

## BOARD OF SUPERVISORS AGENDA ITEM REPORT CONTRACTS / AWARDS / GRANTS

● Award Contract 〇 Grant

Requested Board Meeting Date: 02/15/2022

\* = Mandatory, information must be provided

or Procurement Director Award

00727mo446TCQ1K0F

### \*Contractor/Vendor Name/Grantor (DBA):

Hydrolynx Systems, Inc.

#### \*Project Title/Description:

Alert Flood Warning System Parts and Repair Service

#### \*Purpose:

Amendment of Award: Master Agreement No. MA-PO-21-029, Amendment No. 02. This Amendment is for a onetime increase in the amount of \$850,000.00 for a cumulative not-to-exceed contract amount of \$1,038,000.00 effective 02/15/2022 and increases the annual award amount by \$6,000.00 from \$94,000.00 to \$100,000.00 effective 09/22/22

Administering Department: Regional Flood Control District.

#### \*Procurement Method:

Pursuant to Pima County Procurement Code 11.12.050, Sole source procurement, on 08/05/20, the Procurement Director approved an award of contract for an initial term of one (1) year and an annual award amount of \$94,000.00 with four (4) one-year renewal options.

Effective 09/22/21, the Procurement Officer processed Amendment No. 01, which extended the termination date to 09/21/22, and added the annual award amount of \$94,000.00 for a cumulative not-to-exceed contract amount of \$188,000.00. Three (3) renewal options remained.

This increase is needed to replace and install over 150 ALERT transmitters with ALERT2 compatible transmitters, install new solar panels, antenna cables and GPS clocks at each ALERT field site. Install ALERT2 receiver and decoders at Admin. West and PECOC. Develop and program the Time Division Multiple Access (TDMA) protocol for the ALERT2 network and integrate ALERT2 data into the existing ALERT database and servers.

#### PRCUID: 383593

Attachment: Master Agreement.

#### \*Program Goals/Predicted Outcomes:

Pima County Regional Flood Control District will be able to monitor storm activity and provide notification of flood hazards to County and other agency officials.

#### \*Public Benefit:

Public will be notified of storm activity and flooding conditions within the County.

#### \*Metrics Available to Measure Performance:

Department will monitor delivery, repair and billing to ensure contract compliance.

\*Retroactive:

No.

To: COB 2/8/22 Vers: 3 Pas: 4

<b>Contract / Award Information</b>	l.	
Document Type:	Department Code:	Contract Number (i.e., 15-123):
Commencement Date:	Termination Date:	Prior Contract Number (Synergen/CMS):
Expense Amount: \$*		Revenue Amount: \$
*Funding Source(s) required:		
Funding from General Fund?	CYes CNo If Yes \$	%
Contract is fully or partially func If Yes, is the Contract to a ve		/es □ No
Ware insurance or indemnity cl If Yes, attach Rísk's approval	ter ta terre e en el compositor de la compo	′és □ No
Vendor is using a Social Securi	ity Number?	∕es □ No
If Yes, attach the required form	n per Administrative Procedure 22-10.	
Amendment / Revised Award Document Type: MA Amendment No.: 02	Department Code: PO AMS	Contract Number (i.e.,15-123): <u>21-029</u> 3 Version No.: <u>03</u>
Commencement Date: 02/15/20		r Termination Date:
		r Contract No. (Synergen/CMS):
Expense or C Revenue		bunt This Amendment: \$ 850,000.00
Is there revenue included?	CYes No If Yes \$	
*Eunding Couroolo) required	Flood Control Tay Low	
*Funding Source(s) required:	Flood Control Tax Levy	
*Funding Source(s) required: Funding from General Fund?		% <u>0</u>
Funding from General Fund?	CYes If Yes \$	ds) C Award C Amendment
Funding from General Fund? Grant/Amendment Informatio	Yes ● No If Yes \$   m (for grants acceptance and award)	
Funding from General Fund? Grant/Amendment Informatio Document Type:	C Yes   ● No   If Yes \$     m (for grants acceptance and award Department Code:	ds) C Award C Amendment
Funding from General Fund? Grant/Amendment Information Document Type: Commencement Date:	C Yes   ● No   If Yes \$     m (for grants acceptance and award Department Code:	ds) C Award C Amendment Grant Number (i.e.,15-123): Amendment Number:
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Funding from General Fund? Grant/Amendment Informatio Document Type: Commencement Date: Match Amount: \$ *All Funding Source(s) requir *Match funding from General *Match funding from other so *Funding Source: *If Federal funds are received Federal government or passe	Yes   No   If Yes \$     If (for grants acceptance and award Department Code:	ds)   C Award   C Amendment    Grant Number (i.e., 15-123):
Funding from General Fund? Grant/Amendment Informatio Document Type: Commencement Date: Match Amount: \$ *All Funding Source(s) requir *Match funding from General *Match funding from other so *Funding Source: *If Federal funds are received Federal government or passe Contact: Procurement Officer: Department: Procurement Direct	Yes   No   If Yes \$     If (for grants acceptance and award Department Code:	ds)   C Award   C Amendment    Grant Number (i.e., 15-123):

Revised 5/2020

### PIMA COUNTY PROJECT MANAGEMENT & GATE PROCESS MANUAL DESCRIPTION OF NEED



Project Name:	ALERT Flood Warning System conversion	on to ALERT2	
Project ID;	5ALRT2	Project Manager:	Lynn Orchard
Prepared By:	Lynn Orchard / Deirdre Brosnihan	Phone #:	724-4654

#### **Background:**

ALERT is an acronym for Automated Local Evaluation in Real Time, which is a method of using remote hydrologic monitoring equipment to transmit environmental data to a central computer network in real time, ALERT relies on line-of-site radio transmissions using a transmission standard developed by the National Weather Service. Rainfall, streamflow and other weather data generated by ALERT sensors is transmitted via UHF radio to a series of mountain-top receivers and then to receiving stations at two Pima County locations, Admin West and the Pima County Emergency Operation Center (PECOC). Here the data is captured by ALERT receiver/decoders and is incorporated into a database that simultaneously publishes the data to the internet and sends automated alerts directly to Pima County staff and other cooperating agencies, Including the National Weather Service. This system is the backbone of the Pima County Regional Flood Control District's flood warning program and provides essential and timely data to alert the public of impending flood related hazards. Because each of the remote sensors transmits data to the central database on the same UHF frequency, if two or more sensors send data simultaneously the radio waves can collide and cancel each other out resulting in a loss of data. As ALERT systems grow the likelihood of data loss due to radio collisions during active weather events increases. This essentially means that as an ALERT system expands it has the potential to become increasingly more inefficient. ALERT is widely used in the western United States and data loss as systems expand is a recognized problem. To address this, a new transmission protocol named ALERT2 has been developed. ALERT2 utilizes GPS clocks installed on the transmitters to force sites to only transmit data during fixed time intervals assigned to that unit. Because of the accuracy of the GPS clocks hundreds of ALERT2 transmitters can operate simultaneously while never broadcasting at the same instance as another site, eliminating the chance for radio transmission collision errors. The District's ALERT system expands every year to cover more of the county. The network is currently operating efficiently but we recognize that converting to ALERT2 will eventually be necessary to facilitate continued growth.

#### Scope of Work:

Replace and install over 150 ALERT transmitters with ALERT2 compatible transmitters. Install new solar panels, antenna cable and GPS clocks at each ALERT field site. Install ALERT2 receiver and decoders at Admin West and PECOC. Develop and program the Time Division Multiple Access (TDMA) protocol for the ALERT2 network. Integrate ALERT2 data into the existing ALERT database and servers.

#### Justification:

The ALERT flood warning system provides an essential public safety function. Data gathered from the ALERT system is used to inform District storm monitors and other essential Pima County staff of impending flood hazards. ALERT data is used to issue MyAlert public hazard notifications and to coordinate with the Pima County Office of Emergency Management and other first responders during active flood events. ALERT data is relayed automatically to other Pima County Departments including the Department of Transportation, Department of Environmental Quality, and Regional Wastewater. ALERT data is also shared directly with a number of other agencies and stakeholders including emergency coordinators for jurisdictions within the county as well as the National Weather Service. The value of ALERT data to provide reliable and timely flood hazard information is recognized and accordingly expanding the network of

Pima County Project Management & Gate Process Manual

Description of Need Ver. 07/17/17

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### **PIMA COUNTY PROJECT MANAGEMENT & GATE PROCESS MANUAL DESCRIPTION OF NEED**



sensors to cover more of Pima County is a desired goal. Converting to ALERT2 will facilitate expanding the flood warning system while ensuring the data remains reliable during storm and flooding events. Additionally, the industry standard is moving to ALERT2 and availability and support for ALERT hardware is rapidly decreasing. Moving to ALERT2 serves to modernize our system and ensures the availability of hardware and technical support for many years into the future.

## Attach a Map of the Area

<u></u>	FY21-22	FY22-23	FY	FY	FY	Total
Project Development	\$40,000	\$40,000				\$80,000
Design	\$10,000	\$10,000	•			\$20,000
Right-of-Way						· · · · · · · · · · · · · · · · · · ·
Construction	\$475,000	\$307,000				\$782,000
Utility Relocation						
Public Art		1				. · .
Contingency	\$52,000	\$36,000				\$88,000
Total - EXPENSES	\$577,000	\$393,000				\$970,000
RFCD Levy	\$577,000	\$393,000				\$970,000
Total - FUNDING	\$577,000	\$393,000				\$970,000
O&M – All total	Electronic de la					

Director Signature

Nancy Cole

12/8/20

Date

Date

County Administration Signature

Description of Need Ver. 07/17/17

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# MASTER AGREEMENT

## PIMA COUNTY, ARIZONA

#### THIS IS NOT AN ORDER - TRANSMISSION CONSTITUTES CONTRACT EXECUTION

Master Agreement No: 21000000000000000000

MA Version: 3

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Description: Alert Flood Warning System Parts and Repair Service

I S S	Pima County Procurement Department 150 W. Congress St. 5th Fl Tucson AZ 85701	T E R	Initiation Date: 02-15-2022 Expiration Date: 09-21-2022	
U E R	Issued By: STEPHEN ROMERO Phone: 5207243021 Email: stephen.romero@pima.gov	M S	NTE Amount: \$1,038,000.00 Used Amount: \$155,152.92	

v	HYDROLYNX SYSTEMS INC	Contact:	KIMBERLY A. BLAIR	N. Contraction of the second sec
E	950 RIVERSIDE PKWY #10	Phone:	916-374-1800	
N		Email:	kblair@hydrolynx.com	
D	WEST SACRAMENTO CA 95605-1507	Terms:	0.00 %	
0		Days:	30	
R				

Shipping Method:

0

Delivery Type:

FOB:

FOB Dest, Freight Allowed

Vendor Method

#### Modification Reason

Amendment No. 2 is for a one-time increase in the amount of \$850,000.00 for a cumulative not-to-exceed contract amount of \$1,038,000.00 effective 02/15/2022 and increases the annual award amount by \$6,000.00 from \$94,000.00 to \$100,000.00 effective 09/22/22.

This Master Agreement incorporates the attached documents, and by reference all instructions, Standard Terms and Conditions, Special Terms and Conditions, and requirements that are included in or referenced by the soliciation documents used to establish this agreement. All transactions and conduct are required to conform to these documents.

## **MASTER AGREEMENT DETAILS**



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0	ALERT2 Receiver/Decode Discount 0.0000 %	r (Radio Included) UOM EA	Unit Price \$14,400.00	Stock Code	VPN	<b>MPN</b> 5052RD-K-H	
1	12 Vdc Power Supply with Discount 0.0000 %	a 3-pin MS Connect UOM EA	tor Unit Price \$150.00	Stock Code	VPN	<b>MPN</b> 5030-PS	
2	CAT 5e Network Cable for Discount 0.0000 %	ALERT1 or ALER UOM EA	T2 Data, 7FT Unit Price \$55.00	Stock Code	VPN	<b>MPN</b> 5071C-NET-5E	
3	ALERT1 or ALERT2 Repea Discount 0.0000 %	ater in Canister TR UOM EA	ADE-Up Unit Price \$14,200.00	Stock Code	VPN	<b>MPN</b> 5052RP2-H/TU	
\$	ALERT1 or ALERT2 Repea Discount 0.0000 %	ater in a Rack TRA UOM EA	DE-Up Unit Price \$15,000.00	Stock Code	VPN	<b>MPN</b> 5052RP-K3-H/TU	
5	Upgrade existing 5096 to Discount 0.0000 %	ALERT 2 UOM EA	<b>Unit Price</b> \$2,850.00	Stock Code	VPN	<b>MPN</b> 5096/A2-UP-H	
6	Labor to add ALERT2 to e Discount 0.0000 %	xisting 5096 UOM EA	Unit Price \$390.00	Stock Code	VPN	<b>MPN</b> 5096A2-ADD	
7	5096/A2 to 50388/A2 Upgr Discount 0.0000 %	ade Kit UOM EA	Unit Price \$3,195.00	Stock Code	VPN	<b>MPN</b> 50388/A2-UG	
8	Transmitter in Round Can Discount 0.0000 %	ister, 1 Precipitatio UOM EA	on Input Unit Price \$5,290.00	Stock Code	VPN	<b>MPN</b> 50386/A2-54-H	
9	Same as 50386/A2-54 w/P Discount 0.0000 %	recipitation,1Up/Do UOM EA	own Counter Unit Price \$5,490.00	Stock Code	VPN	<b>MPN</b> 50386/A2-90-H	
0	Same as 50386/A2-54 w/P Discount 0.0000 %	recipitation,1Up/Do UOM EA	own Counter Unit Price \$5,990.00	Stock Code	VPN	<b>MPN</b> 50386/A2-81-H	
1	Transmitter in NEMA 4x E Discount 0.0000 %	nclosure UOM EA	Unit Price \$5,845.00	Stock Code	VPN	<b>MPN</b> 50386/A2-N-H	
2	Transmitter on Panel with Discount 0.0000 %	Terminal Strip UOM EA	Unit Price \$5,345.00	Stock Code	VPN	<b>MPN</b> 50386/A2-PANEL-H	
3	Upgrade Existing 50386 to Discount 0.0000 %	D ALERT2 UOM EA	Unit Price \$2,850.00	Stock Code	VPN	<b>MPN</b> 50386/A2-UP-H	
4	LABOR to Add ALERT 2 to Discount 0.0000 %	o Existing 50386 UOM EA	<b>Unit Price</b> \$390.00	Stock Code	VPN	<b>MPN</b> 50386/A2-ADD	
5	Transmitter in Round Can Discount 0.0000 %			Stock Code	VPN	<b>MPN</b> 50388/A2-90-H	
6	Same as 50388/A2-90 Discount 0.0000 %	UOM EA	Unit Price \$5,590.00	Stock Code	VPN	MPN 50388/A2-81-H	
7	Transmitter in 10 x 12 NEI Discount 0.0000 %		<b>Unit Price</b> \$4,795.00	Stock Code	VPN	<b>MPN</b> 50388/A2-B-H	
8	Transmitter in NEMA 4X E Discount 0.0000 %		. ,	Stock Code	VPN	<b>MPN</b> 50388/A2-N-H	

## **MASTER AGREEMENT DETAILS**



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ine	Description					
39	Transmitter on panel with To Discount 0.0000 %	erminal Strip UOM EA	<b>Unit Price</b> \$4,950.00	Stock Code	VPN	<b>MPN</b> 50388/A2-PANEL-H
40	Upgrade existing 50388 to A Discount 0.0000 %	LERT2 UOM EA	<b>Unit Price</b> \$2,850.00	Stock Code	VPN	<b>MPN</b> 50388/A2-UP-H
41	Labor to add Alert2 to existi Discount 0.0000 %	ng 50388 UOM EA	Unit Price \$390.00	Stock Code	VPN	<b>MPN</b> 50388/A2-ADD
42	Receiver antenna pigtail cat Discount 0.0000 %	UOM EA	L <b>PS-4502, 3 feet</b> Unit Price \$100.00	Stock Code	VPN	<b>MPN</b> CRG58-NM/NM3
13	Receiver antenna splitter, 2 Discount 0.0000 %	DOM EA	<b>Unit Price</b> \$260.00	Stock Code	VPN	MPN TELPS-4502
44	Receiver antenna pigtail cat Discount 0.0000 %	ole, TELPS-4502 t UOM EA	o 5052RP, 1 foot Unit Price \$50.00	Stock Code	VPN	MPN CRG58-NM/BNC1
45	Solar Panel, 50 watts (3.0 Ar Discount 0.0000 %	np), 12 Vdc UOM EA	<b>Unit Price</b> \$1,080.00	Stock Code	VPN	<b>MPN</b> 5033-3.0B
46	Ritron ALERT1/ALERT2 Rad Discount 0.0000 %	lio Receiver UOM EA	<b>Unit Price</b> \$700.00	Stock Code	VPN	MPN RTR-LS-V
17	Maxon ALERT2 Radio Trans Discount 0.0000 %	mitter UOM EA	Unit Price \$500.00	Stock Code	VPN	MPN RTR-MX-V
48	Network Interface for ALER Discount 0.0000 %	「1/ALERT2 netwo UOM EA	rk output Unit Price \$595.00	Stock Code	VPN	<b>MPN</b> 50386-OP14
19	Cellular Network Gateway Discount 0.0000 %	UOM EA	<b>Unit Price</b> \$1,350.00	Stock Code	VPN	<b>MPN</b> 50386-OP21
50	GPS Antenna Lightning Pro Discount 0.0000 %	UOM EA	<b>Unit Price</b> \$250.00	Stock Code	VPN	<b>MPN</b> 5050LA-GPS
51	GPS Antenna for ALERT2 Discount 0.0000 %	UOM EA	<b>Unit Price</b> \$150.00	Stock Code	VPN	<b>MPN</b> 5050A-A2
52	GPS Antenna,antenna brack Discount 0.0000 %	et, 2 cables,GPS UOM EA	lightning arresto Unit Price \$550.00	r Stock Code	VPN	MPN GPS-ANT/A2
53	ALERT2 HDR Encoder PCB Discount 0.0000 %	UOM EA	<b>Unit Price</b> \$1,250.00	Stock Code	VPN	<b>MPN</b> G2012/E-H
54	12 volt 22 amp Hour Gel Cel Discount 0.0000 %		Unit Price \$110.00	Stock Code	VPN	<b>MPN</b> 5031-22
5	Battery Charger Discount 0.0000 %	UOM	<b>Unit Price</b> \$110.00	Stock Code	VPN	MPN 5030-8
56	12 Vdc Power Supply with 3 Discount 0.0000 %		· ·	Stock Code	VPN	<b>MPN</b> 5030-PS
57	CAT 5e network cable for Al Discount 0.0000 %			Stock Code	VPN	<b>MPN</b> 5071C-NET-5E

## **MASTER AGREEMENT DETAILS**



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58	ALERT2 HDR Field Trans Discount 0.0000 %	ceiver, Basic Pack UOM EA	age Unit Price \$6,000.00	Stock Code	VPN	<b>MPN</b> 5462/A2FX
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