

2. Amendment/Modification No. P00002	3. Effective Date 2004SEP29	4. Requisition/Purchase Req No. SEE SCHEDULE	5. Project No. (If applicable)
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6. Issued By TACOM WARREN AMSTA-AQ-ABGD PAM THORNTON (586)574-8899 WARREN, MICHIGAN 48397-5000 HTTP://CONTRACTING.TACOM.ARMY.MIL EMAIL: THORNTOP@TACOM.ARMY.MIL	Code	W56HZV	7. Administered By (If other than Item 6) DCMA DENVER ORCHARD PLACE 2 5975 GREENWOOD PLAZA BLVD. SUITE 200 ENGLEWOOD CO 80111-4715	Code	S0602A
			SCD C PAS NONE ADP PT HQ0339		

8. Name And Address Of Contractor (No., Street, City, County, State and Zip Code) AUTONOMOUS SOLUTIONS, INC. 1946 S 1600 W WELLSVILLE, UT. 84339-9601	<input type="checkbox"/>	9A. Amendment Of Solicitation No.
	<input type="checkbox"/>	9B. Dated (See Item 11)
	<input checked="" type="checkbox"/>	10A. Modification Of Contract/Order No. W56HZV-04-C-0017
	<input type="checkbox"/>	10B. Dated (See Item 13) 2003DEC04
TYPE BUSINESS: Other Small Business Performing in U.S.		
Code 1WQD2	Facility Code	

11. THIS ITEM ONLY APPLIES TO AMENDMENTS OF SOLICITATIONS

The above numbered solicitation is amended as set forth in item 14. The hour and date specified for receipt of Offers is extended, is not extended.

Offers must acknowledge receipt of this amendment prior to the hour and date specified in the solicitation or as amended by one of the following methods: (a) By completing items 8 and 15, and returning _____ copies of the amendments; (b) By acknowledging receipt of this amendment on each copy of the offer submitted; or (c) By separate letter or telegram which includes a reference to the solicitation and amendment numbers. **FAILURE OF YOUR ACKNOWLEDGMENT TO BE RECEIVED AT THE PLACE DESIGNATED FOR THE RECEIPT OF OFFERS PRIOR TO THE HOUR AND DATE SPECIFIED MAY RESULT IN REJECTION OF YOUR OFFER.** If by virtue of this amendment you desire to change an offer already submitted, such change may be made by telegram or letter, provided each telegram or letter makes reference to the solicitation and this amendment, and is received prior to the opening hour and date specified.

12. Accounting And Appropriation Data (If required)
SEE SECTION G

13. THIS ITEM ONLY APPLIES TO MODIFICATIONS OF CONTRACTS/ORDERS

It Modifies The Contract/Order No. As Described In Item 14.

<input type="checkbox"/>	A. This Change Order is Issued Pursuant To: The Contract/Order No. In Item 10A.	The Changes Set Forth In Item 14 Are Made In
<input type="checkbox"/>	B. The Above Numbered Contract/Order Is Modified To Reflect The Administrative Changes (such as changes in paying office, appropriation data, etc.) Set Forth In Item 14, Pursuant To The Authority of FAR 43.103(b).	
<input checked="" type="checkbox"/>	C. This Supplemental Agreement Is Entered Into Pursuant To Authority Of: Mutual Agreement	
<input type="checkbox"/>	D. Other (Specify type of modification and authority)	

E. IMPORTANT: Contractor is not, is required to sign this document and return _____ copies to the Issuing Office.

14. Description Of Amendment/Modification (Organized by UCF section headings, including solicitation/contract subject matter where feasible.)
SEE SECOND PAGE FOR DESCRIPTION

Except as provided herein, all terms and conditions of the document referenced in item 9A or 10A, as heretofore changed, remains unchanged and in full force and effect.

15A. Name And Title Of Signer (Type or print)	16A. Name And Title Of Contracting Officer (Type or print) MICHAEL L. CIONI CIONIM@TACOM.ARMY.MIL (586)574-7070		
15B. Contractor/Offeror (Signature of person authorized to sign)	15C. Date Signed	16B. United States Of America By _____ /SIGNED/ (Signature of Contracting Officer)	16C. Date Signed 2004SEP29

CONTINUATION SHEET**Reference No. of Document Being Continued****Page 2 of 15**

PIIN/SIIN W56HZV-04-C-0017

MOD/AMD P00002

Name of Offeror or Contractor: AUTONOMOUS SOLUTIONS, INC.

SECTION A - SUPPLEMENTAL INFORMATION

PROGRAM: Motion Planning for Omni-Directional Vehicles

PURPOSE OF MODIFICATION: Incorporate and Fund SBIR Phase II Plus

PREVIOUS NEGOTIATED CONTRACT VALUE: \$ 729,400.39

NEGOTIATED VALUE THIS ACTION: \$ 599,089.66

TOTAL NEGOTIATED CONTRACT VALUE: \$1,328,490.05

PREVIOUS OBLIGATED CONTRACT AMOUNT: \$ 729,400.39

OBLIGATED AMOUNT THIS ACTION: \$ 599,089.66

TOTAL OBLIGATED CONTRACT AMOUNT: \$1,328,490.05

1. This is a bilateral modification.
2. The purpose of this modification P00002 is to Incorporate and Fund additional Scope of Work (SOW) as SBIR Phase II Plus and Phase III (TARDEC "matching funds").
3. Incorporate additional Phase II Plus & Phase III Scope of Work:
 - a. Section C.2.3 through C.2.4 is hereby added.
 - b. Paragraphs C.1.2, C.3.2.1, C.3.3, C.4.3 and C.4.4 are hereby revised to include the vehicles described in C.2.3 and C.2.4.
 - c. Performance period is hereby extended from 4 December 2004 to 4 December 2006. Paragraph F.4 "Duration of Performance" is hereby revised as shown on the attached F.4.
 - d. CDRL A002 and A003 are revised as shown on the attached pages.
 - e. The attached Section C, SOW is hereby incorporated and shall replace previous Section C.
 - f. The attached F.4 is hereby incorporated and shall preplace the previous F.4.
 - g. The attached CDRL is hereby incorporated and shall replace the previous CDRL.
4. Funding:
 - a. As a result of incorporating additional Phase II Plus and Phase III Scope of Work, the estimated cost is increased by \$570,561.58 from \$694,667.04 to \$1,265,228.62; the fixed fee is increased by \$28,528.08 from \$34,733.35 to \$63,261.43; the total amount is increased by \$599,089.66 from \$729,400.39 to \$1,328,490.05.
 - b. Subclin 000102 is established in the amount of \$250,000.00; Subclin 000103 is established in the amount of \$83,159.66.00; Subclin 000104 is established in the amount of \$165,930.00, Subclin 000105 is established in the amount of \$100,000.00.
5. The following clauses, attached, are hereby incorporated:
 - a. DFARS 252.226-7001, Utilization of Indian Organizations, Indian-Owned Economic Enterprises, and Native Hawaiian Small Business Concerns;
 - b. FAR 52.204-7, Central Contractor Registration;
 - c. DFARS 252.232-7003, Electronic Submission of Payment Requests.
6. The following clauses, attached, are hereby updated:
 - a. TACOM 52.204-4005, Required Use of Electronic Contracting;
 - b. FAR 52.202-1, Definitions;
 - c. FAR 52.215-15, Pension Adjustments and Asset Revisions;
 - d. FAR 52.219-8, Utilization of Small Business Concerns;
 - e. FAR 52.225-13, Restrictions on Certain Foreign Purchases;
 - f. FAR 52.245-5, Government Property (Cost-Reimbursement, Time-and-Material, or Labor-Hour Contracts);
 - g. FAR 52.249-6, Termination (Cost Reimbursement);
 - h. DFARS 252.225-7012, Preference for Certain Domestic Commodities;
 - i. DFARS 252.225-7016, Restriction on Acquisition of Ball and Roller Bearings.

CONTINUATION SHEET	Reference No. of Document Being Continued PIIN/SIIN W56HZV-04-C-0017 MOD/AMD P00002	Page 3 of 15
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Name of Offeror or Contractor: AUTONOMOUS SOLUTIONS, INC.

- 7. As a result of this Modification P00002, the total contract value is increased by \$599,089.66 from \$729,400.39 to \$1,328,490.05. The total contract obligation is hereby increased by \$599,089.66 from \$729,400.39 to \$1,328,490.05.
- 8. Except as provided herein, all other terms and conditions remain unchanged.

*** END OF NARRATIVE A 002 ***

CONTINUATION SHEET

Reference No. of Document Being Continued
 PIIN/SIIN W56HZV-04-C-0017 MOD/AMD P00002

Name of Offeror or Contractor: AUTONOMOUS SOLUTIONS, INC.

ITEM NO	SUPPLIES/SERVICES	QUANTITY	UNIT	UNIT PRICE	AMOUNT						
0001	<p>SECTION B - SUPPLIES OR SERVICES AND PRICES/COSTS</p> <p><u>OMNI-DIRECTIONAL VEHICLES</u></p> <p>NOUN: MOTION PLAN-OMNI-DIRECT. VEHI SECURITY CLASS: Unclassified</p> <p>Contractor shall furnish all the supplies and services to accomplish the task specified in Section C Scope of Work.</p> <p>Est. Cost: \$1,265,228.62 Fixed Fee: <u>63,261.43</u> Total Amount: \$1,328,490.05</p> <p>(End of narrative B001)</p> <p><u>Inspection and Acceptance</u> INSPECTION: Destination ACCEPTANCE: Destination</p> <p><u>Deliveries or Performance</u></p> <table border="0"> <tr> <td>DLVR SCH</td> <td>PERF COMPL</td> </tr> <tr> <td><u>REL CD</u> <u>QUANTITY</u> <u>DATE</u></td> <td></td> </tr> <tr> <td>001 1 04-DEC-2006</td> <td></td> </tr> </table> <p>\$ 1,328,490.05</p>	DLVR SCH	PERF COMPL	<u>REL CD</u> <u>QUANTITY</u> <u>DATE</u>		001 1 04-DEC-2006		1	LO		\$ 1,328,490.05
DLVR SCH	PERF COMPL										
<u>REL CD</u> <u>QUANTITY</u> <u>DATE</u>											
001 1 04-DEC-2006											
000101	<p><u>OMNI-DIRECTIONAL VEHICLES</u></p> <p>NOUN: MOTION PLAN-OMNI-DIRECT. VEHI PRON: E142C013EH PRON AMD: 05 ACRN: AA AMS CD: 665502M4055 (AMOUNT: \$ 729,400.39)</p>										
000102	<p><u>OMNI-DIRECTIONAL VEHICLES</u></p> <p>NOUN: MOTION PLAN-OMNI-DIRECT. VEHI PRON: E142C013EH PRON AMD: 05 ACRN: AA AMS CD: 665502M4055</p> <p>This subline 000102 is SBIR Phase II Plus funds.</p> <p>(End of narrative B001)</p> <p>(AMOUNT: \$ 250,000.00)</p>										

CONTINUATION SHEET

Reference No. of Document Being Continued
 PIIN/SIIN W56HZV-04-C-0017 MOD/AMD P00002

Name of Offeror or Contractor: AUTONOMOUS SOLUTIONS, INC.

ITEM NO	SUPPLIES/SERVICES	QUANTITY	UNIT	UNIT PRICE	AMOUNT
000103	<p><u>OMNI-DIRECTIONAL VEHICLES</u></p> <p>NOUN: NEW PHII PLUS, AUTO SOL, INC PRON: R342CY04R3 PRON AMD: 01 ACRN: AB AMS CD: 63300549711</p> <p>This subline 000103 is Phase III matching funds.</p> <p>(End of narrative B001)</p> <p>(AMOUNT: \$ 83,159.66)</p>				
000104	<p><u>OMNI-DIRECTIONAL VEHICLES</u></p> <p>NOUN: NEW PHII PLUS, AUTO SOL, INC. PRON: R342CY05R3 PRON AMD: 01 ACRN: AB AMS CD: 63300551511</p> <p>This subline 000104 is Phase III matching funds.</p> <p>(End of narrative B001)</p> <p>(AMOUNT: \$ 165,930.00)</p>				
000105	<p><u>OMNI-DIRECTIONAL VEHICLES</u></p> <p>NOUN: TANK AND AUTO TECH PRON: R342V028R3 PRON AMD: 01 ACRN: AC AMS CD: 622601H9111</p> <p>This subline 000105 is Phase III matching funds.</p> <p>(End of narrative B001)</p> <p>(AMOUNT: \$ 100,000.00)</p>				

CONTINUATION SHEET**Reference No. of Document Being Continued****Page 6 of 15**

PIIN/SIIN W56HZV-04-C-0017

MOD/AMD P00002

Name of Offeror or Contractor: AUTONOMOUS SOLUTIONS, INC.B.3 Funding

B.3.1 The Government shall provide funds under this contract covering the estimated cost and fee hereof on an incremental basis as provided for in the following funding schedule and pursuant to the Contract Clause entitled LIMITATION OF FUNDS. It is estimated that the incremental amounts are sufficient for the performance of work in each of cited periods. The Government may, at its discretion, allot such funds on an incremental basis within each fiscal year. The contractor shall so plan and execute the work required by this contract as to expend and/or commit funds compatible with the schedule set forth below. Whenever the contractor has reason to believe that the funds allotted to this contract for any fiscal year are either insufficient or excessive for the performance of work required in that fiscal year, the Government shall be so notified.

B.3.2 Funding Schedule - Phase II

<u>Performance Period</u>	<u>Amount</u>
FY04 - Award through Dec 04	\$431,981.00
FY05 - Jan 05 through Dec 05	\$297,419.39

B.3.3 Funding Schedule - Phase II+ and Phase III

<u>Performance Period</u>	<u>Amount</u>
FY04 - Award through Dec 06	\$599,089.66

B.4 Funds Allotted. The amount of funds currently allotted to this contract is \$1,328,490.05.

*** END OF NARRATIVE B 003 ***

Name of Offeror or Contractor: AUTONOMOUS SOLUTIONS, INC.

SECTION C - DESCRIPTION/SPECIFICATIONS/WORK STATEMENT
STATEMENT OF WORK

C.1. Introduction

C.1.1. The contractor, acting as an independent contractor and not as an agent of the Government, shall provide the necessary personnel, facilities, materials and services to complete the tasks outlined below.

C.1.2. The contractor shall research and develop three different unmanned ground vehicles, and produce and deliver a total quantity of five prototype vehicles. The first vehicle shall be an intelligent highly mobile platform, the second shall be a low-cost rugged highly maneuverable inspection platform, and the third shall be an unmanned ground vehicle with an extendable arm. The contractor shall produce and deliver one (1) intelligent highly mobile platform, three (3) low-cost rugged highly maneuverable inspection platforms and one (1) unmanned ground vehicle with an extendable arm.

C.2. Scope of Work for Autonomous Solutions Inc. (ASI) Phase II SBIR

In the Phase I effort (contract DAAE07-03-C-L029), ASI demonstrated through simulation various intelligent behaviors for an unmanned ground vehicle (UGV), such as obstacle avoidance, motion planning and self-extrication. In this Phase II contract, ASI will further investigate intelligent behaviors and implement them in physical UGV platforms. ASI shall research, design, develop, build and deliver three different UGV's; one (1) intelligent highly mobile platform as described in C.2.1, three (3) low-cost rugged highly maneuverable inspection platforms as described in C.2.2, and one (1) unmanned ground vehicle with an extendable arm as described in C.2.3. To accomplish this, ASI shall perform the following tasks:

C.2.1. ASI shall research, design, develop, build and deliver a highly mobile intelligent unmanned ground vehicle. The vehicle (in combination with its communications link and operator interface) shall be able to perform the following functions and shall comply with the following performance specifications:

- (a) Weight: The weight of UGV shall not exceed 50 Kg, with the goal that the weight not exceed 35 Kg.
- (b) Range: The UGV shall have a minimum range of 2 Km on level pavement, with the goal of 5 Km (excluding effects of communications limitations).
- (c) Maximum speed: The UGV shall reach a speed of five (5) Kph on a dry level concrete surface, with the goal of ten (10) Kph.
- (d) Slope climb: The UGV shall demonstrate the ability to climb a 60% grade on a dry concrete surface, with a goal of climbing a 100% grade at any speed for a minimum distance of two (2) m.
- (e) Side slope stability: The UGV shall demonstrate the ability to maintain its stability on a side slope grade of 60% on a dry concrete surface, with a goal of maintaining stability on a 100% side slope grade at any speed for a minimum distance of 2 m.
- (f) Staircase: The UGV shall demonstrate the ability to autonomously ascend and descend residential and commercial, interior and exterior staircases that have steps with a minimum vertical rise of 15 cm and a minimum horizontal run 1.5 times the step rise, with a goal of attaining a vertical rise of 30 cm and a horizontal run 1.0 times the step rise.
- (g) Surface conditions: The UGV shall cross the following for a minimum distance of 100 m: loose dry silt, sand, pea gravel, beds of smooth stream stones and crushed rocks up to 15 cm wide, grass up to 1 m tall, and water up to 2 cm deep and goal of crossing water up to 4 cm deep.
- (h) Adaptive driving: The UGV shall automatically detect slope and adjust speed, torque and gait for efficient traverse of the slope.
- (i) Obstacle detection: Using commercial-off-the-shelf (COTS) ultrasonic or infrared detectors, the UGV shall automatically detect positive and negative obstacles within its line of sight and change its gait at sufficient distance to stop before reaching the obstacle.
- (j) Extrication: The UGV shall automatically detect when obstacles, slope and/or surface conditions cannot be traversed (e.g., excessive slip, skid, stuck, or other unfavorable terrain interactions) and extricate itself.
- (k) Driving and navigation: The UGV shall automatically find a route from "A to B," with "A" representing the current position of the UGV, and "B" representing a location specified by the UGV operator. The UGV shall dynamically adjust its path to avoid obstacles that it cannot traverse because they are beyond its performance capabilities. The UGV shall automatically re-plan and navigate to compensate for the effects of the terrain and vehicle motion.
- (l) Global way-point path planning: Assuming data on terrain trafficability is given, the UGV shall demonstrate the ability to plan for scenarios 1 Km in diameter to optimize any one of the following measures of efficiency as selected by the operator: (a) travel time, (b) path length, and (c) power consumption.
- (m) Operator interface: The UGV shall have the option of full wireless remote driving, wireless remote driving with autonomous speed and gait control, or full autonomous operation. The operator interface shall provide video feedback (within the power and penetration capabilities of IEEE 802.11b).
- (n) Vehicle status and progress data: The UGV shall transmit real-time vehicle status and progress data, including, but not limited to position, speed, orientation, battery life, and motor voltage, to the operator console.
- (o) Navigation position location: The UGV shall use standard National Marine Electronics Association (NMEA) stream for navigation (GPS or a seamless equivalent e.g. size, power, weight, interface). The UGV shall be self-locating in GPS/beacon-denied areas with accuracy sufficient for driving distances of at least 5 m, and a desired distance of 10 m on rough, high slip terrain. The UGV shall be self-locating in GPS/beacon-denied areas with accuracy sufficient for driving distances of at least 10 m, and a desired distance of 20 m on benign, low slip terrain.

Name of Offeror or Contractor: AUTONOMOUS SOLUTIONS, INC.

(p) The UGV shall demonstrate the ability to withstand at a minimum a 50 cm drop without damage, with the objective of withstanding drop of 100 cm without damage.

(q) The UGV shall demonstrate the ability of overturning without damage.

C.2.2. ASI shall research, design, develop, build and deliver a total of three (3) highly maneuverable low-cost rugged inspection vehicles. Each vehicle (together with its communications link and operator interface) shall be able to perform the following functions and shall possess the following performance specifications:

(a) Height: The height of inspection vehicle shall not exceed 12 cm high.

(b) Weight: The weight of inspection vehicle shall not exceed 30 Kg required, with the goal that the weight not exceed 20 Kg.

(c) Range: The inspection vehicle shall have a minimum range of 1 Km on level pavement, with the goal of 2 Km.

(d) Endurance: The inspection vehicle shall operate for at least 1-hour duration on pavement.

(e) Obstacle crossing: The inspection vehicle shall demonstrate the ability to drive over, up and down stone obstacles 3 cm high.

(f) Non-line-of-sight driving: The inspection vehicle system shall be capable of wireless remote driving and the operator interface shall provide video feedback adequate for driving, both in line-of-sight and in non-line-of-sight situations (within the power and penetration capabilities of IEEE 802.11b).

(g) Optics: The inspection vehicle shall have a camera and wide-field-of-view optics suitable for driving and narrow-field-of-view optics suitable for under-car inspection tasks.

(h) The inspection vehicle shall be functionally omni-directional.

(i) Production cost: The inspection vehicle shall have production cost not to exceed \$6K (exclusive of camera and communications), with a goal that the production cost be less than \$2K.

(j) Weather resistance: The inspection vehicle shall be weather resistant, i.e. will operate in rain, sun and wind. (Submersible not required).

(k) The inspection vehicle shall withstand a minimum of 50 cm drop without damage, with a goal that it withstand a 100 cm drop without damage.

(l) The inspection vehicle shall have a user controlled pan/tilt camera mount and camera. (The camera is addressed in (g).)

(m) The inspection vehicle shall have active lighting with user-controlled intensity suitable for under-car inspection tasks described in this statement of work.

(n) The inspection vehicle shall demonstrate "Intelligent behavior" if tele-operation link is temporarily broken, such as autonomously retracing its steps a minimum distance of 5 m.

C.2.3. ASI shall research, design, develop, build and deliver a highly maneuverable, low-cost, rugged, inspection vehicle with a user-controlled arm. The vehicle (together with its communications link and operator interface) shall be able to perform the following functions and shall possess the following performance specifications:

(a) Weight: The weight of the vehicle shall not exceed 50 Kg, with the goal that the weight not exceed 30 Kg.

(b) Range: The vehicle shall have a minimum range of 5 Km on level pavement, with the goal of 10 Km (excluding effects of communications limitations).

(c) Endurance: The vehicle shall operate for at least a 10 hour duration on pavement at an average speed of one (1) Kph without refueling or recharging.

(d) Maximum speed: The vehicle shall reach a speed of five (5) Kph on a dry level concrete surface, with the goal of ten (10) Kph.

(e) Slope climb: The vehicle shall demonstrate the ability to climb a 30% grade on a dry concrete surface, with a goal of climbing a 50% grade at any speed for a minimum distance of two (2) m.

(f) Side slope stability: The vehicle shall demonstrate the ability to maintain its stability on a side slope grade of 30% on a dry concrete surface, with a goal of maintaining stability on a 50% side slope grade at any speed for a minimum distance of two (2) m.

(g) Obstacle crossing: The vehicle shall demonstrate the ability to drive over, up and down concrete obstacles 12 cm high.

(h) Running gear: The vehicle shall be functionally omni-directional.

(i) Arm: The vehicle shall have a user controlled arm, which shall be able to perform the following functions and shall possess the following performance specifications:

(1) If equipped with a camera, be able to look into the interior and trunk of a standard sized automobile;

(2) If equipped with a chemical detecting swab, swab relevant areas of a standard sized automobile, such as door handles, bumper, hood and trunk lid;

(3) If equipped with a gripper, grab and lift items up to five (5) cm in diameter and at least one (1) Kg in weight with a goal of three (3) Kg;

(4) If equipped with a digging tool, dig into loose soil up to a depth of 20 cm;

(5) Motion and position independent of platform motion and orientation;

(6) Plug and play interface for payloads.

(j) Operator interface: The operator interface shall be able to perform the following functions and shall possess the following performance specifications (within the power and penetration capabilities of IEEE 802.11b):

(1) Equipped with microphone, speaker, and video monitor;

(2) Transmit and receive audio;

(3) Receive video adequate for driving;

(4) Drive vehicle;

(5) Operate remote arm.

CONTINUATION SHEET	Reference No. of Document Being Continued	Page 9 of 15
	PIIN/SIIN W56HZV-04-C-0017	MOD/AMD P00002

Name of Offeror or Contractor: AUTONOMOUS SOLUTIONS, INC.

- (k) Non-line-of-sight operation: The vehicle system shall be capable of wireless remote driving and arm manipulation, both in line-of-sight and in non-line-of-sight situations (within the power and penetration capabilities of IEEE 802.11b).
- (l) Optics: The vehicle shall have a camera and wide-field-of-view optics suitable for driving.
- (m) Audio: The vehicle shall be equipped with a speaker and microphone and shall be able to transmit and receive audio.
- (n) Production cost: The vehicle, with arm, shall have a production cost not to exceed \$20K (exclusive of camera and communications), with a goal that the production cost be less than \$15K.
- (o) Weather resistance: The vehicle shall be weather resistant, i.e. will operate in rain, sun and wind. (Submersible not required).
- (p) Safety: The vehicle shall be equipped with industry standard safety devices/protocols, such as a kill switch, for vehicles of similar size and weight.
- (q) The vehicle shall have a user controlled pan/tilt camera mount.
- (r) The vehicle shall have active lighting with user-controlled intensity.
- (s) The arm on the vehicle shall be equipped with a camera, suitable for tasks in C.2.1.i.
- (t) The arm of the vehicle shall be equipped with interchangeable tools for digging and gripping.
- (u) The vehicle shall demonstrate "intelligent behavior" if tele-operation link is temporarily broken, such as retracing its steps a minimum distance of 5 m.

C.3. Meetings

C.3.1. Within thirty (30) days after contract award, ASI shall plan and conduct a one (1) day kickoff meeting to be held at TARDEC. ASI shall contact the COR a minimum of two weeks in advance to coordinate the meeting. ASI shall also invite the buyer listed on page one of the contract and the Administrative Contracting Officer (ACO) listed in Section G of the contract.

C.3.2. Interim Progress Reviews:

C.3.2.1 ASI shall plan and conduct six (6) semi-annual Interim Progress Review (IPR) meetings; three (3) of the PRs shall be held at TARDEC and three (3) of the IPRs shall be held at the contractor's facility. We anticipate that the first and third IPR will be held at the contractor's facility and the second and fourth IPR will be held at TARDEC; in the event that circumstances warrant, the COR and the contractor may agree to an alternate sequence of locations. In order to reduce travel costs, ASI shall coordinate the aforementioned meetings with other meetings required between ASI and TARDEC.

C.3.2.2 At a minimum, ASI shall invite the COR, the buyer listed on page one of the contract, and the ACO identified in Section G of the contract a minimum of two weeks in advance to coordinate the meeting.

C.3.3. ASI shall plan and conduct annual software/hardware demonstrations. The annual meetings shall be held in conjunction with the corresponding interim progress review meetings. The final meeting shall include a demonstration that the three systems are capable of all performance specifications described in Sections C.2.1, C.2.2 and C.2.3. At a minimum, ASI shall invite the COR, the buyer listed on page one of the contract, and the ACO identified in Section G of the contract a minimum of two weeks in advance to coordinate the meeting.

C.4. Deliverables

C.4.1. ASI shall submit bi-monthly progress reports in accordance with CDRL item A001. The first bi-monthly progress report is due 60 days after contract award.

C.4.2. ASI shall prepare and submit an interim technical reports, addressing the technical information from Section C.2, to date, in accordance with CDRL item A002. These reports are due 12 and 24 months after award, and shall take the place of the progress report for that reporting period. The report shall contain a summary of the accomplishments, and funds and labor hours expended for the past year. The report shall also include plans for the next year.

C.4.3. ASI shall prepare and submit a draft and final technical report addressing all the technical information concerning the Unmanned Ground Vehicle system described in Section C.2.1, the Inspection Vehicle described in Section C.2.2, and the Unmanned Ground Vehicle with an Extendable Arm described in Section C.2.3 in accordance with CDRL item A003. The report shall include the results of all tests performed on the systems, technical specifications and diagrams of all components of the systems, and instructions detailing the operation of all delivered software and hardware. ASI shall submit the draft technical report thirty four (34) months after contract award. The COR has fourteen (14) days after receipt of the draft to review and comment. ASI shall deliver the final technical report fourteen (14) days after receipt of draft comments.

C.4.4. At the end of the contract, ASI shall deliver to the COR the five prototype unmanned ground systems, both hardware and software, as described in Section C.2. The delivered systems shall be capable of all functions that are described in Section C.2.1, C.2.2 and C.2.3.

CONTINUATION SHEET**Reference No. of Document Being Continued****Page 10 of 15****PIIN/SIIN** W56HZV-04-C-0017**MOD/AMD** P00002**Name of Offeror or Contractor:** AUTONOMOUS SOLUTIONS, INC.

SECTION F - DELIVERIES OR PERFORMANCE

F.3 DATA

F.3.1 The contractor shall submit all reports electronically in accordance with the Contract Data Requirements List (CDRL), (DD Form 1423), Exhibit A, to the following addresses:

karlsenr@tacom.army.mil
kostownp@tacom.army.mil
and
Wayne.Hackett@dcma.mil

F.3.2 All items called for in this contract that cannot be submitted electronically, shall be delivered FOB Destination to:

U.S. Army Tank-automotive and Armaments Command
ATTN: AMSTA-TR-R, MS 263, Robert E. Karlsen
6501 E. 11 Mile Rd.
Warren, Michigan 48397-5000

F.4 DURATION OF PERFORMANCE:

F.4.1 All work required under this contract, including delivery of the Unmanned Ground Vehicles and submission of the final technical report, shall be completed by December 4, 2006.

F.4.1.1 The contractor shall deliver a draft technical report by November 4, 2006.

F.4.1.2 The contractor shall deliver the final technical report fourteen (14) days after receipt of Government comments.

F.4.1.3 The entire contractual efforts, including the delivery of the final technical report, shall be completed by December 4, 2006.

F.4.2 ASI shall deliver the prototype of the highly mobile, intelligent, unmanned ground vehicle described in paragraph C.2.1, both hardware and software, twenty-four (24) months after contract award date.

F.4.3 ASI shall deliver the prototype of the highly maneuverable, low-cost, rugged inspection vehicle described in paragraph C.2.2, both hardware and software, twenty-four (24) months after contract award date.

F.4.4 ASI shall deliver the three additional prototype of the highly maneuverable, low-cost, rugged inspection vehicle described in paragraph C.2.2, both hardware and software, by December 4, 2006. ASI shall deliver the prototype of the highly maneuverable, low-cost, rugged, inspection vehicle with a user-controlled arm described in paragraph C.2.3, both hardware and software, by December 4, 2006.

*** END OF NARRATIVE F 001 ***

CONTINUATION SHEET

Reference No. of Document Being Continued

Page 11 of 15

PIIN/SIIN W56HZV-04-C-0017

MOD/AMD P00002

Name of Offeror or Contractor: AUTONOMOUS SOLUTIONS, INC.

SECTION G - CONTRACT ADMINISTRATION DATA

LINE	PRON/ AMS CD/ ITEM MIPR	ACRN	OBLG STAT/ JOB ORD NO		PRIOR AMOUNT	INCREASE/DECREASE AMOUNT		CUMULATIVE AMOUNT
000102	E142C013EH 665502M4055	AA	1 42C013	\$	0.00	250,000.00	\$	250,000.00
000103	R342CY04R3 63300549711	AB	2 42CY04	\$	0.00	83,159.66	\$	83,159.66
000104	R342CY05R3 63300551511	AB	2 42CY05	\$	0.00	165,930.00	\$	165,930.00
000105	R342V028R3 622601H9111	AC	2 42V028	\$	0.00	100,000.00	\$	100,000.00
					NET CHANGE	\$	599,089.66	

SERVICE NAME	NET CHANGE BY ACRN	ACRN	ACCOUNTING CLASSIFICATION		ACCOUNTING STATION	INCREASE/DECREASE AMOUNT
Army	AA	21	42040000046N6N7EP665502255Y	S20113	W56HZV	\$ 250,000.00
Army	AB	21	42040000046N6N7EP633005255Y	S20113	W56HZV	\$ 249,089.66
Army	AC	21	42040000046N6N7EP622601255Y	S20113	W56HZV	\$ 100,000.00
						NET CHANGE \$ 599,089.66

	PRIOR AMOUNT OF AWARD	INCREASE/DECREASE AMOUNT	CUMULATIVE OBLIG AMT
NET CHANGE FOR AWARD:	\$ 729,400.39	\$ 599,089.66	\$ 1,328,490.05

Status	Regulatory Cite	Title	Date
G-1 ADDED	252.232-7003	ELECTRONIC SUBMISSION OF PAYMENT REQUESTS	JAN/2004

CONTINUATION SHEET**Reference No. of Document Being Continued****Page 12 of 15****PIIN/SIIN** W56HZV-04-C-0017**MOD/AMD** P00002**Name of Offeror or Contractor:** AUTONOMOUS SOLUTIONS, INC.

SECTION H - SPECIAL CONTRACT REQUIREMENTS

<u>Status</u>	<u>Regulatory Cite</u>	<u>Title</u>	<u>Date</u>
H-1 ADDED	252.226-7001	UTILIZATION OF INDIAN ORGANIZATIONS, INDIAN-OWNED ECONOMIC ENTERPRISES, AND NATIVE HAWAIIAN SMALL BUSINESS CONCERNS	OCT/2003
H-2	52.204-4005	REQUIRED USE OF ELECTRONIC CONTRACTING	JUN/2004

CONTINUATION SHEET**Reference No. of Document Being Continued**

Page 13 of 15

PIIN/SIIN W56HZV-04-C-0017

MOD/AMD P00002

Name of Offeror or Contractor: AUTONOMOUS SOLUTIONS, INC.

SECTION I - CONTRACT CLAUSES

<u>Status</u>	<u>Regulatory Cite</u>	<u>Title</u>	<u>Date</u>
I-1	52.202-1	DEFINITIONS	JUL/2004
I-2	52.215-15	PENSION ADJUSTMENTS AND ASSET REVERSIONS	JAN/2004
I-3	52.219-8	UTILIZATION OF SMALL BUSINESS CONCERNS	MAY/2004
I-4	52.225-13	RESTRICTIONS ON CERTAIN FOREIGN PURCHASES	JAN/2004
I-5	52.245-5	GOVERNMENT PROPERTY (COST-REIMBURSEMENT, TIME-AND-MATERIAL, OR LABOR- HOUR CONTRACTS) (Deviation, per DAR Tracking Number 99-00008, 13 July 99)	MAY/2004
I-6	52.249-6	TERMINATION (COST-REIMBURSEMENT)	MAY/2004
I-7	252.225-7012	PREFERENCE FOR CERTAIN DOMESTIC COMMODITIES	JUN/2004
I-8	252.225-7016	RESTRICTION ON ACQUISITION OF BALL AND ROLLER BEARINGS	MAY/2004
I-9 ADDED	52.204-7	CENTRAL CONTRACTOR REGISTRATION	OCT/2003

(a) Definitions. As used in this clause--

"Central Contractor Registration (CCR) database" means the primary Government repository for contractor information required for the conduct of business with the Government.

"Commercial and Government Entity (CAGE) code" means--

- (1) A code assigned by the Defense Logistics Information Service (DLIS) to identify a commercial or Government entity; or
- (2) A code assigned by a member of the North Atlantic Treaty Organization that DLIS records and maintains in the CAGE master file. This type of code is known as an "NCAGE code."

"Data Universal Numbering System (DUNS) number" means the 9-digit number assigned by Dun and Bradstreet, Inc. (D&B) to identify unique business entities.

"Data Universal Numbering System +4 (DUNS+4) number" means the DUNS number assigned by D&B plus a 4-character suffix that may be assigned by a business concern. (D&B has no affiliation with this 4-character suffix.) This 4-character suffix may be assigned at the discretion of the business concern to establish additional CCR records for identifying alternative Electronic Funds Transfer (EFT) accounts (see Subpart 32.11 of the Federal Acquisition Regulation) for the same parent concern.

"Registered in the CCR database" means that--

- (1) The Contractor has entered all mandatory information, including the DUNS number or the DUNS+4 number, into the CCR database;
- (2) The Contractor's CAGE code is in the CCR database; and
- (3) The Government has validated all mandatory data fields and has marked the records "Active."

(b)

- (1) By submission of an offer, the offeror acknowledges the requirement that a prospective awardee shall be registered in the CCR database prior to award, during performance, and through final payment of any contract, basic agreement, basic ordering agreement, or blanket purchasing agreement resulting from this solicitation.
- (2) The offeror shall enter, in the block with its name and address on the cover page of its offer, the annotation DUNS or DUNS+4 followed by the DUNS or DUNS+4 number that identifies the offerors name and address exactly as stated in the offer. The DUNS number will be used by the Contracting Officer to verify that the offeror is registered in the CCR database.

(c) If the offeror does not have a DUNS number, it should contact Dun and Bradstreet directly to obtain one.

(1) An offeror may obtain a DUNS number

(i) If located within the United States, by calling Dun and Bradstreet at 1-866-705-5711 or via the Internet at <http://www.dnb.com/> ; or

(ii) If located outside the United States, by contacting the local Dun and Bradstreet office.

(2) The offeror should be prepared to provide the following information:

- (i) Company legal business name.
- (ii) Tradestyle, doing business, or other name by which your entity is commonly recognized.
- (iii) Company physical street address, city, state and Zip Code.
- (iv) Company mailing address, city, state and Zip Code (if separate from physical).
- (v) Company telephone number.
- (vi) Date the company was started.
- (vii) Number of employees at your location.
- (viii) Chief executive officer/key manager.
- (ix) Line of business (industry).
- (x) Company Headquarters name and address (reporting relationship within your entity).

(d) If the Offeror does not become registered in the CCR database in the time prescribed by the Contracting Officer, the Contracting Officer will proceed to award to the next otherwise successful registered Offeror.

(e) Processing time, which normally takes 48 hours, should be taken into consideration when registering. Offerors who are not registered should consider applying for registration immediately upon receipt of this solicitation.

(f) The Contractor is responsible for the accuracy and completeness of the data within the CCR database, and for any liability resulting from the Governments reliance on inaccurate or incomplete data. To remain registered in the CCR database after the initial registration, the Contractor is required to review and update on an annual basis from the date of initial registration or subsequent updates its information in the CCR database to ensure it is current, accurate and complete. Updating information in the CCR does not alter the terms and conditions of this contract and is not a substitute for a properly executed contractual document.

Name of Offeror or Contractor: AUTONOMOUS SOLUTIONS, INC.

(1)

(i) If a Contractor has legally changed its business name, doing business as name, or division name (whichever is shown on the contract), or has transferred the assets used in performing the contract, but has not completed the necessary requirements regarding novation and change-of-name agreements in Subpart 42.12, the Contractor shall provide the responsible Contracting Officer a minimum of one business days written notification of its intention to:

(A) Change the name in the CCR database;

(B) Comply with the requirements of Subpart 42.12 of the FAR;

(C) Agree in writing to the timeline and procedures specified by the responsible Contracting Officer. The Contractor must provide with the notification sufficient documentation to support the legally changed name.

(ii) If the Contractor fails to comply with the requirements of paragraph (g)(1)(i) of this clause, or fails to perform the agreement at paragraph (g)(1)(i)(C) of this clause, and, in the absence of a properly executed novation or change-of-name agreement, the CCR information that shows the Contractor to be other than the Contractor indicated in the contract will be considered to be incorrect information within the meaning of the Suspension of Payment paragraph of the electronic funds transfer (EFT) clause of this contract.

(2) The Contractor shall not change the name or address for EFT payments or manual payments, as appropriate, in the CCR record to reflect an assignee for the purpose of assignment of claims (see FAR Subpart 32.8, Assignment of Claims). Assignees shall be separately registered in the CCR database. Information provided to the Contractors CCR record that indicates payments, including those made by EFT, to an ultimate recipient other than that Contractor will be considered to be incorrect information within the meaning of the Suspension of payment paragraph of the EFT clause of this contract.

(g) Offerors and Contractors may obtain information on registration and annual confirmation requirements via the Internet at <http://www.ccr.gov/> or by calling 1-888-227-2423, or 269-961-5757.

(End of clause)

CONTINUATION SHEET

Reference No. of Document Being Continued

Page 15 of 15

PIIN/SIIN W56HZV-04-C-0017

MOD/AMD P00002

Name of Offeror or Contractor: AUTONOMOUS SOLUTIONS, INC.

SECTION J - LIST OF ATTACHMENTS

<u>List of</u> <u>Addenda</u>	<u>Title</u>	<u>Date</u>	<u>Number</u> <u>of Pages</u>	<u>Transmitted By</u>
Attachment 001	CONTRACT DATA REQUIREMENTS LIST (CDRL) DD1423			

CONTRACT DATA REQUIREMENT LIST

Form Approval OMB No. 0704-0188

Public reporting burden for this collection of information is estimated to average 440 hours per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. Send comments regarding this burden estimate or any other aspect of this collection of information, including suggestions for reducing this burden, to Department of Defense, Washington Headquarters Services, Directorate for Information Operations and Reports, 1215 Jefferson Davis Highway, Suite 1204, Arlington, VA 22202-4302, and to the Office of Management and Budget, Paperwork Reduction Project (0704-0188), Washington, DC 20503. Please DO NOT RETURN your form to either these addresses. Send completed form to the Government Issuing Contracting Officer for the Contract/PR No. listed in Block E.

- A. CONTRACT LINE ITEM NO.: 0002
B. EXHIBIT: A
C. CATEGORY.....:
- D. SYSTEM/ITEM.....: Motion Planning for Omni-Directional Vehicles
E. CONTRACT/PR NO.: W56HZV-04-C-0017
F. CONTRACTOR.....: Autonomous Solutions, Inc.
1. DATA ITEM NO.....: A001
2. TITLE OF DATA ITEM.: Contractor's Progress, Status, and Management Report
3. SUBTITLE.....: Phase II Progress Reports
4. AUTHORITY.....: DI-MGMT-80227 (T)
5. CONTRACT REFERENCE.: Section C.4.1
6. REQUIRING OFFICE...: AMSTA-TR-R
7. DD250 REQ.....: 9. DIST. STATEMENT REQUIRED.: 12. DATE OF FIRST SUB.: See Block 16
8. APP CODE.....: 10. FREQUENCY.....: See Block 16 13. DATE OF SUBS. SUB.: See Block 16
11. AS OF DATE.....: See Block 16

14. DISTRIBUTION	A. ADDRESSEES	B. COPIES:	DRAFT	FINAL
	Robert Karlsen, Contracting Officer's Representative (COR), E-mail: karlsenr@tacom.army.mil			1
	Pam Thornton, Contract Specialist, E-Mail: thorntop@tacom.army.mil			1
	Wayne Hackett, Administrative Contracting Officer (ACO), E-mail: whackett@dcmdw.dcm.mil			1
		15. TOTAL:		1 *

* In distributing the electronic report, according to the schedule in Block 16 below, the Contractor shall deliver one (1) copy to the Government, sent to Robert Karlsen, Pam Thornton and Wayne Hackett: e-mail addresses are provided above.

16. REMARKS:

a. The Contractor shall deliver bi-monthly progress reports. The first report shall be submitted sixty (60) days after the contract award date.

b. Complete the reports in accordance with (IAW) Data Item Description (DID) DI-MGMT-80227, "Contractor's Progress, Status, and Management Report." The COR is responsible for accepting or rejecting the "Contractor's Progress, Status, and Management Reports." See DID DI-MGMT-80227, at the Internet address below, for instructions on completing the required report.

<http://astimage.daps.dla.mil/docimages/0001\48\17\DI80227.PD8>

Note Tailoring: Delete paragraphs 10.3g, k, and l from DID DI-MGMT-80227.

c. Prepare the reports in the Contractor's format. Submit the reports using any of the following electronic formats:

(1) Files readable using these Microsoft* 97 Office Products (TACOM can currently read OFFICE 97* and lower): Word, Excel, PowerPoint, or Access. Spreadsheets must be sent in a file format that includes all formulae, macro and format information. Print image is not acceptable. Executable files, other than self-extracting compressed files, are unacceptable.

(2) Files in Adobe PDF (Portable Document Format). Scanners should be set to 200 dots per inch.

(3) Files in HTML (Hypertext Markup Language). HTML documents must not contain active links to live Internet sites or pages. All linked information must be contained within your electronic report, and be accessible offline.

(4) Other electronic formats. Before preparing your report in any other electronic format, please e-mail the COR, with an e-mail copy-furnished to amsta-idq@tacom.army.mil, to obtain a decision as to the format's acceptability. This e-mail must be received by the COR not later than ten calendar days before the draft report's due date. All alternate methods must be at no cost to the Government.

NOTES: (a) The above formats may be submitted in compressed form using self-extracting files.

(b) Files may be read-only, password protected.

d. Acceptable media: The Contractor shall submit reports via e-mail. If e-mail is not workable, other acceptable media include 100 or 250 Megabyte Zip*-disk, 3 1/2 inch disk, or 650 megabyte CD-ROM. Identify the software application and version used to create each file submitted.

(1) E-MAIL. Maximum size of each e-mail message shall be three and one-half (3.5) megabytes. Any compressed files must be self-extracting, and you must provide appropriate instructions. You may use multiple e-mail messages if necessary, however, you must annotate the subject lines in this manner: "Message 1 of 3, 2 of 3, 3 of 3."

(2) 100 or 250 MEGABYTE ZIP*-DISK, 3 1/2 INCH DISK, OR 650 MEGABYTE CD ROM via U.S. Mail or other carrier. The Contractor shall label and all submitted disks with the Contract number, the Contractor's name, address and a contact's phone number.

NOTE: Please select only one medium by which to transmit each report. For instance, do not submit a report via e-mail and 100 megabyte Zip*-disk.

* Registered Trademark

1. DATA ITEM NO.: A002
2. TITLE OF DATA ITEM.: Scientific and Technical Reports
3. SUBTITLE : Phase II Interim Technical Report

4. AUTHORITY: DI-MISC-80711A
5. CONTRACT REFERENCE: Section C.4.2
6. REQUIRING OFFICE...: AMSTA-TR-R
7. DD250 REQ.....: DD
8. APP CODE.....:

9. DIST. STATEMENT REQUIRED.:
10. FREQUENCY.....: See Block 16
11. AS OF DATE.....: See Block 16

12. DATE OF FIRST SUB.: See Block 16
13. DATE OF SUBS. SUB.: See Block 16

14. DISTRIBUTION
A. ADDRESSEES
Robert Karlsen, Contracting Officer's Representative (COR), E-mail: karlsenr@tacom.army.mil
Pam Thornton, Contract Specialist, E-Mail: thornptop@tacom.army.mil
Wayne Hackett, Administrative Contracting Officer (ACO), E-mail: whackett@dcmdw.dema.mil

B. COPIES: DRAFT FINAL
1 1
1 1
1 1
15. TOTAL: 1 *

* In distributing the electronic report, according to the schedule in Block 16 below, the Contractor shall deliver one (1) copy to the Government, sent to Robert Karlsen, Pam Thornton and Wayne Hackett: e-mail addresses are provided above.

16. REMARKS:

a. The Contractor shall deliver two (2) interim "Scientific and Technical Report," twelve (12) months after contract award and twenty-four (24) months after contract award.

b. Complete the report in accordance with IAW DID DI-MISC 80711A, "Scientific and Technical Reports." The COR is responsible for accepting or rejecting the interim report. See the data item description (DI-MISC-80711A), at the Internet address below, for instructions on completing the required report.

<http://astimage.daps.dla.mil/docimages/0002\27\88\80711A.PD4>

c. Prepare the reports in the Contractor's format. Submit the reports using any of the following electronic formats:

(1) Files readable using these Microsoft* 97 Office Products (TACOM can currently read OFFICE 97* and lower): Word, Excel, PowerPoint, or Access. Spreadsheets must be sent in a file format that includes all formulae, macro and format information. Print image is not acceptable. Executable files, other than self-extracting compressed files, are unacceptable.

(2) Files in Adobe PDF (Portable Document Format). Scanners should be set to 200 dots per inch.

(3) Files in HTML (Hypertext Markup Language). HTML documents must not contain active links to live Internet sites or pages. All linked information must be contained within your electronic report, and be accessible offline.

(4) Other electronic formats. Before preparing your report in any other electronic format, please e-mail the COR, with an e-mail copy-furnished to amsta-idq@tacom.army.mil, in order to obtain a decision as to the format's acceptability. This e-mail must be received by the COR not later than ten calendar days before the draft report's due date. All alternate methods must be at no cost to the Government.

NOTES: (a) The above formats may be submitted in compressed form using self-extracting files.

(b) Files may be read-only, password protected.

e. Acceptable media: The Contractor shall submit reports via e-mail. If e-mail is not workable, other acceptable media include 100 or 250 Megabyte Zip*-disk, 3 1/2 inch disk, or 650 megabyte CD ROM. Identify the software application and version used to create each file submitted.

(1) E-MAIL. Maximum size of each e-mail message shall be three and one-half (3.5) megabytes. Any compressed files must be self-extracting, and you must provide appropriate instructions. You may use multiple e-mail messages if necessary, however, you must annotate the subject lines in this manner: "Message 1 of 3, 2 of 3, 3 of 3."

(2) 100 or 250 MEGABYTE ZIP*-DISK, 3 1/2 INCH DISK, OR 650 MEGABYTE CD ROM via U.S. Mail or other carrier. The Contractor shall label and all submitted disks with the Contract number, the Contractor's name, address and a contact's phone number.

NOTE: Please select only one medium by which to transmit each report. For instance, do not submit a report via e-mail and 100 megabyte Zip*-disk.

* Registered Trademark

1. DATA ITEM NO.: A003
2. TITLE OF DATA ITEM.: Scientific and Technical Reports
3. SUBTITLE : Phase II Draft and Final Technical Reports
4. AUTHORITY: DI-MISC-80711A
5. CONTRACT REFERENCE: Section C.4.3
6. REQUIRING OFFICE...: AMSTA-TR-R
7. DD250 REQ.....: DD
8. APP CODE.....:
9. DIST. STATEMENT REQUIRED.:
10. FREQUENCY.....: See Block 16
11. AS OF DATE.....: See Block 16
12. DATE OF FIRST SUB.: See Block 16
13. DATE OF SUBS. SUB.: See Block 16

14. DISTRIBUTION	A. ADDRESSEES	B. COPIES:	DRAFT	FINAL
Robert Karlsen, Contracting Officer's Representative (COR), E-mail: karlsen@tacom.army.mil			1	1
Pam Thornton, Contract Specialist, E-Mail: thortop@tacom.army.mil				1
Wayne Hackett, Administrative Contracting Officer (ACO), E-mail: whackett@dcmdw.dema.mil				1
		15. TOTAL:	1	1 *

* In distributing the electronic report, according to the schedule in Block 16 below, the Contractor shall deliver one (1) copy to the Government, sent to Robert Karlsen, Pam Thornton and Wayne Hackett: e-mail addresses are provided above.

16. REMARKS:

a. The Contractor shall deliver one (1) draft "Scientific and Technical Report," twenty-three (35) months after contract award. The draft report shall include a completed Standard Form (SF) 298 (Report Documentation Page) as the report's cover sheet. The COR shall review the draft report and return it to the Contractor within fourteen (14) days of receipt with comments. The Contractor shall submit one (1) final "Scientific and Technical Report" (with the completed SF 298) within fourteen (14) days after receipt of draft comments.

c. Complete the reports IAW DID DI-MISC 80711A, "Scientific and Technical Reports." The COR is responsible for accepting or rejecting the draft and final reports, and for submitting the approved final report to the Defense Technical Information Center (DTIC), in Ft. Belvoir, VA. See the data item description (DI-MISC-80711A), at the Internet address below, for instructions on completing the required report.

<http://astimage.daps.dla.mil/docimages/0002\27\88\80711A.PD4>

You may download the SF 298 form, from the following Internet address:

<http://www.dtic.mil/dtic/forms/sf298template.doc>

You may download basic instructions for completing the SF 298 form, from the following Internet address:

http://www.dtic.mil/dtic/forms/SF298_MS67.doc

Here are some additional instructions for completing the SF 298 form, that apply when submitting reports under the SBIR Program:

For each unclassified report, the Contractor shall fill in Block 12a (Distribution/Availability Statement) of the SF 298 with one of the following statements:

- (a) Approved for public release; distribution unlimited.
- (b) Distribution authorized to U.S. Government Agencies only; contains proprietary information

Note: After reviewing the Contractor's entry in Block 12a, TACOM has final responsibility for assigning a distribution statement.

Block 13 (Abstract) of the SF 298 must include the first sentence, "Report developed under SBIR contract for topic A02-227." The abstract must identify the purpose of the work and briefly describe the work carried out, the finding or results, and the potential applications of the effort. Since the Department of Defense (DOD) will be publishing the abstract, it must not contain any proprietary or classified data.

Block 14 (Subject Terms) of the SF 298 must include the term "SBIR Report."

d. Prepare the reports in the Contractor's format. Submit the reports using any of the following electronic formats:

(1) Files readable using these Microsoft* 97 Office Products (TACOM can currently read OFFICE 97* and lower): Word, Excel, PowerPoint, or Access. Spreadsheets must be sent in a file format that includes all formulae, macro and format information. Print image is not acceptable. Executable files, other than self-extracting compressed files, are unacceptable.

(2) Files in Adobe PDF (Portable Document Format). Scanners should be set to 200 dots per inch.

(3) Files in HTML (Hypertext Markup Language). HTML documents must not contain active links to live Internet sites or pages. All linked information must be contained within your electronic report, and be accessible offline.

(4) Other electronic formats. Before preparing your report in any other electronic format, please e-mail the COR, with an e-mail copy-furnished to amsta-idq@tacom.army.mil, in order to obtain a decision as to the format's acceptability. This e-mail must be received by the COR not later than ten calendar days before the draft report's due date.

All alternate methods must be at no cost to the Government.

NOTES: (a) The above formats may be submitted in compressed form using self-extracting files.

(b) Files may be read-only, password protected.

e. Acceptable media: The Contractor shall submit reports via e-mail. If e-mail is not workable, other acceptable media include 100 or 250 Megabyte Zip*-disk, 3 1/2 inch disk, or 650 megabyte CD ROM. Identify the software application and version used to create each file submitted.

(1) E-MAIL. Maximum size of each e-mail message shall be three and one-half (3.5) megabytes. Any compressed files must be self-extracting, and you must provide appropriate instructions. You may use multiple e-mail messages if necessary, however, you must annotate the subject lines in this manner: "Message 1 of 3, 2 of 3, 3 of 3."

(2) 100 or 250 MEGABYTE ZIP*-DISK, 3 INCH DISK, OR 650 MEGABYTE CD ROM via U.S. Mail or other carrier. The Contractor shall label and all submitted disks with the Contract number, the Contractor's name, address and a contact's phone number.

NOTE: Please select only one medium by which to transmit each report. For instance, do not submit a report via e-mail and 100 megabyte Zip*-disk.

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