



CENTRALBIDDING
FROM CENTRAL AUCTION HOUSE

**5000132188 LABOR, MATERIALS AND EQUIPMENT NECESSARY TO
PROVIDE, INSTALL AND CONNECT SECURITY SURVEILLANCE
EQUIPMENT AT LAFITTE TOWN HALL FOR THE DEPARTMENT OF
EMERGENCY MANAGEMENT**
Jefferson Parish Government

Project documents obtained from www.CentralBidding.com

10-Sep-2020 12:14:47 PM



BID 50-132188

**LABOR, MATERIALS AND EQUIPMENT NECESSARY TO PROVIDE,
INSTALL AND CONNECT SECURITY SURVEILLANCE EQUIPMENT AT
LAFITTE TOWN HALL FOR THE DEPARTMENT OF EMERGENCY
MANAGEMENT**

September 15, 2020 @ 11:00 A.M.

ATTENTION VENDORS!!!

Please review all pages and respond accordingly, complying with all provisions in the technical specifications and Jefferson Parish Instructions for Bidders and General Terms and Conditions. All bids must be received in the Purchasing Department by the bid due date and time.

Jefferson Parish Purchasing Department

200 Derbigny Street, Suite 4400

Gretna, LA 70053

Please Email Questions To:

Mark BATTERY

MButtery@jeffparish.net

504-364-2810

INVITATION TO BID
THIS IS NOT AN ORDER

Page: 1

DATE: 9/09/2020

BID NO.: 50-00132188

JEFFERSON PARISH
PURCHASING DEPARTMENT
P.O. BOX 9
GRETNA, LA. 70054-0009
504-364-2678

VENDOR:

BUYER: MBUTTERY@jeffparish.net

Bids will be received until 11:00 AM, 9/15/2020 via online at www.jeffparishbids.net or by hand delivery, USPS mail or other courier service to Purchasing Department, 200 Derbigny Street (General Government Building), Suite 4400, Gretna, LA 70053. For convenience, bidders may also submit bids in the East Bank Purchasing Department, Suite 404, Jefferson Parish Joseph S. Yenni Building, 1221 Elmwood Park Blvd., Jefferson LA 70123. However, if submitting bids on the day of bid opening, bidders must submit at the West Bank location only.

All bids submitted are subject to these instructions and general conditions and any special conditions and specifications contained herein, all of which are made part of this bid proposal reference. By submitting a bid, vendor agrees to comply with all provisions of Louisiana Law, as well be in compliance with the Jefferson Parish Code of Ordinances, Louisiana Code of Ethics, applicable Jefferson Parish ethical standards and Jefferson Parish Resolution No. 113646 and/or Resolution No. 113647. A copy of these resolutions may be obtained from the Office of the Parish Clerk, Suite 6700, Jefferson Parish General Government Building, 200 Derbigny Street, Gretna, LA 70053. You may also obtain a copy by visiting the Purchasing Department webpage at purchasing.jeffparish.net and clicking on On-line forms.

All vendors submitting bids should register as a Jefferson Parish vendor if not already yet registered. Registration forms may be downloaded from <http://purchasing.jeffparish.net> and by clicking on Vendor Information. Current W-9 forms with respective Tax Identification numbers and vendor applications may be submitted at any time; however, if your company is not registered and/or a current W-9 form is not on file, vendor registration is mandatory. Vendors may experience a delay in payment if your company is not a registered vendor with Jefferson Parish.

As per LSA-RS 47:301 et seq., all governmental bodies are excluded from payment of sales taxes to any Louisiana taxing body. Quotations shall be based on F.O.B. Delivered, anywhere within the Parish as designated by the Purchasing Department. JEFFERSON PARISH WILL ACCEPT ONE BID ONLY FROM EACH VENDOR. Items bid must meet specifications. JEFFERSON PARISH will accept one price for each item unless otherwise indicated. Two or more prices for one item will result in bid rejection. Bidders are required to complete, sign and return the bid form and/or complete and return the associated line item pricing forms as indicated. The price quoted for work shall be stated in figures. In the event there is a difference in unit prices and totals, the unit prices shall prevail.

JEFFERSON PARISH reserves the right to award contracts or place orders on a lump sum or individual item basis, or such combination, as shall in its judgment be in the best interest of JEFFERSON PARISH. Every contract or order shall be awarded to the LOWEST RESPONSIVE and RESPONSIBLE BIDDER, taking into consideration the CONFORMITY WITH THE SPECIFICATIONS and the DELIVERY AND/OR COMPLETION DATE

PROTESTS: Only those vendors that submit bids in response to this solicitation may protest any element of the procurement, in writing to the Director of the Purchasing Department. Written protest must be received within 48 hours of the release of the bid tabulation by the Purchasing Department. After consultation, the Parish Attorney's Office will then respond to protests in writing. (For more information, please see Chapter 2, Article VII, Division 2, Sec. 2-914.1 of the Jefferson Parish Code of Ordinances.)

JEFFERSON PARISH reserves the right to cancel all or any part of an order if not shipped promptly. No charges will be allowed for parking or cartage unless specified in the quotation. The order must not be filed at a higher price than quoted. JEFFERSON PARISH reserves the right to cancel at any time and for any reason by issuing a THIRTY (30) day written notice to the contractor.

JEFFERSON PARISH requires all products to be new (current) and all work must be performed according to standard practices for the project. Unless otherwise specified, no aftermarket parts will be accepted. Unless otherwise specified, all workmanship and materials must have at least one (1) year guaranty, in writing, from the date of delivery and/or acceptance of the project. Any deviations or alteration from the specifications must be indicated on the bid form for each item and upon request, product data for same must be submitted by the time specified by the Purchasing Department.

If this bid requires a pre-bid conference (see Additional Requirements section), bidders are advised that such conference will be held to allow bidders the opportunity to identify any discrepancies in the bid specifications and seek further clarification regarding instructions. The Purchasing Department will issue a written response to bidders' questions in the form of an Addendum.

All formal Addenda require written acknowledgment on the bid form by the bidder. Failure to acknowledge an Addendum on the bid form shall cause the bid to be rejected; JEFFERSON PARISH reserves the right to award bid to next lowest responsive and responsible bidder in this event.

USE OF BRAND NAMES AND STOCK NUMBERS: Where brand names and stock numbers are specified, it is for the purpose of establishing certain minimum standards of quality. Bids may be submitted for products of equal quality, provided brand names and stock numbers are specified. Complete product data may be required prior to award.

Quantities listed are for bidding purposes only. Actual requirements may be more or less than quantities listed.

Bidders are not to exclude from participation in, deny the benefits of, or subject to discrimination under any program or activity, any person in the United States on the grounds of race, color, national origin, or sex; nor discriminate on the basis of age under the Age Discrimination Act of 1975, or with respect to an otherwise qualified handicapped individual as provided in Section 504 of the Rehabilitation Act of 1973, or on the basis of religion, except that any exemption from such prohibition against discrimination on the basis of religion as provided in the Civil Rights Act of 1964, or Title VI and VII of the Act of April 11, 1968, shall also apply. This assurance includes compliance with the administrative requirements of the Revenue Sharing final handicapped discrimination provisions contained in Section 51.55 (c), (d), (e), and (k)(5) of the Regulations. New construction or renovation projects must comply with Section 504 of the 1973 Rehabilitation Act, as amended, in accordance with the American National Standard Institute's specifications (ANSI A117.1-1961).

Jefferson Parish and its partners as the recipients of federal funds are fully committed to awarding a contract(s) to firm(s) that will provide high quality services and that are dedicated to diversity and to containing costs. Thus, Jefferson Parish strongly encourages the involvement of minority and/or woman-owned business enterprises (DBE's, including MBE's, WBE's and SBE's) to stimulate participation in procurement and assistance programs.

INSTRUCTIONS FOR BIDDERS AND GENERAL CONDITIONS

IN ACCORDANCE WITH STATE REGULATIONS JEFFERSON PARISH OFFERS ELECTRONIC PROCUREMENT TO ALL VENDORS

This electronic procurement system allows vendors the convenience of reviewing and submitting bids online. This is a secure site and authorized personnel have limited read access only. Bidders are encouraged to submit electronically using this free service; while the website accepts various file types, one single PDF file containing all appropriate and required bid documents is preferred. Bidders submitting uploaded images of bid responses are solely responsible for clarity. If uploaded images/documents are not legible, then bidder's submission will be rejected. Please note all requirements contained in this bid package for electronic bid submission.

Please visit our E-Procurement Page at www.jeffparishbids.net to register and view Jefferson Parish solicitations. For more information, please visit the Purchasing Department page at <http://purchasing.jeffparish.net>.

ADDITIONAL REQUIREMENTS FOR THIS BID

PLEASE MATCH THE NUMBERS PRINTED IN THIS BOX WITH THE CORRESPONDING INSTRUCTIONS BELOW.

5,6,10,13,16

1. All bidders must attend the MANDATORY pre-bid conference and will be required to sign in and out as evidence of attendance. In accordance with LSA R.S. 38:2212(I), all prospective bidders shall be present at the beginning of the MANDATORY pre-bid conference and shall remain in attendance for the duration of the conference. Any prospective bidder who fails to attend the conference or remain for the duration shall be prohibited from submitting a bid for the project.
2. Attendance to this pre-bid conference is optional. However, failure to attend the pre-bid conference shall not relieve the bidder of responsibility for information discussed at the conference. Furthermore, failure to attend the pre-bid conference and inspection does not relieve the successful bidder from the necessity of furnishing materials or performing any work that may be required to complete the work in accordance with the specification with no additional cost to the owner.
3. Contractor must hold current applicable JEFFERSON PARISH licenses with the Department of Inspection and Code Enforcement. Contractor shall obtain any and all permits required by the JEFFERSON PARISH Department of Inspection and Code Enforcement. The contractor shall be responsible for the payment of these permits. All permits must be obtained prior to the start of the project. Contractor must also hold any and all applicable Federal and State licenses. Contractor shall be responsible for the payment of these permits and shall obtain them prior to the start of the project.
4. A LA State Contractor's License will be required in accordance with LSA R.S. 37-2150 et. seq. and such license number will be shown on the outside of the bid envelope. Failure to comply will cause the bid to be rejected. Additionally if submitting the bid electronically, then the license number must be entered in the appropriate field in the Electronic Procurement system. Failure to comply will cause the bid to be rejected.
5. It is the bidder's responsibility to visit the job site and evaluate the job before submitting a bid.
6. Job site must be clean and free of all litter and debris daily and upon completion of the contract. Passageways must be kept clean and free of material, equipment, and debris at all times. Flammable material must be removed from the job site daily because storage will not be permitted on the premises. Precautions must be exercised at all times to safeguard the welfare of JEFFERSON PARISH and the general public.

INSTRUCTIONS FOR BIDDERS AND GENERAL CONDITIONS

7. PUBLIC WORKS BIDS: All awards for public works in excess of \$5,000.00 will be reduced to a formal contract which shall be recorded at the contractor's expense with the Clerk of Court and Ex-Officio Recorder of Mortgages for the Parish of Jefferson. A price list of recordation costs may be obtained from the Clerk of Court and Ex-Officio Recorder of Mortgages for the Parish of Jefferson. All awards in excess of \$25,000.00 will require both a performance and a payment bond. Unless otherwise stated in the bid specifications, the performance bond requirements shall be 100% of the contract price. Unless otherwise state in the bid specifications, the payment bond requirements shall be 100% of the contract price. Both bonds shall be supplied at the signing of the contract.
8. NON-PUBLIC WORKS BIDS: A performance bond will be required for this bid. The amount of the bond will be 100% of the contract price unless otherwise indicated in the specifications. The performance bond shall be supplied at the signing of the contract.
9. NON-PUBLIC WORKS BIDS: A payment bond will be required for this bid. The amount of the bond will be 100% of the contract price unless otherwise indicated in the specifications. The payment bond shall be supplied at the signing of the contract.
10. All bidders must comply with the requirements stated in the attached "Standard Insurance Requirements" sheet attached to this bid solicitation. Failure to comply with this instruction will result in bid rejection.
11. A bid bond will be required with bid submission in the amount of 5% of the total bid, unless otherwise stated in the bid specifications. Acceptable forms shall be limited to cashier's check, certified check, or surety bid bond. All sureties must be in original format (no copies). If submitting a bid online, vendors must submit an electronic bid bond through the respective online clearinghouse bond management system(s) as indicated in the electronic bid solicitation on Central Auction House. No scanned paper copies of any bid bond will be accepted as part of the electronic bid submission.
12. This is a requirements contract to be provided on an as needed basis. JEFFERSON PARISH makes no representations on warranties with regard to minimum guaranteed quantities unless otherwise stated in the bid specifications.
13. Freight charges should be included in total cost when quoting. If not quoted FOB DELIVERED, freight must be quoted as a separate item. Bid may be rejected if not quoted FOB DELIVERED or if freight charges are not indicated on bid form.
14. PUBLIC WORKS BIDS - Completed, Signed and Properly Notarized Affidavits Required; This applies to all solicitations for construction, alteration or demolition of public buildings or projects, in conformity with the provisions contained in LSA-RS 38:2212.9, LSA-RS 38:2212.10, LSA-RS 38:2224, and Sec 2-923.1 of the Jefferson Parish Code of Ordinances. For bidding purposes, all bidders must submit with bid submission COMPLETED, SIGNED and PROPERLY NOTARIZED Affidavits, including: Non-Conviction Affidavit, Non-Collusion Affidavit, Campaign Contribution Affidavit, Debt Disclosures Affidavit and E-Verify Affidavit. For the convenience of vendors, all affidavits have been combined into one form entitled PUBLIC WORKS BID AFFIDAVIT. This affidavit must be submitted in its original format, and without material alteration, in order to be compliant and for the bid to be considered responsive. A scanned copy of the completed, signed and properly notarized affidavit may be submitted with the bid, however, the successful bidder must submit the original affidavit in its original format and without material alteration upon contract execution. Failure to comply will result in the bid submission being rejected as non-responsive. The Parish reserves the right to award bid to the next lowest responsive and responsible bidder in this event.
15. NON PUBLIC WORK BIDS - Completed, Signed and Properly Notarized Affidavits Required in conformity with the provisions contained in LSA – RS 38:2224 and Sec 2-923.1 of the Jefferson Parish Code of Ordinances. For bidding purposes, all bidders must submit with bid submission COMPLETED, SIGNED and PROPERLY NOTARIZED Affidavits, including: Non-Collusion Affidavit, Debt Disclosures Affidavit and Campaign Contribution Affidavit. For the convenience of vendors, all affidavits have been combined into one form entitled NON PUBLIC WORKS BID AFFIDAVIT. This affidavit must be submitted in its original format, and without material alteration, in order to be compliant and for the bid to be considered responsive. A scanned copy of the completed, signed and properly notarized affidavit may be submitted with the bid, however, the successful bidder must submit the original affidavit in its original format and without material alteration upon contract execution. Failure to comply will result in the bid submission being rejected as non-responsive. The Parish reserves the right to award bid to the next lowest responsive and responsible bidder in this event.
16. The ensuing contract for this bid solicitation may be eligible for FEMA reimbursement and/or Federal funding/reimbursement. As such, the referenced appendix will be applicable accordingly and shall be considered a part of the bid documents. All applicable certifications must be duly completed, signed and submitted with bid submission. Failure to submit applicable certifications with bid submission will result in bid rejection.

It shall be the duty of every parish officer, employee, department, agency, special district, board, and commission: and the duty of every contractor, subcontractor, and licensee of the parish, and the duty of every applicant for certification of eligibility for a parish contract or program, to cooperate with the Inspector General in any investigation, audit, inspection, performance review, or hearing pursuant to JPCO 2-155.10(19). By signing this document, every corporation, partnership, or person contracting with PARISH, whether by cooperative endeavor, intergovernmental agreement, bid, proposal, application or solicitation for a parish contract, and every application for certification of eligibility for a parish contract or program, attests that it understands and will abide by all provisions of JPCO 2-155.10.

DATE: 9/09/2020

INVITATION TO BID
THIS IS NOT AN ORDER

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BID NO.: 50-00132188

JEFFERSON PARISH
PURCHASING DEPARTMENT
P.O. BOX 9
GRETNA, LA. 70054-0009
504-364-2678

VENDOR: Johnson Controls Inc

BUYER: MBUTTERY

As per LSA-RS 47:301 et seq., all governmental bodies are excluded from payment of sales taxes to any Louisiana taxing body. Quotations shall be based on F.O.B. Agency warehouse or jobsite, anywhere within the Parish as designated by the Purchasing Department.

JEFFERSON PARISH reserves the right to cancel all or any part of an order if not shipped promptly. No charges will be allowed for parking or cartage unless specified in quotation. The order must not be filled at a higher price than quoted. JEFFERSON PARISH reserves the right to cancel at any time and for any reason by issuing a THIRTY (30) day written notice to the contractor.

JEFFERSON PARISH is expecting all products to be new and all work to be done in workman-like manner, according to standard practices. Any deviations or alteration from the specifications must be indicated on the bid form for each item and upon request, product data for same must be submitted by the time specified by the Purchasing Department.

DELIVERY: FOB JEFFERSON PARISH	
INDICATE DELIVERY DATE ON EQUIPMENT AND SUPPLIES	<u>October 14, 2020</u>
INDICATE STARTING TIME (IN DAYS) FOR CONSTRUCTION WORK	<u>3 days</u>
INDICATE COMPLETION TIME (IN DAYS) FOR CONSTRUCTION WORK	<u>10 days</u>

In the event that addenda are issued with this bid, bidders **MUST** acknowledge all addenda on the bid form. Bidder must acknowledge receipt of an addendum on the bid form as indicated. Failure to acknowledge any addendum on the bid form will result in bid rejection.

Acknowledge Receipt of Addenda: NUMBER: Add #1 date September 14, 2020

NUMBER: _____

NUMBER: _____

NUMBER: _____

LOUISIANA CONTRACTOR'S LICENSE NO.: (if applicable) 504

*** ALL BIDDERS MUST COMPLETE SECTION BELOW ***	
FIRM NAME: johnson Controls Inc	Account Executive
SIGNATURE: (Must be signed here)	TITLE:
PRINT OR TYPE NAME: Michael Leiva	
ADDRESS: 2835 Hessmer Ave	
CITY, STATE: Metairie, LA	ZIP: 70002
TELEPHONE: (504) 919-8311	FAX: (800) 309-5079
EMAIL ADDRESS: michael.leiva@jci.com	

TOTAL PRICE OF ALL BID ITEMS: \$ \$21,608.36

INVITATION TO BID FROM JEFFERSON PARISH - continued

BID NO.: 50-00132188

SEALED BID

ITEM NUMBER	QUANTITY	U/M	DESCRIPTION OF ARTICLES	UNIT PRICE QUOTED	TOTALS
1	1.00	JOB	<p>LABOR, MATERIALS AND EQUIPMENT NECESSARY TO PROVIDE, INSTALL AND CONNECT SECURITY SURVEILLANCE EQUIPMENT AT LAFITTE TOWN HALL FOR THE DEPARTMENT OF EMERGENCY MGT</p> <p>0010 - LUX 16 CH 4TB DVR 1- LUX 16 CH 4TB DVR, SUPPORTS 16 BNC INPUTS + P TO 8 IP CAMERAS, AHD/TVI UP TO TP 5MP, CVI UP TP 4MP.960H IP 4K HDMI OUTPUT, OVER THE AIR FIRMWARE UPDATES, WEB INTERFACE FOR PC AND MAC, **IP CAMERAS WILL REQUIRE AN EXTERNAL POE SWITCH**</p> <p>1 - LUX 10TB SURVEILLANCE HARD DRIVE, 10TB STORAGE CAPACITY</p> <p>1 - TWO(2) METAL SHEDS INSTALLED IN CLOSET FOR DVR</p> <p>1 - BATTERY BACK UP SMART 1000, 1000 UPS 2U RACK MOUNT</p> <p>5 - LUX 5MP BULLET CAMERA, 5MP PREMIUM BULLET CAMERA HD-TV1, AUTO FOCUS, HD ANALOG, 2.8 12MM MOTORIZED LENS, DC12V, 2PC ARRAY LEDS / 150FT, OUTDOOR IVORY HOUSING</p> <p>3 - LUX 5MP EYEBALL CAMERA, 5MP PREMIUM EYEBALL CAMERA HD-TVI, AUTO FOCUS, HD ANALOG, 2.8-12MM MOTORIZED LENS, DC12V, 2PC ARRAY LEDS / 150FT, OUTDOOR IVORY HOUSING</p> <p>1 - ONE(1) 32" MONITOR, LOCATION: FRONT OFFICE</p> <p>1 - ARM2346HD BRACKET, TV BRACKET, FITS MOST 23" - 46", SUPPORTS UP TO 80LBS, MAX EXTENSION FROM WALL: 21.02", INCLUDES BRACKET AND INSTALL</p> <p>1 - HDMI EXTENDER, HDMI EXTENDER OVER SINCLE CAT5E WITH BI-DIRECTIONAL IR, 3D & 4K COMPATIBLE</p> <p>1 - WIRELESS MOUSE</p> <p>1 - ETHERNET HOOK UP, IT TECH TO SET UP CAMERA SYSTEM ON PHONES/ DEVICES</p> <p>1 - DOOR LOCK, Z-WAVE TOUCHSCREEN DEADBOLT LOCK, RUB BRONZE, (SECURITY ACCESS ONLY TO PHONE ROOM)</p> <p>*FOR THE TOWN OF LAFITTE, TO BE PLACED USED AT LAFITTE TOWN HALL*</p>	\$21,608.36	\$21,608.36

Debarment/Suspension Form

DEBARMENT/SUSPENSION CERTIFICATION

Debarment:

Federal Executive Order (E.O.) 12549 "Debarment" requires that all contractors receiving individual awards, using federal funds, and all subrecipients certify that the organization and its principals are not debarred, suspended, proposed for debarment, declared ineligible, or voluntarily excluded by any Federal department or agency from doing business with the Federal Government. By signing this document you certify that your organization and its principals are not debarred. Failure to comply or attempts to edit this language may disqualify your bid. Information on debarment is available at the following websites: www.sam.gov and <https://acquisition.gov/far/index.html> see section 52.209-6.

Your signature certifies that neither you nor your principal is presently debarred, suspended, proposed for debarment, declared ineligible, or voluntarily excluded from participation in this transaction by any federal department or agency.

Michael Leiva Account Executive

(Name and Title of bidder's official)

Johnson Controls Inc

(Name of bidder/company)

2835 Hessmer Ave

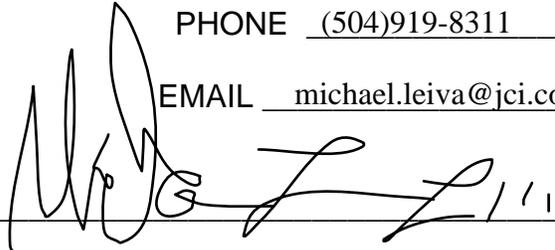
(Address)

Metairie, LA 70002

(Address)

PHONE (504)919-8311 FAX (800) 309-5079

EMAIL michael.leiva@jci.com

 Signature September 16, 2020 Date

STANDARD INSURANCE REQUIREMENTS FOR BIDDING PURPOSES

All required insurance under this bid shall conform to Jefferson Parish Resolution No. 113646 or No. 113647, as applicable. Contractors may not commence any work under any ensuing contract unless and until all required insurance and associated evidentiary requirements thereto have been met, along with any additional specifications contained in the **Invitation to Bid**. Except as where otherwise precluded by law, the Parish Attorney or his designee, with the concurrence of the Director of Risk Management or his designee, may agree on a case-by-case basis, to deviate from Jefferson Parish's standard insurance requirements, as provided in this Section. Vendors requesting deviation therefrom shall submit such requests in writing, along with compelling substantiation, to the Purchasing Department prior to the bid's due date. Any changes to the insurance requirements will be reflected in the bid specifications and addenda. Prior to contract execution and at all times thereafter during the term of such contract, contractors must provide and continuously maintain all coverages as required by the foregoing Resolutions, and the contract documents. Failure to do so shall be grounds for suspension, discontinuation or termination of the contract.

For bidding purposes, bidders must submit with bid submission a current (valid) insurance certificate evidencing the required coverages. Failure to comply will cause bid to be rejected. The current insurance certificate will be used for proof of insurance at time of evaluation. Thereafter, and prior to contract execution, the low bidder will be required to provide final insurance certificates to the Parish which shall name **the Jefferson Parish, its Districts Departments and Agencies under the direction of the Parish President and the Parish Council** as additional insureds regarding negligence by the contractor for the Commercial General Liability, Workmen's Compensation Insurance and the Comprehensive Automobile Liability policies. Additionally, said certificates should reflect the name of the Parish Department receiving goods and services and reference the respective Jefferson Parish bid number.

JEFFERSON PARISH REQUIRED STANDARD INSURANCE



WORKER'S COMPENSATION INSURANCE

As required by Louisiana State Statute, exception; Employer's Liability, Section B shall be \$1,000,000 per occurrence when Work is to be over water and involves maritime exposures to cover all employees not covered under the State Worker's Compensation Act, otherwise this limit shall be no less than \$500,000 per occurrence.

Note: If your company is not required by law to carry workmen's compensation insurance, i.e. not a Louisiana company, sole employee of the company, then bidders must request a workmen's compensation insurance declaration affidavit prior to the bid opening date. This insurance declaration affidavit must be fully completed, signed, properly notarized and submitted with the bid. A scanned copy may be submitted with the bid; however, the successful bidder must submit the original affidavit in its original format and without material alteration upon contract execution. Failure to comply will result in the bid submission being

rejected as non-responsive. The Parish reserves the right to award bid to the next lowest responsive and responsible bidder in this event.

COMMERCIAL GENERAL LIABILITY

Shall provide limits not less than the following: \$1,000,000.00 Combined Single Limit per Occurrence for bodily injury and property damage.

COMPREHENSIVE AUTOMOBILE LIABILITY

Bodily injury liability \$1,000,000.00 each person; \$1,000,000.00 each occurrence.
Property Damage Liability \$1,000,000.00 each occurrence.

Note: This category may be omitted if bidders do not/will not utilize company vehicles for the project or do not possess company vehicles. Bidder must request an automobile insurance declaration affidavit prior to the bid opening date. This insurance declaration affidavit must be fully completed, signed, properly notarized and submitted with the bid. A scanned copy of the completed, signed and properly notarized affidavit may be submitted with the bid; however, the successful bidder must submit the original affidavit in its original format and without material alteration upon contract execution. Failure to comply will result in the bid submission being rejected as non-responsive. The Parish reserves the right to award bid to the next lowest responsive and responsible bidder in this event.

DEDUCTIBLES - The Parish Attorney with concurrence of the Director of Risk Management have waived the deductible section of the Terms and Conditions for all Invitations to Bid, until further notice.

UMBRELLA LIABILITY COVERAGE

An umbrella policy or excess may be used to meet minimum requirements.

FOR CONSTRUCTION AND RENOVATION PROJECTS:

The following are required unless otherwise specified in the bid. Such insurance is due upon contract execution.

1) **OWNER'S PROTECTIVE LIABILITY**

To be for the same limits of liability for bodily injury and property damage liability established for commercial general liability.

2) **BUILDER'S RISK INSURANCE**

The contractor shall maintain Builder's Risk Insurance at his own expense to insure both the owner (Parish of Jefferson) and contractor as their interest may appear.

APPENDIX A: The ensuing contract for this bid solicitation may be eligible for Federal Funding reimbursement. As such Appendix will applicable accordingly and shall be considered a part of the bid documents. All applicable certifications must be duly completed, signed and included in bid submission. Failure to do so will result in bid rejection. [Bid number 50-00132188], LABOR, MATERIALS AND EQUIPMENT NECESSARY TO PROVIDE, INSTALL AND CONNECT SECURITY SURVEILLANCE EQUIPMENT AT LAFITTE TOWN HALL FOR THE DEPARTMENT OF EMERGENCY MANAGEMENT

CONTRACT PROVISIONS FOR NON-FEDERAL ENTITY UNDER FEDERAL AWARDS REQUIRED BY APPENDIX II TO 2 CFR §200

REMEDIES

(For all awarded contracts with a value greater than \$150,000.00)

Any violation or breach of terms of this contract on the part of the Contractor or the Contractor's subcontractors may result in the suspension or termination of this contract or such other action that may be necessary to enforce the rights of the parties of this contract. The duties and obligations imposed by the contract documents and the rights and remedies available thereunder shall be in addition to and not a limitation of any duties, obligations, rights and remedies otherwise imposed or available by law.

Any violation or breach of terms of this contract of the Contractor or the Contractor's subcontractors will be subject to the remedies, including liquidated damages, described in the bid specifications or Request for Proposal and the Jefferson Parish General Terms and Conditions which are incorporated herein by reference in their entirety.

TERMINATION FOR CAUSE AND CONVENIENCE

(For all awarded contracts with a value greater than \$10,000.00)

Jefferson Parish reserves the right to terminate this contract for cause or convenience pursuant to the General Terms and Conditions which are incorporated herein by reference in their entirety.

EQUAL EMPLOYMENT OPPORTUNITY

(For all awarded contracts that meet the definition of "federally assisted construction contract" provided in 41 CFR Part 60-1.3)

During the performance of this contract, the contractor agrees as follows:

- (1) The contractor will not discriminate against any employee or applicant for employment because of race, color, religion, sex, sexual orientation, gender identity, or national origin. The contractor will take affirmative action to ensure that applicants are employed, and that employees are treated during employment without regard to their race, color, religion, sex, sexual orientation, gender identity, or national origin. Such action shall include, but not be limited to the following:

Employment, upgrading, demotion, or transfer; recruitment or recruitment advertising; layoff or termination; rates of pay or other forms of compensation; and selection for training, including apprenticeship. The contractor agrees to post

APPENDIX A: The ensuing contract for this bid solicitation may be eligible for Federal Funding reimbursement. As such Appendix will applicable accordingly and shall be considered a part of the bid documents. All applicable certifications must be duly completed, signed and included in bid submission. Failure to do so will result in bid rejection. [Bid number 50-00132188], LABOR, MATERIALS AND EQUIPMENT NECESSARY TO PROVIDE, INSTALL AND CONNECT SECURITY SURVEILLANCE EQUIPMENT AT LAFITTE TOWN HALL FOR THE DEPARTMENT OF EMERGENCY MANAGEMENT

in conspicuous places, available to employees and applicants for employment, notices to be provided setting forth the provisions of this nondiscrimination clause.

- (2) The contractor will, in all solicitations or advertisements for employees placed by or on behalf of the contractor, state that all qualified applicants will receive consideration for employment without regard to race, color, religion, sex, sexual orientation, gender identity, or national origin.
- (3) The contractor will not discharge or in any other manner discriminate against any employee or applicant for employment because such employee or applicant has inquired about, discussed, or disclosed the compensation of the employee or applicant or another employee or applicant. This provision shall not apply to instances in which an employee who has access to the compensation information of other employees or applicants as a part of such employee's essential job functions discloses the compensation of such other employees or applicants to individuals who do not otherwise have access to such information, unless such disclosure is in response to a formal complaint or charge, in furtherance of an investigation, proceeding, hearing, or action, including an investigation conducted by the employer, or is consistent with the contractor's legal duty to furnish information.
- (4) The contractor will send to each labor union or representative of workers with which he has a collective bargaining agreement or other contract or understanding, a notice to be provided advising the said labor union or workers' representatives of the contractor's commitments under this section, and shall post copies of the notice in conspicuous places available to employees and applicants for employment.
- (5) The contractor will comply with all provisions of Executive Order 11246 of September 24, 1965, and of the rules, regulations, and relevant orders of the Secretary of Labor.
- (6) The contractor will furnish all information and reports required by Executive Order 11246 of September 24, 1965, and by rules, regulations, and orders of the Secretary of Labor, or pursuant thereto, and will permit access to his books, records, and accounts by the administering agency and the Secretary of Labor for purposes of investigation to ascertain compliance with such rules, regulations, and orders.
- (7) In the event of the contractor's noncompliance with the nondiscrimination clauses of this contract or with any of the said rules, regulations, or orders, this contract may be canceled, terminated, or suspended in whole or in part and the contractor may be declared ineligible for further Government contracts or federally assisted construction contracts in accordance with procedures authorized in Executive Order 11246 of September 24, 1965, and such other sanctions may be imposed and remedies invoked as provided in Executive Order 11246 of September 24, 1965, or by rule, regulation, or order of the Secretary of Labor, or as otherwise provided by law.
- (8) The contractor will include the portion of the sentence immediately preceding paragraph (1) and the provisions of paragraphs (1) through (8) in every subcontract or

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purchase order unless exempted by rules, regulations, or orders of the Secretary of Labor issued pursuant to section 204 of Executive Order 11246 of September 24, 1965, so that such provisions will be binding upon each subcontractor or vendor. The contractor will take such action with respect to any subcontract or purchase order as the administering agency may direct as a means of enforcing such provisions, including sanctions for noncompliance: *Provided*, however, that in the event a contractor becomes involved in, or is threatened with, litigation with a subcontractor or vendor as a result of such direction by the administering agency, the contractor may request the United States to enter into such litigation to protect the interests of the United States.

DAVIS-BACON ACT AND COPELAND “ANTI-KICKBACK” ACT

(For all awarded construction contracts with a value greater than \$2,000.00)

(1) *Minimum wages.*

(i) All laborers and mechanics employed or working upon the site of the work (or under the United States Housing Act of 1937 or under the Housing Act of 1949 in the construction or development of the project), will be paid unconditionally and not less often than once a week, and without subsequent deduction or rebate on any account (except such payroll deductions as are permitted by regulations issued by the Secretary of Labor under the Copeland Act (29 CFR part 3)), the full amount of wages and bona fide fringe benefits (or cash equivalents thereof) due at time of payment computed at rates not less than those contained in the wage determination of the Secretary of Labor which is attached hereto and made a part hereof, regardless of any contractual relationship which may be alleged to exist between the contractor and such laborers and mechanics.

Contributions made or costs reasonably anticipated for bona fide fringe benefits under section 1(b)(2) of the Davis-Bacon Act on behalf of laborers or mechanics are considered wages paid to such laborers or mechanics, subject to the provisions of paragraph (a)(1)(iv) of this section; also, regular contributions made or costs incurred for more than a weekly period (but not less often than quarterly) under plans, funds, or programs which cover the particular weekly period, are deemed to be constructively made or incurred during such weekly period. Such laborers and mechanics shall be paid the appropriate wage rate and fringe benefits on the wage determination for the classification of work actually performed, without regard to skill, except as provided in §5.5(a)(4). Laborers or mechanics performing work in more than one classification may be compensated at the rate specified for each classification for the time actually worked therein: *Provided*, That the employer's payroll records accurately set forth the time spent in each classification in which work is performed. The wage determination (including any additional classification and wage rates conformed under paragraph (a)(1)(ii) of this section) and the Davis-Bacon poster (WH-1321) shall be posted at all times by the contractor and its subcontractors at the site of the work in a prominent and accessible place where it can be easily seen by the workers.

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(ii) (A) The contracting officer shall require that any class of laborers or mechanics, including helpers, which is not listed in the wage determination and which is to be employed under the contract shall be classified in conformance with the wage determination. The contracting officer shall approve an additional classification and wage rate and fringe benefits therefore only when the following criteria have been met:

(1) The work to be performed by the classification requested is not performed by a classification in the wage determination; and

(2) The classification is utilized in the area by the construction industry; and

(3) The proposed wage rate, including any bona fide fringe benefits, bears a reasonable relationship to the wage rates contained in the wage determination.

(B) If the contractor and the laborers and mechanics to be employed in the classification (if known), or their representatives, and the contracting officer agree on the classification and wage rate (including the amount designated for fringe benefits where appropriate), a report of the action taken shall be sent by the contracting officer to the Administrator of the Wage and Hour Division, Employment Standards Administration, U.S. Department of Labor, Washington, DC 20210. The Administrator, or an authorized representative, will approve, modify, or disapprove every additional classification action within 30 days of receipt and so advise the contracting officer or will notify the contracting officer within the 30-day period that additional time is necessary.

(C) In the event the contractor, the laborers or mechanics to be employed in the classification or their representatives, and the contracting officer do not agree on the proposed classification and wage rate (including the amount designated for fringe benefits, where appropriate), the contracting officer shall refer the questions, including the views of all interested parties and the recommendation of the contracting officer, to the Administrator for determination. The Administrator, or an authorized representative, will issue a determination within 30 days of receipt and so advise the contracting officer or will notify the contracting officer within the 30-day period that additional time is necessary.

(D) The wage rate (including fringe benefits where appropriate) determined pursuant to paragraphs (a)(1)(ii) (B) or (C) of this section, shall be paid to all workers performing work in the classification under this contract from the first day on which work is performed in the classification.

(iii) Whenever the minimum wage rate prescribed in the contract for a class of laborers or mechanics includes a fringe benefit which is not expressed as an hourly rate, the contractor shall either pay the benefit as stated in the wage determination or shall pay another bona fide fringe benefit or an hourly cash equivalent thereof.

(iv) If the contractor does not make payments to a trustee or other third person, the contractor may consider as part of the wages of any laborer or mechanic the amount of any costs reasonably anticipated in providing bona fide fringe benefits under a plan or program, *Provided*, That the Secretary of Labor has found, upon the written request of

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the contractor, that the applicable standards of the Davis-Bacon Act have been met. The Secretary of Labor may require the contractor to set aside in a separate account assets for the meeting of obligations under the plan or program.

(2) *Withholding.*

The Federal Agency and/or Jefferson Parish shall upon its own action or upon written request of an authorized representative of the Department of Labor withhold or cause to be withheld from the contractor under this contract or any other Federal contract with the same prime contractor, or any other federally-assisted contract subject to Davis-Bacon prevailing wage requirements, which is held by the same prime contractor, so much of the accrued payments or advances as may be considered necessary to pay laborers and mechanics, including apprentices, trainees, and helpers, employed by the contractor or any subcontractor the full amount of wages required by the contract. In the event of failure to pay any laborer or mechanic, including any apprentice, trainee, or helper, employed or working on the site of the work (or under the United States Housing Act of 1937 or under the Housing Act of 1949 in the construction or development of the project), all or part of the wages required by the contract, the (Agency) may, after written notice to the contractor, sponsor, applicant, or owner, take such action as may be necessary to cause the suspension of any further payment, advance, or guarantee of funds until such violations have ceased.

(3) *Payrolls and basic records.*

(i) Payrolls and basic records relating thereto shall be maintained by the contractor during the course of the work and preserved for a period of three years thereafter for all laborers and mechanics working at the site of the work (or under the United States Housing Act of 1937, or under the Housing Act of 1949, in the construction or development of the project). Such records shall contain the name, address, and social security number of each such worker, his or her correct classification, hourly rates of wages paid (including rates of contributions or costs anticipated for bona fide fringe benefits or cash equivalents thereof of the types described in section 1(b)(2)(B) of the Davis-Bacon Act), daily and weekly number of hours worked, deductions made and actual wages paid. Whenever the Secretary of Labor has found under 29 CFR 5.5(a)(1)(iv) that the wages of any laborer or mechanic include the amount of any costs reasonably anticipated in providing benefits under a plan or program described in section 1(b)(2)(B) of the Davis-Bacon Act, the contractor shall maintain records which show that the commitment to provide such benefits is enforceable, that the plan or program is financially responsible, and that the plan or program has been communicated in writing to the laborers or mechanics affected, and records which show the costs anticipated or the actual cost incurred in providing such benefits. Contractors employing apprentices or trainees under approved programs shall maintain written evidence of the registration of apprenticeship programs and certification of trainee programs, the registration of the apprentices and trainees, and the ratios and wage rates prescribed in the applicable programs.

(ii) (A) The contractor shall submit weekly for each week in which any contract work is performed a copy of all payrolls to the federal agency if the agency is a party to the contract, but if the agency is not such a party, the contractor will submit the

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payrolls to the applicant, sponsor, or owner, as the case may be, for transmission to the federal agency. The payrolls submitted shall set out accurately and completely all of the information required to be maintained under 29 CFR 5.5(a)(3)(i), except that full social security numbers and home addresses shall not be included on weekly transmittals. Instead the payrolls shall only need to include an individually identifying number for each employee (*e.g.*, the last four digits of the employee's social security number). The required weekly payroll information may be submitted in any form desired. Optional Form WH-347 is available for this purpose from the Wage and Hour Division Web site at <http://www.dol.gov/esa/whd/forms/wh347instr.htm> or its successor site. The prime contractor is responsible for the submission of copies of payrolls by all subcontractors. Contractors and subcontractors shall maintain the full social security number and current address of each covered worker, and shall provide them upon request to the federal agency if the agency is a party to the contract, but if the agency is not such a party, the contractor will submit them to the applicant, sponsor, or owner, as the case may be, for transmission to the federal agency, the contractor, or the Wage and Hour Division of the Department of Labor for purposes of an investigation or audit of compliance with prevailing wage requirements. It is not a violation of this section for a prime contractor to require a subcontractor to provide addresses and social security numbers to the prime contractor for its own records, without weekly submission to the sponsoring government agency (or the applicant, sponsor, or owner).

(B) Each payroll submitted shall be accompanied by a "Statement of Compliance," signed by the contractor or subcontractor or his or her agent who pays or supervises the payment of the persons employed under the contract and shall certify the following:

- (1) That the payroll for the payroll period contains the information required to be provided under §5.5 (a)(3)(ii) of Regulations, 29 CFR part 5, the appropriate information is being maintained under §5.5 (a)(3)(i) of Regulations, 29 CFR part 5, and that such information is correct and complete;
- (2) That each laborer or mechanic (including each helper, apprentice, and trainee) employed on the contract during the payroll period has been paid the full weekly wages earned, without rebate, either directly or indirectly, and that no deductions have been made either directly or indirectly from the full wages earned, other than permissible deductions as set forth in Regulations, 29 CFR part 3;
- (3) That each laborer or mechanic has been paid not less than the applicable wage rates and fringe benefits or cash equivalents for the classification of work performed, as specified in the applicable wage determination incorporated into the contract.

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(C) The weekly submission of a properly executed certification set forth on the reverse side of Optional Form WH-347 shall satisfy the requirement for submission of the “Statement of Compliance” required by paragraph (a)(3)(ii)(B) of this section.

(D) The falsification of any of the above certifications may subject the contractor or subcontractor to civil or criminal prosecution under section 1001 of title 18 and section 231 of title 31 of the United States Code.

(iii) The contractor or subcontractor shall make the records required under paragraph (a)(3)(i) of this section available for inspection, copying, or transcription by authorized representatives of the federal agency or the Department of Labor, and shall permit such representatives to interview employees during working hours on the job. If the contractor or subcontractor fails to submit the required records or to make them available, the Federal agency may, after written notice to the contractor, sponsor, applicant, or owner, take such action as may be necessary to cause the suspension of any further payment, advance, or guarantee of funds. Furthermore, failure to submit the required records upon request or to make such records available may be grounds for debarment action pursuant to 29 CFR 5.12.

(4) *Apprentices and trainees*—

(i) *Apprentices.* Apprentices will be permitted to work at less than the predetermined rate for the work they performed when they are employed pursuant to and individually registered in a bona fide apprenticeship program registered with the U.S. Department of Labor, Employment and Training Administration, Office of Apprenticeship Training, Employer and Labor Services, or with a State Apprenticeship Agency recognized by the Office, or if a person is employed in his or her first 90 days of probationary employment as an apprentice in such an apprenticeship program, who is not individually registered in the program, but who has been certified by the Office of Apprenticeship Training, Employer and Labor Services or a State Apprenticeship Agency (where appropriate) to be eligible for probationary employment as an apprentice. The allowable ratio of apprentices to journeymen on the job site in any craft classification shall not be greater than the ratio permitted to the contractor as to the entire work force under the registered program. Any worker listed on a payroll at an apprentice wage rate, who is not registered or otherwise employed as stated above, shall be paid not less than the applicable wage rate on the wage determination for the classification of work actually performed. In addition, any apprentice performing work on the job site in excess of the ratio permitted under the registered program shall be paid not less than the applicable wage rate on the wage determination for the work actually performed. Where a contractor is performing construction on a project in a locality other than that in which its program is registered, the ratios and wage rates (expressed in percentages of the journeyman's hourly rate) specified in the contractor's or subcontractor's registered program shall be observed. Every apprentice must be paid at not less than the rate specified in the registered program for the apprentice's level of progress, expressed as a percentage of the journeymen hourly rate specified in the applicable wage determination. Apprentices shall be paid fringe

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benefits in accordance with the provisions of the apprenticeship program. If the apprenticeship program does not specify fringe benefits, apprentices must be paid the full amount of fringe benefits listed on the wage determination for the applicable classification. If the Administrator determines that a different practice prevails for the applicable apprentice classification, fringes shall be paid in accordance with that determination. In the event the Office of Apprenticeship Training, Employer and Labor Services, or a State Apprenticeship Agency recognized by the Office, withdraws approval of an apprenticeship program, the contractor will no longer be permitted to utilize apprentices at less than the applicable predetermined rate for the work performed until an acceptable program is approved.

(ii) *Trainees*. Except as provided in 29 CFR 5.16, trainees will not be permitted to work at less than the predetermined rate for the work performed unless they are employed pursuant to and individually registered in a program which has received prior approval, evidenced by formal certification by the U.S. Department of Labor, Employment and Training Administration. The ratio of trainees to journeymen on the job site shall not be greater than permitted under the plan approved by the Employment and Training Administration. Every trainee must be paid at not less than the rate specified in the approved program for the trainee's level of progress, expressed as a percentage of the journeyman hourly rate specified in the applicable wage determination. Trainees shall be paid fringe benefits in accordance with the provisions of the trainee program. If the trainee program does not mention fringe benefits, trainees shall be paid the full amount of fringe benefits listed on the wage determination unless the Administrator of the Wage and Hour Division determines that there is an apprenticeship program associated with the corresponding journeyman wage rate on the wage determination which provides for less than full fringe benefits for apprentices. Any employee listed on the payroll at a trainee rate who is not registered and participating in a training plan approved by the Employment and Training Administration shall be paid not less than the applicable wage rate on the wage determination for the classification of work actually performed. In addition, any trainee performing work on the job site in excess of the ratio permitted under the registered program shall be paid not less than the applicable wage rate on the wage determination for the work actually performed. In the event the Employment and Training Administration withdraws approval of a training program, the contractor will no longer be permitted to utilize trainees at less than the applicable predetermined rate for the work performed until an acceptable program is approved.

(iii) *Equal employment opportunity*. The utilization of apprentices, trainees and journeymen under this part shall be in conformity with the equal employment opportunity requirements of Executive Order 11246, as amended, and 29 CFR part 30.

(5) *Compliance with Copeland Act requirements*. The contractor shall comply with the requirements of 29 CFR part 3, which are incorporated by reference in this contract.

(6) *Subcontracts*. The contractor or subcontractor shall insert in any subcontracts the clauses contained in 29 CFR 5.5(a)(1) through (10) and such other clauses as the Federal Agency may by appropriate instructions require, and also a clause requiring the subcontractors to include these

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clauses in any lower tier subcontracts. The prime contractor shall be responsible for the compliance by any subcontractor or lower tier subcontractor with all the contract clauses in 29 CFR 5.5.

(7) *Contract termination: debarment.* A breach of the contract clauses in 29 CFR 5.5 may be grounds for termination of the contract, and for debarment as a contractor and a subcontractor as provided in 29 CFR 5.12.

(8) *Compliance with Davis-Bacon and Related Act requirements.* All rulings and interpretations of the Davis-Bacon and Related Acts contained in 29 CFR parts 1, 3, and 5 are herein incorporated by reference in this contract.

(9) *Disputes concerning labor standards.* Disputes arising out of the labor standards provisions of this contract shall not be subject to the general disputes clause of this contract. Such disputes shall be resolved in accordance with the procedures of the Department of Labor set forth in 29 CFR parts 5, 6, and 7. Disputes within the meaning of this clause include disputes between the contractor (or any of its subcontractors) and the contracting agency, the U.S. Department of Labor, or the employees or their representatives.

(10) *Certification of eligibility.*

(i) By entering into this contract, the contractor certifies that neither it (nor he or she) nor any person or firm who has an interest in the contractor's firm is a person or firm ineligible to be awarded Government contracts by virtue of section 3(a) of the Davis-Bacon Act or 29 CFR 5.12(a)(1).

(ii) No part of this contract shall be subcontracted to any person or firm ineligible for award of a Government contract by virtue of section 3(a) of the Davis-Bacon Act or 29 CFR 5.12(a)(1).

(iii) The penalty for making false statements is prescribed in the U.S. Criminal Code, 18 U.S.C. 1001.

CONTRACT WORK HOURS AND SAFETY STANDARDS ACT

(for all awarded contracts related to “mechanics and laborers” with a value greater than \$100,000.00)

(1) Overtime requirements. No contractor or subcontractor contracting for any part of the contract work which may require or involve the employment of laborers or mechanics shall require or permit any such laborer or mechanic in any workweek in which he or she is employed on such work to work in excess of 40 hours in such workweek unless such laborer or mechanic receives compensation at a rate not less than one and one-half times the basic rate of pay for all hours worked in excess of 40 hours in such workweek.

(2) Violation; liability for unpaid wages; liquidated damages. In the event of any violation of the clause set forth in subparagraph (1) of this paragraph, the contractor and any subcontractor responsible therefor shall be liable for the unpaid wages. In addition, such contractor and subcontractor shall be liable to the United States (in the case of work done under contract for the

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District of Columbia or a territory, to such District or to such territory), for liquidated damages. Such liquidated damages shall be computed with respect to each individual laborer or mechanic, including watchmen and guards, employed in violation of the clause set forth in subparagraph (1) of this paragraph, in the sum of \$10 for each calendar day on which such individual was required or permitted to work in excess of the standard workweek of 40 hours without payment of the overtime wages required by the clause set forth in sub paragraph (1) of this paragraph.

(3) Withholding for unpaid wages and liquidated damages. The federal agency and/or Jefferson Parish shall upon its own action or upon written request of an authorized representative of the Department of Labor withhold or cause to be withheld, from any moneys payable on account of work performed by the contractor or subcontractor under any such contract or any other Federal contract with the same prime contract, or any other Federally-assisted contract subject to the Contract Work Hours and Safety Standards Act which is held by the same prime contractor such sums as may be determined to be necessary to satisfy any liabilities of such contractor or subcontractor for unpaid wages and liquidated damages as provided in the clause set forth in subparagraph (2) of this paragraph.

(4) Subcontracts. The contractor or subcontractor shall insert in any subcontracts the clauses set forth in subparagraph (1) through (4) of this paragraph and also a clause requiring the subcontractors to include these clauses in any lower tier subcontracts. The prime contractor shall be responsible for compliance by any subcontractor or lower tier subcontractor with the clauses set forth in subparagraphs (1) through (4) of this paragraph.

RIGHTS TO INVENTIONS MADE UNDER A CONTRACT OR AGREEMENT

(if federal award meets definition of “funding agreement” under 37 CFR §401.2(a), for all awarded contracts related to experimental, developmental, or research work type contracts)

(a) Definitions

(1) *Invention* means any invention or discovery which is or may be patentable or otherwise protectable under Title 35 of the United States Code, or any novel variety of plant which is or may be protected under the Plant Variety Protection Act (7 U.S.C. 2321 *et seq.*).

(2) *Subject invention* means any invention of the *contractor* conceived or first actually reduced to practice in the performance of work under this *contract*, provided that in the case of a variety of plant, the date of determination (as defined in section 41(d) of the Plant Variety Protection Act, 7 U.S.C. 2401(d)) must also occur during the period of *contract* performance.

(3) *Practical Application* means to manufacture in the case of a composition or product, to practice in the case of a process or method, or to operate in the case of a machine or system; and, in each case, under such conditions as to establish that the invention is being utilized and that its benefits are, to the extent permitted by law or government regulations, available to the public on reasonable terms.

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(4) *Made* when used in relation to any invention means the conception or first actual reduction to practice of such invention.

(5) *Small Business Firm* means a small business concern as defined at section 2 of Pub. L. 85-536 (15 U.S.C. 632) and implementing regulations of the Administrator of the Small Business Administration. For the purpose of this clause, the size standards for small business concerns involved in government procurement and subcontracting at 13 CFR 121.3-8 and 13 CFR 121.3-12, respectively, will be used.

(6) *Nonprofit Organization* means a university or other institution of higher education or an organization of the type described in section 501(c)(3) of the Internal Revenue Code of 1954 (26 U.S.C. 501(c)) and exempt from taxation under section 501(a) of the Internal Revenue Code (25 U.S.C. 501(a)) or any nonprofit scientific or educational organization qualified under a state nonprofit organization statute.

(b) Allocation of Principal Rights

The *Contractor* may retain the entire right, title, and interest throughout the world to each subject invention subject to the provisions of this clause and 35 U.S.C. 203. With respect to any subject invention in which the *Contractor* retains title, the Federal government shall have a nonexclusive, nontransferable, irrevocable, paid-up license to practice or have practiced for or on behalf of the United States the subject invention throughout the world.

(c) Invention Disclosure, Election of Title and Filing of Patent Application by *Contractor*

(1) The *contractor* will disclose each subject invention to the *Federal Agency* within two months after the inventor discloses it in writing to *contractor* personnel responsible for patent matters. The disclosure to the agency shall be in the form of a written report and shall identify the *contract* under which the invention was made and the inventor(s). It shall be sufficiently complete in technical detail to convey a clear understanding to the extent known at the time of the disclosure, of the nature, purpose, operation, and the physical, chemical, biological or electrical characteristics of the invention. The disclosure shall also identify any publication, on sale or public use of the invention and whether a manuscript describing the invention has been submitted for publication and, if so, whether it has been accepted for publication at the time of disclosure. In addition, after disclosure to the *agency*, the *Contractor* will promptly notify the *agency* of the acceptance of any manuscript describing the invention for publication or of any on sale or public use planned by the *contractor*.

(2) The *Contractor* will elect in writing whether or not to retain title to any such invention by notifying the *Federal agency* within two years of disclosure to the *Federal agency*. However, in any case where publication, on sale or public use has initiated the one year statutory period wherein valid patent protection can still be obtained in the United States, the period for election of title may be shortened by the *agency* to a date that is no more than 60 days prior to the end of the statutory period.

(3) The *contractor* will file its initial patent application on a subject invention to which it elects to retain title within one year after election of title or, if earlier, prior to the end of any statutory period wherein valid patent protection can be obtained in the United States after a publication, on sale, or public use. The *contractor* will file patent applications in

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additional countries or international patent offices within either ten months of the corresponding initial patent application or six months from the date permission is granted by the Commissioner of Patents and Trademarks to file foreign patent applications where such filing has been prohibited by a Secrecy Order.

(4) Requests for extension of the time for disclosure, election, and filing under subparagraphs (1), (2), and (3) may, at the discretion of the *agency*, be granted.

(d) Conditions When the Government May Obtain Title

The *contractor* will convey to the *Federal agency*, upon written request, title to any subject invention—

(1) If the *contractor* fails to disclose or elect title to the subject invention within the times specified in (c), above, or elects not to retain title; provided that the *agency* may only request title within 60 days after learning of the failure of the *contractor* to disclose or elect within the specified times.

(2) In those countries in which the *contractor* fails to file patent applications within the times specified in (c) above; provided, however, that if the *contractor* has filed a patent application in a country after the times specified in (c) above, but prior to its receipt of the written request of the *Federal agency*, the *contractor* shall continue to retain title in that country.

(3) In any country in which the *contractor* decides not to continue the prosecution of any application for, to pay the maintenance fees on, or defend in reexamination or opposition proceeding on, a patent on a subject invention.

(e) Minimum Rights to *Contractor* and Protection of the *Contractor* Right to File

(1) The *contractor* will retain a nonexclusive royalty-free license throughout the world in each subject invention to which the Government obtains title, except if the *contractor* fails to disclose the invention within the times specified in (c), above. The *contractor's* license extends to its domestic subsidiary and affiliates, if any, within the corporate structure of which the *contractor* is a party and includes the right to grant sublicenses of the same scope to the extent the *contractor* was legally obligated to do so at the time the *contract* was awarded. The license is transferable only with the approval of the *Federal agency* except when transferred to the successor of that party of the *contractor's* business to which the invention pertains.

(2) The *contractor's* domestic license may be revoked or modified by the *funding Federal agency* to the extent necessary to achieve expeditious practical application of the subject invention pursuant to an application for an exclusive license submitted in accordance with applicable provisions at 37 CFR part 404 and *agency* licensing regulations (if any). This license will not be revoked in that field of use or the geographical areas in which the *contractor* has achieved practical application and continues to make the benefits of the invention reasonably accessible to the public. The license in any foreign country may be revoked or modified at the discretion of the *funding Federal agency* to the extent the *contractor*, its licensees, or the domestic subsidiaries or affiliates have failed to achieve practical application in that foreign country.

APPENDIX A: The ensuing contract for this bid solicitation may be eligible for Federal Funding reimbursement. As such Appendix will applicable accordingly and shall be considered a part of the bid documents. All applicable certifications must be duly completed, signed and included in bid submission. Failure to do so will result in bid rejection. [Bid number 50-00132188], LABOR, MATERIALS AND EQUIPMENT NECESSARY TO PROVIDE, INSTALL AND CONNECT SECURITY SURVEILLANCE EQUIPMENT AT LAFITTE TOWN HALL FOR THE DEPARTMENT OF EMERGENCY MANAGEMENT

(3) Before revocation or modification of the license, the *funding Federal agency* will furnish the *contractor* a written notice of its intention to revoke or modify the license, and the *contractor* will be allowed thirty days (or such other time as may be authorized by the *funding Federal agency* for good cause shown by the *contractor*) after the notice to show cause why the license should not be revoked or modified. The *contractor* has the right to appeal, in accordance with applicable regulations in 37 CFR part 404 and *agency* regulations (if any) concerning the licensing of Government-owned inventions, any decision concerning the revocation or modification of the license.

(f) *Contractor Action to Protect the Government's Interest*

(1) The *contractor* agrees to execute or to have executed and promptly deliver to the *Federal agency* all instruments necessary to (i) establish or confirm the rights the Government has throughout the world in those subject inventions to which the *contractor* elects to retain title, and (ii) convey title to the *Federal agency* when requested under paragraph (d) above and to enable the government to obtain patent protection throughout the world in that subject invention.

(2) The *contractor* agrees to require, by written agreement, its employees, other than clerical and nontechnical employees, to disclose promptly in writing to personnel identified as responsible for the administration of patent matters and in a format suggested by the *contractor* each subject invention made under *contract* in order that the *contractor* can comply with the disclosure provisions of paragraph (c), above, and to execute all papers necessary to file patent applications on subject inventions and to establish the government's rights in the subject inventions. This disclosure format should require, as a minimum, the information required by (c)(1), above. The *contractor* shall instruct such employees through employee agreements or other suitable educational programs on the importance of reporting inventions in sufficient time to permit the filing of patent applications prior to U.S. or foreign statutory bars.

(3) The *contractor* will notify the *Federal agency* of any decisions not to continue the prosecution of a patent application, pay maintenance fees, or defend in a reexamination or opposition proceeding on a patent, in any country, not less than thirty days before the expiration of the response period required by the relevant patent office.

(4) The *contractor* agrees to include, within the specification of any United States patent applications and any patent issuing thereon covering a subject invention, the following statement, "This invention was made with government support under (identify the *contract*) awarded by (identify the Federal agency). The government has certain rights in the invention."

(g) *Subcontracts*

(1) The *contractor* will include this clause, suitably modified to identify the parties, in all subcontracts, regardless of tier, for experimental, developmental or research work. The subcontractor will retain all rights provided for the *contractor* in this clause, and the *contractor* will not, as part of the consideration for awarding the subcontract, obtain rights in the subcontractor's subject inventions.

APPENDIX A: The ensuing contract for this bid solicitation may be eligible for Federal Funding reimbursement. As such Appendix will applicable accordingly and shall be considered a part of the bid documents. All applicable certifications must be duly completed, signed and included in bid submission. Failure to do so will result in bid rejection. [Bid number 50-00132188], LABOR, MATERIALS AND EQUIPMENT NECESSARY TO PROVIDE, INSTALL AND CONNECT SECURITY SURVEILLANCE EQUIPMENT AT LAFITTE TOWN HALL FOR THE DEPARTMENT OF EMERGENCY MANAGEMENT

(2) In the case of subcontracts, at any tier, when the prime award with the Federal agency was a contract (but not a grant or cooperative agreement), the *agency*, subcontractor, and the contractor agree that the mutual obligations of the parties created by this clause constitute a contract between the subcontractor and the Federal agency with respect to the matters covered by the clause; provided, however, that nothing in this paragraph is intended to confer any jurisdiction under the Contract Disputes Act in connection with proceedings under paragraph (j) of this clause.

(h) Reporting on Utilization of Subject Inventions

The *Contractor* agrees to submit on request periodic reports no more frequently than annually on the utilization of a subject invention or on efforts at obtaining such utilization that are being made by the *contractor* or its licensees or assignees. Such reports shall include information regarding the status of development, date of first commercial sale or use, gross royalties received by the contractor, and such other data and information as the *agency* may reasonably specify. The *contractor* also agrees to provide additional reports as may be requested by the *agency* in connection with any march-in proceeding undertaken by the *agency* in accordance with paragraph (j) of this clause. As required by 35 U.S.C. 202(c)(5), the *agency* agrees it will not disclose such information to persons outside the government without permission of the *contractor*.

(i) Preference for United States Industry

Notwithstanding any other provision of this clause, the *contractor* agrees that neither it nor any assignee will grant to any person the exclusive right to use or sell any subject inventions in the United States unless such person agrees that any products embodying the subject invention or produced through the use of the subject invention will be manufactured substantially in the United States. However, in individual cases, the requirement for such an agreement may be waived by the *Federal agency* upon a showing by the *contractor* or its assignee that reasonable but unsuccessful efforts have been made to grant licenses on similar terms to potential licensees that would be likely to manufacture substantially in the United States or that under the circumstances domestic manufacture is not commercially feasible.

(j) March-in Rights

The *contractor* agrees that with respect to any subject invention in which it has acquired title, the *Federal agency* has the right in accordance with the procedures in 37 CFR 401.6 and any supplemental regulations of the *agency* to require the *contractor*, an assignee or exclusive licensee of a subject invention to grant a nonexclusive, partially exclusive, or exclusive license in any field of use to a responsible applicant or applicants, upon terms that are reasonable under the circumstances, and if the *contractor*, assignee, or exclusive licensee refuses such a request the *Federal agency* has the right to grant such a license itself if the *Federal agency* determines that:

(1) Such action is necessary because the *contractor* or assignee has not taken, or is not expected to take within a reasonable time, effective steps to achieve practical application of the subject invention in such field of use.

APPENDIX A: The ensuing contract for this bid solicitation may be eligible for Federal Funding reimbursement. As such Appendix will applicable accordingly and shall be considered a part of the bid documents. All applicable certifications must be duly completed, signed and included in bid submission. Failure to do so will result in bid rejection. [Bid number 50-00132188], LABOR, MATERIALS AND EQUIPMENT NECESSARY TO PROVIDE, INSTALL AND CONNECT SECURITY SURVEILLANCE EQUIPMENT AT LAFITTE TOWN HALL FOR THE DEPARTMENT OF EMERGENCY MANAGEMENT

- (2) Such action is necessary to alleviate health or safety needs which are not reasonably satisfied by the *contractor*, assignee or their licensees;
- (3) Such action is necessary to meet requirements for public use specified by Federal regulations and such requirements are not reasonably satisfied by the *contractor*, assignee or licensees; or
- (4) Such action is necessary because the agreement required by paragraph (i) of this clause has not been obtained or waived or because a licensee of the exclusive right to use or sell any subject invention in the United States is in breach of such agreement.

(k) Special Provisions for *Contracts* with Nonprofit Organizations

If the *contractor* is a nonprofit organization, it agrees that:

- (1) Rights to a subject invention in the United States may not be assigned without the approval of the *Federal agency*, except where such assignment is made to an organization which has as one of its primary functions the management of inventions, provided that such assignee will be subject to the same provisions as the *contractor*;
- (2) The *contractor* will share royalties collected on a subject invention with the inventor, including Federal employee co-inventors (when the agency deems it appropriate) when the subject invention is assigned in accordance with 35 U.S.C. 202(e) and 37 CFR 401.10;
- (3) The balance of any royalties or income earned by the *contractor* with respect to subject inventions, after payment of expenses (including payments to inventors) incidental to the administration of subject inventions, will be utilized for the support of scientific research or education; and
- (4) It will make efforts that are reasonable under the circumstances to attract licensees of subject invention that are small business firms and that it will give a preference to a small business firm when licensing a subject invention if the *contractor* determines that the small business firm has a plan or proposal for marketing the invention which, if executed, is equally as likely to bring the invention to practical application as any plans or proposals from applicants that are not small business firms; provided, that the *contractor* is also satisfied that the small business firm has the capability and resources to carry out its plan or proposal. The decision whether to give a preference in any specific case will be at the discretion of the *contractor*. However, the *contractor* agrees that the Secretary may review the *contractor's* licensing program and decisions regarding small business applicants, and the *contractor* will negotiate changes to its licensing policies, procedures, or practices with the Secretary when the Secretary's review discloses that the *contractor* could take reasonable steps to implement more effectively the requirements of this paragraph (k)(4).

(l) Communication

Any communications to be given hereunder by either party to the other shall be deemed to be duly given if set forth in writing and personally delivered or sent by mail, registered or certified, postage prepaid with return receipt requested, as follows:

Council Chair

APPENDIX A: The ensuing contract for this bid solicitation may be eligible for Federal Funding reimbursement. As such Appendix will applicable accordingly and shall be considered a part of the bid documents. All applicable certifications must be duly completed, signed and included in bid submission. Failure to do so will result in bid rejection. [Bid number 50-00132188], LABOR, MATERIALS AND EQUIPMENT NECESSARY TO PROVIDE, INSTALL AND CONNECT SECURITY SURVEILLANCE EQUIPMENT AT LAFITTE TOWN HALL FOR THE DEPARTMENT OF EMERGENCY MANAGEMENT

Jefferson Parish Council
200 Derbigny Street, Suite 6200
Gretna, Louisiana 70053

Written notices hereunder delivered personally shall be deemed communicated as of actual receipt; mailed notices shall be deemed communicated five (5) days after deposit in the mail, post prepaid, certified, in accordance with this Paragraph.

CLEAN AIR ACT AND FEDERAL WATER POLLUTION CONTROL ACT
(for all awarded contracts with a value greater than \$150,000.00)

The Contractor and all subcontractors shall comply with all applicable standards, orders or regulations issued pursuant to the Clean Air Act, as amended, 42 USC 7401 et seq., and the Federal Water Pollution Control Act, as amended, 33 USC 1251 et seq.

DEBARMENT AND SUSPENSION

(Contractor must complete certification and submit with bid submission. Failure to do so will result in bid rejection.)

The Contractor represents and warrants that it and its subcontractors are not listed on the government wide exclusions in the System for Award Management (SAM), in accordance with the OMB guidelines at 2 CFR 180 that implement Executive Orders 12549 (3 CFR part 1986 Comp., p. 189) and 12689 (3 CFR part 1989 Comp., p. 235), “Debarment and Suspension.”

BYRD ANTI-LOBBYING AMENDMENT

(for all awarded contracts with a value greater than \$100,000.00 and contractor must complete certification and submit with bid submission. Failure to do so will result in bid rejection.)

The Contractor certifies, to the best of his or her knowledge and belief that:

1. No federally appropriated funds have been paid or will be paid, by or on behalf of the contractor, to any person for influencing or attempting to influence an officer or employee of any agency, a member of Congress, an officer or employee of Congress, or an employee of a member of Congress in connection with the awarding of any federal contract, the making of any federal grant, the making of any federal loan, the entering into of any cooperative agreement, and the extension, continuation, renewal, amendment, or modification of any federal contract, grant, loan, or cooperative agreement.
2. If any funds other than federally appropriated funds have been paid or will be paid to any person for influencing or attempting to influence an officer or employee of any agency, a member of Congress, an officer or employee of Congress, or an employee of a member

APPENDIX A: The ensuing contract for this bid solicitation may be eligible for Federal Funding reimbursement. As such Appendix will applicable accordingly and shall be considered a part of the bid documents. All applicable certifications must be duly completed, signed and included in bid submission. Failure to do so will result in bid rejection. [Bid number 50-00132188], LABOR, MATERIALS AND EQUIPMENT NECESSARY TO PROVIDE, INSTALL AND CONNECT SECURITY SURVEILLANCE EQUIPMENT AT LAFITTE TOWN HALL FOR THE DEPARTMENT OF EMERGENCY MANAGEMENT

of Congress in connection with this federal contract, grant, loan, or cooperative agreement, the contractor shall complete and submit Standard Form-LLL, "Disclosure Form to Report Lobbying," in accordance with its instructions.

3. Contractor will include language of this certification in all subcontract awards at any tier and require that all recipients of subcontract awards in excess of \$150,000.00 shall certify and disclose accordingly.

PROCUREMENT OF RECOVERED MATERIALS

(for all purchase price of items exceeding \$10,000.00 or the value of the quantity acquired during the preceding fiscal year exceeded \$10,000.00)

(1) In the performance of this contract, the Contractor shall make maximum use of products containing recovered materials that are EPA designated items unless the product cannot be acquired:

(i) Competitively within a timeframe providing for compliance with the contract performance schedule;

(ii) Meeting contract performance requirements; or

(iii) At a reasonable price.

(2) Information about this requirement is available at EPA's Comprehensive Procurement Guidelines web site, <http://www.epa.gov/cpg/>. The list of EPA-designate items is available at <http://www.epa.gov/cpg/products.htm>.



CERTIFICATE OF LIABILITY INSURANCE

DATE (MM/DD/YYYY)
9/16/2020

THIS CERTIFICATE IS ISSUED AS A MATTER OF INFORMATION ONLY AND CONFERS NO RIGHTS UPON THE CERTIFICATE HOLDER. THIS CERTIFICATE DOES NOT AFFIRMATIVELY OR NEGATIVELY AMEND, EXTEND OR ALTER THE COVERAGE AFFORDED BY THE POLICIES BELOW. THIS CERTIFICATE OF INSURANCE DOES NOT CONSTITUTE A CONTRACT BETWEEN THE ISSUING INSURER(S), AUTHORIZED REPRESENTATIVE OR PRODUCER, AND THE CERTIFICATE HOLDER.

IMPORTANT: If the certificate holder is an **ADDITIONAL INSURED**, the policy(ies) must have **ADDITIONAL INSURED** provisions or be endorsed. If **SUBROGATION IS WAIVED**, subject to the terms and conditions of the policy, certain policies may require an endorsement. A statement on this certificate does not confer rights to the certificate holder in lieu of such endorsement(s).

PRODUCER Marsh USA Inc. 540 West Madison Street Suite 1200 Chicago, IL 60661	CONTACT NAME: Attn: Cert Center PHONE: (A/C, No, Ext): (866) 966-4664 FAX (A/C, No): (212) 948-5167 E-MAIL ADDRESS: JCI.CertRequest@marsh.com																					
	<table border="1"> <thead> <tr> <th colspan="2">INSURER(S) AFFORDING COVERAGE</th> <th>NAIC #</th> </tr> </thead> <tbody> <tr> <td>INSURER A:</td> <td>OLD REPUBLIC INSURANCE CO</td> <td>24147</td> </tr> <tr> <td>INSURER B:</td> <td></td> <td></td> </tr> <tr> <td>INSURER C:</td> <td></td> <td></td> </tr> <tr> <td>INSURER D:</td> <td></td> <td></td> </tr> <tr> <td>INSURER E:</td> <td></td> <td></td> </tr> <tr> <td>INSURER F:</td> <td></td> <td></td> </tr> </tbody> </table>		INSURER(S) AFFORDING COVERAGE		NAIC #	INSURER A:	OLD REPUBLIC INSURANCE CO	24147	INSURER B:			INSURER C:			INSURER D:			INSURER E:			INSURER F:	
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INSURED Johnson Controls, Inc. Tyco International Holding S.a.r.l. SimplexGrinnell LP (see attached Acord 101) 5757 North Green Bay Avenue Milwaukee, WI 53209																						

COVERAGES CERTIFICATE NUMBER: REVISION NUMBER:

THIS IS TO CERTIFY THAT THE POLICIES OF INSURANCE LISTED BELOW HAVE BEEN ISSUED TO THE INSURED NAMED ABOVE FOR THE POLICY PERIOD INDICATED. NOTWITHSTANDING ANY REQUIREMENT, TERM OR CONDITION OF ANY CONTRACT OR OTHER DOCUMENT WITH RESPECT TO WHICH THIS CERTIFICATE MAY BE ISSUED OR MAY PERTAIN, THE INSURANCE AFFORDED BY THE POLICIES DESCRIBED HEREIN IS SUBJECT TO ALL THE TERMS, EXCLUSIONS AND CONDITIONS OF SUCH POLICIES. LIMITS SHOWN MAY HAVE BEEN REDUCED BY PAID CLAIMS.

INSR LTR	TYPE OF INSURANCE	ADDL INSR	SUBR WVD	POLICY NUMBER	POLICY EFF (MM/DD/YYYY)	POLICY EXP (MM/DD/YYYY)	LIMITS
A	<input checked="" type="checkbox"/> COMMERCIAL GENERAL LIABILITY <input type="checkbox"/> CLAIMS MADE <input checked="" type="checkbox"/> OCCUR <input checked="" type="checkbox"/> CONTRACTUAL LIABILITY <input checked="" type="checkbox"/> XCU Included GEN'L AGGREGATE LIMIT APPLIES PER: <input checked="" type="checkbox"/> POLICY <input type="checkbox"/> PROJECT <input type="checkbox"/> LOC <input type="checkbox"/> OTHER			MWZY 313947 20	10/01/2020	10/01/2021	EACH OCCURENCE \$3,000,000 DAMAGE TO RENTED PREMISES (Ea occurrence) \$3,000,000 MED EXP (Any one person) \$50,000 PERSONAL & ADV INJURY \$3,000,000 GENERAL AGGREGATE \$3,000,000 PRODUCTS - COMP/OP AGG INC IN GEN AGG
A	<input checked="" type="checkbox"/> AUTOMOBILE LIABILITY <input checked="" type="checkbox"/> ANY AUTO <input type="checkbox"/> OWNED AUTOS ONLY <input type="checkbox"/> SCHEDULED AUTOS ONLY <input type="checkbox"/> HIRED AUTOS ONLY <input type="checkbox"/> NON-OWNED AUTOS ONLY			MWTB 313946-20 (Excludes NH) MWTB 313949-20 (Primary NH \$250k) MWZX 313950-20 (Excess NH \$2.25mm) Excess NH Auto is follow form to Primary NH Auto	10/01/2020	10/01/2021	COMBINED SINGLE LIMIT (Ea Accident) \$2,500,000 BODILY INJURY (Per person) BODILY INJURY (Per accident) PROPERTY DAMAGE (Per accident)
	<input type="checkbox"/> UMBRELLA LIAB <input type="checkbox"/> OCCUR <input type="checkbox"/> EXCESS LIAB <input type="checkbox"/> CLAIMS-MADE <input type="checkbox"/> DED <input type="checkbox"/> RETENTION \$						EACH OCCURENCE AGGREGATE
A	<input checked="" type="checkbox"/> WORKERS COMPENSATION AND EMPLOYERS' LIABILITY ANY PROPRIETOR/PARTNER/EXECUTIVE OFFICER/MEMBER EXCLUDED? (Mandatory in NH) If yes, describe under DESCRIPTION OF OPERATIONS below	Y/N	N/A	MWC 313943 20 (AOS - See Pg 2) MWXS 313944 20 (OH & WA)	10/01/2020	10/01/2021	<input checked="" type="checkbox"/> PER STATUTE <input type="checkbox"/> OTHER E.L. EACH ACCIDENT \$1,000,000 E.L. DISEASE - EA EMPLOYEE \$1,000,000 E.L. DISEASE - POLICY LIMIT \$1,000,000

DESCRIPTION OF OPERATIONS / LOCATIONS / VEHICLES (Attach ACORD 101, Additional Remarks Schedule, if more space is required)

JCI / Tyco Contract Number: CBS 0N770131
JCI / Tyco Project Name: JP Lafitte CCTV Project
Customer PO Number: 5000132188

CERTIFICATE HOLDER

Jefferson Parish Government
Jefferson Parish Purchasing Department
200 Derbigny Street, Suite 4400 Gretna, LA 70053

CANCELLATION

SHOULD ANY OF THE ABOVE DESCRIBED POLICIES BE CANCELLED BEFORE THE EXPIRATION DATE THEREOF, NOTICE WILL BE DELIVERED IN ACCORDANCE WITH THE POLICY PROVISIONS.

AUTHORIZED REPRESENTATIVE
of Marsh USA Inc.
by Darniece Beck

**ADDITIONAL REMARKS SCHEDULE**

AGENCY Marsh USA Inc.		NAMED INSURED Johnson Controls, Inc. Tyco International Holding S.a.r.l. SimplexGrinnell LP 5757 North Green Bay Avenue Milwaukee, WI 53209	
POLICY NUMBER		EFFECTIVE DATE: 10/01/2019	
CARRIER	NAIC CODE		

ADDITIONAL REMARKS

THIS ADDITIONAL REMARKS FORM IS A SCHEDULE TO ACORD FORM,
FORM NUMBER: ACORD 25 (2016/03) FORM TITLE: CERTIFICATE OF LIABILITY INSURANCE

WORKERS COMPENSATION:

Workers Compensation "AOS" Policy includes coverage for employees from the following States WHILE WORKING IN ANY STATE: AK, AL, AR, AZ, CA, CO, CT, DC, DE, FL, GA, HI, IA, ID, IL, IN, KS, KY, LA, MA, MD, ME, MI, MN, MO, MS, MT, NC, NE, NH, NJ, NM, NV, NY, OK, OR, PA, RI, SC, SD, TN, TX, UT, VA, VT, WI, & WV.

PRIMARY COVERAGE:

The General Liability and Automobile Liability policies are primary and not excess of or contributing with other insurance or self-insurance, where required by written lease or written contract. For General Liability, this applies to both ongoing and completed operations.

WAIVER OF SUBROGATION:

The General Liability, Automobile Liability, Workers' Compensation and Employers Liability policies include a Waiver of Subrogation in favor of the certholder and any other person or organization, BUT ONLY to the extent required by written contract.

ADDITIONAL INSURED – AUTOMOBILE LIABILITY:

The Automobile Liability policy, if required by written contract, includes coverage for Additional Insureds as required by such written contract.

ADDITIONAL INSURED – GENERAL LIABILITY:

For General Liability, if required by written contract, the following are included as additional insureds, as required pursuant to a written contract with a named insured, per attached Policy Endorsements A2 and A2A: THE CERTIFICATE HOLDER LISTED ON THIS CERTIFICATE OF LIABILITY INSURANCE, AND EACH OTHER PERSON OR ORGANIZATION REQUIRED TO BE INCLUDED AS AN ADDITIONAL INSURED PURSUANT TO A WRITTEN CONTRACT WITH THE NAMED INSURED.

SCHEDULE FOR POLICY ENDORSEMENTS A2 AND A2A

Name of Additional Insured Person(s) or Organization(s):

If required by contract, the person or organization listed on the certificate of insurance as additional insured, and each other person or organization required to be included as an additional insured pursuant to a contract with a named insured.

Location(s) of Covered Operations:

As required by contract.

POLICY ENDORSEMENT A2

ADDITIONAL INSURED – OWNERS, LESSEES OR CONTRACTORS – NAMED INSURED'S ACTS OR OMISSIONS ONLY

A. Section II – Who Is An Insured is amended to include as an additional insured the person(s) or organization(s) shown in the Schedule, but only with respect to liability for "bodily injury", "property damage" or "personal and advertising injury" caused solely by:

1. Your acts or omissions; or
 2. The acts or omissions of those acting on your behalf;
- in the performance of your ongoing operations for the additional insured(s) at the location(s) designated above.

B. With respect to the insurance afforded to these additional insureds, the following additional exclusions apply:

The insurance does not apply to "bodily injury" or "property damage" occurring after:

1. All work, including materials, parts or equipment furnished in connection with such work, on the project (other than service, maintenance or repairs) to be performed by or on behalf of the additional insured(s) at the location of the covered operations has been completed; or
2. That portion of "your work" out of which the injury or damage arises has been put to its intended use by any person or organization other than another contractor or subcontractor engaged in performing operations for a principal as a part of the same project.

POLICY ENDORSEMENT A2A

ADDITIONAL INSURED – OWNERS, LESSEES OR CONTRACTORS – COMPLETED OPERATIONS – NAMED INSURED'S ACTS OR OMISSIONS ONLY

Section II – Who Is An Insured is amended to include as an additional insured the person(s) or organization(s) shown in the Schedule, but only with respect to liability for "bodily injury" or "property damage" caused solely by "your work" at the location designated and described in the Schedule of this endorsement performed for that additional insured and included in the "products-completed operations hazard".

ONGOING OPERATIONS AND COMPLETED OPERATIONS INSURANCE

The General Liability Insurance includes insurance for ongoing operations and completed operations.

LIMIT OF LIABILITY:

The Liability Limit that applies is the amount indicated on the face of this Certificate of Liability Insurance, or the minimum Liability limit that is required by the written contract, whichever is less. If there is no contract then the Liability Limit is limited to \$1,000,000.

NOTICE OF CANCELLATION TO CERTIFICATE HOLDERS:

Should any of the above described policies be cancelled, other than for non-payment, before the expiration date thereof, 30 days advice of cancellation will be delivered to certificate holders in accordance with the policy endorsements.



AGENCY CUSTOMER ID: _____

LOC#: _____

ADDITIONAL REMARKS SCHEDULEPage 3 of 3

AGENCY Marsh USA Inc.		NAMED INSURED Johnson Controls, Inc. Tyco International Holding S.a.r.l. SimplexGrinnell LP 5757 North Green Bay Avenue Milwaukee, WI 53209	
POLICY NUMBER		EFFECTIVE DATE: 10/01/2018	
CARRIER	NAIC CODE		

ADDITIONAL REMARKS

THIS ADDITIONAL REMARKS FORM IS A SCHEDULE TO ACORD FORM,
FORM NUMBER: ACORD 25 (2016/03) FORM TITLE: CERTIFICATE OF LIABILITY INSURANCE

NAMED INSURED:

Insureds include: Air Distribution Technologies IP, LLC; Air System Components, Inc.; Carter Brothers, LLC; CEM Access Systems, Inc.; Central CPVC Corporation; Central Sprinkler LLC; Chemguard, Inc.; Connect 24 Wireless Communications Inc.; Digital Security Controls, Inc.; Eastern Sheet Metal, Inc.; Elpas, Inc.; Exacq Technologies, Inc.; FBN Transportation, Inc.; Federal Energy Infrastructure Solutions, LLC; Grinnell Fire Protection Solutions LLC; Grinnell LLC; Hart & Cooley Trucking Company; Hart & Cooley, Inc.; Haz-Tank Fabricators, Inc.; IMECO LLC; Integrated Systems and Power, Inc.; Johnson Controls (Suisse) SA; Johnson Controls Air Conditioning and Refrigeration, Inc.; Johnson Controls Building Automation Systems, LLC; Johnson Controls Digital Solutions LLC; Johnson Controls Engineering, LLC; Johnson Controls Federal Systems, Inc.; Johnson Controls Fire Protection LP; Johnson Controls Foundation, Inc.; Johnson Controls Government Systems, LLC; Johnson Controls, Inc.; Johnson Controls Navy Systems, LLC; Johnson Controls PI Project Site Operations LLC; Johnson Controls Security Solutions LLC; Johnson Controls-Hitchi Air Conditioning North America LLC; Koch Filter Corporation; Master Protection, LP dba FireMaster; Qolsys, Inc.; Retail Expert, Inc.; Ruskin Company; Ruskin Rooftop Systems, Inc.; Ruskin Service Company; Selkirk Corporation; Senelco Iberia, Inc.; Sensormatic Asia/Pacific, Inc.; Sensormatic Electronics (Puerto Rico) LLC; Sensormatic Electronics, LLC; ShopperTrak International Investment LLC; ShopperTrak RCT Corporation; Shurjoint America, Inc.; SimplexGrinnell LP; Tyco Fire & Security LLC; Tyco Fire Products LP; Tyco Integrated Security LLC; Tyco International Holding S.a.r.l.; Tyco International Management Company, LLC; Visonic Inc.; WillFire HC, LLC; York International (SA), Inc.; York International Corporation

VideoEdge® Network Video Recorder

Features That Make a Difference:

- Appliance server for low total cost-of-ownership plus highest level of security and performance
- Transform server hardware into a VideoEdge® NVR within minutes
- Supports automatic bridging of multiple networks
- Embedded Linux® operating system eliminates additional cost of server operating system and minimizes patch management
- Efficient design supports largest number of video channels per NVR
- Chain-of-custody feature provides indisputable video evidence
- Expandable storage supports multi-terabytes per NVR
- Integrates with a variety of applications to provide a complete command and control software solution
- Open platform supports many third party¹ devices and hardware
- Remote management from many standard web browsers or client software
- Scalable architecture supports on-demand upgrades for additional video and storage devices
- Optional Windows®-based management suite provides total end-to-end solution



American Dynamics® VideoEdge Network Video Recorder (NVR) is the industry's first turn-key solution that lets you turn any standard commercial off-the-shelf (COTS) computer¹ into an appliance server. Or, for a complete solution, order our bundled system.

The bootable installation disc automatically installs an embedded Linux operating system, web server, network security and storage applications to get you up and running within a couple of minutes.

Each VideoEdge NVR can support as many as 128 cameras² and can be configured with megapixel and standard IP cameras from a variety of manufacturers¹. Using American Dynamics VideoEdge IP Encoder you can utilize analog cameras.

The open system architecture of VideoEdge NVR allows you to start with any number of cameras and scale up as needed by uploading a newer camera license. There is no need to register each individual camera as required by many other similar products on the market today.

(1) Refer to www.americandynamics.net for the latest list of supported devices, hardware, codecs, browsers, and other related information including recommended system requirements for hardware and storage. All proprietary hardware components (e.g. RAID controllers) or devices (e.g. new IP cameras) require special drivers or unique camera handlers.

(2) VideoEdge NVR software can be licensed to support up to 128 cameras on a single NVR. The camera license is based on a per video channel input; therefore, any multi-channel device, such as 4-lens megapixel cameras and 4-channel encoders, will each occupy 4 camera slots. The hardware and storage configuration of the NVR will impact its performance and functionality.

features

Innovative Technologies

VideoEdge NVR includes, at no extra charge, many of the features and functions that are generally additional costs in other comparable products in the industry.

The single bootable installation disc lets you transform standard commercial off-the-shelf hardware into a VideoEdge NVR within minutes. The automatic installer includes everything you need which eliminates the initial and recurring costs associated with the operating system and other software while minimizing the time required to configure the system.

VideoEdge NVR has a true server-client architecture designed to manage video very efficiently and achieve superior performance. The processor, memory, and disk space overhead typically associated with commercially available operating systems do not apply to VideoEdge NVR.

VideoEdge NVR is extremely secure because it is a read-only device and restricts any file-level access. This secure environment prevents the installation of viruses, trojans, spyware, and other malicious programs. Other solutions running on standard operating systems (e.g. Windows) would generally rely on the latest updates from third party security software to detect these types of programs after they have already been installed.

VideoEdge systems provide unique built-in virtualization so that any number of NVRs and cameras from one or more sites looks like one logical NVR. This enables you to better manage a large number of devices and/or locations.

VideoEdge NVR also provides a mechanism for auto-discovery of supported devices to help reduce the time required to add these devices to the system.

As the number of cameras increase at a facility, resolution and frame rate performance can become a challenge. VideoEdge NVR features many unique algorithms to achieve maximum read and write performance. Innovative techniques enable VideoEdge NVR to achieve the highest possible performance while supporting more devices and storage for the lowest total cost-of-ownership.

Scalability

VideoEdge NVRs are completely scalable to provide maximum return on investment (ROI). As the number of cameras required grows, you can purchase an upgraded NVR camera license³. Since you are not required to register the MAC address of each and every camera/encoder, you can easily interchange any device without additional cost.

When storage requirements increase due to setting changes, such as with the addition of megapixel camera or an increased number of cameras, the NVR is designed to dynamically support additional storage (internal, external, IP SAN).

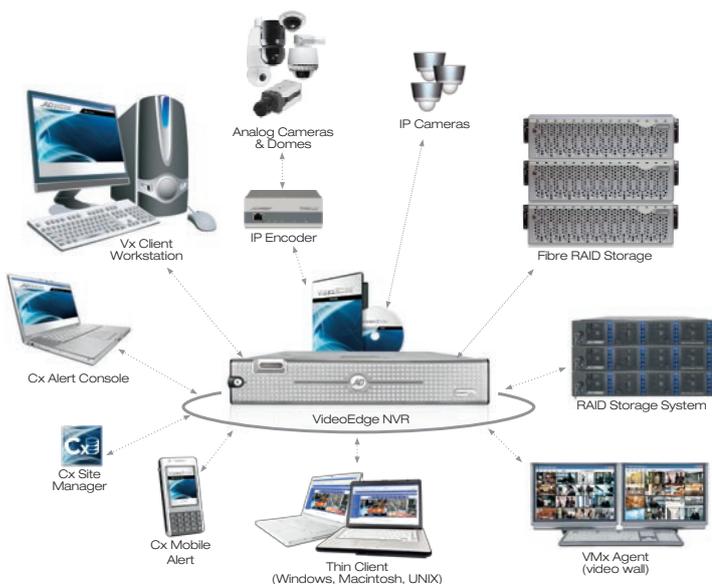
Hardware Independence

As a hardware independent solution⁴, VideoEdge NVR lets you use standard, commercial off-the-shelf hardware, such as single and multi-core processors and larger capacity hard drives from a variety of vendors. This gives you the flexibility to design a solution based on your individual business needs. However, for those looking for a all-inclusive source for product and support, American Dynamics offers hardware solutions (certified servers, storage, and cameras/encoders) to complement the entire VideoEdge product offering.

Open Solution

With a well-documented software development kit (SDK) and 100% API-driven NVR, VideoEdge easily integrates with other business-critical systems such as Software House[®] and Kantech[™] access control systems and other third party applications⁴.

The built-in web server enables you to configure almost any client PC, including Windows, Macintosh, or UNIX, and enables the use of most standard browsers for logging into the NVR to manage the system. With appropriate drivers, you can also view live/recorded video.



(3) VideoEdge NVR software can be licensed to support up to 128 cameras on a single NVR. The camera license is based on a per video channel input; therefore, any multi-channel device, such as 4-lens megapixel cameras and 4-channel encoders, will each occupy 4 camera slots. The hardware and storage configuration of the NVR will impact its performance and functionality.

(4) Refer to www.americandynamics.net for the latest list of supported devices, hardware, codecs, browsers, and other related information including recommended system requirements for hardware and storage. All proprietary hardware components (e.g. RAID controllers) or devices (e.g. new IP cameras) require special drivers or unique camera handlers.

Security

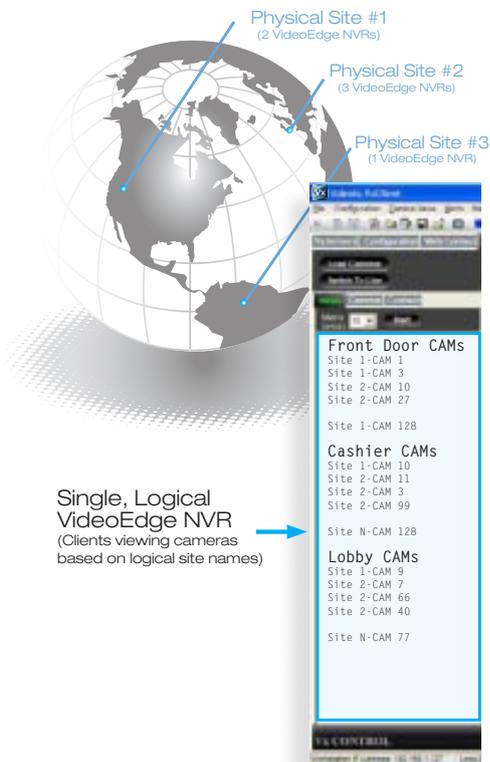
Since VideoEdge NVR includes an embedded Linux operating system and functions as a web-based appliance, it provides the highest level of security. There is no keyboard access at the server, no file-level access, and no back-door access. The NVR operates in read-only mode and utilizes a minimum number of ports for access and communication. Seven different camera level security permissions can be applied to individual devices for tighter control over user access. An administrator audit trail is also automatically generated to track system changes that affect the functionality of the NVR.

Chain-of-Custody

There are many software tools available today that enable users to manipulate nearly any type of digital file. These tools can be used to enhance the original file to provide a sharper image but can also be used to manipulate the original file. To ensure that no video has been altered, VideoEdge NVR provides a clear chain-of-custody.

Distributed Architecture

VideoEdge NVR provides automatic bridging of multiple subnets to enable you to set up separate networks (physical switches or logical VLANs) for clients, cameras, and/or IP SAN storage to achieve the highest levels of performance and security. VideoEdge NVR also supports large capacity SCSI and Fibre RAID devices⁵.



VideoEdge NVR distributed architecture addresses the diverse requirements of large and small customer applications. Each NVR is completely self-contained and uses its own resources to manage groups of users and any number of video and storage devices.

Customers can manage remote sites by connecting to VideoEdge NVRs via an IP address or domain name using a web browser or with the American Dynamics Vx Client, part of the VideoEdge Management Suite. Since physical access to the NVR is not required, firmware can also be updated remotely⁶.

High-Availability and Failover

By design, VideoEdge NVR includes both high-availability and failover. Each NVR can be configured to support up to two levels of backup storage for each designated storage section. In the event that the primary storage fails, VideoEdge NVR automatically switches to backup storage to ensure that recording continues. Additional hard drives and/or logical RAID volumes need to be available to configure backup storage.

You have the option to designate one or more VideoEdge NVRs as the failover NVR which can be configured to suit the needs of the site: 1-to-1, many-to-1 (N+1) or many-to-many (N+M). If any of the monitored VideoEdge NVRs go offline, the failover NVR will immediately begin to manage and support all of its video devices, users, and security permissions to provide continued recording and access to those devices.

VideoEdge NVRs are designed to easily backup/restore the entire configuration database and can be rebuilt from scratch (via new unformatted hard drive) and completely recovered (NVR database for cameras, network, security, storage, users, etc.) for full operation within minutes. This is ideal in disaster recovery situations as well as for configuring a larger number of VideoEdge NVRs for mass deployment.

Lowest Cost-of-Ownership

As the number of physical NVR requirements increases (e.g. multiple buildings and sites), you are protected from the hidden incremental costs associated with NVR server licenses, operating system, security software, and IT management resources for each and every server. Therefore, when the scope of any security project increases, VideoEdge NVR provides a dramatic cost savings for you and your customers.

(5) Refer to www.americandynamics.net for the latest list of supported devices, hardware, codecs, browsers, and other related information including recommended system requirements for hardware and storage. All proprietary hardware components (e.g. RAID controllers) or devices (e.g. new IP cameras) require special drivers or unique camera handlers.

(6) A fast and reliable network connection is required between the client and VideoEdge NVR to ensure a successful firmware reflash.

Model Number Configuration and Specifications for VideoEdge NVR (software only)

	BRAND	FAMILY	PLATFORM	PRODUCT	CAMERA LICENSE
EXAMPLE	AD American Dynamics	N Network Video Management Systems	S Software	NVR Network Video Recorder	CLx -CL1 = Price based on quantity of 1 to 64 total camera slots -CL2 = Price based on quantity of 65 to 249 total camera slots -CL3 = Price based on quantity of 250+ total camera slots

Processor 3.2GHz Dual-Core Intel® Xeon CPU
 Memory 4 GB DDR2 RAM
 Optical Drive Bootable CD-ROM drive
 Hard Disk Drive Bootable 80 GB dedicated hard drive
 (raw, no operating system required)
 Network Card Two Gigabit 1000Mbit NICs

Graphics Card Onboard
 Monitor 800 x 600 resolution, 16-bit color
 Keyboard Standard
 Video Storage Additional internal hard drives
 Host Bus Adapter Optional for any extended video storage⁷
 (SCSI, Fibre)

VideoEdge NVR software orders are based on total number of camera slots (video channels) that are required for the project as there is no NVR server license. You must specify total number of NVRs and camera slots per NVR when placing an order.

NOTE: Maximum camera slots per NVR is 128 and some devices will occupy multiple camera slots (e.g. 4-lens megapixel IP cameras and multi-channel IP encoders)

Model Number Configuration and Specifications for VideoEdge NVR (bundled server solution)

	BRAND	FAMILY	CHANNELS	PLATFORM	TOTAL STORAGE (TB AVAILABLE)
EXAMPLE	AD American Dynamics	N Network Video Management System	XXX 016 024 032	S Server	XXXX 0150 0300 0375

Computer Dell® PE2950
 Processor Quad Core Intel Xeon CPU
 Memory 4 GB DDR2 RAM

Network Card 2x Gigabit Ethernet NICs
 Keyboard USB
 Host Bus Adapter PERC5 hard drive controller

NOTES:

- VideoEdge NVR bundled servers are preconfigured and licensed
- Three-year warranty on hardware; 90-day on software
- Additional camera licenses (ADNSNVR-UPG-xxx) and extended storage (Fibre kit: ADFRSHBAD2 & Fibre RAID Storage: ADFRSSxxx/ADFESSxxx are sold separately
- Processor type and speed (single-dual-quad core), amount of memory, network speed, and storage type will impact the overall performance and functionality (total number of video channels, resolutions, frame rates, recording modes, etc.)
- CD drive (ATAPI, SATA, SCSI, USB) is used for booting and installing VideoEdge NVR software onto an internal hard drive (ATAPI, SATA, SCSI)
- Network cards provide VideoEdge NVR connectivity for client, camera and/or IP SAN network segments

- Graphics card, monitor, and keyboard are used for NVR installation process and to display status information (e.g. NVR IP address)
- Video storage requires additional hard drives and/or supported RAID storage (e.g. Dell Perc/5, HP SmartArray 6i/642/6402/6404)
- Host bus adapter (e.g. Adaptec SCSI, Qlogic Fibre) provides connectivity to extended video storage (e.g. SCSI or Fibre RAID)
- Lower system configurations (e.g. CPU, RAM, NIC) will generally work to support lower number of cameras and/or performance
- Use with standard IT rack

Model Number Configuration for Fibre RAID Storage System

	BRAND	FAMILY	TYPE	CONFIGURATION	TOTAL STORAGE (RAW)
EXAMPLE Fibre RAID Storage system (add up to 3 Fibre Expansion modules)	AD American Dynamics	F Fibre	RS RAID Storage	S Single Controller	XXXX 0375 = 3.75 TB 1125 = 11.25 TB 0750 = 7.50 TB 1500 = 15.00 TB
EXAMPLE Fibre RAID Expansion Storage module	AD	F	ES Expansion Storage	S	XXXX 0300 = 3.00 TB 0900 = 9.00 TB 0600 = 6.00 TB 1200 = 12.00 TB

NOTES:

- Purchase the Fibre Kit (M/N: ADFRSHBAD2) to connect up to two, single Fibre RAID Storage systems (with or without Fibre RAID Storage Expansion modules)
- RAID configurations for Fibre RAID Storage systems are available for all models and are created through its web interface

- RAID configurations for NVR Fibre RAID Expansion Storage modules are available for all models, are created through the Fibre RAID Storage web interface, and up to three expansion units can be daisy-chained using SAS cables

VideoEdge Management Suite Model Numbers

ADNSVXC-STN . . . American Dynamics Vx Client-standard mode
 (remote management software)
 ADNSVXC-VWC . . . American Dynamics Vx Client-video wall controller
 mode (remote management software)
 ADNSVMX-AGT . . . VideoEdge VMx Agent
 (virtual matrix video wall software)

ADNSCX-AMC . . . American Dynamics Cx Alert Console
 (alert management and map editor software)
 ADNSCX-PDA . . . American Dynamics Cx Mobile Alert
 (PDA software)
 ADNSCX-SM . . . American Dynamics Cx Site Manager
 (centralized three-tier server software)

(7) Refer to www.americandynamics.net for the latest list of supported devices, hardware, codecs, browsers, and other related information including recommended system requirements for hardware and storage. All proprietary hardware components (e.g. RAID controllers) or devices (e.g. new IP cameras) require special drivers or unique camera handlers. Therefore, review information related to the latest released version.

Product offerings and specifications are subject to change without notice. Actual products may vary from photos. Not all products include all features. Availability varies by region; contact your sales representative. Certain product names mentioned herein may be trade names and/or registered trademarks of other companies.



Illustra

Illustra, the IP camera product line for Security Products, a division of Building Technologies & Solutions for Johnson Controls, is a leading manufacturer and designer of video surveillance products. Security and other industries require a full line-up of cyber secure, high-definition video devices that provide superior low-light, wide dynamic range, low network latency, multiple codecs and streams. The Pro, Flex and Essential family of Illustra IP cameras include Minidome, Compact dome, bullet, box, micro, PTZ and Fisheye.

For additional information, please contact:

Johnson Controls
6 Technology Park Drive
Westford, MA 01886 USA
Phone: +1 978 577 4000
Email: VideoApps@tycoint.com
Web: www.illustracameras.com

2MP NETWORK IP INDOOR / OUTDOOR BULLET CAMERA

(IES02-B10-BI04 & IES02-B12-BI04)

MasterFormat 2016:
28 21 13 NETWORK IP Cameras

Notes to Specifier:

1. Explanatory notes and comments are presented in **colored** text.

Notice

Please read this A&E document thoroughly and save it for future use before attempting to specify this unit. The information in this document was current when published. The manufacturer reserves the right to revise and improve its products. All specifications are therefore subject to change without notice.

Trademarks

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Important Note to Security Systems Specifiers

CSI MasterFormat 2016 incorporates numerous significant changes affecting electronic safety and security. This document is written using MasterFormat 2016. The following is a guide to the MasterFormat numbers relevant to the product referenced in this specification.

Primary Specification Area:

MasterFormat 2016:

28 20 00	Video Surveillance
28 21 00	Surveillance Cameras
28 21 13	IP Cameras

Related Requirements:

MasterFormat 2016:

Division 27 Communications

27 20 00	Data Communications
27 21 00	Data Communications Network Equipment
27 21 29	Data Communications Switches and Hubs

Division 28 Electronic Safety and Security

28 05 00	Common Work Results
28 05 07.13	Power Sources for Video Surveillance
28 05 07.21	PoE Power Sources for Electronic Safety and Security
28 05 11	Cyber Security Requirements for Electronic Safety and Security
28 05 19.13	Hybrid Digital Video Recorders
28 05 19.15	Network Video Recorders
28 05 33	Safety and Security Network Communications Equipment
28 06 20	Schedules for Video Surveillance
28 21 19	Camera Mounts & Accessories
28 23 00	Video Management System

2MP NETWORK IP INDOOR/OUTDOOR BULLET CAMERA

PART 1 GENERAL

1.01 SUMMARY

- A. Section includes a True Day / Night, and TWDR 2MP Network IP indoor/outdoor mini-dome white vandal camera with single RJ-45 port for HD quality images, Combining high-sensitivity low-noise CMOS progressive sensor with illustra low-light technology for superior low-light performance Product: A NVT complaint ONVIF Profile S, T, G, Fixed and motorized vari-focal P-Iris lens camera powered by PoE or 12v DC Power supply (see specs below for specific details).
- B. Related Requirements

Refer to MasterFormat notes at the beginning of this document to select requirements specific to the MasterFormat version being used in the specification.

1.02 REFERENCES

- A. Abbreviations
 - 1. 2D/3D DNR 2-Dimensional / 3-Dimensional Digital Noise Reduction
 - 2. 2MP Two MegaPixel (2,000,000 pixels)
 - 3. AEC Automatic Exposure Control
 - 4. ARP Address Resolution Protocol
 - 5. B/W Black and White
 - 6. BNC Bayonet Neill Concelman connector
 - 7. CAT5 Category 5 twisted pair Ethernet cable
 - 8. CAT5E Category 5 Enhanced twisted pair Ethernet cable
 - 9. CAT6 Category 6 twisted pair Ethernet cable
 - 10. CBR Constant Bit Rate
 - 11. CMOS Complementary Metal-Oxide Semiconductor image sensor
 - 12. CVBR Constrained Variable Bit Rate
 - 13. CCTV Closed-Circuit Television (aka Video Surveillance)
 - 14. DHCP Dynamic Host Configuration Protocol
 - 15. DNS Domain Name System
 - 16. DDNS Dynamic Domain Name System
 - 17. DOF Depth of Field
 - 18. EAP-TLS Extensible Authentication Protocol Transport Layer Security
 - 19. EAPoL Extensible Authentication Protocol over LAN
 - 20. FE Fisheye
 - 21. FOV Field of View

22. FPS	Frames per Second (same as Images per Second)
23. FTP	File Transfer Protocol
24. GB	Giga Bytes
25. GbE	Gigabit Ethernet
26. H.264	MPEG-4 Part 10, Advanced video compression format standard
27. H.265	MPEG-H Part 2, HEVC video compression format standard
28. HD	High Definition
29. HEVC	High Efficient Video Coding
30. HTTP	Hypertext Transfer Protocol
31. HTTPS	Hypertext Transfer Protocol Secure
32. iAPI3	Illustra Application Programming Interface (version 3.x)
33. ICMP	Internet Control Message Protocol
34. ICR	Infrared Cut-filter Removal
35. IETF NTP	Internet Engineering Task Force for Network Time Protocol working group
36. IGMP	Internet Group Management Protocol
37. IK07	Impact Protection (07 = Impact Proof from 40 cm height and 2 joules)
38. IK10	Impact Protection (10 = Impact Proof from 40 cm height and 20 joules)
39. IntelliZip	Illustra enhanced image and bandwidth compression for H.264 & H.265
40. IP	Internet Protocol
41. IP66	Ingress Protection (66 = Dust-Tight and Low Water Pressure)
42. IP67	Ingress Protection (67 = Dust-Tight and Immersion up to 3 feet / 1 meter)
43. IPS	Images per Second (same as Frames per Second)
44. IPv4	Internet Protocol Version 4 (32-bit addresses)
45. IPv6	Internet Protocol Version 6 (128-bit addresses)
46. IR	Infrared
47. LAN	Local Area Network
48. LLDP	Link Layer Discovery Protocol
49. Mbps	Megabits per second (10 or 100 or 1,000)
50. MB	Mega Bytes
51. MD	Mini-Dome form-factor
52. mDNS	Multicast DNS
53. Micro SDXC	Onboard Storage Media Type
54. MJPEG	Motion JPEG video compression format standard
55. mm	Millimeter
56. nm	Nanometer
57. n/a	Not Applicable

- | | |
|--------------|---|
| 58. NR | Noise Reduction |
| 59. NTP | Network Time Protocol |
| 60. NVT | Network Video Transmitter |
| 61. ONVIF | Open Network Video Interface Forum |
| 62. PEAP | Protected Extensible Authentication Protocol |
| 63. PoE | Power over Ethernet standard |
| 64. PoE+ | Power over Ethernet Plus standard |
| 65. PPPoE | Point-to-Point Protocol over Ethernet |
| 66. PTZ | Pan-Tilt-Zoom optical functionality |
| 67. QoS | Quality of Service |
| 68. ROI | Region of Interest |
| 69. RTCP | RTP Control Protocol |
| 70. RTP | Real-Time Transport Protocol |
| 71. RTSP | Real Time Streaming Protocol |
| 72. SDN | Soft Day/Night |
| 73. SFTP | Secure File Transfer Protocol |
| 74. SMTP | Simple Mail Transfer Protocol |
| 75. SNMP | Simple Network Management Protocol |
| 76. SOAP | Simple Object Access Protocol |
| 77. SSH | Secure Shell protocol |
| 78. SSL | Secure Socket Layer encryption cryptographic protocol |
| 79. TCP/IP | Transmission Control Protocol / Internet Protocol |
| 80. TDN | True Day/Night |
| 81. TLS | Transport Layer Security cryptographic protocol |
| 82. UDP | User Datagram Protocol |
| 83. UPnP | Universal Plus and Play |
| 84. VBR | Variable Bit Rate |
| 85. WAN | Wide Area Network |
| 86. WDR | Wide Dynamic Range |
| 87. SWDR | Smart Wide Dynamic Range |
| 88. TWDR | True Wide Dynamic Range |
| 89. WS | Web Services Dynamic Discovery |
| 90. Zeroconf | Zero-configuration networking |
- B. Reference Standards
1. Safety Standards:
 - a. UL 60950-1 – Information Technology Equipment

- b. EN 60950-1 – Information Technology Equipment
- c. CSA 22.2 No. 60950 – Information Technology Equipment
- d. IEC 60950-1 – Information Technology Equipment
- 2. Emissions Standards:
 - a. FCC Part 15 Class A – Commercial or Industrial Use
 - b. EN55032 Class A – Information Technology Equipment
 - c. AS/NZS CISPR 32 Class A – Information Technology Equipment
 - d. ICES-003/NMB-003 Class A – Information Technology Equipment
- 3. IEEE Standards:
 - a. 802.1x Port-based Network Access Control provides authentication mechanism
 - b. 802.3: Ethernet standard that specifies physical media and working characteristics of Ethernet.
 - c. 802.3af: PoE (Power over Ethernet) standard that provides 12.95 watts (maximum 15.40 watts and 250 mA current) of electrical current over a complaint Ethernet cable (CAT5e or CAT6) as an alternative power source to 24VAC power input for operating the device.
 - d. 802.3at: PoE+ (Power over Ethernet Plus) standard that provides 25.50 watts (maximum 30.00 watts and 600 mA current) of electrical current over a complaint Ethernet cable (CAT5e or CAT6) as an alternative power source to 24VAC power input for operating the device.
- 4. Immunity Standards:
 - a. EN55024
 - b. EN50130-4

1.03 SUBMITTALS

- A. Product Data
 - 1. Manufacturer's printed or electronic data sheets
 - 2. Manufacturer's installation and operation manuals
 - 3. Manufacturer's release notes, application notes, and/or technical bulletins

1.04 QUALIFICATIONS

- A. Manufacturer shall be ISO 9001:2008 certified and a reputable Fortune 100 company with a minimum of 20 years' experience in manufacturing for in the security industry.
- B. Contractor shall provide a competent trainer who has extensive experience with the installed systems and in delivering training to provide the instruction. As an alternative, the Contractor may propose the use of factory training personnel for onsite Professional Services.

1.05 WARRANTY

- A. Manufacturer shall provide a limited 3 year warranty for the device to be free of defects in material and workmanship.

END OF SECTION

PART 2 PRODUCTS

2.01 EQUIPMENT

- A. Manufacturer: Johnson Controls
6 Technology Park Drive
Westford, MA 01886 USA
Phone: +1 978 577 4000
Email: VideoApps@tycoint.com
Web: www.illustracameras.com
- B. Model: IES02-B10-BI04
- C. Alternatives: IES02-B12-BI04

2.02 DESCRIPTION

- A. The network IP camera shall:
 1. Built-in web server
 2. Support multiple streams, up to 1920x1080 Pixels resolution
 3. Sony IMX307 1/2.8", 2.13um, DOL 2F
 4. Onboard SD storage for local recording
 5. IK7 resistant and IP67 rating for ingress protection
 6. CE / FCC and UL certification Complies Capable of integration with network recording systems which support iAPI3 or ONVIF Profiles S T, G.
 7. Capable of operating as a standalone device on the network

B. Functions

Motion detection	3 zones, independent sensitivity
Blur detection	Yes
WDR	Digital WDR & TWDR
Local storage	Micro SD Card
Enhanced Security	Enhanced Security Feature Provides: One-Click Security Hardening, User Access Log, Validates Complex Credentials, Disables Unused Protocols
Security Key management	Crypto Authentication device for key management and encryption functionality

1. Standards:
 - a. ONVIF Profile S,T, G (Conformance with Test Tool 19.12)
 - b. Illustra iAPI3 v3.4.3
2. Web Browser access:
 - a. Microsoft Internet Explorer
 - b. Google Chrome

- c. Mozilla Firefox
 - d. Apple Safari
 - 3. Streaming methods for audio, video and metadata:
 - a. Unicast
 - 4. 2MP resolution camera shall support up to 4 streams with the following resolution options with maximum fps dependent on resolution:
 - a. Stream 1
 - 1) H.265, H.264, MJPEG
 - a) Maximum of 30 ips @ 1920x1080 Pixels
 - b. Stream 2
 - 2) H.265, H.264, MJPEG
 - a) Maximum of 30 ips @ 1920x1080 Pixels
 - c. Maximum Streams: 3 Concurrent streams
- Note to specifier: See attached tables (section 3.08) for full list of resolutions.*
- C. Cyber Security and Authentication:
- 1. Enhanced Security:
 - a. One-Click Security Hardening
 - b. Certificate Management
 - c. Disabling Insecure and unused protocols
 - d. User Access Log for Cyber Audit Trail
 - e. Enforce and validate complex credentials
 - f. RTSP authentication
 - 2. HTTPS Encryption (HTTP over TLS) – RFC2818
 - 3. Multi-level user rights and password Protection
 - 4. TLS – RFC5246 v1.2
 - 5. WS-Security
 - 6. Enhanced Security spec compliant:2.4
 - 7. Enhanced Security :Enhanced Security Feature Provides: One-Click Security Hardening, User Access Log, Validates Complex Credentials, Disables Unused Protocols
 - 8. Security Key management: Crypto Authentication device for key management and encryption functionality
 - 9. Secure boot, which ensures the camera will not boot if software has tampered with in any way
- D. Camera Characteristics:
- 1. Onboard Storage: (SD card Not Included)
 - a. Type: Micro SDXC Card
 - b. Speed: Class 10 or higher
 - c. Capacity: Maximum of 256GB

2. Memory:
 - a. ROM/Flash: 256 MB
 - b. RAM: 512 MB
3. Video Codec Settings:
 - a. H.265
 - 1) Main Profile
 - 2) GOP Range: 1 to 150 (default 30)
 - 3) Bit Rate Methods: CBR, VBR, CVBR (default VBR)
 - 4) VBR Quality: Lowest, Low, Medium, High, Highest (default Highest)
 - 5) CBR Bit Rates: 16 to 10,000 Kbps (default 7,000)
 - 6) CVBR Settings: Maximum bit rate (default 8,000)
 - b. H.264
 - 1) High & Main Profile
 - 2) GOP Range: 1 to 150 (default 30)
 - 3) Max GOP (H26x Intellizip only) 1 -180 (default 62)
 - 4) Bit Rate Methods: CBR, VBR, CVBR (default CVBR)
 - 5) VBR Quality: Lowest, Low, Medium, High, Highest (default High)
 - 6) CBR Bit Rates: 16 to 10,000 Kbps (default 7,000)
 - 7) CVBR Settings: 500 to 10,000 Kbps Maximum bit rate (default 8,000)
 - c. MJPEG
 - 1) Quality: 1 to 100 (default 50)
4. Lens:

IES02-B10-BI04

 - a. Format: 1/2.7"
 - b. Design: Fixed
 - c. Aperture Range: F 1.8
 - d. IR Correction: Optical Corrective
 - e. Day/Night: True D/N with ICR
 - f. View Angles:
 - 1) Horizontal: 110°
 - 2) Vertical: 60°
 - g. Rotations:
 - 1) Pan Range: 360°
 - 2) Tilt Range: 90°
 - 3) Z-Axis Rotation: -N/A

IES02-B12-BI04

- a. Format: 1/ 2.7"
 - b. Design: Varifocal
 - c. Focal Distance: Integrated 2.7~ 13.5mm Varifocal Megapixel Lens
 - d. Aperture Range: F/1.4 (Wide) ~ F/2.8 (Telephoto)
 - e. Focus Type:
 - 1) One-Touch Motorized Focus
 - 2) Motorized Varifocal
 - 3) Lens Calibration
 - f. Iris Type: DC-Iris
 - g. IR Correction: Optical Corrective
 - h. Day/Night: True D/N with ICR
 - h. View Angles:
 - 3) Horizontal: 100° (Wide) and 34° (Telephoto)
 - 4) Vertical: 54° (Wide) and 20° (Telephoto)
 - i. Rotations:
 - 1) Pan Range: 360°
 - 2) Tilt Range: 90°
 - 3) Z-Axis Rotation: N/A°
5. IR
- a. IR: Adaptive IR
 - b. IR Distance: 30m
6. Video Imaging
- a. AE Weighting Methods:
 - 1) Full Picture
 - 2) Upper
 - 3) Lower
 - 4) Centre Weighted
 - 5) Spot
 - 6) Left
 - 7) Right
 - b. Shutter Speed
 - 1) 1/10,000 to 1/2sec

Note to specifier: See attached tables (section 3.08) for full list of shutter speed.
 - c. Exposure:
 - 1) Compensation Offset Range: -2 to +2 F-Stops (default 0)

- 2) Minimum Exposure: 1/10,000 sec (default)
- 3) Maximum Exposure: 1/7.5 sec (default)
- 4) Frequency: 50Hz or 60Hz (default 60 Hz)
- 5) Flicker less Mode: Enable or Disable (default Disabled)
- d. White Balance:
 - 1) Auto Normal
 - 2) Manual
 - 3) Auto Wide
- e. Wide Dynamic Range Methods:
 - 1) DWDR with ICR
 - 2) True WDR with ICR
- f. Dynamic Range:
- g. True WDR 120 dB Technologies(Sensor Specification)
- h. Flicker Loss: 50/60 Hz or None
- i. Minimum Illumination:

Minimum Illumination	IES02-D10-OI04 F2.8mm	IES02-D12-OI04 F2.7 – 13.5mm
Color, 1/4s, 30IRE, AGC	0.03 Lux	0.03 Lux
B/W, 1/4s, 30IRE, AGC	0.02 Lux	0.02 Lux
B/W, 1/4s, 30IRE, AGC, IR on	0 Lux	0 Lux

- 7. Motion Detection: 3 Zones
- 8. Blur Detection
- 9. Privacy Zones: 8 Rectangular Zones
- 10. ROI High Compression Quality Zones:
 - a. 9 Rectangular Zones
 - b. Allows Bandwidth Optimization
- 11. Event Alarms:
 - a. Triggers:
 - 1) Motion Detection
 - b. Actions:
 - 1) FTP file transfer
 - 2) SD card recording
 - 3) SMTP email file transfer
- 12. I/O Interfaces:
 - a. Reset/Reboot: 1 Recessed Push Button
 - b. Return to Factory Default Settings: 1 Recessed Push Button
- 13. Menu Languages:

- a. English (US) (Default)

Note to specifier: See attached tables (section 3.08) for full list of menu languages.

14. User Accounts:

- a. Administrator
- b. Operator
- c. User

15. Text Overlay:

- a. Camera Name
- b. Date Time
- c. User Defined Text
- d. 4 position options

E. Electrical Characteristics:

- 1. Power supply: Dual
- 2. Input Voltage options:
 - a. (PoE) IEEE 802.3afType 1 Class 3, 9.7W(Vari-focal lens camera),
8.2W(Fixed lens camera)
 - b. DC 12 V (-10% to +10%) Terminal block 2-pin 3.5 mm (47 to 63 Hz)
- 3. Power Draw POE:
 - a. Current: 0.17A(Fixed lens camera), 0.2A(Vari-focal lens camera)
 - b. Wattage: 8.2W(Fixed lens camera), 9.7W Vari-focal lens camera)
 - c. Surge Protection: Yes
- 4. Power Draw 12V-DC:
 - a. Current: 0.69A(Fixed lens camera), 0.82A(Vari-focal lens camera)
 - d. Wattage: 8.3W(Fixed lens camera), 9.9W Vari-focal lens camera)
 - b. Surge Protection: Yes
- 5. Surge Suppression:
 - a. PoE power input: TVS rated at 58V, 32A, 3000watts, 10/1000us impulse
 - b. DC power input: TVS rated at 58V, 4.3A, 400watts, 10/1000us impulse
 - c. Ethernet Tx, Rx: TVS rated at 5.5V, 40A, 40watts, 8/20us impulse

F. Network Characteristics:

- 1. Ethernet interface: 10/100 Mbps Ethernet
- 2. Ethernet port: Single Copper RJ-45
- 3. Management
 - a. Remote configuration and management via web browser of the following:
 - 1) System Status
 - 2) IP Address Settings
 - 3) TLS Encryption

- 4) Password Protected User Levels
- 5) System Log
- 6) Device Name
- 7) Firmware Upgrade
- b. Remote configuration and management via Illustra Connect of the following:
 - 1) Device Information (Device Name, Hostname, IP Address, Model Name, Product Code, Manufacturer, Firmware Version, Status, MAC Address)
 - 2) Discovery (IPv4, IPv6 or both; discovery via ONVIF protocol)
 - 3) Snapshot
 - 4) Configure Network/Users/Date-Time (Single or Bulk)
 - 5) IP Address Settings
 - 6) Diagnostics
 - 7) Firmware Upgrade (Single or Bulk)
 - 8) Bulk configuration (enhance security, Stream table, Picture setting)
 - 9) Access Web Server
 - 10) Export Device List in CVS Format
 - 11) Device Management (Reset or Reboot)
4. Base Protocol: TCP/IP – RFC4614
5. Communication Protocol: SIP, TCP/IP, UDP, HTTP/HTTPS, FTP/SFTP, NTP, RTP/RCP/RTSP, ONVIF, WS-Discovery, ICMP, UPnP, SNMP, SMTP, DNS, IEEE 802.3
6. Discovery Methods:
 - a. mDNS Discovery Zeroconf
 - b. UPnP
 - c. WS-Discovery (ONVIF and Illustra Connect)
7. Email:
 - a. SMTP – RFC5321
 - b. External Interface Protocol:
 - a. iAPI3 v3.4.3
 - b. ONVIF Profile S, T, G (Conformance with Test Tool 19.12)
 - c. SOAP (ONVIF only)
 - c. File Transfer:
 - c. FTP
 - d. Network Address Configurations:
 - a. DHCP – RFC2131
 - b. IPv4 – RFC791
 - c. IPv6 – RFC2460
 - d. LLDP

- e. Static IP
- f. Zeroconf – RFC3927
- g. Illustra Connect Utility
- e. Network Layer: ICMP
- f. Network Management: SNMP v2c / v3
- g. Network Name Resolution:
 - a. DNS – RFC5395
 - b. DDNS – RFC2136
- h. Streaming Methods:
 - a. RTP – RFC3550
 - b. RTCP – RFC3550
 - c. RTSP – RFC2326
- d. Unicast
- e. Multicast – RFC1112 Level 1
- i. Time Synchronization:
 - a. NTP – RFC1305
 - b. Poll Rate: 1 per 60 minute
- j. Transport Layers:
 - a. TCP – RFC973
 - b. UDP – RFC768

G. Diagnostic Indicators

- 1. Network
 - a. Green LED: Ethernet Link
 - b. Red LED: Network Activity**

H. Physical:

- a. IES02-B10-BI04
 - 1. Dimensions (WxD): 77mm x84mm x 147mm (3.03in x 3.3in x 5.78in)
 - 2. Weight: Approximately 0.49kg (1.08 lbs)
 - 3. Shipping Weight: Approximately 0.83 kg (1.83 lbs)
- b. IES02-B12-BI04
 - 4. Dimensions (WxD): 77mm x84mm x 176mm (3.03in x 3.3in x 6.92in)
 - 5. Weight: Approximately 0.58kg (1.28 lbs)
 - 6. Shipping Weight: Approximately 0.91 kg (2.01 lbs)
 - 7. Vandal Rating: IK7

- 8. Installation Type: Indoor/Outdoor
- 9. Color: White
- 10. Bubble: N/A
- 11. Lens Cover:
 - a. Transmittance: 90%
 - b. Material Type: Plastic PC(L-1250Z)
- 12. Materials:
 - a. Housing: Aluminum Alloy (ADC 12)
- I. Other Parts: PC (S3000UR) (L-1225Z)
Silicon (KE-951U) (TSE2183U)
- J. Environmental:
 - 1. Cold Start Temperature: -20° C to 60° C (-4° F to 140° F)
 - 2. Operating Temperature: -30° C to 60° C (-22° F to 140° F)
 - 3. Storage Temperature: -40° C to 60° C (-40° F to 140° F)
 - 4. Relative Humidity: 10% to 90% (non-condensing)

2.03 ACCESSORIES

- A. Documentation:
 - 1. Quick Start Guide
 - 2. Template
- B. Hardware:
 - 1. Tool: Torx Wrench
 - 2. Mounting Screws: 3 Plastic Anchors with Screws
 - 3. Desiccant

END OF SECTION

PART 3 EXECUTION

3.01 INSTALLERS

- A. Contractor shall comply with all applicable state and local licensing requirements.
- B. Contractor shall demonstrate network and CCTV knowledge to the satisfaction of the Owner's representative.

3.02 EXAMINATION

- A. Submission of a proposal confirms that the contract documents and site conditions are accepted without qualifications unless exceptions are specifically noted.
- B. The site shall be visited on a regular basis to appraise ongoing progress of other trades and contractors, make allowances for all ongoing work, and coordinate the requirements of this contract in a timely manner.
- C. Inspect systems before installation for cosmetic defects or damage.

3.03 PREPARATION

- A. Prior to installation, the camera device and network shall be configured and tested to meet the specified requirements in accordance with the manufacturer's instructions.

3.04 INSTALLATION

- A. Contractor shall follow all Manufacturer's published installation guidelines for installing, programming and testing of the camera.
- B. In order to ensure a complete, functional camera, for bidding purposes, where information is not available from the Owner upon request, the worst-case condition shall be assumed.
- C. Camera placement, pointing position, and configurations shall be coordinated with the Owner's representative, where appropriate.
- D. All necessary back boxes, racks, connectors, supports, conduit, cable, and wire must be furnished and installed to provide a complete and reliable camera installation. Exact location of all boxes, conduit, and wiring runs shall be presented to the Owner for approval in advance of any installation.
- E. All conduit, cable, and wire shall be installed parallel and square with building lines, including raised floor areas. Conduit fill shall not exceed forty percent (40%). All wires shall be gathered and tied up to create an orderly installation.
- F. The vandal-resistant network IP camera shall be installed within an indoor or outdoor environment and ceiling or wall mounted methods using provided or optional mounting accessory.
- G. Contractor ensures that the installed product contains the latest revision of Manufacturer's firmware.
- H. When the camera is part of a larger security system, the camera vendor must also be able to offer Professional Services that would deploy trained personnel to assist with the installation and programming of the camera.

3.05 TESTING AND CERTIFICATION

- A. Contractor shall demonstrate the functionality of the camera upon completion of installation, documenting the result of all tests and providing these results to the Owner.
- B. Contractor shall provide the necessary blank forms with instructions to fill in all the required data information that shall make up the information for the installed camera devices (location, installation position, make, model, IP address, username, password, image settings).
- C. Upon satisfactory on line operation of the camera devices, the entire installation including all subsystems shall be inspected. Contractor shall perform all tests, furnish all test equipment and consumable supplies necessary and perform any work as required to establish performance levels for the system in accordance with the specifications. Each device shall be tested as a working component of the completed system. All system controls shall be inspected for proper operation and response.
- D. Tests shall demonstrate the response time and display format of each different type of input sensor and output control device. Response time shall be measured with the system functioning at full capacity. Computer operation shall be tested with the complete data file.
- E. Contractor shall maintain a complete log of all inspections and tests. Upon final completion of system tests, a copy of the log records shall be submitted as part of the as-built documentation along with a letter of certification to indicate that the tests have been performed, and all devices are operational.
- F. The system test shall be witnessed by the Authority Having Jurisdiction. Any deficiencies noted during the testing must be corrected.
- G. A letter of certification shall be provided to indicate that the tests have been performed, and all devices are operational.
- H. The Owner's representative shall accept the system.

3.06 MAINTENANCE

- A. Preventative Maintenance Agreement during Warranty: As a separate price item, the Contractor shall provide preventative maintenance during the warranty period. Maintenance shall include, but not be limited to:
 - 1. Labor and materials, at no additional cost, to troubleshoot the camera devices.
 - 2. Labor and materials, at no additional cost, to provide test and adjustments to the camera devices.
 - 3. Regular inspections
- B. Preventative Maintenance Agreement: As a separate price item, the Contractor shall provide a complete Maintenance Agreement for a period of 12 months after the conclusion of the warranty period. The Maintenance Agreement shall include, but not be limited to:
 - 1. Labor and materials, at no additional cost, to troubleshoot the camera devices.
 - 2. Camera devices.
 - 3. Labor and materials, at no additional cost, to provide test and adjustments to the camera devices.
 - 4. Regular inspections.

3.07 STORAGE

- A. The product shall be stored in an environment consistent within the Manufacturer's published environmental ratings.

3.08 ATTACHED TABLES

A. Table 1: 2MP Stream

		Normal Mode			
		Resolution		Max FPS	
				TWDR Off	TWDR
Stream 1	H.264, H.265, MJPEG	1920 x 1080 (1080p) 16:9		30	30
		1600 x 900 (HD+) 16:9		30	30
		1280 x 720 (720p) 16:9		30	30
		1024 x 576 (PAL+) 16:9		30	30
		960 x 540 16:9		30	30
		800 x 480 16:9		30	30
		640 x 360 (mHD) 16:9		30	30
		480 x 270 16:9		30	30
		320 x 180 16:9		30	30
Stream 2	H.264, H.265, MJPEG	1920 x 1080 (1080p) 16:9		30	30
		1600 x 900 (HD+) 16:9		30	30
		1280 x 720 (720p) 16:9		30	30
		1024 x 576 (PAL+) 16:9		30	30
		960 x 540 16:9		30	30
		800 x 480 16:9		30	30
		640 x 360 (mHD) 16:9		30	30
		480 x 270 16:9		30	30
		320 x 180 16:9		30	30

Note: A maximum of 3 concurrent streams are supported by the camera. This includes shared streams.

B. Table 3: Exposure Times

Exposure Times			
1/10,000 sec	1/2,500 sec	1/250 sec	1/30 sec
1/8,000 sec	1/1,000 sec	1/200 sec	1/15 sec
1/5,000 sec	1/800 sec	1/120 sec	1/7.5 sec
1/4,000 sec	1/500 sec	1/60 sec	1/ 4 sec
	1/400sec		1/ 2 sec

Table 3 – Exposure Times

C. Table 4: Menu Languages

Menu Languages			
Arabic	Dutch	Japanese	Spanish
Czech	English (US)	Korean	Turkish
Chinese (Simplified)	French	Polish	Hindi
Chinese (Traditional)	German	Portuguese	
Danish	Italian	Russian	

Table 4 – Menu Languages (Default = English US)

END OF SECTION