

# Joseph K. Lumsden Bahweting Anishnabe School



SECTION 00 01 10  
TABLE OF CONTENTS

**DIVISION 00 – BIDDING & CONTRACT REQUIREMENTS**

<u>Section</u>	<u>Description</u>
00 01 01	Cover Page
00 01 10	Table of Contents
00 01 15	List of Drawings
00 11 16	Invitation to Bid
00 40 00	Bid Forms
00 21 13	Instructions to Bidders
00 65 00	Contract Close-out

**DIVISION 27 – TECHNOLOGY SYSTEMS**

<u>Section</u>	<u>Description</u>
27 51 16	Public Address and Program System

**APPENDICES**

<u>Section</u>	<u>Description</u>
Appendix A	Building Diagrams

END OF SECTION

SECTION 00 01 15  
LIST OF DRAWINGS

<u>File/Name</u>	<u>Description</u>
Not Used	

END OF SECTION

SECTION 00 11 16  
INVITATION TO BID

PART 1 - GENERAL

1.01 WORK INCLUDED: DISTRICT TECHNOLOGY RENOVATIONS

- A. JKL Bahweting Anishnabe School (Owner) is seeking bids for purchase and installation of associated equipment and installation related to public address systems. Proposed systems shall be configured and installed to service Owner's classrooms, public spaces and common areas across multiple facilities, and as described herein.
- B. Project: DISTRICT TECHNOLOGY RENOVATIONS
- C. Owner: JKL Bahweting Anishnabe School  
1301 Marquette Ave  
Sault Ste. Marie, Michigan 49783
- D. Designer: Communications by Design, Inc.
- E. Sites of Work:
  - 1. JKL Bahweting Anishnabe School  
1301 Marquette Ave  
Sault Ste. Marie, Michigan 49783

1.02 GENERAL DESCRIPTION OF PROJECT SEQUENCE

- A. Sequences and dates specified herein are for information only and indicate the plan and intent of the Owner. Actual dates shall be established based on final award of project.
- B. Sequence of operations shall be established by the Contractor within the guidelines established by the Owner as required to meet schedules.
- C. Schedule:
  - 1. Request for Bid Distributed: May 2, 2022
  - 2. Virtual Pre-Bid Meeting: May 11, 2022 at 10:00am
  - 3. Intent to Bids Due: May 12, 2022 by 5:00pm
  - 4. Question and Clarification Deadline: May 13, 2022 by 5:00pm
  - 5. Public Bids Due: May 25, 2022 at 10:00am

### 1.03 TYPES OF BIDS

- A. Bids shall be submitted in total and with required detail for each item bid and as is required herein, and include all portions of the work identified for the individual bid package as specified herein. Bids shall be made on unaltered bid forms as included herein. Bidder shall fill in all blank spaces and the bid shall be signed by a legal officer or agent authorized to bind the bidder to a contract.

### 1.04 VIRTUAL PRE-BID CONFERENCE

- A. A virtual pre-bid conference will be held. A discussion of the project and review of bid documents and an opportunity to ask questions. Attendance is highly encouraged for all contractors interested in bidding on any components or portions of this project. Attendance at the pre-bid conference will be a factor considered during evaluation of bids.

B. Time: 10:00am – May 11, 2022

C. Location: Virtual Zoom Meeting

<https://us06web.zoom.us/j/89239786766?pwd=Q0w3c1cyK3VYaitTUFP2bWZhZQkJmdz09>

Meeting ID: 892 3978 6766

Passcode: e4fWzk

One tap mobile

+13126266799,,89239786766#,,, \*673031# US (Chicago)

+19292056099,,89239786766#,,, \*673031# US (New York)

Dial by your location

+1 312 626 6799 US (Chicago)

+1 929 205 6099 US (New York)

+1 301 715 8592 US (Washington DC)

+1 346 248 7799 US (Houston)

+1 669 900 6833 US (San Jose)

+1 253 215 8782 US (Tacoma)

Meeting ID: 892 3978 6766

Passcode: 673031

- D. Any drawings identified in the table of contents herein will be distributed and reviewed at this conference.
- E. Physical building inspections of site(s) of work will be provided after school hours May 26<sup>th</sup> and May 27<sup>th</sup>. Site visits must be pre-arranged with Owner at or before the pre-bid conference. All site visits will be coordinated through Matt Patzwald – Director of Technology at [mpatzwald@jkl.school.org](mailto:mpatzwald@jkl.school.org)

#### 1.05 TIME AND PLACE OF BID RECEPTION

A. Physically sealed bids for the base bid work will be received at the district office and read aloud at a public opening. Bids arriving after the appointed time as determined by the Owner's representative conducting the public opening, shall be returned unopened. Bids will be accepted beginning forty-eight (48) hours prior to the appointed opening time provided they are in sealed packages and addressed as specified herein.

B. Bid Receipt Deadline: May 25, 2022 at 10:00am

1. Bid Opening Location:

JKL Bahweting Anishnabe School  
Main Office Conference Room  
1301 Marquette Avenue  
Sault Ste. Marie, Michigan 49783

C. Faxed or electronically delivered bids will not be accepted.

#### 1.06 EXAMINATION AND PROCUREMENT OF DOCUMENTS

A. Specifications and any relevant Drawings may be obtained from the Technology Designer. Contractors may obtain copies by documented request to Communications by Design, Attn: Rebecca Szilagy. Requests may be made by:

1. Writing – 4101 Sparks Drive, Grand Rapids, Michigan 49456

2. Email – [rszilagy@cbdconsulting.com](mailto:rszilagy@cbdconsulting.com)

#### 1.07 BID SECURITY

A. Bid security equal to five percent (5%) of the total bid amount, must accompany each base bid in accordance with the Instruction to Bidders.

B. Bid security shall be either a Bid Bond issued by a company licensed in the State of Michigan to furnish bid security or Certified Check made payable to the Owner.

#### 1.08 PERFORMANCE BOND COVERAGE

A. Selected Contractor(s) will be required to provide a performance bond and payment bond in an amount equal to one hundred percent (100%) of the bid amount including any accepted alternates at the Owner's discretion. Such

bonds shall be issued by surety licensed by the State of Michigan and acceptable to the Owner.

#### 1.09 OWNER'S RIGHT TO REJECT BIDS

- A. The Owner reserves the right to reject any and/or all bids. The Owner reserves the right to accept a bid, or portion thereof by issuance of a valid purchase order within ninety (90) calendar days following the bid opening. No bids may be withdrawn during this time without the specific approval of the Owner.
- B. Withdrawal of any Bids after the opening time without specific approval by Owner may result in forfeiture of required bid security by Bidder.

#### 1.10 DEFINITIONS

- A. "Owner" is intended to mean JKL Bahweting Anishnabe School, a general powers school district.
- B. For purposes of this project, the terms "Architect", "Engineer" and "Designer" are used synonymously to refer to Communications by Design, Inc., a Michigan Corporation.
- C. The term "Bidder" refers to any organization properly and accurately submitting a complete "Intent to Bid Form" prior to the required time specified herein and subsequently properly submitting completed set of bid documents as specified herein.
- D. The term "Contractor" herein is a reference to the firm(s) eventually selected by the Owner to provide the intended system(s), or any portion thereof, and fulfill the terms of the contract.
- E. The term Contract is a reference to the collective set of documents, drawings, diagrams, Owner's Purchase Order, Addenda and all other materials as provided for herein defining arrangement between Owner and Contractor.
- F. The term Addenda (or Addendum) are that portion of the Contract consisting of modifications, amendments, deletions or substitutions to the contract documents issued prior to the execution of the Contract.

END OF SECTION

SECTION 00 40 00  
BID FORMS



## Intent to Bid Form

Complete and submit the following form if you have interest or intend to submit a Bid for this project. Unaltered and completed forms must be received on or before 5:00 PM on May 12, 2022. Only bidders returning a completed "Intent to Bid Form" will be notified of required addenda.

### Company Information

Name: \_\_\_\_\_

Address Line1: \_\_\_\_\_

Address Line2: \_\_\_\_\_

City, State and Zip Code \_\_\_\_\_

### Primary Contact Information

Name: \_\_\_\_\_

Phone No.: \_\_\_\_\_

Fax. No.: \_\_\_\_\_

E-Mail Address: \_\_\_\_\_

Portions of the bid for which you will be responding:

☐

Section 27 51 16 - Public Address System

Submit unaltered and completed form to:

Rebecca Szilagy

Communications by Design, Inc.

[rszilagy@cbdconsulting.com](mailto:rszilagy@cbdconsulting.com)

## SEALED BID LABEL

*Separate, or fold over, the label on the line below, and affix to the exterior of sealed container so information is clearly visible for Bid Submission. Ensure label is attached in a manner to prevent accidental removal or defacement. Label shall serve as sole identification for sealed bid at submission.*

---

BID TO: JKL Bahweting Anishnabe School  
Attention: Rebecca Aldrich  
1301 Marquette Ave.  
Sault Ste. Marie, Michigan 49783

BID FROM:

---

---

---

PROJECT: DISTRICT TECHNOLOGY RENOVATIONS  
TECHNOLOGY BID #2742

INCLUDING Addendum No. \_\_\_\_\_ Dated \_\_\_\_\_  
ADDENDA: Addendum No. \_\_\_\_\_ Dated \_\_\_\_\_

DUE: May 25, 2022 at 10:00am

## BID FORM

BID TO: JKL Bahweting Anishnabe School  
Attention: Rebecca Aldrich  
1301 Marquette Ave.  
Sault Ste. Marie, Michigan 49783

BID FROM: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

PROJECT: DISTRICT TECHNOLOGY RENOVATIONS  
TECHNOLOGY BID #2742

The undersigned, having familiarized themselves with all local conditions affecting the cost of work, and having examined the site and all applicable Bidding Documents herein, and herein referenced, including, but not limited to, all addenda issued thereto, hereby propose to furnish all labor, material, equipment, applicable taxes and services required for proper completion of each of the following categories of this project for the sum of:

Bid Category \_\_\_\_\_ Title \_\_\_\_\_  
\_\_\_\_\_ Dollars (\$ \_\_\_\_\_).

Said amount written above constituting the Base Bid

### **TAXES:**

Bid sum includes all applicable taxes.

### **ALLOWANCES:**

Base bid includes all applicable allowance cost(s) as set forth herein.

### **COST OF BONDS:**

Bid sum includes cost of furnishing a Performance Bond and Labor and Material Payment Bond, each in the amount of one hundred percent (100%) of the bid.

### **ACKNOWLEDGEMENT OF ADDENDA:**

The following addenda have been received, are hereby acknowledged, and their execution is included in both base bid and alternate bids herein.

Addendum No. \_\_\_\_\_ Dated \_\_\_\_\_ Addendum No. \_\_\_\_\_ Dated \_\_\_\_\_

### **ALTERNATES:**

Based bid amount may be increased or decreased in accordance with each of the following alternate bids as may be selected, following procedures stated herein. Voluntary Alternates shown

below are identified and described in detail on appropriate attachment(s) as referenced herein.

Voluntary Alternate A \_\_\_\_\_

Voluntary Alternate B \_\_\_\_\_

Voluntary Alternate C \_\_\_\_\_

**PRINCIPAL SUBCONTRACTORS**

As required herein, the following Subcontractors are proposed to be used for this project:

Legal Name: \_\_\_\_\_ Work Proposed \_\_\_\_\_

Legal Name: \_\_\_\_\_ Work Proposed \_\_\_\_\_

**BID SECURITY:**

Accompanying this Bid, as required herein, is a bid security in the form of Certified Check/Cashier's Check/Bidder's Bond in the amount of:

\_\_\_\_\_ Dollars (\$ \_\_\_\_\_), payable to the Owner, which it is agreed, shall be retained as liquidated damages, not as a penalty, by the Owner, if the undersigned fails to execute the Contract in conformity with the form of Contract incorporated and referenced herein and fails to furnish specified bonds within ten (10) days after date of issuance of a Letter of Intent to the undersigned.

If awarded the Contract, the undersigned agrees to commence work within ten (10) calendar days after date of issuance of a Purchase Order, which shall be considered as the notice to proceed, and agrees to complete the work in accordance with the schedule herein.

**FAMILIAL DISCLOSURE:**

Accompanying this Bid, as required herein, is a legally executed and notarized Michigan Familial Disclosure Statement.

**EXCEPTIONS:**

Bidder takes no exception to terms, conditions, specifications and/or any other requirements herein unless expressly noted, and specifically identified as provided for herein on unaltered Contract Exception form accompanying this Bid.

**SIGNATORY AUTHORITY:**

The undersigned certifies they are an authorized agent of the bidding entity, and legally able to bind the bidding entity to the terms, conditions and responsibilities of this, and all referenced bid documents. Furthermore, the undersigned acknowledges an understanding that non-compliance of this authority or any other bidding requirements may result in forfeiture of bid security, dismissal of consideration of bid submitted, and/or personal liability against the signatory.

**AGREEMENT:**

The undersigned agree(s) to provide the post-bid information required within ten (10) days after notification of a Letter of Intent and to execute an agreement for work covered by this Bid on the Owner's standard Purchase Order for which terms and conditions are expanded to include all Bidding Documents and subsequent addenda issued thereto.

In submitting this bid, it is understood that the Owner reserves the right to reject any or all bids. It is further agreed that this bid is binding for a period of Ninety (90) days from the opening thereof.

Respectfully submitted,

Date: \_\_\_\_\_

Firm Name: \_\_\_\_\_

By: \_\_\_\_\_

Signed: \_\_\_\_\_

Title: \_\_\_\_\_

Official Address: \_\_\_\_\_

\_\_\_\_\_

Telephone Number: \_\_\_\_\_

Primary Contact Email Address: \_\_\_\_\_

*(If Corporation, affix Seal)*

**Michigan Familial Relationship Disclosure Statement**

In accordance with Section 1267 of Michigan Revised School Code this sworn and notarized statement of an authorized representative, discloses any familial relationship between the owner and/or any employee of the Bidder, and any member of the project Owner's governing Board(s) or Superintendent(s).

If any conflict of interest is discovered subsequent to submission of bid, written disclosure shall be submitted to the project Owner within seven (7) days of discovery. The project Owner reserves the right to immediately terminate any contract with Bidder upon notification of a conflict of interest. Upon such termination, the project Owner shall compensate Bidder only for the value of any goods or services provided to the Owner prior to such termination as determined by Designer.

*(Check only one Box Below)*

☐ It is hereby acknowledged and certified by Bidder that no familial relationship exists between the owner or any employee of the Bidder and any member of the project Owner's governing Board(s) or Superintendent(s).

☐ A familial relationship exists between the owner or an employee of the Bidder and a member of the project Owner's governing Board(s) or Superintendent(s). The person(s) and the relationship(s) are as follows:

***Bidder***

***Board or Superintendent***

_____	_____
_____	_____
_____	_____
_____	_____

**Bidder Authorized Representative:**

Bidder: \_\_\_\_\_

Representative's Signature: \_\_\_\_\_

Print or Type Name: \_\_\_\_\_

Representative's Title: \_\_\_\_\_

Subscribed and sworn this \_\_\_\_\_ day of \_\_\_\_\_, 2022.

In the County of \_\_\_\_\_ State of \_\_\_\_\_

By \_\_\_\_\_  
Notary Public Signature

Seal or Stamp:

My commission expires on: \_\_\_\_\_

## **REFERENCES**

Customer name: \_\_\_\_\_  
Address: \_\_\_\_\_  
City/State/Zip: \_\_\_\_\_  
Contact name: \_\_\_\_\_  
Contact title: \_\_\_\_\_  
Phone: \_\_\_\_\_  
E-mail: \_\_\_\_\_  
Scope of project: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
Date of completion: \_\_\_\_\_

Customer name: \_\_\_\_\_  
Address: \_\_\_\_\_  
City/State/Zip: \_\_\_\_\_  
Contact name: \_\_\_\_\_  
Contact title: \_\_\_\_\_  
Phone: \_\_\_\_\_  
E-mail: \_\_\_\_\_  
Scope of project: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
Date of completion: \_\_\_\_\_

Customer name: \_\_\_\_\_  
Address: \_\_\_\_\_  
City/State/Zip: \_\_\_\_\_  
Contact name: \_\_\_\_\_  
Contact title: \_\_\_\_\_  
Phone: \_\_\_\_\_  
E-mail: \_\_\_\_\_  
Scope of project: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
Date of completion: \_\_\_\_\_

## **IRAN LINKED BUSINESS AFFIDAVIT**

*All Bids shall be accompanied by a sworn statement disclosing any Iran Linked Business relationship that exists within the owners, including its officers, directors and employees.*

The undersigned, owner or authorized officer of \_\_\_\_\_ (the bidder), pursuant to Michigan Public Act No. 517 of 2012, the "Iran Linked Business" requirement provided in the JKL Bahweting Anishnabe School Proposals hereby represents and warrants that the bidder, including its officers, directors and employees, is not an "Iran Linked Business" within the meaning of the applicable Public Act, and that in the event bidder is awarded a contract as a result of this RFB, the bidder will not become an "Iran Linked Business" at any time during the course of performing under the contract. The bidder further acknowledges that any person who is found to have submitted a false certification is responsible for a civil penalty of not more than \$250,000.00 or 2 times the amount of the contract or proposed contract for which the false certification was made, whichever is greater, the cost of the District investigation, and reasonable attorney fees, in addition to the fine. Moreover, any person who submitted a false certification shall be ineligible to bid on future Requests for Bids for three (3) years from the date that it is determined that the person has submitted the false certification.

**There is not an "Iran Linked Business" that exists within the bidder and/or owner, officers, directors and employees.**

### **Bidder**

\_\_\_\_\_  
[Company Name]

\_\_\_\_\_  
[Signature]

\_\_\_\_\_  
[Title]

This instrument was acknowledged before me, a Notary Public,

in and for \_\_\_\_\_ County,

\_\_\_\_\_ on this \_\_\_\_ day of \_\_\_\_\_,  
20\_\_,

\_\_\_\_\_  
[Notary Public Signature]

My Commission expires: \_\_\_\_\_

Acting in the County of: \_\_\_\_\_



## **CONTRACT EXCEPTIONS**

*Check one Box*

☐ Bidder takes no exception to, and agrees to comply with all sections, terms, conditions and/or requirements of the Contract Documents.

☐ Bidder proposes the following exceptions to the Contract Documents:

<i><b>Paragraph Number</b></i>	<i><b>Explanation</b></i>
<hr/>	<hr/>
<hr/>	<hr/>
<hr/>	<hr/>
<hr/>	<hr/>
<hr/>	<hr/>
<hr/>	<hr/>
<hr/>	<hr/>
<hr/>	<hr/>
<hr/>	<hr/>
<hr/>	<hr/>

**NOTE:**

Exception(s) to any bid sections, terms, conditions and/or requirements deemed excessive for any reason by the Owner and/or Designer may result in disqualification of Bid.

## **SCHEDULE OF VALUES/BID FORM**

*(Bidder may submit version of only this form with slight variation. All information in this form is required. Form submitted must materially match below both in content and format. Electronic version of this form is required with bid package as Microsoft Excel compatible spreadsheet on USB drive for each project section being bid. Failure to provide appropriate and complete SCHEDULE OF VALUES, as determined by the Owner and/or Designer, may result in disqualification of Bid.)*

Bidder: \_\_\_\_\_ Bid Division: 27 51 16

[illegible]

END OF SECTION

SECTION 00 21 13  
INSTRUCTIONS TO BIDDERS

PART 1 - GENERAL

1.01 OWNERSHIP

- A. Bidders prepare and provide bids without any cost to the Owner and/or Designer. Once opened, bids become the sole property of the Owner. Bidders have no claim to, or ownership of bids opened. Bids become subject to all legal statutes including, if applicable, United States and Michigan Freedom of Information Acts and related laws.

1.02 COMPLIANCE

- A. This document establishes the primary system(s) design configuration. The Bidder's bid response shall include all services, supplies, components and equipment required to provide a complete turnkey system(s) which meets or exceeds all specifications for each given bid item being proposed.
- B. Owner prefers to enter into a contract with a single bidder for all materials for completion of this project but shall consider combinations of portions of bids from various bidders. The Owner reserves the right to award portions of the project to multiple bidders who will be required to cooperate with one another in order to complete the work.
- C. By their response, Bidders agree to comply with all sections, terms, conditions and/or requirements of the contract documents except as expressly noted, and specifically identified by paragraph number on the unaltered Contract Exceptions Bid Form. Exceptions to any bid sections, terms, conditions and/or requirements deemed excessive by the Owner and/or Bid Coordinator may disqualify Bid.
- D. In compliance with the Freedom of Information Act (FOIA), the Owner shall make bid documents available for public review after issuance of purchase order to the successful bidder/s.
- E. In connection with the execution of this Contract, Contractor and any Subcontractors shall not discriminate against any employee or applicant for employment because of race, religion, color, sex, age, or national origin.
- F. Negligence in preparation, improper preparation, errors in, or omissions from Bids shall not relieve Bidder from fulfillment of any and all obligations and requirements of the Contract Documents.

- G. All Bid documents and worksheets must be completed in detail and submitted together on time.
- H. All documents constituting the entire present agreement shall be construed in accordance with and governed by the laws of the State of Michigan.
- I. Designer shall have authority for interpretation of Contract Documents. In the event terms, provisions or any other portion of the Contract Documents is/are in dispute, Designer shall have full and final authority to interpret the Contract Documents, and such interpretation shall be final and binding.
- J. In the event of a conflict between any terms or conditions in any of the documents comprising the entire present Agreement, the terms and conditions set forth in this document shall take precedence.

#### 1.03 NOTICE AND RESPONSE

- A. Upon notification of Bidder being considered as a finalist, the Bidder shall provide to the Owner and Designer, within 48 hours, a current “Dunn and Bradstreet Supplier Evaluation Report” and other documentation as may be required of finalists herein and as requested by Owner and/or Bid Coordinator.
- B. Bidder shall provide timely response to all requests from Designer and/or Owner regarding clarification and/or elaboration concerning, but not limited to its Bid as may be deemed relevant by the Owner and/or Designer.

#### 1.04 PROTECTION AND SAFETY

- A. Contractor shall continuously maintain adequate protection of all Work from damage and shall protect the Owner’s property from injury or loss arising in connection with the execution of the Contract. Contractor shall make good any such damage, injury or loss, except such as may be directly caused by agents or employees of the Owner. The Contractor shall adequately protect adjacent property as required by law, by the Contract Documents, or as otherwise required, to cause no damage to them during the execution of the Contract. This requirement shall also apply to structures above and below ground as conditions of the site require.
- B. Contractor shall be solely responsible for, and have control over means, methods, techniques, sequences and procedures for initiating, maintaining and supervising all safety precautions and programs in connection with the performance of the contract. Contractor shall take all necessary precautions for the safety of employees and visitors on the site of the Project and shall comply with applicable provisions of federal, state, and municipal safety laws and building codes to prevent accidents or injury to persons on, about, or adjacent to the premises where the Work is being performed. Contractor shall erect and properly maintain at all times, as required by the conditions and

progress of the Work, all necessary safeguards for the protection of workers and the community.

- C. Contractor shall vigorously defend any and all suits that may be brought against the Owner by any person and/or entity, whether in the employ of the Contractor or not, for damage to property, and/or injury or death to persons alleged or claimed to have been caused by or through the performance of work.

#### 1.05 DRAWINGS DIAGRAMS AND ILLUSTRATIONS

- A. Drawings, Diagrams and Illustrations are diagrammatic in nature and indicate general arrangement and nature of systems and work included.
- B. Floor plan drawings are provided to assist the contractor in preparing documentation and reports as required herein.

### PART 2 - MATERIALS

#### 2.01 VOLUNTARY ALTERNATES AND SUBSTITUTION OF SPECIFIED PRODUCTS

- A. This Request for Bid describes a particular implementation. All Bids must provide pricing on the “base bid” as described herein. Voluntary alternatives providing comparable functionality with significant cost reduction and/or performance enhancement may be proposed. Voluntary alternatives are encouraged but must be identified as “Voluntary Alternates” and detailed on unaltered Bid Forms contained herein. Voluntary Alternates may be further detailed and/or explained in attachments to the unaltered Bid Forms contained herein. Exceptions to the Request for Bid specifications must be clearly noted and explained for each Voluntary Alternate proposed.
- B. No substitutions of specified products may be made without specific prior authorization by Designer and Owner. Individual bid divisions herein contain particular information related to acceptable manufacturer and product requirements.
- C. Trade-in, equipment/license exchanges or other return allowances may be provided as a voluntary alternate. Trade-in, exchange or other return equipment allowances shall not be included in base bid amount.

### PART 3 - EXECUTION

#### 3.01 EXAMINATION OF DOCUMENTS AND SITE

- A. Bidders shall carefully examine the Contract Documents and the construction site to obtain first-hand knowledge of existing conditions and requirements. No plea of ignorance of conditions that exist, or any other relevant matter

concerning work to be performed in the execution of work will be accepted as justification for failure to fulfill every detail of all requirements as described herein.

### 3.02 QUESTIONS, INTERPRETATIONS AND ADDENDA

- A. Any bidder finding discrepancies between Drawings, Specifications and/or Bid Documents, or be in doubt as to the exact meaning of any provision or detail shall notify the Designer at once, and before the deadline for Questions and Clarifications. The Designer may then, at their option, issue Addenda clarifying same. The Designer is not responsible for oral instructions, or Bidder's/Contractor's misinterpretations of Drawings, Specifications and/or Bid Documents.
- B. The Designer reserves the right to issue Addenda at any time up to thirty-six (36) hours prior to the scheduled bid opening. All such addenda shall become, upon issuance, an inseparable part of the Specification/Contract Documents. Each bidder shall incorporate within their bid all costs for items listed in any/all Addenda, and shall acknowledge receipt and identifying number of each Addendum on the Bid Form and on the outside of the sealed bid container.
- C. Addenda will be forwarded to each bidder who has received a copy of the Bidding Documents and has submitted "Intent to Bid Form" in addition to being posted publicly.

### 3.03 BID SECURITY, BONDS AND INSURANCE

- A. Bid Security, Performance and Payment Bonds are required on this project.
  - 1. Bid security equal to five percent (5%) of the bid amount must accompany each bid in accordance with the Instruction to Bidders.
    - a. Bid security shall be either a Bid Bond issued by a company licensed in the State of Michigan to furnish bid security or Certified Check made payable to the Owner.
- B. The selected Contractor will be required to provide a performance bond and a payment bond each in an amount equal to one hundred percent (100%) of the bid amount including any accepted alternates at the Owner's discretion.
  - 1. The surety of the performance bond shall remain in effect until all acceptances and final contract close-out requirements herein have been executed by the Owner.
- C. Contractor shall provide, prior to beginning any work at the sites, certificate of insurance for delivery to Owner indicating all required insurance coverage is in force.

1. Workers' Compensation and Employer's Liability Insurance
  - a. Coverage A – Statutory
  - b. Coverage B - \$1,000,000 Per Accident
2. Broad Form Comprehensive General Liability Insurance (including – Premises, Elevators, Contractor's Protective Liability, Contractual, Products & Completed Operations – including Broad Form Extensions).
  - a. Each Occurrence - \$1,000,000
  - b. General Aggregate - \$2,000,000
  - c. Products & Completed Operation Aggregate - \$2,000,000
  - d. Personal Injury & Advertising Injury - \$1,000,000
  - e. Fire Legal - \$100,000
3. Sub-contractors Operations, Products – Completed Operations and Contractual Liabilities, plus such excess coverage as may be appropriate for the limits listed.
4. Comprehensive Automobile Liability Insurance (owned, hired, and non-owned automobiles).
  - a. Bodily - \$1,000,000 each Person and \$1,000,000 each Occurrence
  - b. Property Damage - \$1,000,000
5. Furnish Owner with Contingent Liability Insurance Policy with coverage and liability limits the same as for Public Liability Insurance specified herein. Designate on policy as assured, only the Owner.
6. Furnish Owner with Contingent Property Damage Insurance Policy with coverage and liability limits the same as for Property Damage specified herein. Designate on policy as assured, only the Owner.
7. Policies shall include notification clause requiring ninety (90) days written notice to Owner in the event of policy cancellation, expiration, non-renewal, coverage reduction or other material change.
8. Contractor shall not commence work under the Contract until after all insurance required herein as been obtained and certificates for such are approved by Owner.



D. All such bonds and/or insurance shall be issued by surety licensed by the State of Michigan and acceptable to the Owner.

1. Insurance certificate(s) shall be signed by insurance agent licensed in the state of Michigan or a representative of the insurance company.

E. Contractor agrees to indemnify and hold harmless the Owner and Designer, including their agents and employees, from and against all claims, damages, losses and expenses, including, but not limited to, attorney fees arising out of, or resulting from the performance of the work to the fullest extent allowed by law on a comparison basis of fault.

### 3.04 MODIFICATION AND WITHDRAWAL

A. Bids may be withdrawn and/or changed any time prior to the deadline for submission of bids. Bids may not be withdrawn or changed thereafter and shall be deemed a firm offer continuing for ninety (90) calendar days. Bids received after the deadline for submission will be returned unopened at the Owner's discretion.

B. Withdrawal of any Bid after the opening time without specific approval by Owner may result in forfeiture of required bid security by Bidder.

### 3.05 CODES, ORDINANCES, REGULATIONS AND RELATED

A. All labor and materials shall be furnished and installed in strict accordance with the latest applicable codes, ordinances and regulations of any governing body having jurisdiction over this project.

B. In the event the quality of labor and materials required by the Drawings and Specifications herein exceeds requirements of current applicable codes, ordinances and regulations, the Drawings and Specifications shall take precedence.

C. In the event the quality of labor and materials required by current applicable codes, ordinances and regulations having jurisdiction over this project exceeds that of the Drawings and Specifications herein, the applicable codes, ordinances and regulations shall take precedence.

D. The Contractor shall give all notices and comply with all codes, laws, ordinances, rules and regulations of any authority having jurisdiction, which bears on the performance of its work. This compliance includes, but is not limited to, the Michigan School Safety Initiative (PA129, PA130, PA131 and PA138) if applicable to work being performed.

E. The Contractor shall pay for all licenses, permits, taxes, and fees required for this project; and shall comply with all federal, state, local and Owner's codes, laws, ordinances, regulations and other requirements applicable to the work

specified at no additional cost to the Owner. Contractor shall submit copies of all approved certificates and approvals to the Owner upon receipt.

### 3.06 SUB-CONTRACTOR AND MATERIAL SUPPLIER

- A. The successful Bidder shall submit to the Owner and Designer a complete list of all sub-contractors and all material suppliers proposed to engage on the work. Sub-contracts shall not be awarded until after they have been approved by the Designer and Owner.
- B. Finalist bidders may be required to submit additional details related to sub-contractors and suppliers within forty-eight (48) hours after the bid opening.
- C. Names of any principal sub-contractors must be listed on the Bid Form.
- D. All contracts made by the successful Bidder with Subcontractors shall be covered by the terms and conditions herein. The successful Bidder shall see to it that Subcontractors are fully informed in regard to these terms and conditions, and shall bind all subcontractors to the same terms and conditions. Failure to do so will absolve the Owner from any liability for additional cost due to subcontractor claims for additional cost, time or any claim(s) for additional cost by subcontractor(s).

### 3.07 BID RESPONSE FORMAT

- A. Bidder shall provide complete Bid copies in two formats as described herein.
  - 1. One (1) Hard copy format responses shall be in a bound tabulated format. Each response shall have tab indicators for each section.
  - 2. One (1) Electronic copy format responses shall be submitted on a USB Drive, readable by a standard Microsoft Windows 10 workstation. Electronic media shall contain separate folders to organize response documentation as described herein. Files submitted electronically shall be **Adobe Acrobat** "PDF" format (SCHEDULE OF VALUES is additionally required to be on the USB drive in the appropriate folder as a spreadsheet and as described herein).
- B. All Bid Response formats shall be clearly externally marked to include, but not be limited to:
  - 1. Bidder identification.
  - 2. Project Owner identification.
  - 3. Project name.
  - 4. Bid submission date.

- C. Bid Responses shall include an index containing copies/PDF of a complete index of documents comprising Bid Response. Responses shall include, but not be limited to the following tabbed/folder sections:
1. Section 1 – Forms, which shall contain copies/PDF files of all required and completed bid forms.
    - a. BID FORM
    - b. Michigan Familial Relationship Disclosure Statement
    - c. Iranian Linked Business Affidavit
    - d. REFERENCES
    - e. CONTRACT EXCEPTIONS
    - f. SCHEDULE(s) OF VALUES
    - g. BID BOND
  2. Section 2 – Overview, which shall contain copies/PDF files of cover letter and/or executive overview.
  3. Section 3 – Submittals, which shall contain copies/PDF files of all required and voluntary submittals.
  4. Section 4 – Appendices, which shall contain copies/PDF files of other reference materials Bidder wishes to, or is required to submit.

### 3.08 AWARD OF CONTRACT

- A. The material proposed to be used for the completion of work, and the competency, solvency and responsibility of bidders will receive due consideration before award of contract. In the reception of bids for this work, the Owner incurs no obligation to accept the lowest, or any bid submitted. The right to accept or reject any and all bids or portion thereof is reserved by the Owner. The Owner reserves the right to require testimonial, accounting or legal documents pertaining to the solvency of a Contractor, or any other decision factor the Owner deems appropriate, prior to award of contract.
- B. Owner reserves the right to select individual components from schedule of values independent of installation as may be determined in Owners best interest. Selected bidder may be required to install selected components provided by others.
- C. Issuance of a Purchase Order by Owner in response to a valid bid shall be a Notice to Proceed, and shall become part of, but not limited to, all terms,

conditions and requirements herein. Notice to Proceed shall have the full effect of contract award, and shall make all terms, conditions, requirements and responsibilities of Bidder binding upon issuance. Notice to Proceed, once issued, shall become an inseparable part of the contract documents herein, and constitute both Bidder and Owner's acceptance of contract.

### 3.09 TIME, SCHEDULES, PROJECT MANAGEMENT, MEETINGS AND PLANS

- A. Time is of the essence on this project. Award of contracts for this project will be contingent on the bidder's agreement to complete the work on or before the contract completion date stated herein.
- B. All Contractors will commence work in such a manner and at such a time as to expeditiously interface with the work of other Contractors, and will pursue the project diligently to completion. All Contractors will work in a cooperative manner with Owner and other Contractors.
- C. Contractor shall appoint an overall Project Manager acceptable to Owner, with skills and experience deemed appropriate by the Owner for the scope and size of the project. Project Manager shall be responsible for the scheduling of all Contractor resources and attending all project meetings. Upon notification of Bidder being considered a finalist, the Bidder shall submit professional resume of proposed Project Manager within forty-eight (48) hours.
  - 1. Project meetings shall be conducted at Owner's selected and identified location weekly and at Owner's and/or Designer's discretion.
  - 2. Within five (5) days of Notice to Proceed (issuance of a Purchase Order by the Owner), Contractor's Project Manager shall provide to the Owner a critical flow path in the form of a "Gantt Chart" (or equivalent) indicating the proposed sequence of events and approximate beginning and completion dates in accordance with, compliance to, and coordinated with requirements herein.
  - 3. Changes of the Project Manager during the project shall not be acceptable without prior written approval from the Owner.
  - 4. It is the responsibility of the Contractor's Project Manager to schedule work, work out issues, ensure that all required products and services are delivered according to schedule and attend to any other matters required by the Owner in the interest of professional and timely completion of the project.
  - 5. The appointed Project Manager, or a designee acceptable to the Owner, shall be in attendance of all project meetings throughout the term of the project. Failure to do so may be considered a material breach of contract.

6. After a ten (10) business day notice, the Owner reserves the right to request a new Project Manager, when it appears that, in the Owner's sole discretion, the Project Manager is not fulfilling the full responsibilities of the position. Failure by Contractor to provide adequate Project Manager meeting requirements of the Owner, may result in Contract termination.

### 3.10 CHANGES IN THE WORK

- A. No changes in work with the effect of either increasing or decreasing in the project value shall be made without specific and prior authorization by the Owner and Designer.
- B. Owner, without invalidating the contract and without notice to any surety, may at any time order extra work or make changes by altering, adding to or deducting from the work, the Contract Sum being adjusted accordingly. All such work shall be authorized by a written Change Order approved by Owner and Contract Designer. Upon receipt of such an order Contractor shall promptly proceed with the work involved. All such work shall be executed under the conditions of the original Contract. Owner authorized change order(s) may be issued at any time prior to Contract close out.
- C. When so directed, Contractor shall promptly submit an itemized estimate and a unit price for performing or deleting such extra or changed work as may be contemplated. Any extensions or reductions of the contract time associated with extra or changed work shall be identified at the time Contractor submits such documentation.
- D. At the Owner's discretion, adjustments in the Contract Sum shall be determined by one or more of the following methods:
  1. By mutual acceptance of a lump sum cost, including overhead and profit, itemized and supported by sufficient substantiating data to permit evaluation.
  2. By unit prices stated in the Contract Documents including, but not limited to, Schedule of Values.
  3. By unit prices mutually agreed upon.

### 3.11 PAYMENT REQUESTS AND PAYMENTS

- A. Contractor's invoices shall be submitted monthly in correlation with the Project Schedule indicating percentage of work completed.
- B. All contract and change order invoices shall be sent directly to Contract Designer.

- C. A 10% retainage shall be held back on all payment requests, including, but not limited to hardware, software, change orders and services, until final completion and close out of the project or project phase as determined by Owner and Designer.
- D. Contractors are required to submit all invoices on approved AIA Payment Request Forms or other billing format pre-approved by Contract Designer. Each AIA Payment Request Form shall be accompanied by a properly completed, executed and notarized Waiver of Lien which shall be in a format and contain verbiage approved by Owner.
- E. The Contract Designer and Owner shall process payment requests on a monthly schedule and in accordance with their respective established processes and procedures. Payments will be made by the Owner based only on AIA Request Forms having been previously certified, audited and approved by Contract Designer and accompanied by acceptable Waiver of Lien.

END OF SECTION

SECTION 00 65 00  
CONTRACT CLOSE OUT

PART 1 - GENERAL

1.01 WORK INCLUDED

- A. Provide an orderly and efficient transfer of the completed work to Owner.
- B. Details affecting work of this Section includes but is not limited to all other Sections herein and all related Contract Documents.
- C. Activities relative to Contract close-out are described in, but not limited to, this and other Sections of this document.

1.02 SUBSTANTIAL COMPLETION

- A. "Substantial Completion" shall be defined as:
  - 1. All responsibilities of Contractor for all provisions and requirements of all divisions and sections of complete Contract herein, and as amended, are properly and fully completed, or properly, accurately and acceptably provisioned for.
  - 2. All systems, equipment, facilities, services, programming and/or components required by all divisions and sections of complete Contract are fully operational, acceptable, and useful to the Owner for their intended purposes.
- B. Prior to requesting inspection by Designer to certify Substantial Completion, Contractor shall use adequate means to assure the Work is completed in accordance with the specified requirements and is ready for such inspection.

PART 2 - MATERIALS

2.01 NOT USED FOR THIS SECTION

PART 3 - EXECUTION

3.01 PROCEDURES

- A. Contractor shall submit a written request to Designer indicating they have achieved Substantial Completion of Work.
- B. Within a reasonable time after receipt of the request, Designer will inspect Work to determine status of completion.
- C. Should Designer determine the Work is not substantially complete:

1. Designer promptly will so notify Contractor, in writing giving reasons therefore and providing sufficient details to allow Contractor to make corrective actions.
2. Contractor shall then expeditiously remedy the deficiencies and notify Designer in writing when ready for re-inspection.
3. Designer will re-inspect the Work.
4. Excessive re-inspections of Work may result in fees being assessed Contractor.

D. Should Designer concur the Work is substantially complete:

1. Designer will prepare a letter of Substantial Completion.
2. Designer will submit the letter to Owner and Contractor.
3. Contract shall be deemed "Closed Out" for retainage purposes.
4. Final Acceptance of the system shall be deemed complete.

END OF SECTION



SECTION 27 51 16  
PUBLIC ADDRESS & PROGRAM SYSTEM

PART 1 - GENERAL

1.01 DESCRIPTION OF PROJECT

- A. Work described in this specification section pertains to a Public Address System component upgrades across the district. Work shall include, but not be limited to public address head end equipment, amplifier(s), cabling, replacement and additional ceiling and/or wall speakers, interface units and all other components and services required for a full and operational system.
- B. Owner desires to replace systems currently in operation and serving indicated locations with new and more maintainable technology.
- C. Contractor shall propose a system to be installed and connected to the owner's existing infrastructure where possible and replace existing infrastructure if it is inadequate to perform the specified functions.
- D. All head-end equipment shall be installed and/or relocated to the Owner's Main Distribution Frame (MDF).
- E. The Contractor shall design, engineer, configure, supply, connect, test, document, train Owner representatives and warrant a fully operational and compliant system, complete and with full functionality as specified herein.
- F. Contractor shall coordinate their installation with other communication systems, contractors, Designer and the Owner as is appropriate.

1.02 WARRANTY

- A. Complete installation shall be fully functional and free from defect and/or failure for a period of three (3) years. Any replacement, upgrade or fix, including labor for any non-conforming or non-operational part of the system shall be fixed and/or replaced at no cost to the Owner.
  - 1. Owner shall be provided full operation of system functions and features during the complete warranty period incurring absolutely no costs during that time.
- B. Manufacturer's warranty shall be provided for all components of the system.
  - 1. Any paperwork and/or submittals required by individual manufacturers for compliance with the standard and/or applicable extended warranty programs shall be provided and submitted for approval by the Contractor.

2. Contractor shall submit all paperwork, apply for warranty or extended warranty certification, and provide a Certificate of Warranty or Extended Warranty as may be applicable from the manufacturer prior to project closeout.
- C. On site services provided under the warranty shall be performed by personnel or representatives of Contractor as herein defined and located within physical proximity to provide response levels deemed acceptable to Owner.
- D. Contractor shall provide the following response times for all malfunctioning equipment:
  1. Four (4) hours or less for matters that render twenty percent (20%) or more of the system users unable to maintain normal productivity.
  2. Two (2) business days for matters not meeting the above criteria.
  3. Response time shall be measured from the time Contractor is notified by Owner to the time work is begun to resolve the matter.
- E. Bidder shall provide current monthly maintenance/service contract pricing for recommended programs for all equipment following the specified and included period as additional information. This information will be considered by Owner and Designer as part of the bid evaluation process.
- F. System Warranty shall commence on date of substantial completion as certified by Designer and provided for herein. Delivery to work site of materials, connection of circuits, turn-up of system, physical removal from packaging, issuance of Contractor documents including, but not limited to invoices and/or packing slips, or any event or documentation, not specifically provided for herein, shall have no effect on Warranty or System Acceptance by Owner and/or Designer.

#### 1.03 STORAGE OF MATERIALS

- A. All materials shall be secured when not in use by the Contractor.
- B. It shall be the Contractor's responsibility to secure all equipment including material to be installed as part of the contract. No changes shall be made to the contract due to loss or theft of equipment and/or materials not officially accepted by the Owner.
- C. Formal receipt of the materials shall not be completed by the Owner until completion of project closeout. The Contractor shall be responsible for all equipment until time of closeout as provided for herein.

#### 1.04 SUBMITTALS

- A. Submittals shall consist of, but not be limited to, technical cut sheets and detailed information pamphlets on all components of the system to be installed. All cut sheets and submittals shall be distinctly marked to highlight the actual part number of the item being submitted for approval with Bid Proposals.
- B. Shop drawings and diagrams shall be submitted by Bidder for approval by Designer with Bid Proposals.
  - 1. Shop drawings and diagrams shall show all data relating to structural, electrical, wiring, cross connect, interconnect, equipment arrangement/layout, and any other information deemed significant by the Designer.
  - 2. No work constituting final installation shall be commenced until after approval of shop drawings by Designer.
- C. Contractor shall provide proof of manufacturer support by photocopy of certification and letter of support from major component manufacturers for this specific project with Bid Proposals.
- D. Equipment or material installed for this project that does not have an approved submittal associated with it, will be removed and replaced with acceptable equipment or material as defined by the Designer. All replacement costs including, but not limited to material and labor, shall be the sole responsibility of the Contractor.
  - 1. The Owner and/or Designer may notify Contractor of any offending situations under this provision allowing Contractor up to forty-eight (48) hours to correct the situation prior to taking other corrective action.
  - 2. The Owner reserves the right to replace unapproved materials and deduct the costs of doing so as defined herein from any amounts that may be due, or become due Contractor.
- E. The Contractor shall submit within five (5) calendar days after the Notice to Proceed, a schedule that reflects the sequence of activities of the contractor's approach to the execution of and completion of the work. The schedule shall be broken into work areas to provide for a clear identification of the planned progress of the work. Included in the schedule will be a list of tasks with list of deliverables and the percentage of work completed. This schedule shall coincide with progress payments applications dates and projected amounts. All durations shown will be in working days. The timeframe described in the Contractor's Schedule shall represent the Contractor's plan for organizing, directing, managing, controlling, staffing and executing the work required by the Contract Documents. Owner will rely on such schedules to coordinate and

otherwise plan related work of Owner personnel, other separate contractors, or the Owner's routine daily work.

#### 1.05 REFERENCE SPECIFICATIONS

- A. All work, products, and materials shall conform with the following standards as applicable for the intended use:
  - 1. EIA/TIA Commercial and Administration Standards
  - 2. NEC
  - 3. IEEE 802
  - 4. IETF RFCs
  - 5. FCC Emissions Ratings
  - 6. UL
  - 7. MOSHA Safety Standards

#### 1.06 CONTRACTOR

- A. The Contractor shall accept complete responsibility for the installation, certification and support of the system. Contractor shall be an authorized vendor of all major components.
- B. All work shall be performed and supervised by Project Managers, Engineers and/or Technicians who are qualified to install Voice Communication System and perform related tests as recommended by the manufacturer and in accordance with the manufacturer's best practices and methods.
- C. Project Managers, Engineers and Technicians employed on this project shall be properly and fully trained and qualified by the manufacturer on the installation and testing of the equipment and systems to be installed.
- D. The Contractor shall have a proven track record in Public Address System configuration and installation. This must be shown by the inclusion of references of at least three (3) projects involving the installation of similar systems completed by the Contractor in the prior two (2) years on unaltered forms with the sealed Bid Proposal as provided herein.

### PART 2 - PRODUCTS

#### 2.01 MANUFACTURERS

- A. Manufacturer of major components of the included Public Address / Paging system shall be known and leading entity in the relevant communications field, and shall have been designing, manufacturing and installing similar systems for a period of no less than three (3) years.

- 1. Acceptable Manufacturers

- a. ATLASIED
- b. BOGEN
- c. CAREHAWK/DUKANE
- d. MITEL
- e. TELECOR
- f. VALCOM

- B. System manufacturer shall support a centralized management software instance to collectively and centrally manage all speakers and all buildings throughout the scope of the project. Individually configured, managed and controlled systems per facility with no central management and control will not be favorably considered.

- 2.02 Supply most current version of all products provided.

- A. Prior and/or old versions of products, unless specifically approved and documented by Designer and/or Owner shall not be acceptable.
- B. In cases where a newer version of hardware or software is available at the time of installation, Contractor shall request clarification from Designer on which version is to be used.

- 2.03 Furnish only new, first-class quality materials and equipment.

- 2.04 PUBLIC ADDRESS AND PROGRAM SYSTEM

- A. A fully compliant public address and program system shall be configured and installed to service Owner's worksites listed herein. Each facility shall be capable of independent administration of all program functions and meet or exceed all functional and performance requirements as established herein.
- B. Administration access to all system functions shall be by both computer via a web browser across the Owner's existing data network and by telephone from the Owner's system provided by others and shall be protected by unique and secure log on.

- C. System administrator shall be capable of complete system back-up and full system restoration from a previously saved configuration.
- D. In the event of a power failure, complete system shall automatically re-initialize and “become active” to the last configuration in use with no human intervention.
- E. New Interior PoE speakers shall be provided in locations identified on provided drawings. Quoted cost must include all cabling and labor to integrate speakers into provided Public Address system.
- F. New weatherproof wide-angle sound dispersion PoE exterior horns and shall be provided in locations identified on provided drawings. Quoted cost must include all parts, cabling and labor to integrate into provided Public Address system. Exterior horns must be collapsible style in protected boxes with painted grill.

G. CENTRAL CONTROLLER

- 1. Central Controller shall provide for distribution of balanced audio that is free from distortion, clear of noise and intelligible.
- 2. Central Controller shall be configured and installed for amplification and distribution of audio programming to all areas of the facility. Owner applications may include, but will not be limited to:
  - a. Emergency alerting including possible building evacuation, shelter in place and/or lock-down.
  - b. System access from remote locations via either telephone and/or web browser to individual buildings for zone paging and/or alerting.
  - c. System access from remote locations via web browser to allow for program changes (i.e. Regular schedule to Snow day).
- 3. Central Controller and all attached devices shall be installed and configured to meet or exceed all of the following requirements:
  - a. Interface to Voice Communication system (phone system) as primary voice input connection.
    - 1. Specific coded authorization shall be required to authenticate any user attempting to broadcast on the system. Codes shall originate by DTMF from voice terminals, and shall be up to four (4) tones (keys) in length.

2. Capable of integrating with existing Mitel phone system over SIP protocol.
- b. Interface to computer data network system over Owner provided Ethernet.
  1. Specific password protected authorization shall be required to authenticate any user attempting to broadcast or modify programming on the system.
  2. Access shall be by standard web browser (MS Edge, Chrome, etc.) and shall not require specific application software be loaded onto access devices.
- c. System shall store pre-recorded schedule for tone generation and interface to Owner's existing time sync (NTP Server) over Ethernet. System shall broadcast school "bells".
  1. Unlimited number of schedules must be supported for each building/facility (half day, normal day, exam schedule, etc.)
- d. System shall store pre-recorded emergency alert messages matching owners existing standard in use at other facilities.
  1. Broadcast of up to six (6) alarm tones, pre-recorded messages or emergency voice messages to all or selected areas of the facility.
  2. Specific alarm tones shall be given priority over any other broadcast material.
- e. System shall provide two (2) additional contact closures (to be interfaced to by Others), which when activated result in broadcast of predefined alarm tone(s) to predefined zone(s).
- f. Up to Six (6) zones shall be provided for. Zones shall be easily modified using the web browser interface.
- g. A suitable speech amplifier(s) shall drive the speaker lines.
  1. Common area zone amplifiers may consist of multiple power amplifiers connected in series.
- h. Each site shall contain one (1) physical external interface in addition to telephone (primary voice interface) for connection to any one of a variety of music sources (including, but not limited to MP3, tuner, etc.) to be broadcast to designated zones or groups of zones. This

interface shall be 3.5mm audio jack and located in building central office to provide for building administrator convenient access.

- i. System shall automatically generate and transmit a pre-announcement attention signal prior to any voice broadcast.
  - j. Feedback elimination precautions or system features shall be employed to suppress any audio coupling between and audio source and nearby speaker.
  - k. All building-based equipment shall be mounted in Owner designated rack in PA head end location #2 as identified on the provide diagram. Contractor shall extend existing cable connections from existing PA/Intercom location as needed to extend discreet zones for amplification.
  - l. Gain control of alarms and announcements shall be individually configurable to different volume levels.
  - m. Amplifiers provided shall include internal overload and shutdown protection.
  - n. Amplifiers provided shall have anti-clipping protection.
  - o. The unit shall operate from standard owner supplied 110 VAC power outlets within six feet (6') of required rack mounting in normal ambient climatic conditions for office communication closets.
4. Program System shall provide for, but not be limited to:
- a. Integrated calendar for storage of various different programs to be scheduled
    - 1. Normal Day
    - 2. Half Day
    - 3. Early Release Day
    - 4. Exam Day
    - 5. Delayed Start Day
  - b. Six (6) different tones/chimes/bells to signify class start/end/tardy etc.
  - c. Password protected unique User ID access to the system by individual building principals and/or secretaries to manage and administer



program calendars. Such credentials shall be integrated with the Owner's existing Microsoft Active Directory for common login control across the network.

- d. Separate program databases for each facility that can be manipulated/managed by that facility's specific administrative team.
5. Preference will be given to system architectures where a common central server can be used from the district's data center for control and management of both building operations the entire system.

#### H. ADMINISTRATION PHONE

1. Contractor shall provide an install an admin phone to access all paging functions. Administration phone shall be installed in location identified on provided diagram. Contractor shall include all necessary cabling, equipment, accessories and labor for a fully functional system.

#### I. INTERIOR POWER OVER ETHERNET (PoE) IN-CEILING SPEAKERS

1. Acceptable Manufacturer(s)
  - a. ADVANCED NETWORK DEVICES
  - b. ATLASIED
  - c. BOGEN
  - d. CAREHAWK/DUKANE
  - e. TELECOR
  - f. VALCOM
  - g. Or Equal.
2. Interior Speakers shall be provided in corridors and/or other common public areas of the facility as identified on provided drawings and as provided for herein. See locations as identified on drawings.
  - a. Final speaker placement shall be adjusted as needed for appropriate audio intelligibility, volume levels and ceiling obstructions and/or conditions and shall remain the responsibility of the contractor.
3. Speakers shall provide balanced intelligible sound that is free of distortion, free from noise and evenly dispersed.
4. Ceiling Mounted 8" high-efficiency speaker

5. Frequency response – 60 Hz – 17kHz
  6. Built-in 8 W Class D amplifier
  7. PoE IEEE 802.3af/802.3af Type 1 Class 3 (max 12.95 W)
  8. Support for SIP integration with Voice over IP (VoIP) systems.
  9. Full multicast and broadcast support.
  10. Speaker baffles shall be installed with hardware matching the color of the baffle. Baffle color shall match finished ceiling color.
  11. All baffles shall be flush against the ceiling and enclosures shall be fully supported. All recessed speakers shall include a back box.
  12. All devices, including but not limited to, amplifiers, brackets, baffles, and Control Unit shall be mounted square and plumb and as recommended by the manufacturer and required by Owner and Architect.
  13. Each speaker shall be connected to central equipment using standard category 6 ethernet cabling provided by Contractor. Contractor shall supply ethernet patch cables for each speaker to extend provided cabling to optimal speaker location, cable shall not exceed 30'. Cable color shall be coordinated with Owner and/or designer.
  14. Each speaker shall be volume adjustable at installation to accommodate specific acoustical properties of the intended coverage area.
  15. Coordinate final placement of speakers with Designer and/or Owner
    - a. Area of coverage will be such that calls will be clearly audible in the operating area and surrounding space.
  16. Contractor shall include all parts and accessories for a fully functional and securely installed system using manufacturer and industry best practices.
  17. System shall produce audio at a peak level of approximately eighty-five (85) dBA at probable listener's positions.
- J. INTERIOR POWER OVER ETHERNET (PoE) WALL MOUNTED SPEAKERS

1. Acceptable Manufacturer(s)
  - a. ADVANCED NETWORK DEVICES
  - b. ATLASIED

- c. BOGEN
  - d. CAREHAWK/DUKANE
  - e. TELECOR
  - f. VALCOM
  - g. Or Equal.
2. Interior Speakers shall be provided in corridors and/or other common public areas of the facility as identified on provided drawings and as provided for herein. See locations as identified on drawings.
    - a. Final speaker placement shall be adjusted as needed for appropriate audio intelligibility, volume levels and ceiling obstructions and/or conditions and shall remain the responsibility of the contractor.
  3. Speakers shall provide balanced intelligible sound that is free of distortion, free from noise and evenly dispersed.
  4. Ceiling Mounted 8" high-efficiency speaker
  5. Frequency response – 60 Hz – 17kHz
  6. Built-in 8 W Class D amplifier
  7. PoE IEEE 802.3af/802.3af Type 1 Class 3 (max 12.95 W)
  8. Support for SIP integration with Voice over IP (VoIP) systems.
  9. Full multicast and broadcast support.
  10. Each speaker shall include necessary back box, accessories, and cables for a complete installation.
  11. All devices, including but not limited to, amplifiers, brackets, baffles, and Control Unit shall be mounted square and plumb and as recommended by the manufacturer and required by Owner and Architect.
  12. Each speaker shall be connected to central equipment using standard category 6 ethernet cabling provided by Contractor. Contractor shall supply ethernet patch cables for each speaker to extend provided cabling to optimal speaker location, cable shall not exceed 30'. Cable color shall be coordinated with Owner and/or designer.
  13. Each speaker shall be volume adjustable at installation to accommodate specific acoustical properties of the intended coverage area.

14. Coordinate final placement of speakers with Designer and/or Architect.
  - a. Area of coverage will be such that calls will be clearly audible in the operating area and surrounding space.
15. Contractor shall include all parts and accessories for a fully functional and securely installed system using manufacturer and industry best practices.
16. System shall produce audio at a peak level of approximately eighty-five (85) dBA at probable listener's positions.

K. EXTERIOR POWER OVER ETHERNET (PoE) COMPRESSED HORNS

1. Acceptable Manufacturer(s)
  - a. ADVANCED NETWORK DEVICES
  - b. ATLASIED
  - c. BOGEN
  - d. CAREHAWK/DUKANE
  - e. TELECOR
  - f. VALCOM
  - g. Or Equal.
2. Exterior Speakers shall be provided at exterior common public areas of the facility as identified on provided drawings and as provided for herein. See locations as identified on drawings.
  - a. Final speaker placement shall be adjusted as needed for appropriate audio intelligibility, volume levels and ceiling obstructions and/or conditions and shall remain the responsibility of the contractor.
3. Horns shall meet or exceed the following requirements:
  - a. Built-in 8 W Class D amplifier
  - b. PoE IEEE 802.3af/802.3af Type 1 Class 3 (max 12.95 W)
  - c. Support for SIP integration with Voice over IP (VoIP) systems.
  - d. Horns shall be installed in impact-resistant aluminum case.
  - e. Horns shall be IP54 rated.

- f. Frequency response of 600Hz – 14 kHz.
- 4. Each speaker shall be connected to central equipment using standard category 6 ethernet cabling provided by Contractor. Contractor shall supply ethernet patch cables for each speaker to extend provided cabling to optimal speaker location, cable shall not exceed 30'. Cable color shall be coordinated with Owner and/or designer.
  - a. Contractor shall include all parts and accessories for a fully functional and securely installed system using manufacturer and industry best practices.
- 5. Final placement of exterior horns shall be carefully coordinated with Designer and Architect.

#### L. EXISTING PAGING SPEAKER CABLING RECONFIGURATION

- 1. All cabling in PA head end location #2, as shown on appendix A, shall be reworked, reconfigured and consolidated above finished ceiling in office area.
  - a. Contractor shall supply an appropriately sized, steel, lockable enclosure to house and protect reworked speaker cabling.
  - b. Contractor shall carefully label, and extend if necessary, all cabling to provided metallic enclosure.
  - c. Contractor shall extend and connect speaker cabling to PA head end location #1 according to supplied zoning plan.
  - d. Contractor shall fully remove existing wall cabinet and dispose of.
  - e. Owner shall be responsible for all patching, painting and repair of remaining cabling penetrations into PA head end location #2.

#### M. EXISTING CLASSROOM CALL BUTTON RECONFIGURATION

- 1. Contractor shall remove ALL existing intercom call buttons and provide to Owner for disposition. Remaining call button cabling and raceway shall be left in place for future use. Remaining cabling shall be reworked as necessary to allow existing analog speakers and cabling to function as a one-way paging system as specified herein. Contractor shall provide and install a color matched blank in all removed call button locations.

#### N. EXISTING PAGING SPEAKER ZONE RECONFIGURATION

1. Existing analog intercom system cabling shall be converted to provide one-way public address capabilities district wide.
2. Contractor shall provide all labor and materials to reconfigure and rework the following areas to allow independent and discreet addressability:
  - a. ZONES
    1. Middle School Hallways
    2. Middle School Classrooms
    3. EL Hallways
    4. EL Classrooms
    5. Offices
    6. Outdoor
3. If spaces are currently integrated into existing paging zones, Contractor shall be responsible for reconfiguration of exiting paging zone including all materials and labor to allow continued full functionality.

#### O. COMPONENT INTERCONNECTION

1. All wiring not installed in conduit shall be plenum type cable and shall be so identified with continuous marking.
2. No wiring installed shall be visible unless specifically and individually approved by Owner and Designer. All wire that traverses open areas shall be installed in metal raceway of appropriate size for the number of wires installed plus twenty percent more.
  - a. All metal raceway shall be ordered in standard colors to as closely match the environment in which it is being installed as possible.
  - b. Metal raceway shall be carefully and neatly installed, to meet manufacturer recommendations and standards for professional installation.
  - c. Sharp edges, gaps in the covering or corners or other unprofessional workmanship characteristics of installation will not be acceptable.
3. Wiring color shall remain the same throughout the system. Colors used for coding shall be as directed by the system manufacturer, Owner and Architect.

4. Wire shall be copper.

- P. Owner shall provide adequate ethernet ports in the designated MDF and IDF locations for the connection of all devices required for system operation. Contractor shall remain responsible for all connection to switches, including, but not limited to patch cables at both the closet and device location. All patch cable colors must be coordinated with Owner to match Owner site standards.

## 2.05 ALLOWANCES

- A. Contractor shall include allowances for equipment and/or other contract service reimbursements as required below in base bid lump sum amount(s). Equipment and/or contract services shall be provided and sourced at Owner's discretion and convenience with full cooperation by Contractor and paid for from successful bidder's contract in the amount(s) provided for herein. Any allowance amount proving to be excessive for the intended equipment and/or contract services shall be credited to the Owner against contract payment requests.
1. Allowance shall be made in the amount of \$1,500.00 for contract services related to Owner directed infrastructure upgrades, installation and configuration.

## PART 3 - EXECUTION

### 3.01 PREPARATION

- A. Contractor shall conduct detailed walk-through examination verifying equipment and material locations as well as mounting and placement requirements prior to commencement of other installation activities.
1. This examination shall include, but not be limited to, documenting the following information for each site of work:
- a. Document existing PA head-end location on building diagrams provided by Owner.
  - b. Document existing PA zones programmed.
  - c. Document connections of speakers and amplifiers to the system head-end.
  - d. Identify all existing amplifier locations on building diagrams provided by Owner.
  - e. Identify all existing speaker locations on building diagrams provided by Owner.

- f. Identify existing installed speakers that are not working properly and/or are not acceptably intelligible for normal speech.
  - g. Measure and document the audio level (db) of existing exterior speakers at a distance of 100' and an offset angle of 45 degrees.
- 2. Upon completion of the examination documentation, this information shall be compiled into a draft report and presented to the Owner and Designer for approval.
- B. Contractor shall ensure all submittals and shop drawings have been provided to, and approval has been obtained from Designer prior to commencement of any final installation activities.

### 3.02 INSTALLATION

- A. Contractor shall be familiar with the environment where work will be done as specified herein.
- B. Work Areas shall be cleaned at the end of each day. All debris shall be cleared, removed and disposed of in an approved container for the site. All equipment and tools shall be removed from common areas and stored in approved, secure storage locations. Any work that may impede the general use of the space and cannot be removed shall be flagged and cordoned off by the Contractor prior to their departure.
- C. All equipment and materials shall be installed in a neat and workmanlike manner. Best practices installation principles shall be used throughout the project.
- D. The Contractor shall furnish, set in place, and install all equipment necessary for a fully compliant and operational system as specified herein. The installation process includes, but is not limited to the following:
  - 1. Inventory receipt of all components and equipment.
  - 2. Storage of all equipment and components until such time those items are installed according to the specifications.
  - 3. Transport equipment to the Owner's installation location(s).
  - 4. Assemble, install, configure and test all equipment and components, maintaining accurate inventory records and status documents and discarding packaging.
  - 5. Collect all information necessary to accurately program all sets and/or system devices to the Owner's intended use and need.



6. Complete end user and system administrator training programs as specified herein.
7. Work shall be performed to meet local codes and industry standards, including, but not limited to:
  - a. Adequate gas tube protection for outside plant cable connections.
  - b. Grounding and Bonding.
8. Work includes extending cable bundles, as required, to Owner identified equipment installation locations at all locations.
9. Owner will provide contractor with permanent asset tags for each system component that exceeds \$100.00 in value. Equipment installed in wiring closets will have district asset tags installed in a prominent location. Assets installed in public areas, such as staff desktop devices, will have asset tags installed in discreet but consistent area of each asset.
  - a. Asset number, device/component description, serial number, make, model, part-number, site, room number/name and any other critical asset information shall be recorded for Owner.
- E. Contractor shall program all bells, alerts and schedules into the system to support initial operations. No Owner programming shall be required for successful system cut over in any building.
- F. Sites of Work:
  1. JKL Bahweting Anishnabe School  
1301 Marquette Ave  
Sault Ste. Marie, Michigan 49783
- G. It shall be the responsibility of the Contractor to repair or replace any damage done to the structure of finishes in the building by the Contractor. If in the course of work, Contractor damages, marks or misplaces any surfaces or access plates/panels the Contractor shall repair and/or replace the surface, plate or panel to the original condition.
  1. Final determination as to the damage condition and/or repair/replacement fitness of any surface, plate or panel shall be the sole responsibility of the Designer.
  2. The building and work area shall be returned to its original condition prior to final sign off of the project.

- H. Following installation and prior to final acceptance of the system, Contractor shall conduct follow-up interviews with Owner identified administrators and staff to review system functionality, suitability and confirm feature and program fitness for Owner applications.
  - 1. Follow-up interviews shall be fully documented by Contractor and submitted to Owner for approval.
- I. Contractor shall collect, consolidate and otherwise prepare for shipping or disposal Owner's existing telecommunications system components, including, but not limited to stations, processors, cards, options, and application servers in a manner acceptable to, and consistent with, Owner's intended disposition of the items.

### 3.03 TESTING

- A. In an effort to ensure a smooth cut-over to the new system Contractor shall submit to a thorough testing process as defined herein prior to cut-over. Testing shall include, but not be limited to the following:
  - 1. 100% of all speakers
  - 2. Paging and Public Address programming
- B. Prior to requesting testing by Designer, the Contractor shall use adequate means to assure the Work is completed in accordance with the specified requirements, meets the owner's specific application requirements and is ready for functionality and integrity testing.

#### C. PROCEDURES

- 1. Prior to system cut-over, Contractor shall submit a written request to Designer indicating they have completed full and final configuration of the system, and are ready to have system integrity and functionality tested.
- 2. Within reasonable time after receipt of request, Designer will provide a test schedule and coordinate testing date(s) with Owner and Contractor.
- 3. Should Designer determine the Work is not acceptably configured or not of adequate integrity:
  - a. Designer promptly will so notify Contractor, giving reasons therefore and providing sufficient details to allow Contractor to make corrective actions.
  - b. Contractor shall then expeditiously remedy the deficiencies and notify Designer in writing when ready for re-testing.

- c. Designer will schedule re-test of the Work.
  - d. Excessive re-testing of Work may result in fees being assessed Contractor.
4. Should Designer and Owner concur the Work is configured properly, and system integrity is as required:
- a. Designer will review Contractors detailed cut-over plan, and upon finding it acceptable issue a memorandum of Testing Completion to Owner and Contractor after which system cut-over can proceed.

### 3.04 DEMOLITION

- A. Contractor shall ensure all components of the old system are removed and properly disposed of. Owner will identify any materials it intends to maintain for future use. All other materials shall be removed from sites by Contractor. Such material shall include, but not be limited to equipment, mounting hardware, cables, cabinets and all other supporting items.
- B. Contractor shall ensure all areas of equipment removal are restored to a safe and professional environment. This work shall specifically exclude patching, painting and electrical work. Patching and painting shall remain Contractor responsibility in locations where the highest degree of care is not taken to remove items without creating additional damage to the surfaces or finishes.

### 3.05 DOCUMENTATION

- A. Contractor shall, throughout the completion of the project, provide Owner a file storage system that shall include all necessary equipment (file drawers, folders, dividers, etc.), to contain all as-built drawings, owner's manuals of all equipment installed, warranty and maintenance information and other information the Contractor, Designer and/or Owner deem necessary.
- B. Contractor shall be responsible for providing thorough, timely documentation on all hardware, software. Documentation shall include, but not be limited to:
  - 1. Equipment description.
  - 2. Equipment make.
  - 3. Model number.
  - 4. Software release.
  - 5. Date installed.

6. Manufacturer's warranty.
7. Maintenance contract terms.
8. Verification of maintenance contract engagement.
9. Telephone numbers for service and support.
10. Detailed technical support and service procedure instructions.
11. All product (hardware and software) manuals and manufacturer supplied documentation, including, but not limited to owner manuals, system administrator manuals and configuration guides. Where number of duplicate copies for particular manual or documentation item could be reasonably considered excessive, Contractor shall request direction from Owner and Designer.
12. Photocopy of original invoice listing make and model for all components and equipment from individual manufacturer(s), distribution source(s), or authorized agent(s) to establish manufacturer warranty start date for potential use after end of contract warranty provisions.
13. As built drawings for each building.
14. Dial Plan Report.
15. Complete inventory of installed station hardware and system software. Hardware inventory shall include set type (model number), Ethernet MAC address, station serial number, extension number, station user's name, location, software groups (including call pick-up, intercom, class of service, speed call, etc.).

### 3.06 TRAINING

- A. Training shall be conducted at the Owner's discretion and at times and places convenient to Owner personnel. Prior to any training being conducted, Contractor shall provide Owner and Designer with detailed training syllabus and schedule for proposed training event. Compliant syllabus and schedule shall be provided at least ninety-six 96 hours in advance. Owner reserves the right to postpone training if syllabus and/or schedule submitted are deemed inadequate. Training shall not be conducted until such time a syllabus and schedule submitted by Contractor are found to be acceptable to Owner.
- B. Contractor shall provide training for the Owner designated system user(s). Owner shall designate up to four (4) administrators to be trained in each building where a system is installed. Training shall be a minimum of One (1), one (1) hour session in length, repeated in each building where a system is

installed, at the convenience of the Owner personnel, and of sufficient duration to satisfactorily complete training on all system administration functions including, but not limited to:

1. Zone and building public address functions.
  2. Placing intercom calls in the system.
  3. Emergency alerts.
  4. Program manipulation.
- C. Contractor shall provide training for the Owner designated system administrator(s). Owner shall designate up to two (2) administrators to be trained. Training shall be a minimum of One (1), four (4) hour session in length, at the convenience of the Owner personnel, and of sufficient duration to satisfactorily complete training on all system administration functions including, but not limited to:
1. Basic trouble shooting of the installed system and components including diagnostic and problem resolution actions.
  2. System back-up and restore functions and procedures for all system parameters and configurations.
  3. Device additions and changes as well as device reconfiguration.
  4. Program manipulation.

### 3.07 SCHEDULE, MEETINGS AND PLANS

- A. Sequence of operations shall be established by the Contractor within the guidelines established by the Owner, documented herein, required by Designer, Architect and/or Construction Manager and as required to meet schedules.
- B. Schedule
1. Final Vendor Presentations: Week of June 6, 2022
  2. Contractor Chosen: Week of June 20, 2022
  3. Work Commences: July 1, 2022
  4. Substantial Completion: August 1, 2022
  5. Project Close-out: October 1, 2022

- C. Planned sequence of operations shall be established by the Contractor within the guidelines established by the Owner, as required herein and as required to meet schedules.
- D. All work shall be coordinated with Owner's construction manager on site.
- E. Project progress meetings shall be held, but not limited to, weekly at a site and time identified as convenient for Owner and as required herein. Meetings will be attended as required herein.

END OF SECTION



## Appendix A

