## AGENDA
1. Call Meeting to Order
2. Establish a Quorum
3. Adopt Agenda / Properly Noticed
4. Approve Minutes of the 10/28/2020 meeting
5. Public Comment
6. Old Business
   6.1 Door/Kewaunee Dispatch Study
   6.2 Door County Propagation Study
7. New Business
   7.1 FYI Sunnyslope Tower
   7.2 FYI Fiber Cut
   7.3 Fish Creek CIP
   7.4 WECB Renewal
   7.5 Strategic Plan
8. Review Vouchers, Claims and Bills – None
9. Matters to be Placed on a Future Agenda or Referred to a Committee, Official, or Employee
10. Next CATS Committee Meeting Date: To be determined
11. Set Per Diem Code
12. Adjourn

In light of the declared emergency and to mitigate the impact of COVID 19 this meeting will be conducted by teleconference or video conference. Members of the public may join the meeting remotely or in person in the Peninsula Room (C121) first floor government center. (Please note public in person has limited capacity and is on a first come first serve basis)

To attend the meeting via computer:
Go To: https://doorcounty.webex.com/doorcounty/onstage/g.php?MTID=e94e78d3ecfdac217694754a0ec2ada8f
Event Password: Feb16cats2021
To Connect via Phone:
Call: 1-408-418-9388
Access Code: 146 311 5035

Members of the Door County Board of Supervisors and/or its sub-units may be in attendance at this meeting to listen and gather information. Notice is hereby given that the above meeting may constitute a meeting of the Door County Board of Supervisors or one of its sub-units. However no official action will be taken except by the Communication Advisory Technical Sub-Committee.
AGENDA *AMENDED*

Call Meeting to Order
Chairman Alexis Heim Peter called the October 28th, 2020 meeting to order at 9:08AM

Establish a Quorum
Dan Kane, Alexis Heim Peter, Tim Dietman, Aaron Leclair, Howie Hathaway, Jason Baudhuin, Chris Hecht, Greg Diltz McCarty, Enigl were excused

Others Present
Ken Pabich, Len Koehnen

Adopt Agenda / Properly Noticed
Motion made by LeClair second by Hathaway. Motion carried by voice vote.

Approve Minutes of the 6/25/2020 meeting
Motion made by Hathaway second by Dietman. Motion carried by voice vote.

Public Comment
None

Old Business
Radio Fleet Reprograming
Hecht talked about the history about discussion around when to conduct the reprogramming. Discussion focused on if now was the right time to do it. Fire departments set aside funds in the past for the project. Cost would be roughly 40k to do the system. Baudhuin talked about issues in the south with paging channel. Baudhuin said to monitor and plan for the fall of 2021 for the work. Koehnen agreed this would be a good strategy. Group agreed to hold off on the total reprogramming with the fleet and focus on just the skip issues. Not enough of a benefit at this time to do a full reprogram.

Door/Kewaunee Dispatch Study
Pabich talked about how the project has moved to fiber connection study with Kewaunee County. Dispatch is no longer involved with the project. Koehnen says he believes the fiber connection is feasible with Kewaunee. Koehnen wants to meet with Kewaunee to finalize scope and ensure all expectations are met for the final report.

In light of the declared emergency and to mitigate the impact of COVID 19 this meeting will be conducted by teleconference or video conference. Members of the public may join the meeting remotely or in person in the Peninsula Room (C121) first floor government center. (Please note public in person has limited capacity and is on a first come first serve basis)

To attend the meeting via computer:
Go To: https://doorcounty.webex.com/doorcounty/onstage/g.php?MTID=ecf84df0fd8d740901dcfc9cb48cfca

Event Password: Oct28cats2020

To Connect via Phone:
Call: 1-408-418-9388

Access Code: 146 605 2455
New Business

Election of Vice Chair
Hecht nominated Dave Enigl for vice chair. Second by LeClair. Motion carried by voice vote.

Alarm Server Proposal
Baudhuin stated that all panic buttons and alarms for tower sites are now old and they need replacement for the server. Bay electronics would provide the hardware and would maintain the software and licensing. Heim peter stated she would like to see the official proposal to the committee. Baudhuin will update it and submit it to the County.

FYI Tower Batteries
Kane gave an update on the communication tower batteries. These were due to be replaced after the 2018 inspection. Bay Electronics will be installing them at the end of 2020 or start of 2021.

Door County Propagation Study
Koehnen showed an update on the progress of the study. Koehnen is looking for help on finding locations to study for the project. Pabich mentioned about a communication summit next year to bring partners into the same room to talk about this. The group agreed it would be a good idea.

Review Vouchers, Claims and Bills
None

Matters to be Placed on a Future Agenda or Referred to a Committee, Official, or Employee
Updates on the two outstanding studies. Timeline for communications for the 2020 decade.

Next CATS Committee Meeting Date
To be determined

Set Per Diem Code
958

Adjourn
Motion made by LeClair, second by Deitman and carried by voice vote to adjourn at 10:30AM.

NOTE: Minutes have not been approved by CATS Committee

Respectfully submitted by: Daniel Kane

Deviations from the order shown may occur
TABLE OF CONTENTS

REVISIONS SINCE LAST PUBLICATION ................................................................. 3
INTERACTIVE DOCUMENT .................................................................................. 3
EXECUTIVE SUMMARY ...................................................................................... 4
REPORT ............................................................................................................... 5
  Purpose of Project .......................................................................................... 5
  History of Project .......................................................................................... 5
  Background .................................................................................................. 5
  Study Methodology ....................................................................................... 7
  Searching for a Direct Kewaunee-Sturgeon Bay Interconnection .................. 13
BENEFITS OF INTERCONNECTION ................................................................. 17
  911-Centers .................................................................................................. 17
  Other Governmental Functions ..................................................................... 18
  Issues with interconnection .......................................................................... 18
  Grants and Funding ....................................................................................... 19
APPENDIX .......................................................................................................... 20

This report was prepared by me and that I am a duly licensed
Registered Professional Engineer in the states listed below:

Iowa: 13403
Minnesota: 9298
Wisconsin: E-21984
Specialty: Electrical: Communications, Control Systems and their Facilities

©2021: Leonard J. Koehnen, Door County and Kewaunee County, Wisconsin. All rights reserved. 9348
Jonathan Road Saint Paul, MN 55125 651-739-1614
REVISIONS SINCE LAST PUBLICATION

<table>
<thead>
<tr>
<th>DATE</th>
<th>CHANGE OR EVENT</th>
</tr>
</thead>
<tbody>
<tr>
<td>12-11-2020</td>
<td>Draft copy. Published and issued for comments.</td>
</tr>
<tr>
<td>1-10-2021</td>
<td>Published final version of this report. Changes include:</td>
</tr>
<tr>
<td></td>
<td>- Added Revisions since Last Publication page</td>
</tr>
<tr>
<td></td>
<td>- Added Interactive Document section.</td>
</tr>
<tr>
<td></td>
<td>- Minor corrections of NSight spelling and case format.</td>
</tr>
<tr>
<td></td>
<td>- Added some footnotes defining acronyms</td>
</tr>
<tr>
<td></td>
<td>- Page 16 added note as to color differential in fiber circuits.</td>
</tr>
</tbody>
</table>

INTERACTIVE DOCUMENT

In its Acrobat or PDF format, this document is designed to be interactive with the user in two ways:

1. If not turned on when the file is opened, open the bookmark from the VIEW menu. Click NAVIGATION PANELS and then BOOKMARKS. A one mouse click method will appear allowing the reader to jump from section to section, front or last pages. If you are viewing with a program other than Acrobat, the instructions may be slightly different.

2. Within the Executive Summary, where paragraphs are referenced, hover your mouse over the reference. The mouse pointer will turn into an index finger. Click to review the reference. Use the book mark to return to the executive summary.
EXECUTIVE SUMMARY

Note: On the PDF version of this report, hover your mouse pointer over the references below such as {See Figure X}. Click mouse to jump to that reference.

- There are 3 commercial providers of fiber optic cable on the Kewaunee courthouse square. [See Figure 5]
  - The closest and most economical is NSight.
    - Their cable runs in the boulevard on the west side of Juneau Street while the Kewaunee County fiber is buried in the east boulevard.
    - They are the owner of the fiber bundle in which Door County has a presence.
  - NSight provided a graduated use fee quotation that includes upfront or no upfront costs depending on the plan chosen. {See Table 8}
  - While it appears a 52 mile fiber connection between Kewaunee and Sturgeon Bay exists, NSight has no current interest in leasing a dark fiber circuit. {Figure 9}
- NSight’s does have a fiber circuit between Kewaunee and Luxemburg that can provide a connection to a future data center. {Figure 10}
- While the study of a 911-center merger was removed from the study, the COVID-19 epidemic has focused the need for 911-centers to back one another up and a reliable data inter-connection will facilitate the start of this.
- With such a data interconnection, a governance structure should be implemented.
- No current grants could be found to assist with this effort.
REPORT

Purpose of Project:

The purpose of the project is to study the potential of an Information-Services (I-S) connection between Door and Kewaunee County’s I-S systems. A high-speed high throughput connection that would allow for the sharing of services and a redundancy of services between the Counties.

History of Project

The project started a multi-faceted project that included the I-S interconnection study. It also included:

- Merger between the 911-Dispatch Center operations
- Sharing of software and computer services related to criminal justice and 911.

Mid-point in the study both were removed from the project leaving only the I-S interconnectivity study.

Background

Both Door and Kewaunee Counties have private single mode\(^1\) fiber optic cable services interconnecting key locations.

Door County partnered with the commercial provider NSight\(^2\) of Green Bay to secure dedicated single mode fiber strands in their commercial bundle. In addition, their project included the interconnection of all governmental, school, and radio facilities.

Kewaunee County has installed a single mode circuit between the Administration Building and the Court House. That circuit is shown in Figure 1.

Continued on the next page.

\(^1\) Single Mode: There are two modes of illuminating a fiber optic circuit. The cheapest, with the largest diameter cable, least throughput and with the shortest distance between re-amplification is multi-mode. Single mode is used for long haul high capacity communications.

\(^2\) NSight: Northeast Communications of Wisconsin, Inc., dba NSight. Subsidiary companies under NSight include Cellcom, NSight Telservices, and Glas. Reference: [https://www.nsight.com/](https://www.nsight.com/)
A goal of this project is to investigate or construct a connection between these isolated fiber optic systems.

Figure 1: Existing Kewaunee County Signal Mode Fiber Circuit
Study Methodology

The study started with documentation of the fiber routing and terminal connections. Important I-S locations were visited and hosted by the Counties’ I-S department heads. The routing of their fiber circuits were audited to understand and document their construction definition.

The Kewaunee fiber optic cable is a buried circuit between the properties of the County buildings and right-of-way of the City of Kewaunee streets. Within the road right-of-way, the cable is buried in the boulevard between the sidewalk and the curbing. At key locations the cable is accessible via a ground vault called a hand-hole. See Figure 2.

Door County’s fiber is part of a large bundle of NSight’s fibers, 96 pairs or more, buried and mounted on utility poles throughout the County. NSight operates their fiber system under the business name of NET-LEC. The varied mounting is due to the unavailability of enough earth\(^3\) to bury the cable and also probably due to economic and permitting reasons. See Figures 3 and 4 for typical utility pole and in-ground installations.

Continued on the next page.
The City of Kewaunee was thoroughly investigated for fiber optic circuits provided by third parties. The City of Kewaunee is served by three commercial providers:

Continued on the next page.
AT&T: {Colored as Blue}

AT&T is the local wireline telephone provider having purchased its predecessors Southwestern Bell’s and Ameritech’s facilities. They have a presence on the Courthouse square with the main central office for wired telephone service in Kewaunee across the street from the Courthouse. AT&T provides high speed computer networking to Time, the Wisconsin criminal justice network.

AT&T has presence around town but their circuits are not marked well enough to provide a clear definition of their system.

SPECTRACOM: {Colored as Black}

Spectracom is the data arm of the local cable TV provider. They have a fiber optic cable presence on poles on the northwest corner of the Courthouse square at Juneau and Kilbourn.

NSIGHT: {Colored as Red}

NSight has service from their hub in Green Bay to service their offices and cell site in Kewaunee. Their circuit runs down Juneau Street opposite that of the County. The cell tower is on Kilbourn just off the Courthouse square.

OLD KEWAUNEE ANNEX CIRCUIT: {Colored as Dashed Green}

While not commercial, the now abandoned multimode fiber that connected the former Annex with the Courthouse was investigated. Since the Annex is now a private residence and the cable is incompatible with the long distance single mode circuits, it was dropped from additional consideration.

Figure 5 graphically summarizes the existing presence of fiber optic cables on the Kewaunee Courthouse square. The solid green is Kewaunee’s 24 pair single mode circuit interconnecting their Administration Building and the Courthouse. The dotted green circuit is an abandoned multi-mode circuit between the old Annex and the Courthouse.
Figure 5: Fiber Optic Circuits on the Kewaunee Courthouse Square
While there are three providers that could provide Door-Kewaunee fiber interconnectivity, the most logical and probably the most economical one is NSight’s (Red) circuit. It already has the connection to Door County’s key locations and it is in the closest proximity to Kewaunee’s existing (solid Green) fiber optic circuit at the corners of Juneau and Vliet Streets.

Below are interconnection possibilities shown as a dotted red lines for an NSight Door-Kewaunee circuit:

- **CANDIDATE 1**: Cross street interconnection at Juneau and Vliet Streets. This is the shortest and appears the most practical.

- **CANDIDATE 2**: A connection from their hand-hole at the southwest corner of Juneau and Kilbourn into the same entrance as AT&T uses through the jail utility tunnel into the Courthouse. From the tunnel, the circuit routes to the Courthouse I-S room.
  - This is not recommended because with the planned construction of a new jail and public safety complex, this routing would impact Kewaunee County’s options on a disposition of the present jail building.

- **CANDIDATE 3**: A connection from their fiber presence at the northwest corner of Center and Wisconsin, route south on Wisconsin to the Administration building.
  - While viable, the shorter distance makes the connection at Juneau and Vliet the most appealing.
Candidate 1 from above was discussed with NSight. They responded with an email. The original in the Communications folder on the USB drive is summarized below.

The routing of the data is assumed via NSight’s hub at UW Green Bay and forwarded on their fiber circuit to Door County data frame locations in the Justice and Government Centers. It is also assumed this is a shared, not a dark fiber\textsuperscript{4} circuit.

<table>
<thead>
<tr>
<th>TABLE 8: NSIGHT QUOTATION FOR INTERCONNECTION-DOOR-KEWAUNEE COUNTIES</th>
</tr>
</thead>
<tbody>
<tr>
<td>MONTHS</td>
</tr>
<tr>
<td></td>
</tr>
<tr>
<td>36</td>
</tr>
<tr>
<td>60</td>
</tr>
</tbody>
</table>

NRC: Nonrecurring charge. Assumed to be installation and onetime equipment purchases.

REFERENCE: See 2020\_12\_08\_NSight\_Responses Email Rick Vincent to Koehnen See project USB drive for original of email in Communications directory

\textsuperscript{4} Dark Fiber: An industry term where the customer has sole and exclusive custody of the fiber pair.
Searching for a Direct Kewaunee-Sturgeon Bay Interconnection

The above represents a first step approach to an inter-county I-S system. It permits a starting and intermediate data transfer rate between I-S centers. At the request of the I-S directors, the project was expanded to two additional objectives:

1. Is there a connection between the I-S centers in whole or part that can provide a dark fiber circuit that can be activated through agreement or future construction along with NSight?
2. Kewaunee has a long term desire to create a back-up I-S center at their facility in Luxemburg. Is there fiber service into Luxemburg? Construction Options?

With the two objectives above in mind, the complete NSight fiber system in southern Door\(^5\) and northern Kewaunee\(^6\) counties was investigated, and GIS documented.

This effort exposed a routing shown in Figure 9 which is about 52 cable miles. What is not known is the viability of this circuit or whether the circuit is partitioned to focus part south towards the Wisconsin 29 trunk circuit and part north along the Wisconsin 57 trunk circuit. In other words—not connected. Reference Figure 11 on page 15.

Questions regarding this were brought to NSight.

1. Is the routing discovered an accurate representation of their system?
2. Is the circuit viable for a direct dark fiber connection between Kewaunee and Sturgeon Bay data centers via a Luxemburg data center?

---

\(^5\) Southern Door: South of the channel.
\(^6\) Northern Kewaunee: North of WI Highway 29.
3. In the far future as the leasing of service per Table 8 is at capacity, would NSight consider the long term lease of a dark fiber pair on this circuit?

NSight’s response is in the 2020_12_08_NSight_Responses email in the Communications folder on the USB drive. In summary:

**NSight does not lease dark fiber. They only provide services but they would be willing to swap if the Counties had a circuit that is beneficial to**

This policy may change in the future or the counties may acquire fiber capacity that is appealing to NSight to make this dark fiber connection circuit viable.

The discovered routing between Kewaunee and Luxemburg is very viable to meet Kewaunee’s desires. Figure 10, below, is a magnified routing of the circuit shown in Figure 9 in the city of Luxemburg. The fiber exists in a hand hole on the northeast corner of 3rd and Elm Streets—across the street from County offices.

![Figure 10: NSight Fiber Routing within Luxemburg](image)
So, in summary to the I-S directors’ additional questions:

1. A dark fiber interconnection between the Kewaunee I-S and Door County I-S facilities while it may physically exist is not rentable as dark fiber at this time. In the future as the Counties may have viable circuit capacity to swap with NSight or the Counties may have some other in-kind offering that may interest NSight, such an arrangement may be possible.

2. There is a fiber connection from Kewaunee to Luxemburg. Use of that circuit would be by a separate or supplemental leasing arrangement with NSight.

**RECOMMENDATION:** If Kewaunee foresees a Luxemburg connection in the next five years it may be beneficial to add additional capacity/connections between Kewaunee’s and the NSight fiber system to accommodate the addition.

Figure 11, shows the discovered topology of the NSight fiber optic cable of the system in southern Door and northern Kewaunee Counties. Note, this is not NSight’s official map but developed by field discovery. It does not include fiber installations outside of the area of interest.

*Continued on the next page.*
Note: The 52 Mile circuit Kewaunee-Luxemburg-Sturgeon Bay is shown in red to note it is the most direct interconnection available from NSight.

Continued on the next page.
BENEFITS OF INTERCONNECTION

911-Centers:

This project started with a component of studying the merger of both County’s 911-centers which was later dropped. One of the main reasons for removing that component from the project was the counties were too far apart economically at that time to merge.

However, 911 centers typically have a life span of 100,000 hours of continuous use. This translates to 11.4 years—twelve years is the rule of thumb used in the industry. This doesn’t mean all equipment will die at 12 years. After 100,000 hours of use the following events usually signal the center is near end-of-life;

- Equipment is baked-out and stressed from continuous use. Maintenance costs rise.
- The manufacturer and/or the software designer no longer supports the product.
- The user’s needs change such and the product no longer is suitable for purpose.
- Regulatory agency requirements change and the system cannot support those changes.

Door County upgraded its 911-center technology in 2017. Kewaunee is in the process of doing the same now. So with technology life cycles in mind, it would be prudent to revisit a full merger later in the 2020 decade.

However, there are partial steps that can be taken in the interim that would be beneficial to both counties.

1. CROSS SYSTEM BACK UP: The COVID-19 epidemic has nearly devastated some 911-center staffing to the point of ceasing to operate. While a 911 center can forward its 911 calls to a neighbor very easy, the balance of the center’s operation is rarely fully transferred to the neighbor. What is missing is the neighbor having access to the 7-digit phone system, alarms, radio system, mapping and the CAD/Records\(^7\) system of the neighbor. Thus a 911 fall back system still requires the agency with issues to staff the center they had to close because a lack of staffing!

RECOMMENDATIONS: With high-speed digital interconnectivity the counties should begin to coordinate the purchase and implementation of compatible subsystems to the 911 center operation. These are:

- Ability to fully operate each other’s radio system.

\(^7\) CAD: Computer Aided Dispatch System
Ability to transfer 7-digit phone calls and alarms\(^8\) to one another.
Access to each other’s CAD/Record system. Both Counties already have the same system.
Importing the other County’s GIS mapping system into their system.
Quarterly testing and cross training.

2. COORDINATING PURCHASES. Purchasing equipment and systems together. A reliable high speed digital interconnection may allow one entity to host the equipment/software used by both.

These partial steps, if taken, will make the study and decision making easier in the late 2020 decade to a full merger or to remain independent.

Other Governmental Functions:

There are other governmental functions the Administrators are more aware of that are duplicated by each other due to common state and federal mandates. Similar steps can be taken to 911-Center operation redundancy listed above.

Issues with interconnection:

With the benefits of a reliable high speed interconnection come also pitfalls that must be addressed.

1. STAFFING-LINES OF DEMARCATION:
Both I-S departments are very busy. So, as part of creating this endeavor should also be governance definitions. With the present staffing, neither county’s I-S departments can fully absorb the work of the other. This is especially critical if one county hosts a function shared by both counties.

2. FAILURE MITIGATION: Fiber optic systems can fail. Fiber installed on utility poles is subject to storm damage. That which is underground is susceptible to errant digging or rodent damage. A long term relationship with the circuit owner will assure the restoration of your services will occur along with theirs. The financial relationship with the provider should include One-Call\(^9\) and restoration services.

---

\(^8\) Alarms: Most alarms are routed from the property to a 3rd party who calls the 911- center. There are however some alarms that remain local. They are: Judicial Security, high value county owned facilities (radio towers), and jail.
\(^9\) One-Call: Also called Digger’s Hot Line. Generally 811 in most states.
Grants and Funding

There is a high energy focus by the federal and state governments to bringing broadband into underserved communities and rural America. There is not, however, specific grants at this time that could be found to improve inter-governmental efficiencies and provide continuity of governmental services. These were available with the Department of Agriculture BTOP\(^\text{10}\) grants earlier in the 2010 decade. With governments though, focus can change with the calendar.

The fact that a quality fiber optic circuit can reasonably be attained between the two counties data centers through a leasing arrangement with NSight, blunts a request for a construction grant. However, NSight is open to discuss a trade of in-kind fiber. A future grant request partnering with NSight to provide service into an underserved area may be a negotiating point to make available the dark fiber circuit between Kewaunee and Sturgeon Bay per Figure 9.

<table>
<thead>
<tr>
<th>Figure 12: Bibliography of Internet Resources on Grants</th>
</tr>
</thead>
<tbody>
<tr>
<td>Wisconsin PSC</td>
</tr>
</tbody>
</table>

\textit{Continued on the next page.}

\(^{10}\text{BTOP: Broadband Technology Opportunities Program a federal grant funded through the National Telecommunications Information Administration (NTIA).}\)
USB or thumb drives are supplied with this report. They include the following files for your reference and to expand on this project. The files are:

<table>
<thead>
<tr>
<th>DIRECTORY</th>
<th>CONTENTS</th>
</tr>
</thead>
<tbody>
<tr>
<td>_Reports</td>
<td>Copies of this and the interim report in PDF format.</td>
</tr>
<tr>
<td></td>
<td>Copy of the Power Point presentation and handouts.</td>
</tr>
<tr>
<td>Communications</td>
<td>Significant communications received during this project in PDF format.</td>
</tr>
<tr>
<td>NSight_Raw_Data</td>
<td>Google Earth files showing NSight locations.</td>
</tr>
<tr>
<td></td>
<td>CSV files for:</td>
</tr>
<tr>
<td></td>
<td>1. Key NSight markers and utility pole egress points</td>
</tr>
<tr>
<td></td>
<td>2. Radio Tower Locations</td>
</tr>
<tr>
<td>QGIS(^{11}) _FILE</td>
<td>1. The open architecture GIS file used in this report</td>
</tr>
<tr>
<td></td>
<td>2. Shape file families used in this GIS file. Also included Google Earth</td>
</tr>
<tr>
<td></td>
<td>files for some layers.</td>
</tr>
</tbody>
</table>

---

\(^{11}\) QGIS: QGIS is an open architecture free-ware GIS program that provides many of the functions of ARCGIS, the most popular GIS system used by business and government.

---

End of the Report

---

Door-Kewaunee Fiber Optic Interconnectivity Study-January 10, 2021 FINAL
## Table 1

**Cost Summary by Funding Source and Year**

**FY 2021 - REVISED 11-5-2020**

<table>
<thead>
<tr>
<th>Project No.</th>
<th>Project Name</th>
<th>2021 Project Name</th>
<th>Eligible for Long Term Financing</th>
<th>Eligible for Short Term Financing</th>
<th>Federal</th>
<th>State</th>
<th>Levy</th>
<th>Other*</th>
<th>TOTA</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Airport</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>1-53-01</td>
<td>North/South Runway Reconstruction (&quot;Other&quot; is CIP Carryover from prior years)</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>1-53-02</td>
<td>Apron area north of and including Taxiway G</td>
<td></td>
<td>3,515,000</td>
<td></td>
<td>25,000</td>
<td>200,000</td>
<td></td>
<td></td>
<td>3,740,000</td>
</tr>
<tr>
<td><strong>Highway</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>1-33-01</td>
<td>CTH C (Rileys Bay Road - Pickeral Road)</td>
<td></td>
<td>3,515,000</td>
<td></td>
<td>50,000</td>
<td>200,000</td>
<td></td>
<td></td>
<td>3,765,000</td>
</tr>
<tr>
<td>1-33-02</td>
<td>CTH J (Mill Road - CTH O)</td>
<td></td>
<td></td>
<td></td>
<td>784,890</td>
<td></td>
<td></td>
<td></td>
<td>784,890</td>
</tr>
<tr>
<td>1-33-03</td>
<td>CTH A (CTH E - CTH V)</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>1-33-04</td>
<td>CTH C (CTH DK - E Gardner Road)</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>1-33-05</td>
<td>CTH Y (STH57 - CTH DK)</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>1-33-06</td>
<td>CTH Q (Sunset Drive - North Bay Dr.-N. Int.)</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>1-33-07</td>
<td>CTH N (Ledge Road - CTH K)</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>1-33-08</td>
<td>CTH N (Four Corners Road - CTH C)</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Facilities and Parks</strong></td>
<td></td>
<td></td>
<td>2,631,691</td>
<td>450,100</td>
<td>3,676,670</td>
<td></td>
<td></td>
<td></td>
<td>6,758,461</td>
</tr>
<tr>
<td>1-37-01</td>
<td>John Miles Park - Entrance Gate, Signs and Ticket Booth (&quot;Other&quot; is unused C.I.P. funding from prior year)</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>1-37-03</td>
<td>Government Center Elevator Replacement</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>1-37-04</td>
<td>Justice Center Booster Pump Replacement</td>
<td></td>
<td></td>
<td></td>
<td>50,000</td>
<td>120,000</td>
<td></td>
<td></td>
<td>120,000</td>
</tr>
<tr>
<td><strong>Emergency Services</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>1-29-01</td>
<td>Washington Island ES Building (&quot;Other&quot; is from EMS Wash Is Building Reserve)</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>1-29-02</td>
<td>Washington Island ES Building (&quot;Other&quot; is from EMS Wash Is Building Reserve-$785,000; Comm Central Station-$335,738; Workers Comp Fund-$600,000)</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

"Other funding could be Unassigned Fund Balance, Carryovers from Prior Years, DK funding, C.I.P. Excess Funds, City Share, County Roads & Bridges Fund, Donations. (see table 8)
<table>
<thead>
<tr>
<th>Project No.</th>
<th>Project Name</th>
<th>Eligible for Long Term Financing</th>
<th>Eligible for Short Term Financing</th>
<th>Federal</th>
<th>State</th>
<th>Levy</th>
<th>Other</th>
<th>TOTAL</th>
</tr>
</thead>
<tbody>
<tr>
<td>1-15-01</td>
<td>ROD Media Conversion (&quot;Other&quot; is from the LIO Reserve)</td>
<td>-</td>
<td>-</td>
<td>150,264</td>
<td>50,000</td>
<td>200,264</td>
<td></td>
<td></td>
</tr>
<tr>
<td>1-28-04</td>
<td>Body cameras - Recommend deferral to 2022.</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>161,567</td>
<td>161,567</td>
</tr>
<tr>
<td>1-69-01</td>
<td>LaSalle Park Communication Tower</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>465,000</td>
<td>465,000</td>
<td></td>
</tr>
<tr>
<td>1-69-01</td>
<td>Communication Tower (Fish Creek)</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>465,000</td>
<td>465,000</td>
<td></td>
<td></td>
</tr>
<tr>
<td>1-13-04</td>
<td>County Board/Chambers Room Audio/Video Upgrade - to include ADA Compliant (&quot;Other&quot; is CIP Carrying over from prior year)</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>100,000</td>
<td>154,000</td>
<td>254,000</td>
</tr>
<tr>
<td>1-48-01</td>
<td>A/V Automation - Vanguard</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>60,000</td>
<td>60,000</td>
<td></td>
</tr>
<tr>
<td>1-06-01</td>
<td>Housing of Sexually Violent Person (Section 980) (&quot;Other is funds from Unassigned Fund Balance)</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>150,000</td>
<td>150,000</td>
<td></td>
</tr>
</tbody>
</table>

**TOTAL - 2021 C.I.P.**

| expenditure | 6,146,691 | 450,100 | 4,551,196 | 2,240,738 | 13,388,725 |

2020 Adopted C.I.P.

| expenditure | - | - | 6,146,691 | 315,100 | (54,480) | 57,038 | 6,816,376 |

2021 Over (Under) 2020 Adopted

% Increase/Decrease 2021 over 2020

- 0% | 0% | 100% | 233% | -1% | 3% | 104%
COMMUNICATIONS SITE LEASE

1) This Lease entered into by and between the Wisconsin Educational Communications Board (WECB) hereinafter referred to as the Lessor and the County of Door, Wisconsin, and successors hereinafter referred to as Lessee. This document replaces any other lease or agreement between Lessor and Lessee.

2) For and in consideration of the mutual covenants hereinafter set forth, the Lessor hereby leases to the Lessee the following described property fixtures and space for the purpose of installing, maintaining and operating a two-way communications system.
   a) Space on the Lessor's Sister Bay tower (herein referred to as Tower) coordinates: 45-14-19, 87-05-27, located at 11652 Old Stage Rd., Sister Bay, WI.
   b) All equipment to be installed needs approval by Lessor before construction.
   c) The right to use common areas for the purposes of installation, removal, servicing, repair or routine maintenance of the Lessee's equipment.

3) The original term of this Lease shall be one year commencing upon full execution of this Lease. The lease shall be renewed for successive one year terms if the Lessee notifies the Lessor its intent to renew this lease in writing 90 days in advance of the anniversary date of the lease.

4) Lessor shall permit Lessee to attach the following to the Tower and install in the building:
   a) (SEE ATTACHMENT A)

5) Lessee shall have the right to have the above-specified associated equipment on the tower and in the building.
   a) If a tower structural study is required to determine the proper location and additional structural strengthening for the additional appurtenances the Lessee shall be responsible for any and all costs of the study.
   b) The costs involved in any structural study is non-refundable and will not be applied to any lease payment due Lessor.

6) Lessee shall have the right at any time following the full execution of this Lease and advanced notification of site supervisor to enter upon the Property for the purpose of making appropriate engineering surveys, inspections, other reasonably necessary tests and constructing the Lessee Facilities.

7) Lessor shall be responsible for all matters pertaining to site management and shall allocate tower space and recommend practices to minimize electrical interference and to promote safety, economy, the protection of each party's rights and the neat and orderly maintenance of the premises.
8) Lessee shall be responsible to correct interference or other problems affecting previously installed and operating equipment or operations as a result of Lessee's or designated Lessee's installation. If interference of Lessor's equipment cannot be terminated within five working days the Lessee shall terminate those operations causing the interference.

9) Lessee shall be responsible for all necessary building/zoning permits and licenses. Lessee shall provide Lessor with copies of these permits and FCC authorizations/licenses prior to any equipment installation.

10) Lessee agrees that all of its equipment within building and attachments upon the Tower will be made and maintained in a proper safe and workmanlike manner so as not to interfere with the equipment and attachments of the existing parties and so as not to endanger life or property.
   a) All modifications, equipment and attachments upon the Tower are to be made in strict adherence with the findings of the Tower's structural study.
   b) All Tower structural modifications made to strengthen tower will remain property of Lessor should Lessee decide to vacate the Tower site.

11) Lessee agrees not to make any use of the Tower and grounds for purposes other than are customarily employed in the conduct of the described or noted radio communications and not to authorize any others to use the premises whatsoever except that consistent with all other provisions of this Lease. Lessor will authorize Lessee's employees or agents including necessary service personnel to enter the premises only for the purpose of installing or maintaining Lessee's radio station equipment.

12) Seventy-two (72) hours advance notice shall be given to the Lessor before any non-emergency Tower work or equipment maintenance is to be done. Emergency work can be done after notification to Lessor's emergency phone number that emergency Tower or equipment work is to be performed. The site has remote alarms. No routine work shall be carried out on the Tower or within the building without Lessor's prior approval. No routine work shall be carried out on the Tower without the presence of Lessor's supervisor. It is imperative that notification is given to Lessor's site supervisor and confirmation is obtained. A message on a phone answerer does not constitute "notification." Outside contractors with whom the Lessee engages for work on the Tower or in the building shall provide Lessor with evidence of at least $2 million in liability insurance and evidence of workmans' compensation insurance prior to commencement of work. Certificate of insurance shall be on file with Lessor before any Tower work is to be done. A key will be provided to Lessee. Lessee will also be responsible for supplying emergency staff phone numbers. Lessor routine phone number: 920-336-3541. Lessor emergency phone number: 608-264-9721.

13) Lessor representation is required on-site during initial installation on tower and during all subsequent maintenance of Lessee's equipment on the Tower, or any major equipment change within the building. Lessee agrees to reimburse Lessor at the Lessor's published
rate for Technical Services provided to school systems and the non-profit sector ($50/hr as of 8/15/05).

14) Lessor shall not be liable for any damage to property or for any injury to a person caused by the acts of God or by the conditions created by Lessee's employees, officers or agents. Lessee indemnifies and saves harmless Lessor from damages and costs arising from acts of the Lessee or its agents during the term of this Lease.

15) Operation and maintenance of the Lessee's system shall be performed exclusively by the Lessee or persons designated by the Lessee and shall not interfere with the access or operation of Lessor's equipment and property.

16) During the term of this Lease the Lessor shall:
   a) use its best efforts to keep its Tower and building in safe condition;
   b) maintain its Tower so as to comply with existing rules and regulations imposed by any governmental authority having jurisdiction over its operation; and
   c) make any repairs and modifications, which the parties deem necessary to maintain the Lessor's Tower and building in good condition. The expenses incurred as a result of this provision will be the responsibility of the Lessor unless they are occasioned by:
      i. the negligence of the Lessee;
      ii. a defect or malfunction in Lessee's system or equipment;
      iii. a safety hazard or violation of any applicable rule, regulation order or standard caused by Lessee's system or equipment; or
      iv. changes or improvements requested by Lessee.

17) If the Tower with or without fault of the Lessee by any cause be totally or partially destroyed or damaged so as to cause total or partial inability of the Lessee to carry out his activities on the Tower then the Lessee after 30 days from the date of event causing damage or destruction may give written notice of termination of this Lease Agreement. Lessee shall be entitled to a refund of all rent paid in advance and applicable to any period beyond the effective termination date.

18) Within 60 days following the termination date of this Lease the Lessee shall remove any and all improvements rendered by the Lessee to the subject property. Any improvements remaining after this period shall become the property of the Lessor.

19) Lessee agrees to pay Lessor the sum of $100.00 per month in an annual payment of $1,200.00 in advance upon execution of this document. In the second year of this document the lease rate will increase to $200 per month. In succeeding years on the anniversary of this document, the previous year's lease fee plus an escalator of 5% of that fee will be paid by the Lessee to the Lessor. An additional amount of 1-1/2% per month or any portion thereof will be due for late payments. Address for payments shall be:
20) Electric power usage will be evaluated on an annual basis and reflected in the lease rate.

21) This lease is not assignable to any other succeeding organization without the written permission of the Lessor.

22) Lessee is not permitted to sublease any portion of the Tower. Notwithstanding anything to the contrary contained in this Lease, Lessee may assign, mortgage, pledge, hypothecate or otherwise transfer without consent its interest in this Lease to any financing entity, or agent on behalf of any financing entity to whom Lessee (i) has obligations for borrowed money or in respect of guaranties thereof, (ii) has obligations evidenced by bonds, debentures, notes or similar instruments, or (iii) has obligations under or with respect to letters of credit, bankers acceptances and similar facilities or in respect of guaranties thereof.

23) Waiver of Lessor’s Lien.
   a. Lessor waives any lien rights it may have concerning the Lessee Facilities which are deemed Lessee’s personal property and not fixtures, and Lessee has the right to remove the same at any time without Lessor’s consent, subject to the provisions of this lease.
   b. Lessor acknowledges that Lessee may enter into a financing arrangement including promissory notes and financial and security agreements for the financing of the Lessee Facilities (the “Collateral”) with a third party financing entity (and may in the future enter into additional financing arrangements with other financing entities). In connection therewith, Lessor (i) consents to the installation of the Collateral; (ii) disclaims any interest in the Collateral, as fixtures or otherwise; and (iii) agrees that the Collateral shall be exempt from execution, foreclosure, sale, levy, attachment, or distress for any Rent due or to become due and that such Collateral may be removed at any time without recourse to legal proceedings, subject to the provisions of this lease.

24) Lessee agrees that it will not use, generate, store or dispose of any Hazardous Material on, under, about or within the Land in violation of any law or regulation. Lessor represents, warrants and agrees (1) that neither Lessor nor, to Lessor’s knowledge, any third party has used, generated, stored or disposed of, or permitted the use, generation, storage or disposal of, any Hazardous Material on, under, about or within the Land in violation of any law or regulation, and (2) the Lessor will not, and will not permit any third party to use, generate, store or dispose of any Hazardous Material on, under, about or within the Land in violation of any law or regulation. Lessor and Lessee each agree to defend, indemnify and hold harmless the other and the other’s partners, affiliates, agents and employees against any and all losses, liabilities, claims and/or costs (including reasonable
attorney's fees and costs) arising from any breach of any representation, warranty or agreement contained in this paragraph. As used in this paragraph, "Hazardous Material" shall mean petroleum or any petroleum product, asbestos, any substance known by the state in which the Land is located to cause cancer and/or reproductive toxicity, and/or any substance, chemical or waste that is identified as hazardous, toxic or dangerous in any applicable federal, state or local law or regulation. This paragraph shall survive the termination of this Lease.

25) The Lessee and Lessor may amend this lease at any time by mutual agreement.

LESSOR:
WISCONSIN EDUCATIONAL COMMUNICATIONS BOARD

By: (Signature)
Name: Wendy Wink
Date: 8/15/06

LESSEE:
County of Door, Wisconsin

By: (Signature)
Name: Michael J. Serpe
Title: County Administrator
ATTACHMENT A

LESSEE EQUIPMENT AT TOWER SITE

In the building:

Mastr III Repeater-Paging
Mastr III Repeater-Sheriff
Mastr III Repeater-EMS
Mastr III Repeater-Fire
Mastr III Repeater Med.
Ericsson Mobile Alarm Radio
Mastr III Dual Receiver-EMS
Mastr III Dual Receiver-Sheriff
Motorola Base Station-Washington Island Page
Microwave Data Systems 960D Microwave System
TXRX transmitter, combiner and receiver multi-coupler located in building.

Antenna Systems:

17' level single loop VHF antenna for Alarm radio 1/2" cable
18' level single loop VHF antenna for WI Page 1/2" cable
225' UHF antenna DB640-C for Med channel 7/8" cable
380' VHF Receive antenna DB616AB with 7/8" cable
280' VHF Transmit antenna DB616AB with 7/8" cable
150' Voted Receiver Antenna SRL310C-2HD into line coupler with 1/2" cable
150' SRL-460V microwave Grid dish into line coupler with 1/2" cable
Line coupler at 148' level with 7/8" line.