

SECTION A SOLICITATION / OFFER / ACCEPTANCE

1. Solicitation No. OHND-20-05-AKR	2. Date Issued 8/10/2020	3. Award No.
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4. Issued By: U.S. District Court, Northern District of Ohio 801 W Superior Ave, Room 2-141, Cleveland, OH 44113	5. Address Offer To (if other than Item 4):
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SOLICITATION

6. Offers in original and one copies for furnishing the required services listed in Section B will be received at the place specified in Item 5, or if handcarried, in the depository located:

until 5:00 pm local time Sept. 18, 2020.
(hour) (date)

7. For Information call:	
a. Name Shari Vance, Contracting Officer	b. Telephone (216) 357-7073

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OFFER

8. In compliance with the above, the undersigned agrees, if this offer is accepted within _____ calendar days (365 calendar days unless a different period is inserted by the offeror) from the date for receipt of offers specified above, to furnish any or all items upon which prices are offered at the price set opposite each item, delivered at the designated point(s), within the time specified in the schedule.

9. DISCOUNT FOR PROMPT PAYMENT	10 CALENDAR DAYS %	20 CALENDAR DAYS %	30 CALENDAR DAYS %	CALENDAR DAYS %
10. ACKNOWLEDGEMENT OF AMENDMENTS <i>(The offeror acknowledges receipt of amendments to the SOLICITATION for offerors and related documents numbered and dated:</i>	AMENDMENT NO.	DATE	AMENDMENT NO.	DATE

11. NAME AND ADDRESS OF OFFEROR	14. <input type="checkbox"/> AWARD Your offer on Solicitation Number _____, including the additions or changes made by you which additions or changes are set forth in full above, is hereby accepted as to the items listed above and on any continuation sheets.
12. Telephone No. (Include area code)	
13A. NAME AND TITLE OF PERSON AUTHORIZED TO SIGN OFFER <i>(Type or print)</i>	15A. NAME OF CONTRACTING OFFICER
13B. Signature	15B. UNITED STATES OF AMERICA
13C. Offer Date	15C. DATE SIGNED
	BY _____ <i>(Signature Of Contracting Officer)</i>

PART I –SOLICITATION SPECIFICATIONS

SECTION A – SPECIFICATIONS / STATEMENT OF WORK

A.1 BACKGROUND

The United States District Court for the Northern District of Ohio is seeking **OPEN MARKET QUOTES** to replace the existing audio system in Courtroom 442 with a new audio and video presentation system.

The Court House to be upgraded is located at:

The *John F. Seiberling Federal Building and United States Court House* Courtroom 442
2 South Main Street, Akron, Ohio 44308

Details regarding system requirements can be found in the attached design report.

SECTION B – DELIVERIES AND PERFORMANCE**B.1 CLAUSE B-5, CLAUSES INCORPORATED BY REFERENCE (SEP 2010)**

This contract incorporates one or more clauses by reference, with the same force and effect as if they were given in full text. Upon request, the contracting officer will make their full text available. Also, the full text of a clause may be accessed electronically at this address:

<http://www.uscourts.gov/procurement.aspx>.

CLAUSE NUMBER	TITLE	DATE
2-25A	Delivery Terms and Contractor's Responsibilities	JAN 2003
2-30A	Time of Delivery	APR 2013
2-35	F.O.B. Destination, Within Judiciary's Premises	JAN 2003
2-60	Stop-Work Order	JAN 2010
7-200	Judiciary Delay of Work	JAN 2003

B.2 DELIVERY SCHEDULE AND LOCATION

- (a) Delivery and Installation shall be subject to the Court's docket and courtrooms may be worked on simultaneously or sequentially
- (b) A post-award teleconference will be held **October 13th, 2020**
- (c) Installations will be completed no later than **May 10th, 2021**
- (d) Project closeout shall be finalized no later than **June 30th, 2021**

B.3 DELAY OF DELIVERY SCHEDULE BY COURT

The Court reserves the right to delay any installation, at no additional cost to the judiciary, provided that the Contractor receives written notice from the Contracting Officer (15) calendar days prior to the scheduled installation date, or within (30) calendar days after award, whichever is later, or by any date which is mutually agreed to by the Court and the Contractor.

B.4 SCHEDULING OF TESTING, INSTALLATION, AND TRAINING

- (a) The Contractor shall coordinate the installation of the systems to be compatible with the courtroom schedule, the work of the COTR, and the overall construction completion schedule. The Contractor shall attend any regularly scheduled progress meetings. Project completion, including all training to be complete as scheduled with the COTR. After normal business hours and weekends should not be relied upon to meet completion deadline. Contractor to notify COTR immediately if installation complications arise which could complicate scheduled completion.
- (b) The Contractor shall assemble, install, test, and train Court personnel in the use of the systems in compliance with the schedule set forth in **B.5**. Any changes to this schedule shall be submitted for approval and discussed with the CO and the COTR.
- (c) The Contractor shall assemble and test all equipment to verify proper operation before shipping to the courthouse. Testing and shipping shall be coordinated with the COTR.

(d) The Contractor shall provide operating personnel with adequate training on the completed system,

B.5 SCHEDULE – TIMELINE, INSTALLATION AND PAYMENTS

This schedule is dependent on chambers availability and may vary by number of courtrooms awarded.

PROJECT MILESTONE	DATE	PAYMENT SCHEDULE
Bid package release	August 10, 2020	
Contractor Site visit	August 24, 2020	
Contractor bids due to Court	September 18, 2020	
Bid Review by Court	September 20 – 23, 2020	
Contract Award	September 24, 2020	
Post Award Teleconference- Submit background information	October 13, 2020	
Draft Submittal due from Contractor	November 16, 2020	
Submittal Plan Review	November 17 - 20, 2020	
Revised Submittals due from Contractor	December 4, 2020	
Acceptance of Final Design Plan	December 18, 2020	20%
Kick off Meeting	January 19, 2021	
Installation Period	January 19 – May 10, 2021	
Training/System Acceptance	May 10, 2021	70%
Acceptance of Closeout Deliverables due to Court	June 30, 2021	10%
On site Parts and Labor Warranty at no additional cost to Court	1 year form system acceptance	

*NOTE: If Optional Courtrooms are awarded on this contract, the Court will issue payment of 70% of the total cost per option upon completion of each optional Courtroom that is awarded.

Installation will be a two consecutive week window in the installation period.

Court Holidays on:

October 12th, 2020

November 11th, 2020

November 26th, 2020

December 25th, 2020

January 1st, 2021

January 18th, 2021

February 15th, 2021

May 31th, 2021

SECTION C – CONTRACT ADMINISTRATION DATA

C.1 CLAUSES B-5, CLAUSES INCORPORATED BY REFERENCE (SEP 2010)

This contract incorporates one or more clauses by reference, with the same force and effect as if they were given in full text. Upon request, the contracting officer will make their full text available. Also, the full text of a clause may be accessed electronically at this address:

<http://www.uscourts.gov/procurement.aspx>.

CLAUSE NUMBER	TITLE	DATE
7-1	Contract Administration	JAN 2003
7-5	Contracting Officer's Technical Representative	APR 2013
7-125	Invoices	APR 2011

C.2 CONTRACTING OFFICER

The Contracting Officer for this Contract is:

Shari Vance
U.S. District Court – Northern District of Ohio
Carl B. Stokes Federal Courthouse
801 W. Superior Avenue, Room 2-141
Cleveland, Ohio 44113
E-mail: sharon_vance@ohnd.uscourts.gov
Phone: (216) 357-7073

C.3 BILLING AND PAYMENT TERMS

Contractor invoice(s) shall be submitted in arrears as a percentage of total cost and shall provide an account summary showing all services, features, and items on the account. Invoice(s) may be submitted upon the Court's acceptance of all products, services, and items as ordered and/or as rendered according to the payment schedule in section B.5.

Invoices shall be addressed and submitted to:

Shari Vance
U.S. District Court – Northern District of Ohio
Carl B. Stokes Federal Courthouse
801 W. Superior Avenue, Room 2-141
Cleveland, Ohio 44113

C.4 CONTRACTING OFFICER'S TECHNICAL REPRESENTATIVE (COTR)

The Contracting Officer's Technical Representative for this Contract is:

David Zendlo
U.S. District Court – Northern District of Ohio
Carl B. Stokes Federal Courthouse
801 W. Superior Avenue
Cleveland, Ohio 44113
E-mail: david_zendlo@ohnd.uscourts.gov
Phone: (330) 252-6023

C.5 CLAUSE 7-10, CONTRACTOR REPRESENTATIVE (JAN 2003)

The contractor's representative to be contacted for all contract administration matters is as follows: (*contractor completes the information*):

1. Name:
2. Address:
3. Telephone:
4. E-mail:
5. Fax:

The contractor's representative shall act as the central point of contact with the judiciary, shall be responsible for all contract administration issues relative to this contract, and shall have full authority to act for and legally bind the contractor on all such issues.

SECTION D – SPECIAL CONTRACT REQUIREMENTS

D.1 CLAUSE B-5, CLAUSES INCORPORATED BY REFERENCE (SEP 2010)

This contract incorporates one or more clauses by reference, with the same force and effect as if they were given in full text. Upon request, the contracting officer will make their full text available. Also, the full text of a clause may be accessed electronically at this address:

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CLAUSE NUMBER	TITLE	DATE
1-1	Employment by the Government	JAN 2003
7-55	Contractor Use of Judiciary Networks	JAN 2003

D.2 PRICE MANAGEMENT

The Contractor shall agree that during the contract life, the prices set forth herein shall not exceed the Contractor's commercial price list (including applicable commercial discounts) and/or established tariff prices for similar (or identical) facilities, services, and items. If at any time this should occur, the Contractor shall immediately notify the Court's Contracting Officer and offer the lower prices for incorporation into this contract. Similar facilities, services, and items are defined as comparable commercial technical services.

D.3 CONTRACTOR PERSONNEL QUALIFICATIONS AND REQUIREMENTS

- (a) Installation personnel must have received training and have a minimum of (3) years of installation experience for the facilities, services and items proposed.
- (b) Contractor personnel assigned to this contract must be able to communicate effectively in English (verbally and in writing) with Court staff and representatives.
- (c) All Contractor personnel are required to present valid state-issued picture identification upon arrival to the Court's premises to begin project work.
- (d) Contractor personnel shall be properly attired when on-site at a Court location and all dealings with Court staff and representatives shall be businesslike and courteous.
- (e) For the purpose of the overall contract, the Contractor's Project Manager is designated as Key Personnel under this contract and shall be the Contractor's authorized point of contact with the Court's CO and COTR.
- (f) The Contractor's Project Manager shall be a prime Contractor employee who has in depth experience in the type of services and goods required by the contract resulting from this solicitation.
- (g) The Contractor's Project Manager shall be responsible for providing project management oversight during all hours of task order activity for all Contractor personnel. The Contractor's Project Manager also

shall be responsible for formulating and enforcing work standards, signing schedules, and reviewing work discrepancies, and communicating policies, purposes, and goals of the organization to subordinates.

(h) The Court reserves the right to require the change/removal of any Contractor personnel from the contract, without penalty to the judiciary; furthermore, this right of removal may be exercised at any time during the term of the contract.

D.4 NOTIFICATION OF DEBARMENT / SUSPENSION STATUS

(a) During the contract period, the Contractor shall provide immediate written notice to the Contracting Officer in the event of being suspended, debarred, or declared ineligible by any Department or other Federal Agency, or upon receipt of a notice or proposed debarment from another Government Agency, during the performance of this contract.

(b) During the contract period, the Contractor shall provide immediate written notice to the Contracting Officer if the Contractor learns that its certification in response to JPV14, Provision 3-20 (Section K 3) was erroneous when submitted or has become erroneous by reason of changed circumstances.

D.5 TAXES

The Court is exempt from Ohio State Sales Tax and Federal Excise Tax. As such, any contract proposal amount shall not include the cost of any such taxes.

D.6 MEETINGS / CONFERENCES

Technical meetings, post-award/pre-performance conferences, and/or meetings during contract performance, may be necessary to resolve problems and to facilitate understanding of the technical requirements of the contract. Participants at these meetings/conferences shall be members of the Contractor's technical staff and technical representatives of the Court. These meetings/conferences shall be scheduled with the agreement and arrangements made between the CO or their representative and the Contractor. All Contractor costs associated with the attendance at these meetings shall be incidental to the contract and not separately billed.

D.7 GENERAL WORKING HOURS AND GOVERNMENT HOLIDAYS

Normal business/office hours are from 8:00 a.m. to 4:30 p.m. Eastern Standard Time, local time; specific working hours, however, will be identified as required.

The following Government holidays are normally observed by judiciary personnel: New Year's Day, Martin Luther King's Birthday, President's Day, Memorial Day, Independence Day, Labor Day, Columbus Day, Veteran's Day, Thanksgiving Day, Christmas Day, and any other day designated by Federal Statute.

D.8 SECTION 508 COMPLIANCE

- (a) Section 508 of the Rehabilitation Act of 1973 (29 U.S.C. 794d) requires that when federal departments or agencies “develop, procure, maintain, or use” EIT, they shall ensure that the EIT allows federal employees with disabilities to have access to and use of information and data that is comparable to the access to and use of information and data by other federal employees. Section 508 also requires that individuals with disabilities, who are members of the public seeking information or services from a federal department or agency, have access to and use of information and data that is comparable to that provided to the public without disabilities. Comparable access is not required if it would impose an undue burden.
- (b) For further information, refer to:
<http://www.section508.gov/index.cfm?FuseAction=content&ID=12#Telecommunications>
- (c) Solicitation evaluation will be based in part on the proposal responsiveness to the identified Section 508 requirements and considerations for accessibility. The Offeror shall provide proof of conformance with these requirements. The Voluntary Product Accessibility Template (VPAT) may be used for this purpose. The VPAT can be downloaded from the following website:
<http://www.itic.org/resources/voluntaryproduct-accessibility-template-vpat/>
- (d) Services delivered as a result of this solicitation will be accepted based in part on satisfaction of Section 508 requirements for accessibility.

D.9 OSHA COMPLIANCE

All services performed under the terms of the awarded contract shall comply with the requirements and standards specified in the Williams-Steiger Occupational Safety and Health Act of 1970 (Public Law 91-596), as well as with other applicable Federal, State, and local codes.

D.10 PERMITS

The Contractor shall, without additional expense to the Government, be responsible for obtaining any necessary licenses and permits, and for complying with any applicable Federal, state, and municipal laws, codes, and regulations, and any applicable freight work permits, authorizations, etc. and/or visas in connection with the performance of the contract.

PART II – CONTRACT CLAUSES
SECTION E – CONTRACT CLAUSES

E.1 CLAUSE B-5, CLAUSES INCORPORATED BY REFERENCE (SEP 2010)

This contract incorporates one or more clauses by reference, with the same force and effect as if they were given in full text. Upon request, the contracting officer will make their full text available. Also, the full text of a clause may be accessed electronically at this address:

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CLAUSE NUMBER	TITLE	DATE
1-5	Conflict of Interest	AUG 2004
1-10	Gratuities or Gifts	JAN 2010
1-15	Disclosure of Contractor Information to the Public	AUG 2004
2-20A	Incorporation of Warranty	JAN 2003
2-20B	Contractor Warranty (Products)	JAN 2010
2-95	Material Requirements	JAN 2003
3-25	Protecting the Judiciary's Interest When Subcontracting with Contractors Debarred, Suspended or Proposed for Debarment	JAN 2003
3-35	Covenant Against Contingent Fees	
3-40	Restrictions on Subcontractor Sales to the Government	JAN 2003
3-45	Anti-Kickback Procedures	JUN 2012
3-50	Cancellation, Rescission and Recovery of Funds for Illegal or Improper Activity	JUN 2012
3-55	Price or Fee Adjustment for Illegal or Improper Activity	JUN 2012
3-105	Audit and Records – Negotiations	APR 2011
3-120	Order of Precedence	JAN 2003
3-140	Notice to the Judiciary of Labor Disputes	JAN 2003
3-205	Protest after Award	JAN 2003
7-15	Observance of Regulations/Standards of Conduct	JAN 2003
7-20	Security Requirements	APR 2013
7-25	Indemnification	AUG 2004
7-30	Public Use of the Name of the Federal Judiciary	JAN 2003
7-35	Disclosure or Use of Information	APR 2013
7-65	Protection of Judiciary Buildings, Equipment, and Vegetation	APR 2013
7-85	Examination of Records	JAN 2003
7-100A	Limitation of Liability (Products)	JAN 2003
7-100B	Limitation of Liability (Services)	JAN 2003
7-110	Bankruptcy	JAN 2003
7-130	Interest (Prompt Payment)	JAN 2003
7-135	Payments	APR 2013
7-140	Discounts for Prompt Payment	JAN 2003
7-150	Extras	JAN 2003
7-185	Changes	APR 2013
7-210	Payment for Emergency Closures	APR 2013
7-215	Notification of Ownership Changes	JAN 2003

7-220	Termination for Convenience of the Judiciary (Fixed-Price)	JAN 2003
7-230	Termination for Default (Fixed-Price – Products and Services)	JAN 2003
7-235	Disputes	JAN 2003

E.2 JPV14 CLAUSE 2-20C, WARRANTY OF SERVICES (JAN 2003)

- (a) Definition. "Acceptance," as used in this clause, means the act of an authorized representative of the judiciary by which the judiciary assumes for itself, or as an agent of another, approves specific services, as partial or complete performance of the contract.
- (b) Notwithstanding inspection and acceptance by the judiciary or any provision concerning the conclusiveness thereof, the contractor warrants that all services performed under this contract will, at the time of acceptance, be free from defects in workmanship and conform to the requirements of this contract. The contracting officer will give written notice of any defect or nonconformance to the contractor within 30 days from the date of acceptance by the judiciary. This notice will state either
 - (1) that the contractor shall correct or re-perform any defective or nonconforming services; or
 - (2) that the judiciary does not require correction or re-performance.
- (c) If the contractor is required to correct or re-perform, it shall be at no cost to the judiciary, and any services corrected or re-performed by the contractor shall be subject to this clause to the same extent as work initially performed. If the contractor fails or refuses to correct or re-perform, the contracting officer may, by contract or otherwise, correct or replace with similar services and charge to the contractor the cost occasioned to the judiciary thereby, or make an equitable adjustment in the contract price.
- (d) If the judiciary does not require correction or re-performance, the contracting officer will make an equitable adjustment in the contract price.

E.3 JPV14 CLAUSE 6-20, INSURANCE – WORK ON OR WITHIN JUDICIARY FACILITY (APR 2011)

(a) The contractor shall, at its own expense, provide and maintain during the entire performance of this contract, at least the following kinds and minimum amounts of insurance:

- (1) Workman's Compensation and Employee's Liability Insurance

The contractor shall comply with applicable federal and state workers' compensation and occupational disease statutes. If occupational diseases are not compensable under those statutes, they shall be covered under the employer's liability section of the insurance policy. Employer's liability coverage of at least \$100,000 per incident is required.

- (2) Automobile Liability Insurance

The contractor shall have coverage at a minimum of \$200,000 per person; \$500,000 per occurrence for bodily injury; and \$20,000 per occurrence for property damage.

(3) General Liability Insurance

The contractor shall have coverage at a minimum of \$200,000 per person and \$500,000 per occurrence for death or bodily injury and \$20,000 per occurrence for property damage.

(4) Self-Insurance

If the contractor has been approved to provide a qualified program of self insurance, the contractor must submit any proposed changes to the program to the contracting officer for approval.

(b) Prior to beginning performance under this contract, the contractor shall provide the insurance carrier certification of the above minimum amounts.

(c) The maintenance of insurance coverage as required by this clause is a continuing obligation, and the lapse or termination of insurance coverage without replacement coverage being obtained will be grounds for termination for default.

(d) The certification evidencing required insurance shall contain an endorsement to the effect that any cancellation or any material change adversely affecting the judiciary's interest shall not be effective:

(1) for such period as the laws of the state in which this contract is to be performed prescribe; or

(2) until 30 days after the insurer or the contractor gives written notice to the contracting officer, whichever period is longer.

(e) The contractor shall insert the substance of this clause, including this paragraph (e), in subcontracts under this contract that require work in a judiciary facility and shall require subcontractors to provide and maintain the required insurance. The contractor shall maintain a copy of all subcontractors' proofs of required insurance, and shall make copies available to the contracting officer upon request.

PART III - REPRESENTATIONS AND INSTRUCTIONS**SECTION F - REPRESENTATIONS, CERTIFICATIONS, AND OTHER STATEMENTS OF OFFERORS****F.1 JUDICIARY POLICY VOLUME 14 (JPV14) PROVISION B-1, SOLICITATION PROVISIONS INCORPORATED BY REFERENCE (SEP 2010)**

This solicitation incorporates one or more solicitation provisions by reference, with the same force and effect as if they were given in full text. Upon request, the contracting officer will make their full text available. The offeror is cautioned that the listed provisions may include blocks that must be completed by the offeror and submitted with its proposal or offer. In lieu of submitting the full text of those provisions, the offeror may identify the provision by paragraph identifier and provide the appropriate information with its proposal or offer. Also, the full text of a solicitation provision may be accessed electronically at this address:

<http://www.uscourts.gov/procurement.aspx>.

CLAUSE NUMBER	TITLE	DATE
3-15	Place of Performance	JAN 2003

F.2 JPV14 PROVISION 3-5, TAXPAYER IDENTIFICATION AND OTHER OFFEROR INFORMATION (APR 2011)

(a) Definitions.

“Taxpayer Identification (TIN),” as used in this provision, means the number required by the Internal Revenue Service (IRS) to be used by the offeror in reporting income tax and other returns. The TIN may be either a social security number or an employer identification number.

(b) All offerors shall submit the information required in paragraphs (d) and (e) of this provision to comply with debt collection requirements of 31 U.S.C. §§ 7701(c) and 3325(d), reporting requirements of 26 U.S.C. §§ 6041, 6041A, and implementing regulations issued by the IRS. If the resulting contract is subject to the payment reporting requirements, the failure or refusal by the offeror to furnish the information may result in a 31 percent reduction of payments otherwise due under the contract.

(c) The TIN may be used by the government to collect and report on any delinquent amounts arising out of the offeror’s relationship with the government (31 U.S.C. § 7701(c)(3)). If the resulting contract is subject to payment recording requirements, the TIN provided hereunder may be matched with IRS records to verify the accuracy of the offeror’s TIN.

(d) Taxpayer Identification Number (TIN): _____

TIN has been applied for.

TIN is not required, because:

Offeror is a nonresident alien, foreign corporation or foreign partnership that does not have income effectively connected with the conduct of a trade or business in the United States and does not have an office or place of business or a fiscal paying agent in the United States;

Offeror is an agency or instrumentality of a foreign government;

Offeror is an agency or instrumentality of the federal government.

(e) Type of Organization:

sole proprietorship;

partnership;

corporate entity (not tax-exempt);

corporate entity (tax-exempt);

government entity (federal, state or local);

foreign government;

international organization per [26 CFR 1.6049-4](#);

other

(f) Contractor representations.

The offeror represents as part of its offer that it is , is not 51% owned and the management and daily operations are controlled by one or more members of the selected socio-economic group(s) below:

Women Owned Business

Minority Owned Business (if selected then one sub-type is required)

Black American Owned

Hispanic American Owned

Native American Owned (American Indians, Eskimos, Aleuts, or Native Hawaiians)

Asian-Pacific American Owned (persons with origins from Burma, Thailand, Malaysia, Indonesia, Singapore, Brunei, Japan, China, Taiwan, Laos, Cambodia (Kampuchea), Vietnam, Korea, The Philippines, U.S. Trust Territory of the Pacific Islands (Republic of Palau), Republic of the Marshall Islands, Federated States of Micronesia, the Commonwealth of the Northern Mariana Islands, Guam, Samoa, Macao, Hong Kong, Fiji, Tonga, Kiribati, Tuvalu, or Nauru)

Subcontinent Asian (Asian-Indian) American Owned (persons with origins from India, Pakistan, Bangladesh, Sri Lanka, Bhutan, the Maldives Islands, or Nepal)

Individual/concern, other than one of the preceding.

F.3 JPV14 PROVISION 3-20, CERTIFICATION REGARDING DEBARMENT, SUSPENSION, PROPOSED DEBARMENT, AND OTHER RESPONSIBILITY MATTERS (APR 2011)

(a) (1) The offeror certifies, to the best of its knowledge and belief, that:

(i) the offeror and/or any of its principals:

(A) are ___ are not ___ presently debarred, suspended, proposed for debarment, or declared ineligible for the award of contracts by any federal agency;

(B) have ___ have not ___, within the three-year period preceding this offer, been convicted of or had a civil judgment rendered against them for: commission of fraud or a criminal offense in connection with obtaining, attempting to obtain, or performing a public (federal, state, or local) contract or subcontract; violation of federal or state antitrust statutes relating to the submission of offers; or commission of embezzlement, theft, forgery, bribery, falsification or destruction of records, making false statements, tax evasion, violating federal criminal tax laws, or receiving stolen property;

(C) are ___ are not ___ presently indicted for, or otherwise criminally or civilly charged by a governmental entity with, commission of any of the offenses enumerated in paragraph (a)(1)(i)(B) of this provision;

(D) have ___, have not ___, within a three-year period preceding this offer, been notified of any delinquent federal taxes in an amount that exceeds \$3,000 for which the liability remains unsatisfied.

(1) Federal taxes are considered delinquent if both of the following criteria apply:

(i) The tax liability is finally determined. The liability is finally determined if it has been assessed. A liability is not finally determined if there is a pending administrative or judicial challenge. In the case of a judicial challenge to the liability, the liability is not finally determined until all judicial appeal rights have been exhausted.

(ii) The taxpayer is delinquent in making payment. A taxpayer is delinquent if the taxpayer has failed to pay the tax liability when full payment was due and required. A taxpayer is not delinquent in cases where enforced collection action is precluded.

(2) Examples.

(i) The taxpayer has received a statutory notice of deficiency, under I.R.C. § 6212, which entitles the taxpayer to seek Tax Court review of a proposed tax

deficiency. This is not a delinquent tax because it is not a final tax liability. Should the taxpayer seek Tax Court review, this will not be a final tax liability until the taxpayer has exercised all judicial appeal rights.

(ii) The IRS has filed a notice of federal tax lien with respect to an assessed tax liability, and the taxpayer has been issued a notice under I.R.C. § 6320 entitling the taxpayer to request a hearing with the IRS Office of Appeals contesting the lien filing, and to further appeal to the Tax Court if the IRS determines to sustain the lien filing. In the course of the hearing, the taxpayer is entitled to contest the underlying tax liability because the taxpayer has had no prior opportunity to contest the liability. This is not a delinquent tax because it is not a final tax liability. Should the taxpayer seek Tax Court review, this will not be a final tax liability until the taxpayer has exercised all judicial appeal rights.

(iii) The taxpayer has entered into an installment agreement pursuant to I.R.C. § 6159. The taxpayer is making timely payments and is in full compliance with the agreement terms. The taxpayer is not delinquent because the taxpayer is not currently required to make full payment.

(iv) The taxpayer has filed for bankruptcy protection. The taxpayer is not delinquent because enforced collection action is stayed under 11 U.S.C. 362 (the Bankruptcy Code).

(ii) The offeror ___ has ___ has not, within a three-year period preceding this offer, had one or more contracts terminated for default by any federal agency.

(2) "Principal," for the purposes of this certification, means an officer; director; owner; partner or a person having primary management or supervisory responsibilities within a business entity (e.g., general manager; plant manager; head of a division, or business segment, and similar positions).

(a) This certification concerns a matter within the jurisdiction of an agency of the United States and the making of a false, fictitious, or fraudulent certification may render the maker subject to prosecution under [18 U.S.C. § 1001](#).

(b) The offeror shall provide immediate written notice to the contracting officer if, at any time prior to contract award, the offeror learns that its certification was erroneous when submitted or has become erroneous by reason of changed circumstances.

(c) A certification that any of the items in paragraph (a) of this provision exists will not necessarily result in withholding of an award under this solicitation. However, the certification will be considered in connection with a determination of the offeror's responsibility. Failure of the offeror to furnish a certification or provide such additional information as requested by the contracting officer may render the offeror non-responsible.

(d) Nothing contained in the foregoing will be construed to require establishment of a system of records in order to render, in good faith, the certification required by paragraph (a) of this provision. The knowledge and information of an offeror is not required to exceed that which is normally possessed by a prudent person in the ordinary course of business dealings.

(e) The certification in paragraph (a) of this provision is a material representation of fact upon which reliance was placed when making award. If it is later determined that the offeror knowingly rendered an erroneous certification, in addition to other remedies available to the judiciary, the contracting officer may terminate the contract resulting from this solicitation for default.

K.4 JPV14 PROVISION 3-30, CERTIFICATE OF INDEPENDENT PRICE DETERMINATION (JAN 2003)

(a) The offeror certifies that:

(1) The prices in this offer have been arrived at independently, without, for the purpose of restricting competition, any consultation, communication, or agreement, with any other offeror or with any competitor relating to:

- (A) those prices;
- (B) the intention to submit an offer; or
- (C) the methods or factors used to calculate the prices offered.

(2) The prices in this offer have not been and will not be knowingly disclosed by the offeror, directly or indirectly, to any other offeror or contract award unless otherwise required by law; and

(3) No attempt has been made or will be made by the offeror to induce any other concern to submit or not to submit an offer for the purpose of restricting competition.

(b) Each signature on the offer is considered to be a certification by the signatory that the signatory:

(1) is the person in the offeror's organization responsible for determining the prices in this offer, and that the signatory has not participated, and will not participate, in any action contrary to paragraphs (a)(1) through (a)(3) of this provision; or

(2) (i) has been authorized, in writing, to act as agent for the following principals in certifying that those principals have not participated, and will not participate, in any action contrary to paragraphs (a)(1) through (a)(3) of this provision _____ (*insert full name of person(s) in the offeror's organization responsible for determining the prices in this offer, and the title of his or her position in the offeror's organization*);

(ii) as an authorized agent, does certify that the principals named in subdivision (b)(2)(i) of this provision; have not participated, and will not participate, in any action contrary to paragraphs (a)(1) through (a)(3) of this provision; and

(iii) as an agent, has not personally participated, and will not participate, in any action contrary to paragraphs (a)(1) through (a)(3) of this provision.

(c) If the offeror deletes or modifies paragraph (a)(2) of this provision, the offeror shall furnish with its offer a signed statement setting forth in detail the circumstances of the disclosure.

F.5 JPV14 PROVISION 3-130, AUTHORIZED NEGOTIATORS (JAN 2003)

The offeror represents that the following persons are authorized to negotiate on its behalf with the judiciary in connection with this solicitation (*offeror lists names, titles, and telephone numbers of the authorized negotiators*).

Name: _____

Titles: _____

Telephone: _____

Fax: _____

E-mail: _____

SECTION G - INSTRUCTIONS, CONDITIONS, AND NOTICE TO OFFERORS**G.1 JUDICIARY POLICY VOLUME 14 (JPV14) PROVISION B-1, SOLICITATION PROVISIONS INCORPORATED BY REFERENCE (SEP 2010)**

This solicitation incorporates one or more solicitation provisions by reference, with the same force and effect as if they were given in full text. Upon request, the contracting officer will make their full text available. The offeror is cautioned that the listed provisions may include blocks that must be completed by the offeror and submitted with its proposal or offer. In lieu of submitting the full text of those provisions, the offeror may identify the provision by paragraph identifier and provide the appropriate information with its proposal or offer. Also, the full text of a solicitation provision may be accessed electronically at this address:

<http://www.uscourts.gov/procurement.aspx>.

NUMBER	TITLE	DATE
2-15	Warranty Information	JAN 2003
3-85	Explanation to Prospective Offerors	AUG 2004
3-95	Preparation of Offers	JAN 2003
3-100	Instructions to Offerors	APR 2011
7-60	Judiciary Furnished Property or Services	JAN 2003

G.2 JPV14 PROVISION 2-70, SITE VISIT (JAN 2003)

- (a) **It is strongly recommended to participate in the site visits before submitting a quote for this project.**

The Contractor site visit will be:

August 24, 2020 from 9:00 am – 10:30 am

Please confirm your participation by contacting the Contracting Officer's Technical Representative (COTR), David Zendlo by phone at (330) 252-6023 or by email at david_zendlo@ohnd.uscourts.gov. **The site visit will be a socially distanced, mandatory masked visit. No virtual walk-throughs will be conducted.**

- (b) You **must** contact the COTR to schedule your site visit to the courtrooms.
- (c) All questions and inquiries shall be submitted in writing as specified in Section L.6.

G.3 JPV14 PROVISION 3-210, PROTESTS (SEP 2010)

(a) The protestor has a choice of protest forums. It is the policy of the judiciary to encourage Courts. However, if a party files a formal protest with an external forum on a solicitation on which it has filed a protest with the judiciary, the judiciary protest will be dismissed.

(b) Judiciary protests will be considered only if submitted in accordance with the following time limits and procedures:

(1) any protest shall be filed in writing with the contracting officer designated in the solicitation for resolution of the protest. It shall identify the solicitation or contract protested and set forth a complete statement of the alleged defects or grounds that make the solicitation terms or the award or proposed award defective. Mere statement of intent to file a protest is not a protest.

(2) a protest shall be filed not later than ten (10) calendar days after the basis of the protest is known or should have been known. A protest based on alleged improprieties in a solicitation which are apparent prior to the closing date for receipt of offers, shall be filed prior to the closing date for receipt of offers. The judiciary, in its discretion, may consider the merits of any protest which is not timely filed. The office hours of the Administrative Office are 8:30 a.m. to 5:00 p.m., eastern time. Time for filing a document expires at 5:00 p.m., eastern time, on the last day on which such filing may be made.

(3) the protest shall include the following information:

(i) name, address, and fax and telephone numbers of the protester or its representative;

(ii) solicitation or contract number;

(iii) detailed statement of the legal and factual grounds for the protest, to include a description of resulting alleged prejudice to the protester;

(iv) copies of relevant documents;

(v) request for a ruling by the judiciary;

(vi) statement as to the form of relief requested;

(vii) all information establishing that the protester is an interested party for the purpose of filing a protest; and

(viii) all information establishing the timeliness of the protest.

(c) Unless stated otherwise elsewhere in this solicitation, protests that are filed directly with the judiciary, and copies of any protests that are filed with an external forum, shall be served on the contracting officer at the Issuing Office address on the standard form, if any, or elsewhere in this parties first to seek resolution of disputes with the contracting officer. If the dispute cannot be resolved with the contracting officer, then it is the policy of the judiciary to encourage parties to seek a judiciary resolution of disputes with the Administrative Office of the United States solicitation. Written and dated acknowledgment of receipt must be obtained from the Contracting Officer issuing this solicitation, or authorized designee.

(d) The copy of any protest shall be received in the office designated above within one day of filing a protest with an external forum.

G.4 PROVISION 4-1, TYPE OF CONTRACT (JAN 2003)

The judiciary plans to award a firm fixed price contract under this solicitation, and all offers shall be submitted on this basis. Alternate offers based on other contract types will not be considered.

G.5 SUBMISSION ADDRESS AND DUE DATE

The response must be bound together at the upper left hand corner only. Please do not include binders with your response. One (1) original and one (1) copy of your RFP should be received by the Contracting Officer, **NO LATER THAN 5:00 P.M, EST. September 18th, 2020** at the following address:

U.S. District Court - Northern District of Ohio
Office of the Clerk
801 West Superior Avenue, Room 2-141
Cleveland, Ohio 44113
Attention: Sharon Vance, Contracting Officer

Responses may be submitted by e-mail to sharon_vance@ohnd.uscourts.gov.

G.6 INQUIRIES

CLARIFICATIONS, RESPONSES TO QUESTIONS AND/OR AMENDMENTS TO THIS SOLICITATION, WILL BE AVAILABLE ON THE INTERNET AT: www.ohnd.uscourts.gov. All clarifications and/or amendments, if made, will also be provided directly to all offerors of which the court has knowledge.

Questions concerning any areas of uncertainty which in your opinion require clarification or correction, must be furnished in writing, (e-mail is also acceptable) to Sharon Vance, and marked "Offeror's Questions, RFP No. **OHND-20-05-AKR**", and must be submitted **NO LATER THAN TEN CALENDAR DAYS** from date of issuance of the solicitation document.

Questions pertaining to the Court's requirement or quote preparation should be referred only to Sharon Vance, Contracting Officer, US District Court, Cleveland, Ohio, who may be contacted at (216) 357-7073, or email sharon_vance@ohnd.uscourts.gov. Collect calls will not be accepted.

G.7 RESPONSE SUBMISSION

The Offeror is responsible for any and all expenses related to the preparation and submission of a response to this solicitation. The Court shall incur no obligation except pursuant to the execution of a contract by the Court and the successful Offeror (Contractor).

G.8 MINIMUM ACCEPTANCE PERIOD

(a) All offers and pricing shall remain valid for a period of ninety (90) calendar days (e.g., minimum acceptance period) from the date specified for the receipt of offers, unless another time period is specified in an addendum to this solicitation. Offerors may specify a longer acceptance period than the Court's minimum requirement; an offer allowing less than the Court's minimum acceptance period, however, may be rejected.

(b) The Offeror agrees to perform all tasks and functions and furnish all facilities, services, and items in compliance with its offer for the proposed prices, as accepted by the Court, if awarded the contract within the acceptance period. It shall be noted that the longer acceptance period whether specified by the Court or by the Offeror will be used to determine the actual minimum acceptance period.

SECTION H - EVALUATION FACTORS FOR AWARD

H.1 JUDICIARY POLICY VOLUME 14 (JPV14) PROVISION B-1, SOLICITATION PROVISIONS INCORPORATED BY REFERENCE (SEP 2010)

This solicitation incorporates one or more solicitation provisions by reference, with the same force and effect as if they were given in full text. Upon request, the contracting officer will make their full text available. The offeror is cautioned that the listed provisions may include blocks that must be completed by the offeror and submitted with its proposal or offer. In lieu of submitting the full text of those provisions, the offeror may identify the provision by paragraph identifier and provide the appropriate information with its proposal or offer. Also, the full text of a solicitation provision may be accessed electronically at this address:

<http://www.uscourts.gov/procurement.aspx>.

CLAUSE NUMBER	TITLE	DATE
3-70	Determination of Responsibility	JAN 2003

H.2 AWARD ON INITIAL RESPONSES

The Court reserves the right to award the contract based on the initial response submission, without discussions or negotiations of such responses. Therefore, it is important that each response be fully compliant, without exception to any requirement, clause, or provision.

Offerors should submit initial responses which respond most favorably to the Court's requirements.

H.3 EVALUATION – GENERAL

(a) Award will be made on the basis of the lowest price/technically acceptable Offer. Award will be on an all or none basis.

(b) The evaluation will be conducted using the evaluation criteria set forth in this section. Each initial offer should contain the Offeror's best terms from a price and technical standpoint. Clarification/revision requests may be issued which encompass any and all written documentation submitted in response to the solicitation as may be deemed necessary by the Contracting Officer, to fully explore and evaluate the merits of responses submitted. The Court reserves the right to conduct discussions, if later determined to be necessary.

H.4 EVALUATION PROCESS

Quotes will be evaluated based on product compatibility & reliability, service, and price. The United States District Court reserves the right to:

1. Request clarification or additional information from any Contractor at any time,
2. Modify, remove, or add requirements to the RFP and to suspend or reopen the RFP process,
3. Reject any or all responses and terminate the RFP

Final selection of the Contractor is solely within the discretion of the Court and will be contingent on the availability of funds.

Each response will be initially evaluated for:

- (1) Lowest price technically acceptable,
- (2) Responsiveness to the solicitation, agreed upon terms and conditions, and
- (3) The ability to satisfy the requirements of the solicitation

The Court reserves the right to consider as acceptable only those responses that are submitted in accordance with all requirements set forth or referenced in this solicitation. Offerors shall demonstrate an understanding of all requirements and a capability to provide the required facilities, services, and items. The Court reserves the right to reject responses that do not address the totality of the solicitation requirements, including the contract terms and conditions. Only those responses considered to be in compliance with all requirements herein will be evaluated.

Technical acceptability will be determined based upon the proposed equipment information submitted and past experience.

H.5 PRICE EVALUATION

Offerors' prices from the Bid Forms in the Schedule B attachment will be evaluated for reasonableness. Responses containing unrealistic prices will not be considered for award.

NOTE: The spreadsheets in Schedule B will calculate only after the spreadsheet has been saved.

H.6 CONTRACT AWARD

- (a) The Court intends to award a single contract resulting from this solicitation.
- (b) Contract award will be made to the responsible Offeror whose response represents the lowest price technically acceptable offer of the total award.
- (d) The Court reserves the right to make no award pursuant to this solicitation.

DESIGN REPORT

For

United States District Court

4th Floor Article III Courtroom 442

John F. Seiberling Federal Building & United States Courthouse

2 South Main Street

Akron, Ohio 44608

July 31, 2020

DIVISION 27 - MEDIA TECHNOLOGY EQUIPMENT

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DIVISION 00 – PROCUREMENT & CONTRACTING REQUIREMENTS

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SECTION 00 01 15 – LIST OF DRAWINGS

SECTION 000115 - LIST OF DRAWINGS

PART 1 - GENERAL

1.1 LIST OF DRAWINGS

<u>Drawing Number</u>	<u>Drawing Title</u>
TA001	Notes
TA002	Connector Legend
TA003	Floor Plan and Reflected Ceiling Plan Legend
TA004	Floor Plan and Reflected Ceiling Plan Legend
TA005	Floor Plan and Reflected Ceiling Plan Legend
TA006	Floor Plan and Reflected Ceiling Plan Legend
TA401	4 th Floor Courtroom 442 Floor plan for Audio, Video & Control Devices
TA411	4 th Floor Courtroom 442 Reflected ceiling plan for Audio Devices
TA601	4th Floor Courtroom 442 Audio System Functional Requirements
TA602	4th Floor Courtroom 442 Video System Functional Requirements
TA603	4th Floor Courtroom 442 AV Control & Power Systems Functional Requirements
TA701	4th Floor Courtroom 442 Plate #1
TA702	4th Floor Courtroom 442 Plate #2
TA703	4th Floor Courtroom 442 Plate #3
TA704	4th Floor Courtroom 442 Plate #4
TA705	4th Floor Courtroom 442 Plate #5
TA706	4th Floor Courtroom 442 Plate #6
TA707	4th Floor Courtroom 442 Plate #7
TA708	4th Floor Courtroom 442 Plate #8

TA728	4th Floor Courtroom 442 Plate #28
TA782	4th Floor Courtroom 442 Plate #82
TA784	4th Floor Courtroom 442 Plate #84
TA807	Custom Jury Box Monitor Post

1.2 RELATED DOCUMENTS

- A. Refer to Schedule A for Equipment Information / List
- B. Refer to Schedule B for Equipment List
- C. Refer to Schedule D for Project Drawings.

1.3 DESIGN CONSIDERATION

- A. The Specification text has been provided as a functional description and definition of the performance characteristics of the required systems. For specific system design information, refer to the Functional Design Intent drawings included herein for signal path and feature requirements. The Design Intent drawings *do not* represent wiring diagrams. For inclusion/exclusion of equipment types, items, and quantities, refer to the Schedule B (Recommended Brands and Models). The Drawings take the following precedents and have the following functions.
 1. Floor plans show approximate device locations and the needed connections and functions at those locations. The device locations and signal types are specific to this project and all items shown are required at those locations. Plate numbers and general locations are shown on these drawings. Devices shown on these plans override the Functional Requirements Drawings.
 2. Signal drawings indicate custom built plates that are used for signaling systems and may have custom electronics and/or relay devices associated with them.
 3. Functional Requirements Drawings show basic signal flow requirements to portray Design Intent. These drawings shall *not* be used for calculating input and/or output quantities. Many functional requirements of the overall design cannot be illustrated in flow drawings and the TMSC shall also consider written specifications contained herein for the system engineering and hardware programming to accomplish needed function. Quantities indicated in the Equipment Schedule B and indicated on the Floor plan take precedence.
 4. TMSC shall verify Control screen layouts per overall requirements and submit with shop drawings as indicated herein with any changes needed to comply with Design Intent.

1.4 INTENT OF DRAWINGS

- A. The TMSC shall provide and install all connections to all locations on the floor plan indicated by letter and symbol codes that shall be considered part of this contract. Functions coded by letters and symbols and shown on legend sheets shall be made working components of the system and the system shall be engineered to accomplish these requirements as needed.

- B. The TMSC shall use techniques and methods as they see fit to obtain the Design Intent outside of the Government's and Consultant's influence unless otherwise stated. Neither the Government nor the Consultant is responsible for specifying the Means or Methods by which the TMSC is to build the project unless that information is defined within the Specification. Neither the Government nor Consultant is responsible for the installation techniques, installation methods, details required for those methods, sequencing or procedure required to meet the Design Intent of the project unless that information is defined within the Specification.

PART 2 - PRODUCTS (NOT USED)

PART 3 - EXECUTION (NOT USED)

END OF SECTION – LIST OF DRAWINGS

SECTION 00 01 20 – LIST OF SCHEDULES

SECTION 000120 - LIST OF SCHEDULES

PART 1 - GENERAL

- 1.1 The following is a list of Schedules used to summarize project scope. The complete set of Contract Documents (Drawings and Specifications) contain other requirements that shall be included in Project Scope along with the Scheduled information.
- 1.2 SCHEDULE A - EQUIPMENT LIST / INFORMATION
- 1.3 SCHEDULE B - EQUIPMENT LIST
- 1.4 SCHEDULE C – NOT USED
- 1.5 SCHEDULE D - PROJECT DRAWINGS

PART 2 - PRODUCTS (NOT USED)

PART 3 - EXECUTION (NOT USED)

END OF SECTION – LIST OF SCHEDULES

SECTION 00 11 19 – REQUEST FOR PROPOSAL

SECTION 001119 - REQUEST FOR PROPOSAL

PART 1 - GENERAL

1.1 TERMS

- A. The terms of the proposal shall be as defined in the attached documents provided by The Court. This project is not being procured through the AO's Integrator's BPA.

PART 2 - PRODUCTS (NOT USED)

PART 3 - EXECUTION (NOT USED)

END OF SECTION – REQUEST FOR PROPOSAL

SECTION 00 21 13 – INSTRUCTIONS TO BIDDERS

SECTION 002113 - INSTRUCTIONS TO BIDDERS

PART 1 - GENERAL

1.1 EXAMINATION OF DOCUMENT

- A. Bidders shall carefully examine the Bidding Documents. Submission of a Bid shall be conclusive evidence that the bidder has made such examination. Failure to make such an examination shall not be accepted as a basis for claims for extra compensation or extension of time.

1.2 BID PREPARATION

- A. Prepare bids on the electronic **Excel Format** Bid Form issued with this specification. Do not change or modify the Bid Form except to add needed equipment or list proposed substitutions. Include substitutions **ONLY** in a **SUBSTITUTION** column of the spreadsheet. Unauthorized conditions, limitations, or escalator clauses attached to the bid will be cause for rejection of the Bid at the Owner's sole discretion.

1.3 INTERPRETATIONS/CLARIFICATIONS DURING BIDDING; ADDENDA

- A. Notify the Owner and copy the Court's Representative or Consultant in writing of omissions, discrepancies, or ambiguities in the Bidding Documents.
- B. "Addenda" are documents issued prior to the receipt of Bids which modify, clarify, or interpret the Bidding Documents. Addenda become part of the Contract Documents when the Contract is executed.
- C. Interpretation or correction of the Bidding Documents will be issued by Addenda. Interpretations or corrections given by other methods will not be binding and TMSC shall not rely on such information. Addenda will be mailed or e-mailed to each of the approved bidders.
- D. Any addenda issued during the Bidding period are to be included and acknowledged in the Proposal and are to be considered as part of the Contract Documents. Neither Owner nor the Court's Representative or Consultant will be responsible for any oral instructions or interpretations.
- E. After Bid is received Best and Final Offer letters may be, at the discretion of the Court, issued individually to the companies that submitted a bid or an official "No Bid". Any modifications made on the Best and Final Offer letter shall become part of the Construction Documents when the Contract is executed. If Best and Final Offer letters are not issued, then the Bid shall be considered the Best and Final Offer.

1.4 BID EVALUATION

- A. Unless otherwise noted, materials, labor, travel, and optional maintenance of the Base Bid plus ALL Options and ALL additional warranty years, whether awarded or not, will be taken into consideration in determining the lowest bid.

1.5 AWARD

- A. Proposed pricing shall be honored for six (6) months after last Proposal submittal date.

PART 2 - PRODUCTS

2.1 DISCONTINUED / BACK ORDERED PRODUCTS

- A. Products that are no longer available or will be unavailable by the start of installation shall be brought to the attention of the Court's Representative or Consultant as soon as the TMSC is aware of the discontinuation or unavailability.

2.2 CABLING AND TERMINATIONS

- A. Areas where cable is not enclosed in conduit or cable that passes through any space where open air handling is present (or any other area where construction codes, building codes, local codes, or the National Electrical Code dictate plenum cable) shall be provided with plenum cable for the entire length of the cable regardless of the length of the plenum area that the cable passes through. Plenum cable shall be quoted as part of the contract during bidding where required or anticipated and no additional compensation shall be provided for addition of this cable requirement after contract award except where field conditions have changed. Substitutions of air handling plenum rated cable shall exactly match the normally applied product and shall meet the standards of UL Standard #900 and the NEC (National Electrical Code) Article 820.

PART 3 - EXECUTION

3.1 BIDDING

- A. Other than where allowed, the TMSC shall provide an unmodified electronic copy in **Excel Format** of a completed Bid Form as attached with this bid request.
- B. The TMSC is responsible for bidding and providing a complete and working system, not only the equipment schedule listed. Add blank lines on the Bid Form to include any additional items that they feel are needed to complete the project.
- C. Bids that have been submitted with individual bid items (CLINS) that are not provided with an individual cost shall risk rejection for being Technically Unacceptable. Do not provide notations that indicate that the item is included in another CLIN or included as lump sum in labor. An individual cost must be provided for each CLIN that has been separated in the Bid Form.
- D. Any additional equipment that is not provided on the Bid Form shall be included in the installation without additional compensation. Where the bidder feels additional compensation shall be made, the issue shall be identified clearly in writing to the Court's Representative or Consultant.
- E. The TMSC is responsible for considering conditions affecting costs, progress, or performance of the work while responding to the bid.

- F. The Bidder agrees to assume all increases in labor rates and/or material prices that may develop during the life of this Contract.
- G. By submitting a bid, the TMSC agrees to furnish all materials, equipment, tools, accessories, miscellaneous parts, transportation, shipping, all applicable value-added rates, fees, permit costs, taxes, and incidentals necessary for the completion of the Work.
- H. Communications concerning this Bid shall be directed to the Owner and copied to the Court's Representative or Consultant.

END OF SECTION –INSTRUCTIONS TO BIDDERS

SECTION 00 24 00 – PROCUREMENT SCOPES

SECTION 002400 - PROCUREMENT SCOPES

PART 1 - GENERAL

1.1 SUMMARY

- A. The contractor shall procure, install, configure, and test a complete operational audio, video, built-in videoconference, and control system in a 4th Floor Courtroom in the Project Courthouse. Nearly all of the equipment is new and equipment in the main rack is all new. The main rack should be built off-site and pre-tested prior to shipment to the courthouse.
- B. The existing ceiling speakers are to be reused if found to be operating to their specifications. Zone rewiring will be required.
- C. Should the TMSC find any faulty devices that are to be reused, an RFQ will be issued to remedy. The TMSC is not required to repair any existing Client Furnished Equipment without additional compensation. Therefore, it is critical that all materials to be reused be thoroughly tested within the first few days of the on-site work.
- D. The control system GUI shall be based on the most recent District projects from similar courtrooms, although changes will be needed to adapt the interface to the specific conditions of the project courtroom. However, the controller code is to be fully re-written as part of this project. Old code modules will only be made available to view and shall not be re-used.

PART 2 - PRODUCTS

2.1 PRODUCTS

- A. Products shall be as defined as new product, reused or Client Furnished Equipment as listed in Schedule B. All other products used other than miscellaneous parts, accessories, and installation supplies shall be listed and provided to the Court's Representative or Consultant for review.

PART 3 - EXECUTION

- A. (NOT USED).

END OF SECTION – PROCUREMENT SCOPES

SECTION 00 26 00 – PROCUREMENT SUBSTITUTION PROCEDURES

SECTION 002600 - PROCUREMENT SUBSTITUTION PROCEDURES

PART 1 - GENERAL

1.1 SUBSTITUTIONS

- A. Prior to award, submit proposed substitutions in writing to the Court's Representative and Consultant using the defined methods below.
- B. After award, substitutions must be proposed in writing for review and revision/approval before the contractor can order.

PART 2 - PRODUCTS

2.1 REQUIREMENTS

- A. Where specific equipment is described, it is not the intention to discriminate against the products or other manufacturers, but rather to establish a standard of quality and feature performance. All proposed substitutions shall be submitted by filling in the "Proposed Substitution" column in the Form or as a Request for Substitution on the form provided in Section 006325. Many components have been selected due to physical dimensions and/or other characteristics. Coordination with the providers of millwork, etc. may have been accomplished with specific brand/models prior to issue of this specification. For compatibility reasons, it is mandatory that all substitutions be reviewed by the Court's Representative or Consultant prior to change.
- B. Electronic component models proposed as substitutions must have been commercially available for at least three (3) months prior to bid.
- C. All equipment and material provided by the TMSC shall be new.
- D. All equipment must be UL listed or built to UL standards.

PART 3 - EXECUTION

- A. (NOT USED).

END OF SECTION – PROCUREMENT SUBSTITUTION PROCEDURES

SECTION 00 31 13 – PRELIMINARY SCHEDULE

SECTION 003113 - PRELIMINARY SCHEDULE

PART 1 - GENERAL

1.1 SCHEDULE

- A. The TMSC shall be allowed a minimum of ninety (90) days after award to complete pre-installation submittals.

PART 1 - PRODUCTS (NOT USED)

PART 2 - EXECUTION (NOT USED)

END OF SECTION – PRELIMINARY SCHEDULE

SECTION 00 41 00 – BID FORMS

SECTION 004100 - BID FORMS

PART 1 - GENERAL

1.1 BID FORM

- A. The Bid Form will be provided to the bidders in Excel format. Bids must be submitted on completed spreadsheets in Excel format. PDF files alone will not be accepted.
- B. See Section 002113 "Instructions to Bidders."

PART 2 - PRODUCTS (NOT USED)

PART 3 - EXECUTION (NOT USED)

END OF SECTION – BID FORMS

SECTION 00 72 00 – GENERAL CONDITIONS

SECTION 007200 - GENERAL CONDITIONS

PART 1 - GENERAL

1.1 GENERAL CONDITIONS

- A. TMSC shall comply with the General Conditions set forth in their current BPA and any other contract with the AOUSC.

PART 2 - PRODUCTS (NOT USED)

PART 3 - EXECUTION (NOT USED)

END OF SECTION – GENERAL CONDITIONS

SECTION 00 73 43 – WAGE RATE REQUIREMENTS

SECTION 007343 - WAGE RATE REQUIREMENTS

PART 1 - GENERAL

1.1 PREVAILING WAGE

- A. Not less than the greater prevailing rate of wages as found by the AOUSC or the local jurisdiction or determined by a court on review shall be paid to all laborers, workers, and mechanics performing Work under the contract.
- B. The TMSC and each subcontractor shall comply with the Davis-Bacon act.
- C. Union rates shall be bid and paid if applicable. These rates shall be included in all bids where applicable.
- D. The TMSC and each subcontractor shall keep an accurate record showing the names and occupations of all laborers, workers and mechanics employed by them on the contract, and also showing the actual hourly wages paid to each of such persons.
- E. The submission by the TMSC and each subcontractor of payrolls, or copies thereof, is not required. However, the TMSC and each subcontractor shall preserve their weekly payroll records for a period of three years from the date of completion of the contract.
- F. If the AOUSC or local jurisdiction revises the prevailing rate of hourly wages to be paid by the public body, the revised rate, as provided by the public body, shall apply to the contract.

PART 2 - PRODUCTS (NOT USED)

PART 3 - EXECUTION (NOT USED)

END OF SECTION – WAGE RATE REQUIREMENTS

DIVISION 01 – GENERAL REQUIREMENTS

SECTION 01 10 00 – SUMMARY OF WORK

SECTION 011000 - SUMMARY OF WORK

PART 1 - GENERAL

- A. Provide materials and labor necessary to accomplish the Work indicated on the Drawings, Schedules, and specified herein to assemble the video, audio, and control related equipment into operational systems, making all interconnections, performing all tests and adjustments, and providing documentation as required for a complete installation.

1.1 STATEMENT OF WORK

- A. The TMSC shall provide audio/visual systems compatible with the Court's operations as defined within. Control panel control page layouts, labels, and functions shall be reviewed by the Court's Representative and the Consultant.
- B. The Scope of Work shall be as described in Section 002400 Procurement Scopes and implied in the system drawings and materials defined.
- C. The TMSC shall provide equipment that, where required, shall conform to the applicable requirements of the Underwriter's Laboratories, Inc., local codes, the National Electrical Code and any other governing codes. Such items shall bear the label or mark indicating their conformance to the above requirements.
- D. Unless noted otherwise, the Work shall include everything necessary or incidental to complete the installation including receptacle plates, wire, electrical boxes, racks, mounts, etc. The Building Owner shall provide conduit, millwork and furniture. The TMSC shall coordinate such excluded equipment with the Building Owner and Building Owner Representatives. The TMSC shall furnish all necessary information to insure that a reliable and functional audio/visual system will be installed.
- E. The TMSC shall remove and replace all existing carpet where it is installed over header duct, cell ducts, and/or junction boxes where it does not require cutting. Remove hatches, covers and lids as needed to access cable pathways.
- F. The TMSC shall restore finish hardware and surfaces to original condition if damaged during installation including painting, wall, millwork, furniture, and ceiling modifications and attachments.
- G. The TMSC shall provide training as defined in Section 017900.
- H. The TMSC shall provide a one-year warranty at no cost to the government in the base bid and shall additionally provide optional warranties as listed in the Bid Form if awarded.
- I. Formal testing, as defined by the equipment, component and cable manufacturer, is required for all twisted 4-pair cables installed for this project. The Testing Plan, including manufacturers recommendations shall be submitted for approval prior to the start of the project.

PART 2 - PRODUCTS (NOT USED)

PART 3 - EXECUTION

3.1 INSTALLATION

- A. The TMSC shall provide a system configured and installed for simplicity of operation and low maintenance, with user-friendly controls.
- B. The installation of the electronic systems shall comply with AVIXA CTS-I Best Practices as it is published at the time of bidding.

END OF SECTION – SUMMARY OF WORK

SECTION 01 11 16 – WORK BY OWNER

SECTION 011116 - WORK BY OWNER

PART 1 - GENERAL

1.1 INFRASTRUCTURE

- A. The TMSC shall use chase ways provided by others for installation. Where chases are shared, use area designated for work. The TMSC shall risk tear-out without additional compensation if cables are installed in non-authorized chase ways. If designated chase ways have been used by other trades, notify the Court's Representative or Consultant in writing immediately upon discovery. The TMSC shall not disturb cables of other trades without permission from the Owner or Court's Representative or Consultant.

1.2 LAN CONNECTIONS

- A. The Owner shall provide an active building LAN connection for the rack location(s) and active VoIP connections as required. Additional LAN connections to distribute connectivity to media devices shall be provide as listed.

PART 2 - PRODUCTS

2.1 CLIENT FURNISHED EQUIPMENT

- A. Significant items provided by the Owner is listed in Schedule B.

PART 3 - EXECUTION (NOT USED)

END OF SECTION – WORK BY OWNER

SECTION 01 14 13 – ACCESS TO SITE

SECTION 011413 - ACCESS TO SITE

PART 1 - GENERAL

1.1 ACCESS TO SITE

- A. The TMSC's employees and any temporary laborers or other subcontractors that plan to be in the courthouse to work on the project must pass an AO and/or USMS security background check and be approved prior to entering the courthouse. Note that reviews and approvals take some time and the list of Individuals shall be submitted to the Court's Representative as soon as possible after contract award.
- B. The TMSC shall coordinate all working hours and access with Owner and building security personnel. Arrangements for access afterhours shall be made in advance by the TMSC.
- C. The TMSC is responsible for arranging internet access themselves. There may not be access to the building LAN during the installation phase and the TMSC shall not plan on government assistance.

1.2 IDENTIFICATION

- A. The TMSC's installation team shall at all times wear photographic identification as issued by the building security personnel. The TMSC shall coordinate acquiring identification from the appropriate authorities prior to the start of Work. The project schedule shall not be delayed due to delays in processing building access or obtaining acceptable identification.

PART 2 - PRODUCTS (NOT USED)

PART 3 - EXECUTION (NOT USED)

END OF SECTION – ACCESS TO SITE

SECTION 01 14 19 – USE OF SITE

SECTION 011419 - USE OF SITE

PART 1 - GENERAL

1.1 USE OF SITE

- A. The TMSC shall at all times maintain professional working conditions at the site.
- B. The TMSC shall not interfere with operations of building tenants. Where services need to be disrupted, the TMSC shall coordinate a time with the owner suitable to the tenants.
- C. The TMSC shall coordinate all planned impact and air-borne noise intrusions with the building owner or the tenant. Sound and vibrations that are found to disturb any building tenant shall cease immediately. The TMSC shall immediately contact the Court POC for resolution. The TMSC shall not proceed with problematic work until the issue is resolved.
- D. The TMSC shall maintain the facilities both at the TMSC's workplace and at the job site to store this material with adequate security and with insurance coverage to prevent loss due to theft, vandalism, failure of building systems and all insurable conditions. At the completion of the Work the TMSC shall dismantle this storage facility and if a building space, return it to its normal state. The TMSC shall remove from the site all construction equipment, surplus materials, supplies, and rubbish used or created as part of this Work and as required.

PART 2 - PRODUCTS

2.1 CONSTRUCTION HAZARDS

- A. During business hours, all ladders and equipment carts in use will be marked with red or yellow/black striped hazard tape. At no time during business hours shall fire exits be blocked by installation equipment or materials. Ladders, equipment, and equipment carts shall not be left unattended and accessible at any time during business hours. Un-spoiled wire, cable, and fish tape shall not be left in hallways or other rooms and shall never be left unattended. Where large quantities of cable are on the floor, they shall be marked by orange safety cones.

PART 3 - EXECUTION

3.1 CONFINED SPACES

- A. The TMSC shall be allowed to remove lids, wall segments, tiles, doors, and grills to work in confined spaces. The TMSC shall be solely responsible for any damage done to building materials and shall replace all materials where they have been removed or displaced for access.

3.2 CONTINUITY OF SERVICE

- A. Scheduling: All necessary interruptions required for installation of the Media Systems or its provisions shall be scheduled ten (10) days in advance with the Owner. No interruptions will be permitted without the Owner's explicit permission. Interruptions shall be arranged during hours and days that least inconveniences the operation of the existing facility and each interruption shall be as short as possible.
- B. Temporary Service: Temporary connections shall be made as required to provide continuity of existing service to areas not affected by construction. Temporary provisions shall be made where interruptions cannot be tolerated.

3.3 CONSTRUCTION PROCEDURES

- A. Construction Debris: Clear away all debris and surplus materials resulting from Work and operations on a daily basis. Clearing shall comply with notes outlined in Continuity of Service above.
- B. Incidental Damage: The TMSC shall replace or repair all damage to the building or its contents as a result of Work performed in fulfilling the contract or warranty. Refinish and restore to their original condition all equipment and furniture which has sustained damage to the manufacturer's prime and finish coats.

3.4 SECURITY

- A. The TMSC shall provide to the Court's Representative or Consultant a list of all workers that will be present at the site at any time. The TMSC shall coordinate with the Owner all issues concerning badges, keys, access, etc. Installation shall occur after normal business hours ONLY with permission from the Owner. It shall be the TMSC's responsibility to secure all equipment and tools at the installation site prior to turning them over to the Owner.

END OF SECTION – USE OF SITE

SECTION 01 26 39 – FIELD ORDERS PROCEDURES

SECTION 012639 - FIELD ORDERS PROCEDURES

PART 1 - GENERAL

1.1 GENERAL INSTALLATION REQUIREMENTS

- A. The TMSC shall at all times communicate to the Court's Representative or Consultant all site issues that impact the project in any way other than what has been established. Such communication shall be conveyed in written in an electronic format; such as email or a shared cloud work space. A standardized RFI form shall be used for all such communication.
- B. The TMSC shall only use an RFI process to solicit information from the Court's Representative or Consultant. All RFI's are to be sent to the Court's Representative or Consultant. Email RFI's are suitable if submitted in a written format agreed to with the RFI completed and a *separate* RFI form is attached to the email. RFI forms may be editable (i.e. Microsoft Word) or un-editable (i.e. Adobe Acrobat PDF). All RFI's shall be numbered in a sequential order beginning at 1. Any other methods of submitting formal requests will go unanswered. RFIs submitted directly as text within an email is not acceptable.
- C. Any alterations or modifications of the Work performed under this contract shall be made only by written agreement between the TMSC and the Court's Representative or Consultant and shall be made prior to commencement of the altered or modified Work. No claim for any additional Work or materials shall be allowed unless pre-authorized by written agreement prior to commencement of said Work. Verbal approvals will not be considered valid.
- D. All Change Order requests and quotes shall be provided directly to the Court's Representative or Consultant and shall be received within five (5) business days of receipt of the request from the Court's Representative or Consultant. All change order requests shall be numbered and completed properly.

1.2 PROJECT DIRECTION

- A. The TMSC shall not take direction from the client or their agents at the site in any way that may cause a change of defined scope, a cost or credit to the project, add additional labor, or delay the project. All issues that arise are to be brought to the attention of the Court's Representative or Consultant at once for resolution. Inform the Court's Representative or Consultant via phone or email that an RFI is pending. Responding to the client onsite without pursuing an RFI and the repercussions of the actions shall in no way be compensated. The TMSC is given the right to contact the Court's Representative or Consultant at once in order for clarification.

PART 2 - PRODUCTS (NOT USED)

PART 3 - EXECUTION

3.1 AVAILABILITY

- A. The TMSC's lead installer shall at all times provide and keep possession of an active cell phone which shall be left on from 7:30 AM to 8:00 PM local time Monday through Friday and on weekends if site work is underway. The phone number of the cell phone shall be provided to the Court contact and the Court's Representative or Consultant at the Installation Kick-Off Meeting or the first day onsite. Any change to the phone number or site lead shall be communicated to the Court contact and the Court's Representative or Consultant immediately.

END OF SECTION – FIELD ORDER PROCEDURES

SECTION 01 30 00 – ADMINISTRATIVE REQUIREMENTS

SECTION 013000 - ADMINISTRATIVE REQUIREMENTS

PART 1 - GENERAL

1.1 CONTRACT ADMINISTRATION

- A. The TMSC shall be under the direct administration of The Courts. The Court's Representative or Consultant however, has been charged by the Court to provide the interpretation of the Specification and plans/drawings in the event of a dispute as to their intention. The Court's Representative or Consultant therefore shall be the TMSC's first contact in any communication regarding issues related to the specification and the contractors' responsibilities. The Court's Representative or Consultant may recommend to The Courts that the Work be stopped if, in the Court's Representative or Consultant's opinion, the work is not being performed satisfactorily. Should The Courts issue and Order to Cease Work, and Work performed after the Order to Cease Work has been issued shall not qualify for compensation.
- B. The Court's Representative or Consultant shall oversee the Work for the Government, but shall not furnish supervision of the daily construction activities. The Government shall have override power to superintend and direct the Work, and the TMSC shall perform all of the Work herein specified to the Government's entire satisfaction, acceptance. Where direction from the Government conflicts with the TMSC's understanding of the Work Scope, the Court's Representative or Consultant shall be contacted first as noted above.
- C. The TMSC shall at all times communicate to the Court's Representative or Consultant all site issues that impact the project in any way other than what has been established. Such communication shall be conveyed in written electronic format; such as email or a shared cloud work space.

1.2 TMSC AVAILABILITY

- A. The TMSC's lead installer shall at all times provide and keep possession of an active cell phone which shall be left on from 7:30 AM to 8:00 PM local time Monday through Friday and on weekends if site work is underway. The phone number of the cell phone shall be provided to the Court contact and the Court's Representative or Consultant at the Installation Kick-Off Meeting or the first day onsite. Any change to the phone number or site lead shall be communicated to the Court contact and the Court's Representative or Consultant immediately.

1.3 SIGNAGE

- A. The TMSC may not display their name or logo in any room but the non-occupied rack rooms with the exception of the control panel help screens.

PART 2 - PRODUCTS

2.1 PERMITS, LICENSE INSPECTIONS AND FEES

- A. Refer to Section 014123 "Regulatory Requirements Fees" and Section 014126 "Regulatory Requirements Permits."

2.2 RECORD DOCUMENTS

- A. Provide Record Documents as indicated in Section 017800 "Closeout Submittals."

PART 3 - EXECUTION

3.1 RIGHT OF WAYS

- A. The TMSC shall maintain all working areas in conditions that do not hamper any other trades at any time. The TMSC shall maintain all working areas in conditions that do not hamper the Owner or Tenant's use of the space during agreed on times and as outlined in the project schedule.
- B. The TMSC shall clean up all working areas prior to departure from the site for any period of time.
- C. The TMSC shall not leave materials in spaces where materials may be damaged or individuals may be harmed by tools or equipment.
- D. Where other trades hamper the TMSC work, the TMSC shall notify the Court's Representative or Consultant immediately for a resolution.

3.2 PROJECT DOCUMENTATION

- A. Conduits and electrical infrastructure: Immediately after the letter of award or completion of infrastructure installation the TMSC shall arrange with the Court to visit the site for the purpose of locating all existing conduit runs, junction boxes, and electrical outlets. During the site visit the TMSC shall verify and inspect all necessary conduits and outlets. Following the site visit the TMSC shall provide submittals to the Court's Representative or Consultant as defined in Section 013300 "Submittal Procedures." The TMSC shall also submit a list of any conduits, boxes, and power changes necessary for installation of audio – video systems in each designated room. If no changes are necessary the TMSC shall submit a statement in writing that the infrastructure is complete and ready for the equipment installation and that no changes are necessary for the equipment installation.
- B. Millwork, Casework and Furniture: On the same visit as to review electrical infrastructure the TMSC shall locate and verify all existing furniture and millwork items where equipment is to be installed. Verify and inspect all necessary mounting areas. Submit a list of any items requiring modification for installation of the systems in each area at the time of Submittals. If no changes are necessary the TMSC shall submit a statement in writing that the millwork and furniture are complete and ready for the equipment installation and that no changes are necessary for the equipment installation.
- C. The TMSC shall verify with the Court's Representative or Consultant to see if the Court's Representative or Consultant has either an Infrastructure Inspection or Installation Kick Off trip that can be taken at the same time as the above-mentioned trip. If possible, the TMSC and Court's Representative or Consultant shall be onsite at the same time for this trip.

3.3 PHOTOGRAPHS

- A. The TMSC shall not use any photographs for the purposes of marketing or other public use without prior written consent of the Court's Representative or Consultant, Users, CO and COTR. Failure to obtain this approval shall violate intellectual property rights.

3.4 SCHEDULING

- A. TMSC shall prepare at the point defined in the Project Schedule, for approval by the Court's Representative or Consultant, a construction schedule that describes the sequence and phasing of the construction work in order for the Tenant to make internal arrangements to maintain service to the public and performance of their responsibilities. Refer to Section 013300 "Submittal Procedures."

3.5 PERIODIC FIELD OBSERVATION

- A. The Court's Representative or Consultant shall reserve the right to inspect the work site at their discretion. The TMSC shall provide all field records, equipment, and personnel to inspectors as required.

3.6 PROJECT CLOSEOUT

- A. The TMSC shall comply with all closeout requirements set forth in the specification. Any departure from the schedule or sequence of requirements shall risk additional costs to the TMSC with no additional compensation from the Government.

3.7 ACCEPTANCE

- A. Refer to Section 017700 "Closeout Procedures."

3.8 INSPECTION AND TESTS

- A. Refer to Section 017500 "Starting and Adjusting", and Section 017700 "Closeout Procedures."

3.9 CONTINUITY OF SERVICE

- A. Refer to Section 011419 "Use of Site".

END OF SECTION – ADMINISTRATIVE REQUIREMENTS

SECTION 01 31 00 – PROJECT MANAGEMENT AND COORDINATION

SECTION 013100 - PROJECT MANAGEMENT AND COORDINATION

PART 1 - GENERAL

1.1 ON SITE/OFF SITE

- A. The TMSC shall comply with all scheduled onsite and off-site times as outlined in the project schedule. Any scheduling changes that need to be made shall be submitted to the Court's Representative or Consultant in writing in a timely manner. The Court's Representative or Consultant will coordinate site availability times.
- B. The TMSC shall not leave the site prior to the time outlined in the project schedule. Any change in departure times or completion times shall be submitted to the Court's Representative or Consultant in writing in a timely manner.

1.2 FULL TIME/PART TIME

- A. Part time laborers used by the TMSC shall be the sole responsibility of the TMSC and shall be held to the same standards and expectations of full-time installation crews.

PART 2 - PRODUCTS

2.1 MATERIALS

- A. The TMSC is responsible for all materials on and off the site until the project is closed.

PART 3 - EXECUTION

3.1 PROGRESS REPORTS

- A. The TMSC shall copy the Court's Representative or Consultant on all status reports sent to the Owner or others. Frequency of reports to be determined at time of Project Kick-Off conference call.

3.2 QUALITY ASSURANCE REPORTS

- A. The TMSC shall submit copies of all reports developed for Quality Assurance to the Court's Representative or Consultant.

3.3 TRAINING AND PLANNING MANAGEMENT

A. Refer to Section 017900 "Demonstration and Training."

3.4 RECORD COPY AND AS-BUILT DOCUMENTATION

A. Refer to Section 017800 "Closeout Submittals."

END OF SECTION – PROJECT MANAGEMENT AND COORDINATION

SECTION 01 31 19 – PROJECT MEETINGS

SECTION 013119 - PROJECT MEETINGS

PART 1 - GENERAL

1.1 PROJECT MEETINGS

- A. The TMSC is required to attend a mandatory preliminary walk-through inspection and meeting after contract award and prior to the project startup at no additional cost to the government (trip should be included in bid). The meeting will not be held until after project award.
- B. The TMSC is not required to be onsite for inspections but will be required to travel back to the site to complete any punchlist items resulting from inspections.

PART 2 - PRODUCTS (NOT USED)

PART 3 - EXECUTION (NOT USED)

END OF SECTION – PROJECT MEETINGS

SECTION 01 33 00 – SUBMITTAL PROCEDURES

SECTION 013300 - SUBMITTAL PROCEDURES

PART 1 - GENERAL

1.1 SUBMITTALS

- A. Fabrication or installation on the project without proper review of related shop drawings shall risk tear out and/or reprogramming at the TMSC's expense. The TMSC shall incur all costs associated with submission of shop drawing iterations and project delays. TMSC shall not delay project or charge additional costs for multiple shop drawing iterations.

1.2 SAMPLES

- A. Where samples are requested by Specification or to verify submittal information, those samples shall be made available for two (2) weeks after the date of receipt. Samples shall be duly cared for but the Tenant or Court's Representative or Consultant shall not be responsible for damage caused by testing within normal parameters or by accidents.

1.3 SHIPPING

- A. TMSC shall receive written verification from the Tenant point of contact as to the shipping address for all submittals and samples. The address may vary from the address of the point of contact or the actual job site. Submittals or samples that are lost or misplaced due to them being shipped to an unconfirmed address must be recreated or requested and resubmitted to the proper address at no additional cost to the project.

PART 2 - PRODUCTS

2.1 SHOP DRAWINGS

- A. Shop drawings shall consist of separate drawings for the index, video system(s), audio system(s), control system(s), control and power switching, connection plates, master I/O plates, rack elevations, floor and ceiling plans. Include custom pin-out connector information only if custom pin-out connectors have been previously approved. Shop Drawings shall also include the programming file for the DSP that is being implemented.
- B. Shop Drawings shall indicate that all unused connections from rack equipment are to be brought to rear of I/O panel, terminated and labeled. Certain connectors may be excluded, but only if noted in the shop drawing submittal phase.
- C. Drawings shall show all equipment with manufacturer name, model, and location of where the equipment will be placed. If multiple pieces of equipment will be located at a single location then the TMSC may group the equipment on the drawings with a dashed box with one location label.

2.2 SUBMITTALS REQUIRED

A. The following submittals are required **at the time the bid/proposal is due:**

1. The completed Bid Form in electronic format as provided by the Court's Representative or Consultant. Options, if listed and awarded, will be awarded at the time of the base bid award.
2. The Manufacturer's specification sheets (cut sheets) for each equivalent item of equipment only proposed as a substitution for an item specified.
3. A statement indicating that the Bidder understands and shall complete the requirements of this task as specified.

B. The following submittals are required **after award but prior to orders being placed:**

1. Proposed timeline for submittals, installation dates, onsite time, testing and close-out.
2. Floor and/or ceiling plan(s) showing exact plate locations designated by number.
3. Exact wiring field diagrams indicating proposed connections of all equipment indicating make and model numbers and locations of that equipment.
4. Layout of all connection plates and panels including master rear rack I/O panels.
5. Proposed control system screen and panel layout in the manufacturer's native programming file format. Other control systems if provided shall have similar electronic panel emulation files submitted.
6. DSP programming file.
7. A list of coordinated frequencies for new or updated wireless devices along with a statement that the frequencies have been verified to not be subject to interference with other existing area frequencies which could cause poor performance of the wireless devices.
8. A written Testing Plan as outlined in Section 011000.

C. The following submittals are required **after award** and according to the established Project Schedule:

1. Meeting notes from preliminary walk through of site.
2. List of field installation technicians that the TMSC intends to send to the site. This list shall include specific names of individuals who the TMSC certifies are qualified to commission audio/video systems per the specification. The Court's Representative or Consultant shall review these qualifications prior to the technicians being approved to work on this project.
3. TMSC shall prepare, for approval by the Tenant and the Court's Representative or Consultant, a detailed construction and closeout schedule that coordinates with the TMSC and describes the sequence and phasing of the construction work in order for the Tenant to make internal arrangements to maintain service to the public and performance of their responsibilities.
4. TMSC shall arrange all installation schedules and inspection dates according to the Court's Representative's and Consultant's availability.
5. Set of "Field Build" drawings and documents given to the installers at the job site.

D. The following submittals are required **before** the Court's Representative or Consultant travels for the First Inspection:

1. The TMSC shall test all UTP and STP data cables and termination installed under the project scope per the requirements outlined in Section 017500.
2. The TMSC shall provide the Court's Representative or Consultant with a written record of the final passing results using the analyzer's software provided by the analyzer's manufacturer only. The TMSC shall provide the Court's Representative or Consultant a printed format from that software converted to PDFs for

issue. The results shall not be provided to the Court's Representative or Consultant in spreadsheet or table form that has been manually assembled by the TMSC.

3. The passing test report shall be forwarded to the Court's Representative or Consultant at the time of generation for review. The report shall be issued prior to the Court's Representative or Consultant's First Inspection.
4. The TMSC shall provide the Court's Representative or Consultant with documentation detailing audio system commissioning results including, but not limited to: Gain structure and Equalization filters, RTA printouts, SPL measurements, physical adjustment settings (such as amplifier knob settings), etc.
5. Turnover of all extra fuses, spare multi-pin XLR connectors, button lamps etc.

E. The following submittals are required **after completion** of Work and according to schedule:

1. The government expects that the customized configuration code for this installation will be delivered to the government at the completion of the installation. The TMSC shall provide materials as define is Section 017800.
2. Updated and specific information on the warranty support requirements and process.

2.3 SAMPLES REQUIRED

- A. Any samples listed below are required to be submitted **after award but prior to orders being placed** according to the schedule.
 1. None required.

PART 3 - EXECUTION

3.1 EQUIPMENT ORDERING

- A. Equipment for the project shall not be ordered prior to review and acceptance of the Submittals as listed under Part 2 – Products above.

3.2 SUBMITTALS

- A. The TMSC shall submit all information/materials specified above at the times indicated by the Court's Representative or Consultant. The Court's Representative or Consultant may request additional information.
- B. Shop drawings shall be submitted to the Court's Representative or Consultant on all custom fabricated assemblies as described below. Shop drawings shall be reviewed as noted or reflected with re-submittal required by the Court's Representative or Consultant. Any resubmitted shop drawings shall have revisions clouded. After shop drawings have been approved by the Court's Representative or Consultant and Tenant and anyone else designated by the Court's Representative or Consultant, provide copies of the “Field Build” drawing set.
- C. The following items shall be reviewed by the Court's Representative or Consultant during the shop drawing submittal process:

1. Submission of all required drawings, diagrams, details, etc.
 2. Shop drawings reflect design intent as outlined in the specification.
 3. Preliminary review of the Graphical User Interface (GUI) (control screens and/or touch panel layouts). The Tenant shall review all proposed GUI's prior to final acceptance. Comments provided by the Court's Representative or Consultant shall NOT constitute approval or acceptance of a proposed GUI.
- D. The following items shall NOT be reviewed by the Court's Representative or Consultant during the shop drawing submittal process:
1. Identifying cross reference contradictions in the drawings.
 2. Comparison of listed materials to be provided per the BAFO with engineered materials submitted.
 3. Control code functional programming.
 4. DSP programming compliance
 5. Review of boilerplate connector types, pinout wiring, harness fabrication etc.
 6. Performing Engineering Quality Control (QC) on the shop drawings including, but not limited to, the following:
 - a. Identification of any item that is contradictory to pathways indicated in the specification drawings.
 - b. Tracing line by line connections throughout schematic and/or wiring diagrams.
 - c. Identifying spelling or other grammatical errors.
 - d. Identifying labeling errors (device ID's, wire numbers, part numbers, etc.).
 - e. Verifying connectors on custom connection and I/O plates.
 - f. Acknowledgement of any revision that has not been processed via formal RFI, RFQ or RFC.
- E. Court's Representative or Consultant review of the TMSC submittals, including shop drawings, shall be limited to the purpose of checking for conformance with the design concept in this specification. Submittal review by the Court's Representative or Consultant does not relieve the TMSC of its contractual responsibilities to furnish a properly engineered system that meets all requirements of this specification. The TMSC shall have the ultimate responsibility of developing the design drawings included in this specification into a fully functioning system consistent with the design concept. If any Court's Representative or Consultant review comments or lack thereof, appear to contradict the terms of the scope of work and design concept in this specification, then it is the sole responsibility of the TMSC to issue an RFI to verify the Court's Representative or Consultant or Court's intent. A design or equipment change included in the shop drawings shall not be considered an acceptable change or substitution. The only acceptable change to the design or equipment in this specification must be approved through RFQ or RFC. The RFI and RFQ/RFC processes shall supersede any shop drawing review.
- F. The TMSC shall use techniques and methods as they see fit to obtain the Design Intent outside of the Government's and Consultant's influence unless otherwise stated. Neither the Government nor the Consultant is responsible for specifying the Means or Methods by which the TMSC is to build the project unless that information is defined within the Specification. Neither the Government nor Consultant is responsible for the installation techniques, installation methods, details required for those methods, sequencing or procedure required to meet the Design Intent of the project unless that information is defined within the Specification.

END OF SECTION – SUBMITTAL PROCEDURES

SECTION 01 41 13 – REGULATORY REQUIREMENTS CODES

SECTION 014113 - REGULATORY REQUIREMENTS CODES

PART 1 - GENERAL

1.1 REGULATIONS AND CODE COMPLIANCE

- A. The Bidders are advised of their and their Subcontractor's responsibility to comply with all applicable State Statutes and codes. If any unfamiliarity exists with any applicable State Statutes and codes, it is the responsibility of the Bidder to obtain all necessary information on any and all applicable State Statutes and codes.
- B. If this document and any of the documents listed in Section 014219 are in conflict, then the more stringent requirement shall apply. All documents listed are believed to be the most current releases of the documents. The TMSC has the responsibility to determine and adhere to the most recent release when developing the Bid for installation.
- C. This document does not replace any code, either partially or wholly. The TMSC must be aware of additional local codes that may impact this project.
- D. The TMSC shall also comply with any and all regulations and codes established by the building owner and the Tenant.

PART 2 - PRODUCTS

2.1 CONCEALMENT

- A. All exposed cables, connectors and equipment connection points shall be concealed in compliance with all code and installation guidelines by project close-out. At the end of each work day during installation, all open and accessible connections over thirty (30) volts shall be covered or sealed.
- B. Power strips, cables, wire management and any other exposed elements provided by the contractor shall match as closely as possible to the background on which they are mounted. Power strips and cables installed on the rear of exposed displays and exposed racks shall be black in color.
- C. All permits and fees shall be the responsibility of the TMSC without additional cost to the government.

PART 3 - EXECUTION (NOT USED)

END OF SECTION – REGULATORY REQUIREMENTS CODES

SECTION 01 42 00 – ABBREVIATIONS & ACRONYMS

SECTION 014200 - ABBREVIATIONS & ACRONYMS

PART 1 - GENERAL

1.1 ABBREVIATIONS & ACRONYMS

A. For the purposes of this document:

1. A/E antos Architect/Engineer.
2. ALS Assistive Listening system typically infrared based.
3. ATC Audio (tele) Conferencing. More commonly referred to as Audio Conferencing.
4. AV or A/V means Audio-Visual.
5. AOUSC means Administrative Office of the United States Courts.
6. BAFO means Best And Final Offer.
7. BB means Back Board.
8. BCN means Bankruptcy Court's restricted access network.
9. BPA means Blanket Purchase Agreement.
10. CFE means Court/Client/Customer Furnished Equipment.
11. CO means Contracting Officer.
12. COTR means Contracting Officer's Technical Representative.
13. CR means Court Reporter.
14. CRD means Courtroom Deputy.
15. CTM means Courtroom Technology Manual.
16. DCN means District Court's restricted access network or Data Communications Network.
17. DSP means Digital Signal Processor — typically found in audio systems and replaces some audio mixers.
18. ECRO means Electronic Court Recording Operator.
19. EPOD means Engineering Proof of Design Form.
20. FF&E means Furniture, Fixtures, and Equipment.
21. GBF means Gain Before Feedback.
22. GSA means General Service Administration. Typically, the building owner.
23. GUI means Graphical User Interface related to control panels.
24. IT means Information Technology.
25. JERS means Jury Evidence Recording System.
26. Plaintiff also means Prosecution for the purposes of this document.
27. PDU means Power Distribution Unit.
28. PoE means Power over Ethernet.
29. Prosecution also means Plaintiff for the purposes of this document.
30. P/T/Z means Pan, Tilt and Zoom type camera.
31. RFI means Request For Interpretation/Information generated only by the TMSC.
32. RFC means Request For Change generated only by the TMSC.
33. RFQ means Request For Quote generated only by the Court's Representative.
34. RTT means the Court Reporter Real-Time Transcription system.
35. SOW means Scope of Work.
36. TELEPHONICS *Archaic*. Means Audio Conferencing.

37. TIP means Telephone Interpreting Program.
38. TMSC means Technical Media Systems Contractor (A/V Integrator/Installer/Dealer).
39. TSOW means the Technical Statement Of Work.
40. UI means User Interface. This is any control or adjustment device that a room user interacts with to operate an AV or IT system.
41. VD or V/D means Voice and Data systems or cable.
42. VOD means Video on Demand.
43. VTC means Video Tele-Conferencing more commonly referred to a Video Conferencing.

PART 2 - PRODUCTS (NOT USED)

PART 3 - EXECUTION (NOT USED)

END OF SECTION – ABBREVIATIONS & ACRONYMS

SECTION 01 42 16 – DEFINITIONS

SECTION 014216 - DEFINITIONS

PART 1 - GENERAL

1.1 DEFINITIONS

- A. Award is the agreement that the government has accepted the proposal of the TMSC and indicated such either in writing or by issuing a Purchase Order.
- B. Bidder(s) means organizations that submit a quote for all work in the Contract documents to contract prior to award.
- C. Bidding Documents are this document and any drawings or schedules issued for bid pertaining to this project.
- D. Bid Form is the Excel spreadsheet that reflects the contents of Schedule B.
- E. BPA Contract is the TMSC's or Designer's contract with the AOUSC.
- F. Building Owner is the entity or organization that owns the physical building to which rent is paid by the tenant.
- G. Court's Representative or Consultant means the Audio/Video Design Court's Representative or Consultant under Contract.
- H. Contract and Contract Documents consist of this specification, documents listed in the table of Contents, all schedules, addenda and interpretations, clarifications, corrections, or changes made by the Court's Representative or Consultant prior to the time bids are opened and properly executed written change orders after award.
- I. Court shall be a building Tenant.
- J. Courtroom Technology Manual is the AOUSC's Guideline document for recommended Court technology.
- K. Dual-Display is a feature provided in most modern video codecs that allows its hardware to access both stream channels in order to display separate images on each video output. Some Codec manufacturers referred to this feature as "People+Content" and "Duo-Video". Not to be confused with Dual-stream or Multi-point. See H.239.
- L. Final Acceptance means that the specification has been met 100% and that all punchlist items have been completed to the satisfaction of the AOUSC, Court, and Court's Representative or Consultant. Documentation is not required for Final Acceptance.
- M. H.239 is an ITU-T recommendation from the H.32x Multimedia Communications' macro-family of standards for multimedia communications over various networks. A traditional videoconference has an audio channel, a video channel, and an optional data channel. The video channel typically carries the camera image of the participants. H.239 defines rules and messages for establishing an additional video/graphics channel, often to transmit a PC graphics presentation or video from a document camera, while still transmitting the video of the presenter.

- N. Owner means the entity that holds the TMSC contract.
- O. Project Manager is the primary point of contact and person in charge of processing RFI's, RFQ's, and RFC's.
- P. Substantial Completion is a milestone in project construction where the work has been completed to a nearly complete point. Documentation, cable management, typo's on control panels, temporary plates and labels, crooked or loosely installed items, missing rack mounts, temporary equipment, unpainted housings, and poorly aimed cameras or lighting are items that can remain incomplete and still allow for Substantial Completion status. Three criteria shall be used to determine if an installation is Substantially Complete:
1. The System works 100 percent, as it needs to for daily operation – i.e., the system is completely usable as designed.
 2. Any training that is done on the system by the Court staff is 100 percent effective and all training aspects can be demonstrated, as they will be in their finished form.
 3. The AOUSC reserves the right to determine Substantial Completion to occur upon usage of the Courtroom on a case by case basis.
- Q. Tenant is the entity that is the primary user in the space where the work is done.
- R. Technical Media Systems Contractor (TMSC) means the person or organization undertaking to do the Work required by the Contract Documents.
- S. Work means all or any part of the performance of the TMSC, the TMSC's agents and subcontractors, pursuant to, and whether or not in compliance with the Standard Specifications, Drawings, Schedules, Addenda (if applicable), and BAFO letters.

PART 2 - PRODUCTS (NOT USED)

PART 3 - EXECUTION (NOT USED)

END OF SECTION – DEFINITIONS

SECTION 01 42 19 – REFERENCE STANDARDS

SECTION 014219 - REFERENCE STANDARDS

PART 1 - GENERAL

1.1 REFERENCE STANDARDS

A. All work shall comply with the following reference standards:

1. United States Court Design Guide (USCDG)
2. Court Technology Manual (CTM)
3. Federal Communications Commission (FCC)
4. National Electrical Code (NEC)
5. National Fire Protection Agency (NFPA)
6. Occupational Safety and Health Act (OSHA)
7. AVIXA CTS-I Standards and Best Practices
8. NSCA C-EST Standards and Best Practices
9. Uniform Building Code (UBC)
10. Telecommunications Industry Association (TIA)
11. Electronic Industry Association (EIA)
12. Underwriter's Laboratory (UL)

PART 2 - PRODUCTS (NOT USED)

PART 3 - EXECUTION (NOT USED)

END OF SECTION – REFERENCE STANDARDS

SECTION 01 43 00 – QUALITY ASSURANCE

SECTION 014300 - QUALITY ASSURANCE

PART 1 - GENERAL (NOT USED)

PART 2 - PRODUCTS

2.1 QUALITY ASSURANCES

- A. **New Material Quality:** All material shall be new and free from defects or damage. No refurbished or rebuilt goods shall be supplied as new, regardless of condition or warranty extension. Finishes shall be unmarred. Material shall be adequately protected during construction from dirt, dust, moisture, temperature extremes and physical damage.
- B. Where it is apparent that Equipment has been dropped, all damaged equipment and equipment affected by the drop shall be replaced with new equipment regardless of the condition.
- C. **Existing Material Quality:** Any existing material or equipment, whether associated with, within proximity of Work, reused, or turned over to the Court, whether listed in the specifications or not, must be tested for operation prior to start of project. The TMSC must obtain a letter from the Court accepting the defective condition of the material or equipment. Any such material or equipment found to be defective by the Owner or Court's Representative or Consultant during project closeout, without such a letter, shall be replaced under this contract at no additional cost to the project.

PART 3 - EXECUTION

3.1 QUALITY ASSURANCES

- A. **Installation Quality:** Quality of the installation shall be consistent with the highest standards of construction. All work shall be accomplished in a neat and orderly manner using current methods and methods recommended and/or required by the manufacturer of the equipment as qualified in its installation. Where applicable, current AVIXA CTS-I standards shall be the basis for the installation and inspections. The Court's Representative or Consultant shall be the sole arbiter of construction quality.
- B. All items installed under this contract shall comply with its manufacturer's most recent requirements, recommendations and installation standards:
 - 1. **Cable and Terminations:** Shall be suited for and approved by its manufacturer for use in the condition in which it is to be installed. The TMSC shall not violate stated restrictions and may not exceed any limits placed on cables or connectors specified by their manufacturers. This includes, but is not limited to, using the correct wire gauge calculated for the distance needed, not exceeding wire bend radius restrictions, correct use of plenum and non-plenum cables, applying proper grounding techniques, etc.

2. Equipment and Hardware: Shall be installed only in environments and conditions approved by its manufacturer. Thermal limits, mounting method recommendations, power and grounding shall be provided to comply with the manufacturer's product requirements and shall not void any factory warranties.
- C. An *individual* Installer onsite shall be directly trained and certified by the manufacturer of the digital signal processing and audio mixing equipment where it is firmware or software configurable. Support for these processors shall not only be provided during equipment assembly off site. All final room balancing and room equalization shall be performed directly and onsite by at least one certified technician. Where the contractor does not have a certified technician on staff, the contractor shall sub-contract a certified technician and provide them onsite without additional cost to the project.
 - D. Reference Standards: Refer to Section 014219.

END OF SECTION – QUALITY ASSURANCE

SECTION 01 45 00 – QUALITY CONTROL

SECTION 014500 - QUALITY CONTROL

PART 1 - GENERAL

1.1 PROOF OF PERFORMANCE

- A. Testing: All work shall be tested in a manner consistent with industry standards and otherwise as specified herein. Prior to system start up, all portions of the Work shall have a careful and thorough visual inspection to detect any erroneous or loose connections, damaged components, presence of foreign objects or materials, poor workmanship, incorrectly rated devices, or other abnormal conditions. Systems shall be examined and tested as defined in the pertinent Specification sections. Acceptance of the Work by the Owner shall be contingent upon satisfactory completion of these tests.

PART 2 - PRODUCTS

2.1 TEST GEAR

- A. Only test equipment that is capable of testing LAN and HDBT connections and terminations are allowed for use in producing the Testing Report. The following equipment has been approved for this function. Any other equipment the TMSC wishes to use must be pre-approved by the Consultant prior to testing.
 - 1. Fluke DSX CableAnalyzer™
 - 2. MSolutions MS-TestPro HDBaseT Tester
 - 3. Quantum Data 780C

PART 3 - EXECUTION

3.1 TESTING

- A. Quality control testing and correction of any found deficiencies must occur prior to the Court's Representative or Consultant traveling for any inspections. A written report including a checklist of items that have been tested shall be submitted to the Court's Representative or Consultant prior to any inspections.

END OF SECTION – QUALITY CONTROL

SECTION 01 55 00 – VEHICULAR ACCESS & PARKING

SECTION 015500 - VEHICULAR ACCESS & PARKING

PART 1 - GENERAL

1.1 VEHICULAR ACCESS & PARKING

- A. The TMSC shall coordinate all parking with the local project contact if access is needed.
- B. The TMSC shall be responsible for all Permits and Fees associated with parking and access. This shall be included in the Base Bid Amount.
- C. The TMSC shall be responsible for all payment of any fines associated with parking or driving illegally.

PART 2 - PRODUCTS (NOT USED)

PART 3 - EXECUTION (NOT USED)

END OF SECTION – VEHICULAR ACCESS & PARKING

SECTION 01 75 00 – STARTING AND ADJUSTING

SECTION 017500 - STARTING AND ADJUSTING

PART 1 - GENERAL

1.1 TESTING

- A. All materials and assemblies are to be tested and any problems corrected at the TMSC's assembly point prior to shipping where possible.
- B. System start up shall be ongoing during the installation to uncover defects.
- C. Acceptance tests may include speech intelligibility surveys and subjective evaluations by observers listening at various positions under various operating conditions using speech, music, and live or recorded effects material. Acceptance test shall include viewing of monitor images for sharpness, contrast, brightness, and color.
- D. Measurement of frequency response, distortion, noise wave form, color vector, or other characteristics may be performed (or a demonstration test requested) by the Court's Representative or Consultant in any item or group of items deemed necessary to determine conformity with criteria.

PART 2 - PRODUCTS

2.1 TEST GEAR

- A. Refer to Section 014500 for HDBT test gear requirements.
- B. The TMSC shall test all UTP and STP data cables and termination installed under the project scope using an analyzer certified for UL, ISO Level IV and ANSI/TIA-1152-A testing. All cabling and terminations must be tested and certified to work with the A/V equipment manufacturer's specifications which may deviate from ANSI/TIA testing (e.g., Extron XTP/DTP cable standards).
- C. Primary audio levels shall be testing with a commercial certified and calibrated SPL meter accurate to with +/- 1dB_{spl} set at slow response, A-weighting.
- D. Primary audio levels shall be tested with a commercial certified and calibrated pink noise generator with variable level adjustment.
- E. Video test generators should include dedicated multi-pattern generators for outputs at all used frequencies. Include both analog and digital testing where present. After master generators are used, test with real-world laptop and tablet inputs at various resolutions and computer-generated test patterns from software such as Display-Mate or as provided from Extron, etc. Test from multiple tablets and laptops and multiple inputs with a wide variety of source materials. Each device shall perform at the maximum resolution possible and should be tested and configured accordingly.

- F. The TMSC shall test all resolutions and frame rates possible in system design. This includes all standard resolutions from VGA up to 4K.

PART 3 - EXECUTION

3.1 TESTING

- A. All Work shall be tested in a manner consistent with industry standards and as otherwise specified herein. Prior to energization, all portions of the Work shall have a careful and thorough visual inspection to detect any erroneous or loose workmanship, incorrectly rated devices, or other abnormal conditions. Systems shall be examined and tested as defined in the pertinent Specification sections. Acceptance of the Work by the Owner shall be contingent upon satisfactory completion of these tests.
- B. Refer to Section 014500 for HDBT testing requirements.
- C. The TMSC shall power up each piece of equipment and shall completely test all system functions and interconnecting and distribution lines prior to the initial inspections. Signals at major system termination points throughout the system shall be tested for level and signal quality. Analyzers and scopes shall show no components of cross-modulation, beat interference, feedback, oscillations, noise products or power supply hum caused by improper levels, interconnection routing or grounds. The signal to noise ration shall be tested at major system terminations, the system output and at the last outlet on the longest branch by recording the signal strength a normal signal and then recording the signal strength with the inputs to the amplifiers terminated at rated impedance. The TMSC shall verify that all equipment and interconnections meet FCC requirements for limiting radiated interference. Conditions revealed in testing to be outside of limits shall be corrected and retested.
- D. If ground noise/hum is present, test all equipment for the Pin 1 problem. The TMSC shall be prepared to disconnect one end of the cable shield from the input side of the equipment chassis. This solution is to be used only when absolutely necessary; after all other solutions have been tried and failed.
- E. General System Performance, Tests, and Adjustments to be provided by the TMSC:
 - 1. The TMSC shall test all twisted 4-pair cables and termination installed under the project scope using an analyzer described in Part 2 above. Testing shall be used to identify faults and indicate where repairs are to be made in the system prior to the First Inspection.
 - 2. The TMSC shall provide the Court's Representative or Consultant with a written record of the final passing results as detailed under Section 013300, 2.02.
 - 3. The TMSC shall provide the Court's Representative or Consultant with documentation detailing audio system commissioning results including, but not limited to: Gain structure and Equalization filters, RTA printouts, SPL measurements, physical adjustment settings (such as amplifier knob settings), etc.
- F. Audio System Performance, Tests, and Adjustments to be provided by the TMSC:
 - 1. Load power amplifiers with resistors matching nominal impedance of output terminals used in system in place of actual loudspeaker loads.
 - 2. Adjust gain controls as for hum and noise level test.
 - 3. Apply 250, 500, 1,000, 2,000, and 4,000 Hz sine wave signal from oscillator having less than .01% THD to each microphone and line level input at level required to produce full amplifier output.

4. Set up system for each specified mode of operation to measure parasitic oscillation and FR pickup.
5. Use an oscilloscope with a 5 MHz bandwidth and speaker monitoring.
6. Check to ensure that the system is free of spurious oscillation and RF pickup in the absence of any input signal and also with the system driven momentarily to full output at 160 Hz.
7. Repeat this test for each mode of operation of the lighting dimmers (incandescent, neon, HID, and fluorescent) where present.
8. Apply high quality music from audio CD or MP3 player and adjust volume for peak output.
9. Apply sine wave sweep. Listen carefully for buzzes, rattles, and objectionable distortion.
10. Correct all causes of such defects. If cause is outside system, promptly notify the Court's Representative or Consultant indicating cause and suggested corrective procedures.
11. Equalize the sound systems in order to provide uniform seat-to-seat response, raise the threshold of feedback, suppress ring modes, and insure natural, pleasing sound in equal and adequate amplitude with maximum degree of intelligibility, and provide performance conforming to requirements of design.
12. Equalization shall be adjusted for flat response within $\pm 2\text{dB}_{\text{spl}}$ from 125 Hz to 2 kHz. Rolloff of 3dB per octave above 2 kHz is acceptable.
13. Adjust all items of similar equipment for identical measured voltage gain.
14. All microphone and line level inputs in any speech amplification system shall be initially calibrated for a pre-defined default output level when a System Reset command is applied. Additional levels will be refined during system inspections. The power up sequence should not change the levels from the last use levels. The pre-defined level shall be as outlined herein:
 - a. The pre-defined default calibration output level of any speech amplification system shall produce an optimal overall level approximately $+20$ to 25dB_{spl} above the noise floor when measured A-weighted with a calibrated test microphone placed one (1) meter (39") above the finished floor. *Note that it is critical to measure ambient noise of the room with HVAC "on" to simulate live usage of the room and take these measurements into consideration when calibrating the system as described above.*
 - b. The pre-defined default calibration level of any masking signal amplification system shall produce approximately $+50$ - 55dB_{spl} when measured A-weighted with calibrated test equipment at the target ear-plane. Where there is a jury box, place calibration microphone at ear location of center juror in front jury row of jury box. Level shall not deviate more than $\pm 2\text{dB}_{\text{spl}}$ throughout jury box. Otherwise, measure at primary lectern location. Further adjustments may be needed after inspections.
 - c. Input to test calibration shall be a standard calibrated 1K sine wave tone connected to input connections near the source devices.
 - d. Test all 2-channel or stereo inputs that are provided either separately or on TRS 3-conductors with individual channel test tones. Using monaural test generators may mask true function.
15. Unless otherwise specified, use tamper-proof security covers on all controls affecting overall system level balance and signal-to-noise ratio, such as power amplifier input level control, and input-output level controls for equalizers, mixers, amplifiers, etc. Some controls may require re-adjustment as the result of acceptance testing.

G. Video System Performance, Tests, and Adjustments to be provided by the TMSC:

1. Picture shall be evaluated for image stability, lock-up time, brightness, convergence, sharpness, and color.
2. Picture shall be evaluated for Proper EDID performance and color space.
3. System will be evaluated for matched video resolutions that shall be consistent throughout the system.

3.2 TERMINATION POINT LABELING

- A. Appropriate labeling shall be supplied on all devices. Handwritten labels will not be acceptable.
- B. Provide engraved or printed labels for all floorboxes in high contrast between the background and the lettering. Engrave exposed plates as required for user clarity.
- C. All J-boxes above carpet level shall only be provided with directly engraved or directly silk-screened labels. Adhesive or window slip-in style plastic or paper labels are absolutely unacceptable on any plate where AV or media technology functions are present.

3.3 RACK AND EQUIPMENT LABELING

- A. Provide printed physical removable labels on the front of equipment rack. Labels shall include references to system documentation including, but not limited to, frame numbers, patch bay numbers, patch point labels, device IP addresses, data switch IDs, etc.
- B. Label all user adjustable settings within the user rooms that have a preferred calibrated setting.
- C. Label correct setting on all volume and tone controls of loudspeakers that can be adjusted by users.

3.4 CABLE LABELING

- A. Provide labels shall employ a code and relate to the Project Record Drawings. The Record Reference alphanumeric developed for the project shall not be used on more than one (1) cable project wide. All cables inside rack or cabinet enclosures and all cables outside rack or cabinet enclosures over 1 meter in length shall be provided with matching Record Reference Code labels at both ends. Labels shall be applied no farther than 8” from the end connector over the cable jacket.

END OF SECTION – STARTING & ADJUSTING

SECTION 01 77 00 – CLOSEOUT PROCEDURES

SECTION 017700 - CLOSEOUT PROCEDURES

PART 1 - GENERAL

1.1 ACCEPTANCE

- A. The TMSC shall coordinate with the Court's Representative or Consultant dates that the TMSC will be completing work at the site. Dates shall be established by the point determined in the Project Schedule. Changes to dates that have been agreed upon shall not be accepted.

1.2 WARRANTY

- A. The first year Base Bid Warranty starts near the close-out of the project at Final Acceptance. The Warranty start date should be agreed upon by the Tenant and the TMSC. If the Tenant and TMSC cannot reach a consensus of when the warranty starts, they should defer to the AOUSC for assistance.

PART 2 - PRODUCTS

2.1 EQUIPMENT CLOSEOUT PROCEDURES

- A. All exposed cables, connectors, and equipment connection points shall be concealed in compliance with all code and installation guidelines by project closeout.
- B. The TMSC shall remove and discard all temporary materials and construction that may be required prior to project closeout.
- C. Protective covers and films shall be removed and discarded.
- D. Where possible within the occupied spaces, remove decals, labels and logos that do not assist with device operation.
- E. Spare materials such as lamps, special adjustment tools, software, remote controls, unused cable, and accessories shall be deliberately turned over to the Owner near project closeout. Materials shall not be simply left in the project area.
- F. The TMSC is responsible for obtaining a written signature from the Court's Representative at the time that spare, unused and/or loose materials transfer ownership. Any equipment that is later unaccounted for will be the responsibility of the TMSC to replace at no additional cost to the project if a written record of the transfer cannot be produced.

2.2 DE-INSTALLATION OF ABANDONED EQUIPMENT AND MATERIALS

- A. Remove all unused cabling, wiring, and umbilicals unless otherwise noted.
- B. The TMSC shall remove all existing equipment at the work site that is not to be functional after completion of the project. Turn over all equipment and parts to the Owner. The TMSC shall log all equipment and parts turned over to the Tenant. The Tenant shall sign for each piece acknowledging acceptance of each piece of equipment and its condition. Failure to obtain signature of equipment turn over to the Tenant will risk liability of TMSC to replace at no additional charge any equipment that is lost or damaged.
- C. Remove and cover back boxes at all connection plates that are no longer functional. Where plates are reused or have partial function, remove unused function and re-label plates.
- D. Remove all plates that have no function and replace with a metallic blank plate in a similar color to the plate that was removed, or a color that is in better keeping of the aesthetic of the surrounding area.
- E. Remove all labels, signage, and tags of equipment and cables that are no longer functional.

PART 3 - EXECUTION

3.1 CLOSE OUT PROCEDURES

- A. The TMSC shall officially notify the Court's Representative or Consultant in writing when they are or will be Substantially Complete. Only after receiving written notification, will the Court's Representative or Consultant schedule travel to the site for inspections to determine if the system is substantially complete pursuant to the Contract. Notifying the Court's Representative or Consultant of an expected future completion date shall not be considered an official notification. The TMSC is not required to be present at this inspection.
- B. The TMSC shall officially notify the Court's Representative or Consultant in writing when they finish all punchlist items that were generated by the Tenant and the Court's Representative or Consultant during the inspections. *Only after receiving official written notification*, will the Court's Representative or Consultant schedule travel to the site for additional inspections to determine if the system is ready for final acceptance.
- C. The TMSC shall provide a written status report at the conclusion of work directed through inspection reports. The report from the TMSC shall provide a line-by-line response explaining the action taken on the inspection reports. The report from the TMSC will be evaluated by the Court's Representative or Consultant and Court to determine if subsequent inspections are ready to be scheduled.
- D. The TMSC shall not perform any work on the system while it is being inspected by the Court's Representative or Consultant.
- E. The TMSC shall provide up to four (4) control code and GUI *feature or functionality* revisions as needed after review of the installed system. This does not include corrections to faulty code found during the testing outlined in Part 3 of Section 017500 or faulty code found during inspections. The control system must be free of defects as it was to be provided based on the last submittals required in Section 013300.
- F. Acceptance of the Systems shall be based on two criteria:
 - 1. Substantial Completion: Providing inspections of the installed systems do not necessarily define the system as Substantially Complete. Inspection Reports provided by the Court's Representative and/or the Consultant

are provided to establish the functionality of the system at the time of inspection. Accordingly, a list of items provided on any inspection cannot be considered final and all-inclusive as subsequent inspections of the system prior to acceptance may uncover new problems that previously did not exist or have changed in nature. Programming revisions by the TMSC required to meet Substantial Completion, which only includes programming as it was to be provided based on the last submittals required in Section 013300 and with the additional limited number of revisions as defined above, shall be provided in any quantity needed until the Systems reach Substantial Completion. Multiple inspections may also be required, by either the Court's Representative and/or the Consultant, to determine if all system functions and control meet the Substantial Completion's required functionality.

2. Meeting Final Acceptance: Additional revisions required by the TMSC shall continue until they reach Final Acceptance. The TMSC shall provide additional iterations for the Final Acceptance items of programming for individual processors and each control panel device in a given room as needed to reach Final Acceptance. Programming revisions cannot be expected to occur prior to the 1st site inspection and until after the TMSC has brought the control system on-line in the project room thereby making the system testable. Also, the Final Acceptance revisions as noted above cannot be expected to occur until the control system is Substantially Complete. These revisions shall be provided prior to project close-out at no additional cost to the government up to the maximum number of iterations indicated.

END OF SECTION – CLOSEOUT PROCEDURES

SECTION 01 78 00 – CLOSEOUT SUBMITTALS

SECTION 017800 - CLOSEOUT SUBMITTALS

PART 1 - GENERAL

1.1 CLOSE OUT SUBMITTALS

- A. TMSC shall receive written verification from the Court point of contact as to the shipping address for all closeout submittals. This address may vary from the address of the point of contact or the actual job site. Submittals that are lost / misplaced due to them being shipped to an unconfirmed address must be recreated and re-submitted to the proper address at no additional cost to the project.

PART 2 - PRODUCTS

2.1 RECORD COPY AND AS-BUILT DOCUMENTATION

- A. Manuals and Publications: The media systems TMSC shall provide the manuals and publications with the following inclusions:
 - 1. All materials and procedures as described in Section C.6 of the BPA contract.
 - 2. O&M Manuals: Provide one (1) O&M Manual in electronic format on a labeled USB flash drive containing editable files where possible to the Court's Representative or Consultant per the Project Schedule. All information must be accurate as per written acceptance. Each USB Drive shall contain the following required materials in the below subfolders:
 - a. Subfolder labeled "O&M Manual"
 - 1) An index of the contents of the O&M Manual.
 - 2) Operating instructions for all system functions whose format has been compiled specifically for each system. Providing standard factory equipment operating instructions alone is not acceptable. Delete pages from attachments that have no useful information.
 - 3) Troubleshooting procedures for Operating Personnel.
 - 4) Troubleshooting procedures for Court Technical Support Staff.
 - 5) All other updated materials provided during training session except completed quizzes.
 - 6) Numerical values for all control settings and photographs or other graphic representation of all visible adjustments and all accessible switches indicating correct position for properly calibrated operation.
 - b. Subfolder labeled "Test Results"
 - 1) Report of the final passing LAN and HDBT test results using analyzer's software provided by the analyzer's manufacturer only. The report shall be provided in the format produced by the analyzer directly and converted to .PDF format. Date tested, testing gear used and other details

shall accompany the Report. Exported reports from the analyzer (such as spreadsheets) may be included, but only in addition to the report produced directly by the analyzer.

- c. Subfolder labeled "Complete Parts Lists" (other than consumables).
 - 1) A list of serial numbers of equipment installed, where provided.
 - 2) A list of all equipment installed (excluding mounting accessories and wire management)
 - 3) A list of items turned over to the Owner such as cables, hand held remote controls, unused mounting accessories, etc.
- d. Subfolder labeled "IP Addresses"
 - 1) A list of all IP addresses implemented in the systems and the purpose for each.
- e. Subfolder labeled "Drawings"
 - 1) "As-Built" (project record drawings) schematic wiring diagrams of all systems with labeled equipment and wiring.
 - 2) Rack layouts, plate fabrication drawings, and all non-standard connector pin configurations.
 - 3) Patch bay and punch block schedules: Equipment signal patch bay tables (if any have been specified) shall be provided, descriptively listing, in a non-technical fashion, all signals related to ultimate source or destination.
 - 4) Printable drawings in common format such as PDF.
- f. Subfolder labeled "Manufacturers' Manuals"
 - 1) Operation and installation manuals for each component. PDF's of manuals shall be separated into individual folders per manufacturer. (Example: Folder name "Manufacturer A", all manuals from Manufacturer A shall be included in this folder. All manuals from Manufacturer B shall be included in a folder named "Manufacturer B").
- g. Subfolder labeled "Programming"
 - 1) Provide both compiled and un-compiled custom programming files that contain all control and audio software configurations with additional setup configurations captured from web interfaces, etc. Provide custom programming, and files in the manufacturer's native program format.

PART 3 - EXECUTION

3.1 FINAL O&M MANUALS

- A. Once the O&M Manuals are considered "Technically Acceptable" by the Court's Representative or Consultant, the TMSC shall submit one (1) final copy of the O&M Manuals to the Court's Representative or Consultant in electronic format containing PDF, AutoCAD, HTML, Programming, control and control panel layout files in the manufacturer's native program format. Provide electronic copies on a labeled USB flash drive.

B. Hard copies are not required.

END OF SECTION – CLOSEOUT SUBMITTALS

SECTION 01 78 36 – SUPPORT & WARRANTIES

SECTION 017836 - SUPPORT & WARRANTIES

PART 1 - GENERAL

1.1 SUPPORT

- A. Control System program and control screen layouts shall be reviewed by the Court's Representative or Consultant with final approval provided by the Court.

1.2 WARRANTY

- A. The first year Base Bid Warranty starts near the close-out of the project at Final Acceptance. The Warranty start date should be agreed upon by the Tenant and the TMSC. If the Tenant and TMSC cannot reach a consensus of when the warranty starts, they should defer to the AOUSC for assistance.
- B. The TMSC shall provide warranty and maintenance support for the minimum duration of one (1) year as required by the TMSC's BPA Court Technologies contract as part of the base bid. This work shall be performed at no additional cost to the Government.
- C. The Tenant, at its option, may elect to exercise the option to continue warranty/maintenance service for one-year increments, up to a maximum of the number of years included in the Bid Form.

PART 2 - PRODUCTS

2.1 EQUIPMENT

- A. Warranties shall be provided for all equipment for the duration of the warranty period, including the initial warranty period and any additional optional warranty period extensions (the total warranty period). All OEM warranties shall be passed through to the Tenant. Where OEM warranties fall short of the total warranty period the warranties shall be extended to meet the total warranty period. Where OEM warranties extend past the total warranty period, the OEM warranty information shall be turned over to the Tenant.

2.2 SOFTWARE & FIRMWARE

- A. The TMSC shall proactively keep all of the installed systems' software and firmware based products up to date through the warranty period. If the court staff is unable to assist the TMSC by installing the updates themselves, then the TMSC shall be onsite to install the software and/or firmware. In either case, the TMSC shall contact the Point of Contact at the Court when each update is published and schedule an installation time for the duration of the warranty.

PART 3 - EXECUTION

3.1 WARRANTY

- A. Where equipment, software, or a system is operating improperly, operating defectively, or malfunctions, it shall be repaired or replaced within forty-eight (48) hours of the initial call requesting service. An assessment of cost impact will be discussed if failure to completely resolve the problem within forty-eight (48) hours impedes, suspends, or otherwise negatively impacts use of the system.
- B. Provide a toll free telephone number, which the Tenant can call to obtain warranty/technical assistance as required by the TMSC's BPA Court Technologies Contract.
 - 1. This number shall be displayed onsite in the following locations:
 - a. In an easily accessible "help" page on all control software control panels.
 - b. On all laminated operation instruction sheets.
 - c. In all operation and maintenance manuals
 - d. On label adhered or secured to all equipment racks, mobile equipment carts, and all other locations where substantial processing equipment is installed.
 - e. This number shall be available to the Tenant from 8:00 am to 8:00 pm, Eastern Time, Monday through Friday, Government Holidays excluded. Each phone call shall be answered within ten (10) rings either by a live attendant or automated attendant which will, at a minimum, record the caller's name, telephone number, the item of equipment or software in question, and a brief description of the nature of the support required. A qualified technician with the means to address the nature of the inquiry shall respond to each call within two (2) hours of placement of the call.
- C. Provide Warranty/Maintenance Service Report on a monthly basis to the Tenant and the Court's Representative or Consultant for the duration of the warranty period, including any additional optional warranty period extensions as required by the TMSC's BPA Court Technologies contract. The report shall list all maintenance/servicing/training support calls made by the Tenant, the time requested, the response time, and the corrective action taken.
- D. The Tenant shall be able to access the equipment racks after Final Acceptance without voiding the warranty.

3.2 RESPONSE

- A. Warranty support shall be provided as defined within the terms of the TMSC's BPA Court Technologies contract. The warranty terms and support access instructions shall be reviewed by the Court.

END OF SECTION – SUPPORT & WARRANTY

SECTION 01 79 00 – DEMONSTRATION AND TRAINING

SECTION 017900 - DEMONSTRATION AND TRAINING

PART 1 - GENERAL

1.1 TRAINING

- A. A TMSC representative shall be onsite for training and participate in it. The Owner requires that a knowledgeable person skilled in training presentation be scheduled to provide instruction.
- B. Where special skills are required for training, the TMSC shall provide additional training personnel as needed. This may include training specialist and/or factory personnel.
- C. Training shall *not* be scheduled or *rescheduled* if any aspect of the system to be reviewed is not functioning or incomplete.

PART 2 - PRODUCTS

2.1 TRAINING MATERIALS

- A. Trainer shall have enough printed copies of the hand-outs as needed for the number of personnel that are registered for the training.
 - 1. Handouts shall include:
 - a. Sign-up sheet (Handed in)
 - b. Quick Reference Guides/training session summary for all positions (Kept by trainee)
 - c. Troubleshooting procedures (For each target group- kept by trainee)
 - d. Quiz (Handed in for live scoring and comment and returned to trainee)
 - e. Trainer evaluation form marked to indicate that trainee name is anonymous. (Handed in)

PART 3 - EXECUTION

3.1 TRAINING PLANNING MANAGEMENT

- A. A written training schedule plan must be submitted to the Court's Representative or Consultant and the Court in writing prior to training in order to be considered valid training. The Court must approve the training schedule. The participants shall not be expected to schedule training with less than 21 working days' notice.
- B. Demonstrations of control panels where present shall be done by loading all control panel screens onto a laptop and displaying the laptop video through the evidence presentation system where present. Individual training shall also be provided at the actual control panel.

- C. Training shall not be held until after systems and programming are completely operational and in final operating condition. The training must provide for proper usage of the entire system. The TMSC shall assume that operational personnel have no prior experience with the operation of the systems being installed.
- D. It shall be the responsibility of the TMSC’s trainer to quiz and interactively determine if the provided training is effective. Prepare a quiz that is handed out before training starts to help ensure trainee participation. Trainer may allow trainees to answer quiz as the session progresses. The TMSC is responsible for effective training. Ineffective training will result in repeated training without additional compensation.
- E. TMSC training personnel shall adhere to appropriate business casual attire during training sessions. Business casual attire does not include any of the following: shorts of any kind, ripped clothing, jeans, T-shirts, any attire with writing/Logos other than the Trainer’s company logo, baseball caps, tennis shoes, or sandals.
- F. Training shall consist of two different types of training sessions, *Operating Personnel* and *Court Staff Technical Support Personnel* for the described durations.
- G. *Operating Personnel* User training shall be held as follows:

Room / Area	Number of Users in each session	Number of sessions	Hours in each session	Total number of hours
Courtroom 442	6	1	2	2

- 1. User training shall be for those individuals who regularly use the systems but not necessarily service or maintain the systems. Training shall be non-technical with emphasis on common terms and user comfort with the systems.

- H. *Court Staff Technical Support Personnel* Technical Training shall be held as follows:

Room / Area	Number of Users in each session	Number of sessions	Hours in each session	Total number of hours
Courtroom 442	3	1	2	2

- 1. Technical training shall be hands-on training for select personal that will be determined by the Owner to maintain service and/or operate the systems from specific control stations.

- I. Evaluation by the trainer of how effective the training has been.

3.2 TRAINING SESSIONS

- A. Prior to starting each session, the trainer shall advise *Operating Personnel* trainees that they will be asked to demonstrate certain functions that were included in the training in order to evaluate retention levels.
- B. The Trainer shall communicate training information using non-technical terms and phrases. Avoid AV Industry abbreviations and acronyms.

- C. The TMSC shall provide *Operating Personnel* with adequate user training on the completed system so that they can perform standard duties and perform rudimentary troubleshooting in the project rooms per the government's expectations.
- D. Operational training must be provided onsite in the room(s) where the systems have been installed. One room may be used to train for several rooms if the rooms are functionally identical.
- E. The Trainer shall ensure that *Operating Personnel* trainees are actively involved in a hands-on laboratory training session and not a lecture.
- F. *Operating Personnel* training shall be organized by User's position and not by system category. Technical terminology is to be avoided in the operational training sessions.
- G. Train on preliminary troubleshooting procedures for *Operating Personnel* with handout. Intent is to determine specific information of a problem and rectify without contacting the Court's Technical Support Staff. (i.e. user error or very simple hardware fix). If contacting the Court's Technical Support Staff is deemed necessary, the procedure should also train the Operating Personnel how to describe the issue accurately so the Court's Technical Support Staff can explore the problem further. A separate yes/no flow-chart is recommended for the audio systems and the video systems.
- H. The "user" trainees shall receive training on subjects including but not necessarily limited to the following:
 - 1. Announce that will be a hands-on quiz scored at the end of the training.
 - 2. Thirty minutes minimum of simulated Court use with key users of the system working in their typical roles. The trainer shall simulate the functions of the judge and attorney during this practice.
 - 3. Different types of users and show the locations of their respective stations and including different physical configurations or modes of operations.
 - 4. The video display locations and the types of materials which might be carried on each display. Where implemented, demonstrate videoconferencing monitors vs. evidence presentation monitors and how H.239 content is displayed and utilized.
 - 5. A demonstration of the use of applicable equipment and system "tools" located at each user station.
 - 6. Q&A period with answers to any questions posed by the trainees. Forward any comments about the system functionality to the Court's Representative or Consultant for review.
- I. The TMSC shall provide *Court Staff Technical Support Personnel* with adequate training on the operation and architecture of the systems so that they can perform system troubleshooting and provide effective corrective action at a system level when systems are not functioning nominally.
- J. Technical support training must be provided onsite in the room(s) where the systems have been installed. Individual rack rooms shall be visited during training where they differ.
- K. Train on preliminary troubleshooting procedures for *Court Technical Support Personnel* with handout. Intent is to provide information that would allow the support technician isolate a problem to the audio, video or control system. Information would also be provided to further isolate the problem to a hardware or software issue. If hardware, provide information on how to isolate to a specific component before contacting the system warranty support contact or the TMSC supporting the system if out of warranty.
- L. The Technical Training shall receive training on subjects including but not necessarily limited to the following:

1. An overview of the same topics covered in *Operating Personnel* training with an emphasis on how-to further train the end users.
2. Demonstration of day-to-day function and operation of equipment/components including equipment settings and use of any applicable setup software.
3. A summary of major cable paths throughout the facility including conduit/raceway destinations and cable pull locations and access routes.
4. Thorough instruction on how to interpret and utilize the Project Record Drawings and Owner's Manuals (listed elsewhere herein).
5. Symptoms of common problems and their respective resolutions or any relevant system troubleshooting tactics.
6. Demonstrations on restarting, resetting, and determining source of component level failures.
7. Procedures to take prior to and after severe weather or power problems.
8. A summary of the maintenance/repair services provided under this contract and the BPA contract, contact names and phone numbers for repair.
9. Answers to any questions posed by trainees.

END OF SECTION – DEMONSTRATION & TRAINING

DIVISION 27 – COMMUNICATIONS

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SECTION 27 41 16 – INTEGRATED AUDIO-VIDEO SYSTEMS AND EQUIPMENT

SECTION 274116 - INTEGRATED AUDIO-VIDEO SYSTEMS AND EQUIPMENT

PART 1 - GENERAL

1.1 ALL SYSTEMS

- A. Provide and install all cables, wire harnesses, and pigtails as required for complete system audio, video, and control systems as described herein, even where future equipment is not purchased or provided. Provide cable runs terminated where possible that are required to or from equipment connected from rack, distribution point, and switcher and/or connector plates in order to provide for a quick installation of mobile, temporary, or rented equipment at any point in designed systems, even though one end of run may not be terminated.
- B. All installation work and materials shall comply with AVIXA CTS-I Best Practices.

1.2 ROUGH-IN

- A. Where equipment is indicated as future or identified as an option, all cables indicated for such device(s) shall be installed in a rough-in condition *ONLY* when specifically listed in Schedule B. Indicate rough-in cables on the Project Record Drawings. Terminate equipment where equipment is provided by others. Provide and install connection plates where rough-in cables terminate on plates even where equipment is not being provided. Provide control for all future equipment in the control panel pages and in control system.

1.3 CUTTING AND PATCHING

- A. The TMSC shall be responsible for cutting and patching where it has not been provided by others. Where Work trade site restrictions exist, the TMSC shall notify the Court's Representative or Consultant in writing within Ten (10) days of the initial site inspection of Work trade limitations observed. Where Non-Work trade conflicts exist and/or where the TMSC has not notified the Court's Representative or Consultant within the Ten (10) day period, the TMSC shall not be additionally compensated for any cutting and patching required to complete the Work and the cutting and patching shall become part of the scope of the contract.

PART 2 - PRODUCTS

2.1 EQUIPMENT LIST

- A. See Schedule A - Equipment Information / List
- B. See Schedule B – Equipment List

2.2 MISCELLANEOUS SUPPORTS

- A. Mounting techniques that rely only on adhesives are only acceptable where the device is above the mounting surface. Any location where gravity will work against the mount, the technique is not acceptable and will be rejected.
- B. The TMSC shall provide shims, brackets, hook and loop fasteners, and other supports as required for a stable and neat installation.
- C. The TMSC shall install hook and loop fasteners on 4-pair cables. Zip-ties are not acceptable. Provide black color hook-and-loop fasteners in occupied spaces and a color, other than black, to be in contrast with the cable bundle color where they are installed in unoccupied spaces.
- D. The TMSC shall provide only hook-and-loop fasteners under all furniture and millwork areas where cable is attached to a movable device (i.e. microphones, touch panels, etc.). The hook-and-loop fasteners shall be mounted unobtrusively at one end of the fastener strip below the millwork or furniture and it is to allow for user adjustment of cable length without use of tools.
- E. The TMSC shall not cut or drill into exposed finishes unless specified or unless given permission by the Owner.
- F. Provide bolts for all wall and ceiling mounted equipment in excess of 11.3 kg (25 lbs.) to four (4) times dead weight or shear force, whichever is greater. Additionally, all ceiling mounted equipment in excess of 4.5 kg (10 lbs.) shall be provided with safety chain or cable to withstand five (5) times total equipment weight.

PART 3 - EXECUTION

3.1 AUDIO SYSTEMS

- A. The master mixing system shall be configured, setup, and calibrated onsite with a manufacturer's certified technician that is directly employed by the DSP's manufacturer. The certified technician shall not permit another non-certified technician to make adjustments or perform final system alignment in their stead. The Court's Representative or Consultant shall be the sole arbiter of the quality of the certification.
- B. Program bases in desktop gooseneck microphones for push-on/push-off at all locations except the attorney tables. The attorney tables shall be set for push-and-hold-to-mute. Set all switches to power-up microphones to be on.
- C. Dedicated line-level analog audio inputs shall be provided at the witness, lectern and each attorney table.
- D. Provide sidebar conference function. When active, only the attorney table microphones, and bench area boundary microphones shall be active. These shall be routed only to the assigned recording channel and to all wired headset connections except for the witness headphone connection. The witness headphone shall be sent white noise.
- E. Sidebar microphone audio shall not be sent out of the room with the exception of the audio connection for the holding cell. All other out of room feeds including audio and videoconference sound shall be sent white noise.
- F. Provide wired in-room interpreter connections and functions, Remote Interpreter functions using only one phone line and IR headsets and TIP function per the TIP standard with four (4) phone lines with four (4) wireless transceiver systems as defined.

1. A "Local Interpreter" shall be one that provides oral language interpretation to the Court. The Local Interpreter shall be situated within the courtroom itself, electrically connected to the courtroom with wired technology without the use of a telephone or data line. Provide connection at point indicated. Interpreter control shall have both a private and broadcast/public toggle button near the interpreter. When in private mode, provide function so that Channel 2 of the IR system hears the interpreter when speaking in a non-English language. Channel 2 of the IR system is the only destination. Setting on the cordless listening set shall be able to send the Channel 2 signal to both ears. The sound from the Interpreter is routed to no other locations. When in broadcast/public mode, the interpreter's boomset microphone shall be heard in the courtroom as well as routed to all locations that the defense table microphones are being routed to when unmuted. This is the mode to use when the Interpreter needs to speak back to the entire courtroom and other locations in English.
2. A "Remote Interpreter" configuration shall be provided. This is one that provides oral language interpretation to the Court. The Remote Interpreter shall be only electrically connected to the courtroom via a single telephone or VoIP line and is typically outside the courthouse. Control function is to turn Remote Interpreter function on and off individually for each telephone line with "Remote Interpreter ON/[Off]" toggle. The toggle shall be available to the courtroom deputy or other control system operator. If Biamp VoIP is being utilized, enable Biamp "DCI" functionality to allow far end control of the toggle. When on, provide function so that Channel 2 of the IR system hears the remote interpreter when speaking in a non-English language. Channel 2 of the IR system is the only destination. Setting on the cordless listening set is able to send the Channel 2 signal to both ears. The sound from the Remote Interpreter is routed to no other locations. When off, the telephone line functions as a standard audio conference call. This is also the mode to use when the Remote Interpreter needs to speak back to the entire courtroom in English.
3. The "TIP" system is to be implemented with a routing matrix similar to the existing with ability to route to TIPS microphone/headsets or PA audio.

G. Audio transcription shall be provided as defined below:

1. The system shall be configured for FTR recording via USB interface. Channel assignment shall be as follows:
 - a. Channel 1: Active Judge and CRD microphone, sidebar microphone(s)
 - b. Channel 2: Active witness microphone.
 - c. Channel 3: Defense and presenter cart microphones.
 - d. Channel 4: Prosecution microphones, wireless, evidence, audio and video conferencing audio, and all TIP audio channels.
2. Recording shall follow microphones' and other sources' mute status. i.e., if the audio source is muted or off by any manner, it shall *not* be recorded.

H. Setup mix-minus zones as indicated on audio, floor and ceiling plan drawings.

I. Re-wire ceiling speakers where required to support new zones.

J. Re-connect 70V chambers speakers to receive "Chambers" audio signal.

K. While testing with live voices, test as end users will use the system; typically, with marginal to poor microphone techniques. Maximize GBF.

3.2 VIDEO SYSTEMS

- A. Configure video presentation segment of video system for 4K resolution.
- B. Configure and program video signal flow to provide break-away video routing for each individual output of video router.
- C. Provide three (3) evidence publishing zones as they are identified on the floorplans.
- D. Provide full control over codec and cameras.

3.3 CONTROL SYSTEMS

- A. Provide control system interfaces as defined.
 - 1. Provide unique programming for three (3) Arduino Raspberry Pi Touch controls panels that are being provided as CFE. Panels shall be similar to other Court projects where these have been implemented.
 - a. Provide two (2) styles: one style for the judge and one style for other users.
 - 2. Provide separate and unique programming for five (5) XPanels to operate on CFE.
 - a. Provide two (2) styles: one style for the judge and one style for other users.
- B. Provide control for all systems as defined. Configure and program the control system and matrix mixer according to the overall design of the system. This includes but is not necessarily limited to the following parameters.
 - 1. DSP Interface: Provide remote control of automatic microphone mixer and signal processor to integrated control system. Provide protocol translation as required for complete control of all mixer functions and all individual input level controls via integrated control system. Provide access to each input and output control on control panels under password/code protection.
 - 2. Overall Gain: Shall be readily accessible control and shall control the gain of all loudspeaker outputs simultaneously. Control of noise masking output level shall be provided separately. Where direct outputs have been provided to drive loudspeakers, direct outputs shall also track with overall room gain and with room mute functions.
 - 3. Individual Gains: Shall be provided for line and microphone level sources and individual outputs such as loudspeaker zones, individual recording channels, and audio/video conference send and receive. All settings to be controlled under the reset function.
 - 4. Wireless Mic On/Off: Shall mute the Wireless Microphone inputs from the receiver at the matrix mixer when set to "Off". When set to "On" the system shall open the Wireless Microphone inputs. The default state for this control on system start-up shall be "On".
 - 5. Judge Mic/Lav: Shall mute the Judge's Microphone input and open the Judge's Lavalier input when set to "Lav". When set to "Mic" the system shall open the Judge's Microphone input and mute the Judge's Lavalier input. The default state for this control on system start-up shall be "Mic".

6. Witness Mic/Lav: Shall mute the Witness' Microphone input and open the Witness' Lavalier input when set to "Lav". When set to "Mic" the system shall open the Witness' Microphone input and mute the Witness' Lavalier input. The default state for this control on system start-up shall be "Mic".
7. "Out of Room" On/Off: Function shall be provided to stop audio from traveling outside the visible perimeter of the courtroom and chambers. When "Out of Room" is off, no feeds shall be routed to the USMS, streaming server. When function is enabled, audio will mute on sidebar. The Chambers On/Off function is separate and independent of the Out of Room function,
8. "Chambers On/Off": Function shall allow sound to be switched on or off to chambers independent of "Out of Room" function. In-ceiling speakers are to be reused.
9. Individual Gain: Shall be provided for all input and output channels. These shall control the gains of each of the individual inputs and outputs separately. These include all
10. Telephone Interface: Provide programming in control system. Provide all audio conference interface functions, including but not limited to caller volume control, mute, speed dial, call setup, number entry clear, flash, and redial. Provide dialer for each phone line provided. Utilize VOIP capability on DSP. Program shall allow full DTMF functionality for bridge line dialing in excess of 10-digit connection along with other post-connection control options.
11. Telephone number display: The dialer screen shall passively show the four (4) assigned 10-digit numbers for the courtroom.
12. Telephone Interface IR/Broadcast Display: Any phone dialer screen shall show "IR" and "PA" switch on screens for all lines selected for use when the Remote Interpreter feature is active. When any phone line is set for standard audio conference, the dialer screen for that telephone line shall not display the "IR" or "PA" options. Default setting for incoming sound should be set to route to the PA system only. All interpreter and general audioconference mixed to reporter headset regardless of the IR or PA destination selected.
13. Incoming audio conference calls: Maintain interface setup control on control panels so that the system accepts incoming calls but does not ring audibly within the courtroom. Provide control programming such that the bench area control screens flash a pop-up indicator that an incoming call is being received. The visual alert on the control screen(s) shall graphically cover 75% of the display area and flash in contrasting images to alert Court staff as to call status. Mute all inbound and outbound audio when mute function is enabled and when "Bench Conference" is enabled. Provide both an "answer" and "hang-up" control on the pop-up screen.
14. Video conference audio: Program shall allow full DTMF functionality for bridge line dialing in excess of 10-digit connection. Provide "dot" control for IP address direct entry.
15. Incoming video conference calls: Show incoming call on evidence zone E1 monitors only. Where monitors are showing a source other than the codec when the call rings, switch E1 monitors only to show native codec incoming call screen. The call shall not ring audibly in the courtroom. Zone E2 and E3 monitors shall not switch automatically.
16. Bench Conference: Provide gain control to bench conference system so that when activated, control system will adjust gain of noise masking system and input volume of boundary and (active) judge microphone.

Bench conference gain control shall be programmed as a steady ramp up and down. Judges Mic/Lav and boundary microphone(s) to be mixed to reporter headset, FTR record, and all wired headphone feeds.

17. Automatic Video Publishing Mute Function: Provide selection switch on main control panels to enable or disable the “Auto Publish” mode. The function is intended to set a system operating mode that allows automatic publishing to the courtroom monitors in evidence zone 2 (E2) and higher (E3) of a video evidence source. Court staff shall be able to enable and disable the “Auto Publish” feature at any time; however, the design intent of this switch shall be used to set a typical condition for a particular hearing, for a day or for an entire trial. The selected mode is not intended to be varied each time video evidence is presented or changed during the course of testimony presentations.
 18. When “Auto Publish” mode is disabled, any change of source (such as changing from PC presentation to an Evidence Camera presentation) shall automatically display the Court Seal to all monitor zones higher than zone one (E1). Audio from any source that has audio shall be muted to all destinations unless all monitor zones are published.
 19. When “Auto Publish” mode is enabled, changes of sources selected shall instantly switch all monitor zones to the new source without judge or court staff intervention. Any selection of evidence on any courtroom control panel shall immediately publish to all zones. Audio associated with the evidence shall also be published (un-muted) at this time. In this mode neither the Judge nor court staff shall be required to intervene and publish to monitor zones higher than zone 1 (E1).
 20. At any time, any control panel shall be able to toggle publish or un-publish separately on zones higher than zone 1 (E2 and E3). An “all-publish” button to publish to multiple zones shall not be provided. Label each display toggle button for each zone such as “Witness Publish On/[Off]” and “Jury/Gallery Publish On/[Off]”. Provide a “publish/un-publish” button toggle for zone 2 and a “publish/un-publish” button toggle for zone 3. The system shall not have separate “video mute”, “all publish”, or “all mute” function control.
 21. Auto Publish shall be enabled each time after a system reset. The mode shall not be changed when the system is powered on.
 22. Graphics Generator: Obtain high resolution graphics from Court. Provide the following video screens on the graphics generator to be controlled by the system automatically under selected conditions as defined.
 - a. Unpublished Source: Display Court seal to all zones higher than zone 1 for use when evidence presentation system is not to display an evidence source. Within the Seal graphic, provide a small indication of the courtroom name and number.
 - b. Bench Conference Graphics: Provide and select to display on all zones a full screen graphic that reads “Private Bench Conference is Active” over a Court Seal during bench conference mode only. After bench conference is ended, return to the last shown source input and restore audio. Within the Seal graphic, provide a small indication of the courtroom name and number.
- C. Provide Master Reset function: Provide in code so that users can, at any time, reset the system to the last calibrated state as intended by the AV Integrator. This reset shall NOT be automatically initiated at each power-up sequence. Every controlled device shall have action or actions that are called under this function. All reset functions listed below, and timing sequences are approximate and shall be verified and reprogrammed as required for the shortest timing possible. This will occur during project engineering and programming stages, based upon actual equipment used and according to Court preferences. The following sequence actions shall commence when the Master Reset sequence is selected in the order listed:

1. All microphones shall be muted. Phantom power lights shall douse.
2. The control system shall call a “blank” preset in the audio matrix in order to disconnect all inputs from routing to any output.
3. Audio conference hybrid shall be placed on-hook.
4. The bench conference mode shall be turned off.
5. All mixers shall be reset to the original stored, calibrated, and approved settings for all mixer functions.
6. Out of room audio shall be turned off.
7. USMS audio shall be turned off.
8. Chambers audio feed may be set to default on (or off based on judicial preference).
9. The transcription playback input shall be muted.
10. Videoconference/ audio conference systems shall be placed on-hook and muted.
11. The control system shall call the normal room configuration audio matrix preset routing all nominal inputs and outputs.
12. Control panels shall return to home page.
13. Presentation lectern and table items shall be set to “on”, regardless of the original power state.
14. Evidence camera stage lamps shall be turned on.
15. Provide programming for proper resolution on all displays.
16. All switches feeding evidence monitors in all zones shall be selected to have the Court seal displayed from a graphics storage device.
17. The annotation system shall clear the memory buffer and reset.
18. The control system shall call the normal operating room configuration matrix preset routing all nominal inputs and outputs.
19. Control panels shall return to home page.
20. All microphones shall be un-muted, with the exception of the lavalier and all wireless microphones, which shall be muted. Phantom power is to be restored. Once the phantom power is restored, the reset sequence shall be fully complete with its cycle.

21. Automatic system shutdown feature. System shall commence the shutdown feature each night of the week at 9:00 pm local time. The system shall automatically adjust for daylight savings time twice yearly. A warning screen at 8:45PM shall be provided that the system will power off at 9:00 pm. A “cancel” button shall be provided. If canceled, the system will not attempt an automatic shutdown until the next evening.
- D. Provide controlled power on/off sequencing as defined.
- E. Configure the control systems for the following functions to comply with the overall power switching design intent.
 1. Configure rack power hardware connections and control as follows to provide required function of power zones and control:
 - a. Program power switching to startup in audio-only mode. All monitors and displays used for evidence or video conferencing shall remain “off” or in standby mode.
 - b. Provide method to add video system power-on sequence when system has been initially started in audio-only mode. Two (2) features shall be provided:
 - 1) When any video evidence source is selected for publishing to evidence zone 1 or higher, the selection shall power-on the entire video system.
 - 2) The user shall at any time be able to return to the power on/off screen and switch the video power zone off.

END OF SECTION – INTEGRATED AUDIO-VIDEO SYSTEMS AND EQUIPMENT

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SCHEDULE A
SCHEDULE A - EQUIPMENT LIST / INFORMATION

PLEASE SEE ATTACHED

Base Bid

AV System

This equipment is located: 4th Floor Courtroom 442

This equipment is shown on drawing: TA601

- 1001 Amplifier, 1:1x10 or 2:1x5 balanced audio distribution
Provide and install amplifier. Split inputs and outputs for individual output mixes required. Set gain structure through entire system and include DA in adjustments.
Recommended Equipment Kramer Electronics Ltd. VM-1610
or Equivalent:
- 1002 Amplifier, 100 watt 8 channel 70V audio power
Provide and install 70V multi channel power amp into equipment rack. Unit shall not have volume control adjustments on front panel. Provide rack mount kit if none provided with equipment. Connect audio inputs and outputs as detailed in specifications, to allow for proper zoning of room. Calibrate with room audio system to provide maximum gain before feedback.
Recommended Equipment QSC Audio CX108V
or Equivalent:
- 1003 Amplifier, 8-channel high-power headphone distribution
Provide and install headphone amplifier. Bridge inputs at individual inputs as required and calibrate levels for full range of monitoring levels at headset locations.
Recommended Equipment Behringer (Music Group) Powerplay PRO-8 HA8000
or Equivalent:
- 1004 Base, Tabletop switchless XLR mount microphone
Provide and install stand for vertical array microphone where cutout is not possible.
Recommended Equipment Audio-Technica AT 8615
or Equivalent:
- 1005 Card, 2 line VoIP interface
Provide and install all components needed for working DSP as indicated.
Recommended Equipment Biamp Systems SVC-2
or Equivalent:
- 1006 Card, 4 channel mic/line input with acoustic echo cancellation input
Provide and install all components needed for working DSP as indicated.
Recommended Equipment Biamp Systems SEC-4
or Equivalent:
- 1007 Card, 4 channel server output
Provide and install all components needed for working DSP as indicated.
Recommended Equipment Biamp Systems SOC-4
or Equivalent:
- 1008 DSP, Fixed AEC 12x8 with USB
Provide and install fixed DSP solution. Arrange connections between frames to maximize processor efficiency.
Recommended Equipment Biamp Systems TesiraFORTÉ AVB CI
or Equivalent:
- 1009 Extender, AVB to USB
Provide and install extender at a location within five (5) feet of USB device to be connected.
Recommended Equipment Biamp Systems EX-UBT
or Equivalent:

- 1010 Loudspeaker, 70V 2-Way surface mount slim
Provide and install additional speakers in the jury box at locations where the CFE speakers were not covered.
Recommended Equipment Innovox Audio, LLC SL-2.1 US-70V
or Equivalent:
- 1011 Loudspeakers, Pair of satellite bracket mount 16 ohm black
Provide and install speakers at bench areas. Mount to surfaces after verification of locations with consultant. Tilt speakers up when mounted to ensure listener is on-axis to speaker coverage center. Provide miscellaneous hardware needed
.
Recommended Equipment JBL Professional Control 52-BLK
or Equivalent:
- 1012 Microphone, 2-way wireless lapel
Provide and configure wireless microphone with base system. Label each microphone to match control panel for assignments.
Recommended Equipment Yamaha 01-HDEXEMIC-11
or Equivalent:
- 1013 Microphone, Corridor effect vertical
Provide and install at locations indicated. Exact placement to be determine by testing prior to permanent installation.
Recommended Equipment Beyerdynamic North America Classis RM 30 729.388
or Equivalent:
- 1014 Microphone, Omni directional preamplified boundary
Provide and install bench conference microphone. Configure routing of microphone to fully muted at input blocks until a bench conference is active. The microphone shall not be part of an automixer. Set mute control for push-and-hold-to-mute.
Recommended Equipment Shure Incorporated MX393/O
or Equivalent:
- 1015 Microphone, Single muff wired headset with boom
Provide and install headphones with all the necessary cables and equipment required. Adapt to CFE handheld box.
Recommended Equipment Telex Communications, Inc. PH-88R5
or Equivalent:
- 1016 Microphone, 18" Supercardioid desktop
Provide and install wired microphone at locations indicated. Program microphone mute control where provided for desired function as directed by court staff. Provide light duty cable management. Where microphone is regularly removed from table or connection boxes, provide only hook-and-loop fasteners attached to furniture for quick removal and to promote re-use.
Recommended Equipment Shure Incorporated MX418D/S
or Equivalent:
- 1017 Mount, 1RU dual frames rack
Provide and install rack mounting kits. Check model number before ordering.
Recommended Equipment Kramer Electronics Ltd. RK-1
or Equivalent:

- 1018 Mount, RM30/31 microphone black flush shock
Provide and install in area identified and confirmed by Consultant and Court. Drill hole and provide additional hardware as needed.
Recommended Equipment Beyerdynamic North America GMS-32
or Equivalent:
- 1019 Panel, Umbilical cable with interpreter box and control
Provide and install interpreter control box. Provide custom connections and pin configurations for cable and connectors provided. Provide switching functions as defined in specification.
Recommended Equipment Quantum 1952 Interpreter Control (P/N 001952)
or Equivalent:
- 1020 Server, 48 channels of I/O and 1 DSP card with AVB interface
Provide and install all components needed for working DSP as indicated.
Recommended Equipment Biamp Systems SERVER-IO AVB
or Equivalent:
- 1021 Switch, 5-Port AVB
Provide and install AVB data switch. Isolate from court network.
Recommended Equipment MOTU AVB Switch 9305
or Equivalent:
- 1022 Transceiver, 4-channel HD and Charger w/o microphones
Provide and install wireless transceiver in rack near top. Locate antennas as needed for best transmission and reception.
Recommended Equipment Yamaha 01-HDEXEC4-NM
or Equivalent:
- 1023 Transformer, 70V 7.5 Watt 1.25W/2.5W/5W/7.5W
Provide and install transformers at loudspeakers not fitted with transformers from supplier. Locate transformers as close as possible to voice coils as space permits. Tap for appropriate levels
Recommended Equipment AMK Innovations Inc. T70V7.5W
or Equivalent:

This equipment is shown on drawing: TA602

- 1024 Amplifier, 1x4 HDMI 4K distribution
Provide and install amplifier at locations shown.
Recommended Equipment Crestron Electronics HD-DA4-4K-E
or Equivalent:
- 1025 Annotator, 4K 5 USB input HDCP compliant
Provide and install annotation system. Verify compatibility with USB extenders and hub and touch monitors prior to ordering and revise part numbers as needed. Configure control points on touch screens and calibrate. Label touch screen bezels for control point functions.
Recommended Equipment Williams AV AN C5P Annotation PRO Plus
or Equivalent:
- 1026 Blade, 1 Channel 4K HDMI input
Provide and install input card in video router as shown on drawings.
Recommended Equipment Crestron Electronics DMC-4KZ-HD
or Equivalent:

- 1027 Blade, 1 Channel 3G-SDI input
Provide and install input card in video router as shown on drawings.
Recommended Equipment Crestron Electronics DMC-SDI
or Equivalent:
- 1028 Blade, 1 Channel 4K DM input
Provide and install input card in video router as shown on drawings.
Recommended Equipment Crestron Electronics DMC-4KZ-C
or Equivalent:
- 1029 Blade, 2 Channel 4K DM output
Provide and install output card in video router as shown on drawings.
Recommended Equipment Crestron Electronics DMC-4KZ-CO-HD
or Equivalent:
- 1030 Blade, 2 Channel Scaling HDMI 4K output
Provide and install output card in video router as shown on drawings.
Recommended Equipment Crestron Electronics DMC-4KZ-HDO
or Equivalent:
- 1031 Camera, 1080p HDMI PTZ video conferencing
Provide and install camera on mount at locations indicated. Provide all control function required through codec and control system.
Recommended Equipment LifeSize Communications Camera 10x
or Equivalent:
- 1032 Camera, Evidence/document 4K tabletop presentation
Provide and install evidence camera. Provide all remote control function available on control system panel(s) with advanced controls on less accessed control screens. Program unit to power on with lights when video system is powered on.
Recommended Equipment Elmo Mfg. Corp. PX-30 (1364)
or Equivalent:
- 1033 Codec, Rack mount dual display VTC
Provide, install, configure and test codec. Provide both legacy and H.239 functionality in the courtroom. Provide mode option on control panels to switch between modes.
Recommended Equipment LifeSize Communications ICON 800 Dual display codec only 1000-0000-1182
or Equivalent:
- 1034 Display, 58" 4K LCD flat
Provide and install display at location indicated. Provide all accessory mounting adapters as needed for this model as part of this CLIN. Provide all connections and control in control system. Configure to operate at maximum resolution. All cables exposed shall be black or covered in black loom. All exposed power strips to be black.
Recommended Equipment Planar EP5824K
or Equivalent:
- 1035 Firmware, Custom touch screen interface
Provide custom firmware if required to ensure compatibility of specified touch screen monitor and annotation processor. Neither the annotation device nor the touch monitor shall be ordered until compatibility can be assured.
Recommended Equipment Custom Custom
or Equivalent:

- 1036 Frame, 32x32 DM empty router
Provide, install and configure router frame.
Recommended Equipment Crestron Electronics DM-MD32x32-CPU3
or Equivalent:
- 1037 Labels, Set of annotation monitor function
Provide set of three (3) labels with black text on white removable background label and mount on monitor bezel corners. Text on first label shall read "Undo". Text on Second label shall read "Color". Text on third label shall read "Clear". Apply to appropriate corners of all annotation monitors.
Recommended Equipment Custom Custom
or Equivalent:
- 1038 Monitor, 23.8" 4K 100x100 VESA mount
Provide and install monitor on mounts as needed at locations indicated. Turn over extra monitors not indicated on drawings to Court for their use.
Recommended Equipment Dell Computer Corporation P2415Q
or Equivalent:
- 1039 Monitor, USB interface 4K 24" touch
Provide and install touch monitor in locations as shown on drawings. Connect to evidence presentation system and route to video zones as indicated on drawings. Connect to annotation processor and program for full annotation functionality. Install bezel labels where they are required.
Recommended Equipment CyberTouch O4K2480U
or Equivalent:
- 1040 Mount, Black camera wall
Provide and install camera on wall facing bench area. Frame for bet hot a directed by Court IT staff.
Recommended Equipment PTZOptics HCM-1-BLK
or Equivalent:
- 1041 Mount, Black single pivot LCD monitor
Provide and install monitor mounting adapter. Verify proper VESA mounting specification prior to ordering monitor or mount. Remove OEM mount and turn over to Court for storage.
Recommended Equipment Ergotron, Inc. 47-092-800
or Equivalent:
- 1042 Player, HDMI 4K Media and video graphic
Provide and install media player. See specifications for requirements for graphics to b e provided and selected by control system.
Recommended Equipment BrightSign XD1034
or Equivalent:
- 1043 Processor, AV multi-input recorder and H.264 streaming
Provide and install streamer. Program routing as described in specification.
Recommended Equipment Extron Electronics SMP 351 (60-1324-01)
or Equivalent:
- 1044 Receiver, Black wall plate 4K DM 8G room controller
Provide and install receiver in jury box and for gallery monitors.
Recommended Equipment Crestron Electronics DM-RMC-4K-100-C-1G-B-T
or Equivalent:

- 1045 Receiver, DigitalMedia 8G scaler and room controller
Provide and install at location shown and configure per manufacturer's instructions. Provide mounting accessories as needed for each location. Configure EDID per manufacturer's directions.
Recommended Equipment Crestron Electronics DM-RMC-4K-SCALER-C
or Equivalent:
- 1046 Splitter, 1 HDMI looped x 4 DM TP
Provide and install splitter in rack. Configure as needed.
Recommended Equipment Crestron Electronics DM-DA4-4K-C
or Equivalent:
- 1047 Stand, 100x100 low profile VESA monitor table
Provide and install on desktop monitors
Recommended Equipment Ergomart EGT SL102-100
or Equivalent:
- 1048 Stand, Flat base 4-7' adjustable height black flat panel display
Reuse existing stand on jury side of courtroom. See keyed notes on drawings.
Recommended Equipment Chief Manufacturing Inc. PF1UB
or Equivalent:
- 1049 Supply, Custom camera central rack-mount power
Provide power supply in rack to remotely power PTZ cameras where no local power will be available. Calculate load based on power cable distance prior to order. The cameras shall be powered with the voltage and current required by the manufacturer.
Recommended Equipment Custom Custom
or Equivalent:
- 1050 Transmitter, 8G with VGA and 2 HD input switching DM
Provide, install;; and configure switcher at location shown as needed.
Recommended Equipment Crestron Electronics DM-TX-401-C
or Equivalent:
- 1051 Transmitter, HDMI to DM
Provide and install at location shown and configure per manufacturer's instructions. Provide mounting accessories as needed for each location.
Recommended Equipment Crestron Electronics DM-TX-4KZ-202-C
or Equivalent:
- 1052 Transmitter, 1G 4K 8G+ HDMI to DM white
Provide and install at camera locations. Provide back box with cover plate or mounting plate where one has not been provided. Flush into ceiling or soffit or install above ceiling. Verify location and mounting technique with Court prior to installation. Transmitter shall be powered from main rack only.
Recommended Equipment Crestron Electronics DM-TX-4KZ-100-C-1G-W-T
or Equivalent:

This equipment is shown on drawing: TA603

- 1053 Casters, Set of 4
Provide and install casters on bottom of rack according to manufacturer's instructions.
Recommended Equipment Middle Atlantic Products CBS-MRK-31
or Equivalent:

- 1054 Engine, Large capacity control
Provide and install integrated control system processor in equipment rack. Provide rack mount kit if none provided with equipment. Provide all cables, connectors, and equipment service loops as required for a complete and operational system. Control system shall be programmed for multiple control locations as detailed in specifications. Program processor using newest version of manufacturer software available. Control panel layouts provided in specifications have been initially approved by end user, and shall be matched as closely as possible. Provide control panel layouts for review and approval during shop drawing phase as detailed in specifications. If provided control panel layouts have been matched, contractor shall be responsible for no more than two iterations during review process after initial submittal. If provided control panel layouts have not been matched, contractor is responsible for all iterations required until approved. All control panel functions and page layouts must be submitted for review and approval by Court and Consultant prior to installation as detailed in specifications.
Recommended Equipment Crestron Electronics AV3
or Equivalent:
- 1055 Extenders, Pair of USB 2.0 50m on UTP
Provide and install USB data extender as indicated. Provide plate connections. Provide all adapters and cable under this item as required.
Recommended Equipment Icron USV Ranger 2301
or Equivalent:
- 1056 Hub, One extension location with 4-port
Provide and install USB extender. Connect to hub and extend to USB device to be connected.
Recommended Equipment Icron Ranger 2304
or Equivalent:
- 1057 PDU, Power receptacle panel rack mount
Provide and install power strip in rack. Mark switch on front for proper operation. Control system and charger base to be routed for full time power and is not to be controlled by front panel switch.
Recommended Equipment Middle Atlantic Products PD-915R
or Equivalent:
- 1058 Programming, Control system processor(s)
Program control system per specifications. Provide control for main Xpanels as well as a separate Technical Director control for wireless PC.
Recommended Equipment Crestron Electronics N/A
or Equivalent:
- 1059 Rack, 40RU x 31" D gangable equipment
Rack shall have open sides and no doors.
Recommended Equipment Middle Atlantic Products MRK-4031
or Equivalent:
- 1060 Relay, 15A controlled stand alone 2 outlet 120VAC power
Provide and install power switch as required for power savings. Provide separate control for audio and video components that can be safety turned on and off.
Recommended Equipment Middle Atlantic Products RLM-15-1CA
or Equivalent:
- 1061 Strip, 20 outlet 15A NEMA 5-15 plug power
Provide and install plug strip in back of rack. Connect equipment as indicated on drawings. Connect input of plug strip to UPS or other main power source as indicated on drawings.
Recommended Equipment Middle Atlantic Products PDT-2015C-NS
or Equivalent:

1062 Switch, 48 port 48 1K plus 4 10Gb data

Provide, install and configure LAN switch to connect to AV equipment and court network. Configure in basic mode and do not configure for VLAN.

Recommended Equipment Cisco Systems, Inc. SG500X-48-K9-NA
or Equivalent:

1063 UPS, 2150 VA 8 20A outlet IP enabled with battery backup rack mountable

Provide and install UPS in main equipment rack as shown on drawings. Install in bottom of rack for seismic considerations. Provide all mounting accessories as required if not already included.

Recommended Equipment Middle Atlantic Products UPS-2200R-8IP
or Equivalent:

This equipment is shown on drawing: TA701

1064 Box, 2-Gang black surface mount wall back

Provide and install back box for plate. Install flush on surface. Remove all devices no longer needed. Provide dark color light duty raceway as part of this item. Coordinate and include other existing wiring in area. Install plate on back box. Locate at appropriate location for connections.

Recommended Equipment Extron Electronics EWB 102 (60-1162-02)
or Equivalent:

1065 Plate - See Drawings for Details

Provide and install custom connection plate to be located at corresponding numbered location on floor plans. Locations shown on floor plans may vary slightly from actual field conditions and shall be verified prior to fabrication of plate. Provide back box enclosure as required for surface mount installations. See specifications for required connections. Submit custom plate design for review and approval prior to fabrication. Provide cables to plate with hook-and-loop cable ties.

Recommended Equipment Custom N/A
or Equivalent:

This equipment is shown on drawing: TA702

1066 Box, 2-Gang black surface mount wall back

Provide and install back box for plate. Install flush on surface. Remove all devices no longer needed. Provide dark color light duty raceway as part of this item. Coordinate and include other existing wiring in area. Install plate on back box. Locate at appropriate location for connections.

Recommended Equipment Extron Electronics EWB 102 (60-1162-02)
or Equivalent:

1067 Plate - See Drawings for Details

Provide and install custom connection plate to be located at corresponding numbered location on floor plans. Locations shown on floor plans may vary slightly from actual field conditions and shall be verified prior to fabrication of plate. Provide back box enclosure as required for surface mount installations. See specifications for required connections. Submit custom plate design for review and approval prior to fabrication. Provide cables to plate with hook-and-loop cable ties.

Recommended Equipment Custom N/A
or Equivalent:

This equipment is shown on drawing: TA703

1068 Box, 2-Gang black surface mount wall back

Provide and install back box for plate. Install flush on surface. Remove all devices no longer needed. Provide dark color light duty raceway as part of this item. Coordinate and include other existing wiring in area. Install plate on back box. Locate at appropriate location for connections.

Recommended Equipment Extron Electronics EWB 102 (60-1162-02)
or Equivalent:

1069 Plate - See Drawings for Details

Provide and install custom connection plate to be located at corresponding numbered location on floor plans. Locations shown on floor plans may vary slightly from actual field conditions and shall be verified prior to fabrication of plate. Provide back box enclosure as required for surface mount installations. See specifications for required connections. Submit custom plate design for review and approval prior to fabrication. Provide cables to plate with hook-and-loop cable ties.

Recommended Equipment Custom N/A
or Equivalent:

This equipment is shown on drawing: TA704

1070 Box, 2-Gang black surface mount wall back

Provide and install back box for plate. Install flush on surface. Remove all devices no longer needed. Provide dark color light duty raceway as part of this item. Coordinate and include other existing wiring in area. Install plate on back box. Locate at appropriate location for connections.

Recommended Equipment Extron Electronics EWB 102 (60-1162-02)
or Equivalent:

1071 Plate - See Drawings for Details

Provide and install custom connection plate to be located at corresponding numbered location on floor plans. Locations shown on floor plans may vary slightly from actual field conditions and shall be verified prior to fabrication of plate. Provide back box enclosure as required for surface mount installations. See specifications for required connections. Submit custom plate design for review and approval prior to fabrication. Provide cables to plate with hook-and-loop cable ties.

Recommended Equipment Custom N/A
or Equivalent:

This equipment is shown on drawing: TA705

1072 Box, 2-Gang black surface mount wall back

Provide and install back box for plate. Install flush on surface. Remove all devices no longer needed. Provide dark color light duty raceway as part of this item. Coordinate and include other existing wiring in area. Install plate on back box. Locate at appropriate location for connections.

Recommended Equipment Extron Electronics EWB 102 (60-1162-02)
or Equivalent:

1073 Plate - See Drawings for Details

Provide and install custom connection plate to be located at corresponding numbered location on floor plans. Locations shown on floor plans may vary slightly from actual field conditions and shall be verified prior to fabrication of plate. Provide back box enclosure as required for surface mount installations. See specifications for required connections. Submit custom plate design for review and approval prior to fabrication. Provide cables to plate with hook-and-loop cable ties.

Recommended Equipment Custom N/A
or Equivalent:

This equipment is shown on drawing: TA706

1074 Box, 2-Gang black surface mount wall back

Provide and install back box for plate. Install flush on surface. Remove all devices no longer needed. Provide dark color light duty raceway as part of this item. Coordinate and include other existing wiring in area. Install plate on back box. Locate at appropriate location for connections.

Recommended Equipment Extron Electronics EWB 102 (60-1162-02)
or Equivalent:

1075 Plate - See Drawings for Details

Provide and install custom connection plate to be located at corresponding numbered location on floor plans. Locations shown on floor plans may vary slightly from actual field conditions and shall be verified prior to fabrication of plate. Provide back box enclosure as required for surface mount installations. See specifications for required connections. Submit custom plate design for review and approval prior to fabrication. Provide cables to plate with hook-and-loop cable ties.

Recommended Equipment Custom N/A
or Equivalent:

This equipment is shown on drawing: TA707

1076 Box, 2-Gang black surface mount wall back

Provide and install back box for plate. Install flush on surface. Remove all devices no longer needed. Provide dark color light duty raceway as part of this item. Coordinate and include other existing wiring in area. Install plate on back box. Locate at appropriate location for connections.

Recommended Equipment Extron Electronics EWB 102 (60-1162-02)
or Equivalent:

1077 Plate - See Drawings for Details

Provide and install custom connection plate to be located at corresponding numbered location on floor plans. Locations shown on floor plans may vary slightly from actual field conditions and shall be verified prior to fabrication of plate. Provide back box enclosure as required for surface mount installations. See specifications for required connections. Submit custom plate design for review and approval prior to fabrication. Provide cables to plate with hook-and-loop cable ties.

Recommended Equipment Custom N/A
or Equivalent:

This equipment is shown on drawing: TA708

1078 Box, 2-Gang black surface mount wall back

Provide and install back box for plate. Install flush on surface. Remove all devices no longer needed. Provide dark color light duty raceway as part of this item. Coordinate and include other existing wiring in area. Install plate on back box. Locate at appropriate location for connections.

Recommended Equipment Extron Electronics EWB 102 (60-1162-02)
or Equivalent:

1079 Plate - See Drawings for Details

Provide and install custom connection plate to be located at corresponding numbered location on floor plans. Locations shown on floor plans may vary slightly from actual field conditions and shall be verified prior to fabrication of plate. Provide back box enclosure as required for surface mount installations. See specifications for required connections. Submit custom plate design for review and approval prior to fabrication. Provide cables to plate with hook-and-loop cable ties.

Recommended Equipment Custom N/A
or Equivalent:

This equipment is shown on drawing: TA728

1080 Box, 2-Gang black surface mount wall back

Provide and install back box for plate. Install flush on surface. Remove all devices no longer needed. Provide dark color light duty raceway as part of this item. Coordinate and include other existing wiring in area. Install plate on back box. Locate at appropriate location for connections.

Recommended Equipment Extron Electronics EWB 102 (60-1162-02)
or Equivalent:

1081 Plate - See Drawings for Details

Provide and install custom connection plate to be located at corresponding numbered location on floor plans. Locations shown on floor plans may vary slightly from actual field conditions and shall be verified prior to fabrication of plate. Provide back box enclosure as required for surface mount installations. See specifications for required connections. Submit custom plate design for review and approval prior to fabrication. Provide cables to plate with hook-and-loop cable ties.

Recommended Equipment Custom N/A
or Equivalent:

This equipment is shown on drawing: TA782

1082 Plate - See Drawings for Details

Provide and install custom connection plate to be located at corresponding numbered location on floor plans. Locations shown on floor plans may vary slightly from actual field conditions, and shall be verified prior to fabrication of plate. Provide back box enclosure as required for surface mount installations. See specifications for required connections. Submit custom plate design for review and approval prior to fabrication.

Recommended Equipment Custom N/A
or Equivalent:

This equipment is shown on drawing: TA784

1083 Plate - See Drawings for Details

Provide and install custom connection plate to be located at corresponding numbered location on floor plans. Locations shown on floor plans may vary slightly from actual field conditions and shall be verified prior to fabrication of plate. Provide back box enclosure as required for surface mount installations. See specifications for required connections. Submit custom plate design for review and approval prior to fabrication. Provide cables to plate with hook-and-loop cable ties.

Recommended Equipment Custom N/A
or Equivalent:

This equipment is shown on drawing: TA807

1084 Mount, Black single pivot LCD monitor

Provide and install VESA mounts at jury box monitors. Center over the existing slots and mount as low as possible.

Recommended Equipment Ergotron, Inc. 47-092-800
or Equivalent:

1085 Post, Jury box mount and monitor

Provide and install custom jury post for rear jury box row. Space at increments shown on floor plan. Verify height and mounting location on upper or lower riser(s) with consultant and court prior to fabrication. Verify if a 5th post is needed for the jury seats in the front row nearest the witness. If monitor is to be wall-mounted at that location, do not order post and credit bid amount back to project.

Recommended Equipment Custom N/A
or Equivalent:

Client Furnished Equipment

AV System

This equipment is located: 4th Floor Courtroom 442

This equipment is shown on drawing: TA601

1086 Emitter, Black or White , 2.3/2.8 MHZ

Reconnect existing emitter system and test. Report any defects to Court.

Recommended Equipment Phonic Ear PE600E (Verify Color)
or Equivalent:

1087 Microphone, Supercardioid Lavalier

Reuse microphone. Provide cable extension and storage hook under countertop.

Recommended Equipment Shure Incorporated WL184
or Equivalent:

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SCHEDULE B - EQUIPMENT LIST

PLEASE SEE SEPARATE BID FORM

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The equipment listed on this page is for the Base Bid

RECOMMENDED BRANDS AND MODELS WITH APPROXIMATE QUANTITIES

CLIN	Item	Make/Model or Equivalent	Qty
1000	EQUIPMENT/MATERIAL		
Base Bid			
AV System			
4th Floor Courtroom 442			
Audio System Functional Requirements * Refer to drawing TA601			
1001	Amplifier, 1:1x10 or 2:1x5 balanced audio distribution	Kramer Electronics Ltd. VM-1610	2
1002	Amplifier, 100 watt 8 channel 70V audio power	QSC Audio CX108V	1
1003	Amplifier, 8-channel high-power headphone distribution	Behringer (Music Group) Powerplay PRO-8 HA8000	1
1004	Base, Tabletop switchless XLR mount microphone	Audio-Technica AT 8615	3
1005	Card, 2 line VoIP interface	Biamp Systems SVC-2	2
1006	Card, 4 channel mic/line input with acoustic echo cancellation input	Biamp Systems SEC-4	5
1007	Card, 4 channel server output	Biamp Systems SOC-4	5
1008	DSP, Fixed AEC 12x8 with USB	Biamp Systems TesiraFORTÉ AVB CI	1
1009	Extender, AVB to USB	Biamp Systems EX-UBT	1
1010	Loudspeaker, 70V 2-Way surface mount slim	Innovox Audio, LLC SL-2.1 US-70V	5
1011	Loudspeakers, Pair of satellite bracket mount 16 ohm black	JBL Professional Control 52-BLK	3
1012	Microphone, 2-way wireless lapel	Yamaha 01-HDEXEMIC-11	4
1013	Microphone, Corridor effect vertical	Beyerdynamic North America Classis RM 30 729.388	3
1014	Microphone, Omni directional preamplified boundary	Shure Incorporated MX393/O	2
1015	Microphone, Single muff wired headset with boom	Telex Communications, Inc. PH-88R5	1
1016	Microphone, 18" Supercardioid desktop	Shure Incorporated MX418D/S	7
1017	Mount, 1RU dual frames rack	Kramer Electronics Ltd. RK-1	1
1018	Mount, RM30/31 microphone black flush shock	Beyerdynamic North America GMS-32	3
1019	Panel, Umbilical cable with interpreter box and control	Quantum 1952 Interpreter Control (P/N 001952)	1

The equipment listed on this page is for the Base Bid

RECOMMENDED BRANDS AND MODELS WITH APPROXIMATE QUANTITIES

CLIN	Item	Make/Model or Equivalent	Qty
1020	Server, 48 channels of I/O and 1 DSP card with AVB interface	Biamp Systems SERVER-IO AVB	1
1021	Switch, 5-Port AVB	MOTU AVB Switch 9305	1
1022	Transceiver, 4-channel HD and Charger w/o microphones	Yamaha 01-HDEXEC4-NM	1
1023	Transformer, 70V 7.5 Watt 1.25W/2.5W/5W/7.5W	AMK Innovations Inc. T70V7.5W	11
Video System Functional Requirements * Refer to drawing TA602			
1024	Amplifier, 1x4 HDMI 4K distribution	Crestron Electronics HD-DA4-4K-E	2
1025	Annotator, 4K 5 USB input HDCP compliant	Williams AV AN C5P Annotation PRO Plus	1
1026	Blade, 1 Channel 4K HDMI input	Crestron Electronics DMC-4KZ-HD	5
1027	Blade, 1 Channel 3G-SDI input	Crestron Electronics DMC-SDI	1
1028	Blade, 1 Channel 4K DM input	Crestron Electronics DMC-4KZ-C	10
1029	Blade, 2 Channel 4K DM output	Crestron Electronics DMC-4KZ-CO-HD	9
1030	Blade, 2 Channel Scaling HDMI 4K output	Crestron Electronics DMC-4KZ-HDO	5
1031	Camera, 1080p HDMI PTZ video conferencing	LifeSize Communications Camera 10x	2
1032	Camera, Evidence/document 4K tabletop presentation	Elmo Mfg. Corp. PX-30 (1364)	1
1033	Codec, Rack mount dual display VTC	LifeSize Communications ICON 800 Dual display codec only 1000-0000-1182	1
1034	Display, 58" 4K LCD flat	Planar EP5824K	2
1035	Firmware, Custom touch screen interface	Custom Custom	1
1036	Frame, 32x32 DM empty router	Crestron Electronics DM-MD32x32-CPU3	1
1037	Labels, Set of annotation monitor function	Custom Custom	3
1038	Monitor, 23.8" 4K 100x100 VESA mount	Dell Computer Corporation P2415Q	16
1039	Monitor, USB interface 4K 24" touch	CyberTouch O4K2480U	3
1040	Mount, Black camera wall	PTZOptics HCM-1-BLK	1
1041	Mount, Black single pivot LCD monitor	Ergotron, Inc. 47-092-800	4

The equipment listed on this page is for the Base Bid

RECOMMENDED BRANDS AND MODELS WITH APPROXIMATE QUANTITIES

CLIN	Item	Make/Model or Equivalent	Qty
1042	Player, HDMI 4K Media and video graphic	BrightSign XD1034	1
1043	Processor, AV multi-input recorder and H.264 streaming	Extron Electronics SMP 351 (60-1324-01)	1
1044	Receiver, Black wall plate 4K DM 8G room controller	Crestron Electronics DM-RMC-4K-100-C-1G-B-T	8
1045	Receiver, DigitalMedia 8G scaler and room controller	Crestron Electronics DM-RMC-4K-SCALER-C	11
1046	Splitter, 1 HDMI looped x 4 DM TP	Crestron Electronics DM-DA4-4K-C	2
1047	Stand, 100x100 low profile VESA monitor table	Ergomart EGT SL102-100	9
1048	Stand, Flat base 4-7' adjustable height black flat panel display	Chief Manufacturing Inc. PF1UB	2
1049	Supply, Custom camera central rack-mount power	Custom Custom	1
1050	Transmitter, 8G with VGA and 2 HD input switching DM	Crestron Electronics DM-TX-401-C	1
1051	Transmitter, HDMI to DM	Crestron Electronics DM-TX-4KZ-202-C	6
1052	Transmitter, 1G 4K 8G+ HDMI to DM white	Crestron Electronics DM-TX-4KZ-100-C-1G-W-T	3

AV System Control and Power Functional Requirements * Refer to drawing TA603

1053	Casters, Set of 4	Middle Atlantic Products CBS-MRK-31	1
1054	Engine, Large capacity control	Crestron Electronics AV3	1
1055	Extenders, Pair of USB 2.0 50m on UTP	Icron USV Ranger 2301	3
1056	Hub, One extension location with 4-port	Icron Ranger 2304	1
1057	PDU, Power receptacle panel rack mount	Middle Atlantic Products PD-915R	1
1058	Programming, Control system processor(s)	Crestron Electronics N/A	1
1059	Rack, 40RU x 31" D gangable equipment	Middle Atlantic Products MRK-4031	1
1060	Relay, 15A controlled stand alone 2 outlet 120VAC power	Middle Atlantic Products RLM-15-1CA	2
1061	Strip, 20 outlet 15A NEMA 5-15 plug power	Middle Atlantic Products PDT-2015C-NS	3
1062	Switch, 48 port 48 1K plus 4 10Gb data	Cisco Systems, Inc. SG500X-48-K9-NA	1
1063	UPS, 2150 VA 8 20A outlet IP enabled with battery backup rack mountable	Middle Atlantic Products UPS-2200R-8IP	1

The equipment listed on this page is for the Base Bid

RECOMMENDED BRANDS AND MODELS WITH APPROXIMATE QUANTITIES

CLIN	Item	Make/Model or Equivalent	Qty
Plate #1 * Refer to drawing TA701			
1064	Box, 2-Gang black surface mount wall back	Extron Electronics EWB 102 (60-1162-02)	1
1065	Plate - See Drawings for Details	Custom N/A	1
Plate #2 * Refer to drawing TA702			
1066	Box, 2-Gang black surface mount wall back	Extron Electronics EWB 102 (60-1162-02)	1
1067	Plate - See Drawings for Details	Custom N/A	1
Plate #3 * Refer to drawing TA703			
1068	Box, 2-Gang black surface mount wall back	Extron Electronics EWB 102 (60-1162-02)	1
1069	Plate - See Drawings for Details	Custom N/A	1
Plate #4 * Refer to drawing TA704			
1070	Box, 2-Gang black surface mount wall back	Extron Electronics EWB 102 (60-1162-02)	1
1071	Plate - See Drawings for Details	Custom N/A	1
Plate #5 * Refer to drawing TA705			
1072	Box, 2-Gang black surface mount wall back	Extron Electronics EWB 102 (60-1162-02)	1
1073	Plate - See Drawings for Details	Custom N/A	1
Plate #6 * Refer to drawing TA706			
1074	Box, 2-Gang black surface mount wall back	Extron Electronics EWB 102 (60-1162-02)	1
1075	Plate - See Drawings for Details	Custom N/A	1
Plate #7 * Refer to drawing TA707			
1076	Box, 2-Gang black surface mount wall back	Extron Electronics EWB 102 (60-1162-02)	1
1077	Plate - See Drawings for Details	Custom N/A	1
Plate #8 * Refer to drawing TA708			
1078	Box, 2-Gang black surface mount wall back	Extron Electronics EWB 102 (60-1162-02)	1
1079	Plate - See Drawings for Details	Custom N/A	1
Plate #28 * Refer to drawing TA728			
1080	Box, 2-Gang black surface mount wall back	Extron Electronics EWB 102 (60-1162-02)	1

The equipment listed on this page is for the Base Bid

RECOMMENDED BRANDS AND MODELS WITH APPROXIMATE QUANTITIES

CLIN	Item	Make/Model or Equivalent	Qty
1081	Plate - See Drawings for Details	Custom N/A	1
Plate #82 * Refer to drawing TA782			
1082	Plate - See Drawings for Details	Custom N/A	3
Plate 84 * Refer to drawing TA784			
1083	Plate - See Drawings for Details	Custom N/A	1
Custom Jury Box monitor post * Refer to drawing TA807			
1084	Mount, Black single pivot LCD monitor	Ergotron, Inc. 47-092-800	5
1085	Post, Jury box mount and monitor	Custom N/A	5

The equipment listed on this page is for the Client Furnished Equipment

*Note: Items on these sheets are not included in the BASE BID and may or may not be awarded at time of bid.

RECOMMENDED BRANDS AND MODELS WITH APPROXIMATE QUANTITIES

CLIN	Item	Make/Model or Equivalent	Qty
Client Furnished Equipment			
AV System			
4th Floor Courtroom 442			
Audio System Functional Requirements * Refer to drawing TA601			
1086	Emitter, Black or White , 2.3/2.8 MHZ	Phonic Ear PE600E (Verify Color)	1
1087	Microphone, Supercardioid Lavalier	Shure Incorporated WL184	2

SCHEDULE C - EXAMPLE CONTROL PANELS

NOT USED

ALL NEW PROGRAMMING IS TO BE PROVIDED

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SCHEDULE D - PROJECT DRAWINGS

PLEASE SEE ATTACHED

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GENERAL DRAWING NOTES

THESE NOTES APPLY TO ALL DRAWINGS IN THIS PACKAGE INCLUDING PLANS, SCHEDULES, FUNCTIONAL REQUIREMENTS AND DETAILS.

SEE SPECIFICATIONS SECTION AND EQUIPMENT LIST FOR ADDITIONAL INFORMATION.

FIELD VERIFY ALL EXISTING SITE CONDITIONS PRIOR TO ORDERING EQUIPMENT.

SYSTEM COMPONENTS SHOWN ON THE DRAWINGS DO NOT NECESSARILY REPRESENT ALL NECESSARY COMPONENTS FOR A COMPLETE WORKING SYSTEM. SEE SPECIFICATIONS FOR ADDITIONAL INFORMATION.

ALL DIMENSIONS AND MEASUREMENTS ARE IN MILLIMETERS UNLESS INDICATED OTHERWISE.

METRIC TO ENGLISH CONVERSION: 25.4MM = 1"

BUILDING TRADES CONDUIT SIZES			
MILLIMETER	INCH	MILLIMETER	INCH
16	1/2	63	2-1/2
21	3/4	78	3
27	1	91	3-1/2
35	1-1/4	103	4
41	1-1/2	129	5
53	2	155	6

- (CFE) CLIENT FURNISHED EQUIPMENT
- (OFCI) OWNER FURNISHED CONTRACTOR INSTALLED
- (FOI) OWNER FURNISHED OWNER INSTALLED
- (PIA) PUBLIC INTERNET ACCESS

FUNCTIONAL REQUIREMENTS NOTES

THESE NOTES ONLY APPLY TO THE 'FUNCTIONAL REQUIREMENTS' DRAWINGS IN THIS PACKAGE.

FUNCTIONAL REQUIREMENTS DRAWINGS SHOW A TYPICAL WORKING SYSTEM. REFER TO SPECIFICATIONS SECTION AND EQUIPMENT LISTS TO DETERMINE THE ACTUAL REQUIRED COMPONENT EQUIPMENT.

FUNCTIONAL REQUIREMENTS DRAWINGS DO NOT REPRESENT EXACT SIGNAL TYPES OR WIRING. THE EQUIPMENT PROVIDED WILL DETERMINE THE TYPES OF SIGNALS. IT IS UP TO THE CONTRACTOR PRIOR TO BID TO ENSURE THAT EACH COMPONENT EQUIPMENT HAS COMPATIBLE SIGNALS OR PROVIDE SIGNAL CONVERTERS AS REQUIRED.

FUNCTIONAL REQUIREMENTS DRAWINGS LINETYPE ———— INDICATES NEW/RE-WIRE EQUIPMENT OR WIRING UNDER THIS CONTRACT.

FUNCTIONAL REQUIREMENTS DRAWINGS LINETYPE - - - - - INDICATES EXISTING EQUIPMENT OR WIRING THAT IS TO BE REUSED UNDER THIS CONTRACT.

FUNCTIONAL REQUIREMENTS DRAWINGS LINETYPE ———— AND/OR LABELED AS (CFE) INDICATES COURT FURNISHED EQUIPMENT OR WIRING UNDER THIS CONTRACT.

FUNCTIONAL REQUIREMENTS DRAWINGS LINETYPE — - - - - AND/OR LABELED AS AN ENCLOSURE OR A GROUP OF EQUIPMENT OR WIRING.

FUNCTIONAL REQUIREMENTS DRAWINGS LINETYPE - - - - - AND/OR LABELED AS (FUTURE) INDICATES FUTURE EQUIPMENT OR WIRING NOT INCLUDED IN THIS CONTRACT.

SYMBOL SCHEDULE NOTES

THESE NOTES APPLY TO THE SYMBOL SCHEDULES IN THIS PACKAGE.

ONLY REFER TO THOSE SYMBOLS ON THE SCHEDULES THAT ARE SPECIFICALLY REFERENCED ON A FLOOR OR CEILING PLAN. SOME SYMBOLS MAY NOT APPEAR ANYWHERE ON A FLOOR OR CEILING PLAN.

THE 'PROVIDED EMPTY CONDUIT' COLUMNS IN THE SYMBOL SCHEDULES REPRESENT EMPTY CONDUIT THAT IS PROVIDED BY OTHERS AND IS SHOWN HERE FOR CONVENIENCE ONLY. UNLESS OTHERWISE NOTED.

PLATE DETAILS NOTES

THESE NOTES ONLY APPLY WHERE DETAILS OF PLATES ARE SHOWN.

FIELD VERIFY SIZE OF PLATE PRIOR TO FABRICATING AND PRINTING.

NOTE THAT SOME PLATES MAY BE PROVIDED BY OTHERS.

VISIBLE PLATES ARE TO BE OF A COLOR DETERMINED BY THE ARCHITECT OR BY THE CLIENT'S REPRESENTATIVE. PLATES THAT ARE LOCATED OUT OF SITE (INSIDE FLOOR BOXES, UNDER DESKS, ETC.) SHALL BE PLAIN STEEL UNLESS OTHERWISE DIRECTED. TEXT AND GRAPHICS ON PLATES SHALL BE ENGRAVED AND FILLED IN A HIGH CONTRASTING COLOR.

CONNECTORS SHOWN ARE FOR ILLUSTRATIVE PURPOSES ONLY. ACTUAL CONNECTORS MAY VARY. WHERE PLATES ARE SHOWN WITH CONNECTORS UNDER OTHER CONTRACTS, COORDINATE WITH THOSE CONTRACTORS TO PROVIDE A FINISHED PRODUCT EQUIVALENT TO THAT SHOWN HEREIN.

PUSH-BUTTON SWITCHES TO BE MOMENTARY ACTION, NOT LATCHING, AND SHALL BE ILLUMINATED WHEN CONDITION OF BUTTON LABEL IS TRUE. LETTER AT UPPER LEFT HAND OF BUTTON DENOTES COLOR OF LENS WHEN CONDITION OF BUTTON LABEL IS TRUE. (DO NOT ENGRAVE OR PRINT TOGGLE FUNCTION ON PLATE.) W = WHITE; R = RED; G = GREEN; B = BLUE; Y = YELLOW







































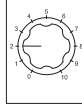


SCALE:	NONE
DRAWN BY:	LB/RW/jds
DATE:	31 JUL 2020

4TH FLOOR COURTROOM 442
AKRON, OHIO
UNITED STATES DISTRICT COURT

THE ITEMS SHOWN ON THIS DRAWING ARE FOR SIGNAL FLOW REQUIREMENTS ONLY. ITEMS SHOWN MAY NOT BE REQUIRED OR ARE SHOWN IN PARTIAL QUANTITIES. REFER TO EQUIPMENT LIST IN SPECIFICATIONS AND DESIGN INTENT FLOOR AND CEILING PLANS FOR CONTRACT INCLUSIONS, QUANTITIES AND LOCATIONS.















TA001

CONNECTOR LEGEND















SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
	XLR, 3-PIN FEMALE		SPEAKON, 4-POLE		9-PIN DB, FEMALE
	XLR, 3-PIN MALE		SPEAKON, 8-POLE		RJ45, UNSHIELDED
	XLR, 4-PIN FEMALE		1/4" TR PHONE, LOCKING		RJ45, SHIELDED
	XLR, 4-PIN MALE		1/4" TR PHONE		RJ45, LOCKING (XLR STYLE)
	XLR, 5-PIN FEMALE		1/4" TRS PHONE		FIBER (LC TYPE)
	XLR, 5-PIN MALE		3.5mm TRS		FIBER (ST TYPE)
	XLR, 6-PIN FEMALE		RCA		PHOENIX
	XLR, 6-PIN MALE		S-VIDEO, 4-PIN		USB TYPE A
	XLR, 7-PIN FEMALE		BNC		USB TYPE B
	XLR, 7-PIN MALE		15-PIN HD (VGA), FEMALE		PUSH BUTTON, SQUARE
	XLR 3-PIN-1/4" COMBO, FEMALE LOCKING		15-PIN HD (VGA), MALE		PUSH BUTTON, ROUND
	XLR, 3-PIN FEMALE, MINI		HDMI - Only captive type jacks shall be used.		TOGGLE SWITCH
	XLR, 4-PIN FEMALE, MINI		DVI		VOLUME CONTROL/ATTENUATOR
	XLR, 5-PIN FEMALE, MINI		25-PIN DB, FEMALE		

SCALE:	NONE	4TH FLOOR COURTROOM 442 AKRON, OHIO UNITED STATES DISTRICT COURT	THE ITEMS SHOWN ON THIS DRAWING ARE FOR SIGNAL FLOW REQUIREMENTS ONLY. ITEMS SHOWN MAY NOT BE REQUIRED OR ARE SHOWN IN PARTIAL QUANTITIES. REFER TO EQUIPMENT LIST IN SPECIFICATIONS AND DESIGN INTENT FLOOR AND CEILING PLANS FOR CONTRACT INCLUSIONS, QUANTITIES AND LOCATIONS.	TA002
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DATE:	31 JUL 2020			



FLOOR PLAN & REFLECTED CEILING PLAN SYMBOL LEGEND

	SYMBOL	DESCRIPTION	MOUNTING REQUIREMENTS	NOTES
EQUIPMENT ROOM	 (#) (FRONT)	EQUIPMENT RACK(S)	EQUIPMENT RACK	C INSTALL ON CASTERS V VIDEO EQUIPMENT ONLY W WALL MOUNT
	 BBXX	EQUIPMENT BACKBOARD	FIRE RESISTANT PLYWOOD (BY OTHERS)	
		INTERFACE PANEL	RACK MOUNT - FRONT AND/OR REAR	
SIGNAL DISTRIBUTION	 (#)	POKE THRU	INSTALL CONNECTORS INSIDE BOX	(#) SEE PLATE DRAWINGS FOR SERVICE REQUIREMENTS AT EACH LOCATION B BUTTON/TOUCH CONTROL C UNDER CARPET CONNECTION POINT, UNDER CARPET WIRING, ADAPT CONNECTIONS AS NEEDED E EXISTING J-BOX OR FLOORBOX G GROMMET M MULTIPIN QUICK-RELEASE CONNECTOR P POKE THROUGH STYLE WIRING DEVICE, ADAPT PLATES AND CONNECTIONS AS NEEDED U PROVIDE WITH UMBILICALS AND/OR CABLE WHIPS ONLY
	 (#)	ACTIVATED FLOOR BOX	INSTALL CONNECTORS INSIDE BOX - SPLIT BETWEEN LOW-VOLTAGE PARTITIONS	
	 (#)	WALL PLATE	DOUBLE-GANG PLATE FLUSH IN WALL UNLESS OTHERWISE SPECIFIED	
	 (#)	TABLE PLATE	NEAR WORKING SURFACE OF FURNITURE ABOVE/BELOW TABLE TOP IN SPECIAL HOUSING	
		UMBILICAL WITH CABLE-END CONNECTORS	ANCHOR UMBILICAL UNDER ACCESS FLOOR LEAVING LOOSE END CAPABLE OF REACHING FURNITURE WHICH CAN BE MOVED TO IT'S DESIGNATED LOCATIONS.	
SIGNAL CNTRL	 (#)	PLATE W/ INDICATORS	PLATE FLUSH AT HEIGHT SPECIFIED	(#) SEE PLATE DRAWINGS FOR SERVICE REQUIREMENTS AT EACH LOCATION
MICROPHONES	 X	FIXED BASE MICROPHONE	PERMANENTLY MOUNTED	X ANY COMBINATION BELOW A ARRAY TYPE B BENCH CONFERENCE C CEILING MOUNTED D DIRECTIONAL F FOLLOW-ME/STEERABLE H HANDHELD M MOVABLE R RECESSED IN CASEWORK OR FURNITURE S STAND MOUNTED V MOUNTED ON VERTICAL SURFACE W WIRELESS WHERE FURNITURE IS MOBILE, PROVIDE MULTI-CABLE "UMBILICAL" FOR CONNECTION TO FLOOR BOX OR WALL PLATE
	 X	MOVABLE BASE MICROPHONE	PLUGS INTO MILLWORK JACK OR WALL PLATE	
	 X	BOUNDARY MICROPHONE	PORTABLE OR MOUNTED	
	 X	OVERHEAD MICROPHONE	HANGING/DROP-DOWN FROM CEILING. PROVIDE HOLLOW THREADED LAMP BASE WIRING SLEEVE WITH WASHERS AND NUT IN COLOR TO MATCH CEILING.	
	 X	LAVALIER MICROPHONE	PROVIDE A TEN FOOT EXTENSION CABLE & A HOOK FOR STOWAGE UNDER COUNTERTOP.	
SCALE:	NONE	4TH FLOOR COURTROOM 442 AKRON, OHIO UNITED STATES DISTRICT COURT		THE ITEMS SHOWN ON THIS DRAWING ARE FOR SIGNAL FLOW REQUIREMENTS ONLY. ITEMS SHOWN MAY NOT BE REQUIRED OR ARE SHOWN IN PARTIAL QUANTITIES. REFER TO EQUIPMENT LIST IN SPECIFICATIONS AND DESIGN INTENT FLOOR AND CEILING PLANS FOR CONTRACT INCLUSIONS, QUANTITIES AND LOCATIONS.
DRAWN BY:	LB/RW/jds			
DATE:	31 JUL 2020			











FLOOR PLAN & REFLECTED CEILING PLAN SYMBOL LEGEND

	SYMBOL	DESCRIPTION	MOUNTING REQUIREMENTS	NOTES	
LOUDSPEAKERS		LOUDSPEAKER	MOUNTED AT CEILING	X ANY COMBINATION BELOW A AMPLIFIER/LOUDSPEAKER COMBINATION B BRACKET MOUNT C SOUND ONLY FROM FAR END CODEC D SURFACE MOUNT LOUDSPEAKER E EXISTING LOUDSPEAKER TO BE REUSED F FLUSH MOUNT LOUDSPEAKER H PROVIDE WITH HEADPHONE CONNECTION L LINE ARRAY M MASKING SOUND ON LOUDSPEAKER DURING SIDEBAR N ABOVE-CEILING NOISE MASKING SPEAKER P PAGING LOUDSPEAKER S ROOM SOUND ON LOUDSPEAKER MUTED DURING SIDEBAR T TAMPER-RESISTANT LOUDSPEAKER U USER PRESENTATION CONTENT Z ZONE FOR MIX MINUS	
		LOUDSPEAKER	MOUNTED AT WALL		
		LOUDSPEAKER	MOUNTED AT HORIZONTAL SURFACE OF CASEWORK/MILLWORK		
		LOUDSPEAKER	MOUNTED AT VERTICAL SURFACE OF CASEWORK/MILLWORK		
		LOUDSPEAKER	MOUNTED AT VERTICAL SURFACE OF CASEWORK/MILLWORK		
LISTENING ASSISTANCE & 2ND LANGUAGE		IR EMITTER	FLUSH MOUNTED INSIDE ENCLOSED WALL CAVITY	USE PROVIDED INFRASTRUCTURE. ENSURE EMITTER HAS CLEAR PATH TO ALL LISTENING POSITIONS.	
		IR EMITTER	SURFACE MOUNTED ON WALL OR CEILING		
CONTROL DEVICES		CONTROL TOUCH SCREEN	DESKTOP OR FLUSH MOUNTED	ROUTE ALL WIRING BACK TO EQUIPMENT BACKBOARD THROUGH CONDUIT OF PATHWAY PROVIDED	
		BUILT-IN OR FREE-STANDING CONTROL DEVICES	FLUSH IN COUNTER TOP OR IN STAND-ALONE BACKBOX	X ANY COMBINATION BELOW A ATTORNEY CONTROL B BAILIFF CONTROL C COUNTDOWN / CLOCK D DEPUTY CONTROL F FLUSH MOUNT I INTERPRETER MAIN CONTROL J JUDGE CONTROL L LAW CLERK O OFE/CFE P PRISONER INTERCOM R COURT REPORTER CONTROL S ROUTER CONTROL SWITCH T TECHNICAL DIRECTOR V VOLUME CONTROL W WIRELESS	
		PC	CFE OR LOCATION SHOWN		
COUNTDOWN CLOCK		COUNTDOWN TIMER CLOCK	MOUNTED AT VERTICAL SURFACE OF WALL/CASEWORK/MILLWORK	X ANY COMBINATION BELOW B BRACKET MOUNTED F FLUSH MOUNTED P PARTIALLY RECESSED S SURFACE MOUNTED	
		COUNTDOWN TIMER CLOCK	MOUNTED AT HORIZONTAL SURFACE OF CASEWORK/MILLWORK		
LECTERNS		PRIMARY LECTERN LOCATION		SEE FUNCTIONAL REQUIREMENTS DRAWINGS FOR CONTENTS OF LECTERNS X ANY COMBINATION BELOW F FIXED IN PLACE O ORAL LECTERN P PRESENTATION LECTERN	
		ALTERNATE LECTERN LOCATION(S)			
SCALE: NONE		4TH FLOOR COURTROOM 442 AKRON, OHIO UNITED STATES DISTRICT COURT		THE ITEMS SHOWN ON THIS DRAWING ARE FOR SIGNAL FLOW REQUIREMENTS ONLY. ITEMS SHOWN MAY NOT BE REQUIRED OR ARE SHOWN IN PARTIAL QUANTITIES. REFER TO EQUIPMENT LIST IN SPECIFICATIONS AND DESIGN INTENT FLOOR AND CEILING PLANS FOR CONTRACT INCLUSIONS, QUANTITIES AND LOCATIONS.	
DRAWN BY: LB/RW/jds					TA004
DATE: 31 JUL 2020					

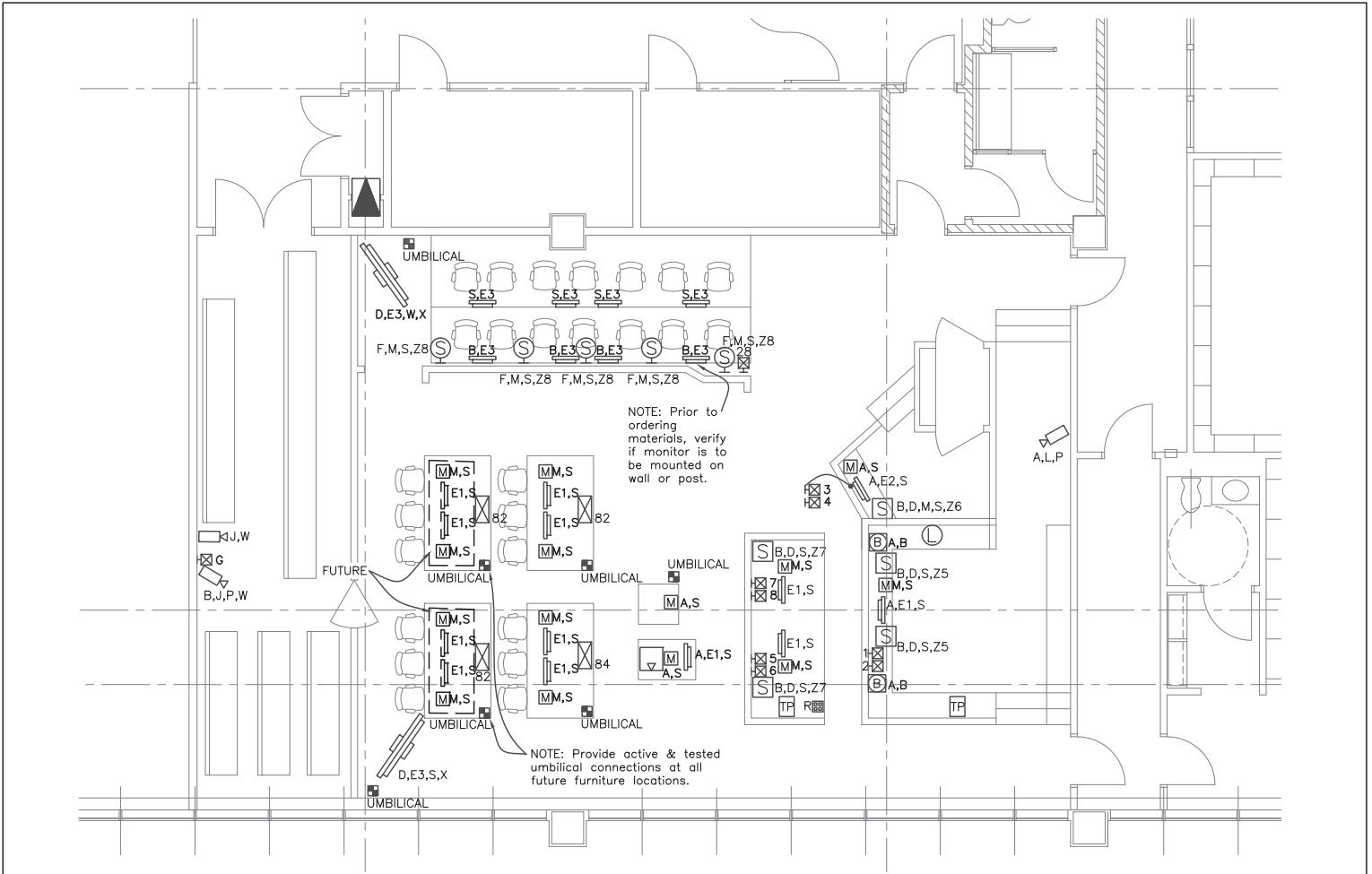
FLOOR PLAN & REFLECTED CEILING PLAN SYMBOL LEGEND

	SYMBOL	DESCRIPTION	MOUNTING REQUIREMENTS	NOTES	
VIDEO SOURCE DEVICES		LAPTOP OR TABLET	CFE OR LOCATION SHOWN	ROUTE ALL WIRING BACK TO EQUIPMENT BACKBOARD THROUGH CONDUIT OF PATHWAY PROVIDED X ANY COMBINATION BELOW A ATTORNEY CONTROL B BAILIFF CONTROL C COUNTDOWN / CLOCK D DEPUTY CONTROL F FLUSH MOUNT I INTERPRETER MAIN CONTROL J JUDGE CONTROL L LAW CLERK O OFE/CFE P PRISONER INTERCOM R COURT REPORTER CONTROL S ROUTER CONTROL SWITCH T TECHNICAL DIRECTOR V VOLUME CONTROL W WIRELESS	
		EVIDENCE CAMERA		X ANY COMBINATION BELOW B BRACKET MOUNTED C CEILING MOUNTED D DESKTOP F FLUSH IN CEILING P PULLOUT S SURFACE MOUNTED	
SCALE: NONE		4TH FLOOR COURTROOM 442 AKRON, OHIO UNITED STATES DISTRICT COURT		THE ITEMS SHOWN ON THIS DRAWING ARE FOR SIGNAL FLOW REQUIREMENTS ONLY. ITEMS SHOWN MAY NOT BE REQUIRED OR ARE SHOWN IN PARTIAL QUANTITIES. REFER TO EQUIPMENT LIST IN SPECIFICATIONS AND DESIGN INTENT FLOOR AND CEILING PLANS FOR CONTRACT INCLUSIONS, QUANTITIES AND LOCATIONS.	
DRAWN BY: LB/RW/jds					TA005
DATE: 31 JUL 2020					

FLOOR PLAN & REFLECTED CEILING PLAN SYMBOL LEGEND

	SYMBOL	DESCRIPTION	MOUNTING REQUIREMENTS	NOTES
CAMERA COVERAGE	 X	CAMERA	SURFACE MOUNTED	X ANY COMBINATION BELOW A CAMERA FOCUS ON ATTORNEY B PROVIDE PHYSICAL VIEW BARRIER AS REQ'D SO THAT NO SHOTS OF JURORS ARE POSSIBLE C CEILING MOUNTED J CAMERA FOCUS ON JUDGE L CAMERA FOCUS ON LECTERN M U.S. MARSHAL'S CAMERA, PROVIDED & INSTALLED BY U.S. MARSHAL. NOT IN THIS CONTRACT. SHOWN FOR INFORMATIONAL & COORDINATION PURPOSES P P/T/Z W CAMERA FOCUS ON WITNESS
	 X	CAMERA	SURFACE MOUNTED INSIDE CAVITY	
MONITORS & DISPLAYS	 X	FLAT PANEL	DESKTOP MODEL	X ANY COMBINATION BELOW A ANNOTATION INPUT MONITOR B BRACKET MOUNT C CONTROL COMPUTER D DUAL INPUT E(#) EVIDENCE DISPLAY SHOWING NEAR OR FAR END WITH PUBLISHING ZONE NUMBER F FLUSH MOUNT G GIMBAL/ADJUSTABLE MOUNT H CELL DISPLAY MONITOR WITH PROGRAM AUDIO I INTERPRETER'S VIEW K KNUCKLE MOUNT L LOCAL COMPUTER M WITH SOUND MASKING N NTSC BASEBAND O ON OPERABLE DISPLAY LIFT P PC ONLY Q QUEUING MONITOR R RESTRICTED ANGLE OVERLAY S STAND OR POST MOUNT T TOGGLE AT MAIN CONTROL PANEL TO SHOW EVIDENCE OR VTC U USER PRESENTATION CONTENT V VIDEO CONFERENCE REMOTE PEOPLE ONLY W WALL MOUNT X LARGE FORMAT DISPLAY Y TV
	 X	FLAT PANEL	WALL OR CEILING MOUNT	
	 X	FLAT PANEL	ON MOBILE CART WITH UMBILICAL	
	 X	FLAT PANEL	ON SLIDING STAND	
	 X	FLAT PANEL	IN RECESSED CAVITY	
VIDEO PROJECTION	 X	VIDEO PROJECTOR	POSITIONED INSIDE CAVITY	ADJUST STOPS UNDER THIS CONTRACT FOR BEST PICTURE
	 X	VIDEO PROJECTOR	ON CEILING MOUNT	
		PROJECTION SCREEN	LOW VOLTAGE CONTROL WIRING ONLY	

SCALE: NONE	4TH FLOOR COURTROOM 442 AKRON, OHIO UNITED STATES DISTRICT COURT	THE ITEMS SHOWN ON THIS DRAWING ARE FOR SIGNAL FLOW REQUIREMENTS ONLY. ITEMS SHOWN MAY NOT BE REQUIRED OR ARE SHOWN IN PARTIAL QUANTITIES. REFER TO EQUIPMENT LIST IN SPECIFICATIONS AND DESIGN INTENT FLOOR AND CEILING PLANS FOR CONTRACT INCLUSIONS, QUANTITIES AND LOCATIONS.	TA006
DRAWN BY: LB/RW/jds			
DATE: 31 JUL 2020			



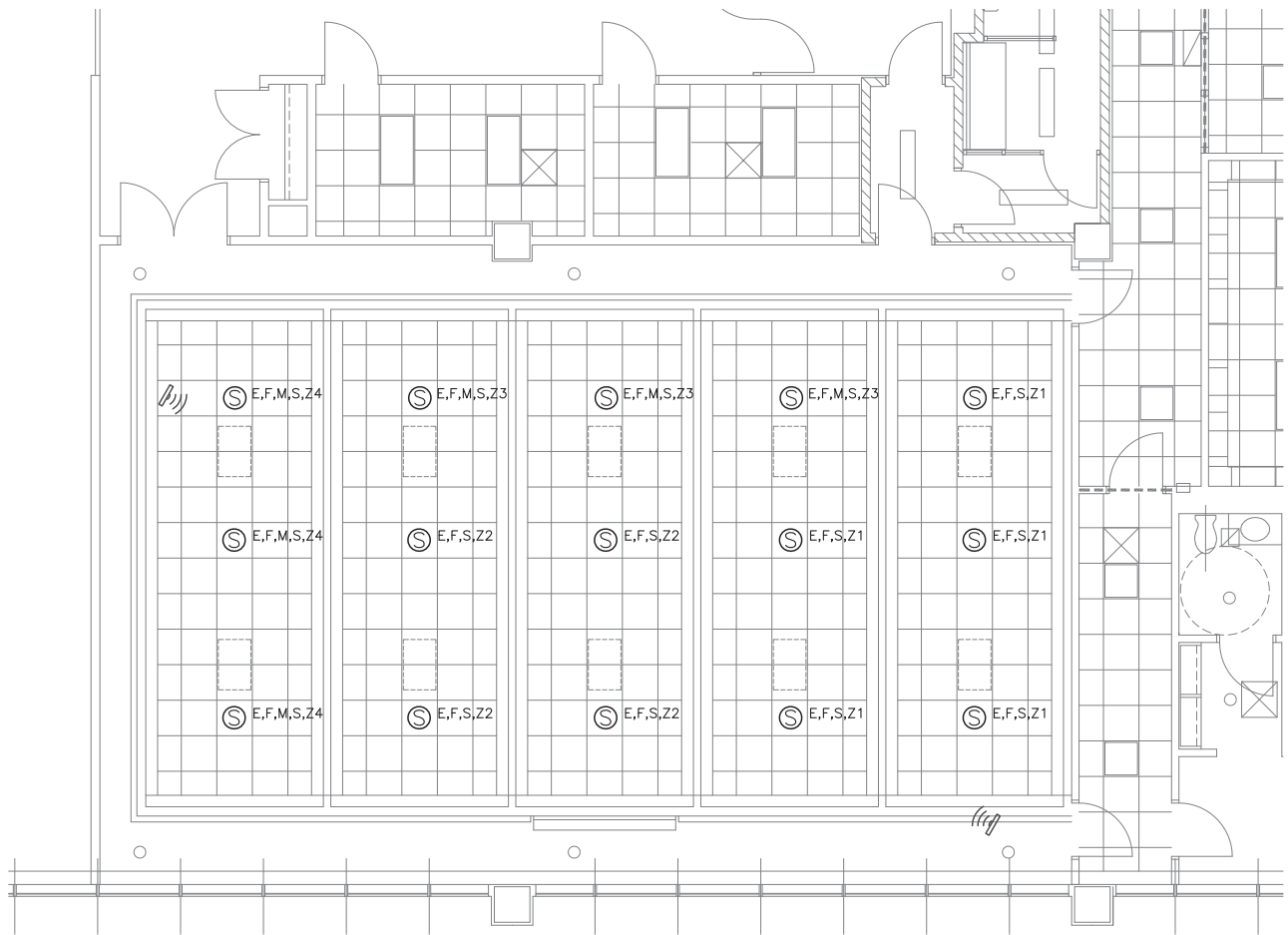
FLOOR PLAN FOR AUDIO, VIDEO & CONTROL DEVICES

SCALE:	1:100
DRAWN BY:	LB/RW/jds
DATE:	31 JUL 2020

4TH FLOOR COURTROOM 442
 AKRON, OHIO
 UNITED STATES DISTRICT COURT

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TA401



FLOOR PLAN FOR AUDIO, VIDEO & CONTROL DEVICES

SCALE: 1:100
 DRAWN BY: LB/RW/jds
 DATE: 31 JUL 2020

4TH FLOOR COURTROOM 442
 AKRON, OHIO
 UNITED STATES DISTRICT COURT

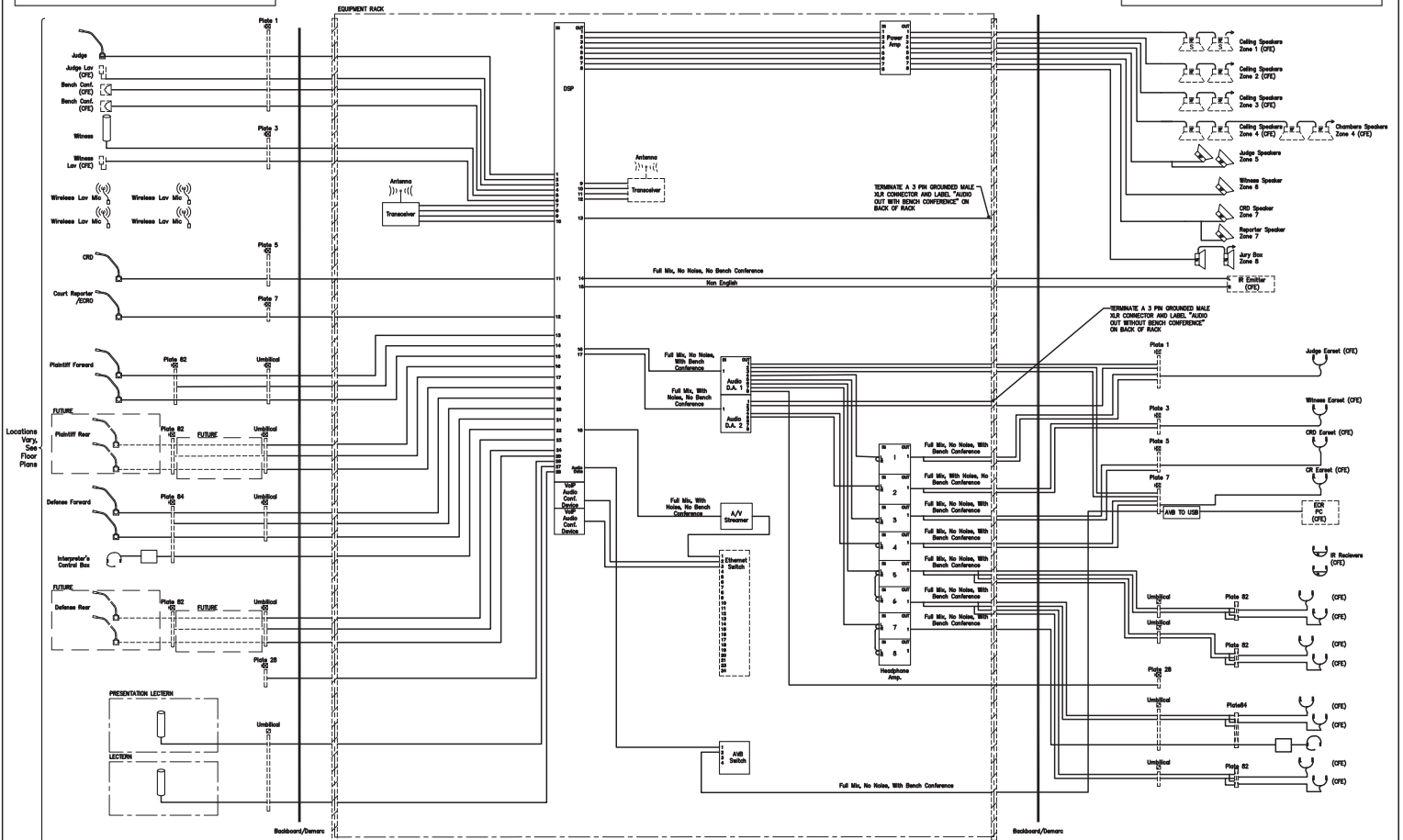
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TA411

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SEE FLOOR PLANS FOR
LOCATIONS



AUDIO SYSTEM FUNCTIONAL REQUIREMENTS

SCALE: NONE
DRAWN BY: LB/RW/jds
DATE: 31 JUL 2020

4TH FLOOR COURTROOM 442
AKRON, OHIO
UNITED STATES DISTRICT COURT

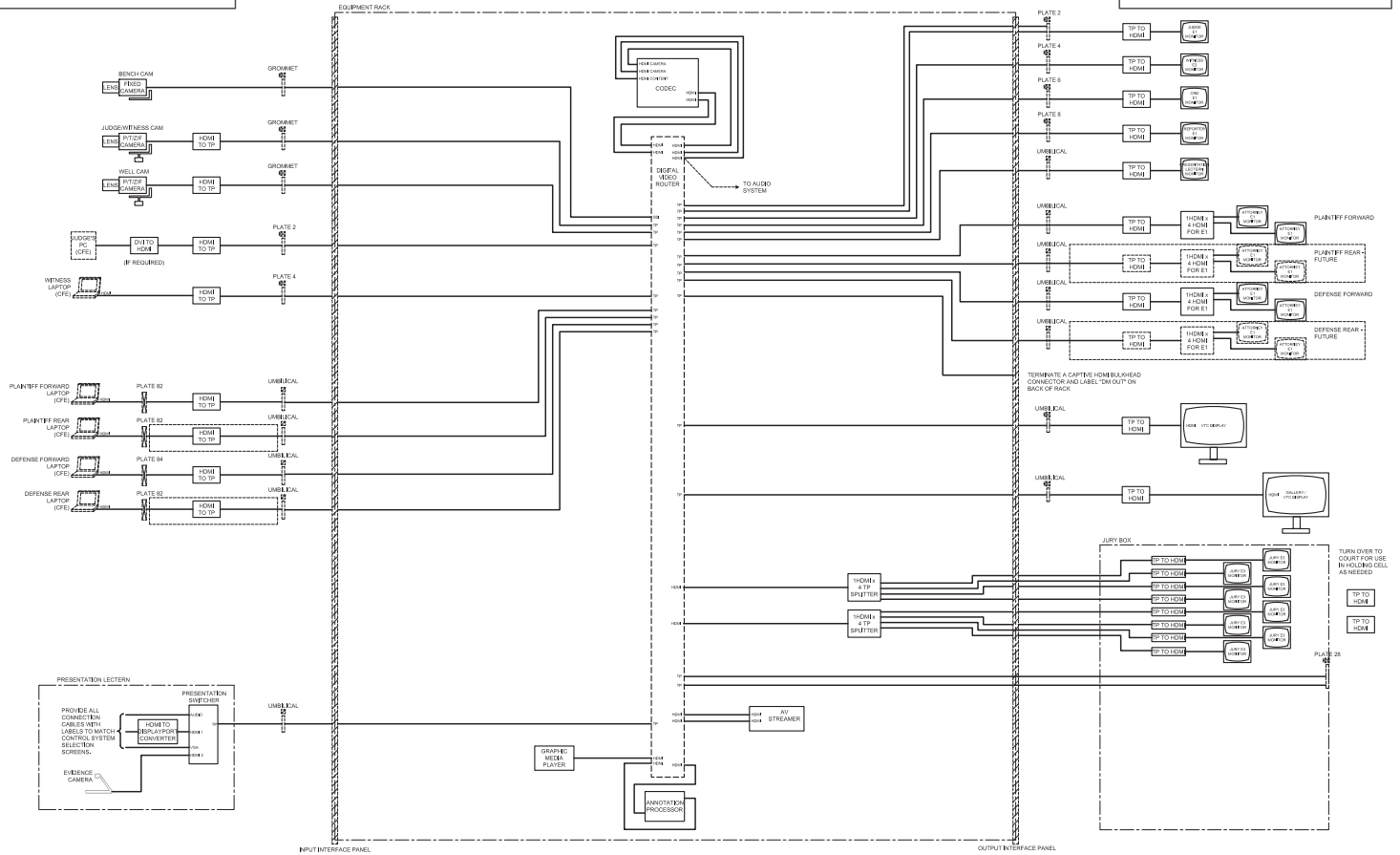
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TA601

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**SEE FLOOR PLANS
FOR LOCATIONS**



VIDEO SYSTEM FUNCTIONAL REQUIREMENTS

SCALE: NONE
DRAWN BY: LB/RW/jds
DATE: 31 JUL 2020

**4TH FLOOR COURTROOM 442
AKRON, OHIO
UNITED STATES DISTRICT COURT**

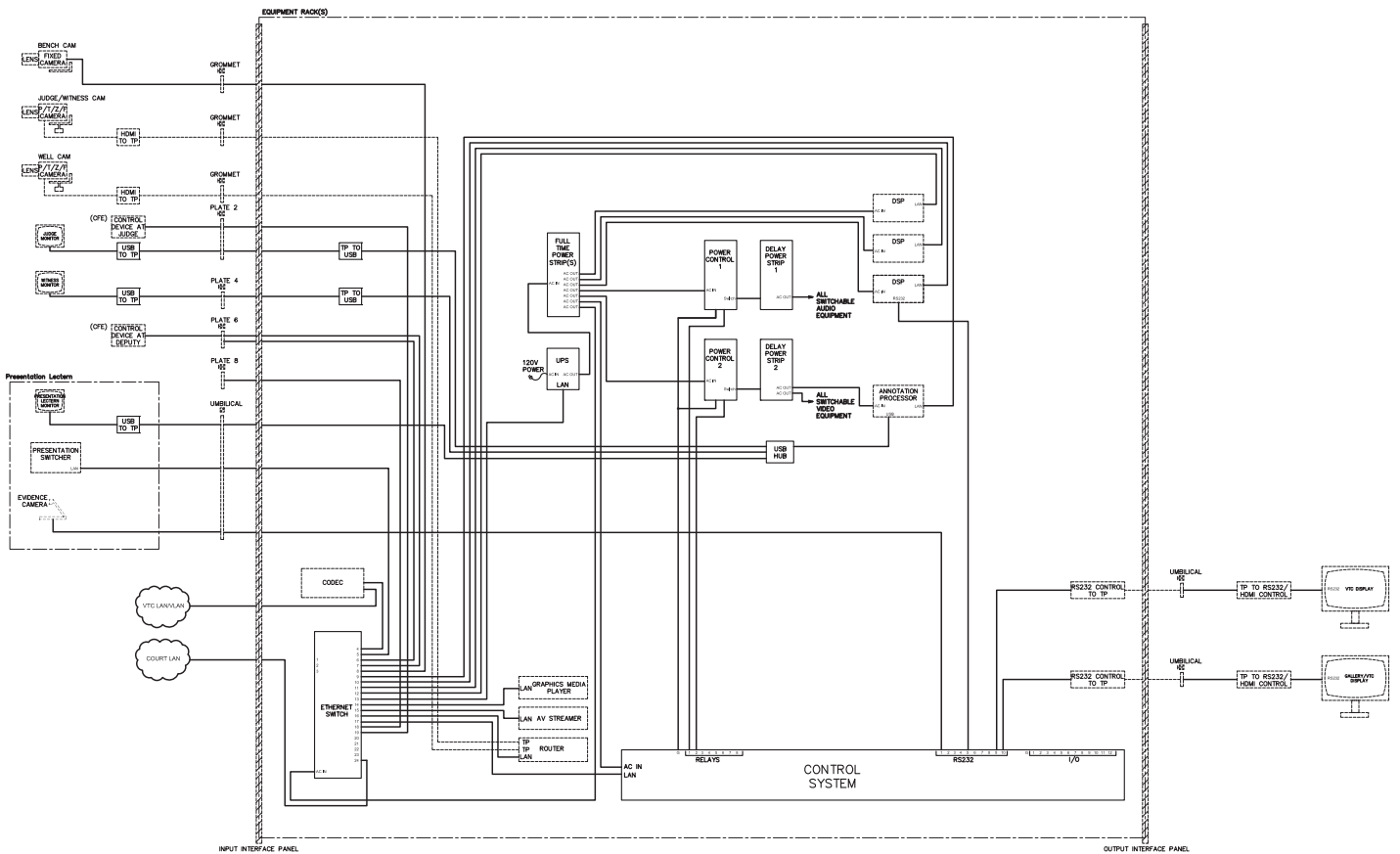
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TA602

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SEE FLOOR PLANS
FOR LOCATIONS



AV CONTROL AND POWER SYSTEMS FUNCTIONAL REQUIREMENTS

SCALE: NONE
DRAWN BY: LB/RW/jds
DATE: 31 JUL 2020

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AKRON, OHIO
UNITED STATES DISTRICT COURT

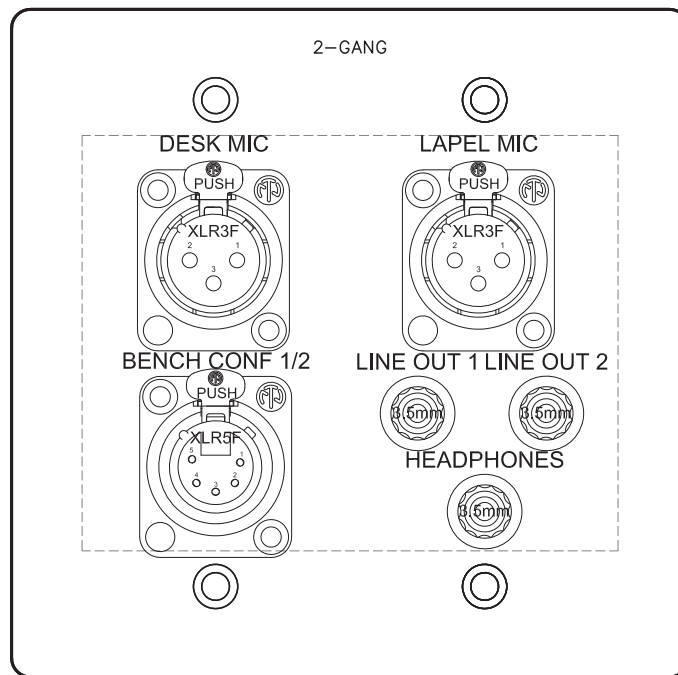
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TA603

DRAWING NOTE:
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SEE FLOOR PLANS
 FOR LOCATIONS



FINISH: BLACK ALUMINUM

PLATE #1

SCALE: NONE
 DRAWN BY: LB/RW/jds
 DATE: 31 JUL 2020

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 AKRON, OHIO
 UNITED STATES DISTRICT COURT

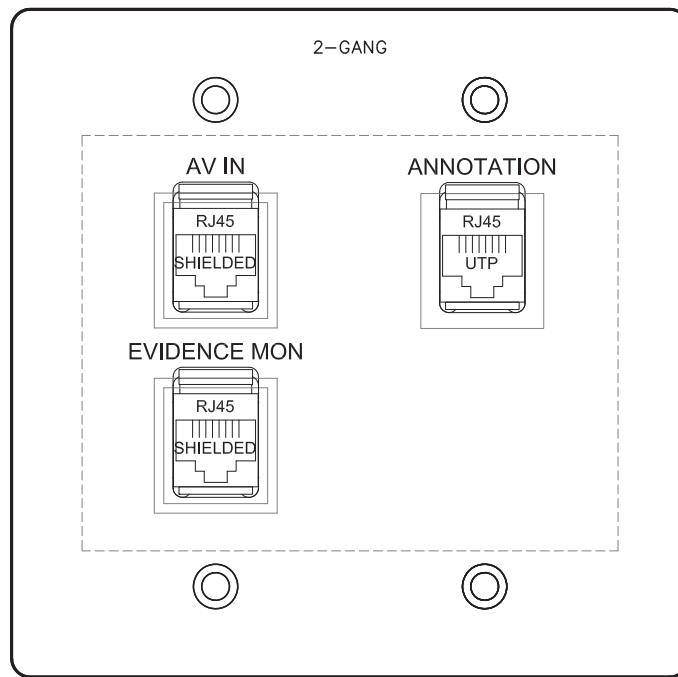
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TA701

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SEE FLOOR PLANS
 FOR LOCATIONS



FINISH: BLACK ALUMINUM

PLATE #2

SCALE: NONE
 DRAWN BY: LB/RW/jds
 DATE: 31 JUL 2020

4TH FLOOR COURTROOM 442
 AKRON, OHIO
 UNITED STATES DISTRICT COURT

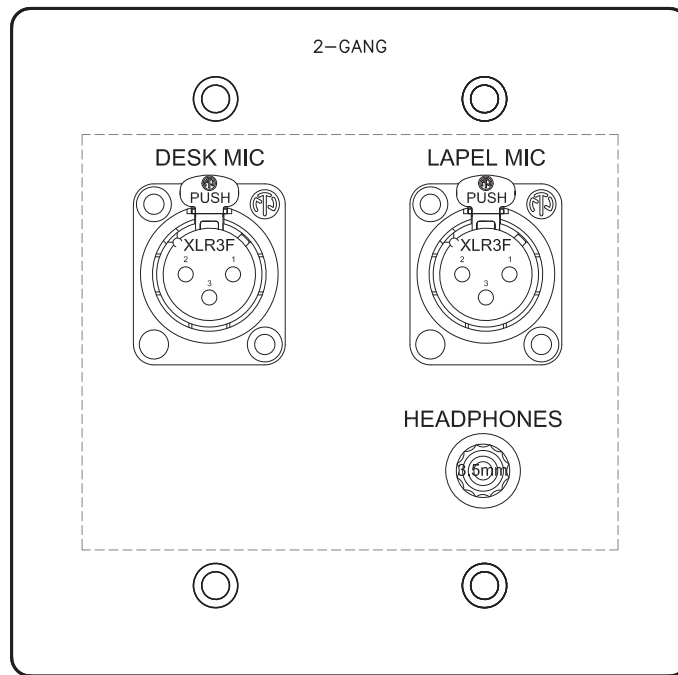
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TA702

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SEE FLOOR PLANS
 FOR LOCATIONS



FINISH: BLACK ALUMINUM

PLATE #3

SCALE: NONE
 DRAWN BY: LB/RW/jds
 DATE: 31 JUL 2020

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 AKRON, OHIO
 UNITED STATES DISTRICT COURT

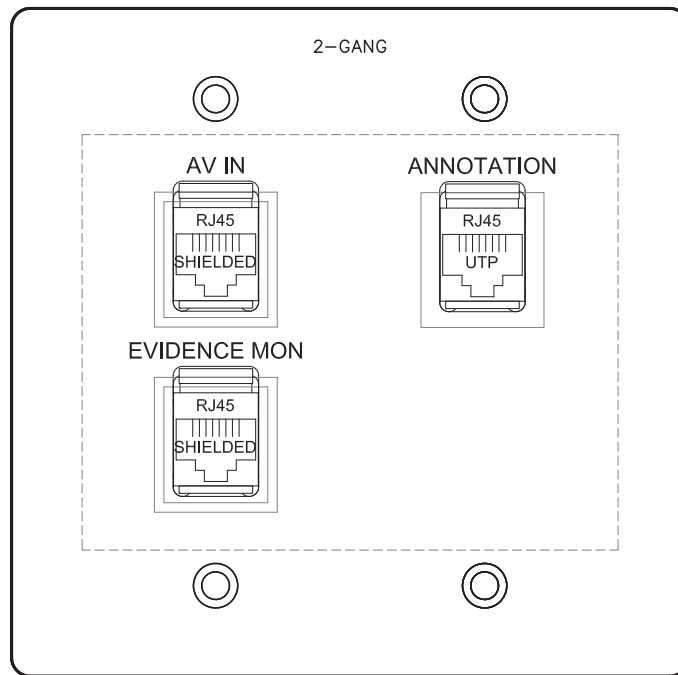
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TA703

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SEE FLOOR PLANS
 FOR LOCATIONS



FINISH: BLACK ALUMINUM

PLATE #4

SCALE: NONE
 DRAWN BY: LB/RW/jds
 DATE: 31 JUL 2020

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 AKRON, OHIO
 UNITED STATES DISTRICT COURT

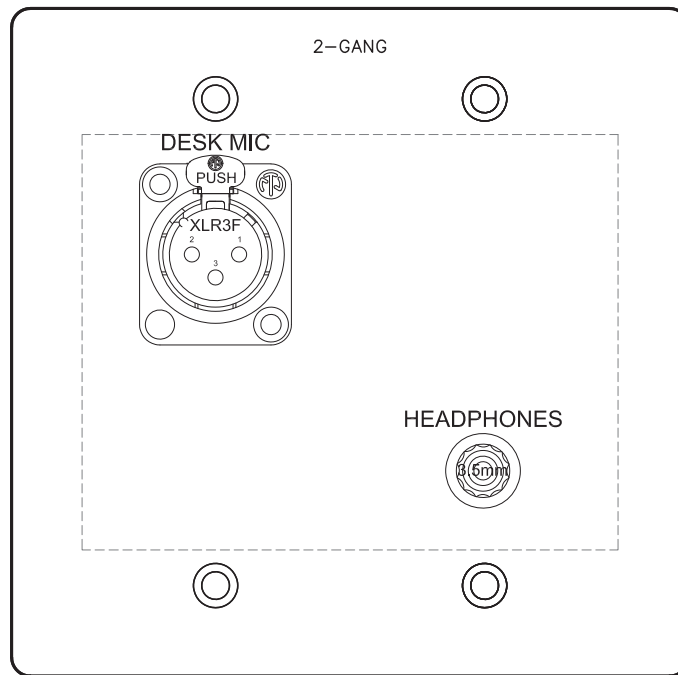
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TA704

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SEE FLOOR PLANS
 FOR LOCATIONS



FINISH: BLACK ALUMINUM

PLATE #5

SCALE:	NONE
DRAWN BY:	LB/RW/jds
DATE:	31 JUL 2020

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 AKRON, OHIO
 UNITED STATES DISTRICT COURT

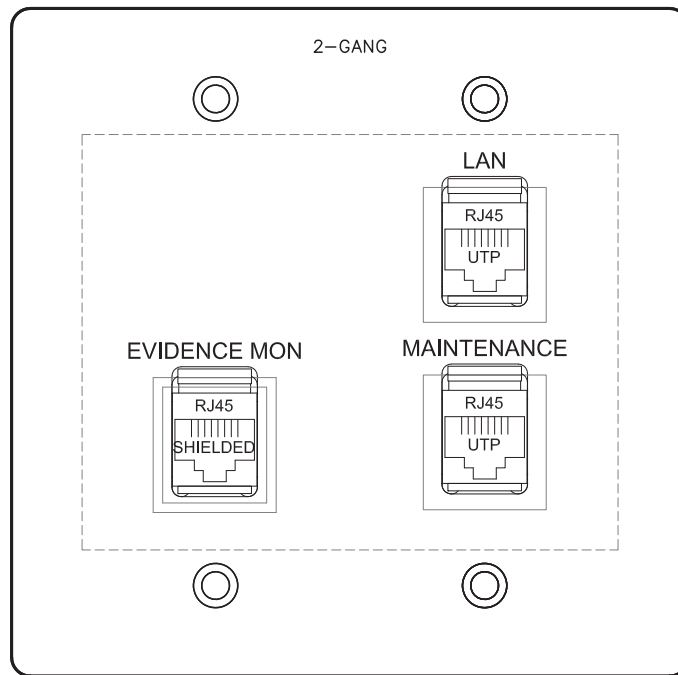
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TA705

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SEE FLOOR PLANS
 FOR LOCATIONS



FINISH: BLACK ALUMINUM

PLATE #6

SCALE: NONE
 DRAWN BY: LB/RW/jds
 DATE: 31 JUL 2020

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 AKRON, OHIO
 UNITED STATES DISTRICT COURT

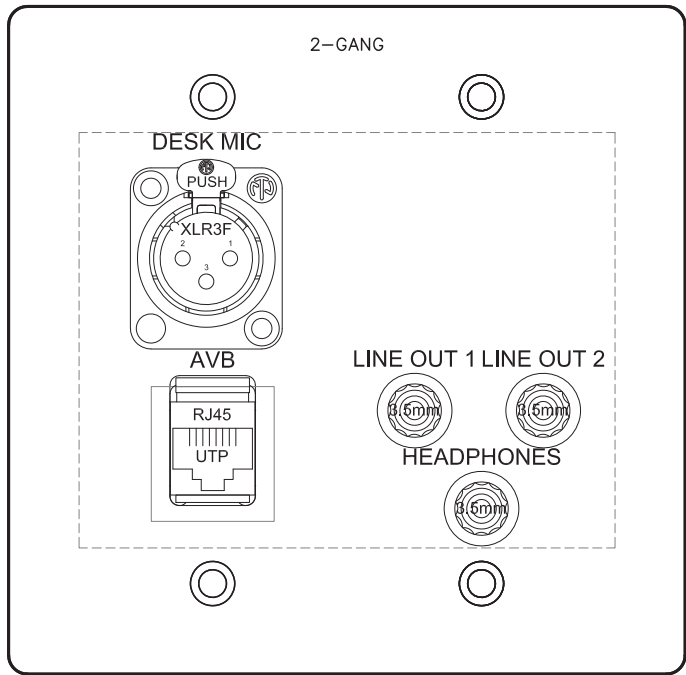
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TA706

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SEE FLOOR PLANS
 FOR LOCATIONS



FINISH: BLACK ALUMINUM

PLATE #7

SCALE: NONE
 DRAWN BY: LB/RW/jds
 DATE: 31 JUL 2020

4TH FLOOR COURTROOM 442
 AKRON, OHIO
 UNITED STATES DISTRICT COURT

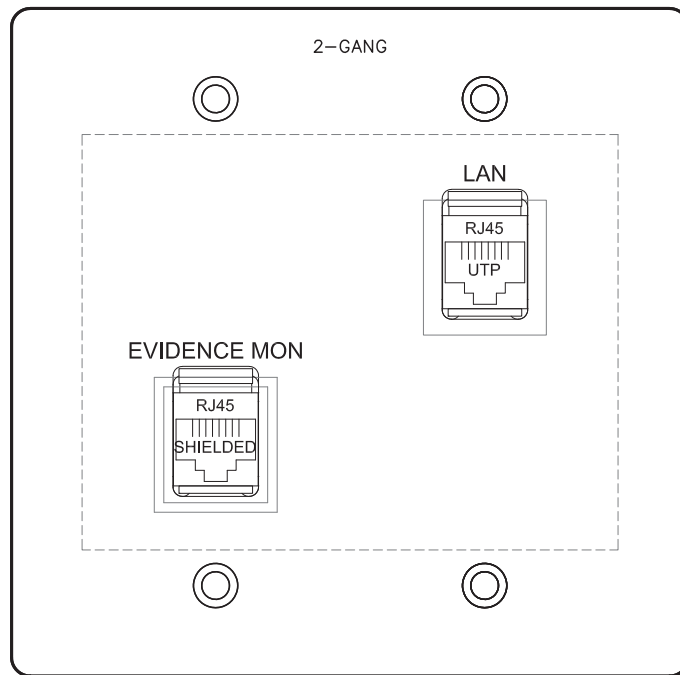
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TA707

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SEE FLOOR PLANS
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FINISH: BLACK ALUMINUM

PLATE #8

SCALE: NONE
 DRAWN BY: LB/RW/jds
 DATE: 31 JUL 2020

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 AKRON, OHIO
 UNITED STATES DISTRICT COURT

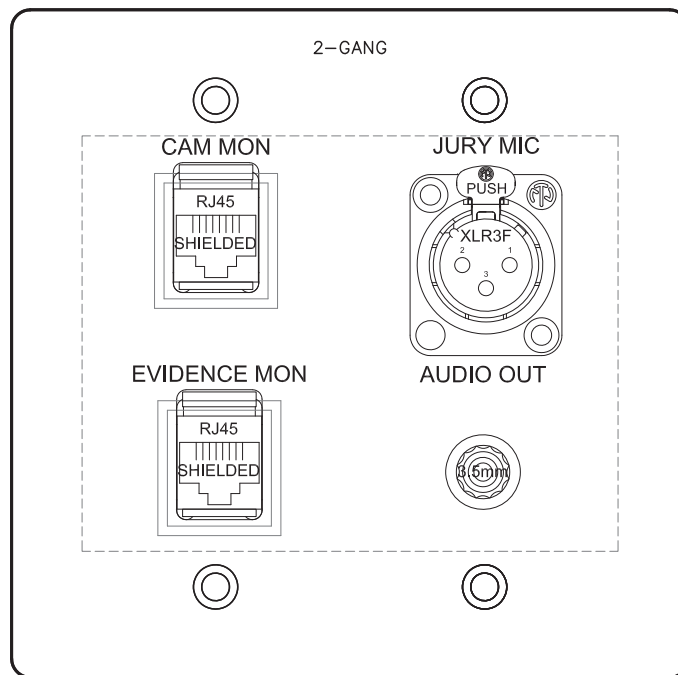
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TA708

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SEE FLOOR PLANS
 FOR LOCATIONS



FINISH: BLACK ALUMINUM

PLATE #28

SCALE:	NONE
DRAWN BY:	LB/RW/jds
DATE:	31 JUL 2020

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 UNITED STATES DISTRICT COURT

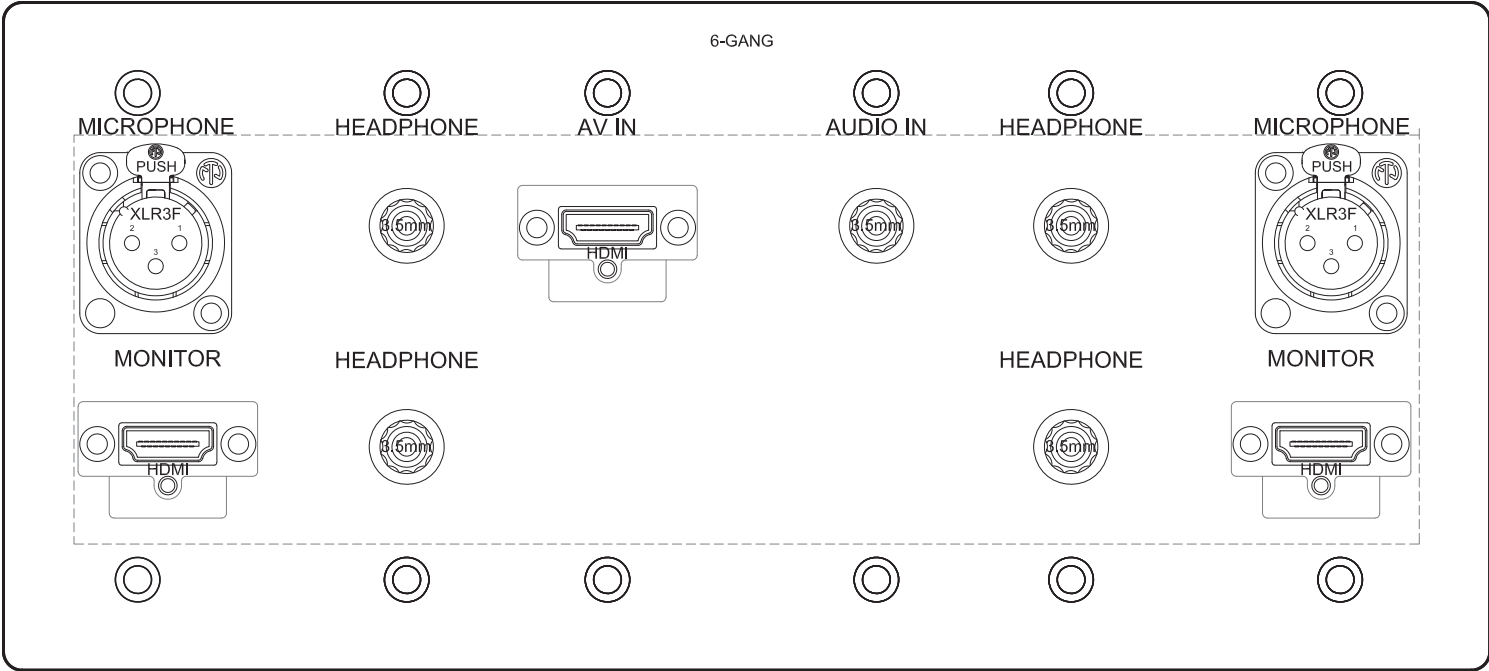
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TA728

DRAWING NOTE:
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SEE FLOOR PLANS
 FOR LOCATIONS



FINISH: SILVER ALUMINUM

PLATE #82

SCALE: NONE
 DRAWN BY: LB/RW/jds
 DATE: 31 JUL 2020

4TH FLOOR COURTROOM 442
 AKRON, OHIO
 UNITED STATES DISTRICT COURT

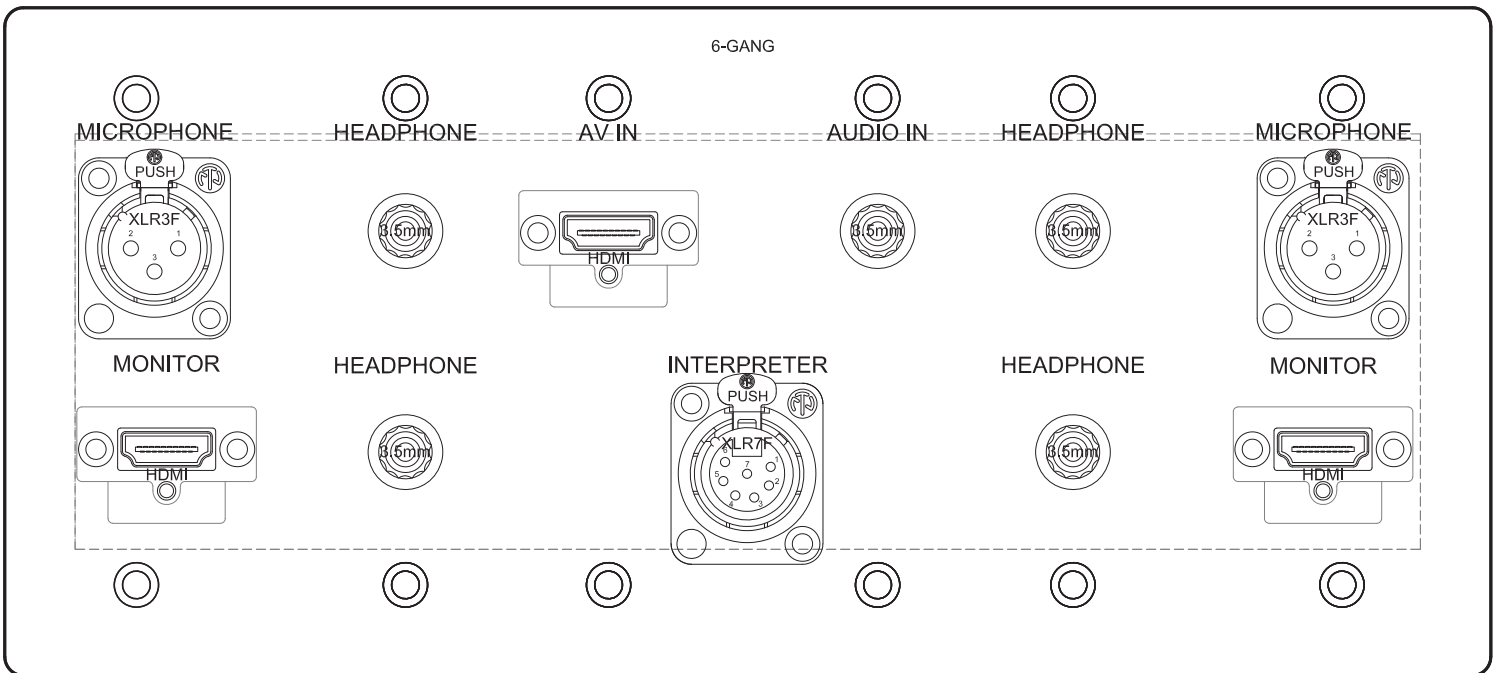
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TA782

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SEE FLOOR PLANS
 FOR LOCATIONS



FINISH: SILVER ALUMINUM

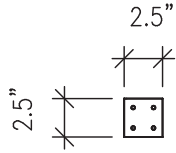
PLATE #84

SCALE: NONE
 DRAWN BY: LB/RW/jds
 DATE: 31 JUL 2020

4TH FLOOR COURTROOM 442
 AKRON, OHIO
 UNITED STATES DISTRICT COURT

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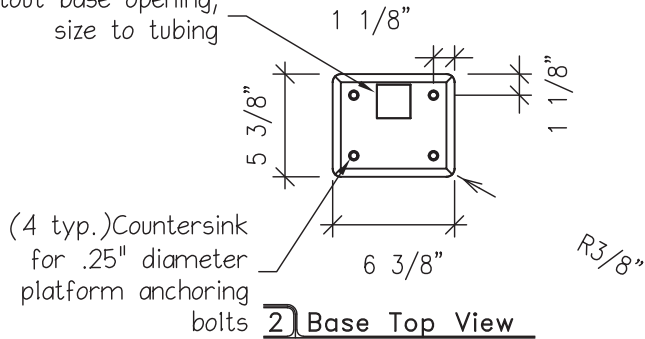
TA784



1) Pedestal Top View

No Scale

Cutout base opening, size to tubing



(4 typ.) Countersink for .25" diameter platform anchoring bolts

2) Base Top View

No Scale

(4 typ.) Drill and tap #10 internal thread, 1.063" sq, pattern if using Ergotron mount

φ1.75" grommet opening

3) Rear View

No Scale

Monitor mount location (adapt to mounting bracket)

Weld top plate to tubing, grind smooth

1.75" grommet opening

4) Front View

No Scale

2 1/4"

Weld tubing to base, grind smooth

2'-2" Overall Height

5) Iso View

No Scale

Note: Base may be above or below carpet, confirm with Court.
 Stock: Tubing: (see 1, 4 & 5) 2.5" sq, x 0.125" steel.
 Base: (see 2) 0.25" steel.
 Top plate: (see 1) 0.25" steel.
 Finish: All exposed surfaces to be provided with flat black powder coat finish unless otherwise noted.

Provide each post with one(1) Ergotron 47-092-800 premounted using supplied black covers.

Jury Box Monitor Mounts- Rear Post with Bottom Access: Details

SCALE:	NONE
DRAWN BY:	LB/RW/ jds
DATE:	31 JUL 2020

**4TH FLOOR COURTROOM 442
 AKRON, OHIO
 UNITED STATES DISTRICT COURT**

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TA807

