

SECURITY CAMERA SYSTEM

a proposal for

Rocky Boy Schools

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Prepared on
1/14/19 by
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Project Description

The objective is to create a surveillance system that provides the maximum amount of coverage of the entire campus. Many factors come into effect when designing a surveillance system to meet or exceed the expectations, the main one being quality of the image that is being captured. We have specified high definition cameras to ensure that the areas we capture will be of high quality and deliver the data that is needed. We also factor how the students function inside the school and the entire campus. We focused on the areas where the students and staff travel everyday, and then made sure we covered the hard to see areas. All the cameras are specified in the common areas and the grounds areas of each building. This will allow authorized users to have eyes on the entire campus. We have also included a revolutionary product called Ella, Ella is a search engine similar to google. that will allow quick searching for common things like: "person in red shirt" it will find all clips with a person in a red shirt. Or "fedex truck on friday" maybe the fedex guy hit Voyd's car, now Voyd has proof. The other unique design of our system is it is locally recording as well as storing the data to the cloud for up to 30 days. This ensures that no data will be lost for that time period. We have also designed the system to have multiple users with remote access and can dedicate their status in regards to be able to view only, or be an administer on the system. This allows us to create a user for law enforcement for emergency situations, admins at each building, and administrative remote access via any device if desired.

Below is the scope of work to be completed:

Replace High School Cameras (15) with new IP Cameras and add 5 additional cameras where needed. Install new wiring and create a central viewing station in the High school. Add 20 Cameras to the Elementary School with a central station viewing center or access via admin viewing rights. Add 5 cameras to the admin building covering the exterior and the inventory area, there will also be a central viewing station in the admin building. The system will have a 30 days recording time both locally and on the cloud, with remote access, trigger notifications, search functionality. Cameras consist of 45 commercial grade HD resolution dome cameras.

Prewire should consist of Category 6 plenum rated cable or higher with service loops at

each location. All wiring is to be ran in wall / in ceiling or in conduit where needed. All wire runs will be tested and certified to operate for the required specs.

SYSTEM REQUIREMENT: The system will require Rocky Boy Schools to provide Network switches for the new IP camera system. This is to be designed and provided by Rocky Boy Schools IT Director Robert Parker and deployed and installed at the time of camera installation or prior to. In conjunction with the already planned E-rate network upgrade we will be able to work with Robert in resolving all current network issues as well as create a more robust, safe and manageable network for years to come. Innovative Living Group will become Rocky Boy Schools Cisco Meraki Networking rep if the proposed contract to hire Innovative Living Group as the IT Systems and Services provider is approved.

System Spec Sheets:

[Dat_AVR816S.pdf](#)

[Dat_ICIPD4732Z.pdf](#)








[Dat_ICTV.pdf](#)

[Ella Smart Search Video 1](#)

Areas & Items

High School

20 cameras with one central viewing station.

Items		Unit Sell	Total
	IC Realtime ICIP-D4732Z 4MP IP IndoorOutdoor Mid Size	\$279.00 Qty: 20	\$5,580.00
	IC Realtime ella pro 8 Channel ella Pro Intelligent Search Engine Streaming Box	\$799.00 Qty: 4	\$3,196.00
	IC Realtime STREAM-2s-016 Streaming camera player for remote view	\$299.00 Qty: 1	\$299.00
	IC Realtime MNT-ARM-MPB300S WALL ARM DVIR/P2000M4/N23X4D	\$29.90 Qty: 2	\$59.80
	IC Realtime MNT-BOX-MPA120 (MPA120) MOUNTING BOX	\$79.98 Qty: 2	\$159.96
	IC Realtime MNT-JUNCTION BOX 8 OUTDOOR ROUND JUNCTION BOX	\$39.98 Qty: 18	\$719.64
	IC REALTIME ELLASTREAM ELLA STREAM/CLOUD PER CAMERA YEARLY LICENSING AND CLOUD STORAGE FEE. CAN BE CUSTOMIZED TO SELECTED CAMERAS OR ALL. INCLUDES ANNUAL SUPPORT FROM DEALER.	\$150.00 Qty: 20	\$3,000.00
	Labor Camera Prewire including Category6 data wiring terminated, tested, and certified.	\$175.00 Qty: 20	\$3,500.00
	Labor Camera Install	\$40.00 Qty: 20	\$800.00







High School Total : \$17,314.40

201-2-100-2222-610 = \$2,500 -
 201-2-100-1000-610 = \$2,500 -
 201-2-100-1000-660 = \$3,000 -
 101-3-140-1000-610 = \$2,500 -
 101-3-140-2222-660 = \$1,500 -
 101-3-140-2400-660 = \$2,000 -
 201-2-100-2400-610 = \$1,200 -
 201-2-100-2600-660 = \$1,150 -
 201-2-100-1000-660 = \$964.40

Elementary School

does any of this include the kitchen?

20 cameras with one central viewing station.








Items		Unit Sell	Total
	IC Realtime ICIP-D4732Z 4MP IP IndoorOutdoor Mid Size	\$279.00 Qty: 20	\$5,580.00
	IC Realtime ella pro 8 Channel ella Pro Intelligent Search Engine Streaming Box	\$799.00 Qty: 4	\$3,196.00
	IC Realtime STREAM-2s-016 Streaming camera player for remote view	\$299.00 Qty: 1	\$299.00
	IC Realtime MNT-ARM-B GOOSE NECK ARM	\$29.90 Qty: 2	\$59.80
	IC Realtime MNT-BOX-MPA120 (MPA120) MOUNTING BOX	\$79.98 Qty: 2	\$159.96
	IC Realtime MNT-JUNCTION BOX 8 OUTDOOR ROUND JUNCTION BOX	\$39.98 Qty: 18	\$719.64
	IC REALTIME ELLASTREAM ELLA STREAM/CLOUD PER CAMERA YEARLY LICENSING AND CLOUD STORAGE FEE. CAN BE CUSTOMIZED TO SELECTED CAMERAS OR ALL. INCLUDES ANNUAL SUPPORT FROM DEALER.	\$150.00 Qty: 20	\$3,000.00
	Labor Camera Prewire including Category6 data wiring terminated, tested, and certified.	\$175.00 Qty: 20	\$3,500.00
	Labor Camera Install	\$40.00 Qty: 20	\$800.00

Elementary School Total : \$17,314.40

*101-1-100 1000-660 = \$7,500-
 101-1-100-2222-660 = \$4,500-
 101-1-100-2000-660 = \$3,200-
 101-3-140-1000-660 = \$1,500-
 101-2-140-2222-660 = \$1,500-
 6,144.40*

Admin

5 cameras with one central viewing station.

Item:		Unit Sell	Total
	IC Realtime ICIP-D4732Z 4MP IP IndoorOutdoor Mid Size	\$279.00 Qty: 5	\$1,395.00
	IC Realtime ella pro 8 Channel ella Pro Intelligent Search Engine Streaming Box	\$799.00 Qty: 1	\$799.00
	IC Realtime STREAM-2s-016 Streaming camera player for remote view	\$299.00 Qty: 1	\$299.00
	IC Realtime AVR-816S 16 Channel 2U Rackmount DVR <i>MASTER LOCAL DVR -24TB Hard Drive</i>	\$3,938.00 Qty: 1	\$3,938.00
	Labor Camera Prewire including Category6 data wiring terminated, tested, and certified.	\$175.00 Qty: 5	\$875.00
	Labor Camera Installation	\$40.00 Qty: 5	\$200.00
	Labor Programming & Setup	\$150.00 Qty: 5	\$750.00

Admin Total : \$8,256.00

$101-1-100-2300-610 = \$800.00$
 $201-2-100-2300-600 = \$900.00$
 $201-2-100-2700-610 = \$1,100.00$
 $130-100-2500-600 = \$5,356.00$

Financial Summary

Parts Total	\$32,459.80
Labor Total	\$10,425.00
Total	\$42,884.80
Tax (0.0000% on parts)	\$0.00
Grand Total	\$42,884.80

• **Payment Schedule**

Initial payment is required for to purchase the product and materials for the project. Invoicing can be separated in two invoices if needed for product and materials on invoice one and Labor on second and final invoice. Below is typically how we require the payment structure for projects like this. We are flexible to make the payment structure work for your billing department.

75% of total proposal due upon acceptance = \$32,165.00

25% due upon completion = \$10719.80

Total Project Bid= \$42884.80 (additional network equipment provided by Rocky Boy schools) Included in E-rate Project 2019

• **Project Terms**

All change orders require signature and full payment before products are ordered and any work for the change order is started. The scope of work above is scheduled to be completed in 3-4 weeks. Once the project is approved and initial payment is received, we schedule the work to begin an estimated 2-3 weeks out from that date. Some products take longer to get in and may determine the project start date. This proposal is valid for 30 days from the date submitted.

Thank You for the opportunity and we look forward to working with you.

Brian Jenkins