

Attachment A, Project Description



Attachment A, Project Description - Certified Preliminary Technical Evaluation

CERTIFICATION

I, the undersigned Professional Engineer, have reviewed and do hereby certify that the data included in this ADECA Broadband Grant Application is correct to the best of my knowledge and belief and that the costs and timeline for construction are reasonable and prudent. I based my technical evaluation of this project on my years of experience of working on similar projects in size and scope.

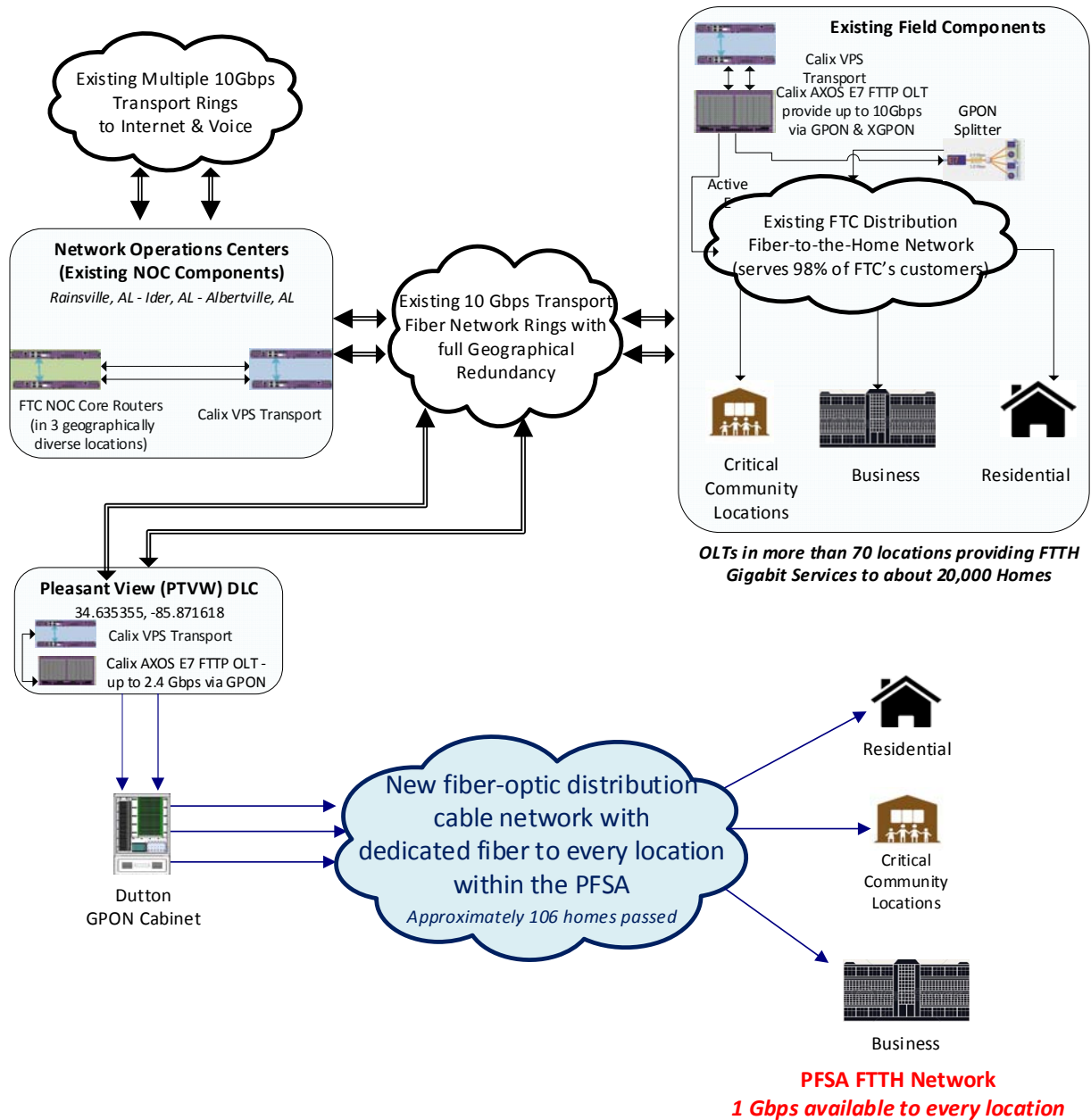
2/5/21

Date

Carol Leigh Brackett
Carol Leigh Brackett
Alabama Registered Engineer No. 25055

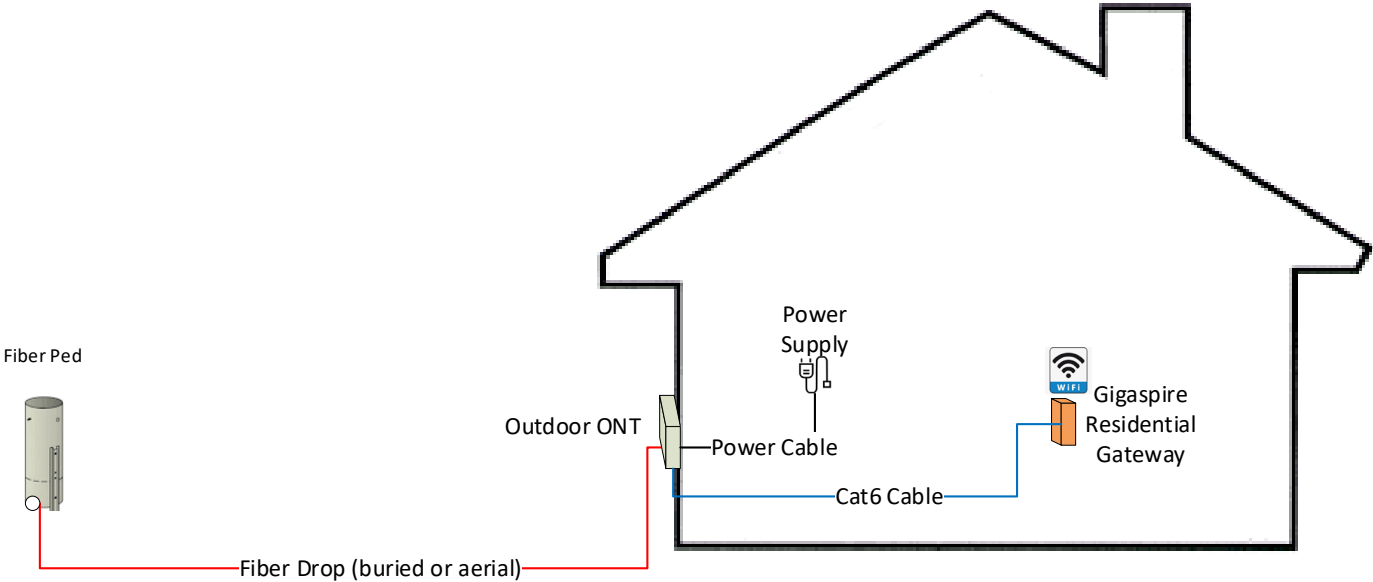


Attachment A, Project Description - Proposed Network

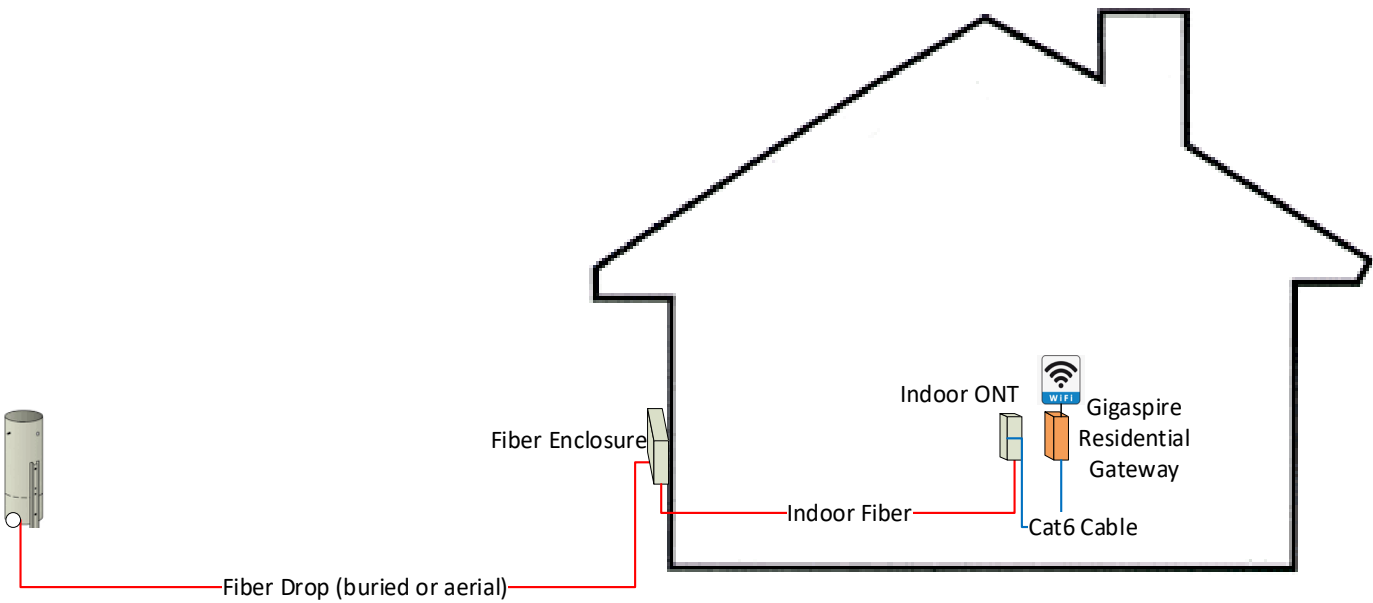


Attachment A, Project Description – Home Connectivity Options

Outdoor ONT Home Diagram



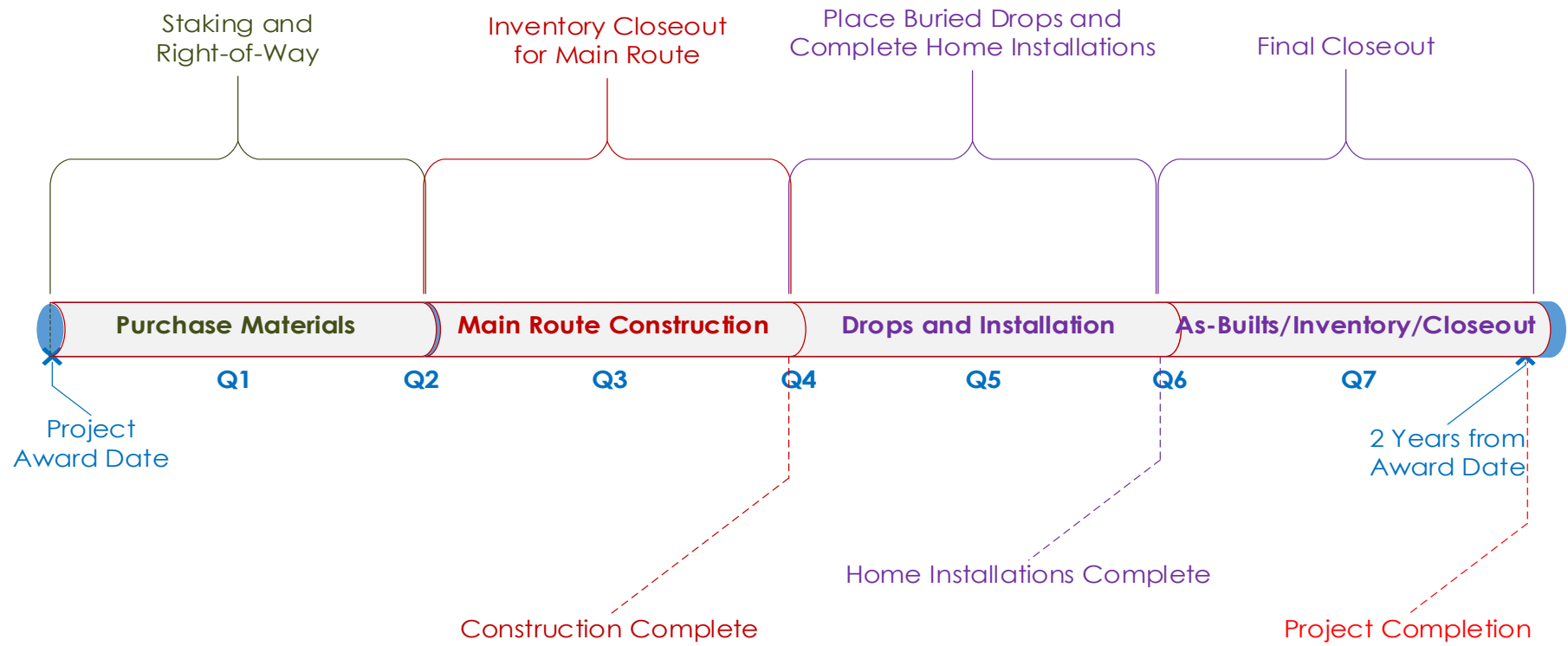
Indoor ONT Home Diagram



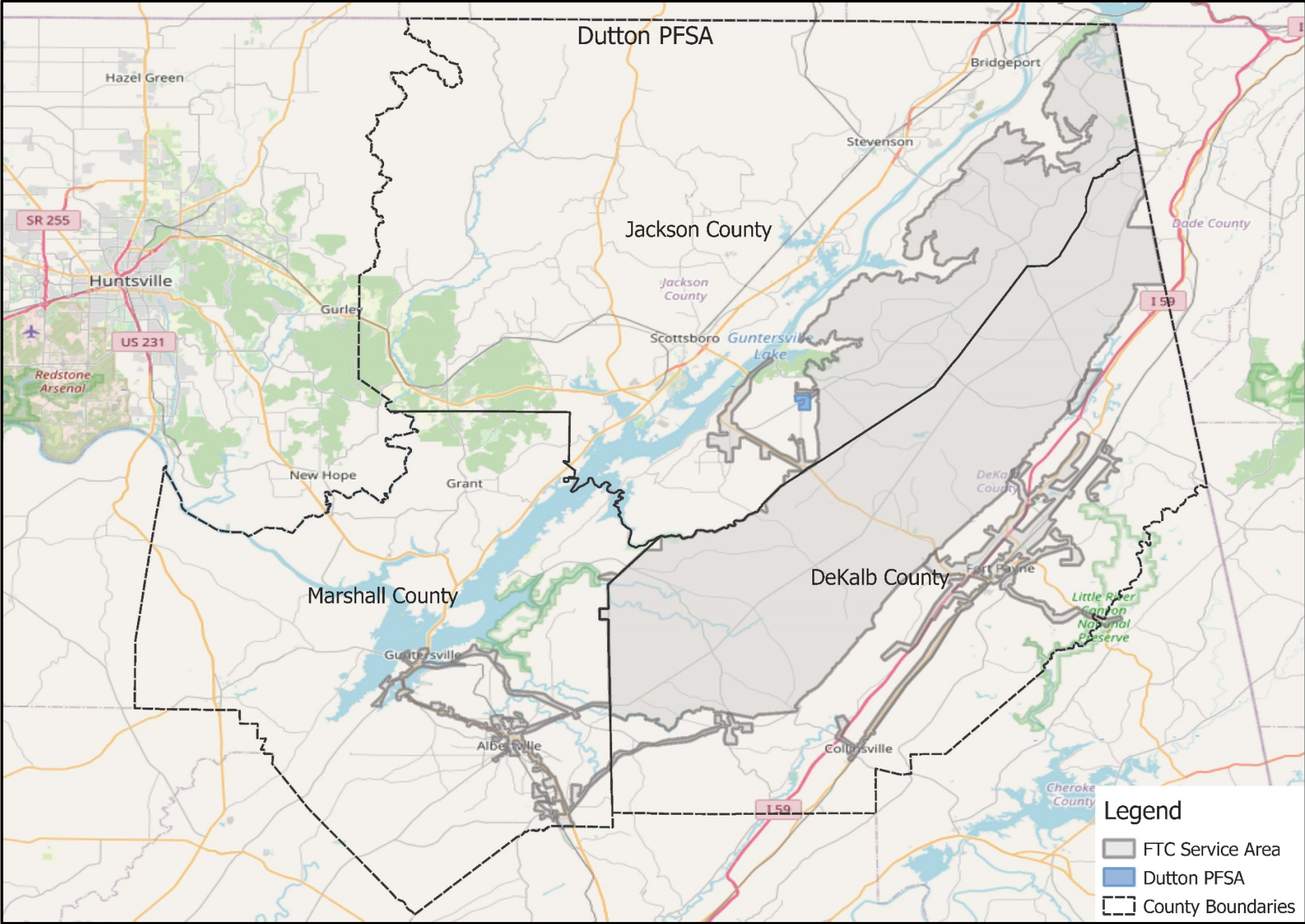
Attachment A, Project Description – Survey Results

Dutton Survey Results						
Address	Who is your Internet Service Provider?	What is your download speed (Mbps)?	What is your upload speed (Mbps)?	What problems do you or your household face due to the unavailability of broadband?	How would having access to broadband in your area increase your quality of life?	Have you experienced any hardships during the COVID-19 pandemic due to the lack of adequate broadband access?
100 Fritts Dr Dutton AL 35744	CenturyLink	11mps	0.65	Children can not do there school work. I can not attend video calls for work. My home security system can not work to communicate with its central station. Kids can not play games either	It would greatly improve. We can live like a family in 2020. We can get school work done, Get are office work done and so on. We have debated buying a home elsewhere so we can have these basic luxuries	Yes are kids are doing virtual school due to the virus and can not do that because are internet is so slow. We have to travel to other cities and upload there work
4829 AL Highway 71 Dutton AL 35744	Century Link	6	2	All of the above. Healthcare, education, im self employed and have a terrible time getting work done on the internet	Work and family life would be improved.	Yes trying to communicate with family across the country was near impossible.
74 Pleasant Hill Rd Dutton Al 35744	Century Link	10Mbps	10Mbps	Some functions for my son's e-learning do not seem work properly due to our slow internet speed. Working from home was very tedious as the slow speed caused major delays. We also can't both use the internet at the same time for work & school. I wanted to get wireless cameras for our home to discourage would be intruders but due to our Internet being insufficient for regular daily use already there was no point it buying them.	I would be able to work from home more often and be able to supervise my child during the school shutdowns.	Yes. I would have been able to work from home more often and minimise my family's exposure during the pandemic.
158 Circle Dr Dutton AL 35744	Century link	Average of 5, as low as 1.7	0.7	The internet is so frustrating. We can't stream tv without constant buffering. Our phones with Verizon internet is way faster for everyday use.	Faster internet would make things easier here. Getting any service from century link is an act of Congress. If we can't get farmers soon we are going to have to pay a ton of money and buy a modem and use cell tower internet.	Yes. Paying bills online is difficult. Any school work is difficult.
254 Circle Dr Dutton AL 35744	CenturyLink	25	1.5	Working from home and heavy demand for bandwidth with multiple devices trying to perform tasks at once	The stresses of wifi sharing in a family household would be no more. Mom can upload her vacation pics while dad browses the internet and the sons play their video games.	Uploading files to clients is a NIGHTMARE with CenturyLinks 1.5 Mbps
431 Main St Dutton AL 35744	Centurylink	15	1	Slow streaming and limited speed		
4836 Al Highway 71 Dutton Al 35744	Verizon Hotspot	51.3	2.4	Education barriers. Work from home.	Work and school would improve.	Yes. Not able to complete work and school assignments
101 Co Rd 416 Dutton AL 35744	CenturyLink	22	2	Frequently lost internet connection hinders wife's graduate distant learning course.		
18 Christopher Ln Dutton AL 35744	Hughs net	10	3	Freezing	School work. Gaming. Video chat	
39 Park Rd Dutton Al 35744	Centurylink	11 I think	.7 I think	Always going out, super slow, internet lagging	Be able to access internet quicker, tv wouldn't lag, computer wouldn't lag	No
190 College Rd Dutton AL 35744	Century link	I don't know	I don't know	Education barriers	Able to properly do school work online	
190 College Rd Dutton AL 35744	Century link	6	0.7	Education barriers	Be able to do classes online without issues	

Attachment A, Project Description – Project Schedule and Timeline



Attachment A, Project Description – Dutton PFSA Maps



[illegible]

Legend

- Grid
- FTC Service Area
- Dutton PFSA

Legend

- Grid
- FTC Service Area
- Dutton PFSA

Legend

- Grid
- FTC Service Area
- Dutton PFSA

Legend

- Grid
- FTC Service Area
- Dutton PFSA

Dutton PFSA

