



THE CITY OF KEY WEST

Post Office Box 1409 Key West, FL 33041-1409 (305) 809-3883

CHANGE ORDER

CHANGE ORDER NO. 4

CHANGE ORDER DESCRIPTION See attached change order for adding a Bi-directional Amplifier (BDA) system and IT package

PROJECT NAME: Frederick Douglass Community Center

PROJECT CODE: BV55021701

CONTRACTOR NAME: Keystar, Inc

THE FOLLOWING MODIFICATIONS TO THE CONTRACT ARE HEREBY ORDERED: ( Detail provided on additional page(s). Yes [checked] or No [ ] )

Table with 2 columns: CONTRACT VALUE and CONTRACT TIME (CALENDAR DAYS). Rows include ORIGINAL CONTRACT, PREVIOUS CHANGE ORDERS, THIS CHANGE ORDER, and REVISED CONTRACT VALUE/TIME.

REVISED CONTRACT COMPLETION DATE: N/A

By: City of Key West
Authorized Signature
Albert P. Childress
Printed Name
City Manager
Title
Date

RR

By:
Contractor Name
Authorized Signature
Printed Name
Title
Date

**Prime Contract Change Order #004: BDA System and IT Package**

<b>TO:</b>	The City of Key West 1300 White Street Key West, Florida 33040	<b>FROM:</b>	Keystar Inc 5450 Macdonald Ave Suite #3 Key West, Florida 33040
<b>DATE CREATED:</b>	5/16/2024	<b>CREATED BY:</b>	Jeremy Mosher (Keystar Inc)
<b>CONTRACT STATUS:</b>		<b>REVISION:</b>	0
<b>DESIGNATED REVIEWER:</b>		<b>REVIEWED BY:</b>	
<b>DUE DATE:</b>		<b>REVIEW DATE:</b>	
<b>INVOICED DATE:</b>		<b>PAID DATE:</b>	
<b>SCHEDULE IMPACT:</b>		<b>EXECUTED:</b>	No
<b>REVISED SUBSTANTIAL COMPLETION DATE:</b>		<b>SIGNED CHANGE ORDER RECEIVED DATE:</b>	
<b>CONTRACT FOR:</b>	1:	<b>TOTAL AMOUNT:</b>	\$214,108.56

**DESCRIPTION:**

Add BDA System per Check Electric/Pro-Tech proposal #23-1031FDCC2 dated October 30, 2023. Provide & install parts below for 800 MHz & 700 MHz BDA system

- System Components – Public Safety
- 80dB Gain, 30dBm Power 700/800MHz Bi-Directional Amplifier (Public Safety)
- 48V Backup Battery for Public Safety Amplifier
- 1/2" Aircell Plenum Coaxial Cable with Connectors
- 1/2" Foam Heliac Coaxial Cable with Connectors
- Indoor Ceiling Mounted Omni Directional Distribution Antennas per plan
- Directional Donor Antenna 796-896 Mhz Yagi Antenna
- Lightning Protection Per Donor Antenna
- 3 feet jumper cables and extensions
- Assorted couplers, power dividers, duplexers, splitters and directional couplers per plan

1. Provide & install cabling, conduits, junction boxes, fire stoppings, core drills.
2. Provide & install fire alarm relays for fire alarm monitoring.
3. Provide electrical power requirements in BDA room.
4. Provide lbwave and heatmap studies required by county and city.
5. Permit process and running
6. Permit fees
7. Final signal strength approval.

Furnish and install all AV and IT Systems and equipment in accordance with marked up First Floor RCP with speakers, Floor Plan\_Elec IT 4.18.24, and FDCC\_IT AV, and Check Electric Proposal #23-59FDCC revised 5.14.24.

1. Provide & install additional cat.6 drops - Room 122, 124, and AV rack in hall.
  - (5) cat. 6 circuits from IT IDF closet to positions by plans.
  - (2) duplex wall plate + connectors.
2. Provide & install additional cat.6 runs for whips - Studio Eq. room, kitchen, conference rooms 105 and 106.
  - (4) cat. 6 circuits from IT IDF closet to positions by plans.

3. Provide & install speaker circuits for 4 zones.

(20) 16/2 speaker circuits from AV rack in hall by plans.

4. Provide & install AV equipment.

(20) Martin Logan MC6 speakers /w retrofit backboxes, ceiling brackets.

(1) Alesis Multi Mix 10 Wireless Rackmount (Mixer).

(1) Whirlwind DA-2 - Audio Distribution Amplifier.

(1) Crown Audio CT 8150 Eight-channel, 125W @ 4Ohm Power Amplifier.

(1) NEC P627UL – Projector.

(1) Projector ceiling mount (White).

(1) Da-Lite 37602LS - Projector screen.

(1) Middle Atlantic Rack cabinet MMR-1824, vented door, lock, wall bracket.

(1) Rack drawer 2U.

(1) Rack power distribution.

(2) Microphone system connection /provided by others.

(1) Misc (wiring, patch cables, audio cables).

5. Provide & install additional equipment for IDF IT closet.

(1) Change from original 27U 2 post rack to 42U 4 post Middle Atlantic rack with shelves and active cooling.

(1) SMT2200RM2UC (Battery backup).

(1) Cable tray inside IDF IT closet.

(2) Additional cat. 6 patch panels for rack cabinet.

(10) Additional cat. 6 jacks for rack cabinet.

6. Provide & install floor HDMI and USB power for conference room 106.

(1) HDMI wire between TV location and floor box by plans.

(1) USB power receptacle for floor box.

(1) HDMI plate for floor box.

(1) HDMI wall plate for TV location.

7. Provide & install cat. 6 runs from projector location to A/V rack, floor box in main hall and HDMI over cat. 6 interfaces.

(2) cat. 6 circuits from projector location to A/V rack, floor box in main hall.

(1) audio circuit from projector to A/V rack. (Projector audio to speaker system)

(1) cat. 6 module for floor box.

(2) HDMI over cat. 6 interfaces. Metra CS-HDC6EXT4K

(1) Misc (HDMI wires, connectors)

Excludes: Permit costs, access points, network equipment, security cameras  
 Note: We reserve our rights in the event this added scope of work impacts the project schedule

**ATTACHMENTS:**

**POTENTIAL CHANGE ORDERS IN THIS CHANGE ORDER:**

PCO #	Title	Schedule Impact	Amount
013	Add BDA System		\$142,644.57
014	AV and IT Systems		\$71,463.99
<b>Total:</b>			<b>\$214,108.56</b>

**CHANGE ORDER LINE ITEMS:**

**PCO # 013: Add BDA System**

#	Budget Code	Description	Amount
1	16-005.SUB Electrical.Subcontractor	Add BDA System	\$111,738.00
2	90-210.BUR Senior Project Manager.Burden	General Requirements	\$4,469.52
3	90-210.LAB Senior Project Manager.Labor	General Conditions	\$7,262.97
4	90-500.OTH Contractor Fee.Other	Fee	\$12,347.05
5	90-475.OTH P & P Bonds.Other	Bond	\$1,358.18
6	90-450.OTH General Liability - On Site.Other	General Liability	\$2,057.63
7	90-460.OTH Builders Risk Policy.Other	Builder's Risk	\$3,411.22
<b>Grand Total:</b>			<b>\$142,644.57</b>

**PCO # 014: AV and IT Systems**

#	Budget Code	Description	Amount
1	16-005.SUB Electrical.Subcontractor	AV and IT Systems	\$55,980.00
2	90-210.BUR Senior Project Manager.Burden	General Requirements	\$2,239.20
3	90-210.LAB Senior Project Manager.Labor	General Conditions	\$3,638.70
4	90-500.OTH Contractor Fee.Other	Fee	\$6,185.79
5	90-475.OTH P & P Bonds.Other	Bond	\$680.44
6	90-450.OTH General Liability - On Site.Other	General Liability	\$1,030.86
7	90-460.OTH Builders Risk Policy.Other	Builder's Risk	\$1,709.00
<b>Grand Total:</b>			<b>\$71,463.99</b>

The original (Contract Sum)	\$7,985,927.86
Net change by previously authorized Change Orders	\$181,614.68
The contract sum prior to this Change Order was	\$8,167,542.54
The contract sum would be changed by this Change Order in the amount of	\$214,108.56
The new contract sum including this Change Order will be	\$8,381,651.10
The contract time will not be changed by this Change Order.	

**Devon Ayers (K2M DESIGN INC.)**

**The City of Key West**  
 1300 White Street  
 Key West, Florida 33040

**Keystar Inc**  
 5450 Macdonald Ave Suite #3  
 Key West, Florida 33040

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