

## INVITATION TO TENDER

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*Please send email and hard copies of this quotation.*

**Location of System** Atlantic Hideaway  
297 NE 6<sup>th</sup> Ave,  
Delray Beach, FL 33483.

**Tender Number** 2031

Please supply a quotation to the following:

**Contact:** Mr. Andrew Sones

**Organisation:** Atlantic Hideaway

**Address:** 335 E.Linton Blvd, Suite 2135,  
Delray Beach, Florida, FL 33483.

**Phone Numbers:** (908) 370 9111

**Email Address:** andysones@gmail.com

The tender is to arrive by ###

Three companies will be tendering.

A set of plans is attached / will follow for your records.

Wishing you well with this project.

Robyn Sones  
The CCTV Advisory Service

# EQUIPMENT TO BE USED

Tender Companies are to construct their quotations using the following equipment.

	<b>Hikvision HD Bullet Cameras</b>	
1	HIKVision Darkfighter 2MP IR DF Bullet Camera, 1/2.8" Progressive CMOS, 50m IR 2.8-12mm	DS-2CD4A26FW D-IZHS
1	HIKVision 4MP bullet network camera, 1/3" Progressive CMOS, ICR, 0.7lux/F1.2 AGC on, 0 lux with IR, 2.8-12mm, 3D DNR, BLC, Auto iris, 2 Year Warranty	DS-2CD2642FW D-I
	<b>Hikvision HD Bullet Accessories</b>	
1	HIKVision back box for DS-2CD2232-IS, DS-2CD2T22-IS, DS-2CD2T42WD-IS, DS-2CD2622FWD-I, DS-2CD2642FWD-I, DS-2CD2642FWD-IS, 2 Year Warranty	DS-1260ZJ
1	Back box for DS-2CD4A25WDF-IZHS, DS-2CD4A26FWD-IZHS, DS-2CD4A65F-IZS & DS-2CD4A85F-IZS	DS-1280ZJ-S
	<b>Hikvision 4.0 Megapixel H.264 HD Dome Cameras</b>	
5	HIKVision 4MP AV IR Dome, 30m IR range, 12VDC/PoE, 4mm 2048x1536	DS-2CD2142FW D-IS
	<b>Hikvision H.264 HD Dome Camera Accessories</b>	
5	HIKVision back box for DS-2CD21X2 series dome	DS-1280ZJ-DM18
	<b>Hikvision RECORDING &amp; SERVERS</b>	
1	HIKVision 16ch NVR, 4K 160M bandwidth, 16 port PoE switch 8 TB	DS-7716NI-I4-16P-8TB
1	Internet Router	
	<b>COLOUR MONITORS</b>	
1	22" iiyama ProLite Protected HD LED Monitor	P2252HS-B1
	<b>MONITOR ACCESSORIES</b>	
1	Wall Bracket LCD Monitor Tilt & Turn up to 6kg	VESAP&T
	<b>CCTV SIGNAL CABLES</b>	
	1110 feet of Shielded External Cat 6	Cat 6 Shielded/25
1	1.5m HDMI cable	112.080UK
	<b>CONTAINMENT</b>	
3	2"X2" Plastic Trunking 10' Lengths 15 Coax	MMT6
	500 feet Plastic Conduit 1.5"	
	<b>INTERNAL CABINETS/BOXES</b>	
1	Excel 9u 500mm Deep Wall Box Solid Steel Door	
1	2u Cantilever shelf 400mm Deep? 10kg Max	2U400CSB

1	Fan Unit - 2 Fans	540-302
1	Excel 4-Way Power Strip Horizontal	D13-4H-EXL
<b>ADDITIONAL COSTS</b>		
1	Basic Manuals	Basic Manuals

It is the tender company's responsibility to ensure that quantities are correct as based upon the following specification.

## Method Statement for North Atlantic Hideaway

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A method statement to install a CCTV system for North Atlantic Hideaway, at contractually agreed areas of the site.

### ARRIVAL ON SITE

The engineer will arrive on site at the pre appointed time and make known his presence to the client or his agent and ask to be made aware of any hazards or restrictions on the premises/site. The engineer will conduct his own risk assessment if hazards are found during his visit to site, and make his Manager aware of his findings.

### PRE INSTALLATION INSPECTION

The engineer will verify with the client or his agent that the current specification is to the requirements of the client, he will also ascertain if there are any changes required to the specification due to changes in the fabric, usage or layout of the premises since the original specification was prepared. The engineer will also ensure that the equipment to be installed is still suitable for the proposed environment.

Any minor changes will be discussed with the client or his agent and an engineering docket stating all deviations from the original specifications will be completed and presented for signing by customer or his agent before any works are commenced.

A copy of the signed docket will be given to the client or his agent for their records.

Major changes of the specification will be referred to the engineer's Installation Manager and through him to The CCTV Advisory Service.

## **SAFETY**

The installation will be undertaken using standard hand tools including battery and 110v equipment. Throughout the installation the engineer will keep his tools and materials in a safe and responsible manner using personal safety equipment as and where required and placing warning signs or barriers where there is a risk to other people. All working at height will be within the constraints laid down in the installation company's Health & Safety Policy. The engineer will remove all waste materials from the site.

## **CABLE INSTALLATION**

All cables will be installed to the current Electrical Installations code of practice and in accordance with the relevant British Standard. All cables will be adequately supported and protected as and where required. Cables will be concealed if possible unless otherwise requested by the customer.

## **EQUIPMENT INSTALLATION**

All equipment will be installed using fixings suitable for the material in order to provide mechanical strength, which will prevent movement or vibration of the installed equipment.

## **SYSTEM TESTING**

On completion the installation will be checked against the specification making sure that any deviations are recorded on engineer's dockets. All electrical tests will be completed and the results recorded on the relevant forms. All the functions of the installation will be tested and checked for compliance with the relevant standards.

## **SYSTEM HAND OVER**

The client or his agent will be shown the extent of the installation and its compliance with the agreed specification. The client or his agent will be given full training in the use of the equipment. Training will also be given to all users of the equipment.

## **LEVEL 1 RISK ASSESSMENT**

The installation engineer(s) must be aware of the following risks as well as conducting their own risk assessment when arriving on site.

There is working at heights over 2 metres.

The installer is to verify with the client if the premises are likely to contain Asbestos.

There is exposure to road traffic or site traffic.

The work may expose the general public to hazards.

The installer is to verify if are electrical hazards.

There are other work hazards at location arising from neighbouring installations or undertakings.

## SPECIFICATION

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Please ensure that the following fully represents our discussions concerning your requirements and inform us immediately if this is not the case.

### **Scope of Works**

The CCTV Advisory Service has provided in the following pages, a functional solution in compliance with the with the Purpose of System stated below.

### **Purpose of System**

Prevention and detection of crime. Apprehension of offenders.

Public and Employee Safety and Security. Specific Objectives are given for individual Areas or Cameras

For the purposes of this specification, front, rear, left and right are defined as standing at the front of, and facing the premises at the reception office.

## CAMERA 1 – Office

<b>To be positioned</b>	On the top of the apex at the front of Unit 5
<b>To View</b>	The opposite half of the front car park, the office door and entrance to left walkway. To include all persons approaching the property from the right.
<b>Camera</b>	Hikvision
<b>Model</b>	DS-2CD4A26FWD-IZH8
<b>Camera Purpose</b>	Deter and Detect unauthorised entry, criminal activity and recognise persons using the premises.
<b>Camera ID level</b>	Facial Recognition of an Unknown Person
<b>Pictures per Second</b>	25
<b>Resolution</b>	2MP                      64 Pixels per Foot
<b>Sensitivity</b>	0.002 Lux @ (F1.2, AGC ON), 0.0027 Lux @ (F1.4, AGC ON), 0 Lux with IR
<b>Lens</b>	8-32mm
<b>Bracket</b>	DS-1260ZJ-S
<b>Power supply</b>	PoE
<b>Power supply location</b>	NVR
<b>Lighting</b>	Integral
<b>Cable type &amp; length</b>	170 feet Cat 6 External
<b>Containment</b>	170 feet of 1.5" White Plastic Conduit via cameras 6 & 7

### Notes

It may be necessary to offset the camera from the wall to ensure that the gable does not obscure the picture.

## CAMERA 2 – Front Right

<b>To be positioned</b>	At a height of 5m and on the front left corner of the neighbouring property.	
<b>To View</b>	The nearest section the front car park, the office door. To include all persons approaching the property from the left.	
<b>Camera</b>	Hikvision	
<b>Model</b>	DS-2CD2642FWD-I	
<b>Camera Purpose</b>	Deter and Detect unauthorised entry, criminal activity and recognise persons using the premises.	
<b>Camera ID level</b>	Facial Recognition of an Unknown Person	
<b>Pictures per Second</b>	25	
<b>Resolution</b>	4MP	37 Pixels per Foot
<b>Sensitivity</b>	0.002 Lux @ (F1.2, AGC ON), 0.0027 Lux @ (F1.4, AGC ON), 0 Lux with IR	
<b>Lens</b>	2.8 - 12mm set at 2.8mm	
<b>Bracket</b>	DS-1260ZJ-S	
<b>Power supply</b>	PoE	
<b>Power supply location</b>	NVR	
<b>Lighting</b>	Integral	
<b>Cable type &amp; length</b>	100' Cat 6 External	
<b>Containment</b>	30' of 1.5" White Plastic Conduit + Camera 3	

### Notes

The client is responsible to provide a duct from the neighbouring property wall to the front left corner of the premises.

### **CAMERA 3 – Rear Right of External Area**

<b>To be positioned</b>	On the top front right corner of Unit 10	
<b>To View</b>	The external rear area of the property. To include all persons approaching the property from the right side and rear.	
<b>Camera</b>	Hikvision	
<b>Model</b>	DS-2CD2142FWD-IS	
<b>Camera Purpose</b>	Deter and Detect unauthorised entry, criminal activity and recognise persons using the premises.	
<b>Camera ID level</b>	Facial Recognition of an Unknown Person up 39 feet	
<b>Pictures per Second</b>	25	
<b>Resolution</b>	4MP	37 Pixels per Foot
<b>Sensitivity</b>	0.01Lux @ (F1.2, AGC ON) ,0 Lux with IR	
<b>Lens</b>	4mm	
<b>Bracket</b>	DS-1280ZJ-DM18	
<b>Power supply</b>	PoE	
<b>Power supply location</b>	NVR	
<b>Lighting</b>	Integral	
<b>Cable type &amp; length</b>	225' Cat 6 External	
<b>Containment</b>	55' of 1.5" white plastic conduit + see Camera 5	

#### **Notes**

Option A – If required to view the necessary angle a wall bracket should be installed instead of the back box. DS-1272ZJ-110



## CAMERA 4 – Rear Elevation

<b>To be positioned</b>	On the rear of Unit 9 and above the fence/gate	
<b>To View</b>	The rear of the property and car park	
<b>Camera</b>	Hikvision	
<b>Model</b>	DS-2CD2142FWD-IS	
<b>Camera Purpose</b>	Deter and Detect unauthorised entry, criminal activity and recognise persons using the premises.	
<b>Camera ID level</b>	Facial Recognition of an Unknown Person up 39 feet	
<b>Pictures per Second</b>	25	
<b>Resolution</b>	4MP	37 Pixels per Foot
<b>Sensitivity</b>	0.01Lux @ (F1.2, AGC ON) ,0 Lux with IR	
<b>Lens</b>	4mm	
<b>Bracket</b>	DS-1280ZJ-DM18	
<b>Power supply</b>	PoE	
<b>Power supply location</b>	NVR	
<b>Lighting</b>	Integral	
<b>Cable type &amp; length</b>	175' Cat 6 External	
<b>Containment</b>	See Camera 5	

### Notes

Option A – If required to view the necessary angle a wall bracket should be installed instead of the back box. DS-1272ZJ-110

## CAMERA 5 – Left Elevation

<b>To be positioned</b>	On the rear left corner of the property
<b>To View</b>	The left elevation and car park
<b>Camera</b>	Hikvision
<b>Model</b>	DS-2CD2142FWD-IS
<b>Camera Purpose</b>	Deter and Detect unauthorised entry, criminal activity and recognise persons using the premises.
<b>Camera ID level</b>	Facial Recognition of an Unknown Person up 27 feet
<b>Pictures per Second</b>	25
<b>Resolution</b>	4MP                      37 Pixels per Foot
<b>Sensitivity</b>	0.01Lux @ (F1.2, AGC ON) ,0 Lux with IR
<b>Lens</b>	2.8mm
<b>Bracket</b>	DS-1280ZJ-DM18
<b>Power supply</b>	PoE
<b>Power supply location</b>	NVR
<b>Lighting</b>	Integral
<b>Cable type &amp; length</b>	245' Cat 6 External
<b>Containment</b>	245' of 1.5" white plastic conduit via camera 4 and also for Camera 3 and 2.

### Notes

Option A – If required to view the necessary angle a wall bracket should be installed instead of the back box. DS-1272ZJ-110

## CAMERA 6 – Front Left

<b>To be positioned</b>	In the rear left corner of the central garden
<b>To View</b>	The front centre and left elevations
<b>Camera</b>	Hikvision
<b>Model</b>	DS-2CD2142FWD-IS
<b>Camera Purpose</b>	Deter and Detect unauthorised entry, criminal activity and recognise persons using the premises.
<b>Camera ID level</b>	Facial Recognition of an Unknown Person up 27 feet
<b>Pictures per Second</b>	25
<b>Resolution</b>	4MP                      37 Pixels per Foot
<b>Sensitivity</b>	0.01Lux @ (F1.2, AGC ON) ,0 Lux with IR
<b>Lens</b>	2.8mm
<b>Bracket</b>	DS-1280ZJ-DM18
<b>Power supply</b>	PoE
<b>Power supply location</b>	NVR
<b>Lighting</b>	Integral
<b>Cable type &amp; length</b>	120' Cat 6 External
<b>Containment</b>	See Camera 1

### Notes

Option A – If required to view the necessary angle a wall bracket should be installed instead of the back box. DS-1272ZJ-110

## CAMERA 7 – Front Right

<b>To be positioned</b>	In the rear right corner of the central garden	
<b>To View</b>	The front centre and right elevations	
<b>Camera</b>	Hikvision	
<b>Model</b>	DS-2CD2142FWD-IS	
<b>Camera Purpose</b>	Deter and Detect unauthorised entry, criminal activity and recognise persons using the premises.	
<b>Camera ID level</b>	Facial Recognition of an Unknown Person up 27 feet	
<b>Pictures per Second</b>	25	
<b>Resolution</b>	4MP	37 Pixels per Foot
<b>Sensitivity</b>	0.01Lux @ (F1.2, AGC ON) ,0 Lux with IR	
<b>Lens</b>	2.8mm	
<b>Bracket</b>	DS-1280ZJ-DM18	
<b>Power supply</b>	PoE	
<b>Power supply location</b>	NVR	
<b>Lighting</b>	Integral	
<b>Cable type &amp; length</b>	75' Cat 6 External	
<b>Containment</b>	See Camera 1	

### Notes

Option A – If required to view the necessary angle a wall bracket should be installed instead of the back box. DS-1272ZJ-110

## CONTROLS

<b>Network Recorder</b>	HikVision DS-7716NI-I4-16P-8TB
<b>Size of hard drive</b>	8TB
<b>Maximum Bandwidth</b>	160
<b>Max Bandwidth Used</b>	56mbps
<b>Located</b>	Within a secure Lockbox within the reception office
<b>Record rate</b>	25 Pictures per Second
<b>Record Resolution</b>	Max Available
<b>Download Writer</b>	CD/DVD
<b>Router</b>	Compatible Quality Internet Router
<b>Image Retention</b>	30 days
<b>Monitor</b>	iiyama 22"
<b>Located</b>	On wall above NVR
<b>Bracket</b>	Tilt & Turn
<b>Switch</b>	Channel Gigabit Switch
<b>Patch Leads</b>	1 x 5' HDMI cable
<b>Cabinet</b>	9u Required with fan unit, shelf, 4way rack mounted spur, and lock.
<b>Special requirements</b>	Please note that the client's own IT staff should complete linking the Network Video Recorder to the internet and should ensure that the firewall is able to protect the network if it is accessible over the internet. The system is to be linked to the internet (via a router – supplied by others) to enable the client to view the Cameras from any computer in the world with a modem/router and the correct IP address and password.

## Notes

## CONTAINMENT

30' MMT6 = Internal containment

## CLIENT NOTES

**A router will be installed to enable staff to access the system remotely. In order to operate you will need to organise a telephone line and internet connection separately from this specification.**

It is assumed that there are no hidden circumstances that may affect the installation of cabling and/or equipment that could not be seen during the system survey and ground level inspection.

We have conducted a ground level survey of your Cameras and Control Equipment but cannot be held responsible for problems which are not able to be observed or assessed without an engineering inspection or access equipment.

It is the responsibility of the client to supply a dedicated unswitched fused mains spur outlet adjacent to each item of Control Equipment.

A set of manufacturer's manuals will be supplied on completion of the contract.

## INSTALLER NOTES

**It is required that the successful tender company to undertake a pre-installation engineering assessment and report any anomalies to The CCTV Advisory Service.**

It is the responsibility of the tender company to inform the client of any permissions or permits that are required from local authorities.

All cables are to enter the building at the corner of the reception lobby and unit 1.

The client will be providing lighting and ensuring that this is not facing the cameras.

The client will be paying for a post installation inspection by The CCTV Advisory Service. If the installation is defective and a further post installation inspection is required the installation company will pay for the second and subsequent installation inspections and this will be deducted from the payment to the installation company by the client. Post installation inspections are charged at \$125 per hour (including travelling) plus travelling expenses at cost.

Cameras should be commissioned to provide Mainstream Live View at the specified resolution and frame rate. A secondary stream should be set up for providing pictures to the multi-screen view at a resolution of 4CIF and at 25 pictures per second.

The installer is to ensure that CCTV cable runs are not parallel with mains cables if closer than 8".

Cameras are being installed at a maximum height of 4.5m.

# TENDER

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- 1 HIKVision Darkfighter 2MP IR DF Bullet Camera, 1/2.8" Progressive CMOS, 50m IR 2.8-12mm
- 1 HIKVision 4MP bullet network camera, 1/3" 2.8-12mm, 3D DNR, BLC, Auto iris
- 2 HIKVision back boxes for Bullet Cameras
- 5 HIKVision 4MP AV IR Dome, 30m IR range, 12VDC/PoE, 4mm 2048x1536
- 5 HIKVision back box for DS-2CD21X2 series dome
- 1 HIKVision 16ch NVR, 4K 160M bandwidth, 16 port PoE switch 8 TB
- 1 Internet Router
- 1 22" iiyama ProLite Protected HD LED Monitor
- 1 Wall Bracket LCD Monitor Tilt & Turn up to 6kg
- 1 Excel 9u 500mm Deep Wall Box Solid Steel Door
- 1 2u Cantilever shelf 400mm Deep? 10kg Max
- 1 Fan Unit - 2 Fans
- 1 Excel 4-Way Power Strip Horizontal
- 1 Basic Manuals
- 1110' of Shielded External Cat 6
- 500' Plastic Conduit
- 1.5m HDMI patch cable
- 10' 2x2" Plastic Trunking 10' Lengths 15 Coax

Capital Investment      £ .0 The above prices are exclusive of V.A.T.

## THE ABOVE SYSTEM INCLUDES:

- 1. Complete commissioning and installation.
- 2. One year's Warranty (Parts and Labour).
- 3. Full training in use of equipment.

**THIS QUOTATION IS VALID FOR 30 DAYS**



# HOME OFFICE RECOMMENDATIONS FOR FACIAL RECOGNITION

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The recommended combination of cameras and lenses has, where stated, been calculated so that the system complies with the current Home Office Recommendations for Police Evidence and the HOSDB (Home Office Scientific Development Branch) guidelines. These guidelines evaluate, recommend and indicate the benchmark criteria for the use of CCTV systems. Camera and lens selections need to be chosen and based upon a 1.7 metre person, as recommended by the Home Office Scientific Development Branch.

The purpose of these categories is to suggest appropriate image sizes to measure when choosing a system to meet a particular requirement, rather than to define a minimum standard. It does not necessarily follow that it will be impossible to recognise or identify an individual if the image size is smaller than the 50% or 100% figures suggested. Equally, there is no guarantee that individuals will be identifiable simply because they occupy >100% of the screen. Other factors, such as lighting and angle of view will also have an influence.

Unlike Analogue CCTV, IP CCTV does not have a single size imager and therefore the recommended size of the person on the screen depends upon the resolution of image being captured. We have, therefore used the Home Office Operational Requirement Manual for CCTV to extrapolate the number of pixels per meter required to meet the Home Office recommendations.

**Home Office Scientific Development Branch guidelines are as follows: -**

***Detection – 24 pixels per meter***

***Observation – 59 pixels per meter***

***Recognition of a known person – 118 pixels per meter***

***Identification of an unknown person – 236 pixels per meter***

The images below provide an indication of the quality which can be expected from a range of pixels per meter resolutions.



Please note that if a camera fails to achieve 'Recognition of a known person' it is possible that it will be unable to be used by the police to identify a person for prosecution in a court of law. The police have stated that over 80% of the video evidence that they collect fails to meet the required standard.

For CCTV recordings to be effective in detecting and investigating crime they must be fit for purpose and easily accessible by police investigators. For digital CCTV there are 4 main areas that must be considered:

- **Quality** - are the pictures good enough?
- **Storage** - are the pictures stored appropriately?
- **Export** - can the pictures be easily exported from the system?
- **Playback** - can the pictures be easily viewed by authorised third parties?

Further information and advice on the above is available through The CCTV Advisory Service.