



CAPABILITIES STATEMENT

Existing Conditions • Spatial Intelligence • Digital Engineering • Asset Documentation

Engineering-Grade Existing Conditions Documentation and Digital Engineering for Federal, State & Local Infrastructure

Quantum Reality Capture (QRC) provides engineering-grade existing conditions documentation, reality capture, digital engineering, and spatial intelligence services supporting federal, state, and local infrastructure programs. We transform complex facilities and infrastructure into BIM-ready models, CAD deliverables, digital twins, and actionable project intelligence that supports planning, design, construction, operations, and long-term asset management.

Core Capabilities

- **Existing Conditions Documentation.** Engineering-grade field capture using terrestrial and mobile LiDAR
- **Aerial LiDAR and Photogrammetry.** Mapping terrain, roof structures, infrastructure corridors, and large facilities.
- **BIM, CAD and Engineering Deliverables.** Revit, AutoCAD, Civil 3D, SketchUp, Navisworks.
- **Rapid Floor Plans.** CAD and PDF drawings delivered within 48 hours of scan.
- **3D Virtual Tours.** Walkthroughs enabling remote collaboration, rapid dimensioning, and real time access to existing conditions.
- **Facility and Infrastructure Documentation.** As-built verification and lifecycle data.

Differentiators

- **Integrated delivery model** that combines engineering-grade field services, digital engineering deliverables, and technology enablement through a single trusted partner.
- **Reduced field mobilizations** through integrated terrestrial, aerial, and mobile capture
- **Supports agency-owned** reality capture programs through hardware, software, training, and implementation
- **Flexible engagement model** - services, technology, or hybrid delivery
- **Project-ready deliverables** that integrate directly into owner, engineer, contractor, and asset management workflows, accelerating planning, design, construction, and lifecycle decision-making.

TECHNOLOGY ENABLEMENT

XGRIDS Authorized Reseller & Implementation Partner

■ Hardware Procurement and Deployment ■ Software Licensing Configuration and Training ■ Hybrid Services IDIQ Support

Representative Project Experience

16,000+ Seat Public Transportation Facility

Interior + Exterior LiDAR and BIM deliverables for an occupied facility in support of renovation planning with zero operational disruption.

Multi-Site Capital Planning Initiative

LiDAR scanning and rapid CAD across multiple occupied public facilities to support coordinated capital planning.

Large-Area Corridor & Site Mapping

Aerial LiDAR + photogrammetry capturing 600 acres per hour for engineering design.

CUSTOMERS WE SUPPORT

- Federal Agencies
- State DOTs
- Transit Authorities
- Airports
- Ports
- Municipal Governments
- Universities
- School Districts
- Healthcare Systems
- Prime A/E Firms
- Engineering Consultants
- Construction Managers

DELIVERY MODELS

- Prime Contractor ■ Subconsultant ■ IDIQ Support ■ Task Orders ■ On-Call Services ■ Rapid Response Mobilization

CORPORATE DATA

UEI: PM9THMDC1DV7 CAGE: 9DZZO

Status: Small Business | SAM Active | All Awards

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State of Incorporation: SC | FAA Part 107 | Insurance Available Upon Request

NAICS Codes

Primary NAICS Code
541310 — Architectural Services

Additional NAICS Codes

541330 Engineering Services
541340 Drafting Services
541350 Building Inspection Services
541360 Geophysical Surveying & Mapping
541370 Surveying & Mapping
541715 Physical, Engineering & Life Sciences R&D
541990 Other Scientific & Technical Services

Product & Service Codes

C1A2 A&E: Administrative Facilities
C1P2 A&E: Non-Building Facilities
C214 A&E: Management Engineering
C219 A&E: Other Services
R425 Engineering & Technical Support
R499 Other Professional Support
T002 Cartography Services
T008 Photogrammetry Services
T009 Aerial Photography

AVAILABLE FOR NATIONWIDE TASK-ORDER SUPPORT, SUBCONTRACTING OPPORTUNITIES, AND AGENCY-WIDE REALITY CAPTURE INITIATIVES