

**CITY OF LA VISTA**  
**MAYOR AND CITY COUNCIL REPORT**  
**JULY 6, 2021 AGENDA**

<b>Subject:</b>	<b>Type:</b>	<b>Submitted By:</b>
CHANGE ORDER NO.1 – 96 <sup>TH</sup> ST & 108 <sup>TH</sup> ST PAVEMENT RECONSTRUCTION & REHABILITATION PROJECT	◆ RESOLUTION ORDINANCE RECEIVE/FILE	PAT DOWSE CITY ENGINEER

#### **SYNOPSIS**

A resolution has been prepared to approve a change order to the contract with Swain Construction, Inc. to provide for an additional item of work in the amount of \$53,465.74. Total contract amount not to exceed \$3,794,262.31.

#### **FISCAL IMPACT**

The FY21/FY22 Biennial Budget provides funding for this project.

#### **RECOMMENDATION**

Approval

#### **BACKGROUND**

A contract was approved with Swain Construction on October 20, 2020, to construct concrete panel repairs as well as reconstruct curb ramps in accordance with current ADA standards within the intersection of 96<sup>th</sup> Street and Giles Road. In review of the impacts to the existing traffic signal loop detection system within the intersection due to the proposed concrete work, it was determined by staff that an upgrade to radar detection at this time would be advantageous for current and future operations of the intersection and be consistent with operational initiatives to upgrade existing signal systems to radar detection. The radar system recommended is the Vantage Vector system that was installed at the Giles Road and Southport Parkway intersection earlier this year, as well as what is proposed to be installed with the 114<sup>th</sup> Street and Giles Road Intersection Improvements project anticipated to start in July of 2021.

Changer Order No. 1 would increase the contract amount by 1.43%, or \$53,465.74 for a revised total amount not to exceed \$3,794,262.31.

**RESOLUTION NO. \_\_\_\_\_**

A RESOLUTION OF THE MAYOR AND CITY COUNCIL OF THE CITY OF LA VISTA AUTHORIZING THE CHANGE ORDER NO. 1 TO A CONTRACT WITH SWAIN CONSTRUCTION TO PROVIDE AN ADDITIONAL ITEM OF WORK IN THE AMOUNT OF \$53,465.74, INCREASING THE CONTRACT PRICE TO AN AMOUNT NOT TO EXCEED \$3,794,262.31.

WHEREAS, the Mayor and City Council of the City of La Vista Nebraska have determined that the 96th Street & 108th Street reconstruction project is necessary; and

WHEREAS, The FY21/FY22 Biennial Budget provides funding for this project; and

WHEREAS, Subsection (C) (9) of Section 31.23 of the La Vista Municipal Code requires that the City Administrator secure Council approval prior to authorizing any expenditure over \$5,000.00.

NOW, THEREFORE, BE IT RESOLVED, that the Mayor and City Council of the City of La Vista, Nebraska, do hereby approve change order No.1 to a contract with Swain Construction to provide an additional item of work in the amount of \$53,465.74, increasing the contract price to an amount not to exceed \$3,794,262.31

PASSED AND APPROVED THIS 6TH DAY OF JULY, 2021.

CITY OF LA VISTA

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Douglas Kindig, Mayor

ATTEST:

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Pamela A. Buethe, CMC  
City Clerk

**CONTRACT CHANGE ORDER**

PROJECT NO.:

M-376(390) and M-376(391)

CHANGE ORDER NO.:

1

PROJECT NAME:

96th & 108th Pavement Reconstruction and Pavement Rehabilitation

CONTRACTOR:

SWAIN CONSTRUCTION

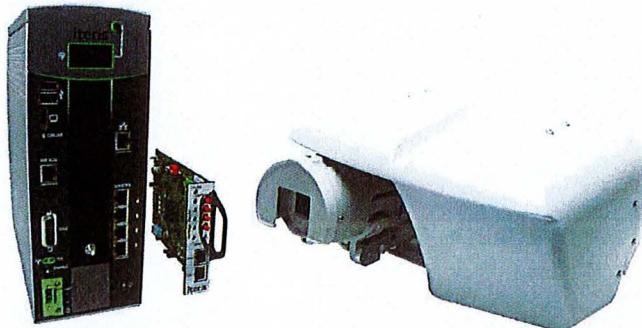
LINE	ITEM #	DESCRIPTION / REASON	UNIT	QUANTITY	UNIT PRICE	CONTRACT PRICE	
						DECREASE	INCREASE
56	CO 001	96th Street & Giles Road Radar and Video Detection  Establish a price for installing the Iteris Vantage radar/video detection system for the intersection of 96th & Giles Road. The radar/video detection system will enhance the performance and safety for traffic flow within the intersection as well as eliminate the cost of maintaining, in pavement, loop detection systems. Cost of material is 43,897.74 Cost of installation is 9,568.00 . Scope includes furnishing the equipment, above-ground installation of radar detector units, installation of cables in existing conduits, and implementation of the system in the controller cabinet, with assistance from the vendor.	LS	1	\$ 53,465.74	\$	53,465.74
TOTAL DECREASE IN CONTRACT PRICE						\$	-
TOTAL INCREASE IN CONTRACT PRICE						\$	53,465.74
NET DIFFERENCE						\$	53,465.74
ESTIMATED CONTRACT VALUE						\$	3,740,796.57
PREVIOUS CHANGE ORDER(S) VALUE							
CURRENT CONTRACT AMOUNT						\$	3,794,262.31
PERCENT CHANGE ORDER(S) TOTAL							1.43%

NOTICE TO PROCEED DATE		3/29/2021
DATE OF PROJECT COMPLETION		10/30/2021
PREVIOUS CALENDAR DAYS ADDED		0
CALENDAR DAYS THIS CHANGE ORDER		0
CURRENT PROJECT COMPLETION DATE		10/30/2021

RECOMMENDED:	<u>Tim O'Bryan</u> (CONSULTANT/PROJECT MANAGER)	DATE: 06/28/2021
RECOMMENDED:	<u>Pat M. S.</u> (CITY ENGINEER)	DATE: 6/28/21
ACCEPTED:	<u>Ent. Ad.</u> (CONTRACTOR)	DATE: 6/29/21
ACCEPTED:	<u></u> (OWNER)	DATE:



## Vantage Next® with Vantage Vector®



An all-in-one hybrid detection system with powerful performance beyond any other detection solution



Lane by lane functionality for intelligent intersection data



The ideal solution for adaptive traffic control systems



A cost-effective and easy-to-install sensor – no more cutting loops or pulling extra cables

### Advanced performance in a single sensor

Vantage Next paired with Vantage Vector is a one-of-a-kind solution that provides both state-of-the-art video and advanced radar detection for maximum intersection performance and safety. Combined with Iteris' leading all-weather stop bar detection, the Next platform with Vector sensor offers multiple applications including use with adaptive systems, advanced dilemma zone and collision avoidance functionality. The system's improved zone logic, phase input control and greater data set is a game changer – it's essentially the only sensor you will ever need!

Together with the Vantage Next platform, Vector provides advanced individual lane detection, delivering even more precise traffic data. The 16 radar zones are easily configurable

and can be programmed to any of the seven zone types including: presence, delay, extension, count, pulse, CSO and none. In addition, they can be combined with 32 video zones to provide a powerful data set for advanced ITS applications. These include long-left-turn pockets and queue detection making it the ideal solution for all traffic management needs.

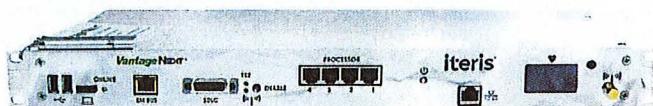
### Traffic adaptive and responsive

When used with adaptive traffic control systems, the Next with Vector solution improves efficiency and responsiveness by providing accurate and robust detection data to feed into virtually any platform. The Iteris system is fully compatible with Iteris' VantageLive! and SPM platforms as well as other third party web and mobile-based traffic measurement applications.

**iteris®**

## More Benefits

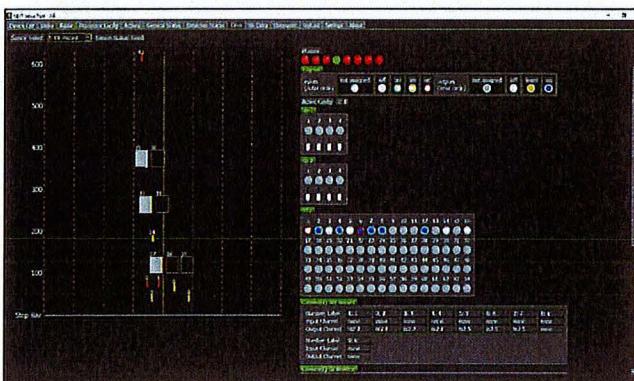
- Fully compatible with Iteris' SPM and VantageLive software for more detailed and accurate traffic data
- Includes SmartCycle® and PedTrax® for bicycle and pedestrian detection and counting
- Vehicle detection up to 600 feet
- Color-coded zones for effortless viewing of phase activity
- Choose from a rack-mount or shelf-mount cabinet control units



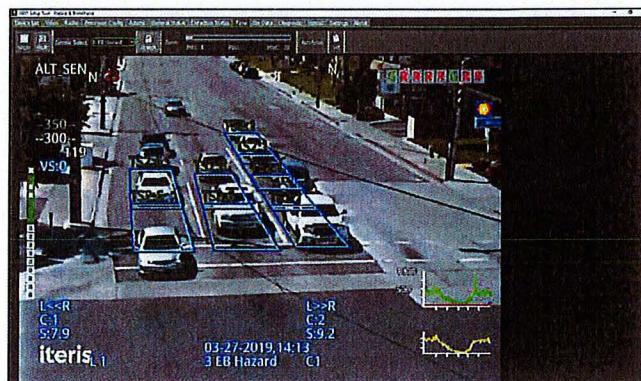
## Specifications

Imager	Focal Length 5.40 tele to 50.70 wide
	Dynamic Range > 100dB
	1.0 Lux Minimum Illumination
	3D-DNR Noise Reduction
Lens	12x Optical Zoom
Heater	Indium Tin Oxide
Connections	Terminal Block
	RJ-45
	cat5e
Radar	
Frequency	24GHz (K-band)
Accuracy	Speed 0 to 150mph ±1mph (0 to 240kph ±1.5kph)
Detection	Minimum 4 lanes
Tracked Objects	Up to 60
Weight	10 Pounds (4.55kg)

Environment	
Temperature	-35°F to +165°F (-34°C to +74°C)
Electrical	48VDC 10W(Typical) 20W(Max)
Physical	17" (432mm) D x 15" (381mm) W x 14" (356mm) H
	Excluding Mounting Bracket
Weight	10 Pounds (4.55kg)
Environment	
Temperature	-35°F to +165°F (-34°C to +74°C)
Humidity	0% to 95% non-condensing
Vibration	0.5G, 3 axes, 5-30Hz
Shock	10G in all 3 axes
Ingress Protection	IP 67
Regulatory	NEMA TS-2
	FCC part 15, Class A
Warranty	3 years limited warranty



Vector on Next – Radar Zone Operation



Next Video Stream Displaying Video and Radar Operation



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March 2019 Rev 1