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Addendum No: **# 3**	Date this Addendum Issued: **July 23, 2026**	
Issuing Office: Matanuska-Susitna Borough School District (MSBSD) Purchasing Department 690 Cope Industrial Way Palmer, Alaska 99645 Phone: (907) 861-5120 Facsimile: (907) 861-5184	Previous Addenda Issued: Two 1 July 10, 2026 2 July 13, 2026	
Return Acknowledgment To: **Issuing Department** Quote Title: **DW BDA/ERCES Assessment and System Design Services** Quote No: **Q26-11**	Date and Hour of Quote Due Date: **REVISED: July 28, 2026 at 4:00 p.m.** ~~July 24, 2026 at 4:00 p.m.~~ ~~July 13, 2026 at 4:00 p.m.~~	

The following corrections, changes, additions, deletions, revisions, and/or clarifications are hereby made a part of the quote documents. In case of conflicts between this addendum and previously issued documents, this addendum shall take precedence.

Attachments:
Questions and Answers (2 pages)

Attachment A: REVISED Scope of Services. Please review Section 4 and Section 5 for changes. (9 pages)

END OF ADDENDUM #3

APPROVED BY:	Signature on File	DATE:	July 23, 2026

ADDENDUM #3

Information in this addendum takes precedence over original information. All other provisions of the document remain unchanged.

The following additions, corrections and changes are hereby made to the above-referenced Request for Quotation.

QUESTIONS AND ANSWERS:

GENERAL QUESTIONS:

1. Q: Will MSBSD consider an alternative solution if the outcome achieves better results than just a BDA?

   A: Yes. Once a contract is awarded, MSBSD will work with the selected consultant to review the project and discuss potential alternative solutions identified during the assessment. If an alternative approach is determined to better meet the project objectives and applicable code requirements, MSBSD is open to considering those recommendations, provided the final deliverables remain consistent with the intent and scope of the RFQ.

2. Q: Will CAD/as-built floor plans be provided for all awarded sites?

   A: Available as-built drawings will be provided to the awarded contractor for the selected sites. CAD files are not available for every site.

3. Q: Are portable classrooms included in the assessment scope?

   A: Yes. Portable classrooms associated with the selected school sites are included in the assessment scope. Radio coverage shall be evaluated in all applicable areas of each school campus, including portable classrooms.

4. Q: Are any existing BDA/ERCES systems currently installed at the listed facilities?

   A: Please review Addendum 2, Question 4.

5. Q: Will MSBSD provide radios and system access necessary for all required testing?

   A: Please review Addendum 2, Question 7.

6. Q: Will all alternate sites be awarded at contract execution or added later as funding allows?

   A: The initial contract award will include the Base Bid sites. Additive Alternate sites may be awarded at the time of contract execution or added later, subject to the availability of funding and any required approvals. MSBSD makes no guarantee that any Additive Alternate sites will be awarded.

7. Q: Is a PE stamp required on final deliverables?

   A: Yes. Engineering design documents included in the final deliverables that constitute the practice of engineering and are intended for bidding and construction shall be prepared under the responsible charge of, and signed and sealed by, a Professional Engineer currently licensed in the State of Alaska, as applicable.

8. Q: Does MSBSD require implementation cost estimates as part of the design package?

A: Yes. The final design package shall include an implementation cost estimate for the recommended BDA/ERCES improvements. The estimate shall be sufficient to support project budgeting and future construction procurement.

ATTACHMENT A:
REVISED SCOPE OF SERVICES

1. PURPOSE

MSBSD is requesting quotes from firms to perform BDA/ERCES assessments and system design at designated school facilities. The scope is intended to determine existing radio coverage performance and to develop code-compliant BDA/ERCES system designs identifying required equipment, locations, and configuration necessary to support reliable public safety and school district radio communications. This scope is assessment and design only.

2. BASE PROJECT SITES

Palmer High School: 1170 W. Bogard Road, Palmer, AK
Wasilla High School: 701 E. Bogard Road, Wasilla, AK

3. APPLICABLE CODES AND STANDARDS

All work shall reference and align with applicable codes and standards, including but not limited to:

A. International Fire Code (IFC) Section 510 – Emergency Responder Radio Coverage

B. International Building Code (IBC) (as adopted)

C. NFPA 1, NFPA 72, NFPA 1221 / 1225 (as applicable)

D. FCC regulations governing signal boosters and BDAs

E. ERCES (Emergency Responder Communications Enhancement Systems) requirements

All terminology, performance criteria, and system recommendations shall be framed using IFC Section 510 / ERCES language suitable for plan review and enforcement.

4. RADIO SYSTEMS

The assessment and system design shall evaluate and support VHF and UHF radio coverage at all sites, in addition to the public-safety radio systems listed below.
For clarity, the BDA/ERCES scope does not include general commercial cellular coverage for public use.
Cellular-based architectures (including DAS or neutral-host systems) may be considered an acceptable ERCES method when specifically engineered, dedicated, monitored, and compliant with IFC Section 510 requirements for public-safety radio and emergency responder communications.
Public-safety broadband or cellular-based responder communications (e.g., FirstNet-enabled systems) shall be evaluated as part of the assessment to identify existing coverage conditions, limitations, and potential interoperability considerations, and shall not replace or reduce required ERCES radio coverage.
Any evaluation of public-safety broadband or cellular-based responder communications is planning-level and informational only and shall not rely on commercial carrier service continuity, nor replace required ERCES survivability, monitoring, backup power, or performance requirements.

A. Required Radio Systems

The assessment and system design shall evaluate and support the following required public-safety and District radio systems, as applicable to each site:

1. ***UHF – MSBSD school district radios***
2. ***VHF – Borough Fire/EMS, required at all sites (Refer to pg. 6 Chart – Beckwitt-Areawide Conventional (VHF)***
3. ***VHF/ALMR (Alaska Land Mobile Radio System) – Required at all sites***
4. ***Police radio systems, jurisdiction specific as defined in Subsection B***

Cellular-based architectures (including DAS or neutral-host systems) may be considered an acceptable ERCES method only when engineered, dedicated, monitored, and compliant with IFC Section 510 requirements for public-safety radio communications.
Public-safety broadband or cellular-based responder communications (e.g., FirstNet-enabled systems) shall be evaluated as part of the assessment to document existing coverage conditions, limitations, and potential interoperability considerations, but shall not replace or reduce required ERCES radio coverage.
Any evaluation of public-safety broadband or cellular-based responder communications is informational only and shall not rely on commercial carrier service continuity, nor replace required ERCES survivability, monitoring, backup power, or performance requirements.

B. Site-Specific Police Coverage
Each site shall support radio coverage for the primary law-enforcement agencies with jurisdictional response responsibility, as identified below.
The listed agencies represent the required police radio systems to be evaluated and supported as part of the BDA/ERCES assessment and system design.
Primary Bid Sites:

1. Palmer High School
    a. Alaska State Troopers (AST)
    b. Palmer Police Department (PPD)
    c. Wasilla Police Department (WPD) excluded
2. Wasilla High School
    a. Alaska State Troopers (AST)
    b. Wasilla Police Department (WPD)
    c. Palmer Police Department (PPD) excluded

Alternate Bid Sites:

3. Career & Technical High School
    a. Alaska State Troopers (AST)
    b. Palmer Police Department (PPD) excluded
    c. Wasilla Police Department (WPD)
4. Colony High School
    a. Alaska State Troopers (AST)
    b. Palmer Police Department (PPD)
    c. Wasilla Police Department (WPD) excluded
5. Colony Middle School
    a. Alaska State Troopers (AST)
    b. Palmer Police Department (PPD)
    c. Wasilla Police Department (WPD) excluded
6. Houston High School
    a. Alaska State Troopers (AST)
    b. Palmer Police Department (PPD) excluded
    c. Wasilla Police Department (WPD) excluded
7. Houston Middle School
    a. Alaska State Troopers (AST)
    b. Palmer Police Department (PPD) excluded
    c. Wasilla Police Department (WPD) excluded
8. Palmer Junior Middle School
    a. Alaska State Troopers (AST)
    b. Palmer Police Department (PPD)
    c. Wasilla Police Department (WPD) excluded
9. Redington Jr/Sr High School
    a. Alaska State Troopers (AST)
    b. Palmer Police Department (PPD) excluded
    c. Wasilla Police Department (WPD) excluded
10. Su Valley Jr/Sr High School

a. Alaska State Troopers (AST)
b. Palmer Police Department (PPD) excluded
c. Wasilla Police Department (WPD) excluded

11. Teeland Middle School
    a. Alaska State Troopers (AST)
    b. Palmer Police Department (PPD) excluded
    c. Wasilla Police Department (WPD)
12. Wasilla Middle School
    a. Alaska State Troopers (AST)
    b. Palmer Police Department (PPD) excluded
    c. Wasilla Police Department (WPD)

Respondents shall not coordinate directly with Authorities Having Jurisdiction (AHJs), police agencies, or radio system owners unless expressly directed by the MSBSD.

Current MSBSD UHF Channels & Frequencies:

Channel 1	451.0625 MHz
Channel 2	451.9125 MHz
Channel 3	452.3625 MHz
Channel 4	452.7375 MHz
Channel 5	456.0625 MHz
Channel 6	456.8625 MHz
Channel 7	456.9125 MHz
Channel 8	457.2625 MHz
Channel 9	457.3625 MHz
Channel 10	457.7375 MHz
Channel 11	461.5625 MHz
Channel 12	461.8625 MHz
Channel 13	462.1000 MHz
Channel 14	462.2750 MHz
Channel 15	466.5625 MHz
Channel 16	467.2750 MHz

Site	TX [MHz]	RX [MHz]	Sig Level roof	GPS Coordinates	
	Downlink	Uplink		LAT	LONG
	TX	RX			
Bailey Hill	155.6875	140.3125	-67	61-37-26N	149-07-04W
ASTRO P25, VHF	154.8875	140.2375			
	154.7375	140.0875			
	155.4875	140.8375			
	155.8500	140.2875			
	156.0875	140.7125			
Beckwitt - Areawide - Conventional (VHF)	154.2950	151.2350	-71	61-43-54N	149-26-38W
VHF, Analog					
Cottonwood (CC) ALMR	774.74375	804.74375	-95	61-34-34N	149-24-59W
Astro P25, 700/800 MHZ	773.99375	803.99375			
	773.24375	803.24375	Note: Measured signal from a closest 700/800 MHz site at Cottonwood is too low to be cosider usable as a donor site for BDA/DAS operation in this band		
	772.49375	802.49375			
	771.63125	801.63125			
	770.75625	800.75625			

Alcantra Control Channels	Channel 1	Channel 2
Transmit Frequency:	154.7000	154.90000
Receive Frequency:	142.36250	140.98750

Notes:

- For Wasilla proper, Wasilla Police Department utilizes 700 mhz radio system
- The above Sites are listed so depending on what school is being evaluated the, the closest site would be point at for coverage.

5. SCOPE OF WORK

Pre-assessment coordination, in-building radio testing in occupied facilities, identification of deficiencies, donor signal analysis, and documentation.

A. Pre-Assessment Coordination

The selected firm shall:

1. Coordinate site access and scheduling with MSBSD Facilities, IT, and school administration
2. Perform assessments in occupied buildings during normal operating conditions
3. Review of drawings and background information provided by MSBSD
4. Submit all technical questions only to MSBSD

B. In-Building Radio Coverage Assessment

For each Base Site, the firm shall perform a BDA/ERCES-focused emergency responder radio coverage assessment that includes:

1. ***Walk testing and signal strength measurements throughout the building (i.e.: Grid Test)***
2. Evaluation with doors closed and under normal occupancy conditions

3. Identification of areas failing to meet IFC Section 510 performance thresholds
4. Identification of construction features impacting signal propagation
5. Identification of donor signal sources and constraints

C. IFC Section 510 Required Coverage Areas

Assessments and system designs shall explicitly evaluate and support BDA/ERCES radio coverage in all areas required by IFC Section 510, including but not limited to:

1. Fire command rooms, including school or district incident command rooms, security operations centers, or designated emergency coordination spaces
2. Fire pump rooms, including mechanical rooms housing fire protection, life-safety, or emergency systems
3. Exit stairways
4. Exit passageways and exit corridors
5. Elevators and elevator lobbies (as applicable)
6. Areas of refuge, including designated areas of assisted rescue or refuge spaces
7. Interior exit ramps
8. Other critical responder operational areas required by IFC Section 510, including spaces reasonably anticipated to be used for responder staging, command, or tactical operations during an emergency

D. DAQ Performance Targets

Assessments and designs shall be based on the following Delivered Audio Quality (DAQ) performance targets, consistent with IFC Section 510 and BDA/ERCES best practices.
Delivered Audio Quality (DAQ) is a qualitative measure of voice intelligibility for radio communications, where higher DAQ values indicate clearer, more intelligible speech suitable for emergency responder operations.
A minimum DAQ 3.4 shall be achieved throughout all IFC Section 510 required coverage areas identified in Section 5, Subsection D. DAQ 3.4 represents speech that is understandable with minimal repetition and is considered the minimum acceptable level for public-safety radio communications.
A target DAQ 4.0 to 4.5 shall be achieved in critical responder operational areas, where enhanced intelligibility is necessary for command, coordination, and life-safety decision-making. Critical responder operational areas are a subset of the IFC Section 510 coverage areas and include spaces where incident command, responder staging, or tactical operations are expected to occur.
The following table is provided for reference purposes to describe the standard DAQ scale used in public-safety radio communications:

DAQ Level	**Description of Speech Intelligibility**
DAQ 1.0	Unusable. Speech present but not understandable.
DAQ 2.0	Speech understandable with considerable effort; frequent repetition required due to noise or distortion.
DAQ 3.0	Speech understandable with slight effort; occasional repetition required.
DAQ 3.4	Speech understandable without repetition; some noise or distortion may be present.
DAQ 4.0	Speech easily understandable with little noise or distortion.
DAQ 4.5	Speech easily understandable with rare noise or distortion.
DAQ 5.0	Perfect audio quality with no discernible noise or distortion.

The proposed BDA/ERCES system design shall demonstrate the ability to maintain the required DAQ performance levels under both normal and emergency operating conditions, including during loss of normal power.

E. Public-Safety Broadband and Cellular Assessment and Design
As part of the scope of services, the firm shall assess and develop planning-level design considerations for public-safety broadband and cellular-based responder communications (e.g., FirstNet-enabled systems) in support of emergency responder communications within the BDA/ERCES framework.
The assessment shall document existing coverage conditions, observable limitations, building characteristics affecting signal propagation, and potential interoperability or coexistence considerations with the required BDA/ERCES infrastructure.
Based on assessment findings, the firm shall develop conceptual, planning-level design recommendations identifying how public-safety broadband or cellular-based responder communications could be supported or accommodated, including potential infrastructure considerations, coordination constraints, and high-level compatibility with ERCES system components.
Public-safety broadband or cellular-based responder communications shall not replace, reduce, or be used in lieu of required ERCES radio coverage under IFC Section 510. Any broadband or cellular-based concepts shall be supplemental to, and independent of, required ERCES radio system performance.
Design recommendations for public-safety broadband or cellular-based responder communications shall be conceptual only and shall not constitute final system design, procurement documents, installation requirements, or determination of code compliance.
Any proposed broadband or cellular-based responder communications design shall not rely on commercial carrier service continuity and shall not diminish required ERCES survivability, monitoring, backup power, or performance requirements.

6. SYSTEM DESIGN

Based on assessment findings, the firm shall develop a preliminary BDA/ERCES system design for each Base Site, including:

A. Recommended system type (BDA, DAS, or hybrid ERCES solution), including identification of any cellular-based or shared infrastructure utilized solely for public-safety ERCES purposes

B. Conceptual system architecture and signal flow

C. Preliminary equipment list with quantities (amplifiers, antennas, cabling, donor antennas, monitoring, backup power)

D. Conceptual identification of recommended equipment and antenna locations by building area, floor, or zone, including proposed head-end equipment locations, donor antenna locations, and typical coverage antenna placement strategies

E. Identification of electrical, fire alarm, monitoring, and structural coordination required for IFC Section 510 compliance

Identified equipment and antenna locations are conceptual and planning-level only, intended to support performance evaluation, coordination, and future capital planning, and shall not represent final installation locations, mounting details, or construction means and methods.
Any cellular-based ERCES solution proposed shall be dedicated to public-safety use, meet all IFC Section 510 survivability, monitoring, backup power, and performance requirements, and shall not rely on commercial carrier service continuity.
Designs shall be suitable for use as the basis of a future, separate competitive installation procurement.

7. BATTERY BACKUP AND MONITORING

ERCES system designs shall include battery backup and monitoring features as required by IFC Section 510, including:

A. Emergency power provisions for all ERCES equipment

B. System monitoring and fault annunciation requirements

C. Interface requirements with building fire alarm or monitoring systems

8. DELIVERABLES

For each Base Site, the firm shall provide:

A. Radio Coverage Assessment Report

B. BDA/ERCES System Design Package

C. Executive Summary suitable for administrative and capital planning use

Deliverables shall be provided in PDF format, with drawings provided in editable format if available.

9. ALTERNATES

Respondents shall provide separate pricing as alternates to perform the same Scope of Services for the following sites, each priced separately.

A. Career & Technical High School

B. Colony High School

C. Colony Middle School

D. Houston High School

E. Houston Middle School

F. Palmer Junior Middle School

G. Redington Jr/Sr High School

H. Su-Valley Jr/Sr High School

I. Teeland Middle School

J. Wasilla Middle School

10. SCOPE EXCLUSIONS

The following items are explicitly excluded from this Scope of Services:

A. BDA/ERCES system installation or construction

B. Permitting, AHJ plan review, or acceptance testing

C. Ongoing system maintenance or monitoring

D. Cellular signal boosters, cell phone extenders, or commercial cellular antenna systems

E. Commercial cellular coverage intended for public use, including consumer cellular signal boosters, cell phone extenders, or non-public-safety cellular systems.

Information related to existing or planned cellular systems may be provided by MSBSD for coordination purposes only, if compatibility with the proposed ERCES design is feasible.

11. CONTRACTOR QUALIFICATIONS

Respondents must demonstrate the following qualifications, knowledge, and experience relevant to BDA/ERCES assessment and system design:

A. Experience performing BDA/ERCES assessments and system design for public-safety communications systems in occupied facilities

B. RF engineering expertise applicable to public-safety radio systems, including in-building signal propagation, interference mitigation, and performance testing

C. Demonstrated knowledge of IFC Section 510, applicable NFPA standards, FCC requirements, and ERCES code compliance considerations

D. Experience working in occupied K-12 educational facilities, including coordination with facility operations, safety protocols, and security considerations

E. Required professional licenses, certifications, and credentials, as applicable to the proposed scope of services

Respondents shall demonstrate familiarity with recognized industry best practices for Emergency Responder Communications Enhancement Systems (ERCES), including those published or promoted by the Safer Buildings Coalition and related public-safety organizations. Experience with, or knowledge of, the principles outlined in the Safer Buildings Coalition Complete ERCES Handbook and the NICET In-Building Public Safety Communications (IB-PSC) framework is strongly preferred.
The MSBSD does not require specific organizational memberships or individual certifications; however, respondents shall clearly describe how their team's training, experience, and methodologies align with nationally recognized ERCES best practices and workforce competency standards.

12. PRICING SCHEDULE

The total price for the services provided under this Agreement shall not exceed the amount set forth in this Agreement, unless modified by written amendment approved by the Owner.

A. Payments shall be made in three (3) phases based on satisfactory completion of the milestones outlined below:
   1. **Phase 1**: Project Initiation: Thirty percent (30%) of the total contract price upon execution of the Agreement and commencement of work.
   2. **Phase 2**: Substantial Progress: Forty percent (40%) of the total contract price upon completion of agreed-upon interim deliverables or demonstration of substantial progress, as approved by the Owner.
   3. **Phase 3**: Final Completion: Thirty percent (30%) of the total contract price upon final delivery, completion of all contract requirements, and acceptance of all deliverables by the Owner.

B. Payments shall be made following receipt and approval of a properly submitted invoice and in accordance with the Owner's standard payment procedures.

13. SUBMITTAL REQUIREMENTS

At a minimum, quotes shall include:

A. Completed Quote Form

B. Suspension and Debarment Certification

C. Clean Air and Water Certification

D. Certification Regarding Lobbying/Disclosure of Lobbying Activities

E. Recovered Materials Certification

F. Proposed Subcontractor and Supplier List

G. Brief narrative statement describing the firm's relevant experience, expertise, licensing, and qualifications to perform work of this nature. Please include up to three examples of projects that are similar in size and scope to this one. Feel free to include any information you feel is necessary to demonstrate your ability to successfully complete this project.

14. CONTRACT AWARD

In general, the contract will be awarded to the lowest responsive, responsible bidder for the base sites and any alternate sites selected. The MSBSD reserves the right to consider, in addition to price, any of the following factors:

A. The ability, capacity, and skill of the respondent to perform the contract.

B. Whether the respondent can perform the contract within the time specified without delay or interference.

C. The character, integrity, judgment, experience, and efficiency of the respondent.

D. The quality of performance by the respondent on previous contracts of a similar nature.

E. Whether the respondent is in arrears on any existing contract with the MSBSD or is in litigation, arbitration, or other legal dispute with the MSBSD.

F. Previous compliance by the respondent with laws and regulations relating to the contract.

G. The number and scope of conditions attached to the quote.

H. The number and scope of minor variations contained in the quote.

I. If the contract is one which will require future maintenance or repairs, the availability of replacements, replacement parts, and maintenance service for any machinery, equipment, or other material proposed to be installed or supplied by the respondent.

J. The quality, availability, and adaptability of the supplier, equipment, or contractual services to the particular use required.

K. Whether the respondent is prepared to furnish supplies, equipment, or contractual services which meet the specifications of the MSBSD.

15. DISTRICT COORDINATION

All questions, clarifications, and frequency information shall be coordinated through MSBSD only. Respondents shall not contact AHJs or radio system owners directly unless authorized by the MSBSD.