

Purchasing Divison 2019 Washington Street East Post Office Box 50130 Charleston, WV 25305-0130

State of West Virginia Request for Quotation

Proc Folder: 28107

Doc Description: ADDENDUM NO. 1 COMPLETE INSTALLATION OF A CCTV SYSTEM,

Proc Type: Central Purchase Order

Date Issued	Solicitation Closes	Solicitation N	0	Version
2014-10-24	2014-10-30 13:30:00	CRFQ 0	506 WSH1500000003	2

BID RECEIVING LOCATION

BID CLERK

DEPARTMENT OF ADMINISTRATION

PURCHASING DIVISION

2019 WASHINGTON ST E

CHARLESTON

WV

25305

US

VENDOR

Vendor Name, Address and Telephone Number:

Burdette Electric, Inc. 6444 Sissonville Dr Sissonville, WV 25320

304 984-0123

WV CONTRACTOR
WV034524

10/30/14 01:03:37PM West Virginia Purchasing Division

FOR INFORMATION CONTACT THE BUYER

Robert Kilpatrick (304) 558-0067

robert.p.kilpatrick@wv.gov

Signature X

FEIN#

54-2076336

DATE 10-29-14

All offers subject to all terms and conditions contained in this solicitation

Page: 1

FORM ID: WV-PRC-CRFQ-001

NVOICE TO		SHIP TO	SHIP TO		
PROCUREMENT OFFICER - 304-269-1210 HEALTH AND HUMAN RESOURCES WILLIAM R SHARPE JR HOSPITAL		HEALTH AND HUMAN RESOURCE	PROCUREMENT OFFICER - 304-269-1210 HEALTH AND HUMAN RESOURCES WILLIAM R SHARPE JR HOSPITAL		
936 SHARPE HOSPITAL RD		936 SHARPE HOSPITAL RD	936 SHARPE HOSPITAL RD		
WESTON WV26452		WESTON	WV 26452		
US		US			

Line	Comm Ln Desc	Qty	Unit Issue	Unit Price	Total Price
1	Purchase of parts, installation, and warranty of a CCTV Syst				\$ 186,250

Comm Code	Manufacturer	Specification	Model #	
46171610	HIKVISION	see attached o	cut sheets	

Extended Description:

^{1.1.1 - 117} ea. Indoor Internet Protocol (IP) Cameras; 4.1.2 - 12 ea. Outdoor Internet Protocol (IP) Cameras; 4.1.3 - 2 ea. Network Video Recorder(s) NVRs); 4.1.4 - 11 ea. Desktop Computer with Monitor Stations; 4.1.5 - sufficient Network Switces to support the appropriate lenght o abling; 4.1.6 - 1 lump sum Miscellaneous Materials for providing and installing CCTV to operational status; 4.1.7 All Labor necessary to complete project; 4.1.8 1 ea. One year Warranty on all Materials and Labor for entire CCTV System.

	Document Phase	Document Description	Page 3
WSH1500000003	Final	ADDENDUM NO. 1 COMPLETE INSTAL	of 3
		LATION OF A CCTV SYSTEM,	

ADDITIONAL TERMS AND CONDITIONS

See attached document(s) for additional Terms and Conditions

Purchasing Affidavit (Revised 07/01/2012)

STATE OF WEST VIRGINIA Purchasing Division

PURCHASING AFFIDAVIT

MANDATE: Under W. Va. Code §5A-3-10a, no contract or renewal of any contract may be awarded by the state or any of its political subdivisions to any vendor or prospective vendor when the vendor or prospective vendor or a related party to the vendor or prospective vendor is a debtor and: (1) the debt owed is an amount greater than one thousand dollars in the aggregate; or (2) the debtor is in employer default.

EXCEPTION: The prohibition listed above does not apply where a vendor has contested any tax administered pursuant to chapter eleven of the W. Va. Code, workers' compensation premium, permit fee or environmental fee or assessment and the matter has not become final or where the vendor has entered into a payment plan or agreement and the vendor is not in default of any of the provisions of such plan or agreement.

DEFINITIONS:

"Debt" means any assessment, premium, penalty, fine, tax or other amount of money owed to the state or any of its political subdivisions because of a judgment, fine, permit violation, license assessment, defaulted workers' compensation premium, penalty or other assessment presently delinquent or due and required to be paid to the state or any of its political subdivisions, including any interest or additional penalties accrued thereon.

"Employer default" means having an outstanding balance or liability to the old fund or to the uninsured employers' fund or being in policy default, as defined in W. Va. Code § 23-2c-2, failure to maintain mandatory workers' compensation coverage, or failure to fully meet its obligations as a workers' compensation self-insured employer. An employer is not in employer default if it has entered into a repayment agreement with the Insurance Commissioner and remains in compliance with the obligations under the repayment agreement.

"Related party" means a party, whether an individual, corporation, partnership, association, limited liability company or any other form or business association or other entity whatsoever, related to any vendor by blood, marriage, ownership or contract through which the party has a relationship of ownership or other interest with the vendor so that the party will actually or by effect receive or control a portion of the benefit, profit or other consideration from performance of a vendor contract with the party receiving an amount that meets or exceed five percent of the total contract amount.

AFFIRMATION: By signing this form, the vendor's authorized signer affirms and acknowledges under penalty of law for false swearing (W. Va. Code §61-5-3) that neither vendor nor any related party owe a debt as defined above and that neither vendor nor any related party are in employer default as defined above, unless the debt or employer default is permitted under the exception above.

WITNESS THE FOLLOWING SIGNATURE:	
Vendor's Name: Burdette, Electric Inc.	
Authorized Signature: Date: 10-39-14	
State of	
County of Kanacha, to-wit:	
Taken, subscribed, and sworn to before me this 29 day of October, 2014	
My Commission expires Opul 15, 2015.	
AFFIX SEAL HERE NOTARY PUBLIC Seit. Gerte	

OFFICIAL SEAL
NOTARY PUBLIC
STATE OF WEST VIRGINIA
ERIN L. CARTER
WUDEPARTMENT OF AGRICULTURE
1900 KANAWHA BLVD., E
CHARLESTON, WV 25305
My commission expires April 16, 2015

STATE OF WEST VIRGINIA,



State of West Virginia DRUG FREE WORKPLACE CONFORMANCE AFFIDAVIT West Virginia Code §21-1D-5

COUNTY OF KANAWHA TO-WIT:
I, Jaul K Burdette after being first duly sworn, depose and state as follows:
1. I am an employee of BLROETTE ELECTRIC, TIVC; and, (Company Name)
2. I do hereby attest that BERDETTE ELECTRIC, Duc. (Company Name)
maintains a valid written drug free workplace policy and that such policy is in compliance with West Virginia Code §21-1D.
The above statements are sworn to under the penalty of perjury
By: PAUL R BURDETTE
Company Name: Burdette Electric INC.
Date: 10-29-14
Taken, subscribed and sworn to before me this 29th day of October 2014
By Commission expires Copul 16, 2015
OFFICIAL SEAL NOTARY PUBLIC STATE OF WEST VIRGINIA ERIN L. CARTER W DEPARTMENT OF AGRICULTURE 1900 KANAWHA BLVD., E. CHARLESTON, WY 25305 My commission expires April 16, 2015
WITH MY CODE PROVISIONS TATED WITH THE BID IN ORDER TO COMPLY
BID SHALL RESULT IN DISQUALIFICATION OF THE BID.

						Agency W\ REQ.P.O#	
			В	ID BOND			
	KNOW ALL M	N BY THESE PRES	ENTS, That we, the	e undersigned	Burdette Electric	, Inc.	
of	Sissonvill	e,	WV	, as	Principal, and The	Cincinnati Ir	surance Company
of	Cincinna		OH,	a corporation	organized and existi	ing under the	laws of the State of
	OH with i	s principal office in th	ne City ofCi	incinnati	, as Surety, are h	eld and firmly	bound unto the State
		gee, in the penal sum				5%) for	r the payment of which
well and	f truly to be mad	e, we jointly and seve	rally bind ourselve	s, our heirs, a	iministrators, executo	ors, successo	rs and assigns.
	The Condition	of the above obligation	n is such that wher	eas the Princi	pal has submitted to	the Purchasin	g Section of the
Departn		ation a certain bid or					
CCTV	System - Willi	am Sharpe Hospita	al - Weston, WV	- According	to Plans & Specific	cations	I To a second se
						-	
	NOW THEREF	ORE,					
agreeme force an	nd shall furnish a ent created by th d effect. It is exp	hall be accepted and any other bonds and it acceptance of said ressly understood and t of this obligation as	insurance required bid, then this obliga id agreed that the l	by the bid or pation shall be	proposal, and shall in	all other resp	or proposal attached lects perform the tion shall remain in full nder shall, in no event
way imp waive no	The Surety, for aired or affected otice of any such	by any extension of t	ereby stipulates and he time within whic	d agrees that the obligee	the obligations of said may accept such bio	d Surety and i I, and said Su	ts bond shall be in no rely does hereby
	IN WITNESS W	HEREOF, Principal a	nd Surety have her	reunto set the	r hands and seals, a	nd such of the	em as are corporations
		ate seals to be affixed	f hereunto and the	se presents to	be signed by their p	roper officers,	this
30th	_ day of	October 2	2014				
Principal	Corporate Seal				Burdette Electric	c Inc	
mcipai	Corporate Sear			a a		(Name of Prin	cipal)
					By KILL	1/	
						(Must be Pres	
					Paul R. Burdette	Vice Presider	nt) President
					. da. i v. Dardelle	(Title)	TOSIGETT
urely C	orporate Seal						
y 01	orporate ocal				The Cincinnati In	nsurance Co	mpany

IMPORTANT – Surely executing bonds must be licensed in West Virginia to transact surely insurance. Corporate seals must be affixed, and a power of attorney must be attached.

(Name of Surety)

Patricia A. Moye, WV Resident Agent Attorney-in-Fact

THE CINCINNATI INSURANCE COMPANY

Fairfield, Ohio

POWER OF ATTORNEY

KNOW ALL MEN BY THESE PRESENTS: That THE CINCINNATI INSURANCE COMPANY, a corporation organized under the laws of the State of Ohio, and having its principal office in the City of Fairfield, Ohio, does hereby constitute and appoint

Allan L. McVey; Gregory T. Gordon; Patricia A. Moye and/or Kimberly Wilkinson

Charleston, West Virginia

its true and lawful Attorney(s)-in-Fact to sign, execute, seal

and deliver on its behalf as Surety, and as its act and deed, any and all bonds, policies, undertakings, or other like instruments, as follows: Any such obligations in the United States, up to

Fifty Million and No/100 Dollars (\$50,000,000.00).
This appointment is made under and by authority of the following resolution passed by the Board of Directors of said Company at a meeting held in the principal office of the Company, a quorum being present and voting, on the 6th day of December, 1958, which resolution is still in effect:

"RESOLVED, that the President or any Vice President be hereby authorized, and empowered to appoint Attorneys-in-Fact of the Company to execute any and all bonds, policies, undertakings, or other like instruments on behalf of the Corporation, and may authorize any officer or any such Attorney-in-Fact to affix the corporate seal; and may with or without cause modify or revoke any such appointment or authority. Any such writings so executed by such Attorneys-in-Fact shall be binding upon the Company as if they had been duly executed and acknowledged by the regularly elected officers of the Company."

This Power of Attorney is signed and sealed by facsimile under and by the authority of the following Resolution adopted by the Board of Directors of the Company at a meeting duly called and held on the 7th day of December, 1973.

"RESOLVED, that the signature of the President or a Vice President and the seal of the Company may be affixed by facsimile on any power of attorney granted, and the signature of the Secretary or Assistant Secretary and the seal of the Company may be affixed by facsimile to any certificate of any such power and any such power of certificate bearing such facsimile signature and seal shall be valid and binding on the Company. Any such power so executed and sealed and certified by certificate so executed and sealed shall, with respect to any bond or undertaking to which it is attached, continue to be valid and binding on the Company."

IN WITNESS WHEREOF, THE CINCINNATI INSURANCE COMPANY has caused these presents to be sealed with its corporate seal, duly attested by its Vice President this 10th day of May, 2012.

CORPORATE

STATE OF OHIO COUNTY OF BUTLER THE CINCINNATI INSURANCE COMPANY

Vice President

On this 10th day of May, 2012, before me came the above-named Vice President of THE CINCINNATI INSURANCE COMPANY, to me personally known to be the officer described herein, and acknowledged that the seal affixed to the preceding instrument is the corporate seal of said Company and the corporate seal and the signature of the officer were duly affixed and subscribed to said instrument by the authority and direction of said corporation.

MARK J. HÜLLER, Attorney at Law NOTARY PUBLIC - STATE OF OHIO

My commission has no expiration date. Section 147.03 O.R.C.

I, the undersigned Secretary or Assistant Secretary of THE CINCINNATI INSURANCE COMPANY, hereby certify that the above is a true and correct copy of the Original Power of Attorney issued by said Company, and do hereby further certify that the said Power of Attorney is still in full force and effect.

GIVEN under my hand and seal of said Company at Fairfield, Ohio. 30th

this

day of October

SS:

· 2014

Assistant Secretary

BN-1005 (5/12)

SOLICITATION NUMBER: CRFQ 0506 WSH1500000003 Addendum Number: 1

The purpose of this addendum is to modify the solicitation identified as ("Solicitation") to reflect the change(s) identified and described below.

Applicable Addendum	Category:
---------------------	-----------

1 1	Modify bid opening date and time
[]	Modify specifications of product or service being sought
[]	Attachment of vendor questions and responses
[]	Attachment of pre-bid sign-in sheet
[]	Correction of error
[/]	Other

Description of Modification to Solicitation:

- 1) To provide a copy of the pre-bid meeting sign-in sheet for the above solicitation.
- 2) To provide clarification of technical questions.
- 3) To provide drawings to use as reference to technical questions.
- 4) To provide a copy of the certification and signature page.
- 5) To provide Addendum Acknowledgment form.

Additional Documentation: Documentation related to this Addendum (if any) has been included herewith as Attachment A and is specifically incorporated herein by reference.

Terms and Conditions:

- 1. All provisions of the Solicitation and other addenda not modified herein shall remain in full force and effect.
- 2. Vendor should acknowledge receipt of all addenda issued for this Solicitation by completing an Addendum Acknowledgment, a copy of which is included herewith. Failure to acknowledge addenda may result in bid disqualification. The addendum acknowledgement should be submitted with the bid to expedite document processing.

ATTACHMENT A

W5H15*3/W5H15013

SIGN IN SHEET

Request for Proposal No.

PLEASE PRINT

Page 1 of 2

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TO PRINT LEGIBLY.	IF PASSIBLE LEAVE
SIDM to prepare	- IF POSSIBLE, LEAVE A BUSINESS CARD

	DLE, LEAVE A BUSINESS CARD	
FIRM & REPRESENTATIVE NAME	MAILING ADDRESS	TELEPHONE & FAX
Company: Advanced Communicat	1000 30000 11 0	NUMBERS
Rep: Carry J. Casey		PHONE 304-426-409
Email Address: I case of acceptral Com	Parkerburg WV 26102	TOLL -800-336-4933
Company: INTERTECH SECURITY		FAX 304-233-9666
Rep: STEPHEN BALCON	1501 PREPLE AVE.	PHONE 412-480-5117
	0 1500	TOLL
Email Address: Sbalcer Olntertedosecum	· Celm	
Company: INGERSELY SECURETY		FAX 412-894-2600
Descrip	1501 Persee AsE	PHONE 412. 246, - 1200
Rep: Roser STANBA	for Pr 15237	IOLL
Email Address: Lostanele @ interteusewelly	elana.	FREE
Company Burdelle Flecher INC.		FAX
All Lecine The.	6444 Sissonville Prive	PHONE SAIL MALL
Rep: Mike Swolder	Sissomille, W 25321	PHONE 304-421-1005
mail Address: pburdette @ burdette-electric. com		FREE
company: Electionic Specialty Company	Police Hoo	FAX 264- 984-0124
ep: Tam Time Tompany	1325 Douber Ave	PHONE 304-766-(121
- JUNIA	D 1 11/ -5-1	TOLL
meil Address: tom @ election. specially.com	27060	FREE 800-642-5500
		FAX 304 642 - 6210
e		

WSH15*3 WSH15013

SIGN IN SHEET

Request for Proposal No.

PLEASE PRINT

Page _____ of _____ Date: _____ | o | | | | | | | | |

* PLEASE BE SURE TO PRINT LEGIBLY - IF POSSIBLE, LEAVE A BUSINESS CARD

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FIRM & REPRESENTATIVE NAME	MAILING ADDRESS	TELEPHONE & FAX
Company: Longs Security amera Systems LLC		NUMBERS
Rep: Alpu E Lang		PHONE 304-925-0338
Email Address: LANGSCC-TU & SULTONING NET	Charleston W 25304	TOLL FREE
		FAX 304-925-0338
Company: Advanced Alam Technologis	PO Box 4368	PHONE (304) 422-4387
Rep: Robert 1-fill	Parkerst . LAL 21111	TOLL (384) 433-4387
Email Address: advanced alarm e Sudden 1	ink and	
Company: MASTER SERVICE MTD Atlantic		FAX (304) 422-4387
Rep: Miles PACK	1945 HARRISON AVE	PHONE (804) 636-8170
	EIKINS WV 26241	TOLL FREE
Email Address: Miles@MASTERSERVICECOCP.Com		FAX (309) 636-8206
Company:		FAX (3-1)0 % -8208
Rep:		PHONE
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Company:		FAX
dep:		PHONE
		TOLL.
mail Address:		FREE
	·	FAX

WSH15059 / WSH1500000004 Addendum #1

Closed Circuit Television System

Question #1: Are there unused fiber terminations at all (3) Buildings? Where is the location of these terminations?

Answer #1: Yes there is existing multimode fiber available, and there are unused fiber terminations at all 3 buildings that will be available for use of this contract.

Question #2: How much Recording Time needs to be kept in storage on the system?

Answer #2: 1 month

Question #3: Please provide drawing with location of Network Switches and the Fiber terminations listed in #1.

Answer #3: See attached drawings

Question #4: Will Full Size, Scale Drawing of all areas of the hospital be provided for bidding Purposes?

Answer #4: Yes. See attached drawings

Question #5: Can exiting Telecommunications closets and racks be identified on full size scale drawings?

Answer #5: Not on full size, but see additional attachments

Question #6: Will Contractor/Vender need to provide Additional Telecommunications equipment mounting racks? If so please provide a specification.

Answer #6: Yes, the contractor/vendor will need to provide the equipment mounting racks. The vendor can use any racks in which the equipment they install is compatible.

Question #7: Where are the (11) Desktop Monitor Stations going to be installed? Can these be indicated on a set of full size scale drawings?

Answer #7: The 11 desktop monitor stations will be located at the 9 nurses stations, 1 at the main switchboard, and 1 at the TLF office. This is not available on full size drawings.

Question #8: Will the (11) Desktop work stations need to be tied into the Hospital network or will they be isolated to the CCTV Network Independent of the Hospital Network?

Answer #8: These workstations will be isolated to the CCTV network.

Question #9: What type of Raceway is acceptable in areas where surface raceways must be used?

Answer #9: No preference on the type of raceway. Relevant construction, safety, and fire code should be maintained.

Question #10: What will be required as a proper means of cable supports of cable routed above ceilings?

Answer #10: No preference as long as relevant fire and safety compliance is maintained.

Question #11: Will A Escort be required while working in Patent Areas? If so, Is contractor to include the cost of a escort the bid? If yes, what cost per hour should be associated with this charge?

Answer #11: No

Question #12: Will contractor be required to repair any existing finishes that become damaged during the system installation?

Answer #12: Yes

Question #13: Are Above ceiling spaces considered a Return Air plenum?

Answer #13: Yes

Question #14: Is there a Existing spare fiber cable between the William R. Sharpe Hospital and the Transitional Living Facility? If so. Will this spare fiber be made available for the use of this contract to connect the systems in both facilities together? And what type of Fiber is existing?

Answer #14: See answer #1

Question #15: Are there Additional Material Specifications other than the Request for Quotation Documents associated with this project?

Answer #15: No

Question #16: Is the total storage 50TB, or 50TB per NVR?

Answer #16: Each NVR must have a minimum of 50TB storage. Question #17: Are there drawings with camera locations available?

Answer #17: See attached.

Prepared time: 11-21-2013 08:54:11

Aerohive Planning Report

Introduction

Thank you for using the Aerohive Planning Tool. This tool is designed to help scope and plan a WiFi Deployment to determine the number of APs required to achieve an intended coverage, AP placement and datarates. This tool calculates the loss in signal strength as it passes through open air and various materials to show predicted coverage.

RF Prediction with Optional Site Survey

An RF prediction is an estimate of WLAN performance and coverage. It uses intelligent algorithms to examine AP behavior based upon an imported floor plan with assigned building characteristics. The accuracy of an RF prediction is dependent upon the confidence level with which the building's RF characteristics are assigned, and the accuracy of AP placement. It is ideal for typical office environments with uniform wall types. In addition RF itself can be unpredictable, due to the difficulty of characterizing the behavior of RF when interacting with various materials.

Complex environments should be verified with a survey to verify the assumptions used in an RF prediction.

Assumptions

The guidelines in this document are based on the following conditions and assumptions:

- Client Data Terminal Transmit (Tx) Power: >=15 dBm.
- Client Data Terminal Antenna Gain: >=0 dBi.
- The map environment type (e.g. Warehouse, Office) relates to an average density which is quantified as a path loss exponent value. It estimates how quickly an RF signal attenuates with distance.
- The indicated wall path-through loss number (e.g. 12dB for a concrete wall) is the attenuation of an RF signal as
 it travels through the wall under a right angle. For any other angle, the loss will be higher.
- The EIRP (Effective Isotropic Radiated Power) of an AP's radio is determined by the Tx power setting, the antenna gain and cable losses. The antenna gain is an average gain obtained through measurements for the different AP types.
- Data rates are based on receive sensitivity numbers obtained through measurements for the different AP types, and a fade margin which is user configurable.

Note: These assumptions are typical for available 802.11 client Data Terminals and typical cubicle densities.

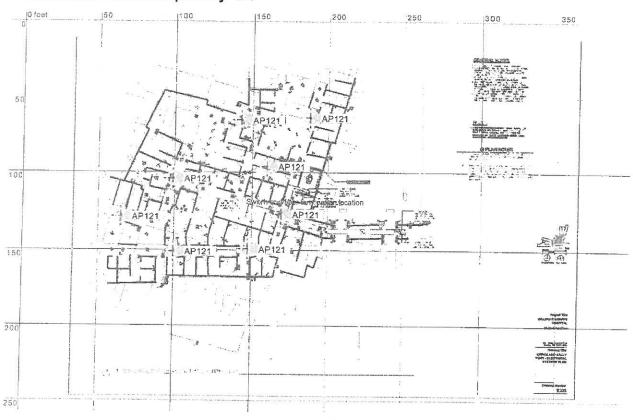
1. DHHR-Sharpe-SallyPort

Summary

Number of Devices assigned to DHHR-Sharpe-SailyPort

8 APs

Devices on DHHR-Sharpe-SallyPort



Device Details

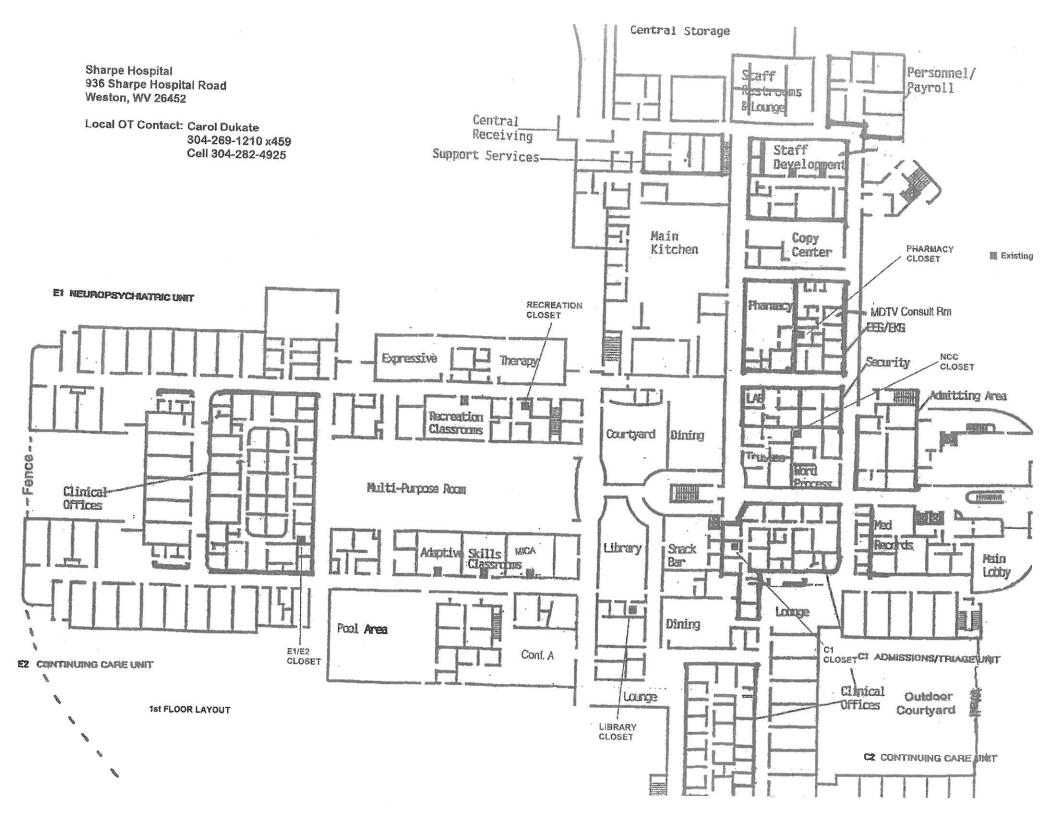
Name	Model	Туре	2.4	GHz	5 GHz		
			Channel	Power	Channel	Power	Description
AP121	AP121	802.11n	Auto(1)	20 dBm	Auto(1)	20 dBm	
AP121	AP121	802.11n	Auto(1)	20 dBm	Auto(1)	20 dBm	***************************************
AP121	AP121	802.11n	Auto(1)	20 dBm	Auto(1)	20 dBm	
AP121	AP121	802.11n	Auto(1)	20 dBm	Auto(1)	20 dBm	
AP121	AP121	802.11n	Auto(1)	20 dBm	Auto(1)	20 dBm	
AP121	AP121	802.11n	Auto(1)	20 dBm	Auto(1)	20 dBm	
AP121	AP121	802.11n	Auto(1)	20 dBm	Auto(1)	20 dBm	
AP121	AP121	802.11n	Auto(1)	20 dBm	Auto(1)	20 dBm	



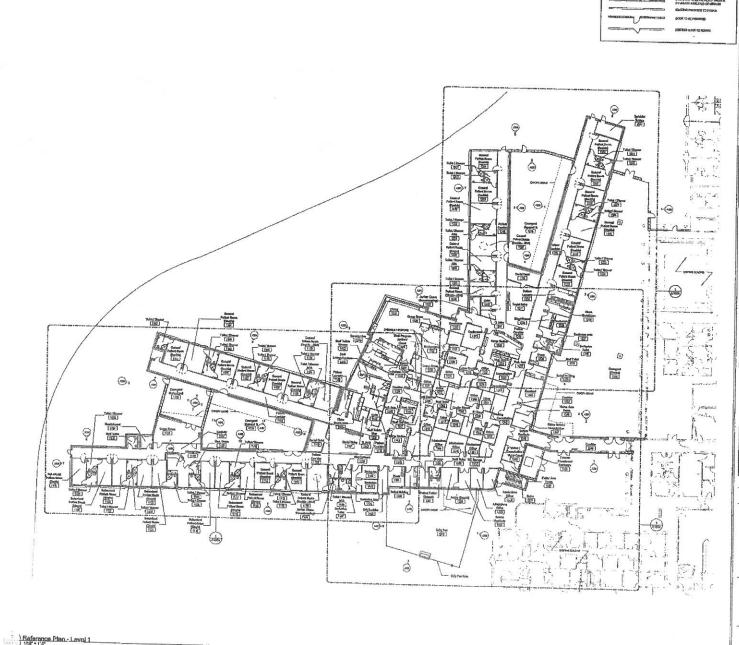
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Device Total For DHHR-Sharpe-SallyPort

Model	Part number	Total
AP121	AH-AP-121-N-FCC	8







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architectur plannin interior desig sos interpreses Dos PPO Flos Plesburgs, PA 1833





Project North Tree North

Bld Set

Newtons

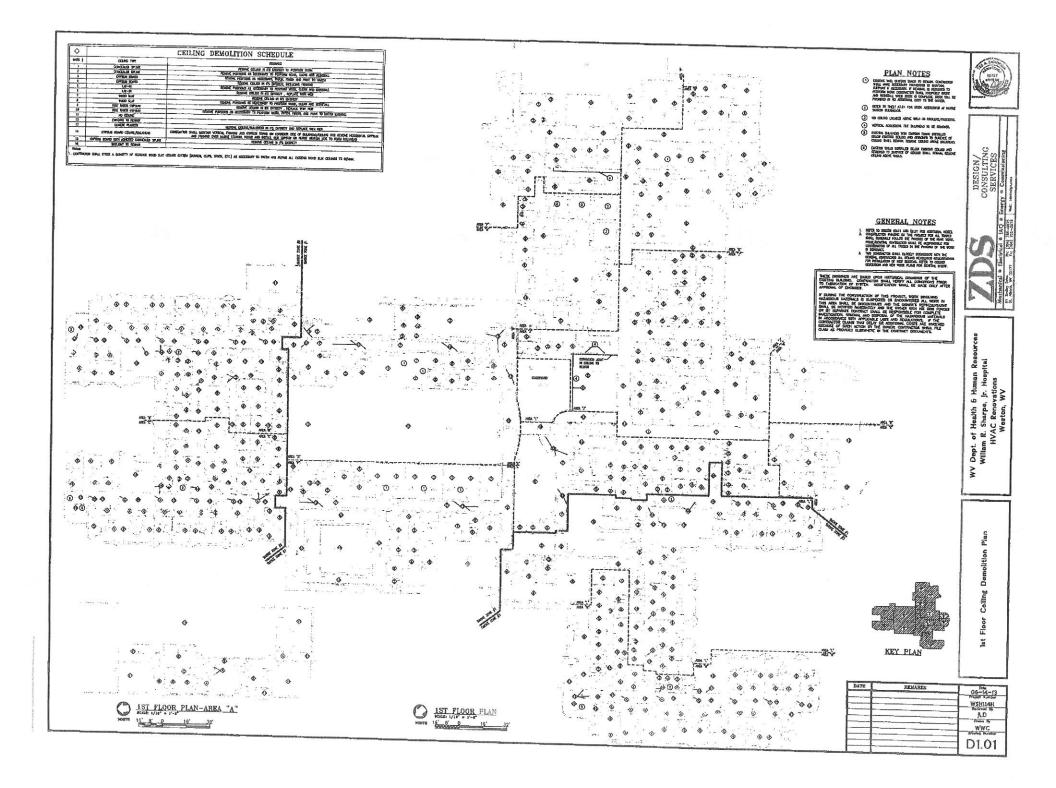
Date
14 November 2012

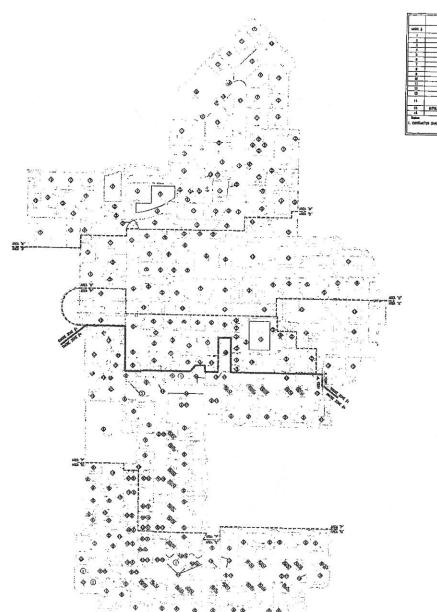
Project Title
William R. Sharme

Project Title William R. Shurpe Hospital 50 Bed Addition

238 Rhepe Hopfat Roed Wenton, W. 2442-650 Drawing Title Reference Plan-Level 1

Project Number 11-170 Drawing Number AR100





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PLAN NOTES

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DARFORS.

LEGEND

WV Dept of Heath & Humen Resour Willem R. Sherpe, Jr. Hospital HVAC Renovations Weston, WV

Demolition Plan Celling 2nd Floor



KEY PLAN

	THESE COMMONS ARE SHEED UPON HEROSICAL DAMBURS OF THE DESTRICT STATUS SALL VETET ALL CONDITIONS PRIOR TO FARMED HER LADE ONLY AFTER APPROVIL OF EMBERGY. MODIFICATION DAVIL OF LADE ONLY AFTER APPROVIL OF EMBERGY.
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DATE	REMARKS	06-14-13 Preject Aumber
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CERTIFICATIONAND SIGNATURE PAGE

By signing below, or submitting documentation through wvOASIS, I certify that I have reviewed this Solicitation in its entirety; understand the requirements, terms and conditions, and other information contained herein; that I am submitting this bid, offer or proposal for review and consideration; that I am authorized by the vendor to execute and submit this bid, offer, or proposal, or any documents related thereto on vendor's behalf; that I am authorized to bind the vendor in a contractual relationship; and that to the best of my knowledge, the vendor has properly registered with any State agency that may require registration.

Electric INC

(Authorized Signature) (Representative Name, Title)

304-984-0123 304-984-0124 10-29-14 (Phone Number) (Fax Number) (Date)

ADDENDUM ACKNOWLEDGEMENT FORM SOLICITATION NO.: WSH1500000003

Instructions: Please acknowledge receipt of all addenda issued with this solicitation by completing this addendum acknowledgment form. Check the box next to each addendum received and sign below. Failure to acknowledge addenda may result in bid disqualification.

Acknowledgment: I hereby acknowledge receipt of the following addenda and have made the necessary revisions to my proposal, plans and/or specification, etc.

Addendum Numbers Received:			
(Check the box next to each addendum	received	d)	
Addendum No. 1]]	Addendum No. 6
[] Addendum No. 2	[]	Addendum No. 7
[] Addendum No. 3	[]	Addendum No. 8
[] Addendum No. 4	[]	Addendum No. 9
[] Addendum No. 5	[]	Addendum No. 10
I understand that failure to confirm the refurther understand that any verbal repres	eceipt or	f ad	denda may be cause for rejection of this bid. I
discussion held between Vendor's repres	entative	es a	nd any state personnel is not binding. Only the fications by an official addendum is binding.

NOTE: This addendum acknowledgement should be submitted with the bid to expedite document processing.

Authorized Signature

Date

ADDITIONAL TERMS AND CONDITIONS (Construction Contracts Only)

1. CONTRACTOR'S LICENSE: West Virginia Code § 21-11-2 requires that all persons desiring to perform contracting work in this state be licensed. The West Virginia Contractors Licensing Board is empowered to issue the contractor's license. Applications for a contractor's license may be made by contacting the West Virginia Division of Labor. West Virginia Code § 21-11-11 requires any prospective Vendor to include the contractor's license number on its bid. Failure to include a contractor's license number on the bid shall result in Vendor's bid being disqualified. Vendors should include a contractor's license number in the space provided below.

Contractor's Name: Burdotte Electric Tive

Contractor's License No. WV 034524

The apparent successful Vendor must furnish a copy of its contractor's license prior to the issuance of a Award Document.

- 2. DRUG-FREE WORKPLACE AFFIDAVIT: W. Va. Code § 21-1D-5 provides that any solicitation for a public improvement contract requires each Vendor that submits a bid for the work to submit at the same time an affidavit that the Vendor has a written plan for a drug-free workplace policy. To comply with this law, Vendor must either complete the enclosed drug-free workplace affidavit and submit the same with its bid or complete a similar affidavit that fulfills all of the requirements of the applicable code. Failure to submit the signed and notarized drug-free workplace affidavit or a similar affidavit that fully complies with the requirements of the applicable code, with the bid shall result in disqualification of Vendor's bid. Pursuant to W. Va. Code 21-1D-2(b) and (k), this provision does not apply to public improvement contracts the value of which is \$100,000 or less or temporary or emergency repairs.
 - 2.1.DRUG-FREE WORKPLACE POLICY: Pursuant to W. Va. Code § 21-1D-4, Vendor and its subcontractors must implement and maintain a written drug-free workplace policy that complies with said article. The awarding public authority shall cancel this contract if: (1) Vendor fails to implement and maintain a written drug-free workplace policy described in the preceding paragraph, (2) Vendor fails to provide information regarding implementation of its drug-free workplace policy at the request of the public authority; or (3) Vendor provides to the public authority false information regarding the contractor's drug-free workplace policy. Pursuant to W. Va. Code 21-1D-2(b) and (k), this provision does not apply to public improvement contracts the value of which is \$100,000 or less or temporary or emergency repairs.
- 3. DRUG FREE WORKPLACE REPORT: Pursuant to W. Va. Code § 21-1D-7b, no less than once per year, or upon completion of the project, every contractor shall provide a certified report to the public authority which let the contract. For contracts over \$25,000, the

public authority shall be the West Virginia Purchasing Division. For contracts of \$25,000 or less, the public authority shall be the agency issuing the contract. The report shall include:

- (1) Information to show that the education and training service to the requirements of West Virginia Code § 21-1D-5 was provided;
- (2) The name of the laboratory certified by the United States Department of Health and Human Services or its successor that performs the drug tests;
- (3) The average number of employees in connection with the construction on the public improvement;
- (4) Drug test results for the following categories including the number of positive tests and the number of negative tests: (A) Pre-employment and new hires; (B) Reasonable suspicion; (C) Post-accident; and (D) Random.

Vendor should utilize the attached Certified Drug Free Workplace Report Coversheet when submitting the report required hereunder. Pursuant to W. Va. Code 21-1D-2(b) and (k), this provision does not apply to public improvement contracts the value of which is \$100,000 or less or temporary or emergency repairs.

- 4. AIA DOCUMENTS: All construction contracts that will be completed in conjunction with architectural services procured under Chapter 5G of the West Virginia Code will be governed by the AIA A101-2007 and A201-2007 or the A107-2007 documents, as amended by the Supplementary Conditions for the State of West Virginia, in addition to the terms and conditions contained herein.
- 5. SUBCONTRACTOR LIST SUBMISSION: In accordance with W. Va. Code § 5-22-1, The apparent low bidder on a contract for the construction, alteration, decoration, painting or improvement of a new or existing building or structure valued at more than \$250,000.00 shall submit a list of all subcontractors who will perform more than \$25,000.00 of work on the project including labor and materials. This provision shall not apply to any other construction projects, such as highway, mine reclamation, water or sewer projects. Additionally, if no subcontractors who will perform more than \$25,000.00 of work are to be used to complete the project, it will be noted on the subcontractor list.
 - a. Required Information. The subcontractor list shall contain the following information:
 - i. Bidder's name
 - ii. Name of each subcontractor
 - iii. License numbers as required by W. Va. Code § 21-11-1 et. seq.
 - iv. Notation that no subcontractor will be used to perform more than \$25,000.00 of work, when applicable
 - b. Submission. The completed subcontractor list shall be provided to the Purchasing Division within one business day of the opening of bids for review. Failure to submit the subcontractor

list within one business day after the deadline for submitting bids shall result in disqualification of the bid.

- c. Substitution of Subcontractor. Written approval must be obtained from the State Spending Unit before any subcontractor substitution is permitted. Substitutions are not permitted unless:
 - i. The subcontractor listed in the original bid has filed for bankruptcy;
 - ii. The subcontractor in the original bid has been debarred or suspended; or
 - iii. The contractor certifies in writing that the subcontractor listed in the original bill fails, is unable, or refuses to perform his subcontract.
- 6. GREEN BUILDINGS MINIMUM ENERGY STANDARDS: In accordance with § 22-29-4, all new building construction projects of public agencies that have not entered the schematic design phase prior to July 1, 2012, or any building construction project receiving state grant funds and appropriations, including public schools, that have not entered the schematic design phase prior to July 1, 2012, shall be designed and constructed complying with the ICC International Energy Conservation Code, adopted by the State Fire Commission, and the ANSI/ASHRAE/IESNA Standard 90.1-2007: Provided, That if any construction project has a commitment of federal funds to pay for a portion of such project, this provision shall only apply to the extent such standards are consistent with the federal standards.

SPECIFICATIONS

- 1. PURPOSE AND SCOPE: The West Virginia Purchasing Division is soliciting bids on behalf of the West Virginia Department of Health and Human Resources (WVDHHR), the Bureau of Behavioral Health and Health Facilities (BHHF), and William R. Sharpe, Jr. Hospital to establish a contract for the purchase and complete installation of a closed circuit television (CCTV) system for William R. Sharpe, Jr. Hospital and the Transitional Living Facility located in Weston, WV.
- 2. **DEFINITIONS:** The terms listed below shall have the meanings assigned to them below. Additional definitions can be found in section 2 of the General Terms and Conditions.
 - 2.1 "Contract Services" means the to provide all labor, material, equipment and related incidentals needed for the provision and complete installation of a closed circuit television system at William R. Sharpe, Jr. Hospital and the Transitional Living Facility.
 - 2.2 "CRFQ" means the official request for quotation published by the Purchasing Division.
 - 2.3 "VSS" represents Vendor Self Service meaning the item upon which the Vendor should list their proposed price for the contract services.
 - 2.4 "CCTV" Close Circuit Television is a TV system in which signals are not publicly distributed but monitored, primarily for surveillance and security purposes.
- 3. QUALIFICATIONS: Vendor shall have the following minimum qualifications:
 - 3.1. The Vendor shall be a registered vendor with the State of West Virginia and shall meet all applicable regulations. The Contractor shall be a firm normally employed in the low voltage and video cabling industry.
 - 3.2. The Vendor must be certified by the manufacturer of the products, adhere to the engineering, installation and testing procedures and utilize the authorized manufacturer components and distribution channels.
 - 3.3. The Vendor shall be certified by the manufacturing company in all aspects of design, installation and testing of the products described herein.
 - 3.4. All certifications (affidavit, list of job locations with location name, addresses, references, certifications, etc.) must be included with the bid.

- 7. PAYMENT: Agency shall pay progress payments in accordance with the phase schedule provided by the Hospital and DHHR/BHHF. Payment will be made at the completion of each phase as that phase of the system is functional and operable for all Contract Services performed and accepted under this Contract. Vendor shall accept payment in accordance with the payment procedures of the State of West Virginia.
- 8. TRAVEL: Vendor shall be responsible for all mileage and travel costs, including travel time, associated with performance of this Contract. Any anticipated mileage or travel costs may be included in the flat fee or hourly rate listed on Vendor's bid, but such costs will not be paid by the Agency separately.
- 9. FACILITIES ACCESS: Performance of Contract Services may require access cards and/or keys to gain entrance to Agency's facilities. In the event that access cards and/or keys are required:
 - 9.1. Vendor must identify principal service personnel which will be issued access cards and/or keys to perform service.
 - 9.2. Vendor will be responsible for controlling cards and keys and will pay replacement fee, if the cards or keys become lost or stolen.
 - 9.3. Vendor shall notify Agency immediately of any lost, stolen, or missing card or key.
 - 9.4. Anyone performing under this Contract will be subject to Agency's security protocol and procedures.
 - 9.5. Vendor shall inform all staff of Agency's security protocol and procedures.

- 4.1.7.2 The vendor will be responsible to coordinate with West Virginia Office of Technology (WVOT) on acquiring network connections as well as any network configuration information such as IP numbers that will be required to connect NVR's to the owner's network.
- **4.1.7.3** The vendor shall break the facilities into zones and establish the margin lines between the zones.
- 4.1.7.4 Keep area of construction clean and free from debris during installation.

4.1.8 One (1) year materials and labor warranty

4.1.8.1 One year materials and labor warranty on entire CCTV system.

5. CONTRACT AWARD:

- 5.1 Contract Award: The Contract is intended to provide Agency with a purchase price for the Contract Services. The Contract shall be awarded to the Vendor that provides the Contract Services meeting the required specifications for the lowest overall total cost.
- 5.2 Pricing: Vendor should complete their bid by providing a Unit Price for Commodity Lines on the Request for Quotation. If responding to the Request for Quotation on paper, vendors should also provide a Total Price for each Commodity line by multiplying their bid Unit Price by the listed Quantity for each line. Vendor should provide bids for all commodity lines, as failure to do so may result in Vendor's bid being disqualified.

Vendor should electronically enter the information into the Pricing Pages through wvOASIS, if available, or as an electronic document.

(Note: there is no separate, electronic Pricing Pages for this solicitation. Vendors responding on paper should use the printed Request for Quotation document.)

6. PERFORMANCE: Vendor and Agency shall agree upon a schedule for performance of Contract Services and Contract Services Deliverables, unless such a schedule is already included herein by Agency. In the event that this Contract is designated as an open-end contract, Vendor shall perform in accordance with the release orders that may be issued against this Contract.

- 4.1.3.11 The Vendor must provide NVRs that must be able to communicate with non-proprietary cameras (see 4.1.2.5).
- **4.1.3.12** The Vendor must provide NVRs that must have a minimum of a 50TB storage.
- **4.1.3.13** The Vendor must provide NVRs viewing software that shall be able to activate video recording by motion detection with a minimum frame rate of fifteen (15) frames per second.

4.1.4 Eleven (11) Desktop Computer with Monitor Stations

- 4.1.4.1 The Vendor must provide desktop computers with monitor stations must be compatible with Windows 7 operating systems. 9 of which will be placed at the nursing stations through the hospital (1 per station), 1 at the main switchboard, 1 at the TLF office.
- 4.1.4.2 Monitor must be a nineteen (19) inch monitor.

4.1.5 Network Switches

4.1.5.1 Network Switches must be 24 port switch with power over Ethernet (PoE), 1 gigabit (10/100/1000). Must provide enough 24 port/PoE network switches to accommodate the appropriate length of cabling involved to have the system functional and operable at maximum performance.

4.1.6 Networking

- 4.1.6.1 The Vendor must provide all miscellaneous materials such as cabling, power supplies, and other technical components to have the CCTV system functional and operable.
- 4.1.6.2 The closed circuit television system shall not depend on the owner's network unless specifically indicated on plans or specifications.

4.1.7 Labor

4.1.7.1 The Vendor must provide all labor, equipment, and related components involved to install the CCTV and have the system functional and operable.

4.1.2.10 The Vendor must provide outdoor IP cameras that must have a fixed lens (2.8 - 86 degrees).

4.1.3 Two (2) Network Video Recorder(s) (NVRs)

- **4.1.3.1** The Vendor must provide NVRs that must be able to accommodate the total of one hundred twenty nine (129) IP cameras.
- 4.1.3.2 The Vendor must provide NVRs that must include viewing software.
- **4.1.3.3** The Vendor must provide NVRs that must be compatible with Windows 7 operating systems.
- **4.1.3.4** The Vendor must provide NVR software that must be capable of restricting viewing access to certain cameras.
- **4.1.3.5** The Vendor must provide NVR software that must be capable of restricting controls of the entire system at various workstations.
- **4.1.3.6** The Vendor must provide NVRs and software that must be able to communicate with five (5) existing workstations that are connected to the owner's network Chief Executive Officer's workstation, Assistant Chief Executive Officer's workstation, Chief Financial Officer's workstation, Security Director's workstation, TLF Director's workstation.
- 4.1.3.7 The Vendor must program the NVR viewing software to give complete control of all features to the following workstations: Chief Executive Officer's workstation, Assistant Chief Executive Officer's workstation, Chief Financial Officer's workstation, and Security Director's workstation.
- **4.1.3.8** The Vendor must program the NVR viewing software to be view only to the following workstations: All nursing stations, TLF Director's workstation, Switchboard workstation.
- **4.1.3.9** The Vendor must provide NVRs that must be scalable and hard drive expandable.
- **4.1.3.10** The Vendor must provide NVRs that have Enterprise level hard drives only. Enterprise level hard drives will allow the storage of data based on a 24 hour recording cycle, and they are more durable and dependable.

4.1.1.10 The Vendor must provide indoor IP cameras that must have a fixed lens (2.8 mm – 86 degrees).

4.1.2 Twelve (12) Outdoor IP Cameras

- 4.1.2.1 The Vendor must provide outdoor IP cameras that must be a minimum of three (3) megapixels 1280x720.
- **4.1.2.2** The Vendor must provide outdoor IP cameras that meet industry standard protocols concerning temperature restrictions. Outdoor camera housing must include a heater and a blower.
- 4.1.2.3 The Vendor must provide outdoor casings that meet industry standard protocols concerning the mounting of the cameras.
- **4.1.2.4** The Vendor must provide outdoor IP cameras that must be compatible with NVRs.
- **4.1.2.5** The Vendor must provide outdoor IP cameras that must be enclosed in tamper resistant casings.
- **4.1.2.6** The Vendor must provide outdoor IP cameras that must be compatible with Windows 7 operating systems.
- 4.1.2.7 The Vendor must provide outdoor IP cameras that must have multiple protocols such as, but not limited to, NTP, RTSP, RTP, TCP, UDP, IGMP, RTCP, ICMP, DHCP, ARP, SOCKS SMTP, Bonjour, UPnPTM, SNMPv1/v2c/v3(MIB-II), DNS, DynDNS, IPv4/v6, HTTP, HTTPS**, QoS Layer 3 DiffServ, FTP, CIFS/SMB
- **4.1.2.8** The Vendor must provide outdoor IP cameras that must have video compression.
- **4.1.2.9** The Vendor must provide outdoor IP cameras that must have power over internet.

4. MANDATORY REQUIREMENTS:

4.1 Mandatory Contract Services Requirements and Deliverables: Contract Services must meet or exceed the mandatory requirements listed below.

4.1.1 One Hundred Seventeen (117) Indoor IP Cameras

- **4.1.1.1** The Vendor must provide indoor IP cameras that must be a minimum of one (1) megapixel 1280x720.
- **4.1.1.2** The Vendor must provide indoor IP cameras that meet industry standard protocols concerning temperature restrictions.
- 4.1.1.3 The Vendor must provide indoor casings that meet industry standard protocols concerning the mounting of the cameras.
- **4.1.1.4** The Vendor must provide indoor IP cameras that must be compatible with NVRs.
- **4.1.1.5** The Vendor must provide indoor IP cameras that must be enclosed tamper resistant casings.
- **4.1.1.6** The Vendor must provide indoor IP cameras that must be compatible with Windows 7 operating systems.
- 4.1.1.7 The Vendor must provide indoor IP cameras that must have multiple protocols such as, but not limited to, NTP, RTSP, RTP, TCP, UDP, IGMP, RTCP, ICMP, DHCP, ARP, SOCKS SMTP, Bonjour, UPnPTM, SNMPv1/v2c/v3(MIB-II), DNS, DynDNS, IPv4/v6, HTTP, HTTPS**, QoS Layer 3 DiffServ, FTP, CIFS/SMB
- **4.1.1.8** The Vendor must provide indoor IP cameras that must have video compression.
- **4.1.1.9** The Vendor must provide indoor IP cameras that must have power over internet.

10. VENDOR DEFAULT:

- 10.1. The following shall be considered a vendor default under this Contract.
 - 10.1.1. Failure to perform Contract Services in accordance with the requirements contained herein.
 - 10.1.2. Failure to comply with other specifications and requirements contained herein.
 - 10.1.3. Failure to comply with any laws, rules, and ordinances applicable to the Contract Services provided under this Contract.
 - 10.1.4. Failure to remedy deficient performance upon request.
- 10.2. The following remedies shall be available to Agency upon default.
 - 10.2.1. Cancellation of the Contract.
 - 10.2.2. Cancellation of one or more release orders issued under this Contract.
 - 10.2.3. Any other remedies available in law or equity.

11. MISCELLANEOUS:

11.1. Contract Manager: During its performance of this Contract, Vendor must designate and maintain a primary contract manager responsible for overseeing Vendor's responsibilities under this Contract. The Contract manager must be available during normal business hours to address any customer service or other issues related to this Contract. Vendor should list its Contract manager and his or her contact information below.

Contract Manager: CRAIG CACTER

Telephone Number: (304) 941-9331

Fax Number: (304) 984-0124

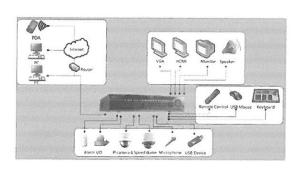
Email Address: Coarter a Durdette-electric. Com

Embedded NVR



Key Features

- 64 channel IP camera input
- · Third-party network camera supported
- Up to 5 Mega pixel (2560×1920) recording resolution
- · Simultaneous HDMI, VGA and CVBS output
- HDMI and VGA output up to 1920 x 1080P resolution
- · Dual gigabit network interfaces
- · eSATA interface for recording or archiving
- Flip open front panel for easy HDD installation
- 16-ch 4CIF synchronous playback
- JPEG picture capture and playback
- Tag video clip, search and playback by tag
- · Compatible with free Hikvision DDNS
- · Digital zoom on live view and playback



Specifications

	DS-9664NI-ST
Video / Audio input	
IP video input	64-ch
Two-way audio	1-ch, BNC (2.0 Vp-p, 1 kΩ)
Video / Audio output	
Recording resolution	5MP / 3MP / 1080P / UXGA / 720P / VGA / 4CIF
CVBS output	1-ch, BNC (1.0 Vp-p, 75 Ω) Resolution: 704 × 576 (PAL); 704 × 480 (NTSC)
HDMI output	1-ch, resolution: 1920 × 1080P / 60Hz, 1600 × 1200 / 60Hz, 1280 × 1024 / 60Hz, 1024 × 768 / 60Hz
VGA output	1-ch, resolution: 1920 × 1080P / 60Hz, 1600 × 1200 / 60Hz, 1280 × 1024 / 60Hz, 1024 × 768 / 60Hz
Audio output	2-ch, BNC (Linear, 600 Ω)
Playback resolution	5MP / 3MP / 1080P / UXGA / 720P / VGA / 4CIF
Synchronous playback	16-ch 4CIF
Storage	
SATA	8 SATA interfaces
eSATA	1 eSATA interface
Capacity	Up to 4TB capacity for each disk
External interface	
Dual network interface	10M / 100M / 1000M self-adaptive Ethernet interface, dual IP, load balancing, network redundancy
Network bandwidth	Up to 160Mbps input, 160Mbps output, up to 128 network streams
Serial interfaces	1 RS-232, 1 RS-485 for PTZ control, 1 RS-485 for keyboard
JSB interface	2 x USB2.0
Alarm in	16
Alarm out	4
General	
Power supply	100~240 VAC, 6.3A, 50~60Hz
Consumption	≤45W
Working temperature	-10°C ~ +55°C (14 °F ~ 131 °F)
Working humidity	10% ~ 90%
Chassis	19-inch rack mountable 2U chassis
imensions (W x D x H)	445 × 470 × 90 mm (17.52" ×18.5"× 3.54")
Veight	≤ 8 kg (17.64 lb) (without hard disk or DVD-R/W)

Rear Panel of DS-9664NI-ST



- 1. Video out
- 2. Audio out
- 3. Line in
- 4.RS-232 serial interface
- 5. VGA interface
- 6.HDMI interface
- 7.eSATA interface
- 8.LAN1, LAN2 network interface
- 9.RS-485 termination dip switch
- 10.RS-485 serial interface, keyboard interface, alarm in, alarm out
- 11.GND
- 12.100~240 VAC power input
- 13.Power switch

DS-2CD2512F-I (W)(S) 1.3MP Mini Dome Network Camera

1/3" progressive scan CMOS 0.028 lux@F2.0, AGC on

4mm@F2.0, angle of view: 73.1° (4mm)

Pan: ±30°, tilt: 0~75°, rotation: 0~360°

0 lux with IR

-I: ICR

3D DNR

Digital WDR

H.264 / MJPEG

Main profile

Yes, zone configurable

1/30s ~ 1/100.000s

(2.8mm, 6mm optional)

Image sensor

Shutter time

Lens mount Day & night

Adjustment angle

Digital noise reduction

Backlight compensation

Wide dynamic range

Video compression

H.264 compression profile

Lens

Min. illumination



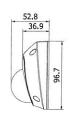


Key features

- · Up to 1.3 megapixel (1280 x 960) resolution
- · HD real-time video
- IR LEDs (up to 10m)
- Built-in microphone & speaker
- Support on-board storage (up to 64GB)
- IP66
- -S: Audio, Alarm I/O
- -W: Wi-Fi

Dimensions







Unit: mn

Accessories

Notes: * CPM and WML need PC120 cap for installation.
* CM corner and PM pole mount are compatible with WML



(Camera Ceiling Pendant Mount)



WML

(Long Wall Mount, junction box)





PC120 (120mm Pendant Cap)

Available models

DS-2CD2512F-I, DS-2CD2512F-IWS *-W: Wi-Fi

Bit rate 32 Kbps ~ 16 Mbps Audio compression G.711 / G.726 Audio bit rate 64 Kbps (G.711) / 16 Kbps (G.726) Max. image resolution 1280 x 960 60Hz: 30fps (1280 × 960), 30fps (1280 x 720), 30fps (704 x 576), Frame rate 30fps (640 x 480) Saturation, brightness, contrast adjustable through client software or web browser Image settings Network storage NAS Motion detection, tampering alarm, network disconnect, IP address conflict, storage exception, Alarm trigger TCP/IP, ICMP, HTTP, HTTPS, FTP, DHCP, DNS, DDNS, RTP, RTSP, RTCP, PPPoE, NTP, **Protocols** UPnP, SMTP, SNMP, IGMP, 802.1X, QoS, IPv6, Bonjour System compatibility ONVIF, PSIA, CGI General functionalities Flickerless, dual stream, heartbeat, mirror, user authentication, video mask, watermark Communication interface | 1 RJ45 10M / 100M ethernet port On-board storage Built-in Micro SD/SDHC/SDXC card slot, up to 64 GB Alarm interface Audio interface -S: 1/1 Wi-Fi standard IEEE802.11b/g/n Frequency range 2.4 GHz ~ 2.4835 GHz Communication bandwidth Support 20/40 MHz 802.11b: CCK, QPSK, BPSK **Protocols** 802.11g/n: OFDM Security 64/128-bit WEP, WPA/WPA2, WPA-PSK/WPA2-PSK, WPS Transmit output power 11b: 17±1.5dBm @ 11Mbps; 11g: 14±1.5dBm @ 54Mbps; 11n: 12.5±1.5dBm Transfer rate 11b: -90dBm @ 11Mbps (Typical); 11g: -75dBm @ 54Mpbs (Typical); 11n: -74dBm (Typical) Outdoor: up to 200 meters; Indoor: up to 50 meters. Transmission range * It varies depending on actual working environment. -30 $^{\circ}$ C \sim 60 $^{\circ}$ C (-22 $^{\circ}$ F \sim 140 $^{\circ}$ F), humidity 95% or less (non-condensing) Operating conditions Power supply DC12V ± 10%, PoE (802.3af) Max. 5W Power consumption Ingress protection level **IP66** Impact protection IEC60068-2-75Eh, 50J; EN50102, up to IK08 Up to 10m IR range Dimensions (mm) 99.9 x 97.5 x 56.5 Weight

DS-2CD4332FWD-IZHS 3MP WDR Outdoor Dome Network Camera















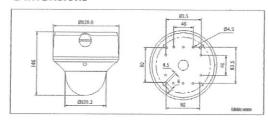




Key features

- Up to 2048 x 1536 high resolution
- Full HD1080p video
- Smart Codec
- 120dB WDR, 3D DNR
- Triple streams
- On-board storage, up to 64GB
- · Smart Focus: Motorized VF lens (-Z)
- Smart VQD
- Smart Facial Detection
- Intrusion Detection
- · Built-in heater(-H)
- Defog
- EIS (Electronic Image Stabilization)

Dimensions



Available models

DS-2CD4332FWD-IZHS

- * -Z: Motorized VF lens
- * -S: 1-ch audio I/O, 1-ch alarm I/O and 1-ch RS-485 interface
- * -H: Smart Heater

	DS-2CD4332FWD-IZHS
Camera	
Image sensor	1/3" progressive scan CMOS
Min. illumination	0.14 lux@F1.4. AGC on, 0 lux with IR
Shutter time	1s ~ 1/100,000s
Slow shutter	Yes
Lens	2.8 ~ 12mm @F1.4, angle of view: 91.2° ~ 28.3° (-Z: motorized VF lens)
Lens mount	©14
Angle adjustment	Pan: 0° ~ 355°, tilt: 0° ~ 75°, rotation: 0° ~ 355°
Auto iris	DC drive
Day & night	ICR (Auto/Schedule/Alarm Trigger)
Digital noise reduction	3D DNR
Wide dynamic range	120dR WDR
Compression standard	12000 11011
Video compression	H.264 / MPEG4 / M.IPEG
H.264 codec profile	
Video bit rate	Baseline profile / main profile / high profile 32 Kbps ~ 16 Mbps
Audio compression	G.711 / G.726 / MP2L2 *only for -S model
Audio compression Audio bit rate	
Audio dil rale Image	64Kbps (G.711) / 16Kbps (G.726) *only for -S model
Max. resolution	2049 - 4526
Frame rate	2048 x 1536
	60 Hz: 20fps (2048 x 1536), 30fps (1920 x 1080), 30fps (1280 x 720)
3rd stream	Independent setting, up to: 60Hz: 20fps (2048 x 15360)
mage settings	Rotate mode, saturation, brightness, contrast, grayscale adjustable through client software or web browser
BLC	Yes, zone configurable
Defog	Yes
EIS	Yes
Picture overlay	128 x 128, BMP 24bit, zone configurable
ROI	Yes, up to 4 configurable areas.
Vetwork	
Network storage	NAS
Alarm trigger	Intrusion detection, Defocus detection, Motion detection, Face detection, Dynamic analysis, Tampering alarm, Network disconnect, IP address conflict, Storage exception
rotocols	TCP/IP, ICMP, HTTP, HTTPS, FTP, DHCP, DNS, DDNS, RTP, RTSP, RTCP, PPPoE, NTP, UPnP, SMTP, SNMP, IGMP, 802.1X, QoS, IPv6, Bonjour
Security	User authentication, watermark, IP address filtering, anonymous access, reset
System compatibility	ONVIF, PSIA, CGI
On-board storage	Built-in Micro SD/SDHC/SDXC slot, up to 64 GB
nterface	
Communication interface	1 RJ45 10M / 100M ethernet port
/ideo Output	1 Vp-p composite output (75 Ω/RCA, for lens adjustment when installation)
On-board storage	Micro SD/SDXC card slot, up to 64GB
General	A series and all the series
perating conditions	-30°C ~ 60°C (-22°F ~ 140°F), humidity 95% or less (non-condensing)
- Po-mailing working to 10	-H: -40°C ~ 60°C (-40°F ~ 140°F), with smart heater on
ower supply	24 VAC ± 10%, PoE (802.3af)
ower consumption	Max. 12W ; -Z/-H: Max. 13W
R range	Up to 30m
gress protection	IP66
npact protection	IEC60068-2-75Eh, 50J; EN50102, up to IK10
imensions	Φ 159.8 × 146 mm (Φ 6.29" × 5.75")
leight .	2100 g (4.62 lbs)

Accessories

Notes: * CPM and WML need PC130 cap for installation.
* CM comer and PM pole mount are competitive with WML.



(Carnera Ceiling Pendant Mount)





(160mm Cap)