



Mobile Ra

ENGINEERING,

MRE Quote #: K5587A,B **COMBINED SUMMARY**
Project Name: St Francis Fire Department
Project Address: 3750 Bridge Street NEW, St Francis, MN 55070
Project Bid Date: February 26, 2024
Project Close Date:
Partner Name: SFFD
Partner Contact / Telephone #: Captain Tim Kizer / 612-272-0244
AHJ Contact / Telephone #: FC Dave Schmidt / 763.267.6190
MRE Representative: Tim Kleinpaste / 612.437.8995

 x -A:

Design, Materials, Installation, Testing, Commissioning, Documentation, Permit.

 x -B:

3 Year Warranty. (As outlined in Addendum 1, attached)
3 Annual Compliance Tests (As outlined by MSFC, appendix "P")

COMBINED TOTAL: \$27,033.00 K5587 A+B

DATE: February 26, 2024

Note:

TAX IS NOT INCLUDED IN THIS QUOTE.

Respectfully submitted by:
Tim Kleinpaste
System Sales, Mobile Radio Engineering
612.437.8995 cell
tkleinpaste@mobilerradioeng.com



MRE Quote #: K5587-A
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DAS for PUBLIC SAFETY SERVICES:

- ✓ Design:
 - iBWave Level III design> propagation maps, equipment placements, riser.
- ✓ Materials
 - Provide physical components required for a complete DAS.
- ✓ Permits:
 - As required by local AHJ. (Typically called "800mHz" permit)
- ✓ Installation:
 - All labor to install material components of DAS system.
- ✓ Test:
 - Test coax integrity on-site. (Typically at 70-80% project completion)
- ✓ Commission:
 - Align Donor Antennas, program equipment, set levels, test system.
- ✓ Closeout:
 - Perform post-installation survey (required by AHJ), document, and file reports.
- ✓ TAXES:
 - TAX NOT INCLUDED in the quote.
- ✓ WARRANTY: 1 Year Parts Included. (Required annual testing: K55xx-B)

Date: K5587-A

Quoted price guaranteed 30 days.

Respectfully submitted by:

Tim Kleinpaste

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NOTES ON PUBLIC SAFETY DAS QUOTES

If the parking areas are to be sprayed out with insulation, we will need to be in there prior to installing wire hangers, preferably a week+ ahead of the sprayers.

Other trades/equipment affected (Get quotes from appropriate trades):

1. Electrical.
 - a. Our head-end requires a 15 amp, 120VAC power source.
 - i. BY EC.
 - b. We will need a ground location for the system.
 - i. BY EC.
 - c. Our antenna cable will require 2" floor penetrations per floor in a **vertical chase from lowest level through roof.**
 - i. BY EC.
 - d. Our head-end will require minimum 4'x4' wall mount space with 30" front clearance.
2. Roofing.
 - a. Our antenna cable will require a roof penetration and mast with weather head.
 - i. BY ROOFER/EC.
3. Fire Alarm.
 - a. Our alarm wire needs to be landed on a FAP "supervisory" input.
 - i. BY FAS PROVIDER.
 - b. Actual termination and address module (if needed).
 - i. BY FAS PROVIDER.
4. Warranty & Inspections.
 - a. Inspections required by State & Local code are to be done by Mobile Radio Engineering during the initial 3-year warranty period. Any other company doing inspections on equipment Mobile Radio Engineering provided to fulfill Mobile Radio Engineering iBwave level III design will void warranty on the system.
5. 3-YEAR PARTS WARRANTY & COMPLIANCE TESTING ("B" section of quote)
 - a. Per MSFC, Appendix "P".
 - b. SEPARATE OUTLINE ATTACHED.



MRE Quote #: K5587-B
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Project Close Date:
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Partner Contact / Telephone #: Captain Tim Kizer / 612-272-0244
AHJ Contact / Telephone #: FC Dave Schmidt / 763.267.6190
MRE Representative: Tim Kleinpaste / 612.437.8995

DAS for PUBLIC SAFETY ANNUAL TESTING:

- ✓ 3-YEAR WARRANTY & ANNUAL COMPLIANCE TESTING:
- ✓ 3 years parts and 3 annual compliance tests.
 - (Annual testing required by MSFC)
- ✓ TAXES: **TAXES NOT INCLUDED.**

Date: K5587-B

Next page:
"Addendum 1" Warranty/Compliance Service Agreement.



ADDENDUM 1:

**PUBLIC SAFETY DAS
SERVICE AGREEMENT**

Initial contract term: 3 years.

Renewal: Automatic annual renewal after Year 3.

The Service Agreement is pre-paid for first 3 anniversary dates of the system "START" date.

Public Safety DAS testing is an annual code requirement.

What is provided:

Factory-Authorized, Low-Voltage licensed technician will provide inspection.

Annual System test per Municipal Fire Code or Minnesota State Fire Code (Specified by AHJ)

- Y1, Y2, Y3: Test head-end and batteries.
- Documentation of test results.
- Filing of test results with AHJ, Building Owner, www.complianceengine.com

Testing Labor Charges:

- "No Charge" 8AM-4PM, Monday – Friday.

Repair Labor & Trip Charges:

- "No Charge" Trip Charge on first repair trip. Subsequent repair trip charges at \$60 per.
- Regular hourly rate 8AM-4PM, Monday-Friday.

Parts Charges:

- "No Charge" for In-Warranty parts.
- "No Charge" for In-Warranty standard shipping rate.
- In-Warranty Expedited shipping: Pay difference of standard ship versus expedited shipping.
- Out-of-Warranty parts sold at MSRP.
- "No Charge" for Out-of-Warranty standard shipping rate.
- Out-of-Warranty Expedited ship: Pay difference of standard shipping versus expedited shipping.

"HOLD MOBILE RADIO HARMLESS":

- 8AM – 4PM Monday -Friday without owner chaperone.
- After-hours: Owner chaperone required.

Exclusions:

Acts of God.	Fire.	Terrorism.
Social Unrest.	Reckless Damage.	Careless, Malicious Damage.

Contract Term: 3 years from "Start Date".

Renewal: Automatic annually after initial contract term.

Cancellation: Written required minimum of 60 days prior to end-of-term.

Contract Transfer:

- To new building owner with written authorization.
- Cancel contract – listed owner liable for existing term balance.
- Transfers to new building owner in building sale price – seller pays remainder of term to MRE.

END OF ADDENDUM 1 FOR PUBLIC SAFETY DAS SERVICE AGREEMENT.



5205 Hovis Road, Charlotte, NC 28208
 (402) 421-9000 | www.piersonwireless.com
 Your Wireless. Our Mission.

Scope of Work:

Pierson Wireless submits the following budgetary estimate for St Francis Fire Department located at 3750 Bridge St NW in St Francis, MN 55070. The budgetary solution presented is a Emergency Responder Radio Communication System (ERRCS) providing coverage with an Public Safety BDA for 700 AND 800 MHz 2W CLASS A AC. The estimate is based on the total coverage area of 34800 square feet.

Budgetary Estimate Summary

Project: St Francis Fire Department
 Location: 3750 Bridge St NW, St Francis, MN 55070
 Customer Name: Tim Kizer
 Customer Number: 612-272-0244
 Customer Email: tkizer@stfrancismn.org

Facility Information

Facility Type: Public Venue
 Floors in Coverage Area: 2
 Floors in Facility Area: 2
 Total Square Footage: 34,800
 Building Density: Building Density: Medium

Phase 1: AHJ & Site Assessment Estimate

AHJ Coordination + Approvals	\$2,000.00
Site Walk/Assessment/Grid Testing	\$2,196.00
TOTAL	\$4,196.00

Phase 2: Design/Installation/Implementation Estimate

iBwave DAS Design and Engineering	\$2,022.00
Professional Services & Logistics	\$4,920.12
Material: Passive	\$3,702.10
Material: Head-End (BDA ONLY)	\$9,738.81
Installation: Passive Network	\$9,650.00
Installation: Head-End (BDA ONLY)	\$3,900.00
Commissioning, Testing, Compliance Verification & Closeout	\$3,650.00
Monitoring & Management w/ Annual Compliance Audit	Not Required / Currently Excluded
TOTAL	\$37,583.03

2 Hour Riser Rated Material (If Needed)

Material: 2-Hour Fire Riser Rated	Not Required / Currently Excluded
Installation: 2-Hour Fire Riser Rated	Not Required / Currently Excluded
TOTAL	\$0.00

TOTAL PO: Pierson Wireless	\$41,779.03
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Clarifications:

- Solution Estimate
 - This solution is estimated for 5 indoor omni antennas, 4 splitters/directional couplers, 22 connectors, and approximately 650 feet of indoor coaxial cable.
- Building Density
 - Open – This is generally used for warehouse and manufacturing types of buildings that have large open areas with minimal walls. This does not include warehouses that have floor to ceiling storage racks.
 - Light – This is generally used for warehouse and manufacturing types of buildings that have large open areas with some office areas. This is also used for office buildings, with a majority of cubicles for offices.
 - Medium – This is generally used for office buildings with many offices and conference rooms. This is also used for hotels and apartment buildings.
 - Dense – This is generally used for hospitals and warehouses with floor to ceiling storage racks
- Antenna Per Square Foot Density
 - Open: 12,500, Light: 10,000, Medium: 7,500, Dense: 5,000
- Any future design and pricing are contingent on the completion of a thorough site survey and assessment of existing RF signals in the building at such time as the building can be deemed "90% construction complete" and include building skin, rooftop, windows, interior walls, etc.
 - Any changes to the ERRCS requirements may impact the initial design and pricing for this project and will be confirmed prior to the start of the project.
- All head-end equipment is required to be installed in a 2-hour rated room. All considerations to ensure that the head-end room/area will meet that specification will be provided by others.
- This estimate may include the additional labor and materials necessary to achieve a 2-hour fire rating for all riser coax cabling supporting the system, per the requirements of the Current County AHJ and the International Fire Code.
- This estimate may include the yearly acceptance test of an ERRC system that is required by the Federal codes and AHJ.
 - Federal codes and the AHJ require an ERRC system to be fully tested annually and report provided to the AHJ.
- Monitoring & Management (Warranty Compliance)
 - Includes 5 Year Warranty on Active and Passive DAS Infrastructure
 - Includes Pierson Wireless NOC Remote Monitoring
 - Includes Pierson Wireless NOC Remote Support
 - Includes Quarterly Reporting Via Pierson Wireless NOC
 - Includes AHJ Required Annual Compliance Audit
- This estimate assumes standard working hours of 7am-5pm.
- No Electrical services are included in this estimate.
- No conduit is included in this estimate.
- No drywall patching, or installation of access hatches are included in this estimate.
- No Union labor is included in this estimate.
- Prevailing wage considerations have not been included in this estimate.
- Sales tax is not included in the costs of this estimate.
- This estimate is valid for 30 days as a reference point only.



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TOTAL	\$4,196.00

Phase 2: Design/Installation/Implementation Estimate

iBwave DAS Design and Engineering	\$2,022.00
Professional Services & Logistics	\$6,922.88
Material: Passive	\$3,702.10
Material: Head-End (BDA, 24 HR Backup, Annunciator, & Fire Panel Alarming)	\$15,318.68
Installation: Passive Network	\$9,650.00
Installation: Head-End (BDA, Battery Backup, & Fire Panel Alarming)	\$6,250.00
Commissioning, Testing, Compliance Verification & Closeout	\$4,150.00
Monitoring & Management w/ Annual Compliance Audit	\$7,500.00
TOTAL	\$55,515.66

2 Hour Riser Rated Material (If Needed)

Material: 2-Hour Fire Riser Rated	\$0.00
Installation: 2-Hour Fire Riser Rated	\$0.00
TOTAL	\$0.00

TOTAL PO: Pierson Wireless	\$59,711.66
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