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Elevel Barrier				Total of Header Attachments: 1		
First Name:	Kim			Total of All Attachments: 1		
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Department of Administration Purchasing Division 2019 Washington Street East Post Office Box 50130 Charleston, WV 25305-0130

## State of West Virginia **Solicitation Response**

Proc Folder:	1425752	425752				
Solicitation Description:	Mapping Services in Southern West Virginia					
Proc Type:	Central Master A	Central Master Agreement				
Solicitation Closes		Solicitation Response	Version			
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000000182680 NV5 GEOSPATIAL INC					
Solicitation Number:	CRFQ 0313 DEP2400000042				
Total Bid:	32225	Response Date:	2024-05-24	Response Time:	15:04:47
Comments:					

FOR INFORMATION CONTACT THE E Joseph E Hager III (304) 558-2306 joseph.e.hageriii@wv.gov	UYER		
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Date Printed: May 28, 2024

Line	Comm Ln Desc	Qty	Unit Issue	Unit Price	Ln Total Or Contract Amount
6	Topographic Mapping - (Over 100 Acres)	125.00	000 ACRE	55.000000	6875.00
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## Commodity Line Comments:

#### Extended Description:

(Spec Item 3.2 & 4.2)





# **CENTRALIZED REQUEST FOR QUOTE**

MAPPING SERVICES IN SOUTHERN WEST VIRGINIA CRFQ 0313 DEP240000042



May 28, 2024

NIVI5 GEOSPATIAL

State of West Virginia Attn: Bid Clerk Dept. of Administration, Purchasing Division

#### RE: Centralized Request for Quote for State of West Virginia – Mapping Services in South West Virginia – CRFQ 0313 DEP240000042

Dear Members of the Selection Committee.

The development of detailed topographical mapping for the State of West Virginia's Southern Counties is critical in assisting the State in providing detailed construction plans and specifications. NV5 Geospatial, Inc. (NV5) is pleased to provide our submission in response to the State of West Virginia's Centralized Request for Quote for Mapping Services in West Virginia (CRFQ 0313 DEP2400000042). As one of the largest and most experienced geospatial solutions firms in North America, NV5 Geospatial offers previous experience working with the State of West Virginia, depth and breadth of relevant experience in topographic mapping for similar clients, and offices near you with local key team members, which is needed to successfully provide the County with the data collection desired.

- Relationship with the State of West Virginia Since 1992, NV5 Geospatial has held Statewide Open-End Photogrammetry Contracts with the State of West Virginia Department of Transportation. Our services include complete planning, project management, aerial photography, photo lab services, analytical triangulation, digital stereo compilation, interactive graphics (Intergraph), digital cross sections, digital files, and digital elevation modes (DEM). Basic photogrammetric services are used to aid in engineering design of heavy highway and bridge projects. These experiences have provided our Team with a strong knowledge base and understanding of your needs and specifications so that we can hit the ground running on this contract.
- Depth and Breadth of Topographic Mapping Experience NV5 Geospatial has a topographic • mapping legacy dating back to 1949. In this time, we have completed thousands of mapping projects worldwide, including throughout the State. We are a leading full-service geospatial solutions provider performing similar services to other similar state agencies such as Virginia, Vermont, Connecticut, and Maine. We have also worked with many federal agencies like USDA, USGS, USACE, and NAVFAC; local coalitions and various private clients, including those in the utility and energy sectors. These experiences have given us insight and understanding into how to successfully lead clients like the State of West Virginia through projects such as this.
- Local Offices Additionally, our Team has offices near the State of West Virginia including in Dulles, Virginia as well as Lexington, Kentucky. We have included key personnel in our Dulles office which provides the State of West Virginia with staff who can be nearby as needed throughout the duration of this contract.

NV5 is in receipt of and acknowledges Addendum 1 released on May 23, 2024. As shown in our submission, our Team has proven excellence and experience in quality mapping services. Should you have any questions or need additional information, please don't hesitate to contact our Senior Account Manager Drew Meren, at Drew.Meren@nv5.com or (703) 919.8038. We look forward to continuing to serve the State of West Virginia through this contract.

Sincerely,

Marlin R. Zork Marlin Zook | Department Director, State & Regional

NV5 Geospatial – Centralized Request for Quote for State of West Virginia – Mapping Services in South West Virginia – CRFQ 0313 DEP2400000042

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1.0 COMPANY OVERVIEW

# 1.0 Company Overview

## 1.1 NV5 Geospatial, Inc.

NV5 Geospatial is a full-service geospatial firm providing spatial data collection, generation, analysis, and integration for clients worldwide. With a topographic mapping heritage dating back to 1949, NV5 Geospatial is dedicated to embracing its legacy traits of flexibility, creativity, innovation, responsiveness, partnership, client satisfaction, and on time, first time right products, which has defined our success. NV5 Geospatial's core business is devoted to providing geospatial data acquisition and post-processing services to our clients.

NV5 Geospatial has a workforce of over 500 highly qualified geospatial experts in 11 facilities geographically dispersed across the United States, Canada, and India. Our staff includes licensed Professional Land Surveyors, ASPRS Certified Mapping Scientists, Certified Photogrammetrists, certified GIS Professionals, and certified Project Management Professionals. Our management team holds Master and Doctorate level gualifications. As a Corporation, NV5 Geospatial strives to provide a healthy work environment where our staff members are continually challenged and offered an atmosphere for professional growth and development.

NV5 Geospatial has a long history of superior mapping capabilities and outstanding geospatial solutions delivery



Figure 1. NV5 Geospatial's offices.

for our clients. We have completed projects in all 50 states and in over 30 foreign countries. We are headquartered in St. Petersburg, Florida, which also serves as one of our production facilities. Our other production facilities are in Dulles, Virginia, Anchorage, Alaska; Lexington, Kentucky; Corvallis, Oregon and Portland, Oregon. Additionally, we have offices in Sun Prairie, Wisconsin; Birmingham, Alabama, St. Louis, Missouri; Denver, Colorado; Carlsbad, California; and as far as Vancouver, BC and Bangalore, India.



# 1.2 Firm Experience

## 1.2.1 Topographic Mapping

NV5 Geospatial has a proven track record of providing quality topographic and planimetric mapping products and services on-time and within budget. Our team's commitment to the mapping and surveying industries has enabled us to adopt new technologies and offer new services, enhancing our ability to provide the most accurate and versatile mapping and information tools.

NV5 Geospatial has experience delineating and classifying a wide variety of planimetric and topographic features from aerial imagery and lidar. Our staff are proficient in feature extraction processing utilizing monoscopic (heads-up) and stereoscopic (softcopy photogrammetry) methodologies. NV5 Geospatial has expertise in planimetric and planimetric update feature extraction, surface impervious analysis, wetlands delineation, land use/land cover interpretation, benthic habitat mapping, and hydrologic research to support the National Hydrologic Dataset.

NV5 Geospatial's subsidiary, DAT/EM (www.datem.com), has developed photogrammetric hardware and software products since 1987. One specific product that DAT/EM has produced is Summit Evolution. Summit Evolution provides powerful tools for discovering and capturing 3D information from stereo data. The software includes CAD and GIS interfaces, 3D stereo vector superimposition, automated feature editing, contour generation, and many more tools. Through



Figure 2. Example of planimetric building features.



Figure 3. Example of 3D Vector Superimposition. This screenshot reveals a missing building vector.

the Capture<sup>™</sup> interface for enabled Summit products, image features from a Summit Evolution project are digitized directly into AutoCAD®, MicroStation®, ArcGIS®, or Global Mapper®.

With DAT/EM SuperImposition<sup>™</sup>, those stereo image features are overlaid on the Summit Evolution project for immediate feature verification. NV5 Geospatial will use the Summit Evolution Professional for orientation measurement, orthorectification, terrain visualization, contour generation, point translation feature collection, and DTM collection.

Mapping is performed using the DAT/EM Summit Evolution digital stereo plotter software in conjunction with Esri ArcGIS v10.x. Through its unique and customizable Capture interface, image features from a Summit Evolution project are digitized directly into an ArcGIS geodatabase. Stereo compilers will perform photo-interpretation and photogrammetric compilation of the topographic and planimetric data using the ArcGIS interface within DAT/EM Summit Evolution to create, modify, and attribute features. Attribution can be assigned on-the-fly or through predetermined domains specifying field properties and coded values provided by the State of West Virginia.



NV5 Geospatial – Centralized Request for Quote for State of West Virginia – Mapping Services in South West Virginia – CRFQ 0313 DEP2400000042

# 2.0 RELEVANT EXPERIENCE

# 2.0 Relevant Experience

## 2.1 West Virginia Experience

Since 2008, we have held contracts with the West Virginia Department of Transportation (WV DOT), executing tasks in various locations. NV5 Geospatial has performed work in all regions of West Virginia, and we are familiar with the mountainous terrain that covers a large area of the State. In addition to direct government work, NV5 Geospatial has worked with many local engineering firms doing dozens of topographic and planimetric mapping projects throughout the State. The NV5 Geospatial is recognized for delivering quality products, and we look forward to continuing to work in the State of West Virginia.

The following projects emphasize our recent experience performing similar types of work in West Virginia and the areas surrounding.

# 2.2 Similar Work

# West Virginia DOT 2024 Apple Grove Expansion Planimetric Mapping, Imagery and Lidar

# Project Location

Apple Grove, West Virginia

#### **Key Professional Services**

- Planimetric Mapping
- Aerial Imagery
- Lidar
- Surveying

NV5 Geospatial is currently working with the West Virginia DOT to provide planimetric mapping, aerial imagery and lidar services along the Ohio/West Virginia State lines. This project serves as an expansion of the areas surrounding the 2018 Apple Grove project we previously performed for the State. The entire campus area is ~20,000 acres.

For this project, we are acquiring new color aerial photography and lidar data using a digital mapping camera and a lidar sensor

mounted in fixed wing aircraft. The aerial photography will be captured at a ground sampled distance (GSD) of 7.5cm. The lidar data is being collected to yield a point density of 15 ppsm. From this aerial photography and lidar data, we are producing planimetric mapping for the output at a horizontal scale of 1"=50', aligning planimetric mapping to the 2018 delivered dataset, and processing lidar data and Bare Earth DEM, as well as color digital orthophotos at a GSD of 7.5 cm, and contours at 2.0' interval.



Figure 4. Area of Interest for imagery and lidar.



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# West Virginia DOT Teays Valley Road Widening

#### **Project Location**

Teays, West Virginia

#### **Key Professional Services**

- Planimetric Mapping
- Aerial Imagery
- Lidar
- Surveying

NV5 Geospatial is serving as a subconsultant to A. Morton Thomas to collect aerial imagery and lidar from 2023. We are also providing planimetric mapping for output at a horizontal scale of 1"=20' and a digital terrain model (DTM) with 1 foot contours.

This project consists of the development of plans and related documentation for the widening of Teays Valley Road (Putnam County Route 33). This project extends from the area of Great Teays Boulevard (CR 34/40) to approximately 0.30 mile west of the US 35

spur intersection. For the additional mapping, we will collect the topographic and planimetric mapping to the Purple extents and merge with the already delivered Red extents we delivered earlier in the year, as seen in the image below.



Figure 5. Project Area for Teays Valley Road Widening.

# Loudon County Landfill Planimetric Mapping and Imagery

#### **Project Location** Reston, Virginia

#### **Key Professional Services**

- Planimetric Mapping
- Orthoimagery

NV5 Geospatial recently provided digital imagery from high precision mapping in a fixed wing aircraft at 7.7 cm and 16 cm resolutions to Solid Waste Services, LLC. From this imagery, we produced planimetric mapping for output at a horizontal scale of 1"=100', contours at 2.0' interval, digital а а terrain model, and color orthoimagery with a pixel resolution of 0.5'.



Figure 6. Project site for the Loudon County Landfill.

# William H. Gordon Multiple Planimetric Mapping Sites in West Virginia, Virginia, and Maryland

#### Project Location

Loudon County, Virginia

#### Key Professional Services

- Planimetric Mapping
- Aerial Imagery
- Surveying

NV5 Geospatial is serving as a subconsultant to Gordon to provide topographic mapping and/or acquire digital imagery for several sites throughout West Virginia, Virginia and Maryland. This includes the Mechanictown, West Virginia site, Dulles Electric Virginia site, Ashburn Utility site, Middleburg, Virginia site, Stoneview, Virginia site, Dulles Airport Historic site and Andrews Air Force Base. Gordon is providing all ground control necessary to support our mapping process. We have provided a control layout and coordinated with

Gordon for the selection of the points.

For planimetric mapping, features are collected normally to show on 1" = 30' scale mapping as are visible and interpretable in the aerial imagery. From there, we build a digital terrain model (DTM). These DTM elements are used to construct a triangulated irregular network (TIN) surface from which 2.0' contours will be interpolated. Each project within Virginia has been designed to conform to the Model Virginia Map Accuracy Standards for 1"=30' planimetric feature collection.

# **Boys & Girls Club Planimetric Mapping and Imagery**

#### Project Location Martinsburg, West Virginia

#### **Key Professional Services**

- Planimetric Mapping
- Aerial Imagery

NV5 Geospatial served as a subconsultant to DiMagno Consulting to capture new digital imagery at 5 cm resolution. From this imagery captured, we then produced planimetric mapping for output at a horizontal scale of 1"=20', contours at 1.0' interval, as well as digital terrain models. The project area encompassed 2.3 acres

# 3.0 PROFESSIONAL QUALIFICATIONS

# 3.0 Professional Qualifications

# 3.1 Team Organization Chart

NV5 Geospatial has assigned key personnel with the experience and qualifications necessary for the State of West Virginia's Mapping Services contract. These key staff have an average of 25 years of experience and include a West Virginia Land Surveyor. Our team organizational chart is listed below. Additionally, brief resumes for each of our key personnel, which indicate relevant qualifications and experience, and registration/licensing numbers, are included on the following pages.



Figure 7. Team Organization Chart.



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## 3.2 Resumes

# Marlin Zook, PLS, CP

Marlin oversees all phases of the photogrammetric process for mapping projects including aerial triangulation, orthoimagery, planimetric mapping, feature attribution compilation, and digital edit. He is also responsible for directing the photo lab, quality control, and the survey team. Marlin's responsibilities include all inhouse project planning and coordination of digital mapping, orthoimage production, and review of final delivery items to the client. He maintains the production schedule, oversees staffing assignments, and coordinates with the project manager. He has completed Integrated Distance Learning Environment (IDLE) Training in FAA AC 150/5300-16A, -17B, and -18B. Marlin has been involved in over 700 18B AGIS projects and submittals.

#### **Project Experience**

**Aerial Photography for Photogrammetric Mapping Contract**, West Virginia Department of Transportation. NV5 Geospatial (formerly Photo Science) has held Statewide Open-End Photogrammetry Contracts with the State of West Virginia Department of Transportation since 1992. Our services include complete planning, project management, aerial photography, photo lab services, analytical triangulation, digital stereo compilation, interactive graphics (Intergraph), digital cross sections, digital files, and digital elevation modes (DEM). Basic photogrammetric services are used to aid in engineering design of heavy highway and bridge projects.

William H. Gordon Multiple Topographic Mapping Sites in West Virginia, Virginia, and Maryland. Gordon. As a Production Manager, for serving these contracts for Gordon as a subconsultant, NV5 Geospatial is providing planimetric mapping and/or acquiring digital imagery for several sites throughout West Virginia, Virginia and Maryland. This includes the Mechanictown, WV site, Dulles Electric VA site, Ashburn Utility site, Middleburg, VA site, Stoneview, VA site, Dulles Airport Historic site and Andrews Air Force Base. Gordon is providing all ground control necessary to support our

mapping process, and we are providing a control layout and are coordinating with Gordon for the selection of the points.



Project Assignment Operations Manager & Department Director

#### Education

AS, Civil Engineering, Pennsylvania State University, 1976 Certificate, FAA Integrated Distance Learning Environment (IDLE), Federal Aviation Administration, 2010

#### Registrations

ASPRS Certified Photogrammetrist Professional Land Surveyor: NC Photogrammetric Surveyor: SC Land Surveyor Photogrammetrist: VA Years of Experience 48

Years with NV5 Geospatial 48

**VDOT Statewide Survey Photogrammetry,** Subsurface Utility Design & Location Term Contract, Rice Associates/Woolpert/ATCS. Mr. Zook serves as Production Manager for these open-end contracts in which NV5 Geospatial provides aerial photography and photogrammetric mapping in support of engineering design for road and bridge improvements throughout Virginia. A total of 68 task orders have been issued under these contracts since 2008. He is responsible for all in-house production, coordination with the prime, and guality control compliance.



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# **Drew Meren, GISP**

Drew is responsible for business development efforts as it relates to geospatial state and local government programs and Architectural/Engineering firms along the eastern United States. Drew also participates in identifying new growth markets to provide NV5 Geospatial services. Prior to joining NV5 Geospatial, Drew held account management and project lead roles supporting photogrammetric mapping and geospatial data production and analysis. During which, he was primarily responsible for managing existing client relationships, providing estimates for budgeting and proposals, expand relationships with partners, and monitoring project work engagements.

#### **Project Experience**

**2024** Apple Grove Expansion Topographic Mapping, Imagery and Lidar. West Virginia Department of Transportation. NV5 Geospatial is currently working with the West Virginia DOT to provide topographic mapping, aerial imagery and lidar services along the Ohio/West Virginia State lines. This project serves as an expansion of the areas surrounding the 2018 Apple Grove project we previously performed for the State. The entire campus area is ~20,000 acres.



Project Assignment Senior Account Manager

#### Education

BS, Geography, Towson University, 2000

#### Registrations

**GISCI Certified GIS Professional** 

#### Years of Experience 24

Years with NV5 Geospatial 8

#### Aerial Photography for Photogrammetric Mapping Contract, West

Virginia Department of Transportation. NV5 Geospatial (formerly Photo Science) has held Statewide Open-End Photogrammetry Contracts with the State of West Virginia Department of Transportation since 1992. Our services include complete planning, project management, aerial photography, photo lab services, analytical triangulation, digital stereo compilation, interactive graphics (Intergraph), digital cross sections, digital files, and digital elevation modes (DEM). Basic photogrammetric services are used to aid in engineering design of heavy highway and bridge projects.

**Topographic Mapping in Marlborough, MA,** Marlborough, Massachusetts. As a prime consultant, NV5 Geospatial was tasked to acquire new 4-band (Color and CIR) aerial photography at 3-inch GSD for development of a city-wide photographic land base map. Major tasks involved with this project include acquiring aerial photography (4-Band, 3-inch pixel resolution), digital orthoimagery, new planimetric mapping and 1 ft contours. The project area was just over 22 mi<sup>2</sup> and encompassed the entire City of Marlborough. Mapping was collected at 1"=40' scale using standard photogrammetric methods with NV5 Geospatial software product line DAT/EM Summit Evolution.

Town of Chelmsford, Massachusetts Planimetric Mapping and Orthoimagery Acquisition Project, Chelmsford, MA. NV5 Geospatial provided the Town of Chelmsford with planimetric mapping, digital orthoimagery, and topographic mapping. The town is approximately 23 square miles in size and has a residential population of roughly 33,800. The goal and objective of the project was to improve the Town's impervious area data, acquire current data for the Town's GIS base map and produce Town-wide topographical maps. The final product was a comprehensive map of the features of Chelmsford. The new data collected will be used to update the current inventory which is used for evaluating properties for stormwater utility fees.



# Brian Tolley, CP, GISP

Brian has close to 30 years of experience in photogrammetry, 8 with NV5 Geospatial (formerly Photo Science). He primarily supports Photogrammetry and lidar mapping projects for DOT and Civil Engineering clients. he has also worked on and managed numerous lidar, photogrammetry, and GIS projects for private, local, state, and federal government agencies. Some agencies include the National Geospatial Intelligence Agency, USGS, US Army Corps of Engineers, Wisconsin DOT, Minnesota DOT, Maryland State Highway Administration, Virginia DOT, and FAA. Brian also has experience outside of photogrammetry working for Sussex County, DE, as the lead GIS Specialist overseeing street addressing for their 911 GIS and Computer Aided Dispatch databases. Brian is well-versed in traditional and hybrid workflows integrating various disciplines of lidar, photogrammetry, and GIS. Brian is responsible for oversight of task order management, project management tasks, quality control, and overall oversight of the contracts.

#### **Project Experience**

**Professional Technical Consultant Services Contract, Minnesota Department of Transportation.** NV5 Geospatial has held multiple Professional Technical Consultant Services contracts with the Minnesota Department of Transportation. Our performance has been exceptional as demonstrated on our recent contract performance evaluation where we received a score of 20 out of 20.

Brian primarily supports Photogrammetry and Lidar mapping projects for Department of Transportation and Civil Engineering clients. He has also worked on and managed numerous Lidar,



Project Assignment Project Manager

#### **Education**

BS, Geography, Salisbury State University, 1994 Certificate, Stereoplotter Operator Training, Ferris State University, 1995 Certificate, Supervisor Training, Chesapeake College, 1998 Certificate, Project Management, 2001 **Registrations ASPRS** Certified Photogrammetrist **GISCI Certified GIS Professional Years of Experience** 29 Years with NV5 Geospatial 18

Photogrammetry, and GIS projects for private, local, state, and federal government agencies.

**Boyle County Survey Request, Kentucky Transportation Cabinet.** As part of the 2022 on-call contract, NV5 Geospatial captured digital orthoimagery, aerial lidar, mapping, and ground survey professional services for this project. We collected aerial color photography using a digital camera sensor for 3" orthoimagery. Aerial lidar was collected at 30ppsm using an 1560i lidar system over the area of interest. Digital mapping of planimetrics and breaklines included support mapping at 1"=50' scale. Currently, NV5 Geospatial is working to deliver this project to the client which includes digital orthos to be processed at 0.25' pixel resolution in GeoTIFF format.

**2023 Spring Lidar and Imagery Acquisition, Minnesota Department of Transportation.** NV5 Geospatial is providing fixed-wing lidar collected at 30ppsm as well as imagery captured at 3.5cm GSD throughout the State of Minnesota.

**Digital Aerial Photography and Lidar Acquisition for Wahoo-Fremont South, Nebraska Department of Transportation.** NV5 Geospatial is providing aerial lidar and photogrammetric mapping for Nebraska Department of Transportation in the location of Wahoo-Fremont South.



# **Timothy Moore**

As a Senior Photogrammetrist, Tim provides leadership, direction, and control on major NV5 Geospatial projects. He performs quality control reviews on those aspects of the project requiring the highest degree of expertise. He assists other project managers and department supervisors in assignment of technical personnel. Tim serves in all capacities within NV5 Geospatial dealing with photogrammetric mapping and digital orthoimage preparation. Tim has worked for NV5 Geospatial for over 30 years in digital photogrammetry. Since joining NV5 Geospatial, Tim has had extensive experience working with virtually all mapping instrumentation and data collection software. He is proficient on both analytical and softcopy workstations. He has compiled maps at all scales for various purposes.

#### **Project Experience**

**Aerial Photography for Photogrammetric Mapping Contract,** West Virginia Department of Transportation. NV5 Geospatial (formerly Photo Science) has held Statewide Open-End Photogrammetry Contracts with the State of West Virginia Department of



Project Assignment Senior Analyst

#### Education

Coursework, Photogrammetric Mapping Technology, Ferris State University, 1984

Years of Experience 40

Years with NV5 Geospatial 40

Transportation since 1992. Our services include complete planning, project management, aerial photography, photo lab services, analytical triangulation, digital stereo compilation, interactive graphics (Intergraph), digital cross sections, digital files, and digital elevation modes (DEM). Basic photogrammetric services are used to aid in engineering design of heavy highway and bridge projects.

**Wisconsin Department of Transportation Photogrammetry and Lidar On-Call Master Contracts.** NV5 Geospatial has worked for Wisconsin Department of Transportation (WisDOT) directly under previous "On-Call" and current "Master Contracts" for survey and photogrammetry since 1981. Services requested by the Department aerial image acquisition, film processing, contract printing, indexing, mosaic development, image scanning, photogrammetric control surveying, geodetic leveling, analytic and soft-copy aero-triangulation, digital terrain model development, planimetric map compilation, contour processing, data reduction, lidar processing and merger of lidar terrain and planimetric feature extraction via stereo photogrammetric procedures, UAS (Unmanned Aircraft Systems) products, and conventional survey.



# **Oswaldo Vasconez**

Oswaldo has held the positions of Field Survey Technician, Topographic Draftsman, and CADD Operator giving him a full overview of the company's operations and the experience and qualifications to perform in his current role as Graphics Supervisor for NV5 Geospatial. For the past 14 years he has worked a dual role as a Senior Graphics Workstation Operator/Supervisor, specializing in the use of AutoCAD and Microstation automated drafting systems, editing and plotting final map sheets.

#### **Project Experience**

**2024** Apple Grove Expansion Topographic Mapping, Imagery and Lidar. West Virginia Department of Transportation. NV5 Geospatial is currently working with the West Virginia DOT to provide topographic mapping, aerial imagery and lidar services along the Ohio/West Virginia State lines. This project serves as an expansion of the areas surrounding the 2018 Apple Grove project we previously performed for the State. The entire campus area is ~20,000 acres.

# Aerial Photography for Photogrammetric Mapping Contract, West

Virginia Department of Transportation. NV5 Geospatial (formerly



Project Assignment Technical Expert

#### Education

BA, Architecture, Universidad Central, Ecuador, 1982 AA, Topography, Universidad Central, Ecuador, 1978

Years of Experience 45

Years with NV5 Geospatial 37

Photo Science) has held Statewide Open-End Photogrammetry Contracts with the State of West Virginia Department of Transportation since 1992. Our services include complete planning, project management, aerial photography, photo lab services, analytical triangulation, digital stereo compilation, interactive graphics (Intergraph), digital cross sections, digital files, and digital elevation modes (DEM). Basic photogrammetric services are used to aid in engineering design of heavy highway and bridge projects.

**Statewide Photogrammetric Service Agreement, Pennsylvania Department of Transportation.** NV5 Geospatial was awarded two five-year contracts with the Pennsylvania Department of Transportation (PennDOT). The first contract was awarded in September 2012 and is a Statewide Open-End Photogrammetric Services contract. The second contract, awarded in February 2013, is a Statewide Non-Project Specific Services contract. Services on these contracts have included aerial photography, scanning, airborne lidar, mobile mapping, geodetic photo control & field surveys, analytical aerotriangulation, photogrammetric mapping, digital orthoimagery, and quality assurance/quality control services.

**Statewide Orthoimagery Contract, Pennsylvania Emergency Management Agency (PEMA).** In 2018, NV5 Geospatial was awarded a multi-year, statewide ortho-imagery mapping program from the Pennsylvania Emergency Management Agency (PEMA). The NV5G team will be providing 4- band digital ortho-imagery at 15 cm pixel resolution to meet or exceed ASPRS Class 1 accuracy standards for 1"=100' scale mapping. Optional buy-up products include high- resolution ortho-imagery at 3 inch resolution, lidar, oblique data collection and processing, as well as ancillary data products. This project will consist of the entire land area of the State of Pennsylvania or approximately 44,772 square miles.



# **Robert W. Koenen**

Robert has over 35 years of experience as a photogrammetrist and has been involved in many complex projects using both conventional and digital stereoplotters and soft copy stations. His present assignment is Supervisor of the Photogrammetric Compilation Department. Since entering the field of aerial mapping, Robert has become skilled in the use of several software programs and operating systems. He also has experience operating a wide range of stereoplotters including Kern, Wild, and Zeiss. Related assignments have included orthophotographic scanning, surveying, aerial triangulation, orthoimage production, and graphic editing. For all projects listed, Robert's responsibilities as Photogrammetry Manager include data collection and related services. He is responsible for project set up, assignment of data collection tasks, on-line review, and maintenance of schedule in compilation department.



Project Assignment Team Leader

#### Education

Diploma, Photogrammetry, Algonquin College, 1979

Years of Experience 44

Years with NV5 Geospatial 40

#### Apple Grove Expansion Topographic Mapping, Imagery and Lidar

West Virginia Department of Transportation. NV5 Geospatial provided the West Virginia DOT with planimetric mapping, aerial imagery and lidar services along the Ohio/West Virginia State lines.

**Aerial Photography for Photogrammetric Mapping Contract**, West Virginia Department of Transportation. NV5 Geospatial (formerly Photo Science) has held Statewide Open-End Photogrammetry Contracts with the State of West Virginia Department of Transportation since 1992. Our services include complete planning, project management, aerial photography, photo lab services, analytical triangulation, digital stereo compilation, interactive graphics (Intergraph), digital cross sections, digital files, and digital elevation modes (DEM). Basic photogrammetric services are used to aid in engineering design of heavy highway and bridge projects.

**I-95 North of Richmond, VA Aerial Photography,** Woolpert. NV5 Geospatial was contracted to provide aerial photography for the I-95 project area north of Richmond, Virginia. Deliverables included 3-band digital imagery in .TIFF format, 8-bit image delivery, and XYZ coordinates for all imagery in Virginia State Plane format.



# **Jurica Dasovic**

Jurica has been employed with NV5 Geospatial since 1998. He has over 35 years of experience in aerial photography, including planning, preparation and processing. He is highly skilled in image scanning and digital processing applications, especially making seamless mosaics and balancing imagery. He is skilled in using numerous orthoprocessing and CAD software applications, and has been involved in producing digital orthos for numerous airport projects in recent years.

**Aerial Photography for Photogrammetric Mapping Contract**, West Virginia Department of Transportation. NV5 Geospatial (formerly Photo Science) has held Statewide Open-End Photogrammetry Contracts with the State of West Virginia Department of Transportation since 1992. Our services include complete planning, project management, aerial photography, photo lab services, analytical triangulation, digital stereo compilation, interactive graphics (Intergraph), digital cross sections, digital files, and digital elevation modes (DEM). Basic photogrammetric services are used to aid in engineering design of heavy highway and bridge projects.



#### Project Assignment Senior Analyst

Education

Coursework, Air Force Military Electrical Engineer

**Years of Experience** 40

Years with NV5 Geospatial 26

**VDOT 1-66**, Bowman Consulting Group. As a sub, NV5 Geospatial acquired lidar data along I-66 in Virginia. The flight plan was optimized to achieve a point density of 16 ppsm, horizontal accuracy of 13 cm, and vertical accuracy of 5 cm. Additional data collected and processed by NV5G included digital imagery at a GSD of 7.5, and mobile lidar.

**Aeronautical Obstruction Survey – St. Louis Lambert International Airport (STL),** WSP USA. NV5 Geospatial was contracted to provide an Airport Layout Plan and aeronautical obstruction survey at the St. Louis Lambert International Airport (STL) located in St. Louis, MO. For this project, NV5 Geospatial acquired new vertical stereo digital imagery at a physical image scale of 1"= 4,328' of the obstruction surface areas and 1"= 801' of the airport property. The aerial imagery covered all of the VG Airspace Analysis surfaces using a Ultracam Eagle Digital Aerial Mapping Camera, or comparable, during leaf-on conditions.

**Aeronautical Obstruction Survey – San Antonio International Airport (SAT),** WSP USA. NV5 Geospatial was contracted to provide a Master Plan and aeronautical obstruction survey at the San Antonio International Airport (SAT) located in San Antonio, TX. For this project, NV5 Geospatial acquired new vertical stereo digital imagery at a physical image scale of 1"= 3,750' of the obstruction surface areas and 1"= 694' of the airport property. The aerial imagery covered all of the VG Airspace Analysis surfaces using a Ultracam Falcon Digital Aerial Mapping System, or comparable, during leaf-on conditions.



# Steve Hyde, PLS

Steve has over 35 years of experience in the surveying and photogrammetric field including boundary, topographic, right-ofway, ALTA/ACSM, gas, oil, energy, pipeline, and construction (stakeout and as-built) surveys. During his career, he has over 30 years of project management and extensive quality control experience on large-scale surveying efforts. He is responsible for personnel supervision, field work, budgeting, Quality Control/Quality Assurance, marketing, training, motivation, and evaluation. He has provided direction, project planning and oversight to field crews and managed personnel, reduced overhead and identified more efficient methods to complete field work, reduce costs and increase profit. Steve also prepares and presents continuing education courses accredited by several state licensing boards as well as American Congress on Surveying and Mapping.

#### **Project Experience**

**Kentucky Statewide Lidar & Orthoimagery,** Commonwealth Office of Technology. NV5 Geospatial has been the prime contractor to provide statewide digital orthoimage basemap, including current color leaf-off aerial photography and lidar for the entire state of Kentucky. Program deliverables include 4- band digital orthoimages at 1 ft and 6 inch resolutions, along with lidar digital elevation products and planimetric mapping. In 2018, we won our second consecutive contract with the State, and in 2022, we were awarded a multi-year Statewide Imagery Contract to provide 3 inch oblique aerial imagery and 3 inch digital orthoimagery for the entire State.

**Pennsylvania Statewide Orthoimagery Program,** Pennsylvania Emergency Management Agency (PEMA). NV5 Geospatial was awarded a multi-year, statewide orthoimagery mapping program from the PEMA. The NV5 Geospatial team will be providing 4-band digital orthoimagery at 15 cm pixel resolution to meet or exceed ASPRS Class 1 accuracy standards for 1"=100' scale mapping. Optional buy-up products includes high-resolution orthoimagery at 3-inch resolution, lidar, oblique data collection and processing, as well as ancillary data products. This project encompasses the entire land area of the State of Pennsylvania or approximately 44,772 mi<sup>2</sup>.

**On-Call Photogrammetry Contract, Illinois Department of Transportation**. Survey Lead. NV5 Geospatial has provided photogrammetry services to the Illinois DOT for over 20 years. Projects have included aerial film acquisition, digital imagery acquisition, contract prints, orthophotography, topographic mapping, planimetric mapping, lidar acquisition (both aerial and mobile), lidar processing, and high accuracy mapping for engineering design.



Project Assignment West Virginia Professional Land Surveyor

#### **Education**

- MS, Surveying, University of Maine, 2018
- BS, Organizational Management, Indian River State College, 2011
- AS, Civil Engineering & Surveying, Columbus State University, 2001

#### Registrations





# Years of Experience 35

Years with NV5 Geospatial 6

NV5 Geospatial – Centralized Request for Quote for State of West Virginia – Mapping Services in South West Virginia – CRFQ 0313 DEP2400000042

# **Cliff Feldheim**

Cliff's responsibilities include in-house survey planning and initiation, and coordination of field targeting and ground surveying. Cliff works closely with clients and contractors on FAA Airports GIS (AGIS) projects to guide them in the proper acquisition of data to successfully complete the project. He collects and organizes the information needed for the reporting process of the AGIS program. His primary responsibilities have been the onsite survey of ground control, collection of runway data and navigational aids at 50 airports throughout the United States and its territories.

#### **Project Experience**

**ADIP Survey Work – Columbia Metropolitan Airport (CAE),** W.K. Dickson & Co., Inc. NV5 Geospatial was tasked to provide orthoimagery and planimetric data for airfield planning and other evaluation purposes at the Columbia Metropolitan Airport (CAE) located in Columba, SC. The project was in compliance with ADIP policies. For this project, NV5 Geospatial acquired new vertical stereo digital imagery at a physical image scale of 1"=1,339' of the mapping limits. The aerial imagery covered all of the airport property using a Digital Mapping Camera (DMC II-230), or comparable. From the 1"=1,339' imagery, NV5 Geospatial produced 100 scale mapping with 2' contours of the mapping limits.

Vegetation Obstruction Survey – Santee Cooper Regional Airport (MNI), Holt Consulting LLC. NV5 Geospatial was tasked to provide

obstruction information for obstruction evaluation purposes at



Project Assignment Survey Technician

#### Education

BS, Geography, University of Maryland, Baltimore County, 1980 Certificate, FAA Integrated Distance Learning Environment (IDLE), Federal Aviation Administration, 2010 Training, OPUS Projects Manager Training, National Geodetic Survey, 2013

Years of Experience 35

Years with NV5 Geospatial 35

Santee Cooper Regional Airport (MNI) located in Manning, SC. For this project, NV5 Geospatial acquired high resolution (10 ppsm or greater) lidar data for the defined area. The aerial survey and vegetation analysis covered all of the defined airspace surfaces. From the 10 ppsm lidar data, NV5 Geospatial produced Custom Vegetation Obstruction Data Reports including location, height, distance above each obstructed surface, and land parcel data; Google Earth .KML file with attributed obstruction data for easy access and navigation; and Esri shapefiles with obstruction data for GIS application including point and polygon obstruction features.

**South Carolina Statewide Airport Aerial Mapping Services Contract,** South Carolina Aeronautics Commission. NV5 Geospatial was awarded a five-year contract for digital orthoimagery and topographic, obstruction, and planimetric mapping of selected airports in South Carolina for the South Carolina Aeronautics Commission (SCSC). NV5 Geospatial performed services for nine airports under this contract. Task orders included Union County Airport (35A), Laurens County Airport (LUX), St. George Airport (6J2), Barnwell Regional Airport (BNL), Donaldson Center Airport (GYH), Florence Regional Airport (FLO), Charleston International (CHS), Myrtle Beach International Airport (MYR), and Georgetown County (GGE).



# 4.0 REQUIRED FORMS



Department of Administration Purchasing Division 2019 Washington Street East Post Office Box 50130 Charleston, WV 25305-0130

#### State of West Virginia Centralized Request for Quote Service - Prof

Proc Folder:	1425752		Reason for Modification:
Doc Description:	Mapping Services in Southe	rn West Virginia	Addendum #1 issued to publish agency responses to all vendor submitted questions.
Proc Type:	Central Master Agreement		
Date Issued	Solicitation Closes	Solicitation No	Version
2024-05-23	2024-05-28 13:30	CRFQ 0313 DEP2400000042	2
BID RECEIVING LO	DCATION		
BID CLERK DEPARTMENT OF PURCHASING DIV 2019 WASHINGTO CHARLESTON US	ADMINISTRATION ISION N ST E WV 25305		
	Oo doo		
Vendor Customer	Code:		
Vendor Name :	NV5 Geospatial, Inc.		
Address :			
Street : 45180	Business Court, Suite 800		
City : Dulles			
State : VA		Country: United States Zip:	20166
Principal Contact	: Marlin Zook		
Vendor Contact P	<b>hone:</b> (703) 471-4510	Extension: 218	
FOR INFORMATIO Joseph E Hager III (304) 558-2306 joseph.e.hageriii@v	N CONTACT THE BUYER		
Vendor Ma Signature X	In R. Zork	<b>FEIN#</b> 39-1133181	<b>DATE</b> May 28, 2024

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

### ADDITIONAL INFORMATION

The West Virginia Purchasing Division is soliciting bids on behalf of the West Virginia Department of Environmental Protection to establish an open-end contract for Mapping Services in the Southern Counties of West Virginia per the attached specifications and terms and conditions.

INVOIC	NVOICE TO			SHIP TO				
ENVIRONMENTAL PROTECTION			ENVIRONMENTAL PROTECTION					
OFFICE OF AML&R		OFFICE (	OFFICE OF AML&R					
601 57	TH ST SE		601 57TH ST SE					
CHARLESTON WV		WV	CHARLESTON		WV			
US		US						
Line	Comm Ln Desc		Qty	Unit Issue	Unit Price	Total Price		
1	Control Surveyin	g	50.00000	HOUR	\$90	\$3,000		
Comm	Code	Manufacturer	Specificat	ion	Model #			
811516	01							

## Extended Description:

(Spec Item 3.1.1.2.1)

0	SHIP TO	0				
MENTAL ION	ENVIRC PROTE	ENVIRONMENTAL PROTECTION				
F AML&R	OFFICE	OF AML&R				
601 57TH ST SE		601 57TH ST SE				
TON WV	CHARLESTON		WV			
	US					
Comm Ln Desc	Qty	Unit Issue	Unit Price	Total Price		
Topographic, Planimetric and Check Surveying	150.00000	HOUR	\$70	\$10,500		
	O     MENTAL     ION     F AML&R     ST SE     FON     WV	OSHIP TOMENTAL IONENVIRO PROTEF AML&ROFFICE 601 57TST SE TON601 57T CHARL USComm Ln DescQtyTopographic, Planimetric and Check Surveying150.00000	O SHIP TO   MENTAL ION ENVIRONMENTAL PROTECTION   F AML&R OFFICE OF AML&R   ST SE 601 57TH ST SE   TON WV   CHARLESTON Us   Comm Ln Desc Qty   Topographic, Planimetric and Check Surveying 150.00000	O SHIP TO   MENTAL ION ENVIRONMENTAL PROTECTION   F AML&R OFFICE OF AML&R   ST SE 601 57TH ST SE   TON WV   CHARLESTON WV   US Unit Issue Unit Price   Topographic, Planimetric and Check Surveying 150.00000 HOUR \$70		

Comm Code	Manufacturer	Specification	Model #
81151601			

## **Extended Description:**

(Spec Item 3.1.1.3)

INVOICE TO			SHIP TO			
ENVIRONMENTAL PROTECTION OFFICE OF AML&R			NMENTAL TION OF AML&R			
601 57	TH ST SE		601 57TH	I ST SE		
CHARL	ESTON	WV	CHARLE	STON	WV	
US		US				
Line	Comm Ln Des	sc	Qty	Unit Issue	Unit Price	Total Price
3	Topographic N	1apping - (0-25 Acres)	15.00000	ACRE	\$175	\$2,625
Comm	Code	Manufacturer	Specificat	tion	Model #	
811516	01					
Extende (Spec It	ed Description: tem 3.2 & 4.2)					
INVOICE TO			SHIP TO			
ENVIRONMENTAL PROTECTION		ENVIRON PROTEC	NMENTAL TION			
OFFICE	E OF AML&R		OFFICE	OF AML&R		
601 57	TH ST SE		601 57T⊦	I ST SE		
CHARL	ESTON	WV	CHARLESTON WV			

US

Specification

Qty

30.00000

**Unit Issue** 

ACRE

**Unit Price** 

\$95

Model #

**Total Price** 

\$2,850

## Extended Description:

Comm Ln Desc

Topographic Mapping - (25-50 Acres)

Manufacturer

(Spec Item 3.2 & 4.2)

US

Line

Comm Code

81151601

4

INVOICE TO		SHIP TO			
ENVIRONMENTAL PROTECTION		ENVIRON PROTEC	IMENTAL TION		
OFFICE OF AML&R		OFFICE (	OF AML&R		
601 57TH ST SE		601 57TH	ST SE		
CHARLESTON	WV	CHARLES	STON	WV	
US		US			
Line Comm Ln D	esc	Qty	Unit Issue	Unit Price	Total Price
5 Topographic	Mapping - (50-100 Acres)	75.00000	ACRE	\$65	\$4,875
Comm Code	Manufacturer	Specificat	ion	Model #	
81151601					
Extended Description:					
ENVIRONMENTAL PROTECTION		ENVIRON PROTEC	IMENTAL TION		
OFFICE OF AML&R		OFFICE (	OF AML&R		
601 57TH ST SE		601 57TH	ST SE		
CHARLESTON	WV	CHARLES	STON	WV	
US		US			
Line Comm Ln D	esc	Qty	Unit Issue	Unit Price	Total Price
6 Topographic	Mapping - (Over 100 Acres)	125.00000	ACRE	\$55	\$6,875

Comm Code	Manufacturer	Specification	Model #	
81151601				

## **Extended Description:**

(Spec Item 3.2 & 4.2)

## SCHEDULE OF EVENTS

Event

<u>Line</u>

Event Date

**DESIGNATED CONTACT:** Vendor appoints the individual identified in this Section as the Contract Administrator and the initial point of contact for matters relating to this Contract.

(Printed Name and Title) Marlin Zook, Department Director

(Address) 45180 Business Court, Suite 800, Dulles, VA 20166

(Phone Number) / (Fax Number) (703) 471-4510 Ext. 218

(email address) Marlin.Zook@nv5.com

**CERTIFICATION AND SIGNATURE:** By signing below, or submitting documentation through wvOASIS, I certify that: I have reviewed this Solicitation/Contract in its entirety; that I understand the requirements, terms and conditions, and other information contained herein; that this bid, offer or proposal constitutes an offer to the State that cannot be unilaterally withdrawn; that the product or service proposed meets the mandatory requirements contained in the Solicitation/Contract for that product or service, unless otherwise stated herein; that the Vendor accepts the terms and conditions contained in the Solicitation, unless otherwise stated herein; that I am submitting this bid, offer or proposal for review and consideration; that this bid or offer was made without prior understanding, agreement, or connection with any entity submitting a bid or offer for the same material, supplies, equipment or services; that this bid or offer is in all respects fair and without collusion or fraud; that this Contract is accepted or entered into without any prior understanding, agreement, or connection to any other entity that could be considered a violation of law; 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.

By signing below, I further certify that I understand this Contract is subject to the provisions of West Virginia Code § 5A-3-62, which automatically voids certain contract clauses that violate State law; and that pursuant to W. Va. Code 5A-3-63, the entity entering into this contract is prohibited from engaging in a boycott against Israel.

NV5 Geospatial, Inc.

(Company) Marlin R. Zork

(Signature of Authorized Representative) Marlin Zook, Department Director, State & Regional - NV5 Geospatial, Inc.

(Printed Name and Title of Authorized Representative) (Date)

(703) 471-4510

(Phone Number) (Fax Number)

Marlin.Zook@nv5.com

(Email Address)

#### ABANDONED MINE LANDS (AML) CONTRACTOR INFORMATION FORM

You must complete this form for your AML contracting officer to request an eligibility evaluation from the Office of Surface Mining Reclamation and Enforcement (OSMRE) to determine if you are eligible to receive an AML contract. This requirement can be found under OSMRE's regulations at 30 CFR 874.16. NOTE: This form must be signed and **dated within 30 days** of submission to be considered for a current bid.

## **Part A: General Information**

Business Name:	NV5 Geospatial, Inc.
Tax ID #:	39-1133181
Address:	45180 Business Court, Suite 800
City, State, & Zip:	Dulles, VA 20166
Phone Number:	703.471.4510 Ext. 218
Email Address:	Marlin.Zook@nv5.com

## Part B: Obtain an Organizational Family Tree (OFT) from the Applicant Violator System (AVS)

If you plan to certify the existing AVS information or submit updates under Part C, you must include an OFT. Instructions for downloading an OFT from the AVS can be found at: https://www.osmre.gov/sites/default/ files/2022-02/OMB%201029-0119%20instructions.pdf. If you require assistance you may contact the AVS Office by phone at: 800-643-9748, or by email at: avshelp@osmre.gov.

## Part C: Certifying and updating information in the AVS

Select one of the options, follow the instructions for the selected option, sign, and date below.

I. Marlin Zook

(Print Name)

, have express authority to certify that:

- 1. Our business is listed in the AVS. The information is accurate, complete, and up to date. (If you select this option, you must attach an Entity OFT from the AVS to this form). Do not complete Part D.
- 2. Our business is in the AVS. The information needs to be updated. (If you select this option, you must attach an Entity OFT from the AVS to this form). Complete Part D to provide the missing or corrected information.
- 3. Our business is not listed in the AVS. The information needs to be added. Complete Part D to provide the information.

05/28/2024

Date

Marlin R. Zork Signature

**Department Director** Title

Contractor's Business Name: NV5 Geospatial, Inc.

If the current Entity OFT information for your business is incomplete in the AVS, or if there is no information in the AVS for your business, you must provide all of the following information as it applies to your business. Please include additional copies of this page if the space below is not sufficient to capture all information.

- Every officer (President, Vice President, Secretary, Treasurer, etc.);
- All Directors, Partners, and Members;
- All persons performing a function similar to a Director;
- Every person or business that owns 10% or more of the voting stock in your business;
- Any other person(s) who has the ability to determine the manner in which the AML reclamation project is being conducted.
- Please list an end date for any person who is no longer with your business.

Name:	Dickerson Wright	Name:	Richard Tong
Address:	200 South Park Road, Suite 350	Address:	200 South Park Road, Suite 350
City, State, Zip:	Hollywood, FL 33021	City, State, Zip:	Hollywood, FL 33021
Begin Date:	12/2009	Begin Date:	03/2010
End Date:	Present	End Date:	Present
% Ownership:	N/A	% Ownership:	N/A
Position/Title:	Director	Position/Title:	Director/Chairman of the Board/Executive VP, Co-Secretary
Phone Number:	(954) 495-2112	Phone Number:	(954) 495-2112
Name:	Daniel Levine	Name:	Edward Codispoti
Address:	100 Qbe Way	Address:	200 South Park Road, Suite 350
City, State, Zip:	Sun Prairie, WI 53590	City, State, Zip:	Hollywood, FL 33021
Begin Date:	01/2024richar	Begin Date:	05/2019
End Date:	Present	End Date:	Present
% Ownership:	N/A	% Ownership:	Ν/Α
Position/Title:	President	Position/Title:	Chief Financial Officer/Treasurer
Phone Number:	(205) 725-5836	Phone Number:	(954) 495-2112

## PAPERWORK REDUCTION STATEMENT

The Paperwork Reduction Act of 1995 (44 U.S.C 3501) requires us to inform you that: Federal Agencies may not conduct or sponsor, and a person is not required to respond to, a collection of information unless it displays a current valid OMB control number. This information is necessary for all successful bidders prior to the distribution of AML funds, and is required to obtain a benefit.

Contractor's Business Name: NV5 Geospatial, Inc.

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- Any other person(s) who has the ability to determine the manner in which the AML reclamation project is being conducted.
- Please list an end date for any person who is no longer with your business.

Name:	MaryJo O'Brien	Name:	Mark E. Meade
Address:	200 South Park Road, Suite 350	Address:	523 Wellington Way
City, State, Zip:	Hollywood, FL 33021	City, State, Zip:	Lexington, KY 40503
Begin Date:	03/2010	Begin Date:	07/2013
End Date:	Present	End Date:	Present
% Ownership:	N/A	% Ownership:	N/A
Position/Title:	Secretary	Position/Title:	Vice President
Phone Number:	(954) 495-2112	Phone Number:	(859) 277-8700
Name:	Robert Vander Meer	Name:	Ryan Avery
Address:	N6216 Resource Drive	Address:	200 South Park Road, Suite 350
City, State, Zip:	Sheboygan Falls, WI 53085	City, State, Zip:	Hollywood, FL 33021
Begin Date:	01/2011	Begin Date:	01/2024
End Date:	Present	End Date:	Present
% Ownership:	N/A	% Ownership:	N/A
Position/Title:	Vice President	Position/Title:	Vice President

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- Every person or business that owns 10% or more of the voting stock in your business;
- Any other person(s) who has the ability to determine the manner in which the AML reclamation project is being conducted.
- Please list an end date for any person who is no longer with your business.

Name:	Evon Silvia	Name:	Jon Wittman
Address:	1100 NE Circle Blvd Suite 126	Address:	N6216 Resource Drive
City, State, Zip:	Corvallis, OR 97330	City, State, Zip:	Sheboygan Falls, WI 53085
Begin Date:	08/2011	Begin Date:	07/2010
End Date:	Present	End Date:	Present
% Ownership:	N/A	% Ownership:	N/A
Position/Title:	Vice President	Position/Title:	Vice President
Phone Number:	(800) 558-6707	Phone Number:	(920) 457-3631
Name:	John Nett	Name:	lan Berdie
Address:	N6216 Resource Drive	Address:	421 SW 6th Ave., Suite 800
City State 7im			
City, State, Zip:	Sheboygan Falls, WI 53085	City, State, Zip:	Portland, OR 97204
Begin Date:	Sheboygan Falls, WI 53085 09/2023	City, State, Zip: Begin Date:	Portland, OR 97204 03/2020
Begin Date: End Date:	Sheboygan Falls, WI 53085 09/2023 Present	City, State, Zip: Begin Date: End Date:	Portland, OR 97204 03/2020 Present
Begin Date: End Date: % Ownership:	Sheboygan Falls, WI 53085 09/2023 Present N/A	City, State, Zip: Begin Date: End Date: % Ownership:	Portland, OR 97204 03/2020 Present N/A
Begin Date: End Date: % Ownership: Position/Title:	Sheboygan Falls, WI 53085 09/2023 Present N/A Vice President	City, State, Zip: Begin Date: End Date: % Ownership: Position/Title:	Portland, OR 97204 03/2020 Present N/A Vice President
Begin Date: End Date: % Ownership: Position/Title: Phone Number:	Sheboygan Falls, WI 53085 09/2023 Present N/A Vice President (920) 457-3631	City, State, Zip: Begin Date: End Date: % Ownership: Position/Title: Phone Number:	Portland, OR 97204 03/2020 Present N/A Vice President (503) 673-6856

## PAPERWORK REDUCTION STATEMENT

The Paperwork Reduction Act of 1995 (44 U.S.C 3501) requires us to inform you that: Federal Agencies may not conduct or sponsor, and a person is not required to respond to, a collection of information unless it displays a current valid OMB control number. This information is necessary for all successful bidders prior to the distribution of AML funds, and is required to obtain a benefit.

Contractor's Business Name: NV5 Geospatial, Inc.

If the current Entity OFT information for your business is incomplete in the AVS, or if there is no information in the AVS for your business, you must provide all of the following information as it applies to your business. Please include additional copies of this page if the space below is not sufficient to capture all information.

- Every officer (President, Vice President, Secretary, Treasurer, etc.);
- All Directors, Partners, and Members;
- All persons performing a function similar to a Director;
- Every person or business that owns 10% or more of the voting stock in your business;
- Any other person(s) who has the ability to determine the manner in which the AML reclamation project is being conducted.
- Please list an end date for any person who is no longer with your business.

Name:	Dan Casey	Name:	Tobin Guthrie
Address:	10033 MLK St N Suite 200	Address:	412 SW 6th Ave. #800
City, State, Zip:	St Petersburg, FL 33716	City, State, Zip:	Portland, OR 97204
Begin Date:	07/2013	Begin Date:	08/2022
End Date:	Present	End Date:	Present
% Ownership:	N/A	% Ownership:	N/A
Position/Title:	Vice President	Position/Title:	Vice President
Phone Number:	(727) 576-9500	Phone Number:	(503) 673-6856
Name:	Kris Fausti	Name:	Kurt Allen
Name: Address:	Kris Fausti 1100 NE Circle Blvd Suite 126	Name: Address:	Kurt Allen     523 Wellington Way
Name: Address: City, State, Zip:	Kris Fausti 1100 NE Circle Blvd Suite 126 Corvallis, OR 97330	Name: Address: City, State, Zip:	Kurt Allen 523 Wellington Way Lexington, KY 40503
Name: Address: City, State, Zip: Begin Date:	Kris Fausti 1100 NE Circle Blvd Suite 126 Corvallis, OR 97330 01/2008	Name: Address: City, State, Zip: Begin Date:	Kurt Allen 523 Wellington Way Lexington, KY 40503 05/2023
Name: Address: City, State, Zip: Begin Date: End Date:	Kris Fausti 1100 NE Circle Blvd Suite 126 Corvallis, OR 97330 01/2008 Present	Name: Address: City, State, Zip: Begin Date: End Date:	Kurt Allen 523 Wellington Way Lexington, KY 40503 05/2023 Present
Name: Address: City, State, Zip: Begin Date: End Date: % Ownership:	Kris Fausti 1100 NE Circle Blvd Suite 126 Corvallis, OR 97330 01/2008 Present N/A	Name: Address: City, State, Zip: Begin Date: End Date: % Ownership:	Kurt Allen 523 Wellington Way Lexington, KY 40503 05/2023 Present N/A
Name: Address: City, State, Zip: Begin Date: End Date: % Ownership: Position/Title:	Kris Fausti     1100 NE Circle Blvd Suite 126     Corvallis, OR 97330     01/2008     Present     N/A     Vice President	Name: Address: City, State, Zip: Begin Date: End Date: % Ownership: Position/Title:	Kurt Allen 523 Wellington Way Lexington, KY 40503 05/2023 Present N/A Vice President
Name: Address: City, State, Zip: Begin Date: End Date: % Ownership: Position/Title: Phone Number:	Kris Fausti1100 NE Circle Blvd Suite 126Corvallis, OR 9733001/2008PresentN/AVice President(800) 558-6707	Name: Address: City, State, Zip: Begin Date: End Date: % Ownership: Position/Title: Phone Number:	Kurt Allen 523 Wellington Way Lexington, KY 40503 05/2023 Present N/A Vice President (859) 277-8700

## PAPERWORK REDUCTION STATEMENT

The Paperwork Reduction Act of 1995 (44 U.S.C 3501) requires us to inform you that: Federal Agencies may not conduct or sponsor, and a person is not required to respond to, a collection of information unless it displays a current valid OMB control number. This information is necessary for all successful bidders prior to the distribution of AML funds, and is required to obtain a benefit.

## ADDENDUM ACKNOWLEDGEMENT FORM SOLICITATION NO.: CRFQ DEP24\*42

**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)

		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 receipt of addenda may be cause for rejection of this bid. I further understand that any verbal representation made or assumed to be made during any oral discussion held between Vendor's representatives and any state personnel is not binding. Only the information issued in writing and added to the specifications by an official addendum is binding.

NV5 Geospatial, Inc.

Company

Marlin R. Zork Authorized Signature

May 28, 2024

Date

NOTE: This addendum acknowledgement should be submitted with the bid to expedite document processing. Revised 6/8/2012