are General Authorized Access (GAA). Mercury Wireless intends to operate in the GAA portion of the CBRS band (3550 MHz to 3700 MHz).

#### Wireless Design for Mercury Connects Delton

The *Mercury Connects Delton* project proposes the construction of 7 wireless access sites to service areas not connected by fiber. Each of Mercury's access sites will be capable of delivering up to through its access layer servicing last mile connections. Each access site will be interconnected with an upgradable wireless backhaul capable of supporting up to during the initial project deployment. This will be accomplished utilizing either licensed or unlicensed spectrum. Access sites are strategically located to service the addresses identified in this application and provide wireless coverage availability to all areas. Mercury intends to collocate on existing sites owned and operated by its telecommunication's real estate partners

establish new relationships with

. Mercury intends to to support additional

deployments. If infrastructure in a location is deemed inadequate, Mercury will work with the local communities to leverage existing structures for small cell deployments, or erect new sites to meet the project's needs.



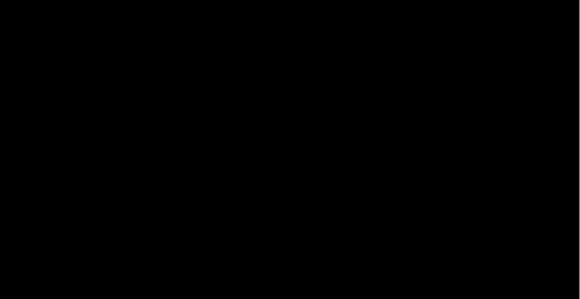


Figure 10: Wireless Network Overview

The proposed wireless network will be capable of connecting 712 of the 1,280 addresses not connected via fiber to the premises. To minimize RF bleed into served areas Mercury will sectorize the wireless access sites to include coverage for only the beamwidths and azimuths required to connect the underserved locations identified in our application for funding. A summary of the subscriber access sites and locations passed is below. A detailed network diagram is provided in Attachment\_2.kml.



Figure 11: Wireless Locations Passed

#### Middle Mile Architecture and Technologies (Backhaul/Transport)

Mercury Wireless will use a combination of microwave and fiberoptic backhaul between sites serving access to the customer premises and interconnecting its datacenters. The Company has selected



Networks as its primary microwave backhaul vendor for licensed links and flagship deployments. Mercury will use **second second s** 

provides high-capacity microwave Ethernet and TDM wireless backhaul to service providers and private businesses. Established in 1996 under the name

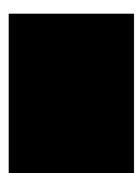
designs and manufactures high-capacity communication systems for wireless backhaul, addressing the segment of the provider market that connects a typical tower site to an operator's core network. provides wireless devices based on microwave with speeds ranging from 5Mbps up to 2Gbps per radio channel. Ceragon has led the wireless backhaul industry for over 20 years, and their solutions are deployed by more than 460 service providers in 130 different countries.

The **series** backhaul can provide speeds up to 2 Gbps radio capacity over a single 60MHz channel between access sites. It can operate in frequencies between 6 GHz and 42 GHz, allowing Mercury the flexibility to select the band best suited for each deployment. The **series** is highly versatile, compact, and utilized in numerous network deployment scenarios from aggregation sites, small cell back-haul, LTE, LTE-Advanced Pro, and 5G networks. The **serves** the security and availability requirements of mission-critical networks with its enhanced feature set that provides physical security, traffic encryption, anti-malware, identity management, centralized authentication, event logging, and secure product architecture and development. It provides the highest radio capacity and spectral efficiency in any condition and any frequency channel size. Utilizing this platform as the primary transport

for middle-mile infrastructure and interconnectivity between sites, Mercury can continue to develop and scale the network as newer technologies such as 5G emerge, allowing for rapid deployment and upgradability to the Company's access layer infrastructure.

, so the global technology leader in wireless broadband solutions, enabling service providers to connect dense, urban, and hard-to-reach rural homes at a fraction of the cost of fiber. The access, backhaul, and client solutions are deployed in a hybrid-fiber-wireless architecture, and engineered for both point-to-point and point-to-multipoint connections, across a variety of diverse applications including residential and business high-speed internet access, surveillance, public safety, education, and hospitality networking technology delivers unprecedented levels of costeffective spectral efficiency, allowing scarce spectrum to be concurrently and reliably shared across networks. The leading vendor of 4G/5G wireless densification solutions.

The **backhaul** radio is designed for the modern Internet era, adapting instantly to variable upstream and downstream bandwidth requirements. The **back** fiber-ready with the addition of an SFP module which provides gigabit fiber speeds. The **back** also comes with a standard gigabit Power-over-Ethernet connection. A single can support an entire 10.0–11.7 GHz band, maximizing your ability to find a clear, licensable channel. With up to 1.5 Gbps aggregate speed and under 1ms latency, the has the lowest cost per Mpbs in the industry with link distances over 100 km.



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#### Last Mile (Subscriber Access)

LTE technology operating in the CBRS band will provide subscriber access to all locations connected to Mercury Wireless' deployment. For this project, the Company has selected as its primary eNodeB vendor. Targeted coverage of user's homes is required, with bandwidth demand typically much higher than typical mobile users. Support offers an LTE-Advanced solution tailored to address the rural challenge, with superior performance. eNodeBs help push small cells closer to where they are needed providing a "Targeted Service" and offering much higher performance.

will allow the Company to select the beam azimuth to optimize link conditions easily. As the network grows, densification will be easily achieved and automatically maintained using



Figure 14: Targeted Network Coverage

which not only mitigate interference but also

controls each SBA's beam azimuth automatically to optimize the network without any truck-rolls. Additionally, smaller coverage areas ensure that spectrum is easily reused across the deployment, providing an effective throughput an order of magnitude better than typical Macro implementations.

is a multi-award-winning 4G & 5G network densification solution provider. Established originally in 1992 as became a standalone company in 1998 and today has more than 1000 customers in over 100 countries around the world. The world has an expansive product portfolio of indoor and outdoor, compact Femto, Pico, Micro, and Macro base stations. The perfect tool kit to exploit the full potential of technologies such as mmWave, Sub 6GHz, Massive MIMO, and open V-RAN architectures. As well as an industry-leading fixed wireless access and backhaul solution portfolio for PTP and PTMP applications.

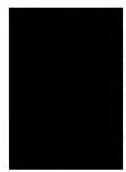
also addresses non-mobile carrier and private network deployment, including the needs of fixed Internet Service Providers and several vertical market segments, including Connected Automated Vehicles (CAV's), Air-to-Ground in-flight connectivity, Smart Grids, Public Safety, Transportation and Oil & Gas. Airspan has been at the forefront of breakthrough RAN solutions and technologies and has deep in-house expertise in LTE and LTE-Advanced, OFDMA, Wi-Fi, and VoIP. Can exploit synergies and come up with innovative products and solutions that closely integrate these technologies in the most beneficial ways for customers. Is also looking to the future with the development of solutions that combine small cells with Gbit/s backhaul and Virtualization, which will be the basis of our 5G products and solutions.

For this project, the Company has selected **Constant and Selected Constant and Selected Constant**. Product line is a range of carrier-class LTE (FDD or TDD) outdoor small cells with an integrated wireline backhaul connection. It supports 3GPP's Long Term Evolution (LTE) eNodeB specifications, providing high-speed data, mobility, Voice over LTE, and broadcast/multicast services to meet the demands of the LTE fixed and Mobile Carriers. AirSpeed can be installed on traditional tower sites, or on existing street furniture (lamp posts or utility poles) which are either OPEX free, or have nominal on-going expenses, thus avoiding the



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recurring costs associated with a traditional Macro site acquisition.



is an LTE (FDD or TDD) outdoor small cell with a wireless backhaul connection and is used where wireline backhaul is not available or not feasible. It can be mounted on walls and poles. **The second second** is composed of an eNB for access, and a standard high-performance UE relay for wireless backhaul. Instead of connecting to the EPC via wireline backhaul, the eNB is connected directly to the UE relay, and the UE relay is connected via a standard LTE wireless connection to the Donor eNB.

wireless backhaul connection and is used where wireline backhaul is not available or not feasible. It can be mounted on

walls and poles. **Exercise** is composed of an eNB for access, and a standard highperformance UE relay for wireless backhaul. Instead of connecting to the EPC via wireline backhaul, the eNB is connected directly to the UE relay, and the UE relay is connected via a standard LTE wireless connection to the Donor eNB.





Figure 17: LTE Connection Diagram

A Mercury Wireless Field Services Technician will install all subscribers. An outdoor LTE UE will be mounted to the outside of the subscriber's home and aligned with a nearby access site. A CAT5e cable is run from the UE to a ground block and surge protector located on the outside of the subscriber's home, near the common ground for the house. A second CAT5e cable will be run from the ground block to a power over ethernet (PoE) adapter. The PoE will be capable of powering the UE over the CAT5e cable eliminating the need for a separate power cable. From the PoE, a third CAT5e cable will connect to the subscriber's router. The Company will retain ownership of the

UE, the power supply, and will continue to provide support and maintenance for these devices as needed.

A Mercury Wireless Field Services Technician will install all voice service equipment. From the PoE, a CAT5e cable is connected to a VoIP analog telephone adapter (ATA). The ATA can connect traditional analog telephones with Mercury's VoIP service. The ATA will connect to the subscriber's existing home phones using a regular CAT3 cable. The ATA will then connect using a CAT5e cable to the subscriber's router. The Company will retain ownership of the ATA, the power supply, and will continue to provide support and maintenance.



Figure 18: In Home Connection Diagram



#### Subscriber Equipment

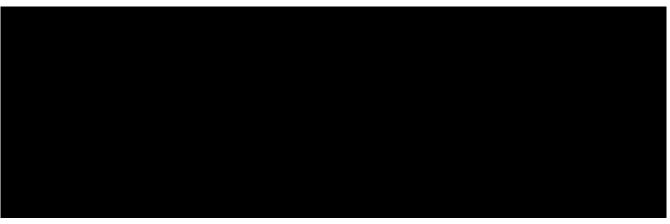
Each Mercury Wireless subscriber will be connected using either a Category LTE UE. The LTE specification provides downlink peak rates of 600 Mbps, uplink peak rates of 100 Mbps, and QoS provisions permitting transfer latency of fewer than five milliseconds. The LTE specification supports scalable carrier bandwidths from 1.4 MHz to 20 MHz, in addition to supporting frequency division duplexing (FDD) and time-division duplexing (TDD). LTE technology also supports seamless handover for voice and data services. Subscriber UEs will be sourced from multiple vendors, including

and Session initiated Protocol (SIP) with on-prem hosted PBX solution. VoIP, also referred to as IP Telephony, is a method of technologies for the delivery of voice communications over Internet Protocol (IP) networks, such

as the Internet. SIP is a signaling protocol used for initiating, maintaining, and terminating real-time voice sessions. Residential subscribers will be

connected using a ATA, and business subscribers will be connected using phones.

#### Spectrum Access Summary



Mercury Wireless Inc. will utilize fixed-wireless long-term evolution (LTE) technology operating in the Citizens Broadband Radio Service (CBRS) band of radio frequencies. LTE is a standard for wireless broadband communication initially developed for mobile devices and data terminals and recently adapted for use in fixed-wireless applications. The LTE specification provides downlink peak rates of 600 Mbps, uplink peak rates of 100 Mbps, and QoS provisions permitting transfer latency of fewer than five milliseconds. The LTE specification supports scalable carrier bandwidths from 1.4 MHz to 20 MHz, in addition to supporting frequency division duplexing (FDD) and time-division duplexing (TDD). LTE technology also supports seamless handover for voice and data services.

Citizens Broadband Radio Service is a 150 MHz wide broadcast band of the 3.5 GHz band (3550 MHz to 3700 MHz), which is regulated by the FCC with commercial operations beginning in January 2020. CBRS

SIP



combines aspects of unlicensed, shared, and licensed spectrum using a tiered spectrum priority system. A Spectrum Access System (SAS) is an automated frequency coordinator that manages spectrum sharing on a dynamic, as-needed basis. For this project, Mercury Wireless has partnered with Google as its primary SAS vendor. SAS vendors provide paid services that manage information for all users accessing the SAS.

There are three tiers of spectrum access in the CBRS band: Incumbent, Priority Access License, and General Authorized Access. Incumbent access is designated for users such as the Department of Defense, U.S. naval radar, and incumbent RX only earth satellite stations. These locations are well known and only require a fraction of the available band to transmit. Priority Access Licensees in the CBRS band are entities that have purchased PAL licenses, which are limited to specific geographic areas and only allowed to transmit on a limited portion of the 150 MHz band. The remaining CBRS users are General Authorized Access (GAA). Mercury Wireless intends to operate in the GAA portion of the CBRS band (3550 MHz to 3700 MHz).

The Company will use a combination of microwave and fiberoptic backhaul between sites serving access to the customer premises and interconnecting its datacenters. While the Company utilizes licensed spectrum for microwave backhaul where possible, it may utilize unlicensed bands to complete its network construction. Licenses for spectrum used in the microwave layer will be obtained later and will likely vary by location and spectrum availability. The Company partners with existing vendors, including

to provide fiber-optic transport between its access sites and data centers. These links will be strategically located at key sites and driven primarily by network utilization.

## Network Management

Infrastructure for internet and voice services is hosted at the Company's datacenter located The collocation facility offers secure access with redundancies for fiber termination, back-up power systems, and temperature control systems, promoting uptime and availability. The collocation facility The Company operates a 2<sup>nd</sup> data center in which serves as the primary IXP and the Company's data center between . Infrastructure at all facilities is monitored 24/7/365 using standard networking protocols, including Simple Network Management Protocol (SNMP) and Internet Control Message Point (ICMP). Monitoring solutions use a combination of open-source solutions and internally developed systems to provide timely and accurate reporting of network performance and issues. The Company's Network Operations Center (NOC) responds to alerts 24/7/365 and dispatches on-call technicians as needed in the event of a network issue.

## **Network Monitoring**

Mercury Wireless has established and operates comprehensive network monitoring tools to continuously monitor the network and notify on-call technicians in the event of an emergency or network outage. Infrastructure is monitored 24/7/365 using standard networking protocols, including Simple Network Management Protocol (SNMP) and Internet Control Message Point (ICMP). Mercury Wireless's network is designed to provide redundancy, wherever feasible, especially at the Company's backbone, for use in routing traffic in emergency situations and when facilities are damaged. Mercury Wireless has a Network Operations Center ("NOC") that is staffed 24x7x365 and responds rapidly to identify potential issues and responds to outages and emergencies, including redirecting traffic. Mercury Wireless' network is engineered to have excess capacity to handle traffic spikes resulting from emergency situations. Mercury



Wireless monitors its network to respond to emergency situations and can reroute traffic to handle peak utilization spikes.

#### **Response to Emergency Situations**

Mercury Wireless has established and operates comprehensive network monitoring tools to continuously monitor the network and notify on-call technicians in the event of an emergency or network outage. In the event of an emergency or outage, technicians are dispatched 24x7x365 to address the infrastructure needs of the Company and to provide for the orderly restoration of services when necessary.

#### Back-Up Power

Mercury Wireless follows best practices that are designed to allow services to remain functional in an emergency using back-up power to ensure functionality in the event of a limited commercial power failure. Mercury Wireless deploys a combination of batteries on-site to mitigate immediate power outages and emergency generators for prolonged outages.

Mercury Wireless tests its batteries routinely, and power systems are monitored on a regular basis. Portable generators are tested regularly, and maintenance of back-up power systems is performed throughout the year.

#### **Rerouting Traffic**

Mercury Wireless's network is designed to provide redundancy, wherever feasible, especially at the Company's backbone, for use in routing traffic in emergency situations and when facilities are damaged. Mercury Wireless has a Network Operations Center ("NOC") that is staffed 24x7x365 and responds rapidly to identify potential issues and responds to outages and emergencies, including redirecting traffic.

#### **Managing Traffic Spikes**

Mercury Wireless' network is engineered to have excess capacity to handle traffic spikes resulting from emergency situations. Mercury Wireless monitors its network to respond to emergency situations and can reroute traffic to handle peak traffic spikes.

#### **Engineering Assumptions**

Certain engineering assumptions have been made throughout the initial phase of planning for the CMIC Grant Program. Those assumptions are outlined in this section.

#### **Fiber Optic Network Design Assumptions**

Access to Fiber Optic Infrastructure:

Cabling Requirements:



Underground Drop Cables:

Distribution Tier:

Drop Tier:

Latency:

The network is engineered to provide service to subscribers with a latency of less than 100ms.

**Oversubscription Ratio:** 

Subscriber Take Rate:

**Wireless Network Design Assumptions** 

Access to Tower Sites & Infrastructure:

.

Propagation Model:

Topographical Data:

Landcover Data:



Latency:

The network is engineered to provide service to subscribers with a latency of less than 100ms.

Oversubscription Ratio:

Subscriber Take Rate:

RF Propagation Prediction Model:

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## **Company Information**

Mercury Wireless Indiana is a limited liability company organized under the laws of the State of Indiana. The Company is currently headquartered at 6004 Highview Dr, Suite B, Fort Wayne, IN 46825 and the Company's telephone number is (800) 354-4915.



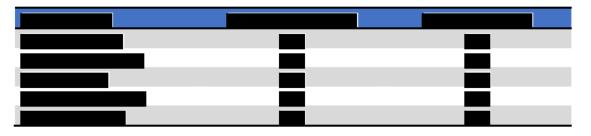
#### Attachment 10 | Evidence of Network Scalability

#### <u>Fiber</u>

Mercury Wireless will use a Passive Optical Network (PON) architecture, which relies on optical cables to deliver symmetrical gigabit speeds to customer premises. PON is a point-to-multipoint access network. Its main characteristic is the use of passive splitters in the fiber distribution network, enabling one single feeding fiber from the provider to serve multiple homes and small businesses. PONs offer up to a 1:128 ratio on a single fiber. PONs also provide low-cost solutions to adding users through splitters, which make PON's desirable in populated areas. A PON network is capable of transmitting Ethernet, time-division multiplexing (TDM), as well as ATM traffic. A PON consists of Optical Line Terminals (OLT), Optical Network Terminal (ONT), and a splitter. The splitter will divide the signal when needed. The OLT takes in all the optical signals from the beams of light from ONTs and will convert it to an electrical signal. An ONT connects to end-users and will send their signals back to the OLT. A PON network can reach up to 20 km and provide service to up to 128 end users. PON utilizes both upstream and downstream data by means of Optical Wavelength Division Multiplexing (WDM).

A single-mode optical fiber coming from a central location runs into a passive optical power splitter located near end-users locations. The optical splitter will then divide power into separate paths, which can range from two to one hundred twenty-eight. From the optical splitter, separate single-mode fiber strands will run directly to the end user's home, business, or school. This transmission can reach up to 20 kilometers starting from the central location running to the user. PON has a downstream capacity of 2.488 Gbps and an upstream capacity of 1.244 Gbps that is shared among users. Encryption is used to keep each user's data secure and private from other users. Mercury Wireless will deliver a Gigabit Passive Optical Network (GPON) that has engineered the network, assuming an oversubscription rate of **mercur**. OLT ports will be continuously monitored to ensure they are not oversubscribed. In the event of overutilization, users will be moved to different OLT ports, thereby alleviating network congestion. The Company has also designed the network assuming a service level subscription of 1000 Mbps downstream by 1000 Mbps upstream with less than 100-millisecond latency.

Bandwidth utilization will be continually monitored for a trigger event, defined in the table below. Once either Average Utilization or Peak Utilization thresholds have been met or exceeded, the Company will perform a review of the existing network infrastructure and capabilities to determine what changes need to be made to address capacity planning needs.



For scalability, the PON architecture addresses current and future bandwidth needs by being forward compatible with future PON technologies including NG PON 2 or 10G-PON (also known as XG-PON) which will deliver upstream and downstream (symmetrical) speeds of up to 10 Gbit/s. This will ensure the initial investment in FTTH infrastructure will service future subscriber needs for decades into the future.



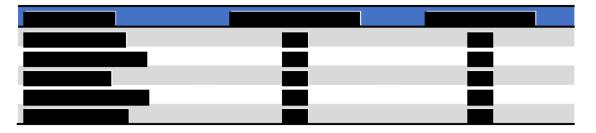
#### <u>Wireless</u>

Subscriber access sites are engineered to provide 100Mbps service levels using Long-Term Evolution Advanced (LTE-Advanced) wireless technologies. LTE-Advanced is a mobile communication standard and major enhancement of the Long-Term Evolution (LTE) standard, which has been adapted for use in the fixed-wireless telecommunication space leveraging Citizens Broadband Radio Service (CBRS) spectrum using a Spectrum Access System (SAS) for dynamic spectrum management. Three technologies leveraged in the LTE-Advanced toolkit will allow the Company to construct a network capable of providing service levels of up to 100 Mbps downstream by 20 Mbps upstream with less than 100ms latency: carrier aggregation, 4x4 MIMO, and 256QAM modulation in the downlink.

Carrier aggregation is a technique used in wireless communication to increase the data rate per user, whereby multiple frequency blocks are assigned to the same user. The maximum possible data rate per user is increased; the more frequency blocks are assigned to a user. The sum data rate of a cell is increased as well because of the better resource utilization. 4x4 MIMO is a method for multiplying the capacity of a radio link using multiple transmission and receiving antennas to exploit multipath propagation. 256QAM refers to quadrature amplitude modulation and is the modulation scheme used to transmit digital telecommunications. When used together, and with sufficient aggregated bandwidth, these technologies can deliver maximum peak downlink speeds approaching, or even exceeding, 1Gbit/s. Each of the subscriber access sites will be capable of delivering a minimum of 1 Gbps throughput over its access layer. Access layer aggregate throughput levels are achieved using a hybrid fiber & fixed-wireless network. Fiber is terminated at key locations across the network and is then distributed over the air using microwave technologies.

Bandwidth and latency will be measured to the customer premises on an ongoing basis using standard network protocols. The Company will use a combination of microwave and fiber-optic middle-mile backhaul between sites serving access to the customer premises and its datacenters. Mercury Wireless has engineered the network assuming an oversubscription rate of the network wireless has also designed the network assuming a service level subscription of 100 Mbps downstream by 20 Mbps upstream with less than 100-millisecond latency.

Bandwidth utilization will be continually monitored for a trigger event, defined in the table below. Once either Average Utilization or Peak Utilization thresholds have been met or exceeded, the Company will perform a review of the existing network infrastructure and capabilities to determine what changes need to be made to address capacity planning needs.



For scalability, the Company will utilize a small cell offload strategy. As network demand increases, the Company will move clusters of subscribers to smaller, strategically located sites as the load on its primary



sites increases. This will enable the Company to maintain required service levels.

Mercury Wireless' network is designed to ensure forward compatibility with 5G technologies to provide future throughput improvements to the network. Some key characteristics of 5G networks include:

- More capacity per device with connections estimated to exceed 1Gbps
- Support for more simultaneous device connections
- Higher capacity density

## Network Management

Infrastructure for internet and voice services is hosted at the Company's datacenter located in a collocation facility in **Example 1**. The collocation center offers secure facilities with redundancies for fiber termination, back-up power systems, and temperature control systems, promoting uptime and availability. The collocation facility

primary IXP between and the Company's data center in **Example 1**. Infrastructure at all facilities is monitored 24/7/365 using standard networking protocols, including Simple Network Management Protocol (SNMP) and Internet Control Message Point (ICMP). Monitoring solutions use a combination of open-source solutions and internally developed systems to provide timely and accurate reporting of network performance and issues. The Company's Network Operations Center (NOC) responds to alerts 24/7/365 and dispatches on-call technicians as needed in the event of a network issue.

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Mercury Wireless tests its batteries routinely, and power systems are monitored on a regular basis. Portable generators are tested regularly, and maintenance of back-up power systems is performed throughout the year.

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# **Managing Traffic Spikes**

Mercury Wireless' network is engineered to have excess capacity to handle traffic spikes resulting from emergency situations. Mercury Wireless monitors its network to respond to emergency situations and can reroute traffic to handle peak traffic spikes.



# Attachment 11 | Additional Evidence of Project Readiness

## **Company History**

Mercury Wireless was founded in Topeka, KS, in September of 2007 after recognizing a need for broadband Internet access in rural America and seeing a lack of viable options. A hybrid approach to serving these "last-mile" customers was developed by extending high capacity fiberoptic networks with the range, reliability, and flexibility of carrier-class wireless technologies. Mercury connected its first subscriber in December of 2007.

- 2007 Mercury Wireless is founded, connects its first subscriber.
- 2008 Mercury Wireless acquires Trailnet, a small ISP based in Carbondale, KS, and successfully integrates the infrastructure into its network.
- 2009 Mercury Wireless begins the development of Ceres. The program will eventually evolve into a whole company operating system that integrates all departments, information, and functions into a single platform.
- 2010 Mercury Wireless moves to its next generation of wireless technology, 4G WiMAX. Deployments begin in Northeast Kansas, and maximum speeds increase to 7 Mbps.
- 2012 Mercury Wireless acquires Radius Broadband, a WISP operating in DeSoto, Kansas. The infrastructure and existing subscriber base are integrated into Mercury Wireless.
- 2013 Mercury Wireless launches its 2<sup>nd</sup> network based in Fort Wayne, Indiana. Initial deployments are completed with WiMAX technologies.
- 2014 Mercury Wireless acquires PureWave Networks, an equipment manufacturer specializing in WiMAX technologies.
- 2015 Mercury Wireless acquires Sonic Broadband, a WISP based in Emporia, Kansas. The infrastructure and existing customer base are integrated into Mercury Wireless.
- 2016 Mercury Wireless acquires WOW!, a WISP based in Lawrence, Kansas. The infrastructure and customer base are integrated into Mercury Wireless.
- 2017 Mercury Wireless moved to its next generation of wireless technology, dubbed "XL," increasing maximum speeds to 30 Mbps.
- 2018 Mercury Wireless participates in the Connect America Fund Phase II Auction 903 and is awarded \$4.6M in funding to connect underserved subscribers in Indiana, Kansas, Michigan, Missouri, and Ohio.
- 2019 Mercury Wireless begins testing LTE based technologies operating in the Citizens Broadband Radio Service band (CBRS). Maximum speeds increased to 100 Mbps.
- 2020 Mercury Wireless participates in the Rural Digital Opportunity Fund Auction 904 and is provisionally awarded support to construct services in Michigan. Additionally, Mercury begins its initial fiber-optic projects in Kansas.

Today, Mercury Wireless provides service to thousands of subscribers, including residential, business, and community anchor institutions. Since its inception, the Company has continued to expand its network coverage and increase the services available to its subscribers. For over ten years, the Company has engineered, deployed, and supported carrier-class wireless networks to provide fast, reliable, unlimited, and affordable Internet access to connect and empower the communities we serve.



## **Organizational Capacity**

Mercury has demonstrated its ability to design, develop, and implement large scale deployments as well as an ability to serve its subscriber base, successfully operating a decentralized organizational structure, which has given it the ability to manage a large footprint across several states. The Company is led by a veteran management team with over 50 years of combined telecommunications experience, supported by Directors and Managers operating in Kansas and Indiana.

## **Management Team**

# Garrett R. Wiseman – Chief Executive Officer

Provide inspired leadership company-wide



- High-level decisions about policy and strategy
- Develop and implement strategic plans
- Develop the Company's culture and overall company vision
- Oversee the Company's fiscal activity, including budgeting, reporting, and auditing
- Work with the executive board to determine a plan for short and long-term goals
- Build alliances and partnerships with other organizations

Oversee day-to-day performance of the network

## **Blake Wiseman – Chief Commercial Officer**

Oversee marketing, sales, product development, and customer service 

Oversee field services, field operations, and network operations



- Assess current and future network needs
- Work with the chief executive officer, chief financial officer, and director of operations to implement and deploy network segments
- Ensure the integrated commercial success of the Company

## Angela Tenbrink – C.P.A., Chief Financial Officer

- Monitor internal controls
  - Manage financial transactions
  - Streamline accounting functions
  - Develop plans for economic growth and evaluate and manage risk
  - Coordinate audit processes
  - Forecast cash flows, related borrowing needs, and funds available for investment
  - Maintain banking relationships and ensure funds are available to meet on-going operational and capital investments





## Matthew Sams – Chief of Staff



- Oversee strategic business initiatives from development through execution
- Assist and communicate with managers in decision-making and program management
- Review, design, and execute improvements to organizational structure
- Oversee daily operations through collaboration with senior management
- Oversee regulatory compliance with federal, state, and county-level regulations

# Darryl Cain – P.E., Chief Operating Officer



- Manage site deployment initiatives overseeing design, construction, execution, and quality assurance meeting or exceeding build deadlines
- Set goals, monitor work, and evaluate results of the Field Services team to ensure that objectives and operating requirements are met and in line with the needs of the organization
- Recruit, develop, coach, and evaluate field services team members focusing on long-term retention for maximum effectiveness
- Manage technician schedules and ensure overtime requirements are in line with payroll budgets
- Promote quality assurance by developing internal processes and procedures to improve training and knowledge

## **Partnerships**

Since Mercury began operations over 13 years ago, it has formed numerous professional relationships and partnerships that have enabled its success. These relationships include strategic partnerships with other telecommunications companies, vertical real estate companies for infrastructure, strong vendor relationships including fiber-optic transport and telecommunications manufacturing, and partnerships with industry-leading financial institutions and CPA firms.

## **Construction Partnerships**

Mercury Wireless has numerous construction crews managed by our Field Operations teams, including teams being developed in **Sector 10**, and surrounding satellite locations to support operations for Connecting Michigan Communities, FCC Auction 903 Connect America Fund Phase II, and FCC Auction 904 Rural Digital Opportunity Fund. To assist as needed for the addition of construction capacity, Mercury has also partnered with **Sector 10** and other turn-key wireless communication site installers. **Mercure 10** has over 20 years' experience in developing and deploying fixed-wireless solutions, allowing operators to deliver fast and reliable broadband service to rural markets.

## Fiber-optic Transport

Mercury has numerous long-standing relationships with fiber-optic transport providers and a proven ability to establish new vendor relationships to support deployments. These relationships include Leveraging these relationships, Mercury intends to strategically place fiber transport to support our Connecting Michigan Communities project's bandwidth and transport needs.



#### **Tower Vendors**

Mercury has strong relationships with numerous vertical real estate companies allowing it to deploy rapidly and efficiently where infrastructure is readily available. The Company's primary tower vendors are , one of the largest telecommunications tower site companies in the U.S., has approximately 40,000 sites across the county to support wireless deployments. In the U.S., and the company uses strong relationships with

, and numerous additional tower companies. As needed, Mercury will establish new vendor relationships with tower companies to support its Connecting Michigan Communities project. Where infrastructure is deemed inadequate, Mercury will establish relationships with local communities to erect additional sites to target areas of underserved rural homes.

#### Vendors

Mercury has strong relationships with its vendors. The Company sources most equipment directly from the manufacturer and bypasses the distribution chain. Where possible, the Company sources technology from multiple vendors. Below is a summary of the Company's primary electronics vendors and the role each plays in Mercury's ability to deploy telecommunications services.





Mercury uses several of Ceragon's high-capacity microwave backhaul systems including the IP-20.







Mercury Wireless Indiana, LLC 6004 Highview Drive, STE B Fort Wayne, IN 46818



#### Attachment 12 | Demonstration of Customer Interest

#### Overview

Gathering evidence of community interest and support was critical to Mercury Wireless' determination of how to structure our proposed service area and details for our grant application. As part of our efforts to determine interest, Mercury Wireless constructed a questionnaire designed to gather feedback from residents, businesses, and community anchor institutions residing in the proposed service area. This questionnaire was posted on our web page, made available to the public, and distributed using targeted advertising campaigns over social media. Additionally, targeted E-mail communication was sent to residential, business, and community anchor institution E-mail addresses. Utilizing these communication methods potential respondents were directed to the questionnaire where they could voluntarily provide information as one method of demonstrating community support. A detailed description of the questionnaire, advertising campaign, and summary of the information can be found in the following sections.

#### Questionnaire

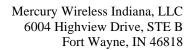
The questionnaire was designed to obtain the necessary level of information from survey respondents while also respecting the privacy needs of those filling out the questionnaire. Utilizing several resources including internally sourced contact information for community anchor institutions and stakeholder organizations, and targeted social media campaigns, potential respondents were provided with summary information about the project, a brief history of Mercury Wireless and its mission, and links to participate in the feedback initiative.

The pre-subscription questionnaire located at <u>www.mercurybroadbnad.com</u> contained 5 questions designed to determine several key pieces of information for residents in Michigan:

- Are you interested in faster Internet? – Designed to establish the basic desire for faster service in the project area.
- What is your service address? Designed to capture the customers physical address where they currently have or would be interested in obtaining telecommunications services.
- How fast is your current connection? – Designed to obtain evidence for underserved areas,

MERCURY proadband	Residential Business How It Works	
Wireless Interest Surve		
be applying for funding thr broadband access in rural bring unlimited wireless In Please share your respons Mercury to secure the fund	king to improve Internet access in your areal As ough the Connecting Michigan Communities Gr Michigan. If successful, this funding will allow I ternet access speeds of 100Mbps to your comr es to the questions below, your feedback will be fing needed for broadband improvements. Ansy demonstrate community interest, your informat	rant Program to expand Mercury Broadband to munity. e critical in allowing wers to the questions
	LAST NAME (REQUIRED):	
Please type your full address	crty (REQUIRED):	STATE (REQUIRED);
ZIP (REQUIRED):	[	
Are you a:	M ⊖other	

as well as determining where service is available at different speeds available from a drop-down menu.





- Is this address a residence, business, or farm? Designed to determine the type of address
  reported by the respondent, and as evidence for underserved locations designated as businesses
  or farms.
- Would you like us to contact you when faster service is available? Designed to determine not only the desire for faster service, but support from respondents who want to learn more when the Company deploys in the proposed area.

A targeted social media campaign through Facebook and Instagram was the main method of distribution chosen for collecting feedback. Supplimental feedback was obtained through direct E-mail campaigning efforts. The social media campaign advertised the availability of this form and invited residents to contribute voluntarily.

Advertisements were presented on mobile and desktop news feeds for Facebook and Instagram and were limited to a 10-mile radius encompassing all census blocks defined in the project summary. Aside from advertisements posting to accounts reporting an age of 18 years or order, there were no restrictions to age or demographics. Additionally, the invitation to provide feedback was distributed to businesses and community anchor institutions in the proposed service area through a direct E-mail campaign. Mercury Broadband December 22 at 2:12 PM · • • Mercury Broadband is working to improve Internet access in your areal As part of this effort we will be applying for funding through the Connecting Michigan Communities Grant Program to expand broadband access in rural Michigan. If successful, this funding will allow Mercury Broadband to bring unlimited wireless Internet access speeds of 100Mbps, and fiber speeds of 1,000Mbps to your community.



Bring High-Speed Internet To Your Community Learn More This funding will allow Mercury Broadband to bring...

The questionnaire generated many responses for the proposed service area, which were then filtered to accommodate more specific information for the services currently available to residents. The information was then focused to evaluate which users within the proposed service area reported Internet availability at less than 25 Mbps.

## **Summary of Results**

Mercury Wireless is committed to the privacy of survey respondents. In this section we will provide a summary of the campaign. The Campaign for Mercury Connects Delton, although comprehensive in its attempt to reach out to communities and request support from local stakeholders, was only successful in collecting verbal communication and social media messaging expressing support for the project.

This is attributed to a shorter campaign window compared to other projects, in addition to a holiday season during the duration of our campaign. Through direct communication with Michigan residents, feedback, and social media, Mercury believes there is clearly demonstrated need for improved broadband. We hope that in the spirit of conquering the digital divide, the Department of Technology, Management, and Budget will thoughtfully consider this evidence of community support to inform its funding and award decisions.



# Attachment 13 | Statements of Impact for Business, Entrepreneurship, and Rural Economic Development

Rural businesses face a different set of challenges than urban businesses. Isolation from population centers, difficulty in hiring and retaining skilled workers, barriers to capital access, and inadequate broadband Internet service are just several of the unique scenarios business owners face. Entrepreneurs and small businesses represent enormous potential for stimulating economic growth in rural communities. A lack of access to fast and affordable broadband can dramatically impact a business's potential for success. This disparity has increased in the wake of the COVID-19 Pandemic throughout rural America.

## **Broadbands Impact on Rural Business and Workers**

Rural small business owners are often leaders in the community. As key job creators, these businesses are critical to stimulating economic growth and development. As access to broadband Internet improves, access to distance learning and continuing education is enhanced. With more universities and educational institutions moving to distance learning to reduce the spread of COVID-19, the need for adequate broadband in rural communities and beyond is increased. These changes have highlighted that rural communities obtaining broadband access will lead to more accessible education for students. A more educated workforce will help small businesses hire and retain skilled workers to develop a labor force capable of assisting economic development in the broader community.

Access to electronic services such as E-commerce also dramatically improves a businesses' ability to succeed when faced with the challenges of operating in a rural area. E-commerce represents a growing share of the economic market, and broadband provides an opportunity to connect a business to this global market. In 2018 U.S. E-commerce sales grew to 15%, and an estimated 20% of the world's population purchase products or services online. Broadband Internet service empowers businesses to connect with potential buyers, access new markets, create additional revenue, stimulate job creation, and further boost a business's economic benefits within its community.

In the wake of COVID-19, the structure of the corporate landscape has shifted from years prior. As more businesses open opportunities for their employees to work remotely, this can translate into substantial cost savings for the individual, job opportunities, and higher income potential. Widespread rural access to broadband allows people who work from home more access to employment, allowing them to readily live and work in communities they choose without having the challenge of commuting to office locations. Many businesses can successfully employ residents in rural areas, given they have access to a sufficient broadband connection. Call centers, data processing services, graphic arts, and IT work can often be accomplished remotely. In addition to the implications of community health and safety during the COVID-19 Pandemic, allowing an employee the freedom to operate from a home office is also environmentally responsible for a community, eliminating thousands of pounds of pollutants put into the environment.

#### **Broadbands Impact on Entrepreneurship and Economic Development**

Rural development is increasingly linked to entrepreneurship. Staring a new business in a rural area can be a substantial risk-taking decision. Concerns over access to skilled labor, capital, and customer markets are determining factors between starting a business in a rural versus urban location. Broadband



connectivity helps eliminate these barriers by providing businesses the ability to access and move large amounts of data in real-time. This allows the orchestration of people, strategies, and technologies to fit an ever-changing business environment.

Rural businesses are also defined in many ways that urban businesses are not. Farming and agriculture are just one example of an industry where rapidly changing technological advances require affordable broadband access. The USDA estimates that 29% of U.S. farms have no Internet access. This is not only critical for day-to-day operations but also for the long-term viability and success of the farming community. Medical services need to move large amounts of data in real-time and require broadband services to manage patient information and customer records. Retail locations need broadband to process customer orders, financial transactions, and even customer support requests. With many businesses moving to the online marketplace during COVID-19, rural businesses are disadvantaged due to inadequate broadband access.

An educated workforce with access to employment, income, and resources supported by rural entrepreneurs can often be the catalyst to community revitalization. Encouraging and motivating entrepreneurs is essential for supporting our workforce and retaining skilled workers in our communities, increasing income potential for our residents, and keeping wages local. Investments in making affordable broadband access in these communities represent a foundational building block to enabling economic development. Without it, the gaps of inequality will continue to grow. Included with this attachment is a letter of impact from the University of Michigan. As both public and private entities continue to focus on the education, health, and safety of our communities, strategic partnerships with community anchor institutions in both the public and private sectors will continue to be critical to improving the lives of Michiganders.



# Attachment 14 | Statements of Impact for the Agricultural Community

Rural businesses are defined in many ways that urban businesses are not. Farming and agriculture are just one example of an industry where rapidly changing technological advances require affordable broadband access. The USDA estimates that 29% of U.S. farms have no Internet access. This is not only critical for day-to-day operations but also for the long-term viability and success of the farming community.

## **Challenges for Agriculture and Broadband**

The low population density in communities with a strong agricultural presence often plays an important role in a broadband providers decision to build infrastructure to serve these areas. Many telecommunications companies cannot justify the intensive capital needs to construct these services, deeming networks in these areas not worth their time. This creates a scarcity of broadband providers, stifling innovation and increasing costs to the end users for the limited services that are available. As an example, it can cost ~\$10,000 to ~\$20,000 or more per mile to lay fiber in rural areas, a cost which cannot be offset by dense housing populations or suburban neighborhoods.

#### **Impacts on Agriculture**

Agricultural technology is rapidly advancing, and so are the tools that farmers use for their day-to-day operations. Both the improvement in technology and the advanced tools require broadband Internet and large amounts of data. These tools include yield mapping, global positioning and guidance systems, and systems for soil mapping which can inform farming decisions on how much moisture and fertilizer are needed to support successful crop yields. The last few decades have also seen the introduction of precision agriculture, which uses various connected tools and systems to observe, measure, and respond to the variable factors needed to control crop yields. Precision agriculture is supported by GPS systems and unmanned aerial vehicles (drones), which when supported by broadband connectivity, can be operated by novice pilots.

Additionally, access to broadband Internet can provide significant advantages to the agricultural community including access to web-based information for agricultural inputs, the ability to electronically manage documents and permits, access to government programs such as the USDA, access to online purchasing and management of farming supplies, and access to systems that monitor livestock, crops, and irrigation systems. The economy of a community stands to benefit from the increased earnings potential provided to farmers by the access of broadband service. As the value of agricultural production increases, more U.S. dollars are channeled back to the community, county, and state.



# Attachment 15 | Statements of Impact for Community Anchor Institutions

In sparsely populated rural areas, community anchor institutions (CIAs) are a critical component to connecting residents with their local community and government, businesses and external markets, and the rest of the world. Since copper and fiber infrastructure is prohibitively expensive to build out into rural areas, these institutions often have difficulty obtaining high-speed broadband connections at affordable rates. Some CIAs benefit from government subsidy programs like USAC's E-rate program; however, these options are not available for many institutions putting them at an even more significant disadvantage. As the broadband needs of our CIAs continue to grow with the needs of the public, an economical solution is needed to service these last-mile facilities.

## **Broadbands Impact on Schools and Libraries**

It is estimated that rural schools are up to four times less likely to have access to a fiber connection. Additionally, rural schools are more likely to have slower connections and less competition to challenge broadband growth in the area. Many rural communities have moved to remote learning in response to COVID-19, causing the pandemic to further increase broadband and technology disparity between rural and urban communities. Broadband networks provide teachers and students access to several resources, including web-based curriculum, video, photo, music, and online lessons. This allows traditional and non-traditional students to participate in distance learning opportunities from any location that has a broadband connection. As more curriculum migrates to the cloud, and schools continue to use technology as a teaching tool, the bandwidth needs of schools will continue to increase into the foreseeable future.

Nearly half of all public libraries are in rural areas and face similar challenges with the lack of an affordable broadband solution. Rural libraries are a trusted public institution and are often resources heavily utilized by residents. Libraries can serve as both a resource center and often the only broadband connectivity method in underserved areas. You can frequently observe people in parking lots after hours utilizing faster Wi-Fi connections provided by libraries to file paperwork, check in with friends and relatives, or participate in distance learning opportunities. They can also serve as social meeting places for community organizations or government entities. Connecting these libraries to broadband services helps low-income households gain access to critical services in addition to providing a valuable public service to our underserved communities. Providing these connections to rural residents, educational institutions, and libraries eliminates the distance barriers presented to rural educational systems.

## **Broadbands Impact on Public Safety and Health Care**

The availability of a broadband connection is increasingly vital to the interoperability of police, fire, heath, and crisis response entities that protect the public from every day and critical situations. Such connections improve our public safety agents' responsiveness by increasing rapid communication during disasters, promoting communication with early warning systems, providing connections for remote security monitoring, and communication network backup systems. These critical communications and backup systems often need to rapidly move large amounts of data to preserve effectiveness when deployed. Wireless access helps close the cost gap for extending broadband services and enables deployments in hard-to-reach rural areas with little to no broadband infrastructure.

Over the past decade, many rural communities have seen a trend of smaller hospitals and closing. Rural hospital closures are estimated to increase further in the coming years. Immediate care facilities and



private practices have helped fill the void created by this deficiency in our health care system. However, these options are not available to all areas or individuals in remote locations. Distance and travel to these facilities can often be a barrier for citizens seeking access to health care, especially for the elderly population with limited financial resources. Broadband access can provide residents the ability to utilize telemedicine and telehealth services. These services include but are not limited to; consultation, counseling, physical and occupational therapy, home health care, and disease monitoring and management. Individuals' ability to participate in one or several of these programs will be critical to our communities' health and safety, especially those who are challenged with distance being a crucial factor in their ability to see a physician.

As part of this attachment, we have included an impact statement from the Center for Improving Patient and Population Health at the University of Michigan. Dr. Christopher Friese has provided Mercury with some insight into some of the rural health care challenges faced explicitly by Michiganders. Such challenges include the long distances rural citizens must travel to have access to basic health care and the distribution of life-saving medications. Access to physicians to obtain these prescriptions is also a unique challenge faced by all rural residents. The COVID-19 pandemic has only increased the challenges rural residents face as more communities move towards telehealth for treatment. It has become clear in recent months that the underdeveloped rural broadband infrastructure creates unique problems for rural hospitals trying to treat high-risk patients remotely. Broadband access can help close the inequalities of access to affordable health care faced by rural citizens, notably wireless networks and technologies that can be deployed to almost any location allowing ease of access to telehealth and telemedicine services.





Mercury Wireless Indiana, LLC 6004 Highview Drive, STE B Fort Wayne, IN 46818

Christopher R. Friese, RN, PhD, AOCN®, FAAN Elizabeth Tone Hosmer Professor of Nursing, Health Management and Policy Director, Center for Improving Patient and Population Health <u>cfriese@umich.edu</u> 734-647-4308

December 20, 2020

Michigan Department of Technology, Management, and Budget Center for Shared Solutions 111 South Capitol Avenue Lansing, MI 48933

Re: Connecting Michigan Communities Grant

To Whom it May Concern,

I am pleased to support the application by Mercury Wireless for the DTMB Connecting Michigan Communities Grant Program, building upon their successful FCC Connect America Fund Phase II Auction.

I lead efforts at the University of Michigan School of Nursing to advance innovations in health research and clinical care to improve health and wellbeing among rural Michiganders. In 2019, my research center led a two-day workshop to devise novel interventions to improve access to highquality care. Throughout the workshop, participants cited broadband access as the most pressing barrier to progress in advancing rural health care across Michigan.

In my conversations with Mercury Wireless leaders, their technology and their geographic target align well with our current partnerships with community and agricultural leaders. Increased highspeed, reliable broadband access in South West Michigan would greatly expand our efforts to test novel telehealth and monitoring solutions devised by our team.

In addition, several members of our team identified broadband access as an emerging social determinant of health. Within this framework, broadband access is a potential solution for long-standing inequities in health and social care among rural residents. Our interdisciplinary team would be interested in advancing some of our work in health literacy and numeracy in developing novel community outreach materials to stress the importance of broadband access for better health and novel teaching strategies to improve broadband literacy.

If awarded, we would look forward to continued discussions with Mercury Wireless to advance applications of their technology to improve health equity across rural Michigan. Thank you for your kind consideration.

Sincerely, Clothen The

Christopher R. Friese, PhD, RN Elizabeth Tone Hosmer Professor Director, Center for Improving Patient and Population Health



# Attachment 16 | Evidence of Application for a SPIN, USAC and E-rate Experience, Letters of Recommendation From E-rate Partners

Mercury Wireless Indiana, LLC.s SPIN number is 143051573. Through the USAC Schools and Libraries program the Company has partnered with educational institutions to bring improved connectivity to the communities we serve. From the request for funding process to project completion, the Company has been successfully participating in the USAC E-rate program since 2012. Mercury has completed both small and large-scale deployments including local area wired and wireless networks (internal connections and managed broadband services), district-wide digital phone system deployments, and long-range backhaul solutions for interconnecting larger district segments and deploying high-speed internet (data transmission services) across numerous districts.

It is estimated that rural schools are up to four times less likely to have access to a fiber connection. Additionally, rural schools are more likely to have slower connections and less competition to challenge broadband growth in the area. Broadband networks provide teachers and students access to several resources including web-based curriculum, video, photo, music, and online lessons. This allows traditional and non-traditional students to participate in distance learning opportunities from any location that has a broadband connection. As more curriculum migrates to the cloud and schools continue to use technology as a teaching tool, the bandwidth needs of schools will continue to increase into the foreseeable future.

Nearly half of all public libraries are in rural areas and face similar challenges with the lack of an affordable broadband solution. Rural libraries are a trusted public institution and are often resources heavily used by the public. Libraries can serve as both a resource center for rural residents and often the only method of broadband connectivity in underserved areas. You can frequently observe people in parking lots after hours utilizing the faster Wi-Fi connections provided by libraries to file paperwork, check in with friends and relatives, or participate in distance learning opportunities. They can also serve as social meeting places for community organizations or government entities. Connecting these libraries to broadband services helps low-income households gain access to critical services in addition to providing a valuable public service to our underserved communities.

Providing these connections to rural residents, educational institutions, and libraries eliminates the distance barriers presented to rural educational systems. The Company has successfully maintained its relationships with schools, libraries, and local communities while working to upgrade network infrastructure as the needs of our students and educators evolve. Included as part of this attachment for consideration by the DTMB and CMIC Grant Program are letters of support from several schools currently connected to our network. As rural communities are struggling to bridge the connectivity gap, Mercury recognizes the importance of providing this critical infrastructure to our communities while striving to be the most cost-effective and efficient solution.



Mercury Wireless Indiana, LLC 6004 Highview Drive, STE B Fort Wayne, IN 46818



Monday, August 5, 2019

To Whom It May Concern,

I am writing this letter as a recommendation for the services provided by Mercury Wireless. For the past seven years I have worked closely with Mercury Wireless utilizing the USAC E-rate program to assist us with numerous services including broadband Internet and digital phone service. Our districts experience with Mercury has been exemplary as they have always been curious, professional, and timely, making them a reliable partner to

My first engagement was with Blake Wiseman who was instrumental in deploying critical communications services to the district and surrounding communities. Since then we have undertaken several projects with Mercury ranging from infrastructure upgrades, network improvements, and a district wide VoIP deployment. Mercury has consistently been responsive to the needs of the district, and prompt with any requests for assistance or support.

I would recommend that any educational institution partner with Mercury Wireless to deliver fast, reliable, and unlimited Internet and digital phone service to improve the lives of its students and educators.





Mercury Wireless Indiana, LLC 6004 Highview Drive, STE B Fort Wayne, IN 46818



Monday, August 5, 2019

To Whom It May Concern,

I am writing this letter as a recommendation for the services provided by Mercury Wireless. For the past six years I have worked closely with Mercury Wireless utilizing the USAC E-rate program to assist us with numerous services including broadband Internet and digital phone service. Our districts experience with Mercury has been exemplary as they have always been professional, and timely, making them a reliable partner to

My first engagement was with Blake Wiseman who was instrumental in deploying critical communications services to the district and surrounding communities. Since then we have undertaken several projects with Mercury ranging from infrastructure upgrades, network improvements, and most recently the deployment of a district wide VoIP system. Mercury has consistently been responsive to the needs of the district, and prompt with any requests for assistance or support.

I would recommend that any educational institution partner with Mercury Wireless to deliver fast, reliable, and unlimited Internet and digital phone service to improve the lives of its students and educators.





# Attachment 17 | Statements of Impact for Communities

Today's broadband Internet technology is often only available where there are dense populations and economies of scale can be reached. Approximately 26% of Americans in rural areas and 32% of Americans in Tribal Lands lack coverage from fixed terrestrial 25 Mbps/3 Mbps broadband, as compared to only 1.7% of Americans in urban areas<sup>1</sup>. This lack of access to modern communications services has a crippling effect on the communities.

#### **Broadbands Impact on Community Participation and Government**

Broadband availability benefits government entities by promoting interaction with its citizens. Open communication, availability of information, and encouraging citizens to interact with their respective government entities help lower costs for these agencies to manage data while at the same time increasing transparency. During the COVID-19 pandemic, it has become clear that widespread rural broadband access is imperative for providing quick and informative updates regarding government regulations and other health and safety information. This is achieved by access to online communication methods with government entities, sharing of information critical to the public's ability to participate in its local government, and providing resources to create a more engaged public, improving operations, and lowering costs for government entities.

#### Impact on Residents, Education, and Teleworkers

Providing a broadband Internet connection to households allows residents to take advantage of many internet-based services that were previously out of reach. Families with school-age children benefit from direct access to their educational institutions, curriculum, and the ability to utilize additional resources to further their education. Broadband access allows users in remote areas to further education with the ability to participate in an ever-growing number of collegiate level educational programs with available online degree programs. The National Center for Education Statistics and the U.S. Department of Education estimated that in the fall of 2017, there were 6,651,536 students enrolled in distance learning programs with a degree-granting institution<sup>2</sup>. College education allows people the ability to increase their earning potential and boost economic development for the areas in which they live. This includes increased earning potential with existing jobs, creation of new jobs, better career opportunities for teleworkers, and rural entrepreneurship leading to the development of business and agriculture.

Additionally, many families will benefit from the ability to participate in internet-based entertainment services, which are increasingly in demand and typically available only over broadband Internet connections. This includes social media, streaming content, and gaming. Connecting residents to broadband Internet gives them the ability to break down distance barriers communicating with friends and families. Connecting communities to streaming content for entertainment can often provide more affordability and value than traditionally expensive satellite-based entertainment services. For rural community leaders, this further supports the goal of long-term viability, growth, and investment in rural America.

<sup>&</sup>lt;sup>1</sup> Federal Communications Commission: 2019 Broadband Progress Report <u>https://docs.fcc.gov/public/attachments/FCC-19-44A1.pdf</u>

<sup>&</sup>lt;sup>2</sup> National Center for Education Statistics: Fast facts <u>https://nces.ed.gov/fastfacts/display.asp?id=80</u>



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