Grant County Wisconsin

Public Safety
Communications Upgrade
December 21, 2021



Multi-Phase Communications Plan

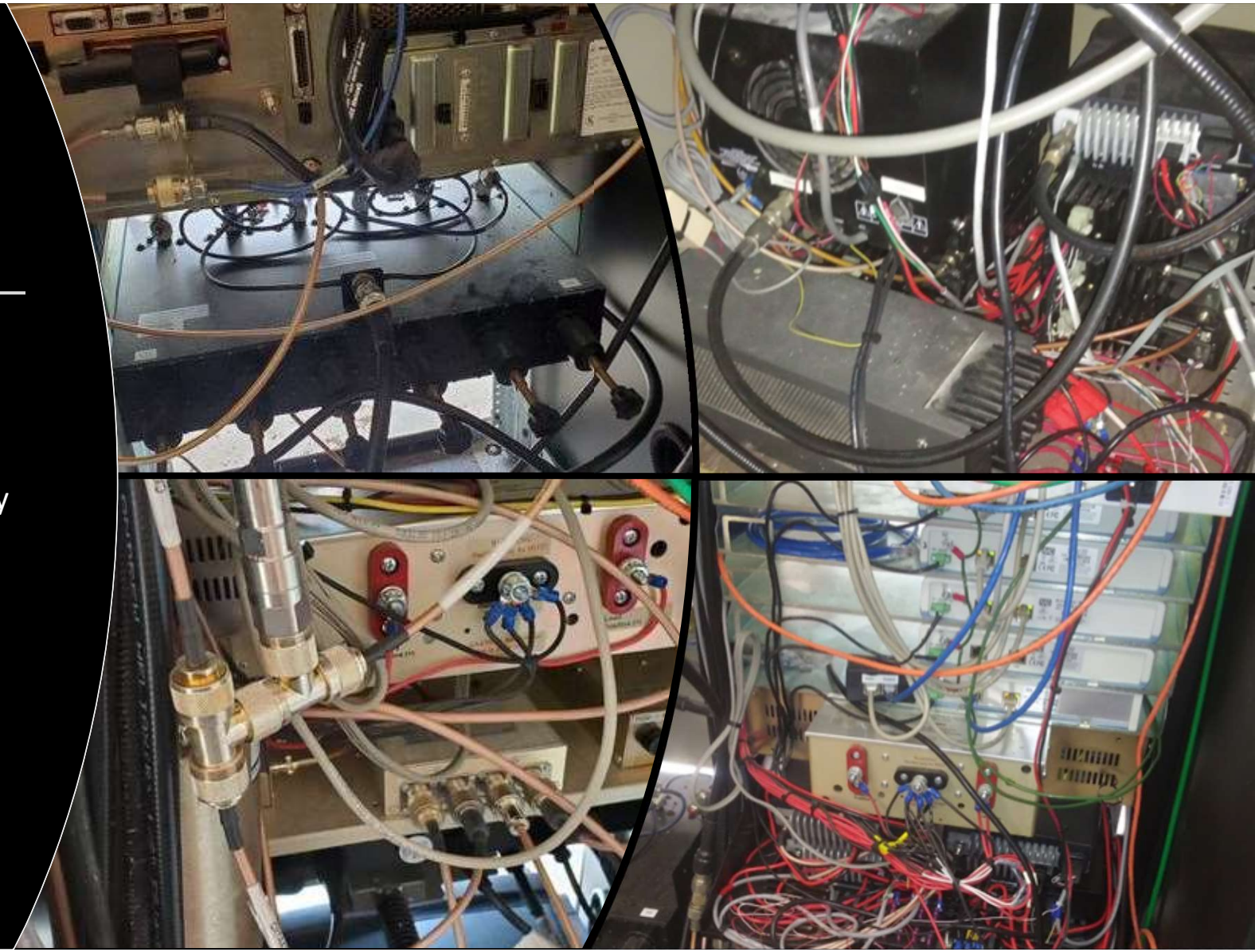
1. Phase 1 – Consoles, New Jail and Maintenance Radios - COMPLETED
2. Phase 2 – Lancaster Tower - COMPLETED
3. **Phase 3 –**
   A. **5 Voice Channels**
   B. **Fire Paging**
   C. **Sheriff Radios**

RACOM critical communications

Current Issues:

- Coverage
- Unreliable
- No Parts
- Inadequate Redundancy
- No Manufacturer Support

Safety!



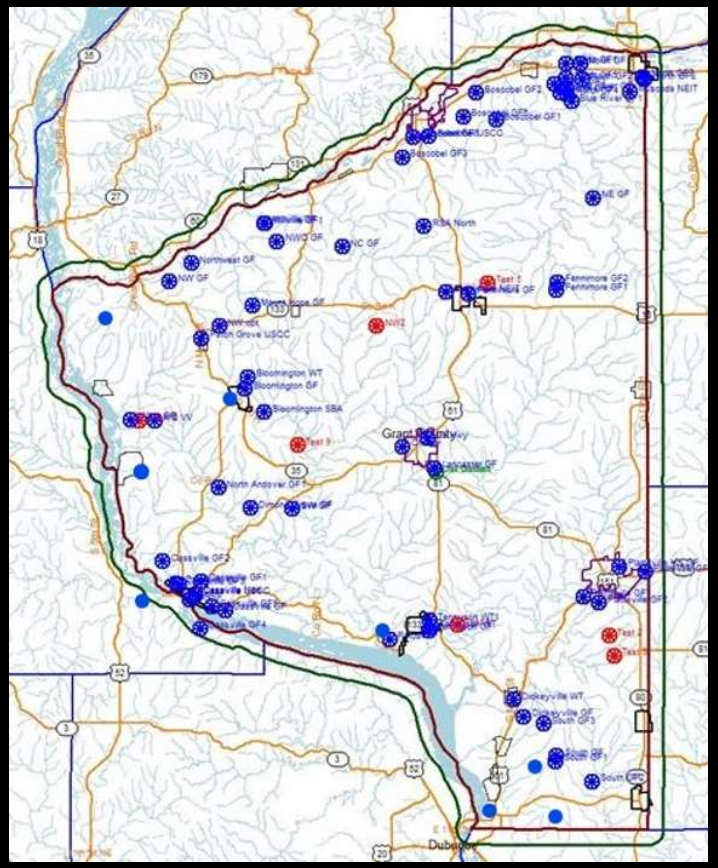
Phase 3 – Radio Design

Different combinations of
- Locations
- Antenna System Designs
- Simulcast Timing

Over 80 tower locations evaluated
Over 1,930 design changes/adjustments

RESULT:

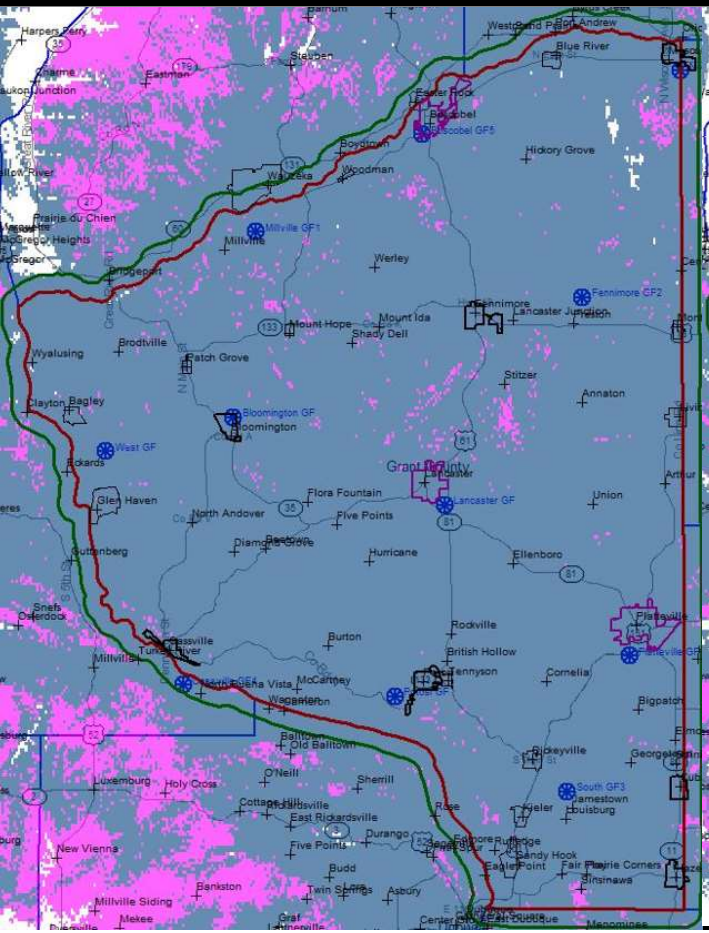
OPTIMIZED FOR MAXIMUM COVERAGE/SAFETY, LOWEST COST AND FIBER INTERCONNECT.



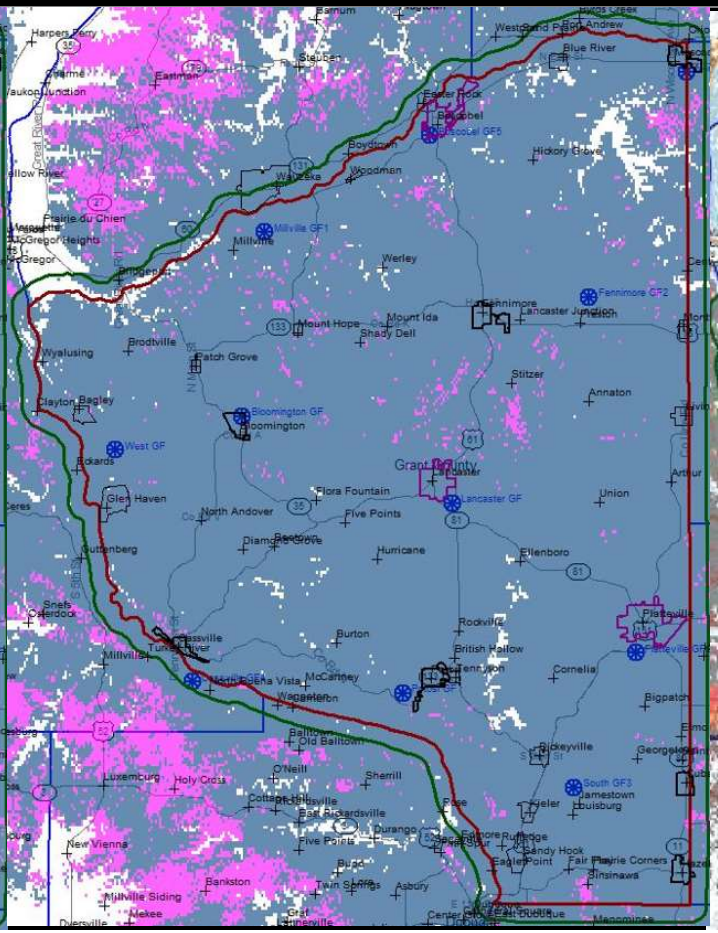
RACOM critical communications

Phase 3 – Radio Coverage

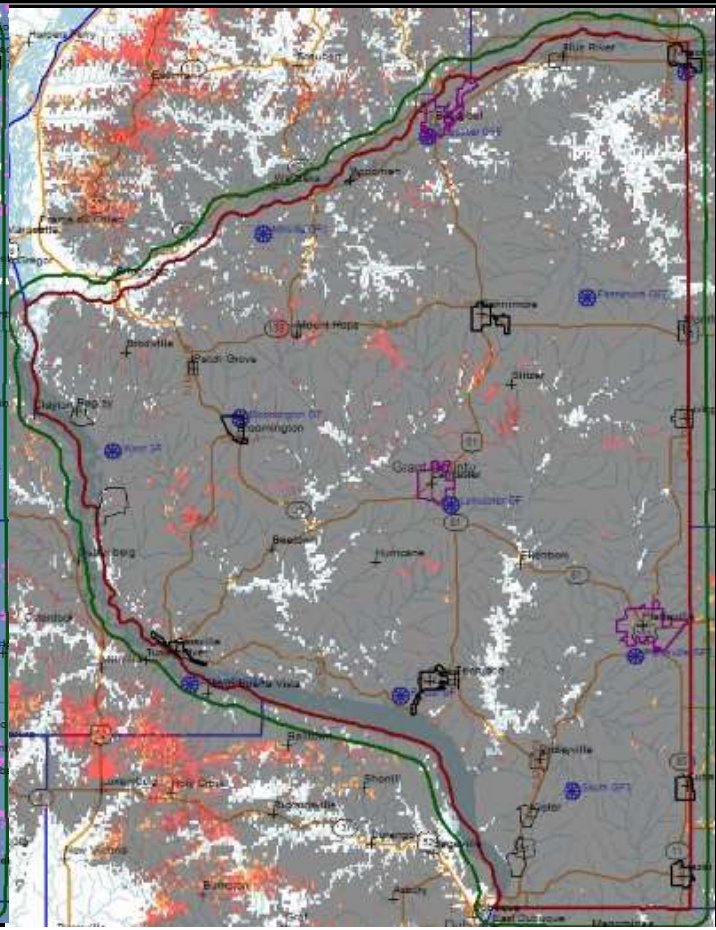
MOBILE OUTDOOR (P25)



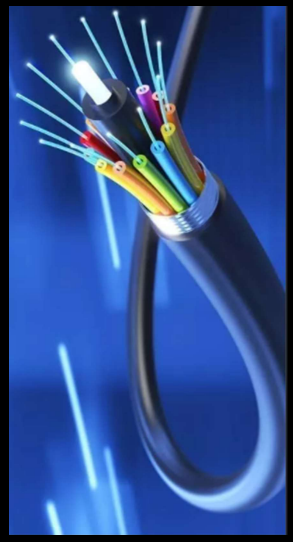
PORTABLE OUTDOOR (P25)



PAGING OUTDOOR (ANALOG)



Phase 3 – County Owned Infrastructure



GRANT COUNTY

Access Contact: TBD

Site Address: TBD

Site Name: TBD

FCC Tower Reg. No.: TBD

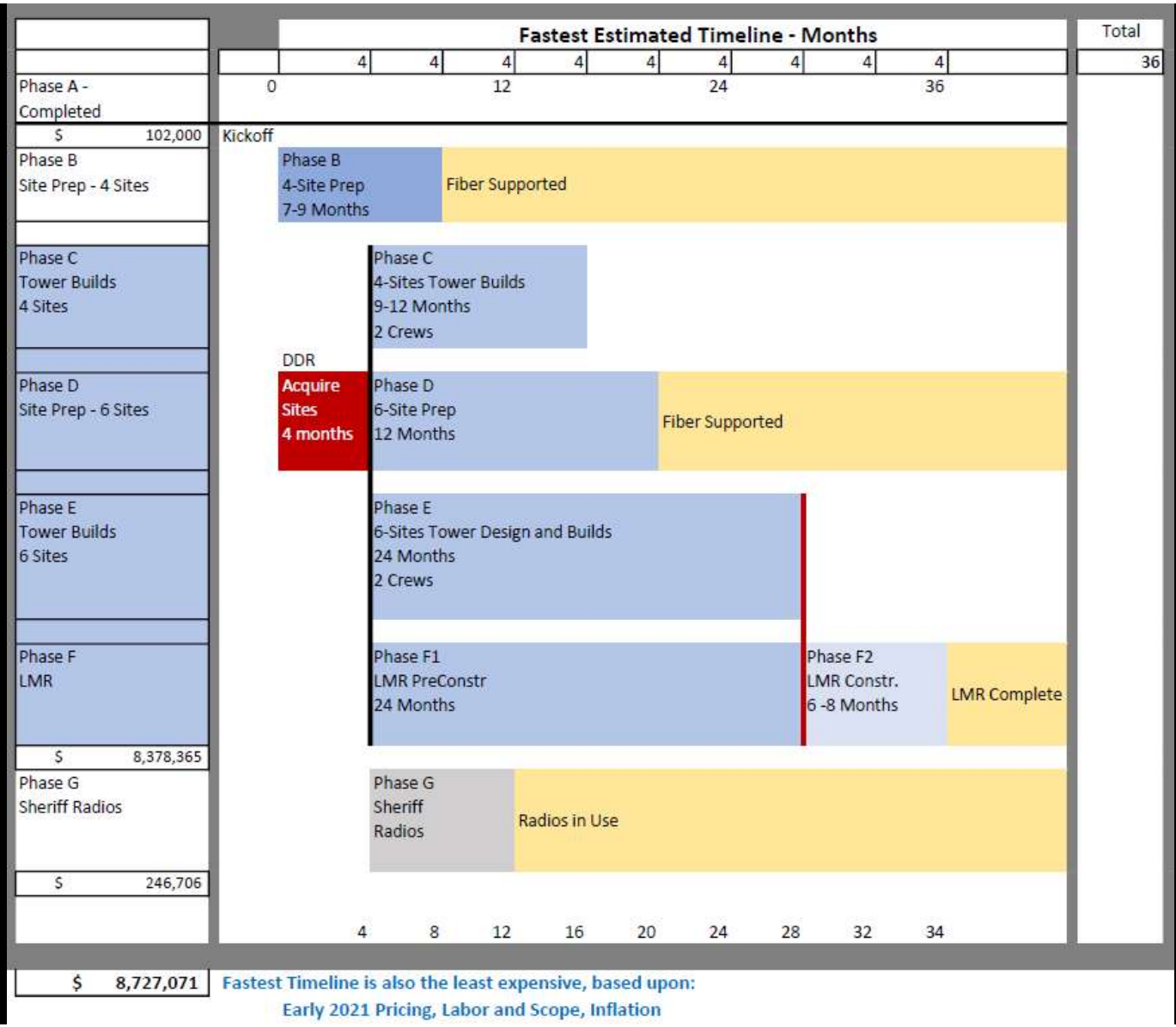











Fastest Estimated Timeline - Months
Total
4 4 4 4 4 4 4 4 4
36
0 12 24 36
Phase A - Completed
$ 102,000
Kickoff
Phase B
Site Prep - 4 Sites
Phase B
4-Site Prep
7-9 Months
Fiber Supported
Phase C
Tower Builds
4 Sites
Phase C
4-Sites Tower Builds
9-12 Months
2 Crews
DDR
Acquire Sites 4 months
Phase D
Site Prep - 6 Sites
Phase D
6-Site Prep
12 Months
Fiber Supported
Phase E
Tower Builds
6 Sites
Phase E
6-Sites Tower Design and Builds
24 Months
2 Crews
Phase F
LMR
Phase F1
LMR PreConstr
24 Months
Phase F2
LMR Constr.
6 -8 Months
LMR Complete
$ 8,378,365
Phase G
Sheriff Radios
Phase G
Sheriff
Radios
Radios in Use
$ 246,706
4 8 12 16 20 24 28 32 34
$ 8,727,071
Fastest Timeline is also the least expensive, based upon:
Early 2021 Pricing, Labor and Scope, Inflation


Q&A