



The following documentation is an electronically-submitted vendor response to an advertised solicitation from the *West Virginia Purchasing Bulletin* within the Vendor Self-Service portal at wvOASIS.gov. As part of the State of West Virginia's procurement process, and to maintain the transparency of the bid-opening process, this documentation submitted online is publicly posted by the West Virginia Purchasing Division at WVPurchasing.gov with any other vendor responses to this solicitation submitted to the Purchasing Division in hard copy format.

Header 1

List View

General Information

Contact

Default Values

Discount

Document Information

Procurement Folder: 730220

SO Doc Code: CRFQ

Procurement Type: Central Master Agreement

SO Dept: 0313

Vendor ID: VS0000022695

SO Doc ID: DEP2000000039

Legal Name: SolSpec, Inc

Published Date: 6/18/20

Alias/DBA:

Close Date: 6/30/20

Total Bid: \$241,690.00

Close Time: 13:30

Response Date: 06/30/2020

Status: Closed

Response Time: 12:34

Solicitation Description: Addendum No.01 Mapping Services in Northern West Virginia

Total of Header Attachments: 1

Total of All Attachments: 1



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

**State of West Virginia
 Solicitation Response**

Proc Folder : 730220

Solicitation Description : Addendum No.01 Mapping Services in Northern West Virginia

Proc Type : Central Master Agreement

Date issued	Solicitation Closes	Solicitation Response	Version
	2020-06-30 13:30:00	SR 0313 ESR06222000000007781	1

VENDOR
VS0000022695 SolSpec, Inc

Solicitation Number: CRFQ 0313 DEP2000000039

Total Bid : \$241,690.00 **Response Date:** 2020-06-30 **Response Time:** 12:34:16

Comments:

FOR INFORMATION CONTACT THE BUYER
 Guy Nisbet
 (304) 558-2596
 guy.l.nisbet@wv.gov

Signature on File	FEIN #	DATE
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All offers subject to all terms and conditions contained in this solicitation

Line	Comm Ln Desc	Qty	Unit Issue	Unit Price	Ln Total Or Contract Amount
1	Control Surveying	600.00000	HOUR	\$95.000000	\$57,000.00

Comm Code	Manufacturer	Specification	Model #
81151601			

Extended Description : (Spec Item 3.1.1.2 & 4.2)

Line	Comm Ln Desc	Qty	Unit Issue	Unit Price	Ln Total Or Contract Amount
2	Topographic, Planimetric and Check Surveying	1800.00000	HOUR	\$95.000000	\$171,000.00

Comm Code	Manufacturer	Specification	Model #
81151601			

Extended Description : (Spec Item 3.1.1.3 & 4.2)

Line	Comm Ln Desc	Qty	Unit Issue	Unit Price	Ln Total Or Contract Amount
3	Topographic Mapping - (0-25 Acres)	15.00000	ACRE	\$162.000000	\$2,430.00

Comm Code	Manufacturer	Specification	Model #
81151601			

Extended Description : (Spec Item 3.2 & 4.2)

Line	Comm Ln Desc	Qty	Unit Issue	Unit Price	Ln Total Or Contract Amount
4	Topographic Mapping - (25-50 Acres)	30.00000	ACRE	\$107.000000	\$3,210.00

Comm Code	Manufacturer	Specification	Model #
81151601			

Extended Description : (Spec Item 3.2 & 4.2)

Line	Comm Ln Desc	Qty	Unit Issue	Unit Price	Ln Total Or Contract Amount
5	Topographic Mapping - (50-100 Acres)	75.00000	ACRE	\$54.000000	\$4,050.00

Comm Code	Manufacturer	Specification	Model #
81151601			

Extended Description : (Spec Item 3.2 & 4.2)

Line	Comm Ln Desc	Qty	Unit Issue	Unit Price	Ln Total Or Contract Amount
6	Topographic Mapping - (Over 100 Acres)	125.00000	ACRE	\$32.000000	\$4,000.00

Comm Code	Manufacturer	Specification	Model #
81151601			

Extended Description : (Spec Item 3.2 & 4.2)



SolSpec

Response to the Request for Quotation for
MAPPING SERVICES IN NORTHERN WEST VIRGINIA
Solicitation 0313 DEP2000000039

Prepared for

West Virginia Department of Environmental Protection
Office of Abandoned Mine Lands and Reclamation
601 57th Street Southeast
Charleston, West Virginia 25304

Prepared by

SolSpec Inc
165 South Union Boulevard, Suite 100
Lakewood, Colorado 80403
Email: info@solspec.io

June 2020



Table of Contents

Introduction – Page 3

Unit Prices – Page 4

Consultant Qualifications – Page 5

Designated Contact – Page 21

Addendum Acknowledgement Form – Page 22

Contract Manager Contact Information – Page 23

AML Contractor Information – Page 25

Disclosure of Interested Parties to Contracts – Page 29

Purchasing Affidavit – Page 30



Introduction

SolSpec Inc (SolSpec) is pleased to offer this response to the request for quotation for the West Virginia Department of Environmental Protection's (WVDEP) mapping project in the northern counties of West Virginia. Information provided in this expression of interest is based on the solicitation request CRFQ 0313 DEP2000000039.

SolSpec will draw upon its next-level mapping technologies and strong industry partnerships with Encompass Energy Services (Encompass) and Air Data Solutions (ADS), who will serve as subconsultants in this project, to deliver all the services listed to the WVDEP with cost-effectiveness and unprecedented timeliness. We formed our successful partnership to deliver value to the Appalachian region with our combined mastery of aerial data acquisition, surveying, and topographic mapping.

Our team's approach capitalizes on next-level technologies and economies of scale to accomplish projects for our clientele in a manner that surpasses expectations and establishes new industry performance standards. For example, we recently captured and processed LiDAR data for northern West Virginia industries in one-sixtieth of the time compared to other vendors.

It is our understanding that the services requested for the Northern West Virginia Mapping project include the following:

- Control surveying;
- Topographic, planimetric, and check surveying; and
- Topographic mapping (aerial photography or LiDAR).

These services are to be provided to the WVDEP's Office of Abandoned Mine Lands and Reclamation for 25 northern West Virginia counties. Enclosed are the unit prices and delivery timelines for services as specified in the CRFQ 0313 DEP2000000039 and related attachments and addenda. Additionally, we include pricing for aerial data acquisition and processing for larger geographical areas, which may be of interest to West Virginia agencies and local governments beyond this scope of work.

Please note that in order to provide services at the prices presented herein, work orders for aerial data acquisition must be submitted by February 1st of each year to allow for optimized flight planning. Aerial data will then be collected twice annually to fulfill submitted work orders.

SolSpec and its consulting partners are honored by the opportunity to be of service to the WVDEP in accomplishing its objectives. We are certain that our expertise and approach will produce results that pleasantly surprise the state of West Virginia – now and into the future.



Unit Prices

Service	Quantity	Unit Issue	Unit Price (\$)	Total Price	Delivery Days
Control Surveying	600	Hour	\$95.00	\$57,000	TBD
Topographic, Planimetric, and Check Surveying	1800	Hour	\$95.00	\$171,000	TBD
Topographic Mapping (0-25 Acres)	15	Acre	\$162.00	\$2,430.00	3
Topographic Mapping (25-50 Acres)	30	Acre	\$107.00	\$3,210.00	4
Topographic Mapping (50-100 Acres)	75	Acre	\$54.00	\$4,050.00	5
Topographic Mapping (Over 100 Acres)	125	Acre	\$32.00	\$4,000	8
LiDAR (QL2) Data Acquisition and Processing – Extended Area	100	Square Mile	\$500.00		
	1,000	Square Mile	\$400.00		
	10,000	Square Mile	\$300.00		



Consultant Qualifications

SolSpec has successfully completed aerial data acquisition, stormwater surveys, vegetation restoration analysis, and topographic contour mapping for the following Upstream Energy companies.

- Whiting Petroleum > 100 well pad assets
- Synergy Energy > 200 well pad assets
- Suncor
- PDC Energy
- Noble Energy > 150 well pad assets
- Southwestern Energy

SolSpec has successfully completed aerial mapping, geohazard identification, vegetation restoration analysis, problematic hydrology analytics, percent vegetation analysis, and slip potential analytics for the following Pipeline and Midstream companies in WV, PA, and OH.

- Energy Transfer Partners
- MarkWest Energy
- Milestone
- US Pipeline
- DTE Midstream
- Antero Midstream Partners
- Williams
- Marathon Petroleum
- Rocky Mountain Pipeline

SolSpec has successfully completed aerial mapping, geohazard identification, contours, cut/fill estimations, vegetation restoration analysis, and stormwater surveys for the Engineering Companies, Colorado Department of Transportation (CDOT) and Colorado Department of Public Health and Safety (CDPHE).

- Minturn Vertical Slide
- Walsenburg Area Mines
- Carbondale Rockfall Mapping
- Byers Canyon Geohazards
- I-70 Viaduct Expansion
- Brighton Blvd RTD Bridge
- Summitville Mine
- Golden 6th Avenue Interchange
- US 34 Corridor Mapping



Projects Currently In-Progress

SolSpec is currently performing services for the following companies. Services include aerial LiDAR and photogrammetry acquisition of area assets in West Virginia, Pennsylvania, Ohio, and Alberta Canada. The aerial data is processed in-house and analyzed for geohazard identification, problematic surface hydrology, stormwater flow survey, vegetation structure and height, encroachment, change detection over-time, hillslope threat and slip potential, contour lines, and depth of cover.

- Equitrans (325 miles)
- TransCanada Energy (1,934 km)
- MarkWest (1,170 miles)
- DTE Energy (203 miles)
- Williams (1042 miles)
- Blue Racer Midstream (137 miles)
- Energy Transfer (325 miles)

Report ID: WV-FIN-PROC-027

Run Date: 06/29/2020

Run Time: 7:54:28 AM

State of West Virginia
wvOASIS - Data Warehouse
SWAM Report



Vendor: VS0000022668 - Ducens Med-Tech Inc
Address: 350 S Glendora Ave, West Covina, CA 91790-3043

Certification Start Date: 06/23/2020

Certification End Date: 06/23/2022

Small Business

Vendor: VS0000022678 - enfoTech & Consulting
Address: 1368 How Ln, North Brunswick, NJ 08902-1792

Certification Start Date: 06/23/2020

Certification End Date: 06/23/2022

Minority-Owned Business

Vendor: VS0000022695 - SolSpec, Inc
Address: 165 S Union Blvd, Lakewood, CO 80228-2215

Certification Start Date: 06/23/2020

Certification End Date: 06/23/2022

Small Business

Vendor: VS0000022699 - Timbercat Enterprises, LLC
Address: 2160 Pigs Ear Rd, Grantsville, MD 21536-1113

Certification Start Date: 06/23/2020

Certification End Date: 06/23/2022

Small Business

Women-Owned Business

Mapping Services in Northern West Virginia
Solicitation Number: CRFQ 0313 DEP2000000039

Business Name: Air Data Solutions, LLC
Tax ID: 83-2534051
Address: 502a Airport Road
City, State & Zip: Natchitoches, LA 71457
Phone Number: 318-471-2456
Email Address: don@airdatasolutions.com

Company Summary

Powerhouse of Data Collection-

Air Data Solutions is the industry leader in advanced imagery capture and management of change nationwide. ADS pilots have the highest possible ratings and training available in the aviation/UAV sector. Our pilot network in the United States and South America along with our fleet of drones and aircraft allow us to deploy immediately. Excellent image quality and pinpointed data deliverables are achieved by pilot experience in niche industries and years of experience.

Category expertise: Agriculture, Oil & Gas, Energy, Infrastructure, Utilities- Public & Government

Services: Assessment Mapping, Right-Of-Way Route Planning, Pipeline Monitoring, Power line Inspection, Solar, Wind Turbine, Leak Detection, Laser Scanning, Energy Inspections, Underwater Mapping, Landfill Monitoring.

Mapping: Over 2.5 million acres of mapping projects in 4 countries.

Clients: We pride ourselves on long term client relationships with; NASA, USDA, Dupont Pioneer, Monsanto, Airbus, CalTrans, Kansas State University, Texas A&M University, Red River Waterways Commission, US Army Corps of Engineers, City of New Orleans S&W.

Key Personnel:

Commercial Pilot:

Name: Kirk Demuth

Title: Chief Pilot

Experience: 16 years

Commercial Pilot #2853314 ASEL, AMEL

FAA Certified Flight Instructor- #2853314CFI ASEL

FAA Part 107 Remote Pilot #3907346

Level 1 Thermographer

Kirk's role will be managing overall data capture, flight crew and aircraft scheduling, and FAA regulation compliance. Kirk will also assist in daily flight operations.

Alternate Commercial Pilot:

Clay Scarborough

Title: Pilot

Experience: 2 years

Commercial Pilot #3921774 ASEL, AMEL

FAA Certified Flight Instructor- 3921774CFI ASEL

Clay's role will be conducting daily flight operations to ensure most efficient data collection within available flight window.

Sensor Operator:

Name: Dakota Nicholas

Title: Sensor Operator

Experience: 2.5 years

Dakota's role will be conducting sensor operation, in-flight data quality monitoring, and data handoff for processing team.

Project Manager:

Name: Don Cummins

Title: Project Manager

Experience: 20 years

Don's role will consist of overall project management tasks including, but not limited to, resource availability, progress updates and other necessary communication to the prime contractor, and ensuring on schedule data delivery to processing team.

Relevant Experience:

Red River Aerial Mapping; Red River, LA

Date: 2018

Scope- Air Data Solutions was contracted to provide aerial imagery for aquatic invasive vegetation classification and mapping of the Red River in Central Louisiana. Utilizing a medium format Color Infrared camera (CIR), aerial imagery was acquired, processed into orthomosaics, and classified for invasive plant species. This contract required that all geospatial data be delivered in Tiff format as well as available through a custom online portal developed and hosted by Air Data Solutions.

Size- Project consisted of 56 linear miles mapped every 6 weeks

Cost- \$140,000

Specific Role- Utilizing photogrammetric custom imagery feature classification software, Kirk performed data processing of raw 3 band Color Infrared (CIR) imagery acquired from a medium format camera to generate orthomosaic imagery. Upon completion of orthoimagery creation, Kirk managed a team tasked with detailed orthoimagery classification, quality control of all aerial imagery, and generation of geospatial products before initiating data delivery to the client.

Corpus Christi Aerial Mapping; Corpus Christi, TX

Date: 2018

Scope- Air Data Solutions was contracted to provide aerial imagery covering city, bay, and port areas of Corpus Christi. This contract required 4" GSD aerial imagery acquired with medium format digital camera and deliverables of ortho tiles delivered in ESRI compatible format.

Size- Project consisted of 156 sq. miles

Cost- \$24,000

Specific Role- Kirk served as the sensor operator and safety pilot for the data collection portion of this project. Kirk also performed the flight planning prior to imagery data acquisition to ensure adequate imagery overlap for successful orthomosaic creation and calculated optimum flight window to ensure solar elevation angles that reduced object shadowing in imagery. Post imagery acquisition, Kirk performed data processing on raw natural color (RGB) imagery acquired from a medium format camera to convert image files and create orthomosaic imagery.

Palm Beach School District; Palm Beach, FL

Date: 2019

Scope- The school district of Palm Beach County contracted Air Data Solutions for aerial photos of District facilities, county wide. This contract totaled over 200 facilities and the timeline for turnaround was short as this was designed for documentation of

current rooftop conditions of District facilities, in the event of an incoming hurricane, for both pre- and post-storm conditions. Post data collection, ADS assisted in the migration of that imagery data to the District servers and was hosted on a custom interactive web-based GIS map portal.

Size- Project consisted of over 200 facilities in central Florida mapped pre- and post-storm events.

Cost- \$54,000

Specific Role- Performed the role of data processing, consisting of image file conversions, GIS organization and integration into web based portal, and client user account(s) setup and security. Kirk manage a team of software developers to assist migration of imagery and other related GIS data into the Districts file server system.

Cane River Waterways Commission, Natchitoches, LA

Date: 2018

Scope- Air Data Solutions was contracted to perform a pre-dredge survey of Cane River, which required production of both color and color infrared aerial imagery. In addition, digital elevation data was gathered utilizing aerial lidar and hydrographic data. All aerial imagery, Lidar, and additional geospatial data was merged to produce contiguous ortho imagery and digital elevation model covering coastal terrain for the client focused on planning construction projects. This contract required that all geospatial data be delivered in ESRI compatible format as well as available through a custom online portal developed and hosted by Air Data Solutions..

Size- Project consisted of 50,880 acres at a 3inch GSD

Cost- \$13,512

Specific Role- Utilizing photogrammetric and GIS software, Kirk performed data processing of raw natural color (RGB) and Color Infrared (CIR) imagery acquired from a medium format camera to generate orthomosaic imagery. Upon completion of orthoimagery creation, Kirk managed a team tasked with detailed orthoimagery feature classification, quality control of all aerial data, and generation of geospatial products before initiating data delivery to the client.

Solspec Pennsylvania; Pennsylvania

Date: 2020

Scope- Contracted to collect 3 inch resolution imagery and 25 points per square meter LiDAR data throughout West Virginia, Pennsylvania, and Ohio.

Size- Project area consisted of approximately 3,500 square miles throughout Pennsylvania.

Cost- \$559,000

Specific Role- Managed client relationship, planning, acquisition, processing, data QC, and data handling of project. As part of acquisition Clay was chief pilot for all acquisition and operated a Leica TerrainMapper lidar system with nadir medium format digital camera for aerial lidar & imagery acquisition.

WEST VIRGINIA DIVISION OF HIGHWAYS
CONSULTANT CONFIDENTIAL QUALIFICATION QUESTIONNAIRE

EXPERIENCE DATA		DATE (DAY, MONTH, YEAR) 08/12/2019		FEIN 45-4058762																																	
1. FIRM NAME Encompass Services, LLC		2. HOME OFFICE BUSINESS ADDRESS 14800 St Mary's Lane Ste 230 Houston, TX 77079		3. FORMER FIRM NAME																																	
4. HOME OFFICE TELEPHONE 832-781-4800	5. ESTABLISHED (YEAR) 2011	6. TYPE OWNERSHIP <u>Individual</u> Corporation <u>Partnership</u> Joint-Venture		6a. WV REGISTERED DBE YES <input type="radio"/> NO <input checked="" type="radio"/>																																	
7. PRESENT OFFICES: ADDRESS/ TELEPHONE/ PERSON IN CHARGE/ NO. PERSONNEL EACH OFFICE 105 N. Court St., Ste B, Ripley WV 25271-304-746-4734 Kevin Shaffer 75 205 Capital St., Ste 502, Charleston, WV 25301-304-590-4729 William Whitman 7 1370 Washington Pike, Ste 308, Bridgeville, PA 15017-412-564-5215-Jeff Conaway 22 14800 St. Mary's Lane, Ste 230, Houston, TX 77079-281-835-4024-Trisha Lund 72 394 Lake Ave South, Ste. 510D, Duluth, MN 55802-218-464-1391-Jerry Sinnott-Corporate Admin Office 5 410 N. Walnut Avenue, Ste 100, Oklahoma City, OK 73104, 918-551-6426 Joseph Arsee- 18 14 Maine Street, Ste 308, Brunswick ME 04011-207-406-4681, BJ Parkin 7 56 Central Ave. Ste 103, Asheville, NC 28801-828-575-2118, Tyler Hastings 16 350 Interlocken Blvd Ste 350, Broomfield, CO 28801- 720-693-9343. Paul DeGraff 76																																					
8. NAMES OF PRINCIPAL OFFICIALS OR MEMBERS OF FIRM Jeremiah Horne, Vice President, 281-955-6080 Gerald Sinnott, VP of Finance, 218-626-5033			8a. NAME, TITLE, & TELEPHONE NUMBER - OTHER PRINCIPALS																																		
9. PERSONNEL BY DISCIPLINE																																					
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<u>82</u> TOTAL PERSONNEL																																					
10. IF SUBMITTAL IS BY JOINT-VENTURE, LIST PARTICIPATING FIRMS & OUTLINE SPECIFIC AREAS OF RESPONSIBILITY (INCLUDING ADMINISTRATIVE, TECHNICAL & FINANCIAL) FOR EACH FIRM. (Each participating Firm Must Complete a "Consultant Confidential Qualification Questionnaire" If a copy is Not On File With The Division).																																					
10a. HAS THIS JOINT-VENTURE WORKED TOGETHER BEFORE? <input type="checkbox"/> YES <input type="checkbox"/> NO																																					

11. OUTSIDE KEY CONSULTANTS/ASSOCIATES ANTICIPATED TO BE USED. Attach "Consultant Confidential Qualification Questionnaire" for each if copy is not on with the Division.

NAME AND ADDRESS	SPECIALITY	WORKED WITH BEFORE
Tuck Aerial Mapping (pre-certified) 4632 Aerial Way Big Stone Gap, VA 24219 ESP Associates (pre-certified) One Williamsburg Place, Ste. G-5, Box 13 Warrendale, PA 15086	Aerial Photogramerty Mobile Mapping	X YES — NO

12. A. Are you experienced in Traffic Engineering?

YES Describe:

NO

B. Are you experience in Soil Analysis?

YES Describe:

NO

C. Do you produce your own Aerial Photography and Develop Contour Mapping?

YES Describe:

We have a sub fly and produce photography but we develop the contours from their data. We have in-house UAV services

NO

D. Do you perform your own bridge and/or structural design?

YES Describe:

NO

13. Indicate in order of precedence using "1", "2", "3", etc., the types of work your firm is particularly qualified to perform by virtue of experience and training of members and associates. (Note: Work specialties not sufficiently identified by general categories are to be listed separately below.)

- () AERIAL PHOTOGRAPHY
- () ACOUSTICS-NOISE ABATEMENT
- () ARCHEOLOGICAL-CULTURAL RESOURCE
- () BRIDGES-STRUCTURAL
- () COMMERCIAL BUILDINGS
- () CONSTRUCTION MANAGEMENT
- () DAM-IRRIGATION
- () ELECTRICAL FACILITIES
- () ENVIRONMENTAL-EIS/EIA
- () FLOOD CONTROL-WATER RESOURCES
- () GEOTECHNICAL
- () HIGHWAYS-STREETS
- () HOUSING
- () HVAC
- () LABORATORIES
- () LIGHTING-EXTERIOR
- () MANUALS
- () MASTER PLNG.-SITE DEVELOPMENT
- () PHOTOGRAMMETRY
- () POWER-HEATING PLANTS
- () PUBLIC BUILDINGS
- () RAILROAD-RAPID TRANSIT
- () RECREATION FACILITIES
- (1) SURVEYING
- () UTILITIES
- () VALUE ANALYSIS
- () WATER-SEWAGE

14. PERSONAL HISTORY STATEMENT OF PRINCIPALS AND ASSOCIATES (Furnish complete data but keep to essentials)

NAME (Last, First, Middle Initial) Sinnott, Gerald T	YEARS OF EXPERIENCE		
	AS PRINCIPAL IN THIS FIRM 5	AS PRINCIPAL IN OTHER FIRMS 0	OTHER THAN PRINCIPAL 0

EDUCATION (Degree, Year, Specialization)
BA, 1983, Business Administration

MEMBERSHIP IN PROFESSIONAL ORGANIZATIONS n/a	REGISTRATION (Type, Year, State) n/a
---	---

14. PERSONAL HISTORY STATEMENT OF PRINCIPALS AND ASSOCIATES (Furnish complete data but keep to essentials)

NAME (Last, First, Middle Initial) Whitman, William J	YEARS OF EXPERIENCE		
	AS PRINCIPAL IN THIS FIRM 8	AS PRINCIPAL IN OTHER FIRMS 1	OTHER THAN PRINCIPAL 12

EDUCATION (Degree, Year, Specialization)
n/a

MEMBERSHIP IN PROFESSIONAL ORGANIZATIONS NSPS, Pennsylvania Society of Land Surveyors	REGISTRATION (Type, Year, State) PLS# [REDACTED] 2019, Virginia PLS# [REDACTED] 2019, West Virginia PLS# [REDACTED] 2019, Kentucky PLS# [REDACTED] 2019, Tennessee PLS# [REDACTED] 2019, Pennsylvania PLS# [REDACTED] 2019 New York
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14. PERSONAL HISTORY STATEMENT OF PRINCIPALS AND ASSOCIATES (Furnish complete data but keep to essentials)

NAME (Last, First, Middle Initial)	YEARS OF EXPERIENCE		
	AS PRINCIPAL IN THIS FIRM	AS PRINCIPAL IN OTHER FIRMS	OTHER THAN PRINCIPAL

EDUCATION (Degree, Year, Specialization)

MEMBERSHIP IN PROFESSIONAL ORGANIZATIONS	REGISTRATION (Type, Year, State)
--	----------------------------------

15. PRESENT ACTIVITIES ON WHICH YOU ARE THE DESIGNATED ENGINEER OF RECORD

PROJECT NAME, TYPE AND LOCATION	NAME AND ADDRESS OF OWNER	ESTIMATED CONSTRUCTION COST	PERCENT COMPLETE
TCARP-Traverse City, Michigan; control survey, preliminary design survey, as-built survey	American Surveying & Engineering 841 North Galena Ave. Dixon, IL 61021	\$370,000 Survey Fee - \$314,000	85%
Mountain Valley Pipeline Project/South Gate Project	Mountain Valley Pipeline, LLC 2200 Energy Drive Canonsburg, PA 15317	\$30,000,000 Survey Fee - \$24,000,000	80%
Maddie Project	Williams 8710 Port Jackson Ave, NW North Canton, OH 44720	\$250,000 Survey Fee - \$190,000	76%
Byhalia Connection Project	Plains All American 333 Clay Street - Suite 1600 Houston, TX 77002	\$400,000 Survey Fee - \$130,000	32%
SouthGate Project	Mountain Valley Pipeline, LLC 2200 Energy Drive Canonsburg, PA 15317	\$800,000 Survey Fee - \$710,000	88%
Equitrans Well Connect Projects	ESI 1341 Old Freedom Road Cranberry TWP, PA 16066	\$120,000 Survey Fee - \$30,000	25%
Susquehanna County Lease Project	Cabot Midstream N 2000 Park Lane - Suite 300 Pittsburgh, PA 15275	\$100,000 Survey Fee - \$80,000	80%
TOTAL NUMBER OF PROJECTS: 7		TOTAL ESTIMATED CONSTRUCTION COSTS: \$32,040,000 TOTAL ESTIMATED SURVEY FEES: \$25,454,000	

16. PRESENT ACTIVITIES ON WHICH YOU ARE ASSOCIATED WITH OTHERS

PROJECT NAME, TYPE AND LOCATION	NATURE OF FIRMS RESPONSIBILITY	NAME AND ADDRESS OF OWNER	ESTIMATED COMPLETION DATE	ESTIMATED CONSTRUCTION COST	
				ENTIRE PROJECT	YOUR FIRMS RESPONSIBILITY
NNG Mackville to Bushton Project	Prelim Survey	EN Engineering 28100 Torch Parkway Warrenville, IL 60555	4/1/20	\$40,000	100%
UGI Montadon Project	Prelim Survey		8/1/20	\$25,000	100%
BP Cincinnati HDD Project	Prelim Survey		4/1/20	\$36,000	100%
Duke Victory of America	Prelim Survey - As-Built	HDR 11 Stanwix St. - Suite 800 Pittsburgh, PA 15222	11/1/20	\$140,000	100%
Duke Pleasant Valley Pipeline Replacement	Prelim Survey - As-Built		2/1/20	\$90,000	100%
Niagara Mohawk Pipeline Survey National Grid Facility Surveys National Grid Drafting Support		CHA	1/1/21	\$800,000	100%
TC Energy State Line Project	Construction Staking	Entech Engineering 201 Penn Street Suite 300 Reading, PA 19603	4/1/20	\$30,000	100%
TC Energy Linden Church Project	Construction Staking		3/1/20	\$25,000	100%

17. COMPLETED WORK WITHIN LAST 10 YEARS ON WHICH YOU WERE THE DESIGNATED ENGINEER OF RECORD				
PROJECT NAME, TYPE AND LOCATION	NAME AND ADDRESS OF OWNER	ESTIMATED CONSTRUCTION COST	YEAR	CONSTRUCTED (YES OR NO)
West Lake High Pressure Distrubuition, Boundary Survey, Florida	Florida Public Utility 3500 Parkway Lane, STE 500 Peachtree Corners, GA	Survey Fee \$129,875	2019	
University Avenue ADA Design Survey	WV Department of Transportation - Division of Highways 1900 Kanawha Blvd E Building 5 Charleston, WV 25305	Survey Fee \$25,000	2016	
WVDOH Bemis Truss Bridge Project	Ohio Bridge Corporation 201 Wheeling Ave Cambridge, OH 43725	Survey Fee \$25,000	2016	
WVDOH Dundon Road Bridge Project	Ohio Bridge Corporation 201 Wheeling Ave Cambridge, OH 43725	Survey Fee - \$20,000	2016	

18. COMPLETED WORK WITHIN LAST 10 YEARS ON WHICH YOU WERE ASSOCIATED WITH OTHER FIRMS (INDICATE PHASE OF WORK FOR WHICH YOUR FIRM WAS RESPONSIBLE)

PROJECT NAME, TYPE AND LOCATION	NAME AND ADDRESS OF OWNER	ESTIMATED CONSTRUCTION COST OF YOUR FIRM'S PORTION	YEAR	CONSTRUCTED (YES OR NO)	FIRM ASSOCIATED WITH

19. Use this space to provide any additional information or description of resources supporting your firm's qualifications to perform work for the West Virginia Division of Highways.

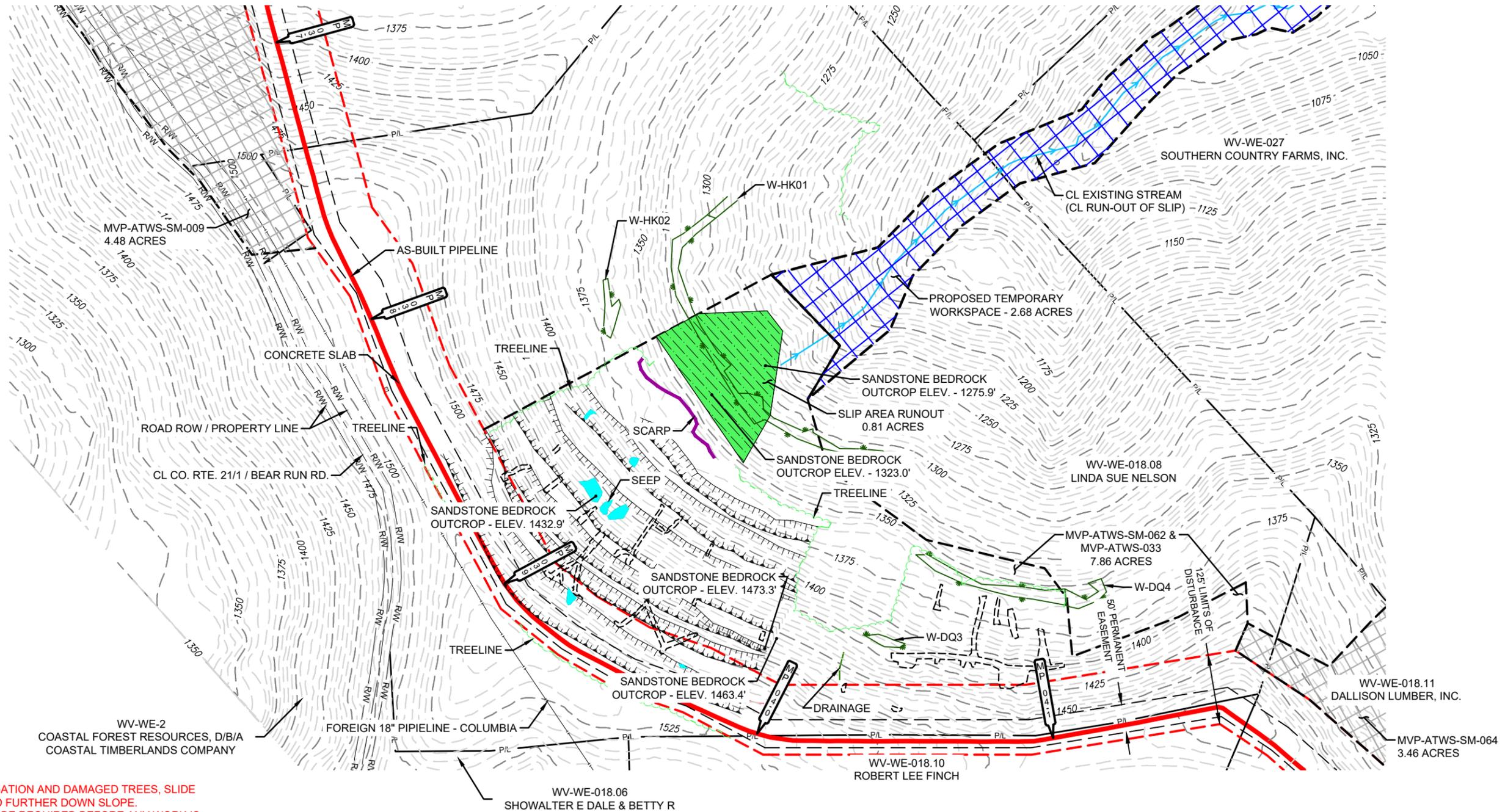
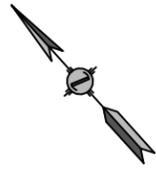
20. The foregoing is a statement of facts.

Signature: 
 Printed Name: Austin Smith

Title: VP of Operations

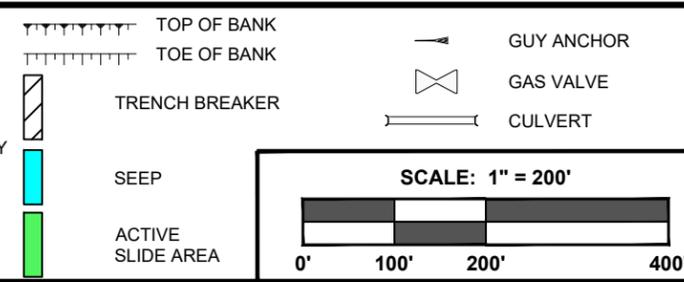
Date: 1-13-20

NOTE: THIS DOCUMENT WILL BECOME VOID AFTER DECEMBER 31 IN CALENDAR YEAR OF DATE HEREON.



NOTES:
 1: DUE TO HEAVY VEGETATION AND DAMAGED TREES, SLIDE RUNOUT MAY EXTEND FURTHER DOWN SLOPE.
 2: A "ONE CALL" WILL BE REQUIRED BEFORE ANY WORK IS TO BE PERFORMED.

LEGEND	
	AS-BUILT PIPELINE
	FOREIGN PIPELINE
	PERMANENT ACCESS RD
	DRAIN TILE
	FENCE LINE
	OVERHEAD POWER
	OVERHEAD TELEPHONE
	C/L STREAM
	ROCK CHANNEL
	C/L ROAD
	C/L RAILROAD
	WETLAND
	TOWNSHIP BOUNDARY
	PROPERTY LINE
	MILEPOST (TENTHS OF A MILE)
	POWER/TELE POLE
	TOP OF BANK
	TOE OF BANK
	TRENCH BREAKER
	SEEP
	ACTIVE SLIDE AREA
	GUY ANCHOR
	GAS VALVE
	CULVERT



REV	DATE	BY	DESCRIPTION	CHK.
2	11/18/19	TGF	ADDED ROCK CHANNELS / UPDATED TREE LINE	JAW
1	10/23/19	TGF	UPDATED CONTOURS / ADDED SEEP AREA AND TREE LINE	JAW
0	09/20/19	CDA	ISSUE FOR REVIEW	JAW

PROJECT NO:	61538
ENCOMPASS SERVICES, LLC 1370 WASHINGTON PIKE, SUITE 308 BRIDGEVILLE, PA 15017	

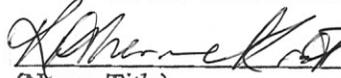
MOUNTAIN VALLEY PIPELINE, LLC

MEGA SLIP TEMPORARY REPAIR TOPO
MP 4.0 / BEAR RUN RD.

WEST VIRGINIA

WETZEL COUNTY	DATE: 09/20/19	DWG. NO.
DRAWN BY: CDA	DATE: 09/20/19	A-SA-WV-WE-018.08-03
CHECKED BY: JAW	APP BY: TN	SHEET NO.
SCALE: 1"=200'		2

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.

 Director of Public Policy and Government Affairs

 (Name, Title)
 Katherine Kraft, Director of Public Policy and Government Affairs

 (Printed Name and Title)
 165 South Union Blvd, Ste 100, Lakewood, CO 80228

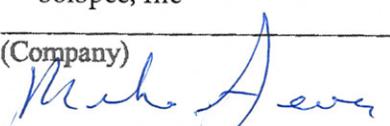
 (Address)
 (970) 541.8636 / NA

 (Phone Number) / (Fax Number)
 kkraft@solspec.io

 (email address)

CERTIFICATION AND SIGNATURE: By signing below, or submitting documentation through wvOASIS, I certify that I have reviewed this Solicitation 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 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 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.

SolSpec, Inc

 (Company)
 Contract Manager

 (Authorized Signature) (Representative Name, Title)
 Mike Sever, Contract Manager

 (Printed Name and Title of Authorized Representative)
 June 29, 2020

 (Date)
 (970) 227.9738 / NA

 (Phone Number) (Fax Number)

ADDENDUM ACKNOWLEDGEMENT FORM
SOLICITATION NO.:

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)

- | | |
|--|--|
| <input checked="" type="checkbox"/> Addendum No. 1 | <input type="checkbox"/> Addendum No. 6 |
| <input type="checkbox"/> Addendum No. 2 | <input type="checkbox"/> Addendum No. 7 |
| <input type="checkbox"/> Addendum No. 3 | <input type="checkbox"/> Addendum No. 8 |
| <input type="checkbox"/> Addendum No. 4 | <input type="checkbox"/> Addendum No. 9 |
| <input type="checkbox"/> Addendum No. 5 | <input type="checkbox"/> 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.

SolSpec, Inc

Company _____

 _____
Authorized Signature

June 29, 2020

Date _____

NOTE: This addendum acknowledgement should be submitted with the bid to expedite document processing.

REQUEST FOR QUOTATION
[Mapping Services in Northern WV]

7.1.3 Failure to comply with any laws, rules, and ordinances applicable to the Contract Services provided under this Contract.

7.1.4 Failure to remedy deficient performance upon request.

7.2 The following remedies shall be available to Agency upon default.

7.2.1 Immediate cancellation of the Contract.

7.2.2 Immediate cancellation of one or more release orders issued under this Contract.

7.2.3 Any other remedies available in law or equity.

8. MISCELLANEOUS:

8.1 **No Substitutions:** Vendor shall supply only Contract Items submitted in response to the Solicitation unless a contract modification is approved in accordance with the provisions contained in this Contract.

8.2 **Vendor Supply:** Vendor must carry sufficient inventory of the Contract Items being offered to fulfill its obligations under this Contract. By signing its bid, Vendor certifies that it can supply the Contract Items contained in its bid response.

8.3 **Reports:** Vendor shall provide quarterly reports and annual summaries to the Agency showing the Agency's items purchased, quantities of items purchased, and total dollar value of the items purchased. Vendor shall also provide reports, upon request, showing the items purchased during the term of this Contract, the quantity purchased for each of those items, and the total value of purchases for each of those items. Failure to supply such reports may be grounds for cancellation of this Contract.

8.4 **Contract Manager:** During its performance of this Contract, Vendor must designate and maintain a primary contract manager responsible for overseeing Vendor's responsibilities under this Contract. The Contract manager must be available during normal business hours to address any customer service or other issues related to this Contract. Vendor should list its Contract manager and his or her contact information below.

Contract Manager: Mike Sever, Contract Manager

Telephone Number: (970) 227.9738

Fax Number: NA

REQUEST FOR QUOTATION
[Mapping Services in Northern WV]

Email Address: msever@solspec.io

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 applies to contractors and their sub-contractors and 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:	SolSpec, Inc
Tax ID #:	EIN # 81-5450648
Address:	165 S Union Blvd, STE 100
City, State, & Zip:	Lakewood, CO 80228
Phone Number:	(970) 227.9738
Email Address:	msever@solspec.io

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. To obtain an OFT, you may contact the AVS Office at 800-643-9748 or from the AVS website at: <https://avss.osmre.gov/>. Instructions for how to download an OFT from the AVS can be found at: <https://www.osmre.gov/programs/AVS/aml-instructions.pdf>.

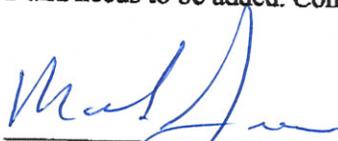
Part C: Certifying and updating information in the AVS

Select only one of the following options, follow the instructions for that option, and sign and date below.

I, Mike Sever, have express authority to certify that:
(Print Name)

- 1. Our business is in the AVS and 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 but needs to be updated. If you select this option you must attach an Entity OFT from the AVS to this form. Use Part D to provide the missing or corrected information.
- 3. Our business is not in the AVS and needs to be added. Complete Part D.

06.29.2020
Date


Signature

Contract Manager
Title

Part D: OFT Information

Contractor's Business Name: SolSpec, 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 no longer with your business.

Name: Brent Huwa
 Address: Keensburg, CO
 Begin Date: 02.2017
 End Date: NA
 % Ownership: 43.95
 Position/Title: Board Member
 Phone Number: _____

Name: Tobias Kraft
 Address: Golden, CO
 Begin Date: 02.2017
 End Date: NA
 % Ownership: 19.53
 Position/Title: CEO
 Phone Number: _____

Name: Tyron Huwa
 Address: Keensburg, CO
 Begin Date: 02.2017
 End Date: NA
 % Ownership: 17.09
 Position/Title: Board Member
 Phone Number: _____

Name: Corey Huwa
 Address: Keenesburg, CO
 Begin Date: 02.2017
 End Date: NA
 % Ownership: 17.09
 Position/Title: Board Member
 Phone Number: _____

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.

Public reporting burden for this form is estimated to range from 15 minutes to one hour, with an average of 30 minutes per response, including time for reviewing instructions, gather and maintaining data, and completing and reviewing the form. You may direct comments regarding the burden estimate or any other aspect of this form to the Information Collection Clearance Officer, Office of Surface Mining Reclamation and Enforcement, 1849 C Street, NW, Room 4559, Washington, DC 20240.

Part D: OFT Information

Contractor's Business Name: SolSpec, Inc

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- 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 no longer with your business.

Name: Sam Acheson
 Address: Fort Collins, CO
 Begin Date: 11.2019
 End Date: NA
 % Ownership: NA
 Position/Title: VP of Operations
 Phone Number: _____

Name: Katherine Kraft
 Address: Golden, CO
 Begin Date: 02.2019
 End Date: NA
 % Ownership: NA
 Position/Title: Director of Public Policy and Govt Affairs
 Phone Number: _____

Name: Seth Tribbey
 Address: Denver, CO
 Begin Date: 11.2019
 End Date: NA
 % Ownership: NA
 Position/Title: VP of Sales
 Phone Number: _____

Name: Nathan Casler
 Address: Evergreen, CO
 Begin Date: 09/2018
 End Date: NA
 % Ownership: NA
 Position/Title: VP of Technology
 Phone Number: _____

PAPERWORK REDUCTION STATEMENT

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- 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 no longer with your business.

Name: David Ferrara
 Address: Lakewood, CO
 Begin Date: 07.2019
 End Date: NA
 % Ownership: NA
 Position/Title: VP of Finance
 Phone Number: _____

Name: _____
 Address: _____
 Begin Date: _____
 End Date: _____
 % Ownership: _____
 Position/Title: _____
 Phone Number: _____

Name: _____
 Address: _____
 Begin Date: _____
 End Date: _____
 % Ownership: _____
 Position/Title: _____
 Phone Number: _____

Name: _____
 Address: _____
 Begin Date: _____
 End Date: _____
 % Ownership: _____
 Position/Title: _____
 Phone Number: _____

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.

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West Virginia Ethics Commission Disclosure of Interested Parties to Contracts (Required by W. Va. Code § 6D-1-2)

Name of Contracting Business Entity: SolSpec, Inc Address: 165 S Union Blvd, Ste 100
Lakewood, CO 80228

Name of Authorized Agent: Mike Sever Address: Same as above

Contract Number: _____ Contract Description: _____

Governmental agency awarding contract: _____

Check here if this is a Supplemental Disclosure

List the Names of Interested Parties to the contract which are known or reasonably anticipated by the contracting business entity for each category below (attach additional pages if necessary):

1. Subcontractors or other entities performing work or service under the Contract

Check here if none, otherwise list entity/individual names below.

Air Data Solutions, Inc
Encompass Energy Services

2. Any person or entity who owns 25% or more of contracting entity (not applicable to publicly traded entities)

Check here if none, otherwise list entity/individual names below.

Brent Huwa

3. Any person or entity that facilitated, or negotiated the terms of, the applicable contract (excluding legal services related to the negotiation or drafting of the applicable contract)

Check here if none, otherwise list entity/individual names below.

Signature: 

Date Signed: 06/29/2020

Notary Verification

State of Colorado, County of Jackson:
I, Mike Sever

the authorized agent of the contracting business entity listed above, being duly sworn, acknowledge that the Disclosure herein is being made under oath and under the penalty of perjury.

Taken, sworn to and subscribed before me this 29 day of June, 2020.

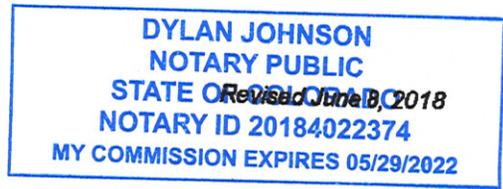

Notary Public's Signature

To be completed by State Agency:

Date Received by State Agency: _____

Date submitted to Ethics Commission: _____

Governmental agency submitting Disclosure: _____



STATE OF WEST VIRGINIA
Purchasing Division
PURCHASING AFFIDAVIT

CONSTRUCTION CONTRACTS: Under W. Va. Code § 5-22-1(i), the contracting public entity shall not award a construction contract to any bidder that is known to be in default on any monetary obligation owed to the state or a political subdivision of the state, including, but not limited to, obligations related to payroll taxes, property taxes, sales and use taxes, fire service fees, or other fines or fees.

ALL CONTRACTS: Under W. Va. Code §5A-3-10a, no contract or renewal of any contract may be awarded by the state or any of its political subdivisions to any vendor or prospective vendor when the vendor or prospective vendor or a related party to the vendor or prospective vendor is a debtor and: (1) the debt owed is an amount greater than one thousand dollars in the aggregate; or (2) the debtor is in employer default.

EXCEPTION: The prohibition listed above does not apply where a vendor has contested any tax administered pursuant to chapter eleven of the W. Va. Code, workers' compensation premium, permit fee or environmental fee or assessment and the matter has not become final or where the vendor has entered into a payment plan or agreement and the vendor is not in default of any of the provisions of such plan or agreement.

DEFINITIONS:

"Debt" means any assessment, premium, penalty, fine, tax or other amount of money owed to the state or any of its political subdivisions because of a judgment, fine, permit violation, license assessment, defaulted workers' compensation premium, penalty or other assessment presently delinquent or due and required to be paid to the state or any of its political subdivisions, including any interest or additional penalties accrued thereon.

"Employer default" means having an outstanding balance or liability to the old fund or to the uninsured employers' fund or being in policy default, as defined in W. Va. Code § 23-2c-2, failure to maintain mandatory workers' compensation coverage, or failure to fully meet its obligations as a workers' compensation self-insured employer. An employer is not in employer default if it has entered into a repayment agreement with the Insurance Commissioner and remains in compliance with the obligations under the repayment agreement.

"Related party" means a party, whether an individual, corporation, partnership, association, limited liability company or any other form or business association or other entity whatsoever, related to any vendor by blood, marriage, ownership or contract through which the party has a relationship of ownership or other interest with the vendor so that the party will actually or by effect receive or control a portion of the benefit, profit or other consideration from performance of a vendor contract with the party receiving an amount that meets or exceeds five percent of the total contract amount.

AFFIRMATION: By signing this form, the vendor's authorized signer affirms and acknowledges under penalty of law for false swearing (W. Va. Code §61-5-3) that: (1) for construction contracts, the vendor is not in default on any monetary obligation owed to the state or a political subdivision of the state, and (2) for all other contracts, that neither vendor nor any related party owe a debt as defined above and that neither vendor nor any related party are in employer default as defined above, unless the debt or employer default is permitted under the exception above.

WITNESS THE FOLLOWING SIGNATURE:

Vendor's Name: Solspec, Inc.
Authorized Signature: [Signature] Date: 06/29/2020
State of Colorado
County of Jefferson, to-wit:

Taken, subscribed, and sworn to before me this 29 day of June, 2020.
My Commission expires 05-29, 2022

AFFIX SEAL HERE

NOTARY PUBLIC [Signature]

DYLAN JOHNSON
NOTARY PUBLIC
STATE OF COLORADO
NOTARY ID 20184022374
MY COMMISSION EXPIRES 05/29/2022