

**Change Order**

No. 3

Date of Issuance: October 4, 2019 Effective Date: October 4, 2019

Project: SCADA System Improvements 2017-18 Owner: City of Lee's Summit, MO Owner's Contract No.: 2017-042-1-3C SCADA

Contract: SCADA System Improvements 2017-18 Date of Contract: NTP Dec. 18th, 2017

Contractor: Second Sight Systems, LLC. Engineer's Project No. HDR # 10028695  
7280 Old State Rte. 21 Barnhart, MO 63012

The Contract Documents are modified as follows upon execution of this Change Order:

Description: Refer to Reasons for Change and Change Spreadsheet (Attached).

Attachments: (List documents supporting change):

**Change Order / reference documents (attached)**

**CHANGE IN CONTRACT PRICE:**

Original Contract Price:

\$ 396,855.14

Increase from previously approved Change Orders

No. 0 to No. 2 :

\$ 23,550.52

Contact Price prior to this Change Order:

\$ 420,405.66

Increase of this Change Order:

\$ 22,104.47

Contract Price incorporating this Change Order:

\$ 442,510.13

**CHANGE IN CONTRACT TIMES:**

Original Contract Times:  Working days  Calendar Days

Notice to proceed date: December 18th, 2017

Suspension of days until: \_\_\_\_\_

Substantial completion (days or date): \_\_\_\_\_

Ready for final payment (days or date): \_\_\_\_\_

(Increase) (Decrease) from previously approved Change Orders

No. 0 to No. 0 :

Substantial completion (days): \_\_\_\_\_

Ready for final payment (days): \_\_\_\_\_

Contact Times prior to this Change Order:

Substantial completion (days or date): \_\_\_\_\_

Ready for final payment (days or date): \_\_\_\_\_

(Increase) (Decrease) of this Change Order:

Substantial completion (days or date): \_\_\_\_\_

Ready for final payment (days or date): \_\_\_\_\_

Contract Times with all approved Change Orders:

Substantial completion (days or date): \_\_\_\_\_

Ready for final payment (days or date): \_\_\_\_\_

RECOMMENDED:

ACCEPTED:

ACCEPTED:

By: \_\_\_\_\_  
Engineer (Authorized Signature)

By: \_\_\_\_\_  
Owner (Authorized Signature)

By: \_\_\_\_\_  
Contractor (Authorized Signature)

Date: \_\_\_\_\_

Date: \_\_\_\_\_

Date: \_\_\_\_\_

Approved by Funding Agency (if applicable): \_\_\_\_\_

Date: \_\_\_\_\_





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09-18-2019

To: Keith Boyd – HDR

City of Lee’s Summit, MO – Water Utilities SCADA System Improvements (“City”)

From: Second Sight Systems (“Contractor”)

Re: Change Order Request – Modify Network Management Software to Trend Radio Temperature for all Radios.

**Solarwinds Network Management System**

Second Sight Systems will modify Solarwinds Network Management Software to trend radio temperature for all radios.

**Justification for changes**

Recommended by HDR

**Assumptions and Exceptions:**

Second Sight will not be responsible for impact to network performance caused by the increased demand for tracking temp trends via SNMP.

**Cost**

Configuration and Testing: \$262.51

TOTAL: \$262.51

Reviewed and approved by the following representatives of each organization:

**Second Sight Systems**

Name: Andrew Krekow

Title: Director, O & E

Date: 9/18/19

**City of Lee’s Summit “Owner”**

Name:

Title:

Date:

**HDR Inc. “Engineer”**

Name:

Title:

Date:



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09-20-2019

To: Keith Boyd – HDR

City of Lee’s Summit, MO – Water Utilities SCADA System Improvements (“City”)

From: Second Sight Systems (“Contractor”)

Re: Change Order Request – Install Cavity Filters at Oaks Ridge Meadow and Anderson.

**Install Cavity Filters at Oaks Ridge Meadow and Anderson.**

Second Sight Systems will install cavity bandpass filters at Oaks Ridge Meadow and Anderson.

**Justification for changes**

Recommended by HDR

**Assumptions and Exceptions:**

Second Sight will be responsible for the proper installation and testing of two TX RX /Combilent 11-70-09N 450MHZ cavity filters. Second Sight does not guarantee improved performance at either site.

**Cost**

Materials:	\$688.65
Configuration, Installation and Testing:	\$525.00
TOTAL:	\$1213.65

Reviewed and approved by the following representatives of each organization:

**Second Sight Systems**

Name: Andrew Krekow

Title: Director, O & E

Date: 9/20/19

**City of Lee’s Summit “Owner”**

Name:

Title:

Date:

**HDR Inc. “Engineer”**

Name:

Title:

Date:



09-18-2019

To: Keith Boyd – HDR

City of Lee's Summit, MO – Water Utilities SCADA System Improvements ("City")

From: Second Sight Systems ("Contractor")

Re: Change Order Request – Set Utility Pole at Legacy Woods.

### **Site 15. Legacy Woods**

Second Sight Systems will set a 15ft wooden pole 11.5' AGL at the following coordinates 38°55'18.7"N 94°18'40.9"W. The existing 450 MHZ antenna at Legacy Woods will be relocated to a pole mounted Z bracket at 11' AGL with an azimuth of 219.77°. The pole will be set 3.5' in the ground below grade. The existing 24" air terminal will be relocated, installed and bonded to the #2 AWG tinned Solid wire that will be run the length of the pole to a new ground ring around the pole. Two 10', 5/8" copper clad ground rods will be buried 2' 6" below the surface and exothermically welded to the ground ring. The pole ground ring will consist of #2 AWG tinned solid wire buried 2' 6" below the grade with a 24" inch ring radius around the pole. The ring will be bonded to two runs of #2 AWG tinned solid wire buried 2'6" below grade approximately 20' from the existing control panel/shed ground ring. 1-1/4" Schedule 80 PVC will be run through the same trench. Sweeping 90-degree bends of Rigid 1-1/4" metal conduit will stub up at the pole and at the shelter to accommodate a single run of LDF4-50A. The LDF4-50A will terminate at the existing lightning arrestor at the SCADA cabinet.

### **Justification for changes**

Recommended by HDR

### **Assumptions and Exceptions:**

It is expected that the City will coordinate and perform the utility locate / utility marking prior to SSS arriving on site to begin work.

Its is assumed that the soil is loose small rocks and clay type to a depth of 4' below the grade. Delays caused by large rocks impeding the pole setting augers ability to penetrate the soil at the specified coordinates will result in additional labor charges.



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**Cost**

Utility pole:	\$600.00.
Transport and Delivery of pole and setting equipment.	\$500
RF Materials:	\$375.04
Grounding Materials:	\$303.27
Labor: 3 Techs 2 Days	\$6600
Per Diem:	\$1050.00
TOTAL:	\$9428.31

Reviewed and approved by the following representatives of each organization:

**Second Sight Systems**

Name: Andrew Krekow

Title: Director, O & E

Date: 9/18/19

**City of Lee's Summit "Owner"**

Name:

Title:

Date:

**HDR Inc. "Engineer"**

Name:

Title:

Date:



10-9-2019

To: Keith Boyd – HDR

City of Lee’s Summit, MO – Water Utilities SCADA System Improvements (“City”)

From: Second Sight Systems (“Contractor”)

Re: Change Order Request – Installation of Win-911 Software Supplemental 01

**Site New Operations Facility**

**Win-911 Software Supplemental COR**

Requesting additional application engineering hours and PM for installation and integration of WIN-911 system.

**Justification for changes**

59 additional application engineering hours of sub-contractor services were consumed working to complete the WIN911 installation configuration. Successive problematic issues were discovered with the OPC Server installed on the City’s legacy SCADA PCs by Schneider Electric. Each issue encountered required the sub-contractor’s staff to work with Schneider Electric to refine the configuration of the OPC Server - where such options were identified as possible; or, alternatively, to develop and implement a “work-around” in house to accommodate the installed OPC Server’s shortcomings so that the sub-contractor could continue their work.

Another significant percentage of the additional hours were consumed configuring WIN911 for (178) I/O points versus the originally identified (8) I/O points outputted by the City’s SCADA system to the old auto-dialer alarm. This constituted a scope of work order of magnitude differential more than 22 times greater than that originally quoted

Second Sight is also requesting 5 additional project management hrs. for the expanded scope.

**Previously Quoted Price Augmentation**

Project Management: 5 x \$175.00/hr = \$875

Onsite Engineering and Support: 59 x \$175.00/hr = \$10,325.00

**Total Increase for changed Scope: \$11,200**



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Reviewed and approved by the following representatives of each organization:

**Second Sight Systems**

Name: Andrew Krekow

Title: Project Manager

Date: 10/9/19

**City of Lee's Summit "Owner"**

Name:

Title:

Date:

**HDR Inc. "Engineer"**

Name:

Title:

Date: