



STATE OF MICHIGAN

GRETCHEN WHITMER
GOVERNOR

DEPARTMENT OF TECHNOLOGY, MANAGEMENT & BUDGET
LANSING

TRICIA L. FOSTER
DIRECTOR

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 disqualification 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
		SEE ATTACHED TABLE	

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.

St.Clair Township Project

Project Name

Signature

Date

02/25/21

Raymond Signs

[Printed Name]

Consultant / Preparer

[Title]

Duke Broadband, Inc.

[Company]

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
Application Page 3, #3 (Partial)	PI	Contact information (cell phone # and email) is personal information falls under Personal Privacy Exception MCL15.243(1)(a)	Raymond Signs (517) 505-0396
Application Page 4, #8 (partial)	FI	Contains company financial and/or commercial information (IDs) protected under the trade secrets/commercial/financial information exception, MCL 15.243(1)(f), when submitted to a public body upon promise of confidentiality	Raymond Signs (517) 505-0396
Application Page 7; #16 (partial)	P1	The location of cybersecurity-related organizational information system infrastructure and hardware is protected under the cybersecurity exception, MCL 15.243(1)(z); the entity-created list of potential service address locations falls under the trade secrets/commercial/financial information exception, MCL 15.243(1)(f), when submitted to a public body upon promise of confidentiality and the personal privacy exception MCL 15.243(1)(a)	Raymond Signs (517) 505-0396
Application Page 8; #18 (partial). #19 (partial)	FI	Contains company financial information (sources) protected under the trade secrets/commercial/financial information exception, MCL 15.243(1)(f), when submitted to a public body upon promise of confidentiality	Raymond Signs (517) 505-0396
Application Page 11; #24 (partial). #25 (partial)	FI,PI	Contains company financial information (financial projections, pricing,) and proprietary information (trade secret methodology) protected under the trade secrets/commercial/financial information exception, MCL 15.243(1)(f), MCL 15.243(1)(a) when submitted to a public body upon promise of confidentiality	Raymond Signs (517) 505-0396
Application Page 12, #26 (Partial)	TS	Network Design is proprietary information under the trade secrets/commercial/financial information exception, MCL 15.243(1)(f), when submitted to a public body upon promise of confidentiality	Raymond Signs (517) 505-0396
Application Page 13, #27 (Partial)	P1. TS	Network Design / Methodology is proprietary information under the trade secrets/commercial/financial information exception, MCL15.243(1)(f), when submitted to a public body upon promise of confidentiality	Raymond Signs (517) 505-0396
Application Page 14; #28 (Partial), #29 (partial), #30 (partial)	TS	Construction Methodology is proprietary information under the trade secrets/commercial/financial information exception, MCL15.243(1)(f), when submitted to a public body upon promise of confidentiality	Raymond Signs (517) 505-0396

Application Page 15; #34 (Partial)	PI	The location of cybersecurity-related organizational information system infrastructure and hardware is protected under the cybersecurity exception, MCL 15.243(1)(z); the entity-created list of potential service address locations falls under the trade secrets/commercial/financial information exception, MCL 15.243(1)(f), when submitted to a public body upon promise of confidentiality and the personal privacy exception MCL 15.243(1)(a)	Raymond Signs (517) 505-0396
Application Page 16; #35 (Partial) #36 (partial)	PI	Contains commercial information that could harm competitive posture and business interests (agreements) falls under the trade secrets/commercial/financial information exception, MCL 15.243(1)(f), MCL 15.243(1)(a)	Raymond Signs (517) 505-0396
Application Page 19; #39 (Partial)	PI	Contains commercial information that could harm competitive posture and business interests (agreements) falls under the trade secrets/commercial/financial information exception, MCL 15.243(1)(f), MCL 15.243(1)(a)	Raymond Signs (517) 505-0396
Application Page 21; #44 (Partial)	P1	Contains commercial information that could harm competitive posture and business interests (pricing) falls under the trade secrets/commercial/financial information exception, MCL 15.243(1)(f), MCL 15.243(1)(a)	Raymond Signs (517) 505-0396
Application Page 22; #46 (Partial)	P1	Contains commercial information that could harm competitive posture and business interests (pricing) falls under the trade secrets/commercial/financial information exception, MCL 15.243(1)(f), MCL 15.243(1)(a)	Raymond Signs (517) 505-0396
Attachment 1 (Partial)	P1	Network Design is proprietary information under the trade secrets/commercial/financial information exception, MCL 15.243(1)(f), when submitted to a public body upon promise of confidentiality	Raymond Signs (517) 505-0396
Attachment 4 (Partial)	F1	Contains company financial information (sources) protected under the trade secrets/commercial/financial information exception, MCL 15.243(1)(f), when submitted to a public body upon promise of confidentiality	Raymond Signs (517) 505-0396
Attachment 6 (Partial)	P1	Personal information (address, cell phone # and email) is personal information falls under Personal Privacy Exception MCL 15.243(1)(a)	Raymond Signs (517) 505-0396
Attachment 7 (Full)	FI	Contains company financial information (statements) protected under the trade secrets/commercial/financial information exception, MCL 15.243(1)(f), when submitted to a public body upon promise of confidentiality	Raymond Signs (517) 505-0396
Attachment 8 (Partial)	P1	Contains commercial information that could harm competitive posture and business interests (pricing) falls under the trade secrets/commercial/financial information exception, MCL 15.243(1)(f), MCL 15.243(1)(a)	Raymond Signs (517) 505-0396



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: DTMB-CMICGrant@michigan.gov. 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: www.michigan.gov/CMICGrant. The FAQ will be updated throughout the application process. Questions and comments can also be submitted via email to: DTMB-CMICGrant@michigan.gov.

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

6. Are you registered with the [Michigan Public Service Commission's Intrastate Telecommunications Service Providers Registry \(ITSP\)](#)?

- Yes No Unsure

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:

Michigan Vendor Identification Number:

Federal Communications Commission Registration Number (FRN):

Service Provider Identification Number (SPIN):

9. Project Summary (250 words max.):

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	Type	Secured?
		<input type="checkbox"/> Cash <input type="checkbox"/> In-Kind	<input type="checkbox"/> Yes <input type="checkbox"/> No
		<input type="checkbox"/> Cash <input type="checkbox"/> In-Kind	<input type="checkbox"/> Yes <input type="checkbox"/> No
		<input type="checkbox"/> Cash <input type="checkbox"/> In-Kind	<input type="checkbox"/> Yes <input type="checkbox"/> No
		<input type="checkbox"/> Cash <input type="checkbox"/> In-Kind	<input type="checkbox"/> Yes <input type="checkbox"/> No
		<input type="checkbox"/> Cash <input type="checkbox"/> In-Kind	<input type="checkbox"/> Yes <input type="checkbox"/> No
		<input type="checkbox"/> Cash <input type="checkbox"/> In-Kind	<input type="checkbox"/> Yes <input type="checkbox"/> 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-Year Stand-Alone Project Financial Plan					
Project Name:	Year 1	Year 2	Year 3	Year 4	Year 5
Revenue					
Expenses					
Anticipated Grant Funds					
Cash Flow					
Cumulative Cash Flow					

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

[Redacted Narrative]

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.):

Attachment 10: Evidence of network scalability

Name of Attachment 10:

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	2022				2023				2024				2025		
	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3
	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
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	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	

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



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



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.

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.



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 No

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

Plan Name:

Jurisdiction:

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)

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.):

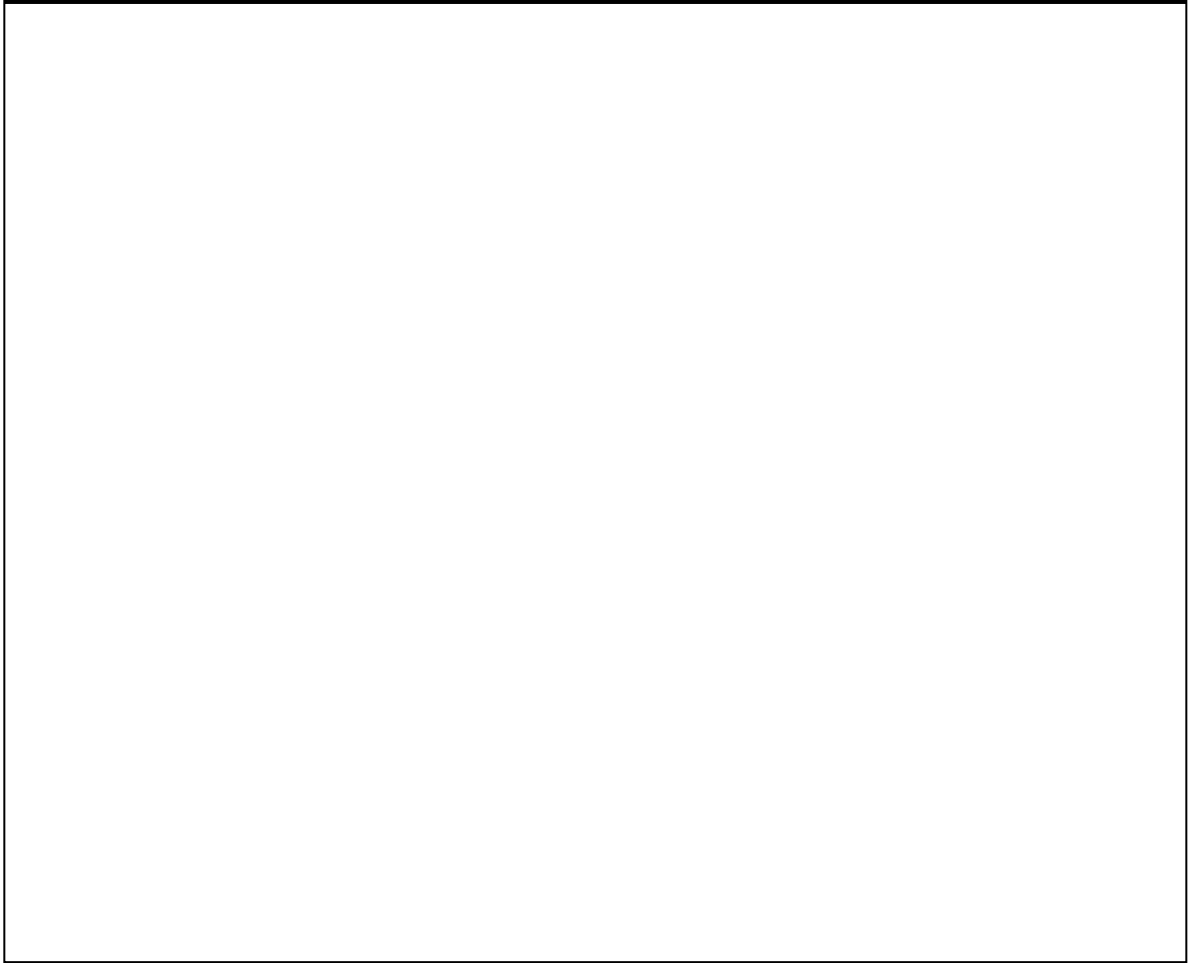
47. Does any of the proposed service area include (wholly or partially) an eligible distressed area (a list of eligible distressed areas can be found here: https://www.michigan.gov/mshda/0,4641,7-141-48987_75951-181277--,00.html)?
 Yes No

If yes, please list the distressed community(ies) impacted by the proposed service area:

Adoption Strategy

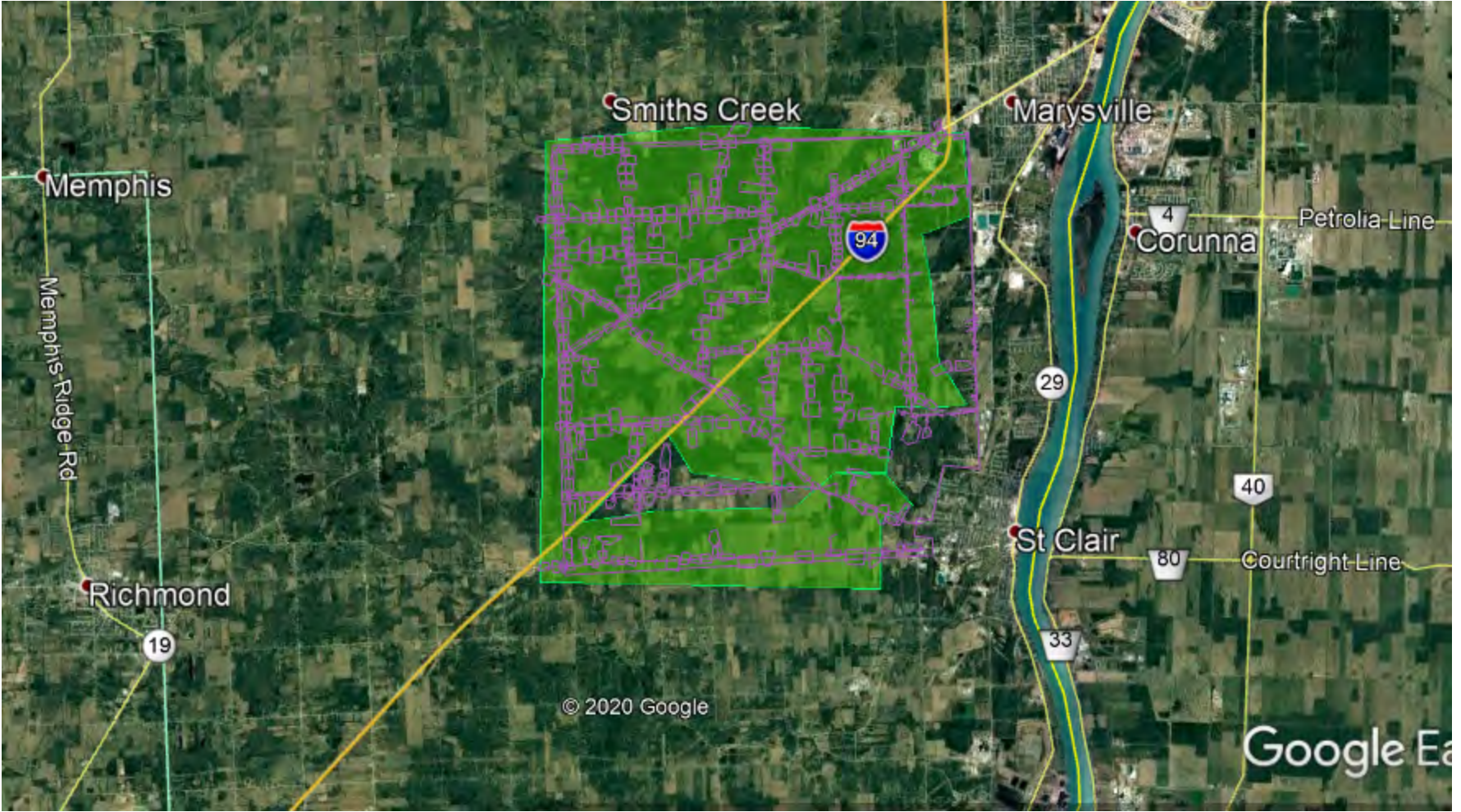
48. Please describe any proposed digital literacy training events, materials, and/or resources that will be provided to residents or businesses impacted by the proposed connectivity. Include the number and type of events, including commitments from any partners included in the digital literacy training 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 CAls 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.):

A large, empty rectangular box with a black border, intended for the applicant to provide a detailed description of materials and methods for promoting internet use, as requested in the text above. The box is currently blank.

DUKE BROADBAND FIBER

St.Clair Township Project Service Area





State Data **Local Data**

**7240 FRITH RD
SAINT CLAIR, MI 48079**

Latitude: **42.890669**
 Longitude: **-82.607237**
 Company Name: **FRONTIER COMMUNICATIONS CORPORATION**
 Fund: **CAF II**
 Speed: **10 Mbps/1 Mbps**
 Locations Deployed: **1**
 Deployment Year: **2018**

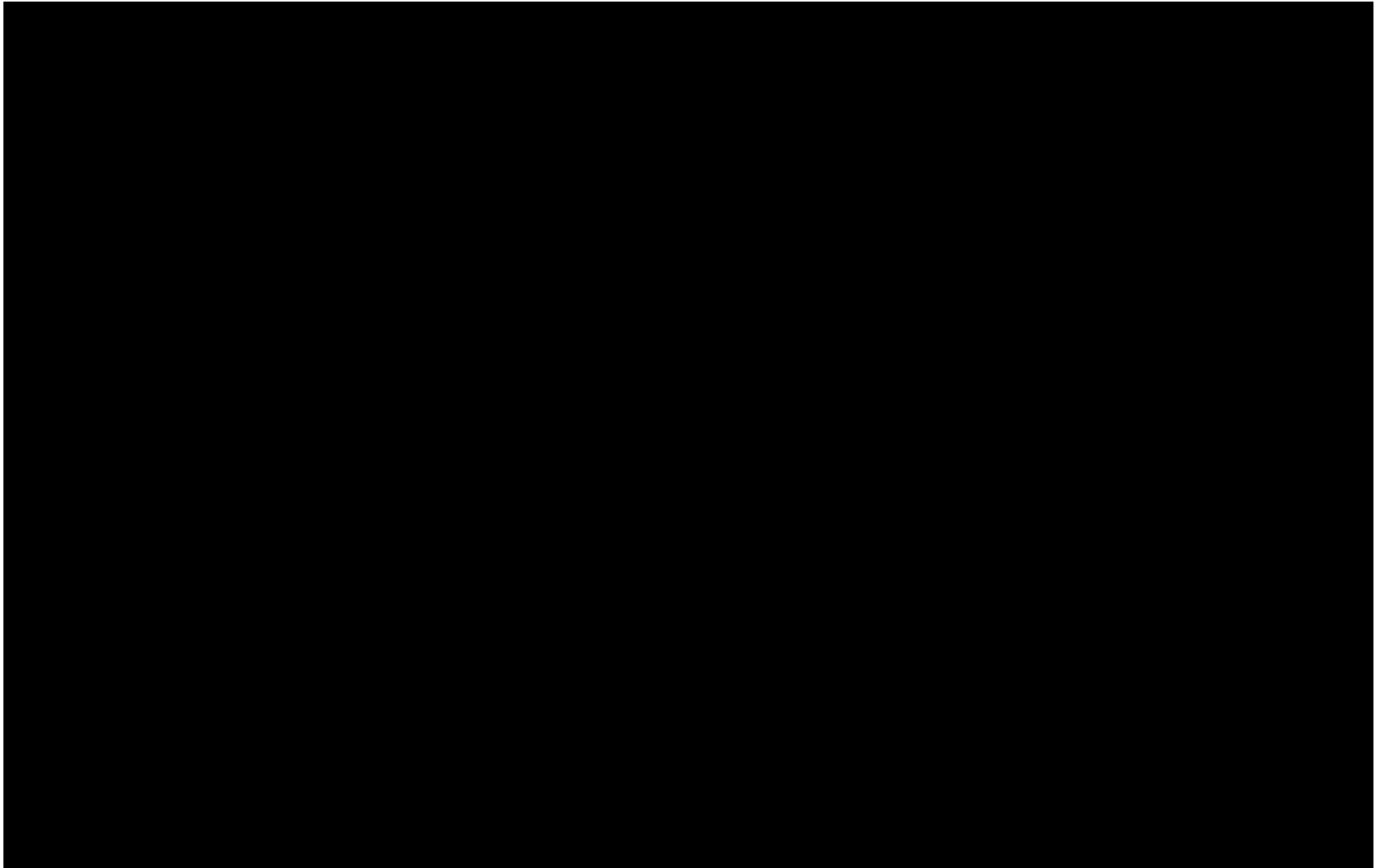
**4166 VINE ST
SAINT CLAIR, MI 48079**

Latitude: **42.831577**
 Longitude: **-82.521253**
 Company Name: **AT&T INC.**
 Fund: **CAF II**
 Speed: **10 Mbps/1 Mbps**
 Locations Deployed: **1**
 Deployment Year: **2017**

Proposed St. Clair Township Grant Area (shaded purple)

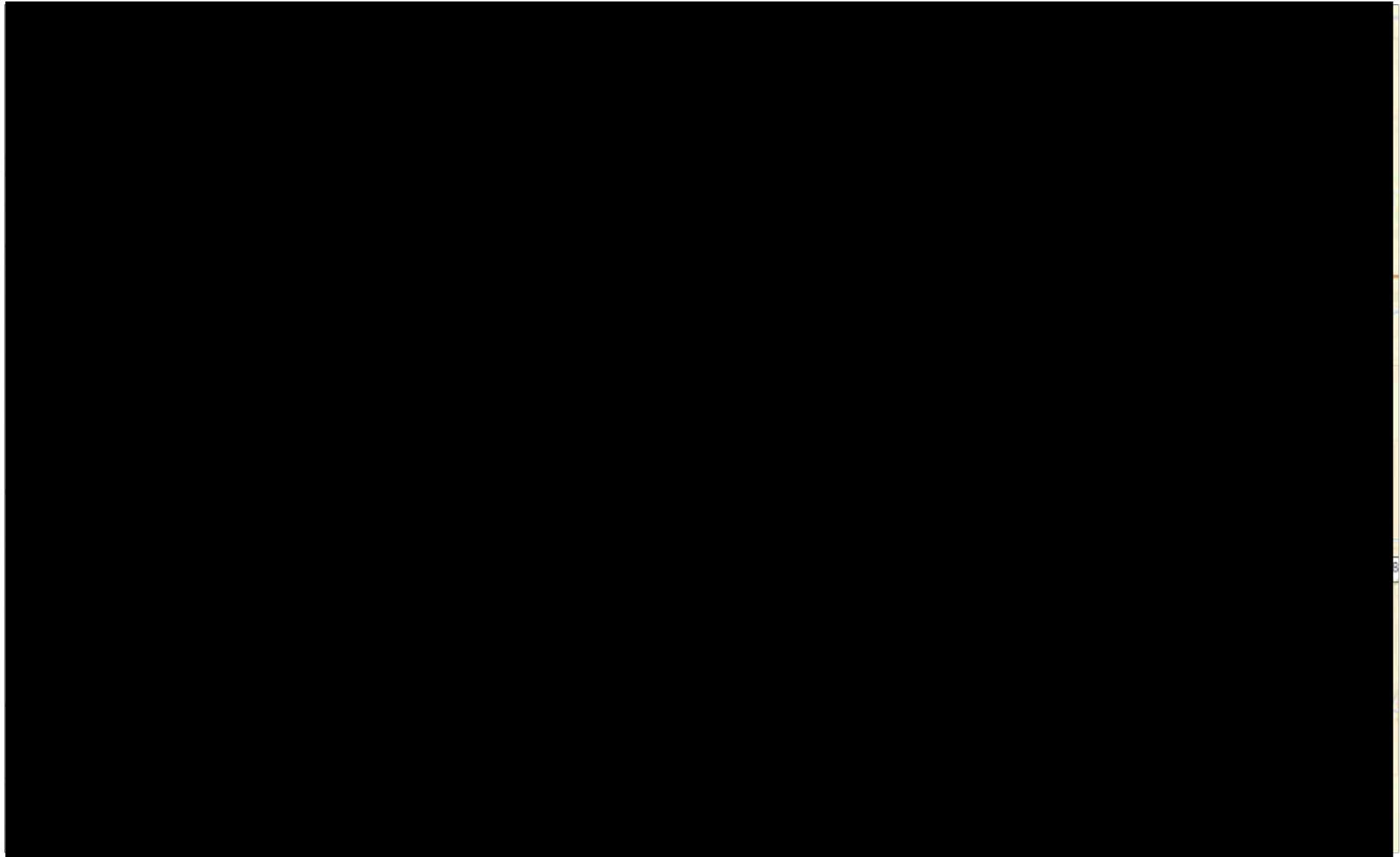
All CAF data points 10 Mbps/ 1Mbps (Frontier & AT&T INC) 12/30/2020





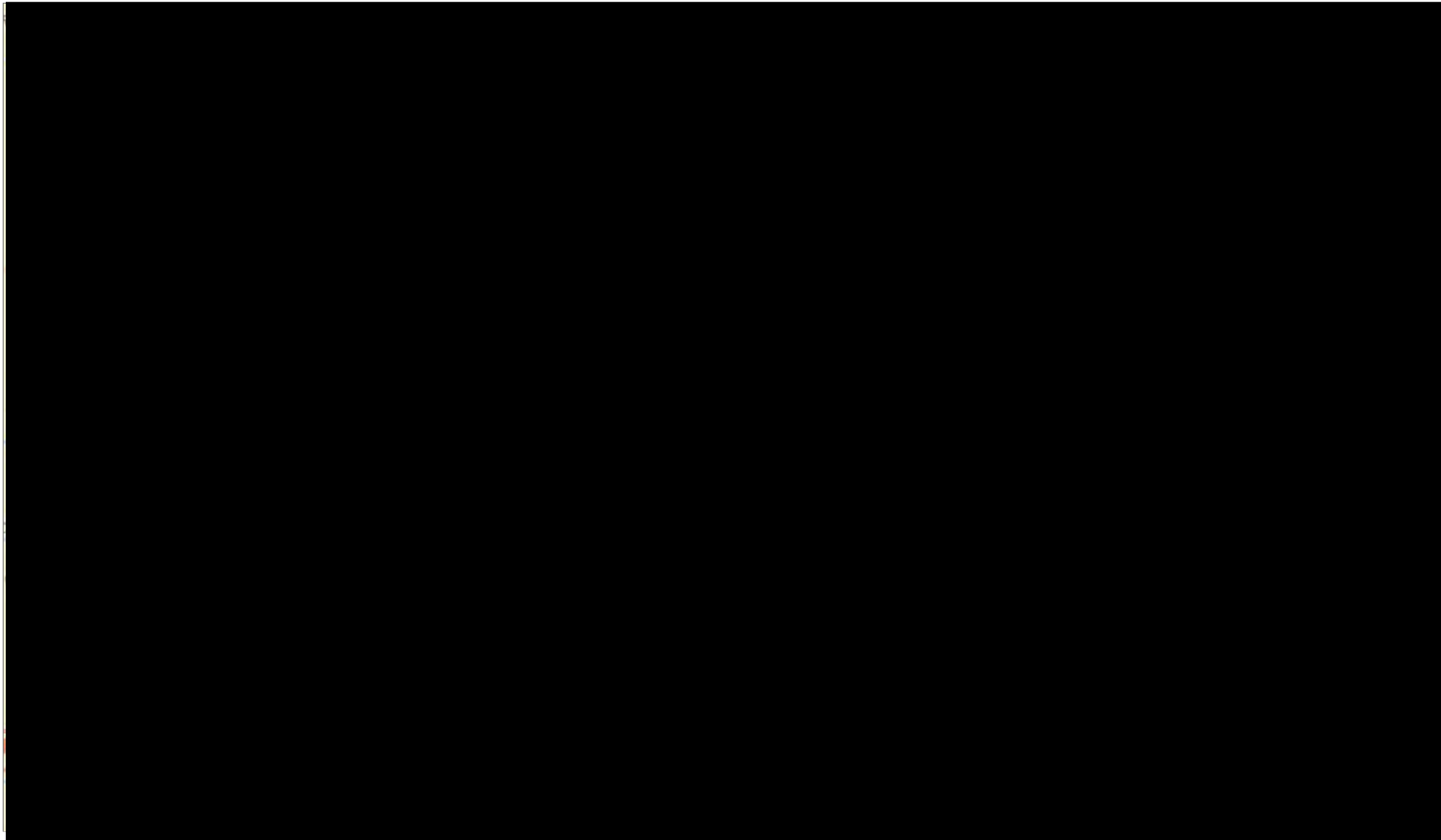
Network Map

Grant Application Areas: St.Clair Twp



Network Map

St.Clair Township Grant Areas: Map 1with Exclusions

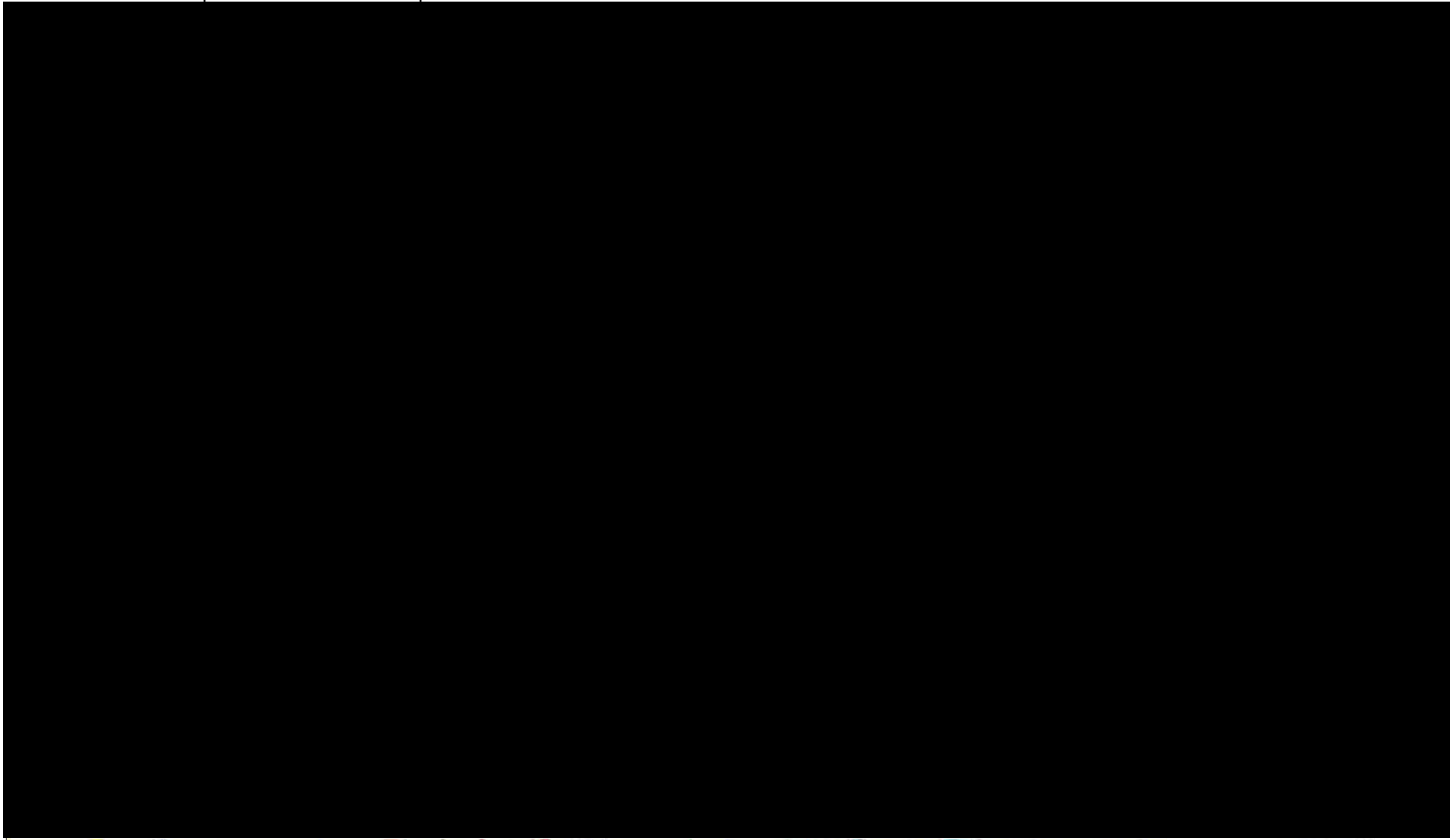


Network Map

1mi

Province of Ontario, County of Lambton, Esri, HERE, Garmin, SafeGraph, METI/NASA, USGS, EPA, NPS, USDA, NRCan, Parks Canada

St.Clair Township Grant Areas: Map 2 with Exclussions



Network Map



Province of Ontario, County of Lambton, Esri, HERE, Garmin, SafeGraph, METI/NASA, USGS, EPA, NPS, USDA, NRCan, Parks Canada

PROP_ADDRESS_COMB	Street Number	Street	CITY	State	ZIP
4550 16TH ST	4550	16TH ST	SAINT CLAIR	MI	48079
4576 16TH ST	4576	16TH ST	SAINT CLAIR	MI	48079
4580 16TH ST	4580	16TH ST	SAINT CLAIR	MI	48079
4581 16TH ST	4581	16TH ST	SAINT CLAIR	MI	48079
4590 16TH ST	4590	16TH ST	SAINT CLAIR	MI	48079
4591 16TH ST	4591	16TH ST	SAINT CLAIR	MI	48079
4612 16TH ST	4612	16TH ST	SAINT CLAIR	MI	48079
4615 16TH ST	4615	16TH ST	SAINT CLAIR	MI	48079
4650 16TH ST	4650	16TH ST	SAINT CLAIR	MI	48079
4652 16TH ST	4652	16TH ST	SAINT CLAIR	MI	48079
4665 16TH ST	4665	16TH ST	SAINT CLAIR	MI	48079
4679 16TH ST	4679	16TH ST	SAINT CLAIR	MI	48079
169 AIRPORT DR	169	AIRPORT DR	SAINT CLAIR	MI	48079
175 AIRPORT DR	175	AIRPORT DR	SAINT CLAIR	MI	48079
2025 ALLINGTON RD	2025	ALLINGTON RD	SAINT CLAIR	MI	48079
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2100 ALLINGTON RD	2100	ALLINGTON RD	SAINT CLAIR	MI	48079
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2161 ALLINGTON RD	2161	ALLINGTON RD	SAINT CLAIR	MI	48079
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7473 DREXLER RD	7473	DREXLER RD	SAINT CLAIR	MI	48079
2786 E MILL CREEK	2786	E MILL CREEK	SAINT CLAIR	MI	48079
2795 E MILL CREEK	2795	E MILL CREEK	SAINT CLAIR	MI	48079
2855 E MILL CREEK	2855	E MILL CREEK	SAINT CLAIR	MI	48079
2930 E MILL CREEK	2930	E MILL CREEK	SAINT CLAIR	MI	48079
2973 E MILL CREEK	2973	E MILL CREEK	SAINT CLAIR	MI	48079
2801 E MILL CREEK	2801	E MILL CREEK	SAINT CLAIR	MI	48079
612 ELMER DR	612	ELMER DR	SAINT CLAIR	MI	48079
5020 FITZGERALD RD	5020	FITZGERALD RD	SAINT CLAIR	MI	48079
5040 FITZGERALD RD	5040	FITZGERALD RD	SAINT CLAIR	MI	48079
5055 FITZGERALD RD	5055	FITZGERALD RD	SAINT CLAIR	MI	48079
5092 FITZGERALD RD	5092	FITZGERALD RD	SAINT CLAIR	MI	48079
5095 FITZGERALD RD	5095	FITZGERALD RD	SAINT CLAIR	MI	48079
5111 FITZGERALD RD	5111	FITZGERALD RD	SAINT CLAIR	MI	48079
5120 FITZGERALD RD	5120	FITZGERALD RD	SAINT CLAIR	MI	48079
5150 FITZGERALD RD	5150	FITZGERALD RD	SAINT CLAIR	MI	48079
5151 FITZGERALD RD	5151	FITZGERALD RD	SAINT CLAIR	MI	48079
5185 FITZGERALD RD	5185	FITZGERALD RD	SAINT CLAIR	MI	48079
5188 FITZGERALD RD	5188	FITZGERALD RD	SAINT CLAIR	MI	48079
5201 FITZGERALD RD	5201	FITZGERALD RD	SAINT CLAIR	MI	48079
5202 FITZGERALD RD	5202	FITZGERALD RD	SAINT CLAIR	MI	48079
5208 FITZGERALD RD	5208	FITZGERALD RD	SAINT CLAIR	MI	48079
5211 FITZGERALD RD	5211	FITZGERALD RD	SAINT CLAIR	MI	48079
5250 FITZGERALD RD	5250	FITZGERALD RD	SAINT CLAIR	MI	48079
5258 FITZGERALD RD	5258	FITZGERALD RD	SAINT CLAIR	MI	48079
5279 FITZGERALD RD	5279	FITZGERALD RD	SAINT CLAIR	MI	48079
5301 FITZGERALD RD	5301	FITZGERALD RD	SAINT CLAIR	MI	48079
5315 FITZGERALD RD	5315	FITZGERALD RD	SAINT CLAIR	MI	48079
5325 FITZGERALD RD	5325	FITZGERALD RD	SAINT CLAIR	MI	48079
5333 FITZGERALD RD	5333	FITZGERALD RD	SAINT CLAIR	MI	48079
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5425 FITZGERALD RD	5425	FITZGERALD RD	SAINT CLAIR	MI	48079
3796 FRED W MOORE HWY	3796	FRED W MOORE HWY	SAINT CLAIR	MI	48079
3875 FRED MOORE	3875	FRED MOORE	SAINT CLAIR	MI	48079
3981 FRED MOORE	3981	FRED MOORE	SAINT CLAIR	MI	48079
3990 FRED W MOORE HWY	3990	FRED W MOORE HWY	SAINT CLAIR	MI	48079
3995 FRED MOORE	3995	FRED MOORE	SAINT CLAIR	MI	48079
4217 FRED MOORE	4217	FRED MOORE	SAINT CLAIR	MI	48079

4247 FRED MOORE	4247	FRED MOORE	SAINT CLAIR	MI	48079
4720 FRED MOORE	4720	FRED MOORE	SAINT CLAIR	MI	48079
4745 FRED MOORE	4745	FRED MOORE	SAINT CLAIR	MI	48079
4775 FRED MOORE	4775	FRED MOORE	SAINT CLAIR	MI	48079
4780 FRED W MOORE HWY	4780	FRED W MOORE HWY	SAINT CLAIR	MI	48079
4788 FRED MOORE	4788	FRED MOORE	SAINT CLAIR	MI	48079
4798 FRED W MOORE HWY	4798	FRED W MOORE HWY	SAINT CLAIR	MI	48079
5200 FRED MOORE	5200	FRED MOORE	SAINT CLAIR	MI	48079
5201 FRED MOORE	5201	FRED MOORE	SAINT CLAIR	MI	48079
5277 FRED MOORE	5277	FRED MOORE	SAINT CLAIR	MI	48079
5288 FRED MOORE	5288	FRED MOORE	SAINT CLAIR	MI	48079
5400 FRED W MOORE HWY	5400	FRED W MOORE HWY	SAINT CLAIR	MI	48079
5564 FRED MOORE	5564	FRED MOORE	SAINT CLAIR	MI	48079
5634 FRED MOORE	5634	FRED MOORE	SAINT CLAIR	MI	48079
5772 FRED MOORE	5772	FRED MOORE	SAINT CLAIR	MI	48079
5797 FRED MOORE	5797	FRED MOORE	SAINT CLAIR	MI	48079
5800 FRED MOORE	5800	FRED MOORE	SAINT CLAIR	MI	48079
5833 FRED MOORE	5833	FRED MOORE	SAINT CLAIR	MI	48079
5843 FRED MOORE	5843	FRED MOORE	SAINT CLAIR	MI	48079
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5850 FRED W MOORE HWY	5850	FRED W MOORE HWY	SAINT CLAIR	MI	48079
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6177 FRED MOORE	6177	FRED MOORE	SAINT CLAIR	MI	48079
6218 FRED W MOORE HWY	6218	FRED W MOORE HWY	SAINT CLAIR	MI	48079
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6624 FRED W MOORE HWY	6624	FRED W MOORE HWY	SAINT CLAIR	MI	48079
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6644 FRED W MOORE HWY	6644	FRED W MOORE HWY	SAINT CLAIR	MI	48079
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6689 FRED W MOORE HWY	6689	FRED W MOORE HWY	SAINT CLAIR	MI	48079
6703 FRED MOORE	6703	FRED MOORE	SAINT CLAIR	MI	48079
6743 FRED MOORE	6743	FRED MOORE	SAINT CLAIR	MI	48079
6767 FRED W MOORE HWY	6767	FRED W MOORE HWY	SAINT CLAIR	MI	48079
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6880 FRED W MOORE HWY	6880	FRED W MOORE HWY	SAINT CLAIR	MI	48079
6899 FRED MOORE	6899	FRED MOORE	SAINT CLAIR	MI	48079
7154 FRED MOORE	7154	FRED MOORE	SAINT CLAIR	MI	48079
7051 FRED W MOORE HWY	7051	FRED W MOORE HWY	SAINT CLAIR	MI	48079
7073 FRED W MOORE HWY	7073	FRED W MOORE HWY	SAINT CLAIR	MI	48079

7074 FRED W MOORE HWY	7074	FRED W MOORE HWY	SAINT CLAIR	MI	48079
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7079 FRED W MOORE HWY	7079	FRED W MOORE HWY	SAINT CLAIR	MI	48079
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7195 FRED W MOORE HWY	7195	FRED W MOORE HWY	SAINT CLAIR	MI	48079
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7233 FRED W MOORE HWY	7233	FRED W MOORE HWY	SAINT CLAIR	MI	48079
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7260 FRED W MOORE HWY	7260	FRED W MOORE HWY	SAINT CLAIR	MI	48079
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7348 FRED W MOORE HWY	7348	FRED W MOORE HWY	SAINT CLAIR	MI	48079
7349 FRED MOORE	7349	FRED MOORE	SAINT CLAIR	MI	48079
7590 FRED MOORE	7590	FRED MOORE	SAINT CLAIR	MI	48079
7671 FRED MOORE	7671	FRED MOORE	SAINT CLAIR	MI	48079
7700 FRED MOORE	7700	FRED MOORE	SAINT CLAIR	MI	48079
6015 FRITH RD	6015	FRITH RD	SAINT CLAIR	MI	48079
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6695 FRITH RD	6695	FRITH RD	SAINT CLAIR	MI	48079
6699 FRITH RD	6699	FRITH RD	SAINT CLAIR	MI	48079
6710 FRITH RD	6710	FRITH RD	SAINT CLAIR	MI	48079
6728 FRITH RD	6728	FRITH RD	SAINT CLAIR	MI	48079
6742 FRITH RD	6742	FRITH RD	SAINT CLAIR	MI	48079

6771 FRITH RD	6771	FRITH RD	SAINT CLAIR	MI	48079
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6862 FRITH RD	6862	FRITH RD	SAINT CLAIR	MI	48079
6868 FRITH RD	6868	FRITH RD	SAINT CLAIR	MI	48079
6875 FRITH RD	6875	FRITH RD	SAINT CLAIR	MI	48079
6910 FRITH RD	6910	FRITH RD	SAINT CLAIR	MI	48079
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6936 FRITH RD	6936	FRITH RD	SAINT CLAIR	MI	48079
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7072 FRITH RD	7072	FRITH RD	SAINT CLAIR	MI	48079
7108 FRITH RD	7108	FRITH RD	SAINT CLAIR	MI	48079
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7124 FRITH RD	7124	FRITH RD	SAINT CLAIR	MI	48079
7139 FRITH RD	7139	FRITH RD	SAINT CLAIR	MI	48079
7166 FRITH RD	7166	FRITH RD	SAINT CLAIR	MI	48079
7176 FRITH RD	7176	FRITH RD	SAINT CLAIR	MI	48079
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7465 FRITH RD	7465	FRITH RD	SAINT CLAIR	MI	48079
7527 FRITH RD	7527	FRITH RD	SAINT CLAIR	MI	48079
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4613 GRATIOT RD	4613	GRATIOT RD	SAINT CLAIR	MI	48079
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4757 GRATIOT RD	4757	GRATIOT RD	SAINT CLAIR	MI	48079
4766 GRATIOT RD	4766	GRATIOT RD	SAINT CLAIR	MI	48079
4771 GRATIOT RD	4771	GRATIOT RD	SAINT CLAIR	MI	48079
4779 GRATIOT RD	4779	GRATIOT RD	SAINT CLAIR	MI	48079
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5386 GRATIOT RD	5386	GRATIOT RD	SAINT CLAIR	MI	48079
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5667 GRATIOT RD	5667	GRATIOT RD	SAINT CLAIR	MI	48079
5627 GRATIOT RD	5627	GRATIOT RD	SAINT CLAIR	MI	48079
5635 GRATIOT RD	5635	GRATIOT RD	SAINT CLAIR	MI	48079
5638 GRATIOT RD	5638	GRATIOT RD	SAINT CLAIR	MI	48079
5675 GRATIOT RD	5675	GRATIOT RD	SAINT CLAIR	MI	48079
5679 GRATIOT RD	5679	GRATIOT RD	SAINT CLAIR	MI	48079
5680 GRATIOT RD	5680	GRATIOT RD	SAINT CLAIR	MI	48079
5716 GRATIOT RD	5716	GRATIOT RD	SAINT CLAIR	MI	48079
5724 GRATIOT RD	5724	GRATIOT RD	SAINT CLAIR	MI	48079
5740 GRATIOT RD	5740	GRATIOT RD	SAINT CLAIR	MI	48079
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6128 GRATIOT RD	6128	GRATIOT RD	SAINT CLAIR	MI	48079
6133 GRATIOT RD	6133	GRATIOT RD	SAINT CLAIR	MI	48079
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6400 HYSLOP RD	6400	HYSLOP RD	SAINT CLAIR	MI	48079

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7410 HYSLOP RD	7410	HYSLOP RD	SAINT CLAIR	MI	48079
7447 HYSLOP RD	7447	HYSLOP RD	SAINT CLAIR	MI	48079
7465 HYSLOP RD	7465	HYSLOP RD	SAINT CLAIR	MI	48079
135 N ISABELLE AVE	135	N ISABELLE AVE	SMITHS CREEK	MI	48074
144N ISABELLE AVE	144N	ISABELLE AVE	SMITHS CREEK	MI	48074
145 N ISABELLE AVE	145	N ISABELLE AVE	SMITHS CREEK	MI	48074
155 N ISABELLE AVE	155	N ISABELLE AVE	SMITHS CREEK	MI	48074
157 ISABELLE ST	157	ISABELLE ST	SMITHS CREEK	MI	48074
180 N ISABELLE AVE	180	N ISABELLE AVE	SMITHS CREEK	MI	48075
1535 KENNEDY RD	1535	KENNEDY RD	SAINT CLAIR	MI	48079
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1965 KENNEDY RD	1965	KENNEDY RD	SAINT CLAIR	MI	48079
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5754 KLETTNER RD	5754	KLETTNER RD	SAINT CLAIR	MI	48079

5830 KLETTNER RD	5830	KLETTNER RD	SAINT CLAIR	MI	48079
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5880 KLETTNER RD	5880	KLETTNER RD	SAINT CLAIR	MI	48079
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5925 KLETTNER RD	5925	KLETTNER RD	SAINT CLAIR	MI	48079
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406 LINCOLN RD	406	LINCOLN RD	SAINT CLAIR	MI	48079
472 LNCOLN RD	472	LNCOLN RD	SAINT CLAIR	MI	48079
473 LINCOLN RD	473	LINCOLN RD	SAINT CLAIR	MI	48079
491 LINCOLN RD	491	LINCOLN RD	SAINT CLAIR	MI	48079
455 LINCOLN ST	455	LINCOLN ST	SAINT CLAIR	MI	48079
578 LOST DEER LANE	578	LOST DEER LANE	SAINT CLAIR	MI	48079
65 MAHREN RD	65	MAHREN RD	SAINT CLAIR	MI	48079
77 MAHREN RD	77	MAHREN RD	SAINT CLAIR	MI	48079
100 MAHREN RD	100	MAHREN RD	SAINT CLAIR	MI	48079
476 MARSHALL LN	476	MARSHALL LN	SAINT CLAIR	MI	48079
481 MARSHALL LN	481	MARSHALL LN	SAINT CLAIR	MI	48079
491 MARSHALL LN	491	MARSHALL LN	SAINT CLAIR	MI	48079
519 MARSHALL LN	519	MARSHALL LN	SAINT CLAIR	MI	48079
565 MARSHALL LN	565	MARSHALL LN	SAINT CLAIR	MI	48079
43 MAYER RD	43	MAYER RD	SAINT CLAIR	MI	48079
56 MAYER RD	56	MAYER RD	SAINT CLAIR	MI	48079
59 MAYER RD	59	MAYER RD	SAINT CLAIR	MI	48079
111 MAYER RD	111	MAYER RD	SAINT CLAIR	MI	48079
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744 MAYER RD	744	MAYER RD	SAINT CLAIR	MI	48079
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814 MAYER RD	814	MAYER RD	SAINT CLAIR	MI	48079
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875 MAYER RD	875	MAYER RD	SAINT CLAIR	MI	48079
880 MAYER RD	880	MAYER RD	SAINT CLAIR	MI	48079
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925 MAYER RD	925	MAYER RD	SAINT CLAIR	MI	48079
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1960 MAYER RD	1960	MAYER RD	SAINT CLAIR	MI	48079
2081 MAYER RD	2081	MAYER RD	SAINT CLAIR	MI	48079
2104 MAYER RD	2104	MAYER RD	SAINT CLAIR	MI	48079
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2645 MAYER RD	2645	MAYER RD	SAINT CLAIR	MI	48079
2653 MAYER RD	2653	MAYER RD	SAINT CLAIR	MI	48079
2654 MAYER RD	2654	MAYER RD	SAINT CLAIR	MI	48079
2677 MAYER RD	2677	MAYER RD	SAINT CLAIR	MI	48079
2699 MAYER RD	2699	MAYER RD	SAINT CLAIR	MI	48079
2772 MAYER RD	2772	MAYER RD	SAINT CLAIR	MI	48079
2710 MAYER RD	2710	MAYER RD	SAINT CLAIR	MI	48079
2736 MAYER RD	2736	MAYER RD	SAINT CLAIR	MI	48079
2798 MAYER RD	2798	MAYER RD	SAINT CLAIR	MI	48079
2943 MAYER RD	2943	MAYER RD	SAINT CLAIR	MI	48079
945 MACKENZIE DR	945	MACKENZIE DR	SAINT CLAIR	MI	48079
990 MACKENZIE DR	990	MACKENZIE DR	SAINT CLAIR	MI	48079
5520 MEADOW LN	5520	MEADOW LN	SAINT CLAIR	MI	48079
5533 MEADOW LN	5533	MEADOW LN	SAINT CLAIR	MI	48079
5619 MEADOW LN	5619	MEADOW LN	SAINT CLAIR	MI	48079
5627 MEADOW LN	5627	MEADOW LN	SAINT CLAIR	MI	48079
5635 MEADOW LN	5635	MEADOW LN	SAINT CLAIR	MI	48079
5647 MEADOW LN	5647	MEADOW LN	SAINT CLAIR	MI	48079
2787 MIDWAY LN	2787	MIDWAY LN	SAINT CLAIR	MI	48079
2792 MIDWAY LN	2792	MIDWAY LN	SAINT CLAIR	MI	48079
2835 MIDWAY LN	2835	MIDWAY LN	SAINT CLAIR	MI	48079
2840 MIDWAY LN	2840	MIDWAY LN	SAINT CLAIR	MI	48079
2888 MIDWAY LN	2888	MIDWAY LN	SAINT CLAIR	MI	48079
2930 MIDWAY LN	2930	MIDWAY LN	SAINT CLAIR	MI	48079
2965 MIDWAY LN	2965	MIDWAY LN	SAINT CLAIR	MI	48079
2900 MIDWAY LN	2900	MIDWAY LN	SAINT CLAIR	MI	48079

2976 MIDWAY LN	2976	MIDWAY LN	SAINT CLAIR	MI	48079
4540 MOORE DR	4540	MOORE DR	SAINT CLAIR	MI	48079
121 MURPHY DR	121	MURPHY DR	SAINT CLAIR	MI	48079
127 MURPHY DR	127	MURPHY DR	SAINT CLAIR	MI	48079
133 MURPHY DR	133	MURPHY DR	SAINT CLAIR	MI	48079
138 MURPHY DR	138	MURPHY DR	SAINT CLAIR	MI	48079
139 MURPHY DR	139	MURPHY DR	SAINT CLAIR	MI	48079
145 MURPHY DR	145	MURPHY DR	SAINT CLAIR	MI	48079
300 MURPHY DR	300	MURPHY DR	SAINT CLAIR	MI	48079
2066 NATURES WAY RD	2066	NATURES WAY RD	SAINT CLAIR	MI	48079
2074 NATURES WAY RD	2074	NATURES WAY RD	SAINT CLAIR	MI	48079
2077 NATURES WAY RD	2077	NATURES WAY RD	SAINT CLAIR	MI	48079
2237 NATURES WAY RD	2237	NATURES WAY RD	SAINT CLAIR	MI	48079
2245 NATURES WAY RD	2245	NATURES WAY RD	SAINT CLAIR	MI	48079
5500 NEUMAN RD	5500	NEUMAN RD	SAINT CLAIR	MI	48079
5511 NEUMAN RD	5511	NEUMAN RD	SAINT CLAIR	MI	48079
5533 NEUMAN RD	5533	NEUMAN RD	SAINT CLAIR	MI	48079
5541 NEUMAN RD	5541	NEUMAN RD	SAINT CLAIR	MI	48079
5605 NEUMAN RD	5605	NEUMAN RD	SAINT CLAIR	MI	48079
5631 NEUMAN RD	5631	NEUMAN RD	SAINT CLAIR	MI	48079
5650 NEUMAN RD	5650	NEUMAN RD	SAINT CLAIR	MI	48079
5675 NEUMAN RD	5675	NEUMAN RD	SAINT CLAIR	MI	48079
5680 NEUMAN RD	5680	NEUMAN RD	SAINT CLAIR	MI	48079
5711 NEUMAN RD	5711	NEUMAN RD	SAINT CLAIR	MI	48079
5724 NEUMAN RD	5724	NEUMAN RD	SAINT CLAIR	MI	48079
5736 NEUMAN RD	5736	NEUMAN RD	SAINT CLAIR	MI	48079
5747 NEUMAN RD	5747	NEUMAN RD	SAINT CLAIR	MI	48079
5748 NEUMAN RD	5748	NEUMAN RD	SAINT CLAIR	MI	48079
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5788 NEUMAN RD	5788	NEUMAN RD	SAINT CLAIR	MI	48079
5791 NEUMAN RD	5791	NEUMAN RD	SAINT CLAIR	MI	48079
5800 NEUMAN RD	5800	NEUMAN RD	SAINT CLAIR	MI	48079
5830 NEUMAN RD	5830	NEUMAN RD	SAINT CLAIR	MI	48079
5841 NEUMAN RD	5841	NEUMAN RD	SAINT CLAIR	MI	48079
5842 NEUMAN RD	5842	NEUMAN RD	SAINT CLAIR	MI	48079
5873 NEUMAN RD	5873	NEUMAN RD	SAINT CLAIR	MI	48079
5876 NEUMAN RD	5876	NEUMAN RD	SAINT CLAIR	MI	48079
5895 NEUMAN RD	5895	NEUMAN RD	SAINT CLAIR	MI	48079
5915 NEUMAN RD	5915	NEUMAN RD	SAINT CLAIR	MI	48079
5920 NEUMAN RD	5920	NEUMAN RD	SAINT CLAIR	MI	48079
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5960 NEUMAN RD	5960	NEUMAN RD	SAINT CLAIR	MI	48079
5975 NEUMAN RD	5975	NEUMAN RD	SAINT CLAIR	MI	48079
300 PINE RIDGE	300	PINE RIDGE	SAINT CLAIR	MI	48079
301 PINE RIDGE	301	PINE RIDGE	SAINT CLAIR	MI	48079
360 PINE RIDGE	360	PINE RIDGE	SAINT CLAIR	MI	48079
361 PINE RIDGE	361	PINE RIDGE	SAINT CLAIR	MI	48079
399 PINE RIDGE	399	PINE RIDGE	SAINT CLAIR	MI	48079
414 PINE RIDGE	414	PINE RIDGE	SAINT CLAIR	MI	48079
415 PINE RIDGE	415	PINE RIDGE	SAINT CLAIR	MI	48079
450 PINE RIDGE	450	PINE RIDGE	SAINT CLAIR	MI	48079
150 PINE RIVER RD	150	PINE RIVER RD	SAINT CLAIR	MI	48079
155 PINE RIVER RD	155	PINE RIVER RD	SAINT CLAIR	MI	48079
156 PINE RIVER RD	156	PINE RIVER RD	SAINT CLAIR	MI	48079
162 PINE RIVER RD	162	PINE RIVER RD	SAINT CLAIR	MI	48079
180 PINE RIVER RD	180	PINE RIVER RD	SAINT CLAIR	MI	48079

189 PINE RIVER RD	189	PINE RIVER RD	SAINT CLAIR	MI	48079
196 PINE RIVER RD	196	PINE RIVER RD	SAINT CLAIR	MI	48079
201 PINE RIVER RD	201	PINE RIVER RD	SAINT CLAIR	MI	48079
204 PINE RIVER RD	204	PINE RIVER RD	SAINT CLAIR	MI	48079
211 PINE RIVER RD	211	PINE RIVER RD	SAINT CLAIR	MI	48079
222 PINE RIVER RD	222	PINE RIVER RD	SAINT CLAIR	MI	48079
304 PINE RIVER RD	304	PINE RIVER RD	SAINT CLAIR	MI	48079
366 PINE RIVER RD	366	PINE RIVER RD	SAINT CLAIR	MI	48079
345 PINE RIVER RD	345	PINE RIVER RD	SAINT CLAIR	MI	48079
373 PINE RIVER RD	373	PINE RIVER RD	SAINT CLAIR	MI	48079
363 PINE RIVER RD	363	PINE RIVER RD	SAINT CLAIR	MI	48079
384 PINE RIVER RD	384	PINE RIVER RD	SAINT CLAIR	MI	48079
385 PINE RIVER RD	385	PINE RIVER RD	SAINT CLAIR	MI	48079
401 PINE RIVER RD	401	PINE RIVER RD	SAINT CLAIR	MI	48079
402 PINE RIVER RD	402	PINE RIVER RD	SAINT CLAIR	MI	48079
436 PINE RIVER RD	436	PINE RIVER RD	SAINT CLAIR	MI	48079
437 PINE RIVER RD	437	PINE RIVER RD	SAINT CLAIR	MI	48079
442 PINE RIVER RD	442	PINE RIVER RD	SAINT CLAIR	MI	48079
444 PINE RIVER RD	444	PINE RIVER RD	SAINT CLAIR	MI	48079
465 PINE RIVER RD	465	PINE RIVER RD	SAINT CLAIR	MI	48079
489 PINE RIVER RD	489	PINE RIVER RD	SAINT CLAIR	MI	48079
1510 PRESERVATION LN	1510	PRESERVATION LN	SAINT CLAIR	MI	48079
1521 PRESERVATION LN	1521	PRESERVATION LN	SAINT CLAIR	MI	48079
1528 PRESERVATION LN	1528	PRESERVATION LN	SAINT CLAIR	MI	48079
1537 PRESERVATION LN	1537	PRESERVATION LN	SAINT CLAIR	MI	48079
1600 PRESERVATION LN	1600	PRESERVATION LN	SAINT CLAIR	MI	48079
1621 PRESERVATION LN	1621	PRESERVATION LN	SAINT CLAIR	MI	48079
1626 PRESERVATION LN	1626	PRESERVATION LN	SAINT CLAIR	MI	48079
1700 PRESERVATION LN	1700	PRESERVATION LN	SAINT CLAIR	MI	48079
1725 PRESERVATION LN	1725	PRESERVATION LN	SAINT CLAIR	MI	48079
64 RANGE RD	64	RANGE RD	SAINT CLAIR	MI	48079
110 RANGE RD	110	RANGE RD	SAINT CLAIR	MI	48079
116 RANGE RD	116	RANGE RD	SAINT CLAIR	MI	48079
134 RANGE RD	134	RANGE RD	SAINT CLAIR	MI	48079
140 RANGE RD	140	RANGE RD	SAINT CLAIR	MI	48079
146 RANGE RD	146	RANGE RD	SAINT CLAIR	MI	48079
148 RANGE RD	148	RANGE RD	SAINT CLAIR	MI	48079
172 RANGE RD	172	RANGE RD	SAINT CLAIR	MI	48079
404 RANGE RD	404	RANGE RD	SAINT CLAIR	MI	48079
414 RANGE RD	414	RANGE RD	SAINT CLAIR	MI	48079
450 RANGE RD	450	RANGE RD	SAINT CLAIR	MI	48079
1884 S RANGE RD	1884	S RANGE RD	SAINT CLAIR	MI	48079
1888 RANGE RD	1888	RANGE RD	SAINT CLAIR	MI	48079
1908 RANGE RD	1908	RANGE RD	SAINT CLAIR	MI	48079
1920 RANGE RD	1920	RANGE RD	SAINT CLAIR	MI	48079
3288 RATTLE RUN	3288	RATTLE RUN	SAINT CLAIR	MI	48079
3290 RATTLE RUN	3290	RATTLE RUN	SAINT CLAIR	MI	48079
3292 RATTLE RUN	3292	RATTLE RUN	SAINT CLAIR	MI	48079
3289 RATTLE RUN	3289	RATTLE RUN	SAINT CLAIR	MI	48079
3614 RATTLE RUN	3614	RATTLE RUN	SAINT CLAIR	MI	48079
3619 RATTLE RUN	3619	RATTLE RUN	SAINT CLAIR	MI	48079
3633 RATTLE RUN	3633	RATTLE RUN	SAINT CLAIR	MI	48079
3677 RATTLE RUN	3677	RATTLE RUN	SAINT CLAIR	MI	48079
3688 RATTLE RUN	3688	RATTLE RUN	SAINT CLAIR	MI	48079
3999 RATTLE RUN	3999	RATTLE RUN	SAINT CLAIR	MI	48079
4000 RATTLE RUN	4000	RATTLE RUN	SAINT CLAIR	MI	48079
4133 RATTLE RUN	4133	RATTLE RUN	SAINT CLAIR	MI	48079
4150 RATTLE RUN	4150	RATTLE RUN	SAINT CLAIR	MI	48079

4151 RATTLE RUN	4151	RATTLE RUN	SAINT CLAIR	MI	48079
4200 RATTLERUN	4200	RATTLERUN	SAINT CLAIR	MI	48079
4445 RATTLE RUN	4445	RATTLE RUN	SAINT CLAIR	MI	48079
4462 RATTLE RUN	4462	RATTLE RUN	SAINT CLAIR	MI	48079
4477 RATTLE RUN	4477	RATTLE RUN	SAINT CLAIR	MI	48079
4496 RATTLE RUN	4496	RATTLE RUN	SAINT CLAIR	MI	48079
4601 RATTLE RUN	4601	RATTLE RUN	SAINT CLAIR	MI	48079
4736 RATTLE RUN	4736	RATTLE RUN	SAINT CLAIR	MI	48079
4737 RATTLE RUN	4737	RATTLE RUN	SAINT CLAIR	MI	48079
4869 RATTLE RUN	4869	RATTLE RUN	SAINT CLAIR	MI	48079
5119 RATTLE RUN	5119	RATTLE RUN	SAINT CLAIR	MI	48079
5139 RATTLE RUN	5139	RATTLE RUN	SAINT CLAIR	MI	48079
5270 RATTLE RUN	5270	RATTLE RUN	SAINT CLAIR	MI	48079
5282 RATTLE RUN	5282	RATTLE RUN	SAINT CLAIR	MI	48079
5316 RATTLE RUN	5316	RATTLE RUN	SAINT CLAIR	MI	48079
5330 RATTLE RUN	5330	RATTLE RUN	SAINT CLAIR	MI	48079
5413 RATTLE RUN	5413	RATTLE RUN	SAINT CLAIR	MI	48079
5370 RATTLE RUN RD	5370	RATTLE RUN RD	SAINT CLAIR	MI	48079
5588 RATTLE RUN	5588	RATTLE RUN	SAINT CLAIR	MI	48079
5594 RATTLE RU	5594	RATTLE RU	SAINT CLAIR	MI	48079
5600 RATTLE RUN RD	5600	RATTLE RUN RD	SAINT CLAIR	MI	48079
5630 RATTLE RUN RD	5630	RATTLE RUN RD	SAINT CLAIR	MI	48079
5660 RATTLE RUN RD	5660	RATTLE RUN RD	SAINT CLAIR	MI	48079
5702 RATTLE RUN RD	5702	RATTLE RUN RD	SAINT CLAIR	MI	48079
5730 RATTLE RUN RD	5730	RATTLE RUN RD	SAINT CLAIR	MI	48079
5750 RATTLE RUN RD	5750	RATTLE RUN RD	SAINT CLAIR	MI	48079
5789 RATTLE RUN RD	5789	RATTLE RUN RD	SAINT CLAIR	MI	48079
5819 RATTLE RUN RD	5819	RATTLE RUN RD	SAINT CLAIR	MI	48079
5830 RATTLE RUN	5830	RATTLE RUN	SAINT CLAIR	MI	48079
5840 RATTLE RUN	5840	RATTLE RUN	SAINT CLAIR	MI	48079
5858 RATTLE RUN RD	5858	RATTLE RUN RD	SAINT CLAIR	MI	48079
5863 RATTLE RUN	5863	RATTLE RUN	SAINT CLAIR	MI	48079
5860 RATTLE RUN	5860	RATTLE RUN	SAINT CLAIR	MI	48079
5879 RATTLE RUN RD	5879	RATTLE RUN RD	SAINT CLAIR	MI	48079
5881 RATTLE RUN	5881	RATTLE RUN	SAINT CLAIR	MI	48079
5888 RATTLE RUN	5888	RATTLE RUN	SAINT CLAIR	MI	48079
5927 RATTLE RUN RD	5927	RATTLE RUN RD	SAINT CLAIR	MI	48079
5970 RATTLE RUN RD	5970	RATTLE RUN RD	SAINT CLAIR	MI	48079
5981 RATTLE RUN RD	5981	RATTLE RUN RD	SAINT CLAIR	MI	48079
6021 RATTLE RUN	6021	RATTLE RUN	SAINT CLAIR	MI	48079
6104 RATTLE RUN RD	6104	RATTLE RUN RD	SAINT CLAIR	MI	48079
6105 RATTLE RUN RD	6105	RATTLE RUN RD	SAINT CLAIR	MI	48079
6106 RATTLE RUN RD	6106	RATTLE RUN RD	SAINT CLAIR	MI	48079
6110 RATTLE RUN RD	6110	RATTLE RUN RD	SAINT CLAIR	MI	48079
6116 RATTLE RUN	6116	RATTLE RUN	SAINT CLAIR	MI	48079
6121 RATTLE RUN	6121	RATTLE RUN	SAINT CLAIR	MI	48079
6124 RATTLE RUN	6124	RATTLE RUN	SAINT CLAIR	MI	48079
6131 RATTLE RUN	6131	RATTLE RUN	SAINT CLAIR	MI	48079
6150 RATTLE RUN RD	6150	RATTLE RUN RD	SAINT CLAIR	MI	48079
6174 RATTLE RUN RD	6174	RATTLE RUN RD	SAINT CLAIR	MI	48079
6219 RATTLE RUN RD	6219	RATTLE RUN RD	SAINT CLAIR	MI	48079
6237 RATTLE RUN RD	6237	RATTLE RUN RD	SAINT CLAIR	MI	48079
6289 RATTLE RUN RD	6289	RATTLE RUN RD	SAINT CLAIR	MI	48079
6333 RATTLE RUN RD	6333	RATTLE RUN RD	SAINT CLAIR	MI	48079
6350 RATTLWE RUN	6350	RATTLWE RUN	SAINT CLAIR	MI	48079
6367 RATTLE RUN RD	6367	RATTLE RUN RD	SAINT CLAIR	MI	48079
6375 RATTLE RUN RD	6375	RATTLE RUN RD	SAINT CLAIR	MI	48079
6388 RATTLE RUN	6388	RATTLE RUN	SAINT CLAIR	MI	48079

6410 RATTLE RUN	6410	RATTLE RUN	SAINT CLAIR	MI	48079
6448 RATTLE RUN RD	6448	RATTLE RUN RD	SAINT CLAIR	MI	48079
6464 RATTLE RUN	6464	RATTLE RUN	SAINT CLAIR	MI	48079
6470 RATTLE RUN RD	6470	RATTLE RUN RD	SAINT CLAIR	MI	48079
6473 RATTLE RUN	6473	RATTLE RUN	SAINT CLAIR	MI	48079
6485 RATTLE RUN RD	6485	RATTLE RUN RD	SAINT CLAIR	MI	48079
6504 RATTLE RUN	6504	RATTLE RUN	SAINT CLAIR	MI	48079
6505 RATTLE RUN RD	6505	RATTLE RUN RD	SAINT CLAIR	MI	48079
6531 RATTLE RUN RD	6531	RATTLE RUN RD	SAINT CLAIR	MI	48079
6549 RATTLE RUN	6549	RATTLE RUN	SAINT CLAIR	MI	48079
6561 RATTLE RUN RD	6561	RATTLE RUN RD	SAINT CLAIR	MI	48079
6562 RATTLE RUN RD	6562	RATTLE RUN RD	SAINT CLAIR	MI	48079
6565 RATTLE RUN RD	6565	RATTLE RUN RD	SAINT CLAIR	MI	48079
6572 RATTLE RUN	6572	RATTLE RUN	SAINT CLAIR	MI	48079
6620 RATTLE RUN	6620	RATTLE RUN	SAINT CLAIR	MI	48079
6654 RATTLE RUN RD	6654	RATTLE RUN RD	SAINT CLAIR	MI	48079
6671 RATTLE RUN	6671	RATTLE RUN	SAINT CLAIR	MI	48079
6695 RATTLE RUN RD	6695	RATTLE RUN RD	SAINT CLAIR	MI	48079
6741 RATTLE RUN	6741	RATTLE RUN	SAINT CLAIR	MI	48079
6753 RATTLE RUN	6753	RATTLE RUN	SAINT CLAIR	MI	48079
6768 RATTLE RUN RD	6768	RATTLE RUN RD	SAINT CLAIR	MI	48079
6775 RATTLE RUN RD	6775	RATTLE RUN RD	SAINT CLAIR	MI	48079
6778 RATTLE RUN RD	6778	RATTLE RUN RD	SAINT CLAIR	MI	48079
6788 RATTLE RUN RD	6788	RATTLE RUN RD	SAINT CLAIR	MI	48079
6800 RATTLE RUN RD	6800	RATTLE RUN RD	SAINT CLAIR	MI	48079
6810 RATTLE RUN RD	6810	RATTLE RUN RD	SAINT CLAIR	MI	48079
6840 RATTLE RUN RD	6840	RATTLE RUN RD	SAINT CLAIR	MI	48079
6860 RATTLE RUN RD	6860	RATTLE RUN RD	SAINT CLAIR	MI	48079
6900 RATTLE RUN	6900	RATTLE RUN	SAINT CLAIR	MI	48079
6972 RATTLE RUN	6972	RATTLE RUN	SAINT CLAIR	MI	48079
7082 RATTLE RUN	7082	RATTLE RUN	SAINT CLAIR	MI	48079
7100 RATTLE RUN	7100	RATTLE RUN	SAINT CLAIR	MI	48079
7120 RATTLE RUN	7120	RATTLE RUN	SAINT CLAIR	MI	48079
7136 RATTLE RUN RD	7136	RATTLE RUN RD	SAINT CLAIR	MI	48079
7148 RATTLE RUN RD	7148	RATTLE RUN RD	SAINT CLAIR	MI	48079
7188 RATTLE RUN RD	7188	RATTLE RUN RD	SAINT CLAIR	MI	48079
7197 RATTLE RUN	7197	RATTLE RUN	SAINT CLAIR	MI	48079
7204 RATTLE RUN	7204	RATTLE RUN	SAINT CLAIR	MI	48079
7220 RATTLE RUN	7220	RATTLE RUN	SAINT CLAIR	MI	48079
7230 RATTLE RUN	7230	RATTLE RUN	SAINT CLAIR	MI	48079
7233 RATTLE RUN	7233	RATTLE RUN	SAINT CLAIR	MI	48079
7243 RATTLE RUN RD	7243	RATTLE RUN RD	SAINT CLAIR	MI	48079
7244 RATTLE RUN	7244	RATTLE RUN	SAINT CLAIR	MI	48079
7250 RATTLE RUN RD	7250	RATTLE RUN RD	SAINT CLAIR	MI	48079
7260 RATTLE RUN	7260	RATTLE RUN	SAINT CLAIR	MI	48079
7272 RATTLE RUN RD	7272	RATTLE RUN RD	SAINT CLAIR	MI	48079
7315 RATTLE RUN RD	7315	RATTLE RUN RD	SAINT CLAIR	MI	48079
7316 RATTLE RUN	7316	RATTLE RUN	SAINT CLAIR	MI	48079
7322 RATTLE RUN	7322	RATTLE RUN	SAINT CLAIR	MI	48079
7330 RATTLE RUN RD	7330	RATTLE RUN RD	SAINT CLAIR	MI	48079
7333 RATTLE RUN RD	7333	RATTLE RUN RD	SAINT CLAIR	MI	48079
7345 RATTLE RUN RD	7345	RATTLE RUN RD	SAINT CLAIR	MI	48079
7351 RATTLE RUN RD	7351	RATTLE RUN RD	SAINT CLAIR	MI	48079
7373 RATTLE RUN	7373	RATTLE RUN	SAINT CLAIR	MI	48079
7382 RATTLE RUN RD	7382	RATTLE RUN RD	SAINT CLAIR	MI	48079
7401 RATTLE RUN RD	7401	RATTLE RUN RD	SAINT CLAIR	MI	48079
7430 RATTLE RUN	7430	RATTLE RUN	SAINT CLAIR	MI	48079
7436 RATTLE RUN	7436	RATTLE RUN	SAINT CLAIR	MI	48079

7471 RATTLE RUN RD	7471	RATTLE RUN RD	SAINT CLAIR	MI	48079
15 RICHMAN RD	15	RICHMAN RD	SAINT CLAIR	MI	48079
55 RICHMAN RD	55	RICHMAN RD	SAINT CLAIR	MI	48079
58 RICHMAN RD	58	RICHMAN RD	SAINT CLAIR	MI	48079
77 RICHMAN RD	77	RICHMAN RD	SAINT CLAIR	MI	48079
80 RICHMAN RD	80	RICHMAN RD	SAINT CLAIR	MI	48079
92 RICHMAN RD	92	RICHMAN RD	SAINT CLAIR	MI	48079
99 RICHMAN RD	99	RICHMAN RD	SAINT CLAIR	MI	48079
140 RICHMAN RD	140	RICHMAN RD	SAINT CLAIR	MI	48079
150 RICHMAN RD	150	RICHMAN RD	SAINT CLAIR	MI	48079
187 RICHMAN RD	187	RICHMAN RD	SAINT CLAIR	MI	48079
200 RICHMARD	200	RICHMARD	SAINT CLAIR	MI	48079
210 RICHMAN RD	210	RICHMAN RD	SAINT CLAIR	MI	48079
217 RICHMAN RD	217	RICHMAN RD	SAINT CLAIR	MI	48079
220 RICHMAN RD	220	RICHMAN RD	SAINT CLAIR	MI	48079
238 RICHMAN RD	238	RICHMAN RD	SAINT CLAIR	MI	48079
265 RICHMAN RD	265	RICHMAN RD	SAINT CLAIR	MI	48079
270 RICHMAN RD	270	RICHMAN RD	SAINT CLAIR	MI	48079
300 RICHMAN RD	300	RICHMAN RD	SAINT CLAIR	MI	48079
373 RICHMAN RD	373	RICHMAN RD	SAINT CLAIR	MI	48079
386 RICHMAN RD	386	RICHMAN RD	SAINT CLAIR	MI	48079
405 RICHMAN RD	405	RICHMAN RD	SAINT CLAIR	MI	48079
410 RICHMAN RD	410	RICHMAN RD	SAINT CLAIR	MI	48079
421 RICHMAN RD	421	RICHMAN RD	SAINT CLAIR	MI	48079
455 RICHMAN RD	455	RICHMAN RD	SAINT CLAIR	MI	48079
460 RICHMAN RD	460	RICHMAN RD	SAINT CLAIR	MI	48079
465 RICHMAN RD	465	RICHMAN RD	SAINT CLAIR	MI	48079
485 RICHMAN RD	485	RICHMAN RD	SAINT CLAIR	MI	48079
550 RICHMAN RD	550	RICHMAN RD	SAINT CLAIR	MI	48079
612 RICHMAN RD	612	RICHMAN RD	SAINT CLAIR	MI	48079
637 RICHMAN RD	637	RICHMAN RD	SAINT CLAIR	MI	48079
638 RICHMAN RD	638	RICHMAN RD	SAINT CLAIR	MI	48079
676 RICHMAN RD	676	RICHMAN RD	SAINT CLAIR	MI	48079
681 RICHMAN RD	681	RICHMAN RD	SAINT CLAIR	MI	48079
700 RICHMAN RD	700	RICHMAN RD	SAINT CLAIR	MI	48079
721 RICHMAN RD	721	RICHMAN RD	SAINT CLAIR	MI	48079
724 RICHMAN RD	724	RICHMAN RD	SAINT CLAIR	MI	48079
853 RICHMAN RD	853	RICHMAN RD	SAINT CLAIR	MI	48079
938 RICHMAN RD	938	RICHMAN RD	SAINT CLAIR	MI	48079
962 RICHMAN RD	962	RICHMAN RD	SAINT CLAIR	MI	48079
978 RICHMAN RD	978	RICHMAN RD	SAINT CLAIR	MI	48079
1000 RICHMAN RD	1000	RICHMAN RD	SAINT CLAIR	MI	48079
1011 RICHMAN RD	1011	RICHMAN RD	SAINT CLAIR	MI	48079
1020 RICHMAN RD	1020	RICHMAN RD	SAINT CLAIR	MI	48079
1057 RICHMAN RD	1057	RICHMAN RD	SAINT CLAIR	MI	48079
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1098 RICHMAN RD	1098	RICHMAN RD	SAINT CLAIR	MI	48079
1104 RICHMAN RD	1104	RICHMAN RD	SAINT CLAIR	MI	48079
1111 RICHMAN RD	1111	RICHMAN RD	SAINT CLAIR	MI	48079
1124 RICHMAN RD	1124	RICHMAN RD	SAINT CLAIR	MI	48079
1134 RICHMAN RD	1134	RICHMAN RD	SAINT CLAIR	MI	48079
1144 RICHMAN RD	1144	RICHMAN RD	SAINT CLAIR	MI	48079
1154 RICHMAN RD	1154	RICHMAN RD	SAINT CLAIR	MI	48079
1155 RICHMAN RD	1155	RICHMAN RD	SAINT CLAIR	MI	48079
1164 RICHMAN RD	1164	RICHMAN RD	SAINT CLAIR	MI	48079
1174 RICHMAN RD	1174	RICHMAN RD	SAINT CLAIR	MI	48079
1184 RICHMAN RD	1184	RICHMAN RD	SAINT CLAIR	MI	48079

177 S ALLEN RD	177	S ALLEN RD	SAINT CLAIR	MI	48079
178 S ALLEN RD	178	S ALLEN RD	SAINT CLAIR	MI	48079
186 S ALLEN RD	186	S ALLEN RD	SAINT CLAIR	MI	48079
191 S ALLEN RD	191	S ALLEN RD	SAINT CLAIR	MI	48079
237 S ALLEN RD	237	S ALLEN RD	SAINT CLAIR	MI	48079
240 S ALLEN RD	240	S ALLEN RD	SAINT CLAIR	MI	48079
247 S ALLEN RD	247	S ALLEN RD	SAINT CLAIR	MI	48079
250 S ALLEN RD	250	S ALLEN RD	SAINT CLAIR	MI	48079
251 S ALLEN RD	251	S ALLEN RD	SAINT CLAIR	MI	48079
255 S ALLEN RD	255	S ALLEN RD	SAINT CLAIR	MI	48079
259 S ALLEN RD	259	S ALLEN RD	SAINT CLAIR	MI	48079
263 S ALLEN RD	263	S ALLEN RD	SAINT CLAIR	MI	48079
280 S ALLEN RD	280	S ALLEN RD	SAINT CLAIR	MI	48079
300 S ALLEN RD	300	S ALLEN RD	SAINT CLAIR	MI	48079
302 S ALLEN RD	302	S ALLEN RD	SAINT CLAIR	MI	48079
307 S ALLEN RD	307	S ALLEN RD	SAINT CLAIR	MI	48079
310 S ALLEN RD	310	S ALLEN RD	SAINT CLAIR	MI	48079
315 S ALLEN RD	315	S ALLEN RD	SAINT CLAIR	MI	48079
316 S ALLEN RD	316	S ALLEN RD	SAINT CLAIR	MI	48079
320 S ALLEN RD	320	S ALLEN RD	SAINT CLAIR	MI	48079
325 S ALLEN RD	325	S ALLEN RD	SAINT CLAIR	MI	48079
326 S ALLEN RD	326	S ALLEN RD	SAINT CLAIR	MI	48079
400 S ALLEN RD	400	S ALLEN RD	SAINT CLAIR	MI	48079
405 S ALLEN RD	405	S ALLEN RD	SAINT CLAIR	MI	48079
410 S ALLEN RD	410	S ALLEN RD	SAINT CLAIR	MI	48079
450 S ALLEN RD	450	S ALLEN RD	SAINT CLAIR	MI	48079
553 S ALLEN RD	553	S ALLEN RD	SAINT CLAIR	MI	48079
554 S ALLEN RD	554	S ALLEN RD	SAINT CLAIR	MI	48079
610 S ALLEN RD	610	S ALLEN RD	SAINT CLAIR	MI	48079
670 S ALLEN RD	670	S ALLEN RD	SAINT CLAIR	MI	48079
675 S ALLEN RD	675	S ALLEN RD	SAINT CLAIR	MI	48079
688 S ALLEN RD	688	S ALLEN RD	SAINT CLAIR	MI	48079
700 S ALLEN RD	700	S ALLEN RD	SAINT CLAIR	MI	48079
701 S ALLEN RD	701	S ALLEN RD	SAINT CLAIR	MI	48079
708 S ALLEN RD	708	S ALLEN RD	SAINT CLAIR	MI	48079
709 S ALLEN RD	709	S ALLEN RD	SAINT CLAIR	MI	48079
720 S ALLEN RD	720	S ALLEN RD	SAINT CLAIR	MI	48079
750 S ALLEN RD	750	S ALLEN RD	SAINT CLAIR	MI	48079
780 S ALLEN RD	780	S ALLEN RD	SAINT CLAIR	MI	48079
830 S ALLEN RD	830	S ALLEN RD	SAINT CLAIR	MI	48079
839 S ALLEN RD	839	S ALLEN RD	SAINT CLAIR	MI	48079
850 S ALLEN RD	850	S ALLEN RD	SAINT CLAIR	MI	48079
880 S ALLEN RD	880	S ALLEN RD	SAINT CLAIR	MI	48079
909 S ALLEN RD	909	S ALLEN RD	SAINT CLAIR	MI	48079
910 S ALLEN RD	910	S ALLEN RD	SAINT CLAIR	MI	48079
929 S ALLEN RD	929	S ALLEN RD	SAINT CLAIR	MI	48079
932 S ALLEN RD	932	S ALLEN RD	SAINT CLAIR	MI	48079
933 S ALLEN RD	933	S ALLEN RD	SAINT CLAIR	MI	48079
947 S ALLEN RD	947	S ALLEN RD	SAINT CLAIR	MI	48079
960 S ALLEN RD	960	S ALLEN RD	SAINT CLAIR	MI	48079
969 S ALLEN RD	969	S ALLEN RD	SAINT CLAIR	MI	48079
990 S ALLEN RD	990	S ALLEN RD	SAINT CLAIR	MI	48079
994 S ALLEN RD	994	S ALLEN RD	SAINT CLAIR	MI	48079
1018 S ALLEN RD	1018	S ALLEN RD	SAINT CLAIR	MI	48079
1022 S ALLEN RD	1022	S ALLEN RD	SAINT CLAIR	MI	48079
1025 S ALLEN RD	1025	S ALLEN RD	SAINT CLAIR	MI	48079
1066 S ALLEN RD	1066	S ALLEN RD	SAINT CLAIR	MI	48079
1071 S ALLEN RD	1071	S ALLEN RD	SAINT CLAIR	MI	48079

1095 S ALLEN RD	1095	S ALLEN RD	SAINT CLAIR	MI	48079
1098 S ALLEN RD	1098	S ALLEN RD	SAINT CLAIR	MI	48079
1103 S ALLEN RD	1103	S ALLEN RD	SAINT CLAIR	MI	48079
1111 S ALLEN RD	1111	S ALLEN RD	SAINT CLAIR	MI	48079
1116 S ALLEN RD	1116	S ALLEN RD	SAINT CLAIR	MI	48079
1126 S ALLEN RD	1126	S ALLEN RD	SAINT CLAIR	MI	48079
1132 S ALLEN RD	1132	S ALLEN RD	SAINT CLAIR	MI	48079
1133 S ALLEN RD	1133	S ALLEN RD	SAINT CLAIR	MI	48079
1150 S ALLEN RD	1150	S ALLEN RD	SAINT CLAIR	MI	48079
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1200 S ALLEN RD	1200	S ALLEN RD	SAINT CLAIR	MI	48079
1284 S ALLEN RD	1284	S ALLEN RD	SAINT CLAIR	MI	48079
1310 S ALLEN RD	1310	S ALLEN RD	SAINT CLAIR	MI	48079
1350 S ALLEN RD	1350	S ALLEN RD	SAINT CLAIR	MI	48079
1353 S ALLEN RD	1353	S ALLEN RD	SAINT CLAIR	MI	48079
1360 S ALLEN RD	1360	S ALLEN RD	SAINT CLAIR	MI	48079
1370 S ALLEN RD	1370	S ALLEN RD	SAINT CLAIR	MI	48079
1380 S ALLEN RD	1380	S ALLEN RD	SAINT CLAIR	MI	48079
1390 S ALLEN RD	1390	S ALLEN RD	SAINT CLAIR	MI	48079
1400 S ALLEN RD	1400	S ALLEN RD	SAINT CLAIR	MI	48079
1421 S ALLEN RD	1421	S ALLEN RD	SAINT CLAIR	MI	48079
1438 S ALLEN RD	1438	S ALLEN RD	SAINT CLAIR	MI	48079
1442 S ALLEN RD	1442	S ALLEN RD	SAINT CLAIR	MI	48079
1471 S ALLEN RD	1471	S ALLEN RD	SAINT CLAIR	MI	48079
1486 S ALLEN RD	1486	S ALLEN RD	SAINT CLAIR	MI	48079
1517 S ALLEN RD	1517	S ALLEN RD	SAINT CLAIR	MI	48079
1538 S ALLEN RD	1538	S ALLEN RD	SAINT CLAIR	MI	48079
1541 S ALLEN RD	1541	S ALLEN RD	SAINT CLAIR	MI	48079
1577 S ALLEN RD	1577	S ALLEN RD	SAINT CLAIR	MI	48079
1580 S ALLEN RD	1580	S ALLEN RD	SAINT CLAIR	MI	48079
1586 S ALLEN RD	1586	S ALLEN RD	SAINT CLAIR	MI	48079
1600 S ALLEN RD	1600	S ALLEN RD	SAINT CLAIR	MI	48079
1601 S ALLEN RD	1601	S ALLEN RD	SAINT CLAIR	MI	48079
1631 S ALLEN RD	1631	S ALLEN RD	SAINT CLAIR	MI	48079
1634 S ALLEN RD	1634	S ALLEN RD	SAINT CLAIR	MI	48079
1655 S ALLEN RD	1655	S ALLEN RD	SAINT CLAIR	MI	48079
1660 S ALLEN RD	1660	S ALLEN RD	SAINT CLAIR	MI	48079
1680 S ALLEN RD	1680	S ALLEN RD	SAINT CLAIR	MI	48079
1685 S ALLEN RD	1685	S ALLEN RD	SAINT CLAIR	MI	48079
1722 S ALLEN RD	1722	S ALLEN RD	SAINT CLAIR	MI	48079
1740 S ALLEN RD	1740	S ALLEN RD	SAINT CLAIR	MI	48079
1731 S ALLEN RD	1731	S ALLEN RD	SAINT CLAIR	MI	48079
1745 S ALLEN RD	1745	S ALLEN RD	SAINT CLAIR	MI	48079
1777 S ALLEN RD	1777	S ALLEN RD	SAINT CLAIR	MI	48079
1800 S ALLEN RD	1800	S ALLEN RD	SAINT CLAIR	MI	48079
1811 S ALLEN RD	1811	S ALLEN RD	SAINT CLAIR	MI	48079
1830 S ALLEN RD	1830	S ALLEN RD	SAINT CLAIR	MI	48079
1856 S ALLEN RD	1856	S ALLEN RD	SAINT CLAIR	MI	48079
1895 S ALLEN RD	1895	S ALLEN RD	SAINT CLAIR	MI	48079
1896 S ALLEN RD	1896	S ALLEN RD	SAINT CLAIR	MI	48079
1910 S ALLEN RD	1910	S ALLEN RD	SAINT CLAIR	MI	48079
1920 S ALLEN RD	1920	S ALLEN RD	SAINT CLAIR	MI	48079
1940 S ALLEN RD	1940	S ALLEN RD	SAINT CLAIR	MI	48079
1960 S ALLEN RD	1960	S ALLEN RD	SAINT CLAIR	MI	48079
211 S BARTLETT RD	211	S BARTLETT RD	SAINT CLAIR	MI	48079
224 S BARTLETT RD	224	S BARTLETT RD	SAINT CLAIR	MI	48079
244 S BARTLETT RD	244	S BARTLETT RD	SAINT CLAIR	MI	48079

270 S BARTLETT RD	270	S BARTLETT RD	SAINT CLAIR	MI	48079
273 S BARTLETT RD	273	S BARTLETT RD	SAINT CLAIR	MI	48079
279 S BARTLETT RD	279	S BARTLETT RD	SAINT CLAIR	MI	48079
288 S BARTLETT RD	288	S BARTLETT RD	SAINT CLAIR	MI	48079
289 S BARTLETT RD	289	S BARTLETT RD	SAINT CLAIR	MI	48079
292 S BARTLETT RD	292	S BARTLETT RD	SAINT CLAIR	MI	48079
293 S BARTLETT RD	293	S BARTLETT RD	SAINT CLAIR	MI	48079
296 S BARTLETT RD	296	S BARTLETT RD	SAINT CLAIR	MI	48079
472 S BARTLETT RD	472	S BARTLETT RD	SAINT CLAIR	MI	48079
475 S BARTLETT RD	475	S BARTLETT RD	SAINT CLAIR	MI	48079
478 S BARTLETT RD	478	S BARTLETT RD	SAINT CLAIR	MI	48079
524 S BARTLETT RD	524	S BARTLETT RD	SAINT CLAIR	MI	48079
565 S BARTLETT RD	565	S BARTLETT RD	SAINT CLAIR	MI	48079
667 S BARTLETT RD	667	S BARTLETT RD	SAINT CLAIR	MI	48079
680 S BARTLETT RD	680	S BARTLETT RD	SAINT CLAIR	MI	48079
700 S BARTLETT RD	700	S BARTLETT RD	SAINT CLAIR	MI	48079
735 S BARTLETT RD	735	S BARTLETT RD	SAINT CLAIR	MI	48079
765 S BARTLETT RD	765	S BARTLETT RD	SAINT CLAIR	MI	48079
777 S BARTLETT RD	777	S BARTLETT RD	SAINT CLAIR	MI	48079
778 S BARTLETT RD	778	S BARTLETT RD	SAINT CLAIR	MI	48079
786 S BARTLETT RD	786	S BARTLETT RD	SAINT CLAIR	MI	48079
812 S BARTLETT RD	812	S BARTLETT RD	SAINT CLAIR	MI	48079
850 S BARTLETT RD	850	S BARTLETT RD	SAINT CLAIR	MI	48079
873 S BARTLETT RD	873	S BARTLETT RD	SAINT CLAIR	MI	48079
915 S BARTLETT RD	915	S BARTLETT RD	SAINT CLAIR	MI	48079
1010 S BARTLETT RD	1010	S BARTLETT RD	SAINT CLAIR	MI	48079
1075 S BARTLETT RD	1075	S BARTLETT RD	SAINT CLAIR	MI	48079
1135 S BARTLETT RD	1135	S BARTLETT RD	SAINT CLAIR	MI	48079
1207 S BARTLETT RD	1207	S BARTLETT RD	SAINT CLAIR	MI	48079
1229 S BARTLETT RD	1229	S BARTLETT RD	SAINT CLAIR	MI	48079
1233 S BARTLETT RD	1233	S BARTLETT RD	SAINT CLAIR	MI	48079
1234 S BARTLETT RD	1234	S BARTLETT RD	SAINT CLAIR	MI	48079
1241 S BARTLETT RD	1241	S BARTLETT RD	SAINT CLAIR	MI	48079
1303 S BARTLETT RD	1303	S BARTLETT RD	SAINT CLAIR	MI	48079
1373 S BARTLETT RD	1373	S BARTLETT RD	SAINT CLAIR	MI	48079
1479 S BARTLETT RD	1479	S BARTLETT RD	SAINT CLAIR	MI	48079
1499 S BARTLETT RD	1499	S BARTLETT RD	SAINT CLAIR	MI	48079
1526 S BARTLETT RD	1526	S BARTLETT RD	SAINT CLAIR	MI	48079
1539 S BARTLETT RD	1539	S BARTLETT RD	SAINT CLAIR	MI	48079
1545 S BARTLETT RD	1545	S BARTLETT RD	SAINT CLAIR	MI	48079
1546 S BARTLETT RD	1546	S BARTLETT RD	SAINT CLAIR	MI	48079
1610 S BARTLETT RD	1610	S BARTLETT RD	SAINT CLAIR	MI	48079
1680 S BARTLETT RD	1680	S BARTLETT RD	SAINT CLAIR	MI	48079
1800 S BARTLETT RD	1800	S BARTLETT RD	SAINT CLAIR	MI	48079
1805 S BARTLETT RD	1805	S BARTLETT RD	SAINT CLAIR	MI	48079
1830 S BARTLETT RD	1830	S BARTLETT RD	SAINT CLAIR	MI	48079
1845 S BARTLETT RD	1845	S BARTLETT RD	SAINT CLAIR	MI	48079
1880 S BARTLETT RD	1880	S BARTLETT RD	SAINT CLAIR	MI	48079
1885 S BARTLETT RD	1885	S BARTLETT RD	SAINT CLAIR	MI	48079
1897 S BARTLETT RD	1897	S BARTLETT RD	SAINT CLAIR	MI	48079
1900 S BARTLETT RD	1900	S BARTLETT RD	SAINT CLAIR	MI	48079
1909 S BARTLETT RD	1909	S BARTLETT RD	SAINT CLAIR	MI	48079
1921 S BARTLETT RD	1921	S BARTLETT RD	SAINT CLAIR	MI	48079
1925 S BARTLETT RD	1925	S BARTLETT RD	SAINT CLAIR	MI	48079
1950 S BARTLETT RD	1950	S BARTLETT RD	SAINT CLAIR	MI	48079
1955 S BARTLETT RD	1955	S BARTLETT RD	SAINT CLAIR	MI	48079
1978 S BARTLETT RD	1978	S BARTLETT RD	SAINT CLAIR	MI	48079
6735 SERENITY LN	6735	SERENITY LN	SAINT CLAIR	MI	48079

6740 SERENITY LN	6740	SERENITY LN	SAINT CLAIR	MI	48079
6775 SERENITY LN	6775	SERENITY LN	SAINT CLAIR	MI	48079
6790 SERENITY LN	6790	SERENITY LN	SAINT CLAIR	MI	48079
6815 SERENITY LN	6815	SERENITY LN	SAINT CLAIR	MI	48079
6820 SERENITY LN	6820	SERENITY LN	SAINT CLAIR	MI	48079
6855 SERENITY LN	6855	SERENITY LN	SAINT CLAIR	MI	48079
6860 SERENITY LN	6860	SERENITY LN	SAINT CLAIR	MI	48079
6900 SERENITY LN	6900	SERENITY LN	SAINT CLAIR	MI	48079
6895 SERENITY LN	6895	SERENITY LN	SAINT CLAIR	MI	48079
6915 SERENITY LN	6915	SERENITY LN	SAINT CLAIR	MI	48079
6930 SERENITY LN	6930	SERENITY LN	SAINT CLAIR	MI	48079
6935 SERENITY LN	6935	SERENITY LN	SAINT CLAIR	MI	48079
1017 STEIN RD	1017	STEIN RD	SAINT CLAIR	MI	48079
1025 STEIN RD	1025	STEIN RD	SAINT CLAIR	MI	48079
1035 STEIN RD	1035	STEIN RD	SAINT CLAIR	MI	48079
1036 STEIN RD	1036	STEIN RD	SAINT CLAIR	MI	48079
1045 STEIN RD	1045	STEIN RD	SAINT CLAIR	MI	48079
1048 STEIN RD	1048	STEIN RD	SAINT CLAIR	MI	48079
1082 STEIN RD	1082	STEIN RD	SAINT CLAIR	MI	48079
1089 STEIN RD	1089	STEIN RD	SAINT CLAIR	MI	48079
1110 STEIN RD	1110	STEIN RD	SAINT CLAIR	MI	48079
1115 STEIN RD	1115	STEIN RD	SAINT CLAIR	MI	48079
1137 STEIN RD	1137	STEIN RD	SAINT CLAIR	MI	48079
1168 STEIN RD	1168	STEIN RD	SAINT CLAIR	MI	48079
1175 STEIN RD	1175	STEIN RD	SAINT CLAIR	MI	48079
1200 STEIN RD	1200	STEIN RD	SAINT CLAIR	MI	48079
1276 STEIN RD	1276	STEIN RD	SAINT CLAIR	MI	48079
1283 STEIN RD	1283	STEIN RD	SAINT CLAIR	MI	48079
1325 STEIN RD	1325	STEIN RD	SAINT CLAIR	MI	48079
1326 STEIN RD	1326	STEIN RD	SAINT CLAIR	MI	48079
1350 STEIN RD	1350	STEIN RD	SAINT CLAIR	MI	48079
1422 STEIN RD	1422	STEIN RD	SAINT CLAIR	MI	48079
1430 STEIN RD	1430	STEIN RD	SAINT CLAIR	MI	48079
1431 STEIN RD	1431	STEIN RD	SAINT CLAIR	MI	48079
1480 STEIN RD	1480	STEIN RD	SAINT CLAIR	MI	48079
1490 STEIN RD	1490	STEIN RD	SAINT CLAIR	MI	48079
1526 STEIN RD	1526	STEIN RD	SAINT CLAIR	MI	48079
1535 STEIN RD	1535	STEIN RD	SAINT CLAIR	MI	48079
1544 STEIN RD	1544	STEIN RD	SAINT CLAIR	MI	48079
1551 STEIN RD	1551	STEIN RD	SAINT CLAIR	MI	48079
1572 STEIN RD	1572	STEIN RD	SAINT CLAIR	MI	48079
1581 STEIN RD	1581	STEIN RD	SAINT CLAIR	MI	48079
1598 STEIN RD	1598	STEIN RD	SAINT CLAIR	MI	48079
1607 STEIN RD	1607	STEIN RD	SAINT CLAIR	MI	48079
1631 STEIN RD	1631	STEIN RD	SAINT CLAIR	MI	48079
1640 STEIN RD	1640	STEIN RD	SAINT CLAIR	MI	48079
6980 TRUMBLE LN	6980	TRUMBLE LN	SAINT CLAIR	MI	48079
7070 TRUMBLE LN	7070	TRUMBLE LN	SAINT CLAIR	MI	48079
7480 TRUMBLE RD	7480	TRUMBLE RD	SAINT CLAIR	MI	48079
942 TRUMBLE RD	942	TRUMBLE RD	SAINT CLAIR	MI	48079
7291 TRUMBLE RD	7291	TRUMBLE RD	SAINT CLAIR	MI	48079
7296 TRUMBLE RD	7296	TRUMBLE RD	SAINT CLAIR	MI	48079
7343 TRUMBLE RD	7343	TRUMBLE RD	SAINT CLAIR	MI	48079
7353 TRUMBLE RD	7353	TRUMBLE RD	SAINT CLAIR	MI	48079
7365 TRUMBLE RD	7365	TRUMBLE RD	SAINT CLAIR	MI	48079
7370 TRUMBLE RD	7370	TRUMBLE RD	SAINT CLAIR	MI	48079
7371 TRUMBLE RD	7371	TRUMBLE RD	SAINT CLAIR	MI	48079
7381 TRUMBLE RD	7381	TRUMBLE RD	SAINT CLAIR	MI	48079

7395 TRUMBLE RD	7395	TRUMBLE RD	SAINT CLAIR	MI	48079
7433 TRUMBLE RD	7433	TRUMBLE RD	SAINT CLAIR	MI	48079
7444 TRUMBLE RD	7444	TRUMBLE RD	SAINT CLAIR	MI	48079
7461 TRUMBLE RD	7461	TRUMBLE RD	SAINT CLAIR	MI	48079
7470 TRUMBLE RD	7470	TRUMBLE RD	SAINT CLAIR	MI	48079
7481 TRUMBLE RD	7481	TRUMBLE RD	SAINT CLAIR	MI	48079
7489 TRUMBLE RD	7489	TRUMBLE RD	SAINT CLAIR	MI	48079
7493 TRUMBLE RD	7493	TRUMBLE RD	SAINT CLAIR	MI	48079
7514 TRUMBLE RD	7514	TRUMBLE RD	SAINT CLAIR	MI	48079
5956 ULRICH TRAIL	5956	ULRICH TRAIL	SAINT CLAIR	MI	48079
4725 VELDON LN	4725	VELDON LN	SMITHS CREEK	MI	48074
2512 VINE RD	2512	VINE RD	SAINT CLAIR	MI	48079
2673 VINE RD	2673	VINE RD	SAINT CLAIR	MI	48079
2950 VINE RD	2950	VINE RD	SAINT CLAIR	MI	48079
2970 VINE RD	2970	VINE RD	SAINT CLAIR	MI	48079
2976 VINE RD	2976	VINE RD	SAINT CLAIR	MI	48079
3266 VINE RD	3266	VINE RD	SAINT CLAIR	MI	48079
3404 VINE RD	3404	VINE RD	SAINT CLAIR	MI	48079
3525 VINE RD	3525	VINE RD	SAINT CLAIR	MI	48079
4100 VINE RD	4100	VINE RD	SAINT CLAIR	MI	48079
4187 VINE RD	4187	VINE RD	SAINT CLAIR	MI	48079
4188 VINE RD	4188	VINE RD	SAINT CLAIR	MI	48079
5140 VINE RD	5140	VINE RD	SAINT CLAIR	MI	48079
5160 VINE RD	5160	VINE RD	SAINT CLAIR	MI	48079
5200 VINE RD	5200	VINE RD	SAINT CLAIR	MI	48079
5271 VINE RD	5271	VINE RD	SAINT CLAIR	MI	48079
5277 VINE RD	5277	VINE RD	SAINT CLAIR	MI	48079
5300 VINE RD	5300	VINE RD	SAINT CLAIR	MI	48079
5317 VINE RD	5317	VINE RD	SAINT CLAIR	MI	48079
5322 VINE RD	5322	VINE RD	SAINT CLAIR	MI	48079
5331 VINE RD	5331	VINE RD	SAINT CLAIR	MI	48079
5334 VINE RD	5334	VINE RD	SAINT CLAIR	MI	48079
5350 VINE RD	5350	VINE RD	SAINT CLAIR	MI	48079
5440 VINE RD	5440	VINE RD	SAINT CLAIR	MI	48079
5510 VINE RD	5510	VINE RD	SAINT CLAIR	MI	48079
5417 VINE RD	5417	VINE RD	SAINT CLAIR	MI	48079
5534 VINE RD	5534	VINE RD	SAINT CLAIR	MI	48079
5544 VINE RD	5544	VINE RD	SAINT CLAIR	MI	48079
5560 VINE RD	5560	VINE RD	SAINT CLAIR	MI	48079
5575 VINE RD	5575	VINE RD	SAINT CLAIR	MI	48079
5655 VINE RD	5655	VINE RD	SAINT CLAIR	MI	48079
5677 VINE RD	5677	VINE RD	SAINT CLAIR	MI	48079
5689 VINE RD	5689	VINE RD	SAINT CLAIR	MI	48079
5699 VINE RD	5699	VINE RD	SAINT CLAIR	MI	48079
5711 VINE RD	5711	VINE RD	SAINT CLAIR	MI	48079
5745 VINE RD	5745	VINE RD	SAINT CLAIR	MI	48079
5750 VINE RD	5750	VINE RD	SAINT CLAIR	MI	48079
5840 VINE RD	5840	VINE RD	SAINT CLAIR	MI	48079
5845 VINE RD	5845	VINE RD	SAINT CLAIR	MI	48079
5864 VINE RD	5864	VINE RD	SAINT CLAIR	MI	48079
5888 VINE RD	5888	VINE RD	SAINT CLAIR	MI	48079
5899 VINE RD	5899	VINE RD	SAINT CLAIR	MI	48079
4480 VELDON LN	4480	VELDON LN	SAINT CLAIR	MI	48079
11 WADHAMS RD	11	WADHAMS RD	SAINT CLAIR	MI	48079
17 WADHAMS RD	17	WADHAMS RD	SAINT CLAIR	MI	48079
20 WADHAMS RD	20	WADHAMS RD	SAINT CLAIR	MI	48079
31 WADHAMS RD	31	WADHAMS RD	SAINT CLAIR	MI	48079
151 WADHAMS RD	151	WADHAMS RD	SAINT CLAIR	MI	48079

181 WADHAMS RD	181	WADHAMS RD	SAINT CLAIR	MI	48079
194 WADHAMS RD	194	WADHAMS RD	SAINT CLAIR	MI	48079
195 WADHAMS RD	195	WADHAMS RD	SAINT CLAIR	MI	48079
206 WADHAMS RD	206	WADHAMS RD	SAINT CLAIR	MI	48079
207 WADHAMS RD	207	WADHAMS RD	SAINT CLAIR	MI	48079
215 WADHAMS RD	215	WADHAMS RD	SAINT CLAIR	MI	48079
218 WADHAMS RD	218	WADHAMS RD	SAINT CLAIR	MI	48079
226 WADHAMS RD	226	WADHAMS RD	SAINT CLAIR	MI	48079
227 WADHAMS RD	227	WADHAMS RD	SAINT CLAIR	MI	48079
232 WADHAMS RD	232	WADHAMS RD	SAINT CLAIR	MI	48079
233 WADHAMS RD	233	WADHAMS RD	SAINT CLAIR	MI	48079
240 WADHAMS RD	240	WADHAMS RD	SAINT CLAIR	MI	48079
268 WADHAMS RD	268	WADHAMS RD	SAINT CLAIR	MI	48079
271 WADHAMS RD	271	WADHAMS RD	SAINT CLAIR	MI	48079
272 WADHAMS RD	272	WADHAMS RD	SAINT CLAIR	MI	48079
277 WADHAMS RD	277	WADHAMS RD	SAINT CLAIR	MI	48079
288 WADHAMS RD	288	WADHAMS RD	SAINT CLAIR	MI	48079
299 WADHAMS RD	299	WADHAMS RD	SAINT CLAIR	MI	48079
304 WADHAMS RD	304	WADHAMS RD	SAINT CLAIR	MI	48079
345 WADHAMS RD	345	WADHAMS RD	SAINT CLAIR	MI	48079
355 WADHAMS RD	355	WADHAMS RD	SAINT CLAIR	MI	48079
360 WADHAMS RD	360	WADHAMS RD	SAINT CLAIR	MI	48079
363 WADHAMS RD	363	WADHAMS RD	SAINT CLAIR	MI	48079
370 WADHAMS RD	370	WADHAMS RD	SAINT CLAIR	MI	48079
400 WADHAMS RD	400	WADHAMS RD	SAINT CLAIR	MI	48079
404 WADHAMS RD	404	WADHAMS RD	SAINT CLAIR	MI	48079
443 WADHAMS RD	443	WADHAMS RD	SAINT CLAIR	MI	48079
448 WADHAMS RD	448	WADHAMS RD	SAINT CLAIR	MI	48079
454 WADHAMS RD	454	WADHAMS RD	SAINT CLAIR	MI	48079
464 WADHAMS RD	464	WADHAMS RD	SAINT CLAIR	MI	48079
475 WADHAMS RD	475	WADHAMS RD	SAINT CLAIR	MI	48079
489 WADHAMS RD	489	WADHAMS RD	SAINT CLAIR	MI	48079
501 WADHAMS RD	501	WADHAMS RD	SAINT CLAIR	MI	48079
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548 WADHAMS RD	548	WADHAMS RD	SAINT CLAIR	MI	48079
564 WADHAMS RD	564	WADHAMS RD	SAINT CLAIR	MI	48079
587 WADHAMS RD	587	WADHAMS RD	SAINT CLAIR	MI	48079
588 WADHAMS RD	588	WADHAMS RD	SAINT CLAIR	MI	48079
707 WADHAMS RD	707	WADHAMS RD	SAINT CLAIR	MI	48079
717 WADHAMS RD	717	WADHAMS RD	SAINT CLAIR	MI	48079
737 WADHAMS RD	737	WADHAMS RD	SAINT CLAIR	MI	48079
747 WADHAMS RD	747	WADHAMS RD	SAINT CLAIR	MI	48079
755 WADHAMS RD	755	WADHAMS RD	SAINT CLAIR	MI	48079
759 WADHAMS RD	759	WADHAMS RD	SAINT CLAIR	MI	48079
763 WADHAMS RD	763	WADHAMS RD	SAINT CLAIR	MI	48079
766 WADHAMS RD	766	WADHAMS RD	SAINT CLAIR	MI	48079
769 WADHAMS RD	769	WADHAMS RD	SAINT CLAIR	MI	48079
808 WADHAMS RD	808	WADHAMS RD	SAINT CLAIR	MI	48079
810 WADHAMS RD	810	WADHAMS RD	SAINT CLAIR	MI	48079
811 WADHAMS RD	811	WADHAMS RD	SAINT CLAIR	MI	48079
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900 WADHAMS RD	900	WADHAMS RD	SAINT CLAIR	MI	48079
925 WADHAMS RD	925	WADHAMS RD	SAINT CLAIR	MI	48079
937 WADHAMS RD	937	WADHAMS RD	SAINT CLAIR	MI	48079

950 WADHAMS RD	950	WADHAMS RD	SAINT CLAIR	MI	48079
957 WADHAMS RD	957	WADHAMS RD	SAINT CLAIR	MI	48079
959 WADHAMS RD	959	WADHAMS RD	SAINT CLAIR	MI	48079
979 WADHAMS RD	979	WADHAMS RD	SAINT CLAIR	MI	48079
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1982 WADHAMS RD	1982	WADHAMS RD	SAINT CLAIR	MI	48079
2030 WADHAMS RD	2030	WADHAMS RD	SAINT CLAIR	MI	48079
2033 WADHAMS RD	2033	WADHAMS RD	SAINT CLAIR	MI	48079
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2131 WADHAMS RD	2131	WADHAMS RD	SAINT CLAIR	MI	48079
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2241 WADHAMS RD	2241	WADHAMS RD	SAINT CLAIR	MI	48079
2245 WADHAMS RD	2245	WADHAMS RD	SAINT CLAIR	MI	48079
2276 WADHAMS RD	2276	WADHAMS RD	SAINT CLAIR	MI	48079
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2343 WADHAMS RD	2343	WADHAMS RD	SAINT CLAIR	MI	48079
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10 WELSER WAY	10	WELSER WAY	SAINT CLAIR	MI	48079
1275 WELSER WAY	1275	WELSER WAY	SAINT CLAIR	MI	48079
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7379 YAGER RD	7379	YAGER RD	SAINT CLAIR	MI	48079
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4600 YANKEE RD	4600	YANKEE RD	SAINT CLAIR	MI	48079
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4880 YANKEE RD	4880	YANKEE RD	SAINT CLAIR	MI	48079
4916 YANKEE RD	4916	YANKEE RD	SAINT CLAIR	MI	48079
4990 YANKEE RD	4990	YANKEE RD	SAINT CLAIR	MI	48079
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5312 YANKEE RD	5312	YANKEE RD	SAINT CLAIR	MI	48079
5313 YANKEE RD	5313	YANKEE RD	SAINT CLAIR	MI	48079
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5440 YANKEE RD	5440	YANKEE RD	SAINT CLAIR	MI	48079
5463 YANKEE RD	5463	YANKEE RD	SAINT CLAIR	MI	48079
5470 YANKEE RD	5470	YANKEE RD	SAINT CLAIR	MI	48079
5555 YANKEE RD	5555	YANKEE RD	SAINT CLAIR	MI	48079
5569 YANKEE RD	5569	YANKEE RD	SAINT CLAIR	MI	48079



Dec. 28, 2020

RE: Letter of Commitment St. Clair Township Project; CMIC

To Whom it may Concern,

Yukon Construction, Inc., will provide construction services to Duke Broadband Inc. for the St.Clair Township Network Project. Yukon will finance the project [REDACTED]

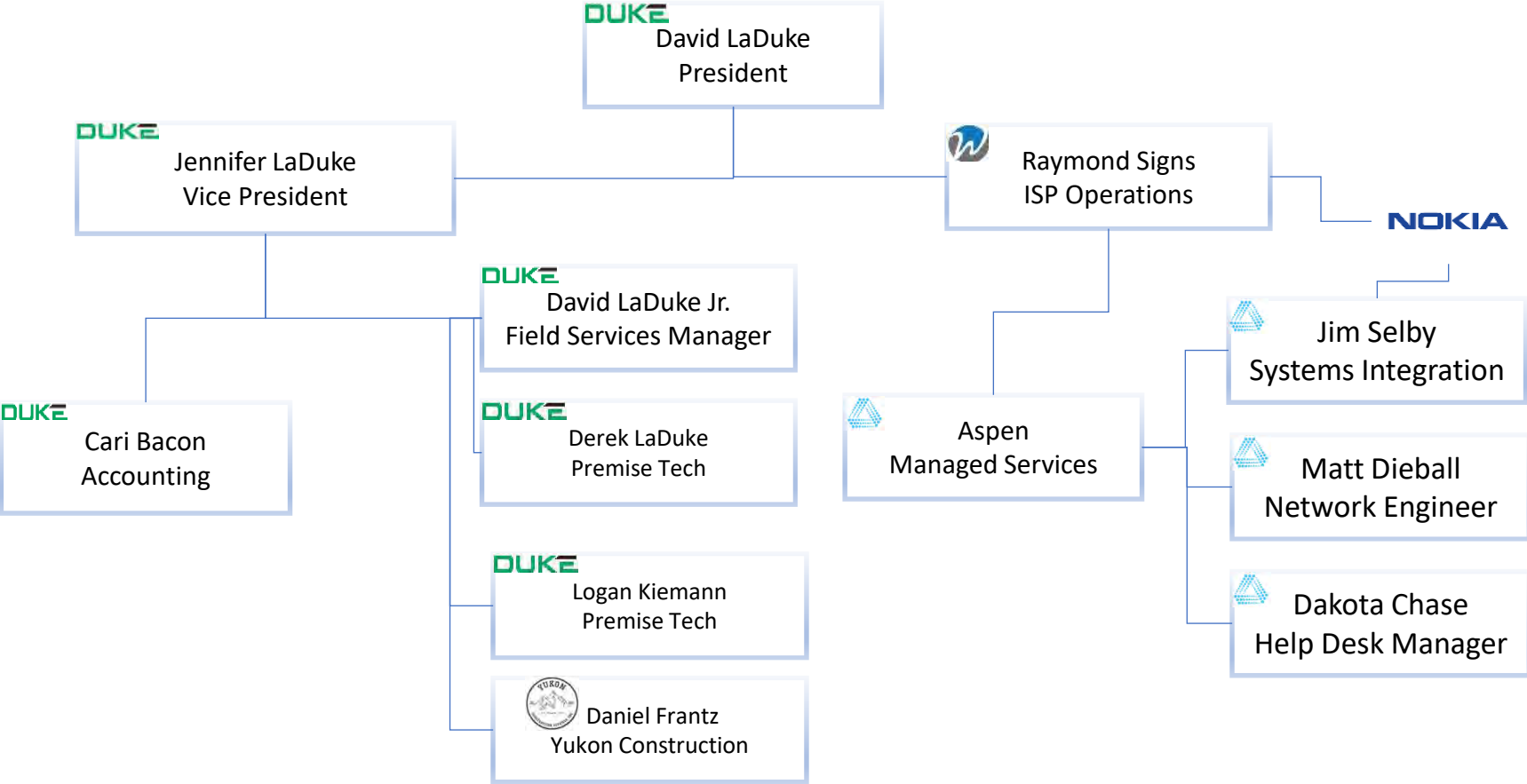
[REDACTED]

Sincerely,

A handwritten signature in blue ink, appearing to read "J Laduke".

Jennifer Laduke
CEO / Owner
Yukon Construction, Inc
jladuke@yukoncs.com

Duke Broadband Organizational Chart



RAYMOND SIGNS

SUMMARY

20+ years of progressive success including extensive experience in telecommunications. Able to apply a blend of strategic, technical, and tactical skills to translate overall business objectives into practical, feasible and measurable roadmaps

PROFESSIONAL HISTORY

Wideband Group, LLC — Lansing, MI October †2017 – 2020

OWNER / PRESIDENT

Technology consulting & integration company focused on fiber and wireless, successfully partnering with other companies for service delivery. Engagements include FTTH project & construction management for Coldwater Public Board of Utilities, T-Mobile DAS integrations, FTTH feasibility study for Conway Township, Michigan; deliverables included infrastructure-only network strategy, business model and financial proforma. Long-term engagement with Steuben County Indiana Fiber Network consulting with the board of directors on how to best position the network within the fiber and wireless ecosystem to serve the broadband needs of this rural county.

Earthcom, Inc. — Lansing, MI † 2011 – 2017

PRESIDENT

Promoted to lead this \$12M annual revenue fiber and wireless construction company. Developed a new sense of direction as the owner shifted away from leading day-to-day company activities. Worked alongside the GC who was promoted to VP and an expert accounting consultant to reorganize the company's books and identify areas for elimination and opportunities for growth. Improve the company's approach to the customer that willfully accepts scope gaps and turns them into value-added opportunities. Customers included Crown Castle, Ericsson, Merit Networks, Midwest Energy, Sprint, T-Mobile and Verizon.

Arialink — Lansing, MI † 2001 – 2011

PARTNER / VICE PRESIDENT

Instrumental co-founder and contributor to strategic business development, operations, and expansion of data / telecom service provider specializing in fiber optics and wireless technologies. Built from 0 to \$8M company, successfully sold to Zayo for \$18M.

Member of executive team focused on identifying and pursuing new business opportunities. Forged and cultivated productive relationships with clients to ensure superior levels of satisfaction, retention, and referrals. Managed performance reviews, regulatory / standard compliance, reporting, policy / procedure development, and research / selection of new technologies to optimize as well as expand operational capacity. Spearheaded operational efforts focused on effectively implementing business plans within organization's Network Operation Center encompassing network architecture, engineering quality, customer service, ordering, and resources management.

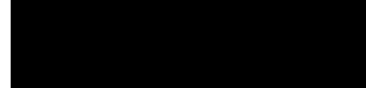
EDUCATION

Michigan State University, East Lansing, MI

- o **Master of Business Administration (MBA)** – Focus: Business Information Systems, Minor: Entrepreneurship, 2001
- o **Bachelor of Science (BS) in Resource Development**, 1987



Jim Selby



PROFILE

As an industry entrepreneur and pioneer wireless internet service provider, Jim Selby specializes in advanced broadband technologies such as Licensed Exempt Frequencies, xPON, Active Ethernet, Municipal Wi-Fi, 802.11 evolutions with a focus on applications, business strategy, systems architecture, product development and service delivery. Dubbed the “Wireless Guerrilla” by the Wall Street Journal, Selby’s expertise was called on Homeland Security events like the Presidential Inauguration where he was the first to use licensed exempt frequency in mission critical applications.

Recent accomplishments include the successful sale, engineering and deployment of the Town of Vail Fiber Wi-Fi network, where Selby was selected over notable major players such as AT&T, Qwest, Nortel and others. Selby laid the foundation for fiber and wireless architecture and infrastructure involved in this carrier’s Municipal Wi-Fi, National Hotspot Network and Point to Point technologies.

Utilizing his expertise in product development and manufacturing methodologies, Selby founded a Wi-Fi Mesh startup and established of a successful wireless distribution startup which continues to produce millions of dollars in equipment sales annually.

Possessing deep technical skills combined with leadership experience Selby has practical hands-on experience of deploying thousands of network devices worldwide.

EXPERIENCE

MANAGING PARTNER AT ASPEN WIRELESS TECHNOLOGIES, LLC — 2001-PRESENT

- Provide highly specialized, technology-neutral business consulting for the telecom industry
- Specialize in license-exempt wireless and Internet technologies including Muni Wi-Fi and Hot Spots, Mesh, Video, Data, Mobility, and Public Safety applications
- Design carrier-grade turnkey systems
- Engineer networks that provide maximum ROI
- Create business case and Capex models for Municipal Networks
- System integration expertise in over 28 manufacturers
- Sales of leading fiber and wireless technologies such as Active Ethernet and Mesh networking
- World-renowned for notable accomplishments in licensed exempt frequency
- Train executive staff and technical teams

VP OF WIRELESS TECHNOLOGIES AT CENTURYTEL NYSE:CTL— 2005-2007

- Designed, won and implemented the Vail Municipal Wi-Fi Network over major competitors
- Created the OSS with location-based services, HTML injection, Ensemble integration and roaming
- Won every RFP response entered
- Designed a national Wi-Fi Hot Spot architecture increasing subscriber retention
- Produced technology at 45% cost of other vendor solutions
- Evaluated and selected all wireless technologies
- Refined Municipal Wi-Fi business plans that return greater than 20% IRR
- Exploited existing CenturyTel assets dramatically increasing territory
- Transferred wireless knowledge and increased mindshare throughout the regional offices.

- Created new efficiencies and lower cost through standardization of solutions while integrating into legacy systems.
- Orchestrated the Eng, Ops, IS and Marketing teams to achieve a tight deadline.
- Developed a Wireless budget and capex model for wireless networks

FOUNDER AND MANAGING PARTNER AT DEFACTO WIRELESS — 2003-2005

- Defacto Wireless has become a prominent global distributor of advanced wireless broadband technologies. Defacto supplies all aspects of wireless technology. As founder and managing partner Selby was responsible for Strategy, vendor relationships, logistics to product development and sales training.

CHIEF TECHNOLOGY OFFICER AT NATIONAL BROADBAND — 2002-2003

- Founder of first nationwide broadband wireless network covering 38 states, 420 POPs and over 18,000 route-miles of fiber optics
- First to Architect paradigm technology "Mid-Stage Injection" later copied by Telegent and WiTel
- Negotiated an exclusive contract with a national fiber optic network
- Assisted in solidifying \$28MM in funding for this venture
- Created a truly disruptive technology ahead of its time
- Shaped technology negotiation points between NBB and its vendors
- Designed and deployed two Network Operation Centers, billing system infrastructures with SLA metering

FOUNDER AND CEO AT ASPENWAVE — 1999-2001

- Founded, engineered and deployed one of the first ubiquitous citywide Wi-Fi networks in Aspen, Colorado.
- Innovated network attracted attention and provided inspiration to others – think WISP's, Hotspots, Boingo and Tropos metro Wi-Fi. Dubbed the "Wireless Guerrilla", Selby
- pioneered the way for alternative access to the Internet using license exempt technologies and at the time unconventional methods.
- Covered over 120 square miles with Wi-Fi
- Evolved the technology in outdoor 802.11 protocol
- Created marketing buzz
- Put Wi-Fi on the map as a viable broadband solution for mass subscribers
- One of first Muni Wi-Fi builds in the world
- Resourced on a shoe-string budget

EDUCATION

Central Michigan University — Bachelor of Science, 1988

HONORS & AWARDS

Wall Street Journal, National Public Radio, Wired Magazine, Forbes, Tech TV, USA Today, San Jose Mercury, Christian Science Monitor, Denver Post, Denver Rocky Mountain News, Aspen Magazine, Broadband Wireless Magazine, Telecom in the Valley TV and Geek Speak Radio. Featured as a keynote speaker at Broadband Wireless World Forum, The FCC Service Provider Showcase, The Colorado Rural Broadband Initiative, Progress and Freedom Foundation, WISPCON, Telluride Technology Festival and the Wireless Communications Association.

Cari Bacon

Education

Baker College of Port Huron

3403 Lapeer Road, Port Huron MI 48060
Associate Degree, Accounting, June 1995
Bachelor of Business Leadership, June 1997

St. Clair County Technical Education Center

499 Range Road, Port Huron MI 48060
Certified Financial Assistant, June 1992

Qualifications

Trained in computerized accounting - Quickbooks

- Accounts Payable, Accounts Receivable, Payroll

Knowledgeable in Google Docs & Spreadsheets

- Excellent verbal and written communication skills
- Excellent organizational skills

Related Activities

Volunteer at Gateway Church in Marysville as assistant treasurer 2019 - present

Volunteered at Washington Elementary School 2015-2016

- Assisted teacher in timed student readings, record keeping and other miscellaneous tasks

Volunteered at Marysville Cooperative Preschool 1999-2004 and 2009

- Served on the board as secretary, assistant treasurer and occasional paid position of substitute teacher

Work Experience

01/2017 to

Yukon Construction Services, Inc.

Present

1341 S. Range Rd, St Clair, MI. 48079

Office Assistant

06/2008 to

Charlie's Auto & Truck, Inc.

12/2009

1504 24th Street, Port Huron, MI 48060

(business closed)

Bookkeeper

1/1993 to

Pine River Plastics, Inc.

1/1997

1111 Fred Moore Hwy, St. Clair MI 48079

(business closed)

Accounts Receivable, Accounts Payable and Hourly Payroll

REFERENCES FURNISHED UPON REQUEST

Michael Reen



SUMMARY

Multi-dimensional and readily adaptable to dynamic project development challenges with strong construction and telecommunication industry project development experience and technical skills. A creative problem solver blending a uniquely multi-faceted background effectively for client success.

EXPERIENCE

Aspen Wireless Technologies Inc.—Maple City, Mi. 2018-Present

Municipal FTTX Program Manager/Lead Outside Plant Designer

A Design-Build-Operate-Maintain Broadband Engineering and Consulting firm.

Responsible for initial Project Development and complete OSP Design. Actively coordinates with construction project management, contractors, and staff to ensure smooth project implementation and problem solving field challenges.

City of Marshall FiberNet.—Marshall Mi. 2017-2018

Customer Service and Marketing Manager

A Startup Municipal Telecommunications Utility

Responsible for customer identification, onboarding, installation and service for utility customer base. Key input provider for network design and implementation. Liaison with city staff and department management. Instrumental in establishing best practices for startup telco utility.

AT&T Wireline Division.—San Diego CA/Battle Creek MI. 2012-2017

International Provider of Telecommunication Services

Field services technician tasked with installation and repair of voice, video and internet services through IPDSL, VDSL, Fiber Optic, and Satellite delivery methods.

Education and Personal Development

Western Michigan University, Kalamazoo, MI

Bachelor of Science, Public Administration, 1997

United States Navy-Special Operations Group One 1989-1995

Explosive Ordnance Disposal, Naval Parachutist, Navy Diver, Marine Mammal Systems Operator

Jennifer LaDuke

Professional Summary

Accomplished President offering 17 years of progressive experience in utility construction. Adept at managing operations, financial administration, and key program areas.

Skills

- Financial administration
- Financial management
- Business administration
- Business planning

Work History

Vice President, 07/2020 to Current

Duke Broadband Inc – St Clair, MI

- Identified opportunities to improve business process flows and overall departmental productivity.
- Established and administered annual budget with effective controls to prevent overages, minimize burn rate and support sustainable objectives.
- Established clear management goals and devised system to track results for effective decision making.
- Applies performance data to evaluate and improve operations, target current business conditions, and forecast needs.

President, 06/2004 to current

Yukon Construction Services Inc – St Clair, MI

- Reduced cost by overhauling and streamlining contract bidding and procurement processes to assure best prices for materials and services.
- Resolved issues and recommended actions based on production and compliance reports.
- Increased efficiency by analyzing data and maximizing opportunities for improved productivity across several areas. Identified opportunities to improve business process flows and overall department productivity.
- Supervised daily operations of utility construction operation.
- Identified and solved issues with production, work force and material sourcing to drive business objectives.

Education

High School Diploma

St Clair High School – St Clair



Yukon History Timeline

2004

Started Yukon Construction DBA, doing Geothermal Loop Fields on the weekend.

2005

Hired my first two employees. Yukon Construction joined IBEW Local 17 union, and then negotiated contract with LeCom Communications doing Telecommunication work for Comcast, along with Harlan Electric install conduits for DTE Street lights.

2009

Yukon grew so I needed to become Incorporated (Yukon Construction Services Inc)

2010

Yukon became a vendor for ATT and also obtained WBE Certificate/WOSB Certificate

2013

I became a vendor for Semco Energy and landed a contract with Superior Electric doing streetlights for GM Warren Tech Center. Working on GM Property I need to have a Drug and Alcohol Program along with OSHA training. I joined the MUST Drug and Alcohol Program

2015

I teamed up with Scotty's Underground to install telecommunications for WOW. I bought a shop that has large outside building storage with an office building.

2016-current

I finally after many years trying, I was able to get a DTE Vendor. I joined the golden shovel to help with my DTE Vendor. By this time Yukon has worked for Verizon, 123.net, Comcast and AT&T in telecommunication along with Gas Distribution, Electric Work and Fiber Optics for security cameras at various auto plants.



Dave LaDuke

Professional Summary Responsible Construction Superintendent with over 30 years of comprehensive experience leading teams up to 100 employees and many contractors. Outstanding blueprint and design interpretation and comprehensive abilities with excellent communication, budgeting and project management talents. Extensive knowledge of all construction sub-trades, construction material and supplies

Skills

- Construction Management
- Staff Leadership and Direction
- Project Management
- Operations Management
- Project Estimating and Bidding
- Conflict Resolution
- Effective Communication
- Strategic Planning
- Site Monitoring
- Utility Line Construction

Work History Construction Superintendent / Rauhorn Electric, Motor City Electric, Yukon Construction

- Enhanced company development initiatives by solving complex issues and suggesting corrective action
- Collaborated with management, technical crew members and fellow supervisors to organize efficient operations and achieve demanding schedule targets
- Studied and interpreted blueprints to plan construction phases and team assignments.
- Coordinated materials to maintain steady flow and meet productivity objectives
- Organized and optimized daily operations of utility construction crews with consistent on time delivery
- Delegated assignments based on construction plans, project needed and knowledge on individual team members
- Interacted daily with various project managers, subcontractors and municipal inspectors to complete construction projects
- Helped successfully complete multi-million dollar utility construction projects ahead of schedule
- Handled construction tools and machinery to effectively complete projects

Education St Clair High School

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ACCOUNTANT'S COMPILATION REPORT

Board of Directors
Yukon Construction Services, Inc.
Casco, MI

Management is responsible for the accompanying financial statements of Yukon Construction Services, Inc. (an S corporation), which comprise the balance sheets as of December 31, 2017 and 2016, and the related statements of income and retained earnings and cash flows for the years then ended, in accordance with accounting principles generally accepted in the United States of America. We have performed a compilation engagement in accordance with Statements on Standards for Accounting and Review Services promulgated by the Accounting and Review Services Committee of the AICPA. We did not audit or review the financial statements nor were we required to perform any procedures to verify the accuracy or completeness of the information provided by management. Accordingly, we do not express an opinion, a conclusion, nor provide any form of assurance on these financial statements.

Management has elected to omit substantially all of the disclosures required by accounting principles generally accepted in the United States of America. If the omitted disclosures were included in the financial statements, they might influence the user's conclusions about the Company's financial position, results of operations and cash flows. Accordingly, the financial statements are not designed for those who are not informed about such matters.

The Company has elected to be taxed under the provisions of Subchapter S of the Internal Revenue Code. Under those provisions, the Company does not pay federal corporate income taxes on its taxable income. Shareholders are taxed on their proportionate share of the Company's taxable income.

Supplementary Information

The accompanying supplementary information contained in the Schedules of Cost of Sales and Operating Expenses are presented for purposes of additional analysis and are not a required part of the basic financial statements. Such information is the responsibility of management. The supplementary information was subject to our compilation engagement. We have not audited or reviewed the supplementary information and do not express an opinion, a conclusion, nor provide any form of assurance on such supplementary information.

Austin, Niester, Schwehofer & Finnegan, P.C.

Certified Public Accountants

April 13, 2018

YUKON CONSTRUCTION SERVICES, INC.

BALANCE SHEETS

December 31, 2017 and 2016

	<u>2017</u>	<u>2016</u>
[REDACTED]		
[REDACTED]	\$ [REDACTED]	\$ [REDACTED]
[REDACTED]	[REDACTED]	[REDACTED]
[REDACTED]	[REDACTED]	[REDACTED]
[REDACTED]	[REDACTED]	[REDACTED]
[REDACTED]	[REDACTED]	[REDACTED]
[REDACTED]	\$ [REDACTED]	\$ [REDACTED]

	<u>2017</u>	<u>2016</u>
[REDACTED]	\$ [REDACTED]	\$ [REDACTED]
[REDACTED]	[REDACTED]	[REDACTED]
[REDACTED]	[REDACTED]	[REDACTED]
[REDACTED]	[REDACTED]	[REDACTED]



CERTIFIED PUBLIC ACCOUNTANTS

YUKON CONSTRUCTION SERVICES, INC.

STATEMENTS OF INCOME AND RETAINED EARNINGS

Years ended December 31, 2017 and 2016

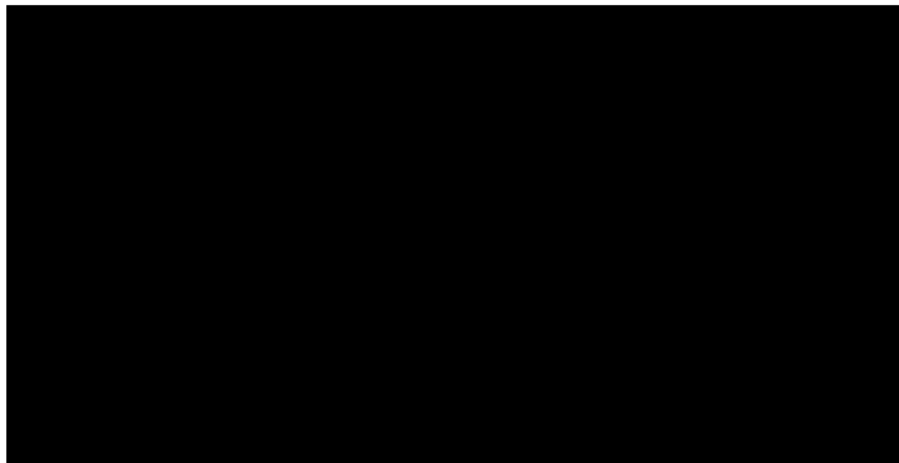
	<u>2017</u>	<u>2016</u>
[REDACTED]	\$ [REDACTED]	\$ [REDACTED]
[REDACTED]	[REDACTED]	[REDACTED]
[REDACTED]	[REDACTED]	[REDACTED]
[REDACTED]	[REDACTED]	[REDACTED]
[REDACTED]	[REDACTED]	[REDACTED]
[REDACTED]	[REDACTED]	[REDACTED]
[REDACTED]	[REDACTED]	[REDACTED]
[REDACTED]	\$ [REDACTED]	\$ [REDACTED]

YUKON CONSTRUCTION SERVICES, INC.

STATEMENTS OF CASH FLOWS

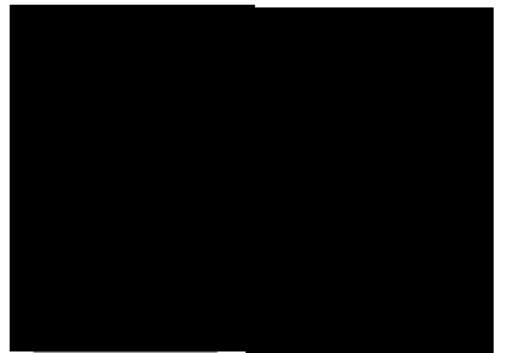
Years ended December 31, 2017 and 2016

	<u>2017</u>	<u>2016</u>
[REDACTED]	\$ [REDACTED]	\$ [REDACTED]
[REDACTED]	[REDACTED]	[REDACTED]
[REDACTED]	[REDACTED]	[REDACTED]
[REDACTED]	[REDACTED]	[REDACTED]
[REDACTED]	[REDACTED]	[REDACTED]
[REDACTED]	\$ [REDACTED]	[REDACTED]



2017

2016



SUPPLEMENTARY INFORMATION

YUKON CONSTRUCTION SERVICES, INC.

SCHEDULES OF COST OF SALES
AND OPERATING EXPENSES

Years ended December 31, 2017 and 2016

	<u>2017</u>	<u>2016</u>
[REDACTED]	[REDACTED]	[REDACTED]

FINANCIAL STATEMENTS
YUKON CONSTRUCTION SERVICES, INC.
DECEMBER 31, 2018

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ACCOUNTANT'S COMPILATION REPORT

Board of Directors
Yukon Construction Services, Inc.
Casco, MI

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Supplementary Information

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Austin, Niester, Schwehofer & Finnegan, P.C.

Certified Public Accountants

April 18, 2019
Port Huron, Michigan

YUKON CONSTRUCTION SERVICES, INC.

BALANCE SHEETS

December 31, 2018 and 2017

	<u>2018</u>	<u>2017</u>
[REDACTED]		
[REDACTED]	\$ [REDACTED]	\$ [REDACTED]
[REDACTED]	[REDACTED]	[REDACTED]
[REDACTED]	[REDACTED]	[REDACTED]
[REDACTED]	[REDACTED]	[REDACTED]
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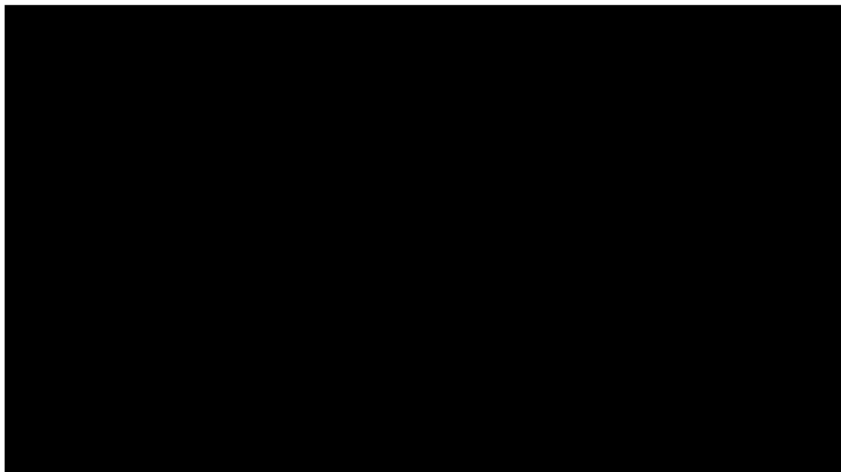
	<u>2018</u>	<u>2017</u>
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[REDACTED]	[REDACTED]	[REDACTED]
[REDACTED]	[REDACTED]	[REDACTED]
[REDACTED]	[REDACTED]	[REDACTED]
[REDACTED]	[REDACTED]	[REDACTED]
[REDACTED]	[REDACTED]	[REDACTED]
[REDACTED]	[REDACTED]	[REDACTED]
[REDACTED]	[REDACTED]	[REDACTED]
[REDACTED]	[REDACTED]	[REDACTED]
[REDACTED]	[REDACTED]	[REDACTED]
[REDACTED]	[REDACTED]	[REDACTED]
[REDACTED]	[REDACTED]	[REDACTED]
[REDACTED]	[REDACTED]	[REDACTED]
[REDACTED]	[REDACTED]	[REDACTED]

YUKON CONSTRUCTION SERVICES, INC.

STATEMENTS OF INCOME AND RETAINED EARNINGS

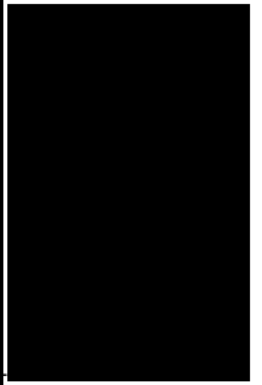
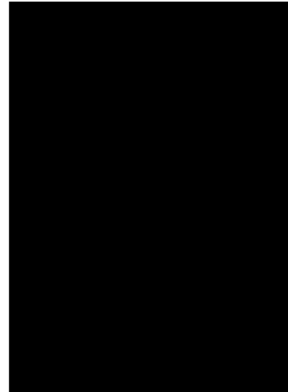
Years ended December 31, 2018 and 2017

	<u>2018</u>	<u>2017</u>
[REDACTED]	[REDACTED]	[REDACTED]
[REDACTED]	[REDACTED]	[REDACTED]
[REDACTED]	[REDACTED]	[REDACTED]
[REDACTED]	[REDACTED]	[REDACTED]
[REDACTED]	[REDACTED]	[REDACTED]
[REDACTED]	[REDACTED]	[REDACTED]
[REDACTED]	[REDACTED]	[REDACTED]
[REDACTED]	[REDACTED]	[REDACTED]
[REDACTED]	[REDACTED]	[REDACTED]
[REDACTED]	[REDACTED]	[REDACTED]
[REDACTED]	[REDACTED]	[REDACTED]



2018

2017

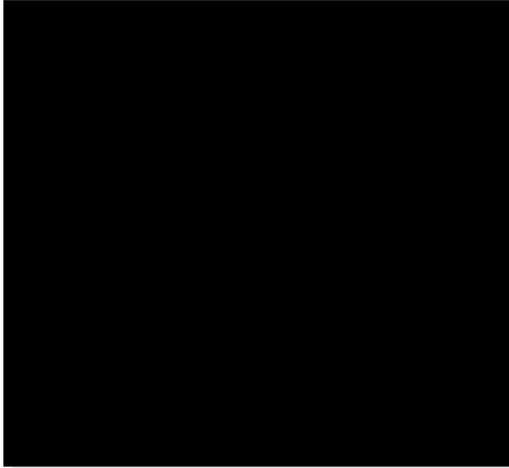


SUPPLEMENTARY INFORMATION

YUKON CONSTRUCTION SERVICES, INC.

SCHEDULES OF COST OF SALES
AND OPERATING EXPENSES

Years ended December 31, 2018 and 2017



<u>2018</u>	<u>2017</u>
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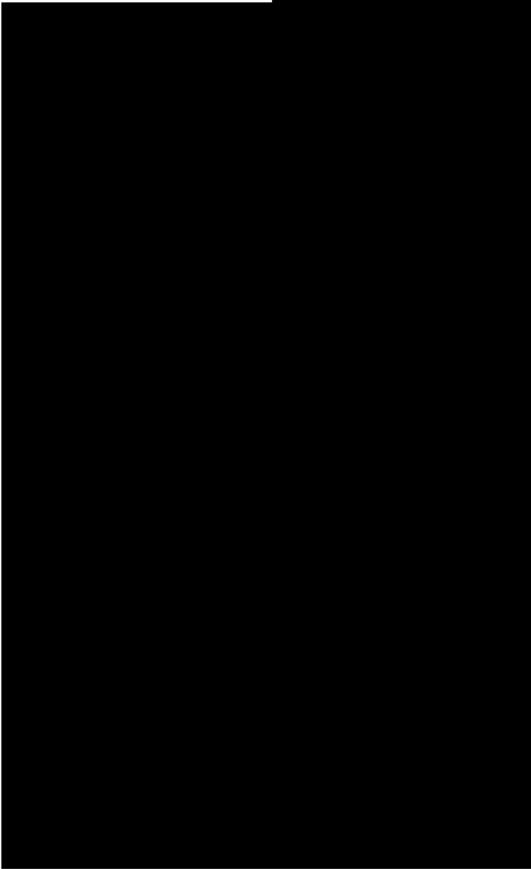
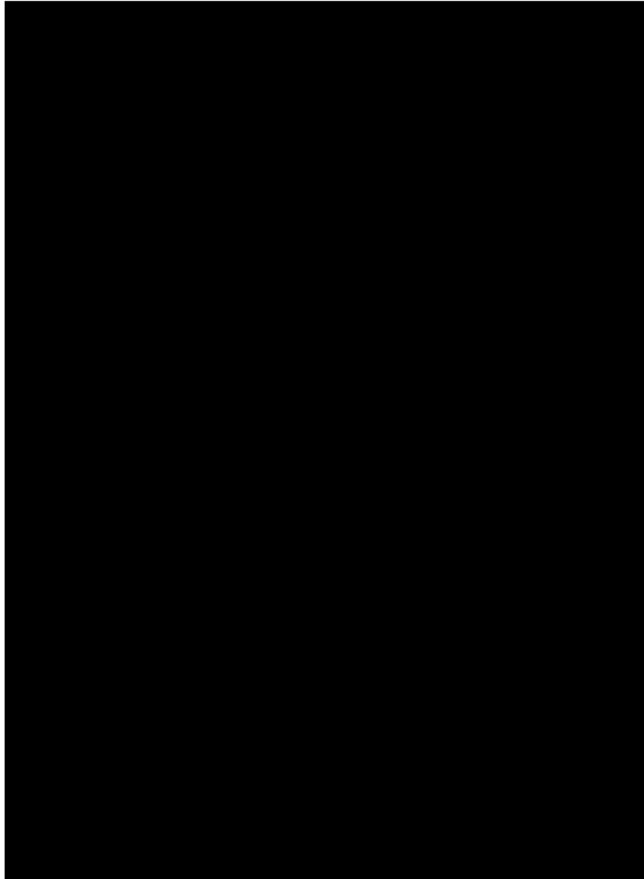


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ACCOUNTANT'S COMPILATION REPORT

Board of Directors
Yukon Construction Services, Inc.
Casco, MI

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Austin, Niester, Schwehofer & Finnegan, P.C.

Certified Public Accountants

April 23, 2020
Port Huron, Michigan

YUKON CONSTRUCTION SERVICES, INC.

BALANCE SHEETS

December 31, 2019 and 2018

	<u>2019</u>	<u>2018</u>
[REDACTED]	[REDACTED]	[REDACTED]
[REDACTED]	[REDACTED]	[REDACTED]
[REDACTED]	[REDACTED]	[REDACTED]
[REDACTED]	[REDACTED]	[REDACTED]
[REDACTED]	[REDACTED]	[REDACTED]
[REDACTED]	[REDACTED]	[REDACTED]
[REDACTED]	[REDACTED]	[REDACTED]

	<u>2019</u>	<u>2018</u>

YUKON CONSTRUCTION SERVICES, INC.
STATEMENTS OF INCOME AND RETAINED EARNINGS
Years ended December 31, 2019 and 2018

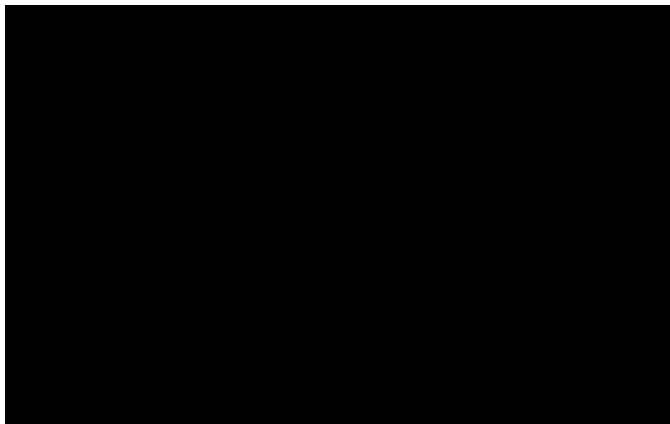
	<u>2019</u>	<u>2018</u>
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[REDACTED]	[REDACTED]	[REDACTED]
[REDACTED]	[REDACTED]	[REDACTED]
[REDACTED]	[REDACTED]	[REDACTED]
[REDACTED]	[REDACTED]	[REDACTED]
[REDACTED]	[REDACTED]	[REDACTED]
[REDACTED]	[REDACTED]	[REDACTED]
[REDACTED]	[REDACTED]	[REDACTED]
[REDACTED]	[REDACTED]	[REDACTED]
[REDACTED]	[REDACTED]	[REDACTED]
[REDACTED]	[REDACTED]	[REDACTED]
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YUKON CONSTRUCTION SERVICES, INC.

STATEMENTS OF CASH FLOWS

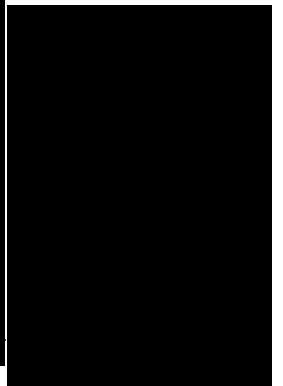
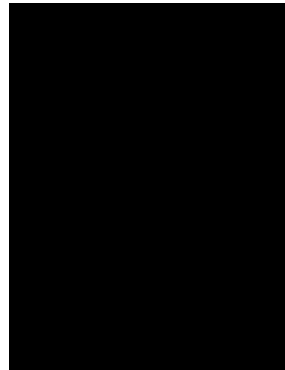
Years ended December 31, 2019 and 2018

	<u>2019</u>	<u>2018</u>
[REDACTED]	[REDACTED]	[REDACTED]
[REDACTED]	[REDACTED]	[REDACTED]
[REDACTED]	[REDACTED]	[REDACTED]
[REDACTED]	[REDACTED]	[REDACTED]
[REDACTED]	[REDACTED]	[REDACTED]
[REDACTED]	[REDACTED]	[REDACTED]
[REDACTED]	[REDACTED]	[REDACTED]
[REDACTED]	[REDACTED]	[REDACTED]
[REDACTED]	[REDACTED]	[REDACTED]
[REDACTED]	[REDACTED]	[REDACTED]



2019

2018

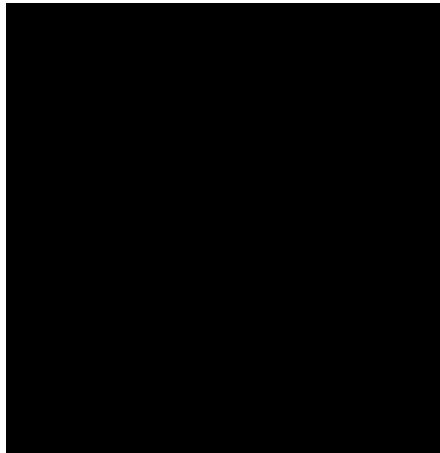

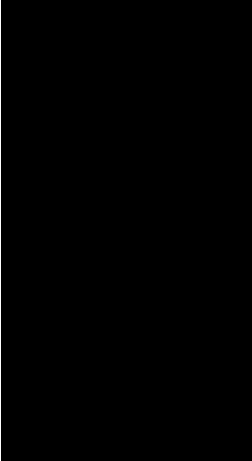
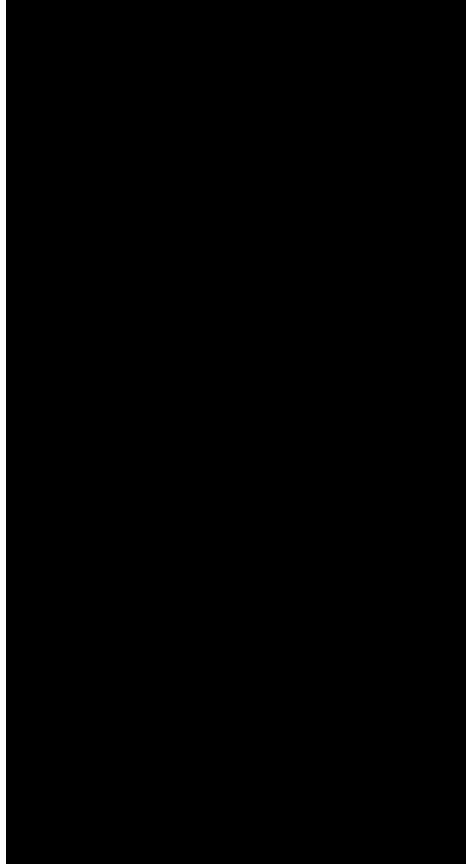

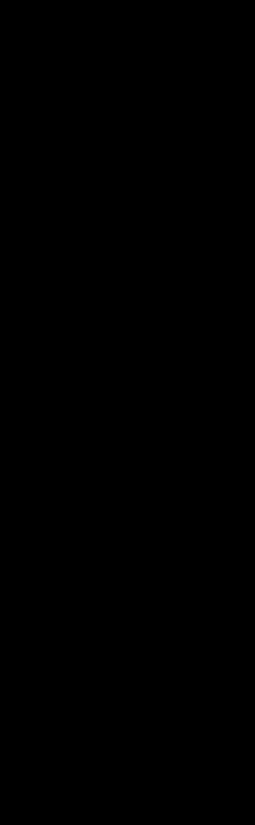


SUPPLEMENTARY INFORMATION

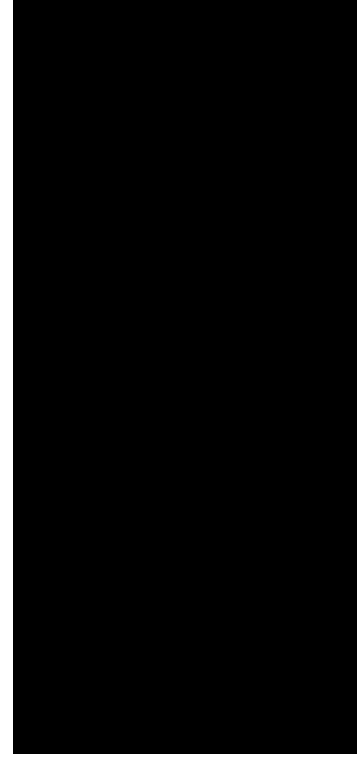
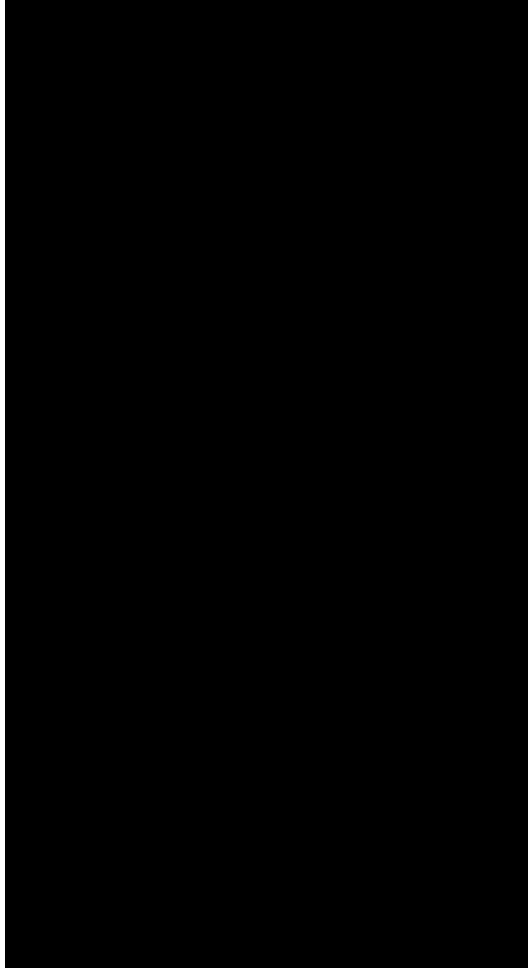
YUKON CONSTRUCTION SERVICES, INC.

SCHEDULES OF COST OF SALES
AND OPERATING EXPENSES

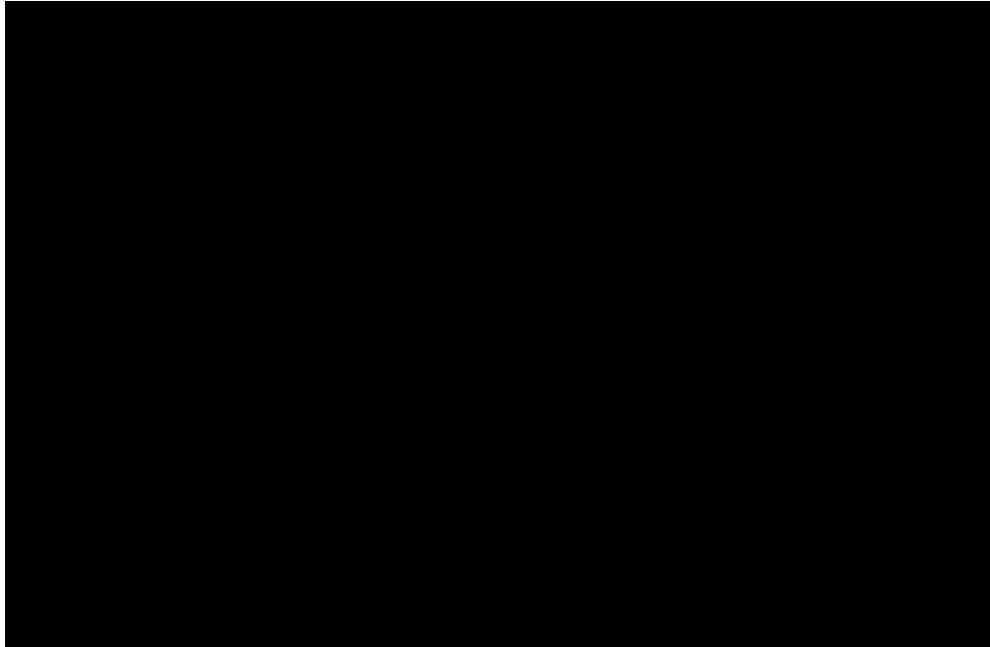
Years ended December 31, 2019 and 2018

	<u>2019</u>	<u>2018</u>
		
		

DUKE BROADBAND, INC.
Income Statement



DUKE BROADBAND, INC.
Balance Sheet
As of December 31, 2020



No assurance is provided on these financial statements.



Affidavit of Commitment

State of Michigan

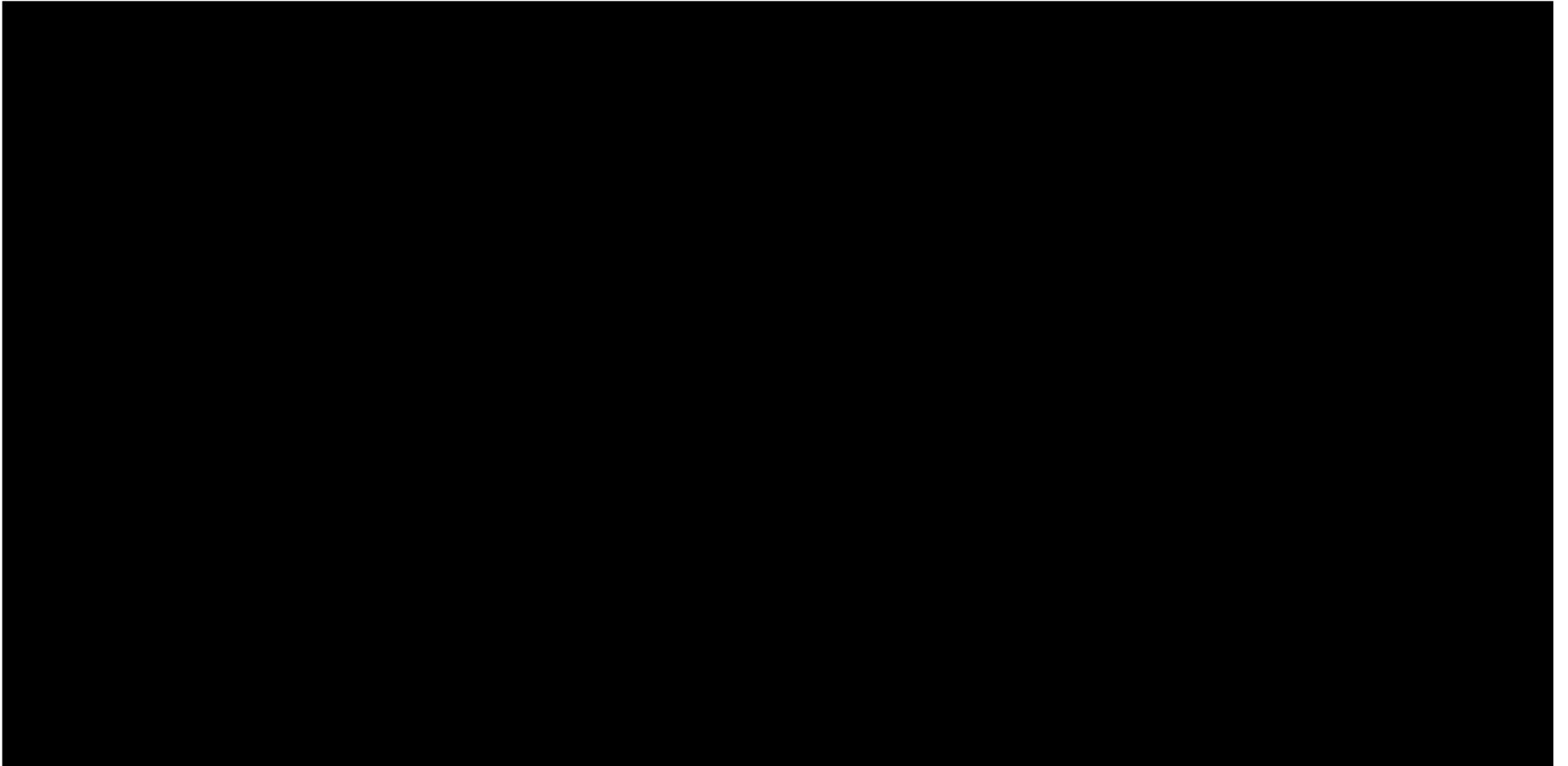
County of St.Clair

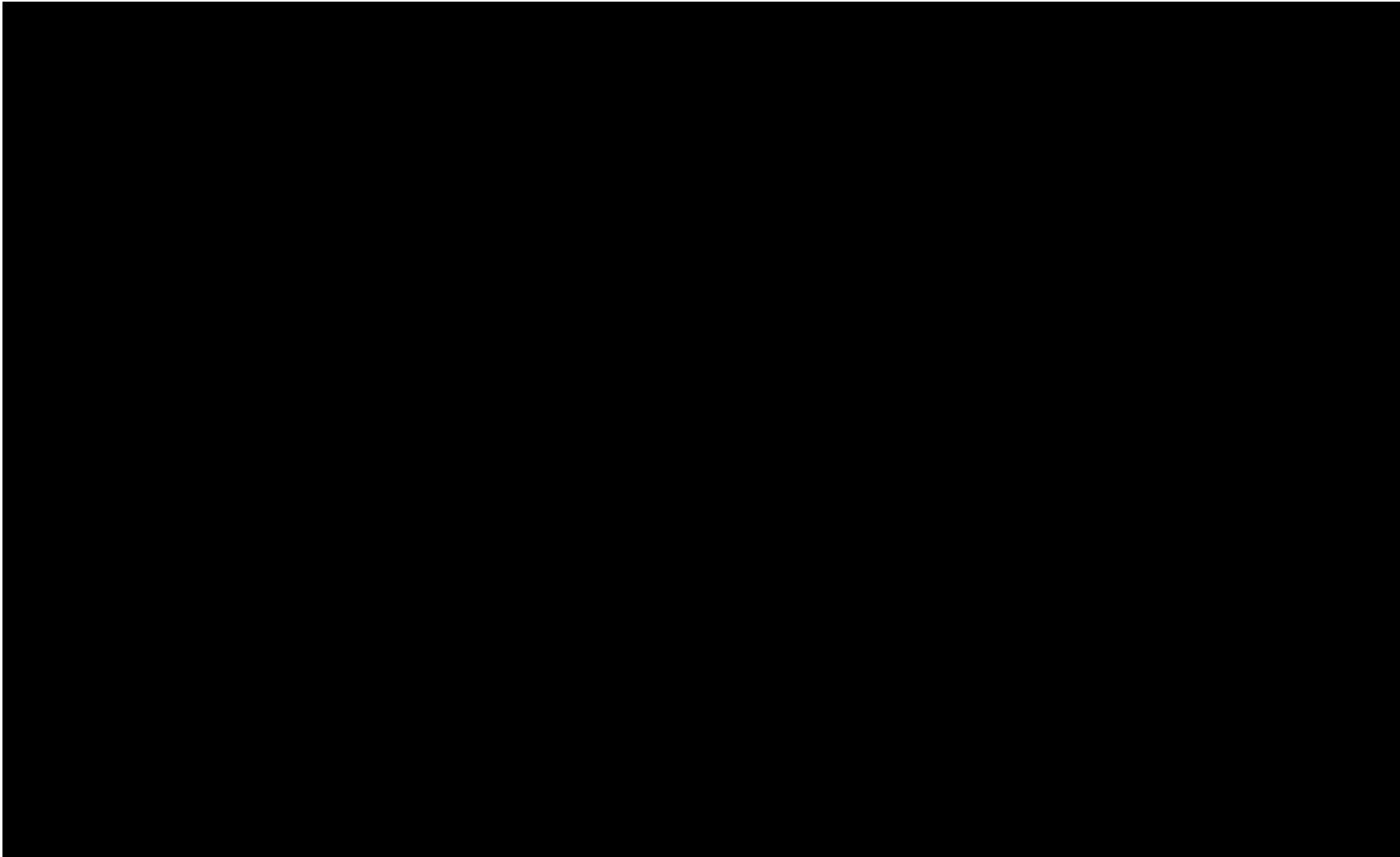
St.Clair Township Project

In the event that a CMIC grant is awarded to Duke Broadband Inc. to construct fiber optic broadband service in St.Clair Township located in St. Clair County Michigan, the ownership of Duke Broadband Inc. hereby certifies our commitment to offer broadband service in the awarded area for a minimum of five years after the project is complete. The service provided during this time period will be as described in our CMIC application, Specifically:

Type	Upload (Mbps)	Download (Mbps)	Bandwidth	Price
Residential Base Rate	1000	100	unlimited	
Residential Base – Education Discount	1000	100	Unlimited	
Residential WiFi	1000	100	Unlimited	
Business SOHO	500	100	Unlimited	

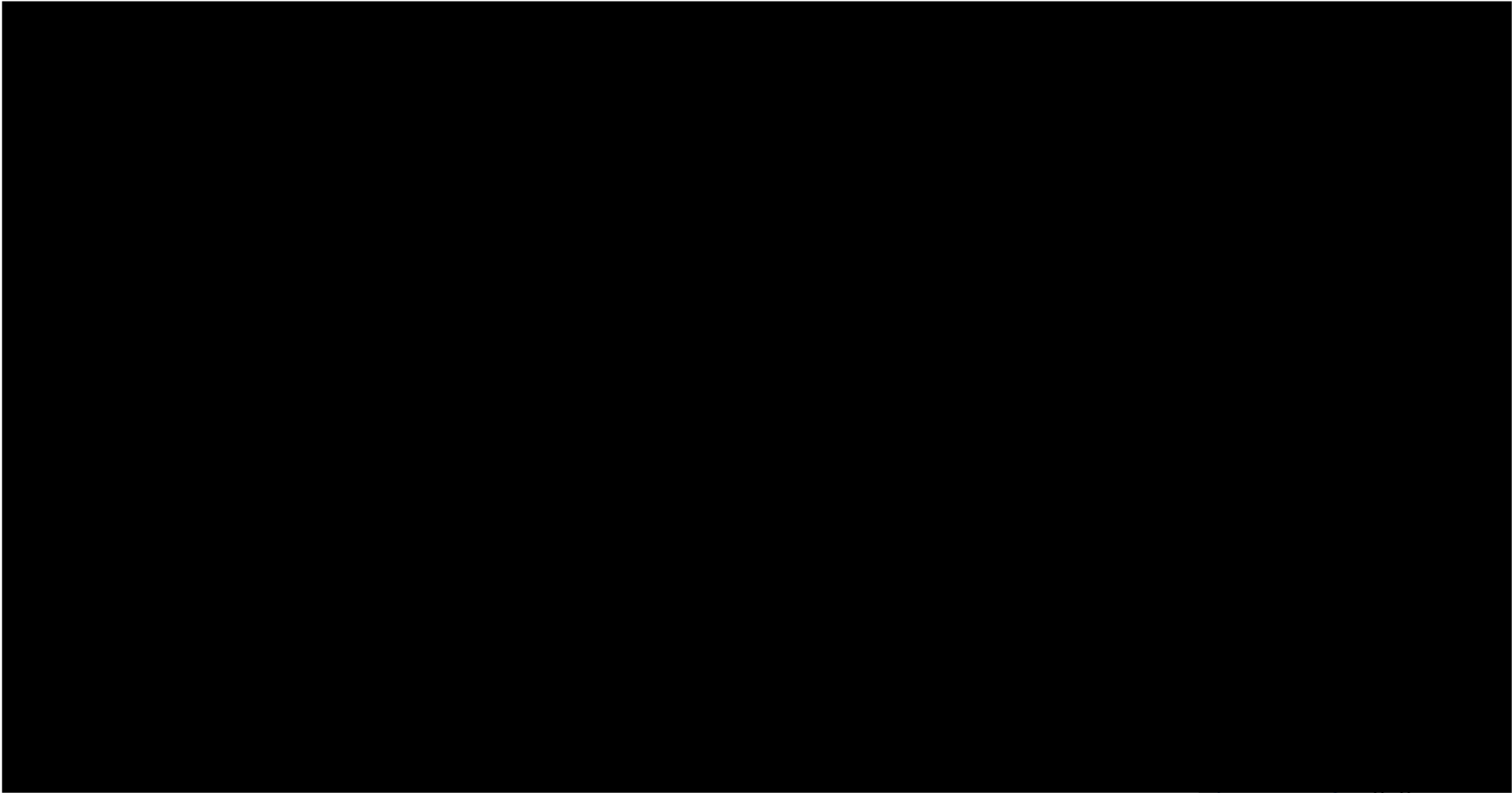
Signature: David Ladite
Printed Name: David Ladite
Title: President
Date: 1-3-2021

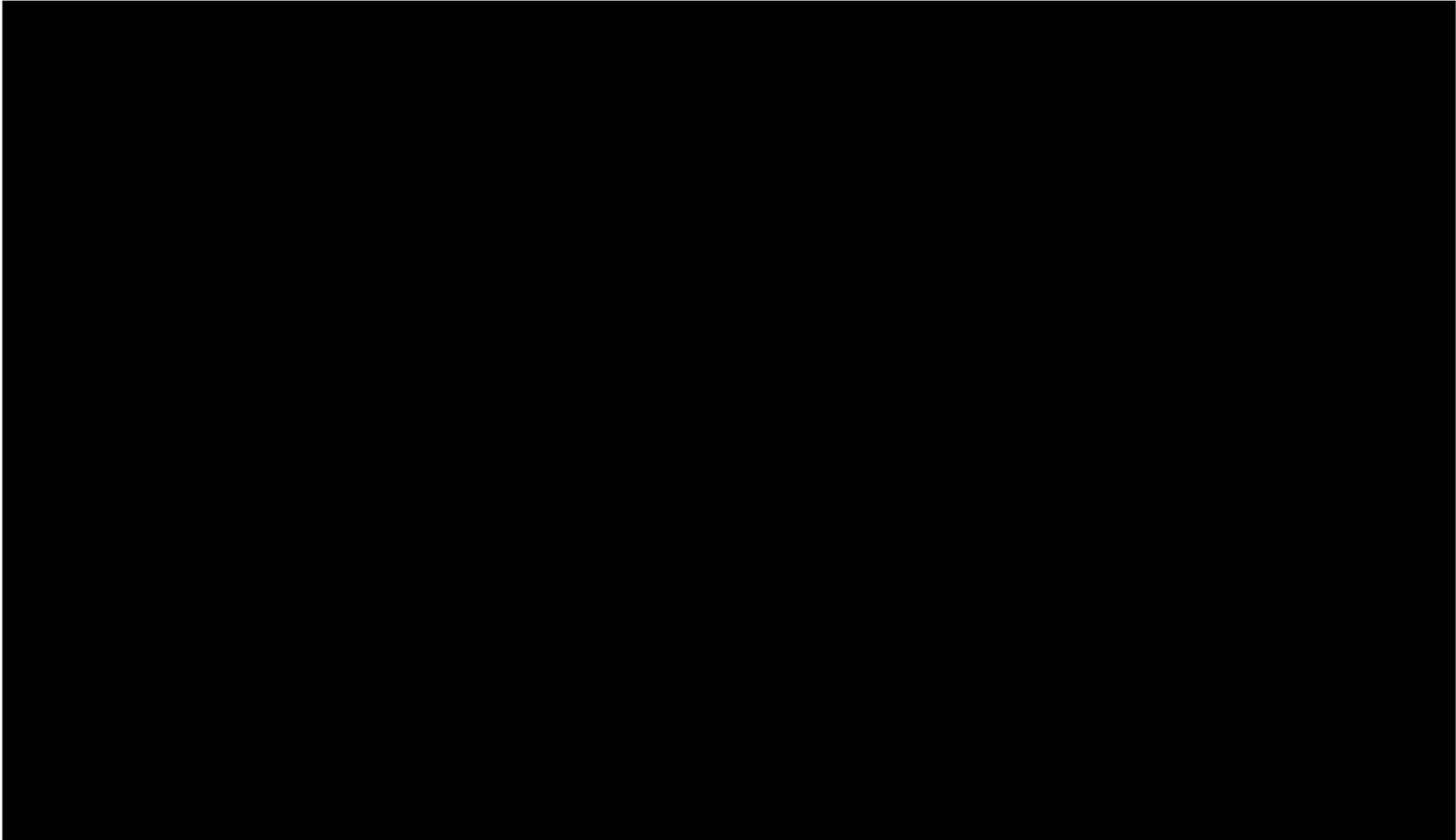


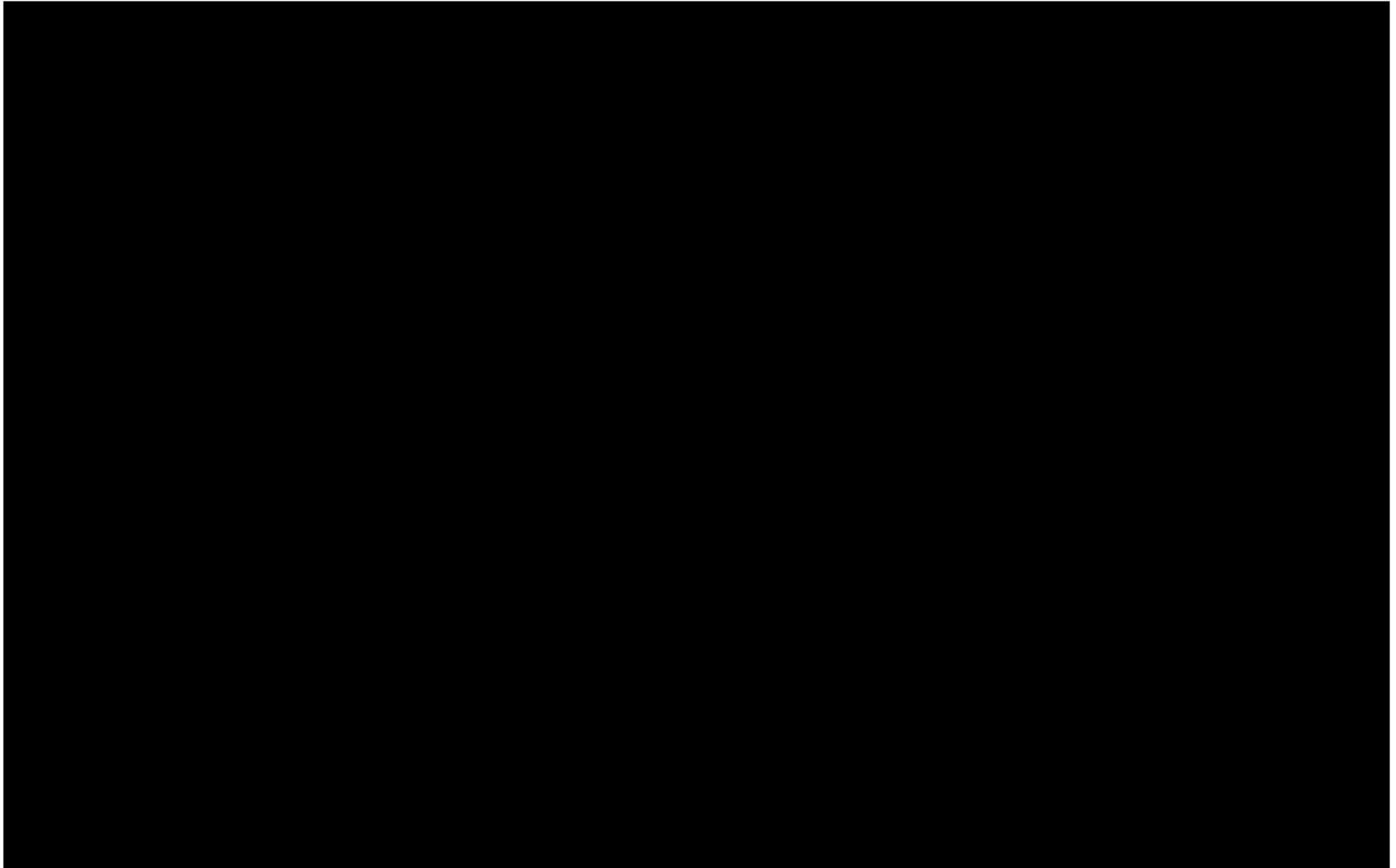




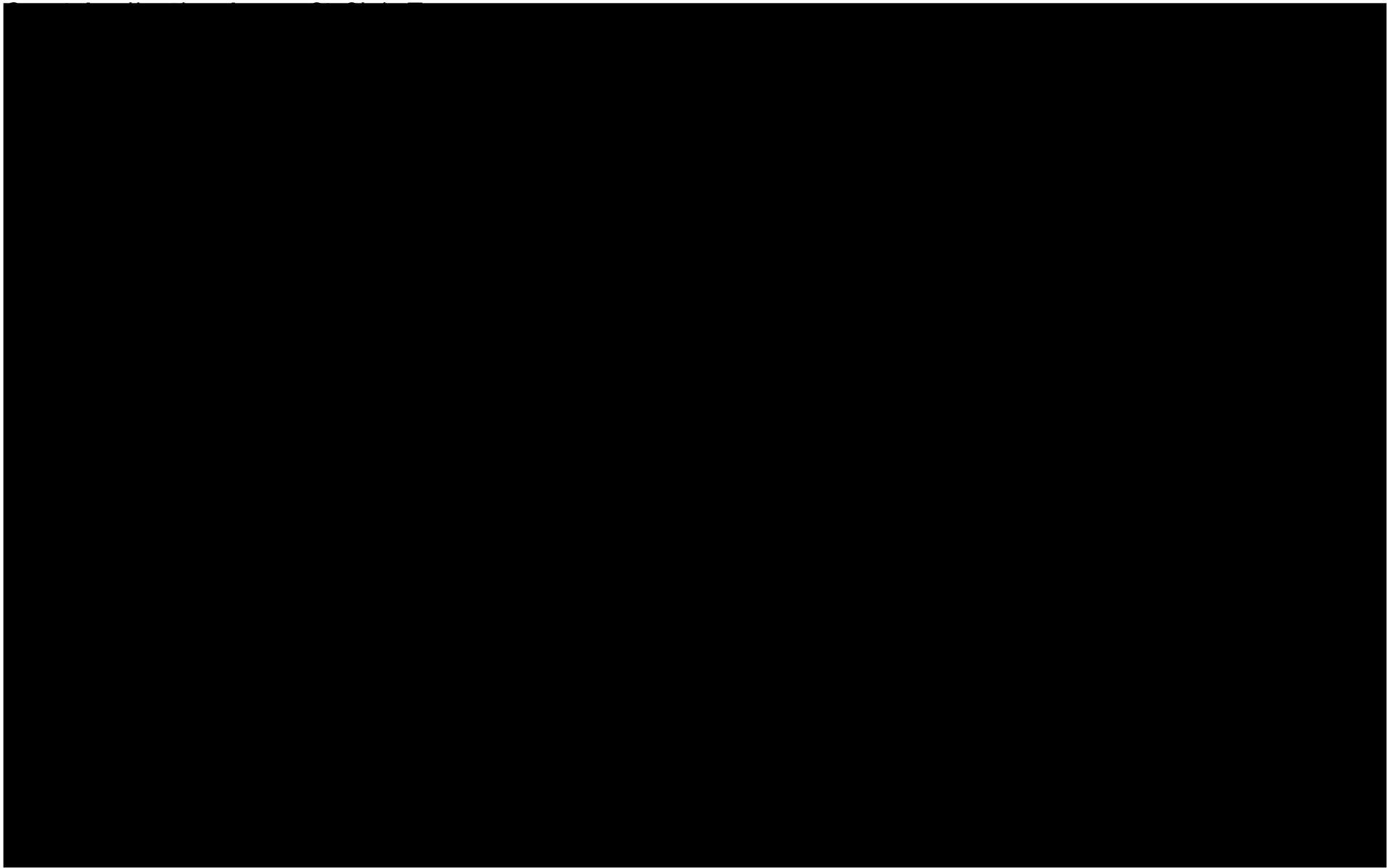
OLT



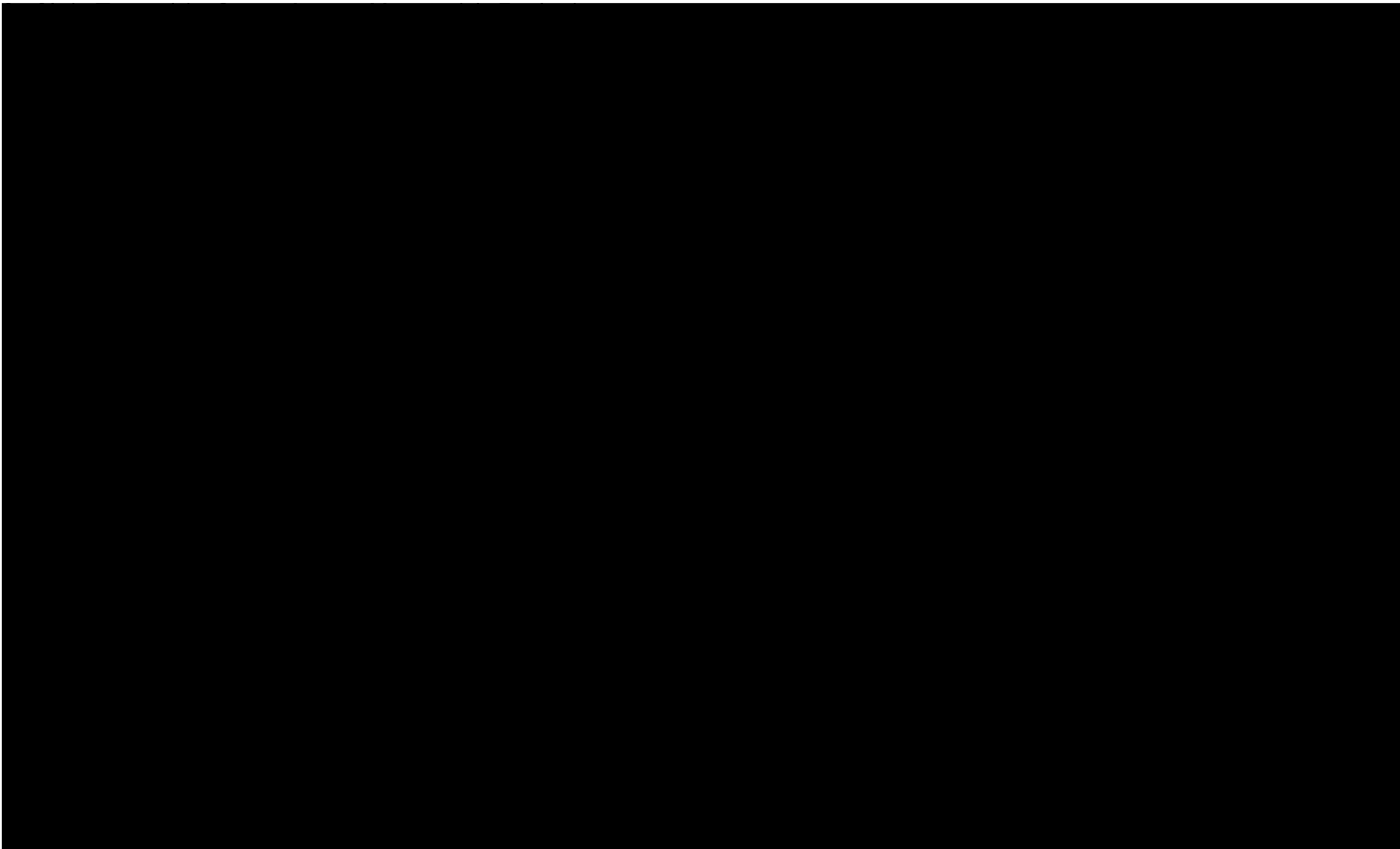




Network Map



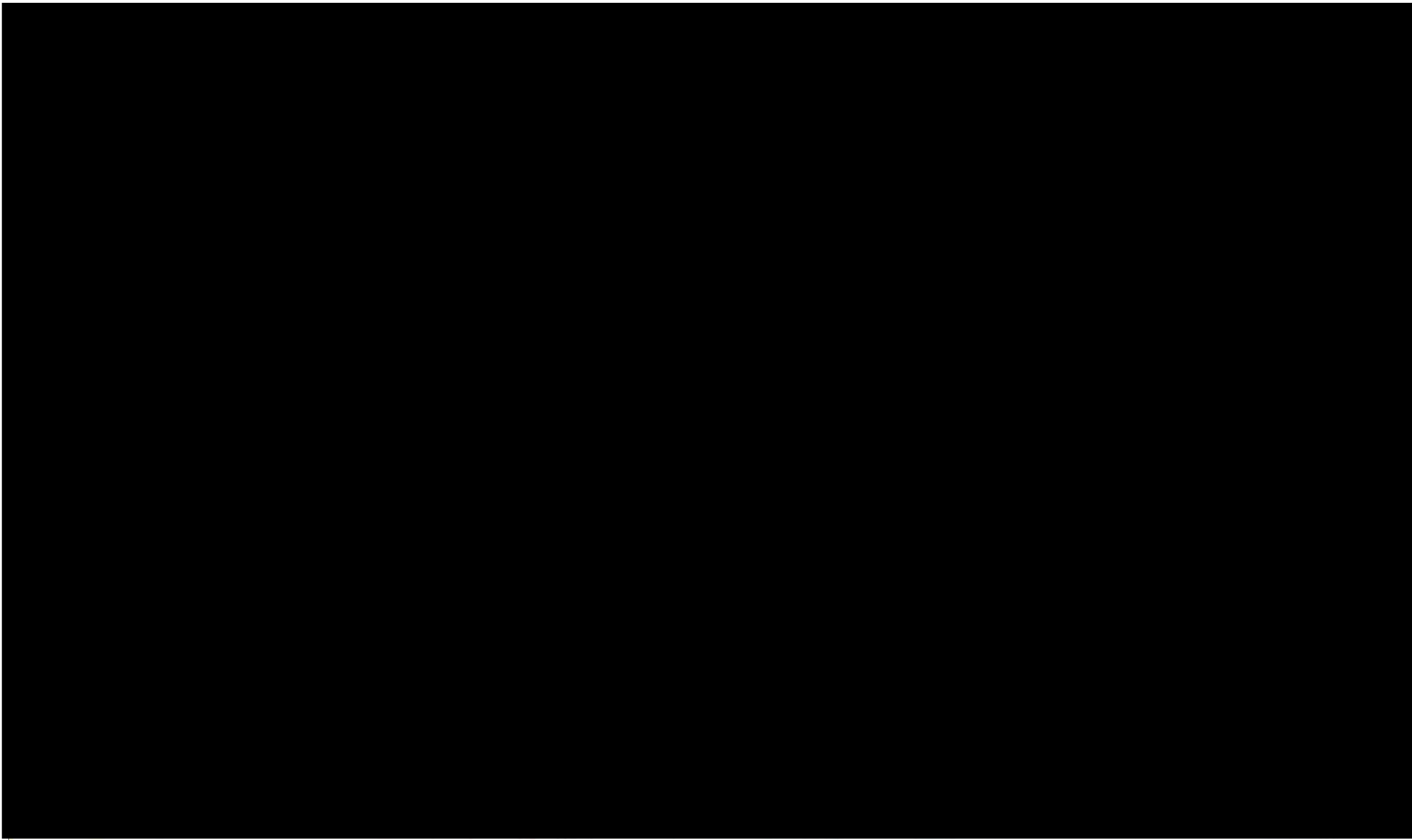
Network Map



Network Map

1mi

Province of Ontario, County of Lambton, Esri, HERE, Garmin, SafeGraph, METI/NASA, USGS, EPA, NPS, USDA, NRCan, Parks Canada



Network Map



Province of Ontario, County of Lambton, Esri, HERE, Garmin, SafeGraph, METI/NASA, USGS, EPA, NPS, USDA, NRCan, Parks Canada

Duke Broadband
St. Clair Twp Project: Market Build Data

Item	Units	U of M
------	-------	--------

Premise Data

[Redacted]		
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Distribution Fiber Data (GIS CSV)

[Redacted]		
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Design

[Redacted]		
------------	--	--

[Redacted]

[Redacted]		
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[Redacted]

[Redacted]		
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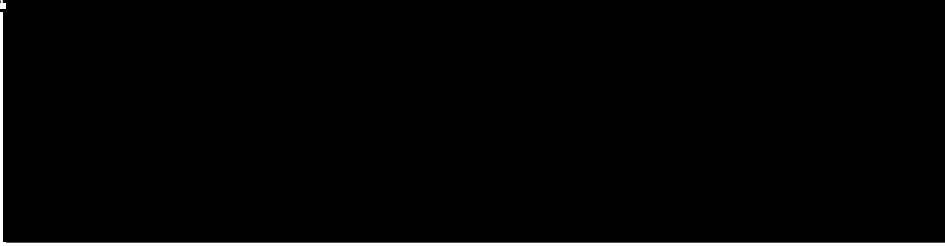
Service Drop Data

[Redacted]		
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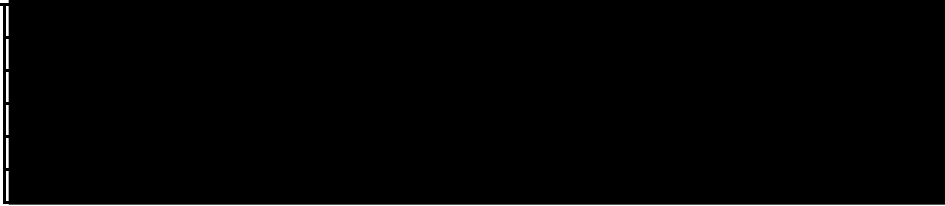
Customer Premise Equipment

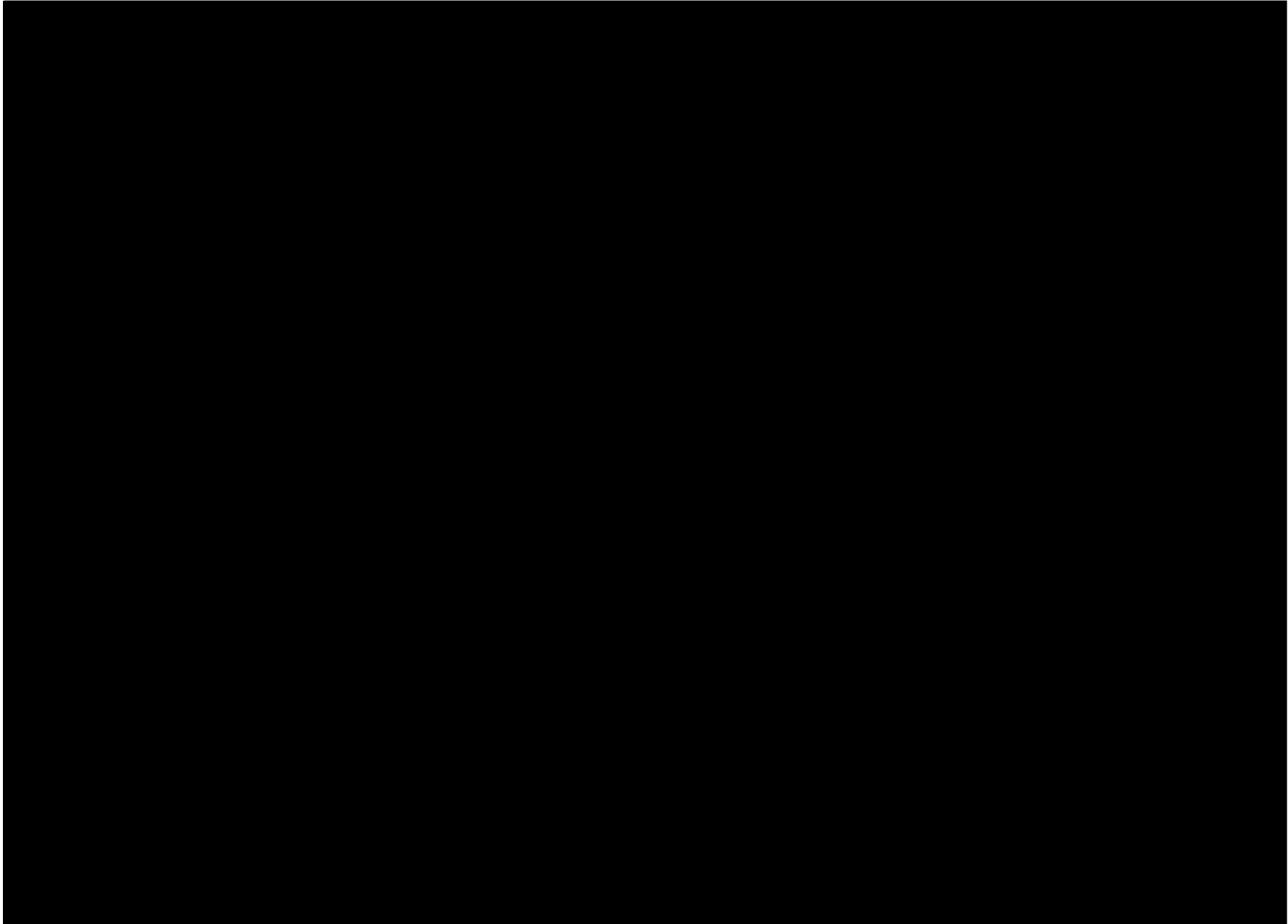
[Redacted]		
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Multi-Service Terminal Data (GIS.CSV)



Splice Data







[REDACTED]

[REDACTED]

Nokia 7360 ISAM FX

ANSI

The Nokia 7360 Intelligent Services Access Manager (ISAM) FX is a high-capacity access node designed to deliver ultra-broadband services to any number of users in a rapid and cost-effective way. Because there is no single solution to bring ultra-broadband to the masses, the 7360 ISAM FX supports a mix of services including VDSL2 with vectoring, point-to-point, GPON, EPON (with DPoE) and 10G PON services. High-bandwidth throughput is guaranteed by backplane technology that enables dual 100Gb/s backplane connections to each line termination (LT) slot.

With three 7360 ISAM FX shelf sizes to choose from, service providers have maximum flexibility for deploying in central office, outside plant cabinet or other remote environments. With the 7360 ISAM FX, operators have the flexibility to deploy a mix of technologies that can deliver fast broadband, a faster time to market and the fastest possible return on investment.

Features

- High-capacity backplane: 2 x 100Gb/s per slot
- Four-slot (FX-4), eight-slot (FX-8) and 16-slot (FX-16) shelf options
- High-capacity 480Gb/s controllers (NT) with 40Gb/s network capacity (can be used as uplink, downlink or direct user link)
- Optional Network Termination Input Output (NTIO) for an additional 80Gb/s network capacity
- Full NT redundancy with Active/Active and load sharing options
- Added resiliency with MPLS, Ethernet Ring Protection Switching (ERPS) (G.8032) and Link Aggregation Group (LAG) support
- Simultaneous support of passive optical network (PON), point-to-point, POTS and VDSL2 with vectoring



7360 ISAM FX-16 — GPON shown



7360 ISAM FX-8 — VDSL2 Vectoring shown



7360 ISAM FX-4 — Multi-service shown

- Fully managed by the Nokia 5520 Access Management System (AMS) and 5529 Access Provisioning Center (APC) applications

Benefits

- Secure investment with system capacity that anticipates future technologies such as time and wavelength division multiplexed PON (TWDM-PON)
- Flexibility to deploy any access technology in any location in the network
- Residential, mobile and business applications converge on a single platform
- Deliver over 100Mb/s to subscribers over existing copper with VDSL2 vectoring and bonding
- Optimized for Gigabit services with Nokia Gigabit Express
- Take advantage of existing Data Over Cable Service Interface Specification (DOCSIS) provisioning systems with DOCSIS Provisioning of EPON (DPoE) support
- Built on widely deployed Nokia ISAM technology serving over 160 fiber to the home (FTTH) and 90 VDSL2 operators worldwide

Note: Feature content based on R5.1 baseline

Technical specifications

Full service platform

- Multiservice access support
 - IPTV services
 - Multimedia service
 - High-speed Internet access
 - Business access
 - Cell-site backhaul
 - Voice

- LT support
 - Gigabit PON (GPON) line cards
 - Ethernet PON (EPON) line card with DPoE
 - 10G EPON line card with DPoE
 - Point-to-point fiber line card
 - VDSL2 with vectoring line cards
 - System Level Vectoring (SLV) processor
 - Voice services line card
- Network Termination (NT) support: FANT-F
 - 480Gb/s switching matrix (bidirectional)
 - Active/Active redundancy
 - Four configurable 10Gb/s or 1Gb/s network links
 - Small Form Factor Pluggable (SFP)+ cages
- Network Termination Input Output (NTIO) support: FNIO-A
 - Eight configurable 10Gb/s or 1Gb/s network links
 - Small Form Factor Pluggable (SFP)+ cages
 - Used as uplink, downlink or direct user link management
 - Fully managed by the Nokia 5520 AMS and 5529 APC

Standards compliance

- Environmental
 - ETS EN 300 019-1-1 storage – Class 1.1 weather-protected, partly temperature-controlled locations
 - ETS EN 300 019-1-2 transport – Class 2.3 public transportation
 - ETS EN 300 019-1-3 stationary use – Class 3.1E and Class 3.3 (assuming no condensation and icing)
 - GR-63-CORE

- SBC TP76200MP
- GR-3108-CORE
- Powering
 - ETS EN 300 132-2
- Protection
 - ITU-T K.20 enhanced and K.45 basic
- Safety
 - IEC 60950, EN60950 Class 1, AS/NZS 60950.1
 - UL/CSA 60950-1-03
 - EN 60950-1
- EMC
 - ETS EN 300 386 for telecommunications center installation environment
 - ETS ES 201 468
 - GR-1089-CORE
 - FCC part 15 Class A
 - EN 55022
- Acoustic noise
 - ETS 300 753

Operating conditions

- Operating temperature range: -40°C to 65°C (-40°F to 149°F)
- Relative humidity: 5% to 93% (non-condensing)
- Over-temperature sensors and over-temperature shutdown

Power

- Input
 - 48/60V DC nominal
 - Fully redundant power feeding (branch A and B)

Dimensions

- FX-16
 - Height: 600mm (23.62in) (~14 RU)
 - Width: 500mm (19.68in); can be used in ETSI-sized 600 x 300mm racks
 - Depth: 280mm (11.02in)
- FX-8
 - Height: 360mm (14.17in) (8 RU)
 - Width: 445mm (17.52in); can be used in 19in racks
 - Depth: 280mm (11.02in)
- FX-4
 - Height: 223mm. (8.77in) (5 RU)
 - Width: 445mm (17.52in); can be used in 19in racks
 - Depth: 280mm (11.02in)
 - Rack-mounting pitch of 25mm (0.984in)

Construction (based on FX-16)

- 16 wire-speed LT slots
- 256 GPON ports per shelf:
 - 16 ports x 16 slots
 - 8192 subscriber locations (32 split)
- 10Tb/s total system capacity

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Nokia Oyj
Karaportti 3
FI-02610 Espoo
Finland
Tel. +358 (0) 10 44 88 000

Product code: MKT2015019508EN

Nokia WiFi Beacon 3

Beacon for the intelligent mesh network – HA-030W-B

The Nokia WiFi Beacon 3 extends the whole home Wi-Fi experience for broadband subscribers. This premium class Nokia WiFi beacon operates seamlessly, together with selected Nokia residential gateways and/or other Nokia beacons, to create a whole home coverage mesh network backhauled by wired Ethernet or Wi-Fi. This coverage can be expanded at any time by installing additional Wi-Fi beacons to ensure flawless roaming for mobile users. The end-user experience with the intelligent self-organizing mesh system is enhanced by a service provider's Wi-Fi care capabilities in the cloud and intuitive home user support using the Nokia mobile app.

The Nokia WiFi Beacon 3 has Nokia state-of-the-art intelligent self-organizing mesh and built-in edge analytics over concurrent dual-band Wi-Fi that delivers a whole home optimal link to the connected equipment. This device can provide triple play services with voice, video and data, while its unique spectrum monitoring and interference detection ensure an overall top quality experience. When no dedicated gateway is in the network, the Nokia WiFi Beacon 3 will take the role of wireless router with access to the broadband network.

The Nokia WiFi Beacon 3 is managed by the Nokia WiFi home portal and presents the help desk agents with a holistic view of the in-home network to assist them with easy identification and instantaneous resolution of issues as well as offering recommendations for operator upsell opportunities.

The Nokia WiFi mobile app provides home users with an intuitive and simplified interface for trouble-free management of their home network and Wi-Fi. It also provides advanced functions such as guest Wi-Fi management and parental controls.



Features

- Functions either as wireless router or beacon in a mesh network
- Dual-band concurrent IEEE 802.11b/g/n 3x3 2.4 GHz and 802.11ac 4x4 5 GHz
- Four 10/100/1000Base-T interfaces with RJ-45 connectors
- Nokia intelligent mesh
- Embedded analytics optimize network performance in real time
- Real-time wireless spectrum analysis

Benefits

- PHY rate up to 750 Mb/s for 2.4 GHz and 2170 Mb/s for 5 GHz (with 1024 QAM capable clients)
- Self-healing, self-optimizing network
- Mesh topology and intelligent mesh routing
- Seamless roaming for IEEE 802.11k/v capable and legacy clients
- Band steering, channel optimization
- Embedded range boost technology helps to significantly extend absolute range
- Real-time wireless spectrum scan and analysis
- High quality of service (QoS) video over Wi-Fi
- Ease of setup and user intuitive information

Technical specifications

Physical

- Height: 160 mm (6.3 in)
- Diameter: 94 mm (3.7 in)
- Weight: 0.65 kg (1.4 lb)

Installation

- Desktop mounting

Operating environment

- Temperature: -5°C to 45°C (23°F to 113°F)
- Relative humidity: 5% to 95%, non-condensing

Power requirements

- Local powering with 12 V DC input (external AC/DC adapter)
- Power consumption: <19.1 W

Ethernet interfaces

- One 10/100/1000Base-T interface with RJ-45 connector for WAN side
- Three 10/100/1000Base-T interfaces with RJ-45 connectors for LAN side

WLAN interfaces

- Supports 3x3 802.11b/g/n 2.4 GHz wireless LAN (WLAN) interface
- Supports 4x4 802.11ac 5 GHz WLAN interface with multi-user multiple input, multiple output (MU-MIMO)
- Maximum effective isotropic radiated power (EIRP) on 2.4 GHz up to 500 mW and 5 GHz up to 1 W
- 64-bit and 128-bit Wired Equivalent Privacy (WEP) support
- Wi-Fi Protected Access (WPA) support including Pre-Shared Key (WPA-PSK) and WPA2
- Media access control (MAC) filters

Router mode

- IPv4 and IPv6 connectivity: Dual stack and DS Lite, stateless and stateful auto-configuration, DHCPv6 prefix delegation
- Point-to-Point Protocol over Ethernet (PPPoE) and IP over Ethernet (IPoE)
- Network Address Translation (NAT), port forwarding, demilitarized zone (DMZ) and firewall
- Dynamic Host Configuration Protocol (DHCP), domain name system (DNS) proxy and dynamic domain name system (DDNS)
- Internet Group Management Protocol (IGMP) v2/v3 proxy/Multicast Listener Discovery (MLD) proxy
- Virtual private network (VPN) pass-through for Point-to-Point Tunneling Protocol (PPTP), Layer 2 Tunneling Protocol (L2TP) and IPSec



- Flexible video delivery options over Ethernet or wireless
- TR-069 for remote management

Beacon mode

- Forwarding IPv4 and IPv6 traffic
- VPN pass-through for PPTP, L2TP and IPSec
- IGMP v2/v3 snooping/MLD snooping
- Flexible video delivery options over Ethernet or wireless
- TR-069 for remote management with Extensible Messaging and Presence Protocol (XMPP) support for management behind a NAT router

LED

- Simple and intuitive status indication by colored light on top of device

Buttons

- Power on/off
- Wi-Fi Protected Setup (WPS)
- Device reset

Safety and electromagnetic interference (EMI)

- Protection of over voltage/current

Regulatory compliances

- UL 62368-1
- IEC 62368-1
- CSA C22.2 No. 62368-1
- FCC
- CE
- CCC
- RCM
- Wi-Fi Alliance certified

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Nokia Oyj
Karaportti 3
FI-02610 Espoo, Finland
Tel. +358 (0) 10 44 88 000

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Nokia WiFi Beacon 1

Beacon for the intelligent mesh network – HA-020W-B

The Nokia WiFi Beacon 1 extends the whole home Wi-Fi experience for broadband subscribers. This standard class Nokia WiFi Beacon 1 operates seamlessly together with selected Nokia residential gateways and/or other Nokia beacons, to create a whole home coverage mesh network backhauled by wired Ethernet or Wi-Fi. This coverage can be expanded at any time by installing additional Wi-Fi beacons to ensure flawless roaming for mobile users. The end-user experience with the intelligent self-organizing mesh system is enhanced by a service provider's Wi-Fi care capabilities in the cloud and intuitive home user support using the Nokia mobile app.

The Nokia WiFi Beacon 1 has Nokia state-of-the-art intelligent self-organizing mesh and built-in edge analytics over concurrent dual-band Wi-Fi that delivers a whole home optimal link to the connected equipment. This device can provide triple play services with voice, video and data. When no dedicated gateway is in the network, the Nokia WiFi Beacon 1 will take the role of wireless router with access to the broadband network.

The Nokia WiFi Beacon 1 is managed by the Nokia WiFi Home Portal and presents the help desk agents with a holistic view of the in-home network to assist them with easy identification and instantaneous resolution of issues as well as offering recommendations for operator upsell opportunities.

The Nokia WiFi mobile app provides home users with an intuitive and simplified interface for trouble-free management of their home network and Wi-Fi. It also provides advanced functions such as guest Wi-Fi management and parental controls.



Features

- Functions either as wireless router or beacon in a mesh network
- Dual-band concurrent IEEE 802.11b/g/n 2x2 2.4 GHz and 802.11n/ac 2x2 5 GHz
- Two 10/100/1000Base-T interfaces with RJ-45 connectors
- Nokia intelligent mesh
- Embedded analytics optimize network performance in real time

Benefits

- PHY rate up to 300 Mb/s for 2.4 GHz and 867 Mb/s for 5 GHz
- Self-healing, self-optimizing network
- Mesh topology and intelligent mesh routing
- Seamless roaming for IEEE 802.11k/v capable and legacy clients
- Band steering, channel optimization
- High quality of service (QoS) video over Wi-Fi
- Ease of setup and user intuitive information

Technical specifications

Physical

- Height: 150 mm (5.9 in)
- Width: 115 mm (4.5 in)
- Depth: 42 mm (1.6 in)
- Weight: 0.28 kg (0.62 lb)

Installation

- Desktop mounting

Operating environment

- Temperature: -5°C to 45°C (23°F to 113°F)
- Relative humidity: 5% to 95%, non-condensing

Power requirements

- Local powering with 12 V DC input (external AC/DC adapter)
- Power consumption: <11.5 W

Ethernet interfaces

- One 10/100/1000Base-T interface with RJ-45 connector for WAN side
- One 10/100/1000Base-T interface with RJ-45 connector for LAN side

WLAN interfaces

- Supports 2x2 802.11b/g/n 2.4 GHz wireless LAN (WLAN) interface
- Supports 2x2 802.11n/ac 5 GHz WLAN
- Maximum effective isotropic radiated power (EIRP) on 2.4 GHz up to 500 mW and 5 GHz up to 1 W
- 64-bit and 128-bit Wired Equivalent Privacy (WEP) support
- Wi-Fi Protected Access (WPA) support including Pre-Shared Key (WPA-PSK) and WPA2
- Media access control (MAC) filters

Router mode

- IPv4 and IPv6 connectivity: Dual stack and DS Lite, stateless and stateful auto-configuration, DHCPv6 prefix delegation
- Point-to-Point Protocol over Ethernet (PPPoE) and IP over Ethernet (IPoE)
- Network Address Translation (NAT), port forwarding, demilitarized zone (DMZ) and firewall
- Dynamic Host Configuration Protocol (DHCP), domain name system (DNS) proxy and dynamic domain name system (DDNS)
- Internet Group Management Protocol (IGMP) v2/v3 proxy/Multicast Listener Discovery (MLD) proxy
- Virtual private network (VPN) pass-through for Point-to-Point Tunneling Protocol (PPTP), Layer 2 Tunneling Protocol (L2TP) and IPSec
- Flexible video delivery options over Ethernet or wireless
- TR-069 for remote management



Beacon mode

- Forwarding IPv4 and IPv6 traffic
- VPN pass-through for PPTP, L2TP and IPSec
- IGMP v2/v3 snooping/MLD snooping
- Flexible video delivery options over Ethernet or wireless
- TR-069 for remote management with Extensible Messaging and Presence Protocol (XMPP) support for management behind a NAT router

LED

- Simple and intuitive status indication by single colored LED indicator

Buttons

- Power on/off
- Device reset

Safety and electromagnetic interference (EMI)

- Protection for over voltage/current

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Nokia Oyj
Karaportti 3
FI-02610 Espoo, Finland
Tel. +358 (0) 10 44 88 000

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Nokia ONT Gateway 3

Gateway for the intelligent mesh network – G-240W-E

The Nokia ONT Gateway 3 is the most advanced solution for whole home Wi-Fi networking delivered by Gigabit Passive Optical Network (GPON). This premium class Nokia WiFi gateway operates seamlessly, together with the Nokia WiFi beacons, to create a whole home coverage mesh network backhauled by wired Ethernet or Wi-Fi. The end-user experience with the intelligent self-organizing mesh system is enhanced by a service provider's Wi-Fi care capabilities in the cloud and intuitive home user support using the Nokia mobile app.

The Nokia ONT Gateway 3 is the optimal one-box solution integrating the optical network terminal (ONT) and Wi-Fi mesh functions to bring ultra-broadband service to and into the home. The device has Nokia state-of-the-art intelligent self-organizing mesh and built-in edge analytics over concurrent dual-band Wi-Fi that delivers a whole home optimal link to the connected equipment. It can provide triple play services with voice, video and data, while its unique spectrum monitoring and interference detection ensure an overall top quality experience.

In combination with the Nokia 7360 Intelligent Services Access Manager (ISAM)/7342 ISAM and Lightspan optical line terminals (OLTs), the gateway forms a uniform end-to-end industry-leading access network solution to ensure carriers deliver the highest satisfaction to their subscribers.

Next to the regular ONT management control interface (OMCI) and TR-069 remote device management, operators acquire control over the home Wi-Fi solution through the one-click Nokia WiFi home portal. The portal presents a holistic view of the in-home network to help desk agents, assisting them in easy identification and instantaneous resolution of issues as well as offering recommendations for operator upsell opportunities.



The Nokia WiFi mobile app provides home users with an intuitive and simplified interface for trouble-free management of their home network and Wi-Fi. It also provides advanced functions such as guest Wi-Fi management and parental controls.

Features

- GPON uplink, G.984, G.988 series standard compliant
- Bridge and router mode, TR-069 support
- Supports full triple play services including voice, video and high-speed internet access (HSIA)
- Dual-band concurrent IEEE 802.11b/g/n 3x3 2.4 GHz and 802.11ac 4x4 5 GHz
- Nokia intelligent mesh
- Embedded edge analytics
- Real-time wireless spectrum analysis

Benefits

- PHY rate up to 750 Mb/s for 2.4 GHz and 2170 Mb/s for 5 GHz (with 1024 QAM capable clients)
- Mesh topology and intelligent mesh routing
- Self-healing, self-optimizing network
- Band steering, channel optimization
- Seamless roaming for IEEE 802.11k/v/r capable or legacy clients
- Embedded range boost technology to significantly extend absolute range
- Insight on home network and recommendations for operator assisted care and end user self-care
- Real-time wireless spectrum scan and analysis
- Allows service per port configurations
- High quality of service (QoS) video over Wi-Fi
- Ease of setup and user intuitive information
- Optimized fiber routing and protection

Technical specifications

Physical

- Height: 200 mm (7.9 in)
- Diameter: 94 mm (3.7 in)
- Weight: 0.84 kg (1.9 lb)

Installation

- Desktop mounting

Operating environment

- Temperature: -5°C to 45°C (23°F to 113°F)
- Relative humidity: 5% to 95%, non-condensing

Power requirements

- Local powering with 12 V/3A DC input (external AC/DC adapter)
- Dying gasp support
- Power consumption: <36 W
- Uninterruptible power supply (UPS) connector

GPON uplinks

- Wavelength: 1490 nm downstream, 1310 nm upstream
- Line rate: 2.488 Gb/s downstream, 1.244 Gb/s upstream
- GPON Encapsulation Method (GEM) mode support for IP/Ethernet service traffic support
- ITU-T G.984.3-compliant dynamic bandwidth report (DBR)
- ITU-T G.984.3-compliant Advanced Encryption Standard (AES) in downstream
- ITU-T G.984.3-compliant forward error correction (FEC)
- ITU-T G.988 Appendix 1 and Appendix 2 OMCI
- Flexible software image management
- SC/APC connector

POTS interfaces

- Two FXS ports for voice over IP (VoIP) service with RJ-11 connectors
- Multiple codecs: ITU-T G.711, ITU-T G.729 (A and B)
- Session Initiation Protocol (SIP) (RFC 3261)
- ITU-T G.168 echo cancellation
- Services: caller ID, call waiting, call hold, 3-way call, call transfer, message waiting indication
- Maximum 5 ringer equivalency numbers (RENS) per line



- Dual-tone multi-frequency (DTMF) dialing
- Balanced sinusoidal ring signal, 55 V root mean square (RMS)

WLAN interfaces

- Supports 3x3 802.11b/g/n 2.4 GHz wireless LAN (WLAN) interface
- Supports 4x4 802.11ac 5 GHz WLAN interface with multi-user multiple input, multiple output (MU-MIMO)
- Maximum effective isotropic radiated power (EIRP) on 2.4 GHz up to 500 mW and 5 GHz up to 1 W
- 64-bit and 128-bit Wired Equivalent Privacy (WEP) support
- Wi-Fi Protected Access (WPA) support including Pre-Shared Key (WPA-PSK) and WPA2
- Media access control (MAC) filters

USB interface

- Two USB 2.0 interfaces support external disk drives and home network attached storage (NAS)

Residential gateway

- IPv4 and IPv6 connectivity: Dual stack and DS Lite, stateless and stateful auto-configuration, DHCPv6 prefix delegation
- Point-to-Point Protocol over Ethernet (PPPoE) and IP over Ethernet (IPoE)
- Network Address Translation (NAT), demilitarized zone (DMZ) and firewall
- Dynamic Host Configuration Protocol (DHCP) and domain name system (DNS) proxy

- Internet Group Management Protocol (IGMP) v2/v3 proxy/Multicast Listener Discovery (MLD) proxy
- Supports virtual private network (VPN) pass-through for Point-to-Point Tunneling Protocol (PPTP), Layer 2 Tunneling Protocol (L2TP) and IPSec
- Port forwarding and DMZ/dynamic domain name system (DDNS)
- Flexible video delivery options of Ethernet or wireless to set-top boxes (STBs)
- Dual TR-069 connectivity for independent remote device and Wi-Fi management

LEDs

- Simple and intuitive status indication by colored light on top of device
- GPON link status
- VoIP status

Safety and electromagnetic interference (EMI)

- Protection of over voltage/current

Regulatory compliances

- UL 62368-1
- CSA C22.2 No. 62368-1
- FCC
- CE
- FDA laser register
- Wi-Fi Alliance certified

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Nokia Oyj
Karakaari 7
02610 Espoo
Finland
Tel. +358 (0) 10 44 88 000



Wi-Fi CERTIFIED™ Certificate



This certificate lists the features that have successfully completed Wi-Fi Alliance interoperability testing. Learn more: www.wi-fi.org/certification/programs

Certification ID: WFA78538

Product Info

Date of Certification	July 24, 2018
Company	Nokia Shanghai Bell Co., Ltd.
Product Name	Nokia WiFi Gateway 3
Version	2018-07-24 (WFA78538 - 7353402)
Model Number	G-240W-E
Category	Routers
Sub-category	Access Point for Home or Small Office (Wireless Router)

Summary of Certifications

CLASSIFICATION	CERTIFICATION
Connectivity	2.4 GHz Spectrum Capabilities 5 GHz Spectrum Capabilities Wi-Fi CERTIFIED™ a Wi-Fi CERTIFIED™ ac Wi-Fi CERTIFIED™ b Wi-Fi CERTIFIED™ g Wi-Fi CERTIFIED™ n
Security	Protected Management Frames WPA2™-Enterprise WPA2™-Personal 2018-04 WPA™-Enterprise WPA™-Personal
Optimization	WMM®
Access	Wi-Fi Protected Setup™



Wi-Fi CERTIFIED™ Certificate

Certification ID: WFA78538



Role: Access Point

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Wi-Fi Components

Wi-Fi Component Operating System

Linux

Wi-Fi Component Firmware

7.14.170.25

RF Architecture

Bands Supported	Transmit (Tx)	Receive (Rx)
2.4 GHz	3	3
5 GHz	4	4

Certifications

2.4 GHz Spectrum Capabilities

- 1 Spatial Stream
- 2 Spatial Streams
- 20 MHz Channel Width
- 3 Spatial Streams
- 40 MHz Channel Width

5 GHz Spectrum Capabilities

- 1 Spatial Stream
- 2 Spatial Streams
- 20 MHz Channel Width
- 3 Spatial Streams
- 4 Spatial Streams
- 40 MHz Channel Width

Protected Management Frames

WMM®

WPA2™-Enterprise

EAP methods

WPA2™-Personal 2018-04

WPA™-Enterprise

WPA™-Personal

Wi-Fi CERTIFIED™ a

Wi-Fi CERTIFIED™ ac

- A-MPDU with A-MSDU
- LDPC Rx
- LDPC Tx
- MCS 8-9 Rx
- STBC
- Short Guard Interval

Wi-Fi CERTIFIED™ b

Wi-Fi CERTIFIED™ g

Wi-Fi CERTIFIED™ n

- A-MPDU Tx
- HT Duplicate Mode
- OBSS on Extension Channel
- RIFS
- STBC
- Short Guard Interval

Wi-Fi Protected Setup™



Wi-Fi CERTIFIED™ Certificate

Certification ID: WFA78538



Role: Access Point

Page 3 of 3

Wi-Fi Protected Setup™ (continued)

PIN

Pushbutton



25G PON technology

White paper

Commercial PONs have traditionally leveraged mature components from transport systems. Starting with 25G PON, the data center ecosystem will be leveraged. A strategy to accommodate higher speed at low cost is presented.

Contents

Past and future perspective on TDM-PONs	3
PON technology: the trickle-down effect and the new data center paradigm	3
Leveraging the 25 Gb/s ecosystem for 25G TDM-PON	4
25G PON wavelength plan and co-existence with legacy PONs	6
25G PON use cases	7
Proposed roadmap to 50G TDM-PON	7
Possible paths to a 100G TDM-PON: coherent	8
Acronyms	8

Past and future perspective on TDM-PONs

TDM-PONs were invented in the late 1980s and, within a few years, questions were raised about the ability of TDM-PON to meet bandwidth demands. Expansion of capacity via multiple wavelengths was proposed for future PONs and so decades of WDM-PON research ensued. In the meantime, virtually all commercially deployed PONs have been of the TDM-PON variety, are highly cost-effective and have easily met capacity demands. Mass deployments started with BPON (622 Mb/s downstream, 155 Mb/s upstream) and EPON (1 Gb/s symmetrical), and were followed by GPON (2.488 Mb/s downstream, 1.248 Mb/s upstream). Deployment of 10 Gb/s class PONs (with 1, 2.488, or 10 Gb/s upstream) are currently ramping up.

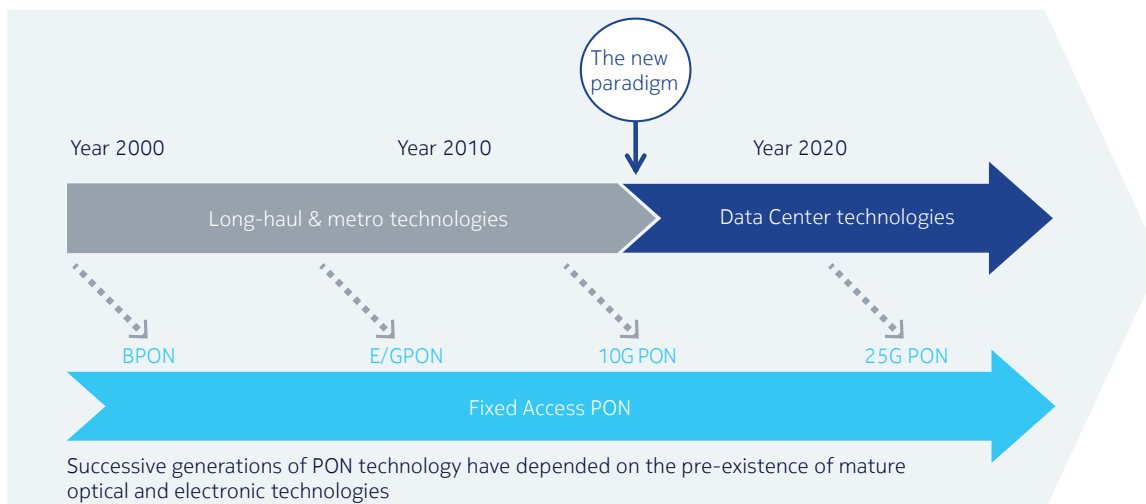
The question this paper addresses is whether TDM-PON as a technology can continue to satisfy future bandwidth demands and, if so, how can they do so cost-effectively.

PON technology: the trickle-down effect and the new data center paradigm

During the past few decades, the success of TDM-PON has depended on the pre-existence of mature optical and electronic technologies. Volumes of these technologies were driven first by the long-haul market. After sufficient cost erosion these components were adopted by the metro market, driving volumes and maturation further, enabling their adoption by PON. This process required time; not only because the access market had lower price points, but also because these technologies had to be adapted for larger power budgets and burst mode operation.

This paradigm worked well: OC-12 and OC-48 (and STM equivalents) fueled BPON, EPON and GPON; OC-192 fueled 10G PON. However, in the 2000s, the 40G market fizzled out. When FSAN began standardization of a 40G PON in 2012, a mature 40G ecosystem did not exist and a multi-wavelength technology based on 10 Gb/s was selected. (One could argue that operators were premature in their estimate of the need for 40G capacity).

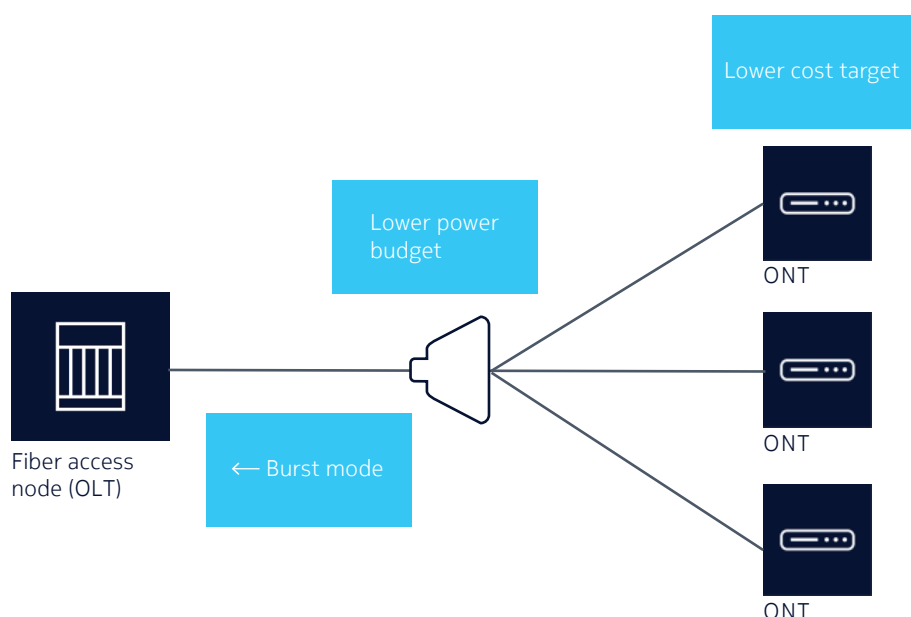
Figure 1: PON: a history of leveraging technologies matured in other domains



Data center technology found itself in a similar position. With no mature ecosystem for > 10 Gb/s Ethernet channels, the IEEE 802.3 community created a new family of 100 Gigabit Ethernet technologies based on 25 Gb/s channels. Eventually the insatiable demand for data center intra-connect capacity, much of it on single mode fiber, began to drive large volumes and reduced costs (to varying degrees) on 25G components such as DMLs, EMLs, APDs, TIAs and SerDes. This is the mature ecosystem that next generation 25G TDM-PON will leverage.

Is it possible to just plug these data center components into OLT and ONU transceivers? Of course not. PON applications will require new wavelengths, higher launch power from transmitters, and greater sensitivity from receivers. However, this is no different than the adoption, for previous PON generations, of components from long-haul and metro transceivers.

Figure 2: The PON “lag”: Each time, 3 technical challenges to overcome



With data center technologies now driving Ethernet towards 50 Gb/s and later 100 Gb/s channels, one can see a new paradigm emerging, where PON technologies follow data center instead of long haul/metro ecosystems.

Leveraging the 25 Gb/s ecosystem for 25G TDM-PON

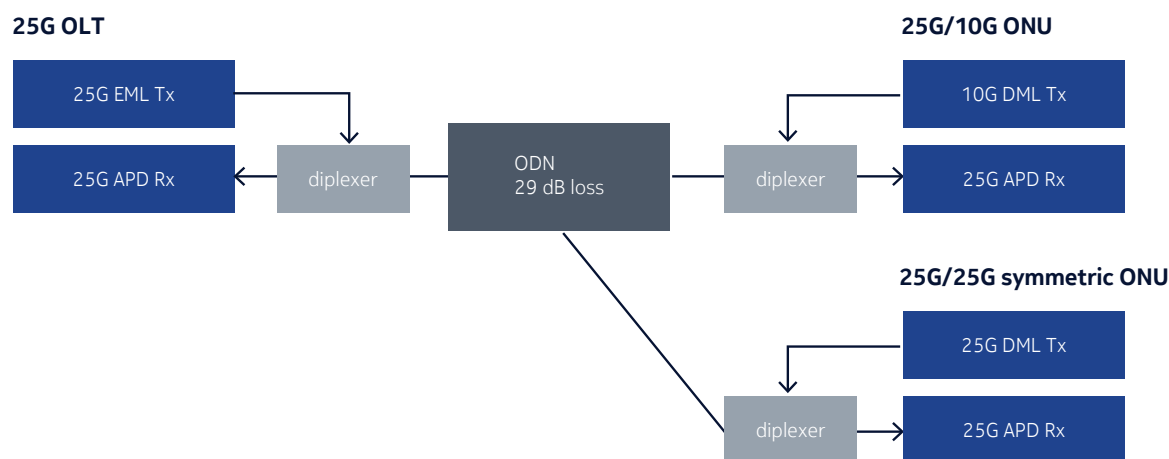
The IEEE 802.3ca Task Force started work on the standardization 25G TDM-PON in 2016. (Two wavelength-stacked 25G PONs to realize 50G TWDM PON is also in scope).

The commercial success of 25G PON will depend on its ability to deliver 2.5x more bandwidth than 10G PON at a small incremental cost. This must be the guiding principle. When this happens, sometime after the year 2020, the market will flip from 10G PON to 25G PON. This is what gated the success of GPON: it was massively deployed once its incremental cost above BPON and EPON became small. If there is a large initial cost premium for 25G PON, it will sit on the shelf for years, just as 10G PON did.

The strategy to achieve low incremental cost is composed of the following elements:

- **O-band wavelengths.** Dispersion increases with higher bit rates. 25G PON downstream and upstream wavelengths need to be in the O-band to avoid large penalties or the need for dispersion compensation.
- **Simple NRZ transmission.** Higher level modulation schemes like PAM4 bring complexity and cost and come with significant power penalties.
- **No optical amplification.** 25 Gb/s has about a 5 dB power penalty compared to 10 Gb/s. To achieve a 29 dB (PR30 EPON, N1 class ITU-T PON) loss budget, and to avoid the cost of optical amplification, those 5 dBs need to come from a combination of higher launch power, improved receiver sensitivity and stronger FEC. This will be possible, but with little margin to spare.
- **Asymmetric 25G/10G ONUs.** Success is gated by a low cost ONU. Much cost can be avoided by using an uncooled 10G DML in the upstream direction. The most widely deployed PON technology in the world, GPON, proves that asymmetric bandwidth is perfectly adequate for high volume FTTH. Until the cost increment for a higher power 25G cooled DML diminishes, the more expensive 25G symmetric ONUs can be reserved for business services. (OLTs will, therefore, have to support both asymmetric and symmetric ONUs, the same as 10G PON OLTs).

Figure 3: Strategy for 25G TDM-PON: simplicity for low cost



25G receiver based on 10G components. 25G APDs have been developed for the relatively low volume 40 km single wavelength data center interconnect market. Therefore, the cost increment of 25G APDs versus 10G APDs may be significant and persist for some time. A powerful strategy, especially for use in the ONU, would be to use 10G APDs followed by electro-duobinary detection¹. This technique requires standardization of pre-coding at the transmit side. Alternatively, MLSE could be used to recover the 25G signal from a 10G receiver². However, this implementation would incur significant non-recurring engineering costs.

¹ D. van Veen and V. Houtsmá, "Proposals for Cost-Effectively Upgrading Passive Optical Networks to a 25G Line Rate," J. of Lightwave Technology, vol. 35, no. 6, pp. 1180-1187, March 15 2017.

² M. Tao, et. al., "28-Gb/s/λ TDM-PON with Narrow Filter Compensation and Enhanced FEC Supporting 31.5 dB Link Loss Budget after 20-km Downstream Transmission in the C-band", OFC, Th11.4 (2016)

25G PON wavelength plan and co-existence with legacy PONs

802.3ca has objectives for 25G PON to co-exist with both 10G PONs (1270 +/- 10 nm upstream) and GPON (1310 +/- 20 nm upstream). To accomplish this, there will be two choices for upstream 25G PON wavelengths: 1300 nm and 1270 nm for wavelength co-existence with 10G PONs (see Figure 4) and GPONs (see Figure 5) respectively. (It is also possible to support triple co-existence of 25G PON, XGS-PON and GPON by adding XGS-PON (see Figure 6), with 25G PON and XGS-PON sharing the same 1270 nm upstream wavelength in TDM fashion). Each upstream wavelength will have a +/- 10 nm tolerance to allow for uncooled lasers. The 25G downstream wavelength will be 1358 +/- 2 nm, and is assumed to be an EML laser.

Figure 4: 25G PON wavelength plan: WDM co-existence with 10G PON

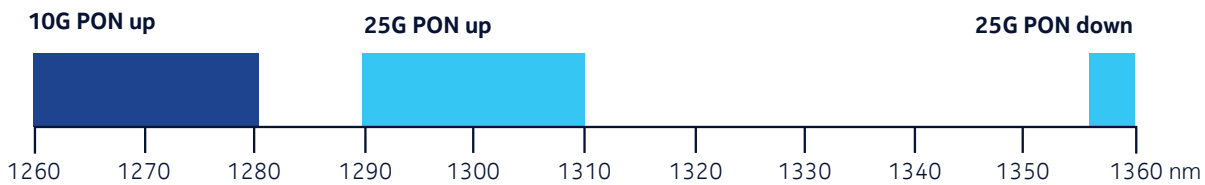


Figure 5: 25G PON wavelength plan: WDM co-existence with GPON

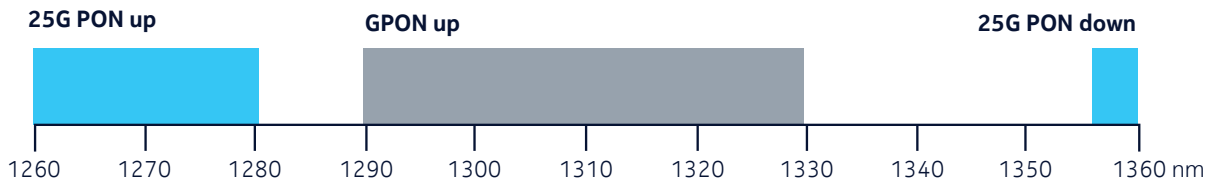
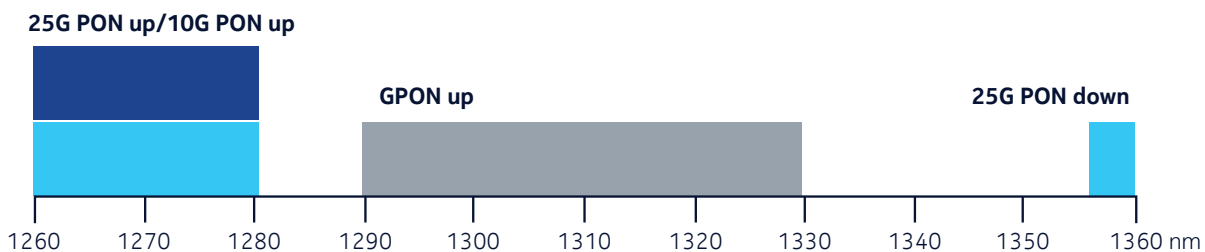


Figure 6: 25G PON wavelength plan: WDM co-existence with GPON and 10G PON



The market is likely to favor the ONUs supporting GPON co-existence for two reasons:

- The addressable market for GPON upgrades will be much larger when 25G PON becomes commercially available.
- It will be more urgent to upgrade older GPON by a factor of 10x than newer 10G PON by a factor of 2.5x.

25G PON use cases

The strategy for 25G PON is to hit the FTTH cost target. However, that target might not be attained in the first years of product availability and residential bandwidth demand is unlikely to drive the need for >10G PON until at least 2025³. On the other hand, 25G PON is well suited to the following use cases:

- **Backhaul of deep fiber nodes**, for example G.fast DPUs in copper networks and DAA nodes in cable networks. Compared to 10G PON, the number of remote nodes that can be served by a single OLT port is increased by a factor of 2.5, with corresponding fiber savings.
- **Business services**. Due to various overheads, 10G PONs can provide at most an 8-9 Gb/s symmetric service. After overhead, 25G PON will have about 20 Gb/s capacity, and can deliver a committed 10 Gb/s business service, and still have another 10 Gb/s available for residential users on the same PON.
- **5G mobile transport**. Operators are preparing for the deployment of dense 5G radios. For mobile operators, these deployments will require a vast amount of new fiber connectivity. Alternatively, a converged FTTH network might be leveraged for lower costs and simpler operations for mobile backhaul, midhaul, and maybe even fronthaul transport. The higher bandwidth of 25G PON will be a better fit for this application than 10G PON. In fact, the expected timings for 25G PON wireline and widescale 5G wireless are well aligned.
- **5G, specifically fixed wireless access**. Many operators are considering 5G millimeter wave (mmW) as an alternative to the fiber drop used to connect homes in traditional FTTH networks. mmW is capable of delivering gigabit speeds but only over short distances. This leads to dense 5G antennas, and 25G PON might be the ideal way to provide backhaul/midhaul connectivity.

Proposed roadmap to 50G TDM-PON

50 Gb/s-based Ethernet channels are currently being standardized for 200 and 400 Gigabit Ethernet and are predicted to start supplanting 100 Gigabit Ethernet in data centers around 2020. Given the aforementioned time lag between ecosystem development and application in PON systems, we can expect commercially ready 50G TDM-PONs in the middle of the next decade. Refer again to Figure 1.

Most 50 Gb/s channels will be implemented with the 25 Gbaud optics developed for 100 Gigabit Ethernet, plus PAM4 modulation. More efficient 400 Gigabit Ethernet based on 100 Gb/s channels using 50 Gbaud optics and PAM4 modulation is being demanded by operators of “hyperscale” data centers. Some 50 Gbaud components are already commercially available. Once again, the data center trickle-down paradigm should hold.

Compared to 25G TDM-PON, 4-5 more dBs are required for 50G. This time, optical amplification cannot be avoided. SOA preamplifiers may not give the required improvement, in which case SOA post amplifiers would be needed. PAM4 has a 4.8 dB theoretical modulation penalty and in implementation is worse, maybe too high to be compensated by optical amplification⁴. The required digital signal processing might prove problematic for cost-effective ONUs. Therefore, NRZ modulation should be considered. 50 Gbaud transmitters could be shipping in high volumes by the middle of next decade. These might need to be integrated with SOA post amplifiers. The problem may be on the receiver side: the availability of low cost

3 E. Harstead, R. Sharpe, “Forecasting of Access Network Bandwidth Demands for Aggregated Subscribers Using Monte Carlo Methods”, IEEE Comm. Mag., March 2015.

4 V. Houtsma and D. van Veen, “Bi-directional 25G/50G TDM-PON with Extended Power Budget using 25G APD and Coherent Detection,” J. of Lightwave Technology, vol. PP, no. 99, pp. 1-1. doi: 10.1109/JLT.2017.2742465

50 Gbaud APDs. The solution can be electro duobinary or MLSE detection with 25 Gbaud APDs, which would also increase dispersion tolerance.

Possible paths to a 100G TDM-PON: coherent

To fulfill a 29 dB loss budget, 100G TDM-PON will probably require a coherent receiver. For symmetrical 100G, a coherent burst mode receiver will be required; this is an active area of research^{5,6}. There are at least three possible scenarios that could lead to a practical 100G coherent PON in the second half of the next decade:

- Sufficient cost erosion of traditional 100G coherent, 28 Gbaud PM-QPSK, occurs in time for the market need. This would be a return to the old long-haul-to-metro-to-PON paradigm.
- Data centers adopt coherent in the early/mid 2020s. High volumes drive low-cost coherent components. This would be a continuation of the data-center-to-PON paradigm.
- A new IM-coherent detection scheme attains PON cost targets more quickly than 28 Gbaud PM-QPSK. Perhaps what would be needed is a stripped-down coherent architecture optimized for PONs.

With digital signal processing, coherent PON could use the S, C or L wavelength bands, since chromatic dispersion can be fully compensated, easing wavelength co-existence with legacy PONs in the crowded O-band.

At any rate, the PON industry has at least 5 years before making technology decisions about 100G PON.

Acronyms

APD	Avalanche photodiode
BPN	Broadband PON
DAA	Distributed access architecture
dB	Decibel
DML	Directly modulated laser
DOCSIS	Data Over Cable Service Interface Specification
EML	Electro-absorption modulated laser
EPON	Ethernet PON
FSAN	Full Service Access Network Group
GPON	Gigabit PON
IEEE	Institute of Electrical and Electronics Engineers
IM-coherent	Intensity modulation-coherent
MLSE	Maximum Likelihood Sequence Estimation
NRZ	Non-return-to-zero

⁵ R. Koma, et. al., "22-dB Dynamic Range, Real-Time Burst-Mode Reception of Digital Coherent 20-Gb/s QPSK PON Upstream Signals", ECOC (2016)

⁶ R. Matsumoto, K. Matsuda, N. Suzuki, "Burst-Mode Coherent Detection Using Fast-Fitting Pilot Sequence for 100-Gb/s/λ Coherent TDM-PON Systems," Proc. ECOC, W.3.D.5, 2017



OC-14/48/192	Optical carrier rates
OLT	Optical line terminal
ONU	Optical network unit
PAM	Pulse amplitude modulation
PM-QPSK	Polarization-multiplexed quadrature phase shift keying
PON	Passive optical networks
SerDes	Serializer/deserializer
SOA	Semiconductor optical amplifiers
STM	Synchronous transport module
TDM	Time-division multiplexing
TIA	Transimpedance amplifier
VR	Virtual reality
WDM	Wavelength-division multiplexing

Ed Harstead

Nokia, member of Fixed Networks CTO, USA

ed.harstead@nokia.com

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Nokia Oyj
Karaportti 3
FI-02610 Espoo, Finland
Tel. +358 (0) 10 44 88 000

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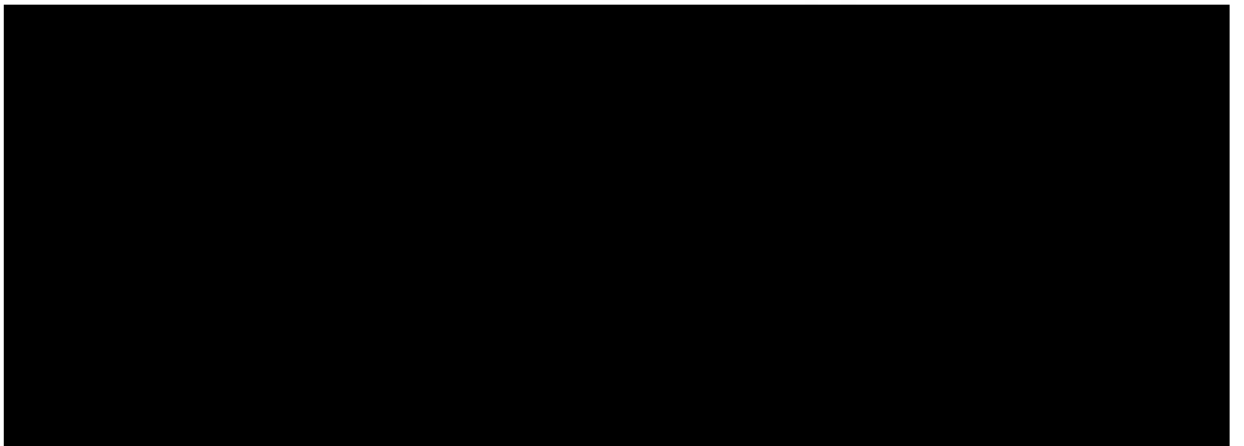
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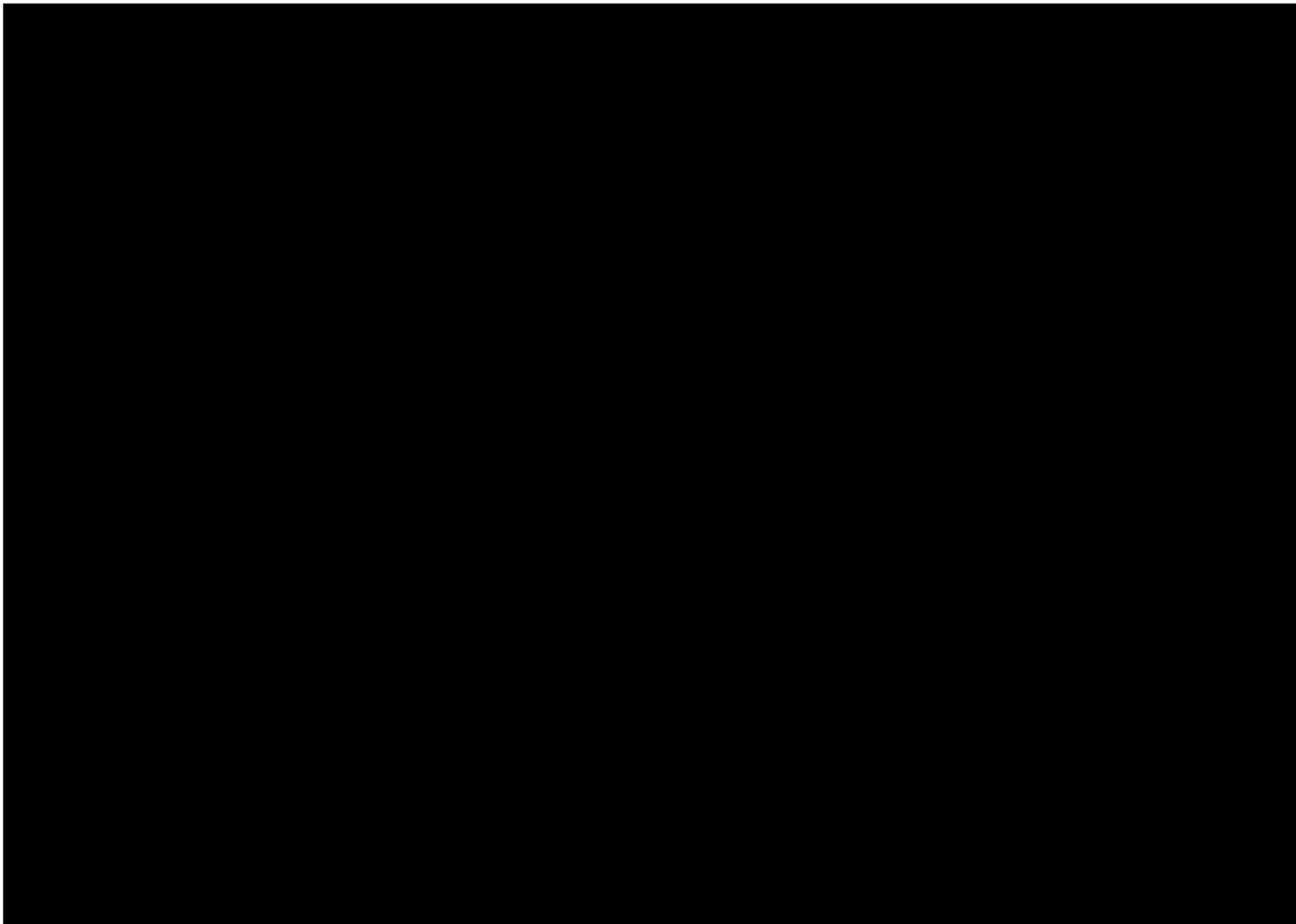
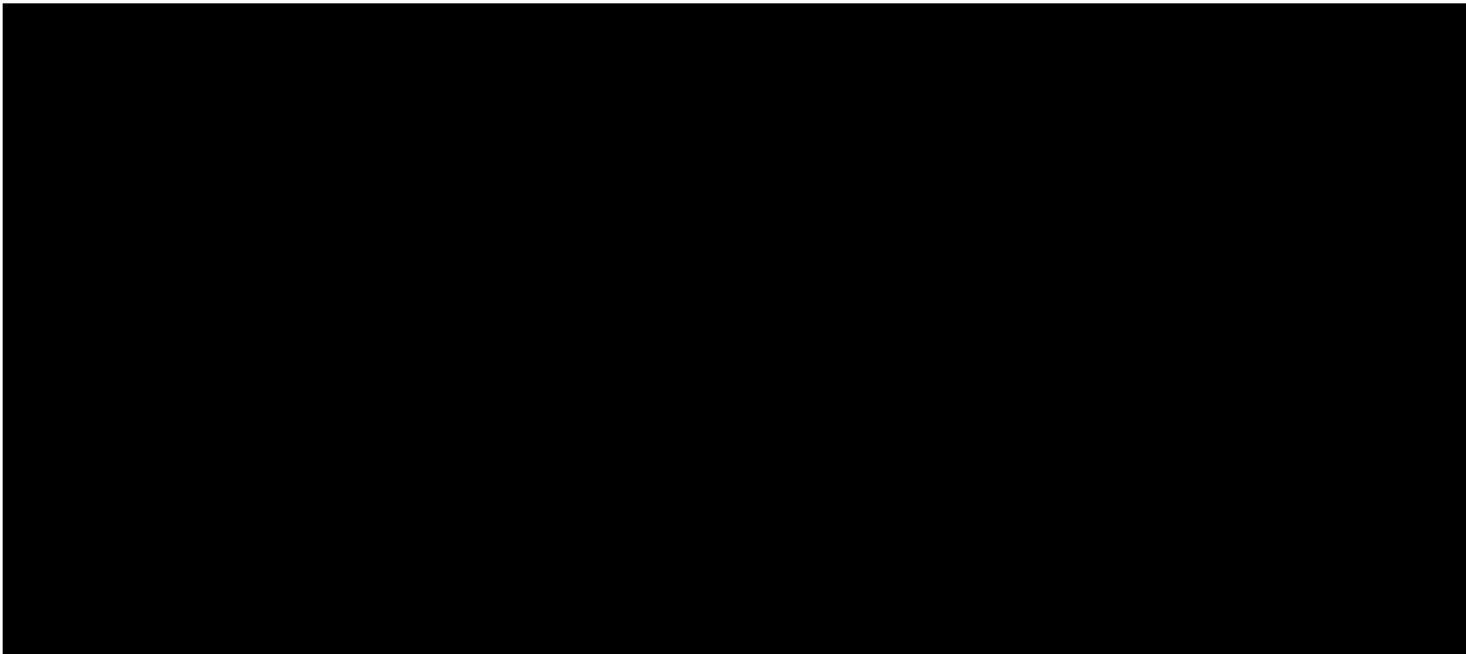
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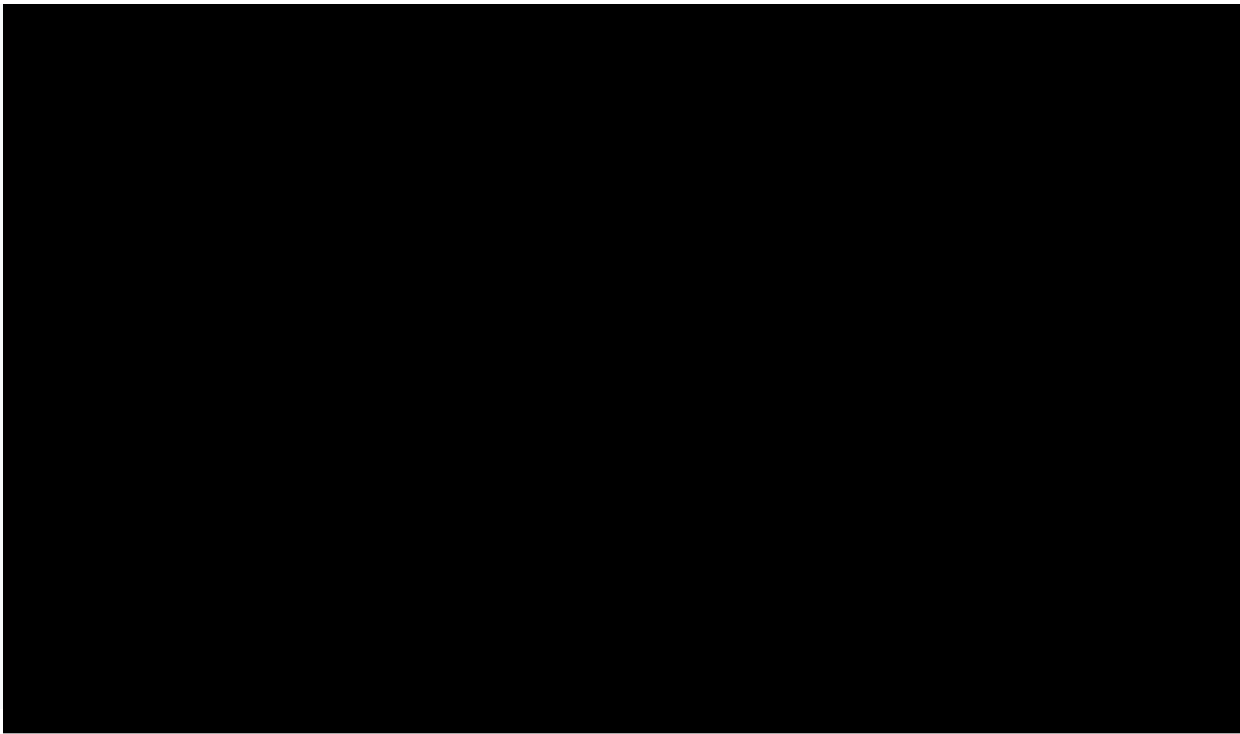
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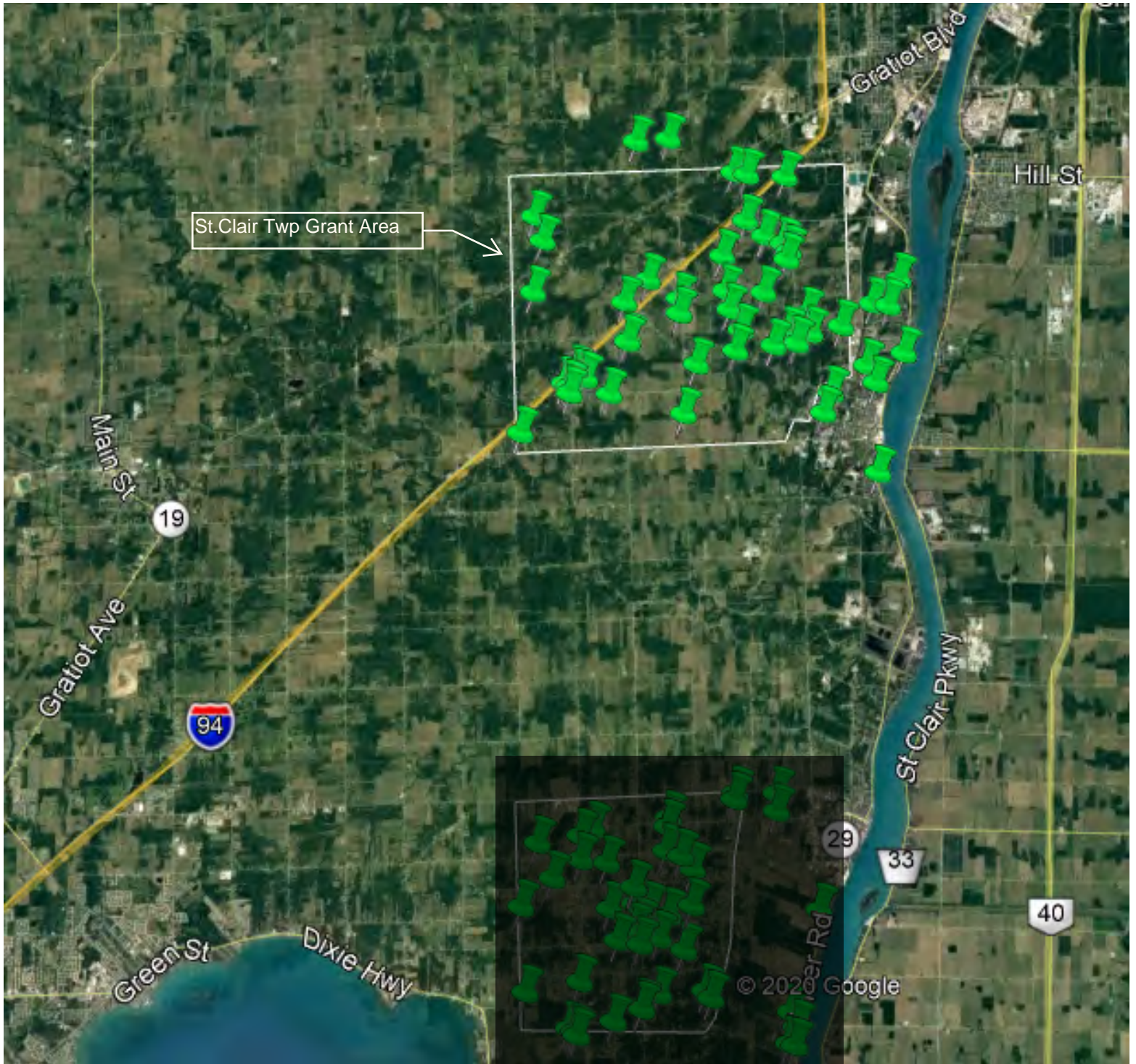
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Duke Broadband
Residential Survey Response data - Plotted
Respondants completed online.



Highlighted data within Grant Area. Arrows indicate addresses outside of grant area.

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St. Clair Township	48079	Yes	Hardwired to the internet service at you	No	St. Clair County, Michij	DSL (over the phone lines)	10 to 24.99 Mbps
St. Clair Twp.	48079	Yes	WiFi connection to the internet service	No	St. Clair County, Michij	DSL (over the phone lines)	10 to 24.99 Mbps
St. Clair	48079	No	Your mobile phone service	No	St. Clair County, Michij		
St. Clair	48079	Yes	WiFi connection to the internet service	Yes	St. Clair County, Michij	Cable	10 to 24.99 Mbps

Residential Survey Responses - Cottrellville and St Clair Townships - as of Dec 10, 2020 (continued)

What is your age?	Do you, or does anyone in your household, currently own or operate a business (either part-time or full-time) out of your home?	Are you a full-time or part-time resident of the community?	Are you interested in being informed of high-speed internet developments in your community or the results of this survey?	Any additional comments or concerns?	Member	State	Created	Updated
						Approved	18/11/2020 21:46	18/11/2020 21:51
						Approved	20/11/2020 02:57	20/11/2020 02:57
	No	Full-time resident (you No				Approved	18/11/2020 22:01	18/11/2020 22:01
	Yes	Full-time resident (you Yes				Approved	18/11/2020 16:08	18/11/2020 16:08
						Approved	18/11/2020 14:37	18/11/2020 14:41
	Yes	Full-time resident (you Yes		Planned to move my business to my home bu		Approved	19/11/2020 08:51	19/11/2020 08:51
	No	Full-time resident (you Yes				Approved	18/11/2020 17:17	18/11/2020 17:17
						Approved	19/11/2020 14:21	19/11/2020 14:22
	Yes	Full-time resident (you No				Approved	20/11/2020 10:50	20/11/2020 10:50
	No	Full-time resident (you Yes		Please put us on the Internet grid!		Approved	18/11/2020 19:06	18/11/2020 19:06
						Approved	18/11/2020 19:25	18/11/2020 19:30
	No	Full-time resident (you Yes				Approved	18/11/2020 17:05	18/11/2020 17:05
	No	Full-time resident (you Yes		State ,county and township need to come up		Approved	19/11/2020 08:54	19/11/2020 08:54
						Approved	18/11/2020 20:13	18/11/2020 20:15
						Approved	19/11/2020 07:43	19/11/2020 07:43
						Approved	18/11/2020 18:02	18/11/2020 18:04
	No	Full-time resident (you Yes				Approved	19/11/2020 21:52	19/11/2020 21:52
						Approved	18/11/2020 20:49	18/11/2020 20:49
	No	Full-time resident (you Yes		Serving as a Township Official, my concern wi		Approved	07/12/2020 09:43	07/12/2020 09:43
	No	Full-time resident (you Yes				Approved	18/11/2020 19:03	18/11/2020 19:03
						Approved	09/12/2020 08:42	09/12/2020 08:43
						Approved	19/11/2020 19:44	19/11/2020 19:50
	No	Full-time resident (you Yes				Approved	19/11/2020 20:16	19/11/2020 20:16
						Approved	18/11/2020 18:00	18/11/2020 18:08
	Yes	Full-time resident (you No				Approved	19/11/2020 19:49	19/11/2020 19:49
	No	Full-time resident (you Yes				Approved	18/11/2020 17:11	18/11/2020 17:11
	Yes	Full-time resident (you Yes				Approved	18/11/2020 22:08	18/11/2020 22:08
	I'd rather not say	Full-time resident (you Yes				Approved	18/11/2020 18:42	18/11/2020 18:42
	Yes	Full-time resident (you Yes				Approved	18/11/2020 20:29	18/11/2020 20:29
						Approved	18/11/2020 17:21	18/11/2020 17:21
	Yes	Full-time resident (you Yes		We are very concerned that we don't have hi		Approved	18/11/2020 17:06	18/11/2020 17:06
	Yes	Full-time resident (you No				Approved	18/11/2020 16:30	18/11/2020 16:30
						Approved	18/11/2020 18:34	18/11/2020 18:35
						Approved	18/11/2020 21:22	18/11/2020 21:22
						Approved	30/11/2020 11:23	30/11/2020 11:23
	No	Full-time resident (you Yes				Approved	19/11/2020 16:35	19/11/2020 16:35
	No	Full-time resident (you Yes				Approved	19/11/2020 14:09	19/11/2020 14:09
	No	Full-time resident (you Yes				Approved	18/11/2020 16:45	18/11/2020 16:45
	Yes	Full-time resident (you Yes				Approved	18/11/2020 16:20	18/11/2020 16:20
	No	Full-time resident (you Yes				Approved	19/11/2020 19:19	19/11/2020 19:19
	No	Full-time resident (you Yes				Approved	18/11/2020 22:36	18/11/2020 22:36
	No	Full-time resident (you Yes				Approved	19/11/2020 07:58	19/11/2020 07:58
	No	Full-time resident (you No				Approved	18/11/2020 16:24	18/11/2020 16:29
	No	Full-time resident (you Yes				Approved	18/11/2020 15:34	18/11/2020 15:34
	No	Full-time resident (you No				Approved	18/11/2020 22:32	18/11/2020 22:32
						Approved	30/11/2020 08:19	30/11/2020 08:23
	No	Full-time resident (you Yes				Approved	18/11/2020 17:45	18/11/2020 17:45
						Approved	10/11/2020 08:17	10/11/2020 08:18
						Approved	02/12/2020 10:24	02/12/2020 10:29
	No	Full-time resident (you No				Approved	30/11/2020 18:14	30/11/2020 18:14
	No	Full-time resident (you Yes		I need a faster internet connection as I am en		Approved	18/11/2020 21:07	18/11/2020 21:07
	No	Full-time resident (you Yes				Approved	19/11/2020 13:23	19/11/2020 13:23
	No	Full-time resident (you Yes				Approved	03/12/2020 20:52	03/12/2020 20:52
	No	Full-time resident (you Yes		Cannot use smart tv because internet is not fi		Approved	19/11/2020 14:27	19/11/2020 14:27
	Yes	Full-time resident (you Yes				Approved	18/11/2020 21:20	18/11/2020 21:20
						Approved	19/11/2020 16:19	19/11/2020 16:19
	Yes	Full-time resident (you No				Approved	07/12/2020 12:48	07/12/2020 12:48
	No	Full-time resident (you Yes				Approved	19/11/2020 10:25	19/11/2020 10:25
						Approved	18/11/2020 19:02	18/11/2020 19:14
						Approved	25/11/2020 07:29	25/11/2020 07:29
	No	Full-time resident (you Yes				Approved	23/11/2020 08:54	23/11/2020 08:55
						Approved	18/11/2020 18:49	18/11/2020 18:49
	No	Full-time resident (you Yes		We moved to St. Clair 5 years ago and live in		Approved	19/11/2020 07:35	19/11/2020 07:35
	No	Full-time resident (you Yes				Approved	30/11/2020 14:17	30/11/2020 14:17
						Approved	27/11/2020 02:34	27/11/2020 02:35
	No	Full-time resident (you Yes				Approved	24/11/2020 04:14	24/11/2020 04:14
	Yes	Full-time resident (you Yes				Approved	18/11/2020 17:55	18/11/2020 17:55
	No	Full-time resident (you No				Approved	19/11/2020 01:10	19/11/2020 01:10
	No	Full-time resident (you Yes				Approved	21/11/2020 14:30	21/11/2020 14:30
	No	Full-time resident (you Yes				Approved	18/11/2020 16:33	18/11/2020 16:33

			Approved	19/11/2020 14:00	19/11/2020 14:00
No	Full-time resident (you Yes		Approved	19/11/2020 15:42	19/11/2020 15:42
Yes	Full-time resident (you Yes		Approved	19/11/2020 12:48	19/11/2020 12:48
	Full-time resident (you Yes		Approved	22/11/2020 11:00	22/11/2020 11:00
No	Full-time resident (you No	None	Approved	23/11/2020 14:09	23/11/2020 14:09
No	Full-time resident (you Yes	We would really like an option for unlimited f	Approved	19/11/2020 12:12	19/11/2020 12:12
Yes	Full-time resident (you Yes		Approved	21/11/2020 20:41	21/11/2020 20:41
No	Full-time resident (you Yes	trapped in a area without high speed access.	Approved	18/11/2020 16:39	18/11/2020 16:39
			Approved	17/11/2020 12:17	17/11/2020 12:18
No	Full-time resident (you Yes	We signed a two year contract with Hughsnet	Approved	04/12/2020 12:46	04/12/2020 12:46
			Approved	18/11/2020 19:51	18/11/2020 19:55
			Approved	02/12/2020 22:08	02/12/2020 22:08
			Approved	20/11/2020 11:56	20/11/2020 11:58
Yes	Full-time resident (you No		Approved	19/11/2020 12:27	19/11/2020 12:27
Yes	Full-time resident (you No		Approved	03/12/2020 10:38	03/12/2020 10:38
			Approved	18/11/2020 15:54	18/11/2020 15:54
No	Full-time resident (you Yes	All my neighbors want a wired internet also	Approved	19/11/2020 13:08	19/11/2020 13:08
No	Full-time resident (you Yes		Approved	19/11/2020 17:35	19/11/2020 17:35
Yes	Full-time resident (you Yes		Approved	18/11/2020 20:41	18/11/2020 20:41
No	Full-time resident (you Yes		Approved	19/11/2020 17:02	19/11/2020 17:02
No	Full-time resident (you Yes	It would be nice to have choices of internet p	Approved	12/11/2020 09:24	12/11/2020 09:24
No	Full-time resident (you Yes		Approved	21/11/2020 11:45	21/11/2020 11:45
No	Full-time resident (you Yes	I would be extremely interested in high speec	Approved	18/11/2020 23:42	18/11/2020 23:42
Yes	Full-time resident (you Yes	We have mobil data on our phones that we c.	Approved	20/11/2020 09:41	20/11/2020 09:41
			Approved	21/11/2020 13:44	21/11/2020 13:49
No	Full-time resident (you Yes		Approved	09/12/2020 19:12	09/12/2020 19:12
No	Full-time resident (you Yes		Approved	22/11/2020 17:01	22/11/2020 17:01
No	Full-time resident (you Yes	It would be nice to have affordable high spee	Approved	19/11/2020 04:25	19/11/2020 04:25
No	Full-time resident (you Yes		Approved	19/11/2020 10:08	19/11/2020 10:08
No	Full-time resident (you Yes		Approved	18/11/2020 17:36	18/11/2020 17:36
			Approved	18/11/2020 15:57	18/11/2020 16:05
No	Full-time resident (you Yes	Present internet speed is at the bottom of th	Approved	19/11/2020 21:43	19/11/2020 21:43

ST. CLAIR TOWNSHIP

1539 S. Bartlett Rd. St. Clair, MI 48079

Phone (810) 329-9042 Fax (810) 329-1198

www.stclairmi.org

December 21, 2020

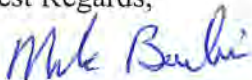
To Whom It May Concern,

The number one concern of the residents and businesses of St Clair Township is broadband access. My office receives at a least one call per week regarding the lack of broadband. Prominent on the Township website home page is the Connect Michigan Internet Survey link. I will request data from Connect Michigan and forward the results to the Duke Broadband team.

RESA fiber terminates at the Township Hall. The Duke/RESA partnership will fast track the build out to the unserved residents of the Township. The Township is thrilled that the proposed solution will be fiber to the home. We enthusiastically support Duke Broadband and will provide any assistance we can to assure that our Township receives the needed investment to finally address this long-standing problem.

Please feel free to reach out to our office should you have any questions or need additional information.

Best Regards,



Mike Boulter
Township Supervisor



December 9, 2020

To whom it may concern,

It is shocking to learn that St. Clair County, a fringe county of Metro Detroit, is ranked as having some of the worst broadband connectivity in the State of Michigan. As a Connect Michigan Community, the second to be designated in Michigan, and after years of working at a committee level, the county is no farther ahead today than when it began. This is an example of where public resources are needed to subsidize private dollars in order to overcome this problem.

Prior to the COVID-19 pandemic, St. Clair County was beginning to see a resurgence of people moving to the area to take advantage of the county's unique quality of life assets, including natural resources such as Lake Huron, Lake St. Clair, and the St. Clair River. The COVID-19 pandemic forced many people to work remotely at least part of the work week. St. Clair County is a prime location for remote workers because 40% of its workforce commutes to the Metro Detroit area to work. The pandemic may forever change the way that many people work. In the very near future, it is likely that many people will work from home or remote offices, reducing their need to commute daily. This intensifies the need for high-speed internet to be installed in the underserved areas of the country.

Duke Broadband is a company that is choosing to serve rural communities. It has held substantive discussions with RESA, the intermediate school district in St. Clair County which operates its own fiber network. Collaborating together, this public/private partnership can begin to tackle underserved areas in our county, including dark spots in St. Clair and Cottrellville Townships.

The Economic Development Alliance is very supportive of their efforts knowing the importance of high-speed internet for creating an effective and resilient economy.

Sincerely,

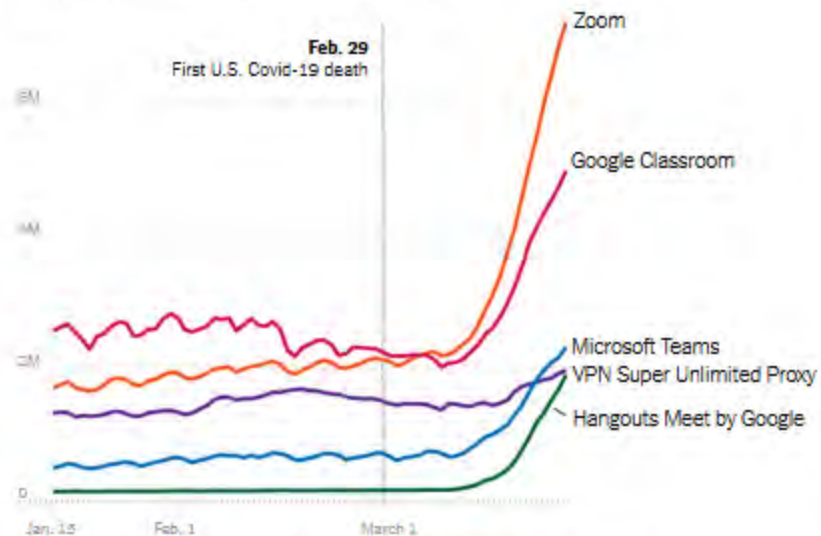
Daniel B. Casey
CEO
Economic Development Alliance

The Virus Changed the Way We Internet

By Ella Koeze and Nathaniel Popper April 7, 2020

We have suddenly become reliant on services that allow us to work and learn from home

Daily app sessions for popular remote work apps



App popularity according to iOS App Store rankings on March 16-18. Source: Apptopia

The offices and schools of America have all moved into our basements and living rooms. Nothing is having a more profound impact on online activity than this change. School assignments are being handed out on Google Classroom. Meetings are happening on Zoom, Google Hangouts and Microsoft Teams. The rush to these services, however, has brought [new scrutiny on privacy practices](#).

Access to Work from Home Benefits Has Doubled Since 2011

% with Access Increased from 28% to 54%, Rating Up at Decade High of 4.3



Source: Glassdoor, Jan 2011 - Mar 2020

● % with Access ● Benefit Rating

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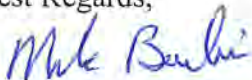
To Whom It May Concern,

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RESA fiber terminates at the Township Hall. The Duke/RESA partnership will fast track the build out to the unserved residents of the Township. The Township is thrilled that the proposed solution will be fiber to the home. We enthusiastically support Duke Broadband and will provide any assistance we can to assure that our Township receives the needed investment to finally address this long-standing problem.

Please feel free to reach out to our office should you have any questions or need additional information.

Best Regards,



Mike Boulter
Township Supervisor



REGIONAL EDUCATIONAL SERVICE AGENCY
Kevin Miller, Ph.D., Superintendent

499 Range Road, PO Box 1500
Marysville, MI 48040
(810) 455-403 | (810) 364-7474 Fax
www.sccresa.org

December 9, 2020

To whom it may concern,

St. Clair County, Michigan is one of the top priorities of organizations like Connect Michigan as we have numerous regions of our county considered either underserved or unserved by broadband internet. The large national broadband providers simply aren't interested in installing fiber to reach the rural areas of our county.

If we have learned anything from the COVID-19 pandemic, broadband is essential to erasing the digital divide between the broadband "haves" and "have-nots". Our seven districts have been serving students in a virtual setting since March 17, 2020 and "learning at home" has become an integral part of the way education reaches its students. Unfortunately, in our county, there are thousands of students who do not have reliable internet for learning at home.

Duke Broadband is a company that has a passion for serving these rural communities. St. Clair County RESA owns a 200-mile fiber network that serves more than 50 educational buildings as well as the entire library system and its branches. Duke has reached out to us as a partner to bring fiber to these unserved rural communities.

It is partnerships between private companies like Duke and public entities like RESA that will have the greatest impact in the future on areas unserved by fiber networks. Duke has a plan to reach two of our largest internet deserts in the county, St. Clair and Cottrellville Townships using our network as a backbone. We give our full support to Duke Broadband and will be proud to partner with them, making our network available to them to help reach these areas.

Sincerely,

A handwritten signature in black ink that reads "Kevin D. Miller".

Kevin D. Miller, Ph.D.
Superintendent
St. Clair County RESA



COUNTY OF ST. CLAIR



Metropolitan Planning Commission

David Struck, Director

December 10, 2020

To Whom It May Concern:

On behalf of the St. Clair County Metropolitan Planning Commission, I am pleased to offer support for the Duke Broadband grant application. St. Clair County is one of the top priorities of organizations like Connect Michigan, as we have numerous regions of our county considered either underserved or unserved by broadband internet. The large national broadband providers simply are not interested in installing fiber to reach the rural areas of our county.

Duke Broadband is a company that has a passion for serving these rural communities. St. Clair County RESA owns a 200-mile fiber network that serves more than 50 educational buildings as well as the entire county library system and its branches. Duke Broadband has reached out to St. Clair County RESA as a partner to bring fiber to these unserved rural communities.

It is partnerships between private companies like Duke Broadband and public entities like St. Clair County RESA that will have the greatest impact in the future on areas unserved by fiber networks. Duke has a plan to reach two of the largest internet deserts in the county, St. Clair and Cottrellville Townships using RESA's network as a backbone.

The Metropolitan Planning Commission recognizes the importance of local broadband access. Technology plays a pivotal role in how businesses operate, how institutions provide services, and where consumers choose to live, work, and play. Particularly during the COVID-19 pandemic, we have residents in rural areas that have been forced to attend school or work remotely and do not have adequate broadband service. The problems they face have been amplified in these difficult times.

The *St. Clair County Technology Action Plan* was adopted to summarize the community's assessment of local broadband access, adoption, and use, as well as the best next steps for addressing any deficiencies or opportunities for improving the local technology ecosystem. The plan includes a number of goals that support the Duke Broadband grant application, including developing public-private partnerships to deploy broadband service.

We are pleased to offer our support for the Duke Broadband application, which will help expand the broadband network throughout St. Clair County.

Sincerely,

David Struck, AICP
Planning Director/Deputy County Administrator