**EarthCam 360° VR Site Tour Camera Kit Model # ECCS99971 A&E Specifications**

**01 32 33 Photographic Documentation:**

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

The Contractor shall provide comprehensive photographic documentation of existing conditions, construction progress and of Pre & Post Inspection milestones on a daily or as needed basis. The images will be mapped to a site plan of the project and be available to view online as a managed service provided by the System Vendor.

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

Email: WWW.EARTHCAM.NET/CONTACTUS

* 1. **Camera System for Photographic Documentation**
     + 1. 14MP (5376 x 2688 pixels) Dual CMOS 1/2.3 Image Sensor’s
       2. 4K H264 Movie Recording, 4x Internal Microphone for Spatial Audio
       3. Ability to create short-term time-lapse creation
       4. 4K Wireless Livestream Capabilities, 30 fps
       5. Focus Free Fisheye f/2.0 Lens
       6. Auto, Manual and Shutter Priority Shooting modes
       7. ISO (Auto, 100-1600), Automatic/Custom White balance, +-2 EV Exposure Compensation
       8. 12” Micro USB 2.0 Cable
       9. USB Rechargeable Li-ion Battery, Battery Life typically 300 photos or 80 minutes of video
       10. Dual Communication Bluetooth & Wireless LAN
       11. Operating Temperature 32°F-104°F
       12. 66.8” 3-Leg locking base aluminum monopod, 4 sections, 40lb max capacity
       13. Aluminum Survey Pole Quick Clamp with 40 minute level vial and compass
       14. Weather resistant outdoor camera enclosure with integrated ¼”-20 Tripod Mount
       15. Designed for EarthCam Control Center - Photography Documentation

1. **SERVICE SPECIFICATIONS**
   1. **Internet Based Online Interface**

Internet Based Online Interface: The photography documentation service will be delivered as 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 High Definition digital still images captured and stored of the project via a secure password protected website.

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. Project Dashboard allows easy navigation between multiple cameras and projects
    4. VR Web View support for 360 Spherical Imagery
    5. Guided tour mode for navigation of 360 spherical images
    6. Automated generation of a path connecting all the markers
    7. Auto-play slideshow of 360 images at the click of a button – choose slideshow speed, toggle marker/floor-plan/notes overlays, loop through the end of tour
    8. Jump to different markers and images while in a guided tour – the tour resumes from the new location
    9. Navigation of 360 spherical imagery with Mini-Map of site plan and correct direction of view
    10. Electronic Indexing of images by staff, trade, date, time, location and keyword tags
    11. Navigation system for selecting specific images, dates, floor plans, photos, markers and flags
    12. Multifunction Image Browsing
    13. Upload Tool for adding site plans and photos
    14. Full Screen Mode for full screen view of site plans and images
    15. Advanced image filters
    16. Print full size images
    17. Geotagging of images
    18. Graphical Markup Tools for detailing and creating notes with graphical overlays on images
    19. Photo Management Tool for setting orientation, cropping, rotating and aligning photos
    20. Image Comparison Tool for comparing two images taken at different times, overlayed on top of each other
    21. Project Management Software integration (Aconex, Autodesk BIM 360, PlanGrid, Procore, SharePoint)
    22. 2D/3D/4D Model Integration (Autodesk Navisworks, Autodesk Revit, Bentley Synchro)
    23. Mark up images to create RFIs, Observations, and Change Events with Procore
    24. Share Image Tool for saving, printing, emailing, sending to mobile devices
    25. Social Media Integration Tools for promoting and sharing project images and notes via Facebook, Twitter and Instagram, 360 spherical image view with Facebook and YouTube 360 Video support
    26. Weather data (temperature, relative humidity, dew-point) captured with an integrated local weather sensor and attached to every 360 image
    27. Integration of Maps, aerial and satellite imagery with site plans
    28. Ability to filter images to view only a specific group of images
    29. Ability to flag images to organize and compile for reports and presentations
    30. Ability to flag images to organize and share punch list reports with three levels of urgency
    31. Ability to flag images to display automatically on public websites
    32. VR Site Tour App available for iOS and Android devices
  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. 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. **DELIVERABLES** 
   1. **End of Project**

The System Vendor at the end of the project shall provide a comprehensive package that includes all images and related data. All images shall be loaded into a searchable PDF floor plan.