**EarthCam 24 MegapixelCam Model # ECCS99265 A&E Specifications**

**01.32.36 Video Monitoring and Documentation**

1. **CAMERA SPECIFICATIONS**
	1. **Contractor Contact Information**

The Contractor shall provide a Robotic High Definition Megapixel Webcam for users to remotely view the project on a secure connection via a network connection. The camera will provide a full view of the work area on the construction site.

CONTACT SYSTEM VENDOR: EarthCam Inc. / Brian Cury +1 201.488.1111

Email: WWW.EARTHCAM.NET/CONTACTUS

* 1. **Camera System for Highest Precision Monitoring and Documentation**
		+ 1. Thermostatically controlled environmentally sealed enclosure with stainless steel hardware and double locking

pan/tilt head

* + - 1. Dimensions: 7.2” W x 8.5” H x 21.125” L (18.263cm W x 21.52cm H x 53.661cm L)
			2. Industrial grade solid state embedded Linux System
			3. 24 Megapixels (6000 x 4000 pixels), Digital SLR camera with a 15.6mm x 23.6mm DX-Format CMOS Image Sensor
			4. Lens: F/3.5-F/5.6, 18mm-55mm, Optical zoom
			5. Professional photo grade glass enclosure window
			6. Nikon optics for superior image quality
			7. Auto Features: ISO, Shutter, White Balance and Focus
			8. Live streaming video preview with 1080i broadcast quality video clip capability
			9. Image sensor cleaning for dust reduction
			10. 11-point wide area autofocus system
			11. Omni-directional power indicator lamp will illuminate green
			12. Communications: 10base-T/100base-TX Ethernet, IP Addressing: Dynamic or Static
			13. 4G cellular modem
			14. 120VAC, 220-230VAC or 12VDC power
			15. Designed for EarthCam Control Center
1. **SERVICE SPECIFICATIONS**
	1. **Internet Based Online Interface**

The camera will be accessible via an internet based Software as a Service (SaaS) solution. This online interface will be managed and supported by the System Vendor. The service will be available for the term of the project and allow the viewing of live video and High Definition digital still images captured and stored of the project on both mobile and desktop platforms.

The Internet Based Online Interface shall include the following features:

* + 1. Responsive HTML5 design for cross-platform access on desktop and mobile devices
		2. Display project name and logo
		3. Multiview Screen for viewing and accessing multiple cameras
		4. Live video viewing
		5. Picture in picture capability for viewing live video and High Definition Megapixel images simultaneously
		6. Digital Pan, Tilt and Zoom capability within a High Definition image
		7. Instant live snapshot capability in addition to preset scheduled archives
		8. HDR (High Dynamic Range) imaging and additional special effects
		9. Access camera settings, ISO, white balance, metering and exposure compensation
		10. Timeline navigation system for selecting specific images and times
		11. Multifunction Image Browsing
		12. Time-lapse feature with optional time date overlay for instant time-lapse viewing, downloading and embedding
		13. Full Screen Mode for displaying complete image without any graphical frame
		14. Photo Filters and Graphical Markup Tools for detailing and creating notes with graphical overlays on images, including project title, logo and time date stamp
		15. Image Comparison Tool for comparing two images taken at different times, overlayed on top of each other
		16. Share Image Tool for saving, printing, emailing and posting to Hall of Fame
		17. Marketing Section for posting and sharing camera images with notes
		18. Social Media Integration Tools for sharing project images and notes on Facebook and Twitter
		19. Automatically generated daily/weekly project progress update email with camera image and weather
		20. Graphical Weather applet displaying local weather data with satellite and updating radar imaging
		21. Integration of maps, aerial and satellite imagery
		22. Graphical Data Management Tools showing archived and current system status of solar amperage, battery power remaining, wireless radio connectivity and device location
		23. Automatically generated Progress Reports (in PDF and PowerPoint formats) using daily, or weekly camera images with associated weather data, notes, and Client logo
	1. **Security and Management**
		1. Access to account protected by Account Security feature which includes four levels of password protection, IP address block/permission and SSL protection of user login password.
		2. The system shall capture and upload images every 15 minutes, 24 hours per day.
		3. The system shall have M2M – Machine to Machine 24/7 Support with active self-healing technology and automatic software upgrades to maintain the quality, consistency and reliability of all images.
		4. Images will be maintained on the System Vendor’s servers for reference available at all times during the life of the project and for no less than 60 days after completion. All images will be protected on servers owned and operated by the System Vendor and located in a secure area at the System Vendor’s location.
1. **CONTRACTOR REQUIREMENTS**
	1. **Jobsite Requirements**

The Contractor shall secure a nearby structure for camera mounting or provide a fixed pole (40 foot / 12 meters height recommended) and 3 inch / 8 centimeters minimum diameter as per System Vendor’s instruction. The Contractor shall supply all equipment required for safe and secure access to the camera location for technicians performing installation and maintenance services, including building access, bucket truck and/or lift. The System Vendor will consult on and provide recommendations for optimal camera placement and provide professional installation services as required.

* 1. **Camera Maintenance**

The Contractor shall provide all service and maintenance, including cleaning, of the camera system throughout the life of the project including making appropriate arrangements for camera to remain in operation up to and through finalization of all structural, landscaping and “completed state” condition necessary for beginning-to-end time-lapse record.

1. **DELIVERABLES**
	1. **Public Website**

The System Vendor shall provide custom public website development. Website shall be separate from the Online Interface, match the look and colors of the project’s website, and be delivered as embed code or standalone web page. Additional features include Facebook and Twitter integration, full screen mode, image comparison, weather, multiple logos, graphical background image and project description.

* 1. **End of Project Time-Lapse Movie**

The System Vendor shall provide time-lapse movie(s) at the end of the project. Time-lapses shall be professionally edited by a video editor using image stabilization software. The movie will start with a graphic, incorporating project title, date and logo. Periods of bad weather or inactivity shall be removed to produce a compelling and consistent movie. A machine edited movie will not be acceptable.