



Le Sueur County, MN

Tuesday, June 19, 2018

Board Meeting

Item 4

9:45 a.m. Jim McMillen (15 min)

RE: VIA

RE: Justice Center Radio System

Staff Contact:

Neisen, Jeff

From: Missy Johnson <MissyJohnson@tierneybrothers.com>
Sent: Friday, June 08, 2018 2:42 PM
To: Neisen, Jeff
Subject: RE: Demo Product

Jeff here are the list prices for the Collage, Connect Plus and Connect Pro. The Plus just came out.

Collage \$3600
Connect Plus \$1595
Connect Pro \$995

Compares the Campus to the Plus and Pro https://k.kramerav.com/downloads/pdf/via/VIA_Features_Table_March2018.pdf

Plus is the only one with a HDMI Input. The Pro and Plus a exactly the same except for the HDMI input.

The Campus add on gives you.

- Windows PC Platform
- Recording
- Polling
- Web Browser
- Third Party Apps
- 4K output
- Unified Communications
- Customizable Screen
- 60GB Campus storage vs 32GB Connect Pro and Plus
- Campus can show 6 users per screen and the Plus and Pro can show 4 per screen

Board Room
Human Services
Service
EOL x 2
Roll Call 1
GT2CF Conf (5)?
Current

Kramer is in the process of discontinuing the Collage the only real difference between the Campus and Collage is the HDMI and VGA Input.

Campus pricing. Savings

Qty 1-3
\$1894.34ea \$0 Savings

Qty 4-10
\$1759 ea \$135.34 per unit

Qty 11-16
\$1699 ea \$195.34 per unit (11 saves 2148 74)

Qty 17+
\$1549 ea

Via Pad \$100 ea
Rack Mount \$109 ea

Missy Johnson | Tierney

missyjohnson@tierneybrothers.com

P: 612-455-3865 | F: 612-331-3424

From: Missy Johnson

Sent: Friday, June 1, 2018 7:01 PM

To: 'Neisen, Jeff' <jneisen@co.le-sueur.mn.us>

Subject: RE: Demo Product

That's no problem Jeff. They do give us a 30 day window but I usually say 2 weeks do to transit times and the shorter the window the less chance it gets forget.

I am at a trade show next week but will be online from time to time if you need help feel free to call into our tech service department at 800.933.7337

Missy Johnson | Tierney

missyjohnson@tierneybrothers.com

P: 612-455-3865 | F: 612-331-3424

From: Neisen, Jeff [<mailto:jneisen@co.le-sueur.mn.us>]

Sent: Thursday, May 31, 2018 8:39 AM

To: Missy Johnson <MissyJohnson@tierneybrothers.com>

Cc: IT <IT@co.le-sueur.mn.us>

Subject: Demo Product

With the holiday week and needing to order a few additional adapters/splitters/etc to test this properly with our current board room setup, would it be possible to get this through the end of next week? I'm out the following 2 weeks, so we will know what the status is by end of next week.

Jeff Neisen

Le Sueur County

IT Director

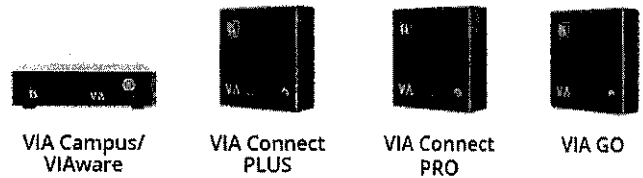
507-357-8101










jneisen@co.le-sueur.mn.us

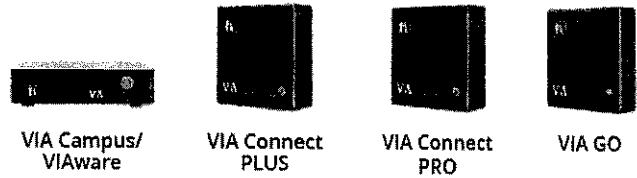


VIA Campus/
VIAware VIA Connect
PLUS VIA Connect
PRO VIA GO

	Wireless Connection BYOD connectivity from any PC, Mac, Chromebook, or iOS & Android device	✓	✓	✓	✓
	Powerful Content Security User authentication, 1024-bit data encryption, dynamic room code	✓	✓	✓	✓
	Mobile Mirroring Show any content from your iOS, Android or Chromebook device on the main display	✓	✓	✓	✓
	Full HD Video Streaming Stream uninterrupted full-HD wireless video (up to 1080p60), images and documents in the room or from a remote location	✓	✓	✓	✓
	Integrated YouTube Player Create playlists, share videos or drag and drop any YouTube clip to your VIA app for seamless video playback	✓	✓	✓	✓
	Do Not Disturb (DND) Give the presenter complete control by disabling collaboration features	✓	✓	✓	✓
	Customizable Features Enable or disable features based on need	✓	✓	✓	✓
	VIA Pad Compatible Touch-and-Present USB device for laptops	✓	✓	✓	✓
	VIA Site Management (VSM) Monitor, control and get actionable analytics from all VIA devices on the network; schedule firmware updates, and more	✓	✓	✓	✓



	VIA Campus/ VIAware	VIA Connect PLUS	VIA Connect PRO	VIA GO
 Digital Signage (available as an optional license) Display dynamic content on the main display during meeting downtime	✓	✓	✓*	✓
 Streaming Output Stream all collaboration activity from the main display to any H264 decoder	✓	✓	✓*	
 View Main Display View the main display on your own device	✓	✓	✓	
 File Storage Drag and drop files to the Files folder to share instantly with other users	✓	✓	✓	
 File Sharing Share any size file with any number of participants	✓	✓	✓	
 Whiteboard Annotate, illustrate and edit shared documents: touch-screen compatible	✓	✓	✓	
 Chat Send an instant message to another participant	✓	✓	✓	
 Enable Control Give a participant control over a presenter's Mac or PC laptop; enable collective document editing	✓	✓	✓	
 Windows PC Operating Platform Can be used as an in-room Windows PC with full Windows capabilities	✓			



	VIA Campus/ VIAware	VIA Connect PLUS	VIA Connect PRO	VIA GO
 Recording Record an entire VIA video and audio session to a local video file	✓			
 Native ePolling Offer custom e-Polling to users and produce reports	✓			
 Web Browser Access any web browser and display content from any website	✓			
 Third Party Apps Support for office and conferencing applications such as Microsoft Office®, Skype™ for Business, GotoMeeting®, and WebEx®	✓			
 4K-UHD Output Present 4K-UHD content to compatible 4K-UHD displays	✓			
 Unified Communications Combine chat, video conferencing, team collaboration, and more in one platform	✓			
 HDMI Input Connect any HDMI source (camera, media player, PC) and present it on the main display		✓		
 Customizable Screen Layout Determine how single or multiple presenter screens appear on your main display	✓			

PSC Alliance Inc.

7900 International Dr – Suite 300
Bloomington, MN 55425
e-mail: jeff.nelson@psc Alliance.com

MEMORANDUM

Telephone (612) 216-1502
FAX (888) 384-9171

DRAFT

To: Sheriff Brett Mason, Le Sueur County
cc: Jeff Neisen, IT Director

From: Jeff Nelson

Re: Radio System Design Options at Justice Center

Date: June 18, 2018

Sheriff,

As you are already aware from recent meetings and discussions, the topic of whether a new radio tower is needed at the justice center has been extensively analyzed. As construction progresses on the new justice center complex, a decision concerning the radio tower construction now needs to be made. We understand that there are no current plans to dismantle the County's existing radio tower at 88 S. Park Avenue and that the County intends to preserve and continue to conduct business operations from the historic jail building.

Since 2012 Le Sueur County's primary public safety radio communications have been conducted using the ARMER¹ network. Using ARMER the County presently links its dispatch operations at the LEC, via microwave radio, to a series of remote sites. Recent project discussions have explored connecting the new justice center to two remote ARMER sites within the County via "dark"² fiber optic cable as a substitute for microwave radio links. Those same discussions have also explored linking the justice center to the courthouse and old jail via fiber which would allow remote control of antennas now affixed to the existing radio tower.

County staff contacted Jaguar Communications of Owatonna concerning lease costs for dark fiber. (Jaguar already has an extensive network of fiber optical cable distributed within Le Sueur County.) As negotiations with Jaguar have progressed, we believe that the feasibility of using dual routed fiber, for redundancy, from the historic jail to the new justice center make this alternative technically viable and allow for cost containment.

Representatives from the BKV Group (architectural team) have estimated the budgetary cost of planning and erecting a new tower at the Justice Center at approximately \$318,000. The one-time equipment/installation and recurring costs of fiber compare favorably and offer similar reliability with costs summarized in the table below. From meetings with the project team we also understand that a previously identified and proposed secondary use of a new tower at the Justice Center is to support two elevated amateur ("ham") radio antennas. Suitable technology exists that would also allow for remote control of ham radio equipment, installed at the old jail, with antennas affixed to the existing tower, using fiber optic links.

-continued-

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- 1 ARMER is Allied Matrix for Emergency Response (a statewide public safety 2-way radio system).
 - 2 Dark fiber typically refers to fiber leased from a provider which is then "lit" by the user, using equipment furnished by the user, to connect locations together and establish communications pathways.

Technology Consulting

Suitable partitioning of traffic on the fiber, to separate the public safety traffic from the ham radio traffic is easily accomplished. Existing high frequency radio base station equipment now used by the ham operators may need to be replaced to allow remote control as described here.

We also take this opportunity to point out that the existing microwave radio links will reach the end of their support life cycle in approximately 2022. Therefore, the County will confront a decision to retire/replace these links at that time if a fiber connection strategy is not implemented. Replacement cost estimated using 2022 dollars, for two existing links of microwave radio equipment is forecast at \$150,000.

The financial aspects of establishing redundant fiber optic links used to support radio communications between the new justice center, the old jail, and two remote ARMER tower sites are as follows:

Description	Cost
Fiber construction to MnDOT Wild Creek ARMER tower	\$ 39,000
Fiber construction to Le Sueur water tank (ARMER site)	\$ 27,000
Fiber Loop construction from Justice Center to Old Jail	\$ 47,000
Fiber optic end-point equipment for radio	\$ 21,000
Fiber optic equipment installation, optimization, commissioning	\$ 18,000
Amateur radio remote controllable, HF radio equipment allowance	\$ 6,000
Subtotal	\$158,000
BKV Estimate for Radio Tower at Justice Center	\$318,000
<i>Avoided cost fiber vs. new radio tower (\$318,000 – \$158,000)</i>	<i>-\$160,000</i>

Fiber Related Capital Costs

In addition to capital cost, there are also monthly recurring charges to lease the dark fiber from Jaguar. Those cost estimates are shown in the table below:

Description	Cost 10 Yrs
MnDOT Wild Creek Tower – 10 year term \$325/month	\$ 39,000
Le Sueur Water Tank - 10 year term \$325/month	\$ 39,000
Fiber Loop JC to Jail - 10 year term \$325/month	\$ 39,000
Estimated maintenance/support of FOT	\$ 20,000
Subtotal	\$137,000

Monthly Recurring Fiber Lease Costs

Summary

There are still some open technical logistics to be worked out with Jaguar if the County Board approves substituting fiber optic connections to support radio communications from the new Justice Center to the old jail/existing tower. Therefore, the purpose of this memo is to seek agreement-in-principle for the concepts set forth above. We believe that Jaguar’s lease and construction costs are “in the ballpark” but await their final written confirmation as this memo is prepared.

Le Sueur Water tower - Public Safety Tower
Sueur
Sueur

Lexington

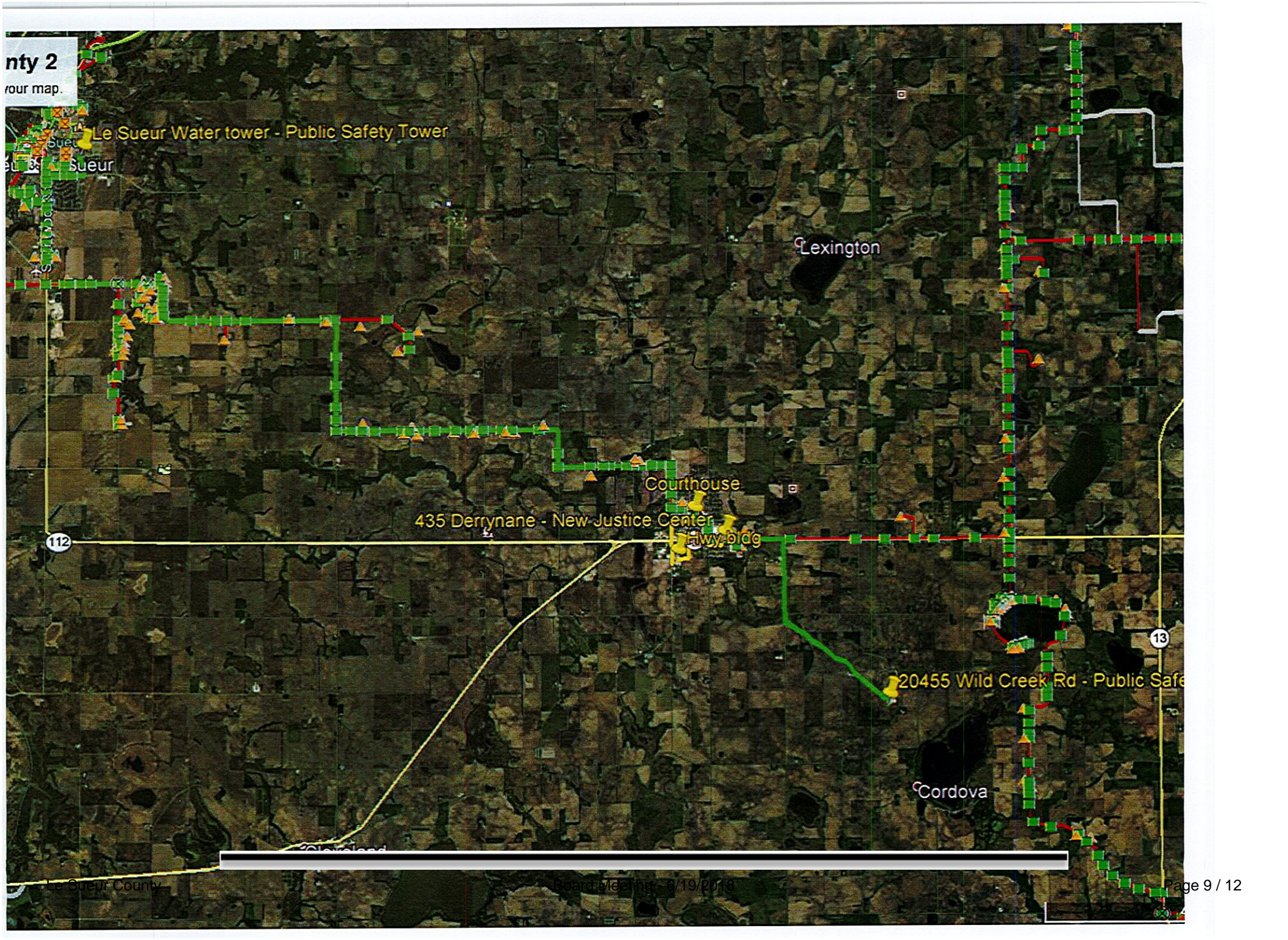
Courthouse
435 Derrynane - New Justice Center
Hwy bldg

20455 Wild Creek Rd - Public Safe

Cordova

112

13






REVISED FIBER ROUTE

Submitted by Le Sueur County IT and Maintenance Division

Le Sueur County


Road Centerlines

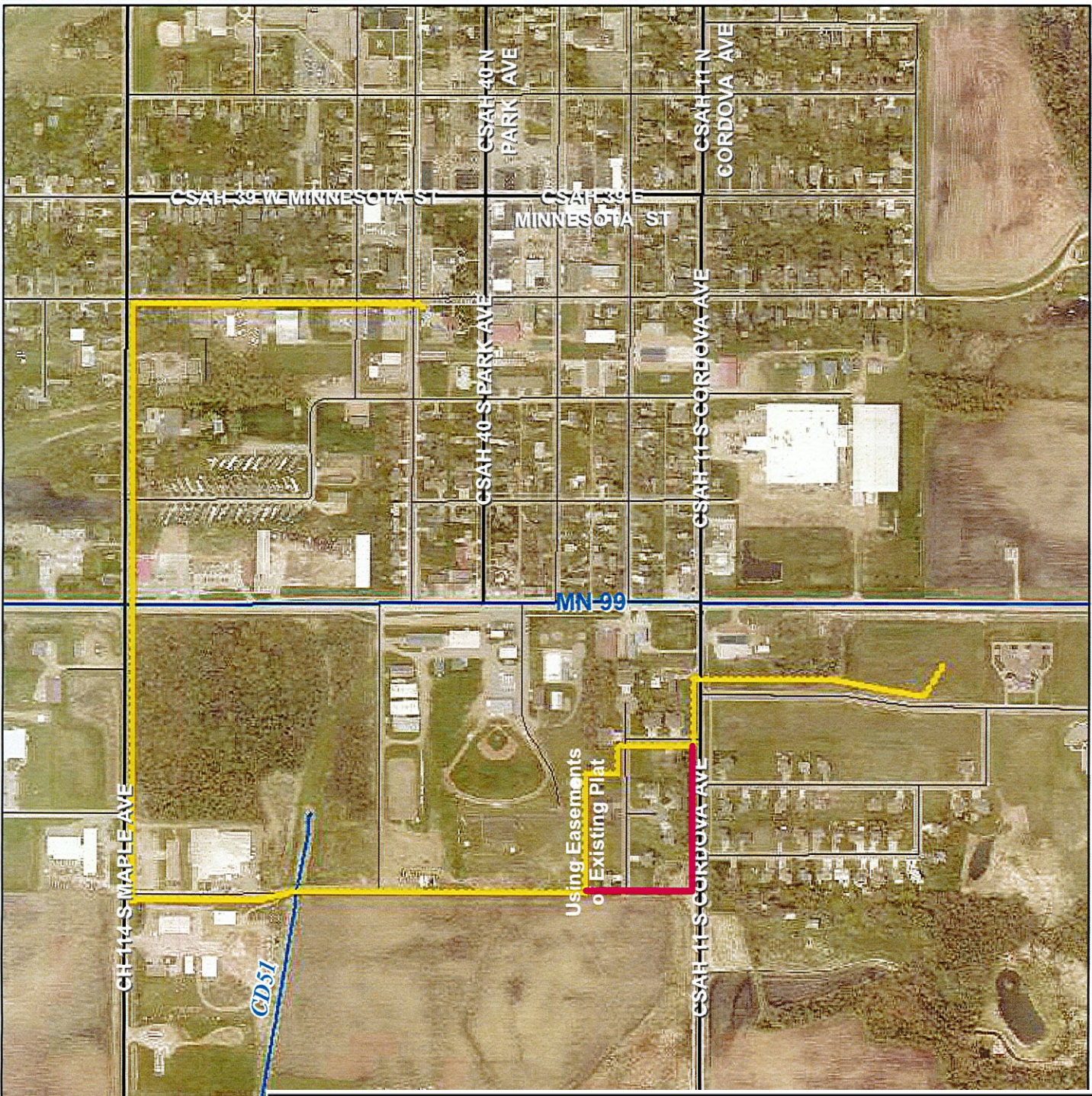
RDCODE

-  MN Highway
-  CSAH; County Road; Ramp
-  Municipal Street

County Ditch

Type

-  MAIN



- YELLOW** = Proposed Fiber Route.
- Using existing easements for Wood Edge Sub.
- PINK** = Alternate Fiber Route
- If granted easement O.L. B in Woods Edge Sub

Coordinate System: NAD 1983 HARN Adj MN Le Sueur Feet
 Projection: Lambert Conformal Conic
 Datum: NAD 1983 HARN Adj MN Le Sueur
 False Easting: 500,000.0000
 False Northing: 100,000.0000
 Central Meridian: -93.1333
 Standard Parallel 1: 44.3000
 Standard Parallel 2: 44.3667
 Latitude Of Origin: 44.1947
 Units: Foot US





Service Level Agreement for Customer xxxxx

- Jaguar or contract trained and qualified maintenance personnel will be available for dispatch twenty-four (24) hours a day, seven (7) days a week.
- Subject to delay caused by Force Majeure, Jaguar shall respond to any emergency unscheduled maintenance required for the customer fibers within two (2) hours after becoming aware of the need for same.
- Jaguar will use commercially reasonable efforts to complete any emergency unscheduled maintenance within four (4) hours after being made aware of the event.
- To meet above objective, it is acknowledged that the repairs so affected may be temporary in nature. In such event, promptly after completion of Emergency Unscheduled Maintenance, Jaguar will commence its planning for permanent repair, and thereafter promptly implement permanent repair within an appropriate time thereafter.
- In the event of a cut fiber, the objective of Jaguar’s maintenance personnel is restoring operating capability in as little time as possible; and, the Jaguar maintenance vehicles will be outfitted with the typically appropriate equipment for temporary splicing.
- **Speed Guarantee:** Customer contracted for 50/50 fiber internet. Speed will be measured by customer running a browser-based speed test from a single computer accessing the internet through the Jaguar-provided internet connection, testing from the URL speedtest.jagcom.net. If there are 3 consecutive results, run 1-2 minutes apart, of less than 90% of the subscribed speed, screen captures of those speed tests should be emailed to support@jagcom.net with a request to open a ticket on slow speeds. Jaguar technical support will confirm that the speed test server is functioning properly and will perform normal troubleshooting to isolate whether the limitations are from the Jaguar network or the Customer's network. For each day that there are any confirmed events of speed test results of less than 90% of the subscribed speed, a 10% credit can be requested by the customer, referencing the ticket number under which that event was reported.
- **Outage Credit:** Customer will be entitled to outage credits on a monthly basis, to be measured from the time an outage is reported or discovered until the problem is corrected, as follows

More Than (Hours) But Less Than (Hours)	Customer Credit of Monthly Charges
0 4	0%
4 6	25%
6 8	50%
8 10	75%
10 12+	100%

- **Right to Terminate:** Customer may terminate the Telecommunication Service Agreement without penalty if Jaguar’s service does not meet the Speed Guarantee herein for thirty (30) consecutive days, provided that Customer complied with the provisions herein for each of said thirty (30) days.

Customer xxxxx
 By: _____
 Name: _____
 Title: _____
 Date: _____

Jaguar Communications, Inc.
 By: _____
 Name: _____
 Title: _____
 Date: _____



**Telecommunications Proposal For
Le Sueur County
June 18, 2018**

Le Sueur County
88 South Park Avenue
Le Center, MN 56057
507-357-8101
jneisen@co.le-sueur.mn.us

Jaguar is pleased to submit the following proposal for telecommunication services to Le Sueur County. For reference, includes as an attachment is a KMZ map file showing the routes described and priced below:

Green routes on the KMZ are the paths to the towers for Public Safety
Yellow is the proposed route to provide a ring through the Justice Center, Courthouse, Old Jail, and Hwy Dept.

2 strands of dark fiber from Justice Center to Le Sueur Water Tower:

15 miles total		
3yr - \$ 525 MRC		\$ 10,000 NRC
5yr - \$ 375 MRC		\$ 10,000 NRC
10yr - \$ 325 MRC		\$ 10,000 NRC

2 strands of dark fiber from Justice Center to Wild Creek Tower:

4 miles total		
3yr - \$ 525 MRC		\$ 47,000 NRC
5yr - \$ 475 MRC		\$ 43,000 NRC
10yr - \$ 325 MRC		\$ 39,000 NRC

4 strands of dark fiber from Justice Center to Courthouse to Old Jail to Highway Building back to Justice Center:

3 miles total		
3yr - \$ 525 MRC		\$ 47,000 NRC
5yr - \$ 475 MRC		\$ 43,000 NRC
10yr - \$ 325 MRC		\$ 39,000 NRC

Notes:

Included in quoted price is all construction, splicing, testing, and ongoing maintenance and repair. Route and pricing for ring is proposed/budgetary pending final agreement of the full path. Proposed route for ring would require an easement from Le Sueur County to build fiber from W. Bradshaw St. to Hwy 99 along west

213 South Oak Avenue, Owatonna, MN 55060 | 507-214-1000 | 800-250-1517
www.jaguarcommunications.com