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T5J 1S6  
Bid Fax: (780) 497-3510

## SOLICITATION AMENDMENT MODIFICATION DE L'INVITATION

The referenced document is hereby revised; unless otherwise indicated, all other terms and conditions of the Solicitation remain the same.

Ce document est par la présente révisé; sauf indication contraire, les modalités de l'invitation demeurent les mêmes.

Comments - Commentaires

Vendor/Firm Name and Address  
Raison sociale et adresse du  
fournisseur/de l'entrepreneur

Issuing Office - Bureau de distribution  
Public Works and Government Services Canada  
ATB Place North Tower  
10025 Jasper Ave./10025 ave Jasper  
5th floor/5e étage  
Edmonton  
Alberta  
T5J 1S6

<b>Title - Sujet</b> Fire Alarm Upgrade	
<b>Solicitation No. - N° de l'invitation</b> EV385-171453/A	<b>Amendment No. - N° modif.</b> 006
<b>Client Reference No. - N° de référence du client</b> CSC EV385-171453	<b>Date</b> 2016-11-14
<b>GETS Reference No. - N° de référence de SEAG</b> PW-\$PWU-183-10873	
<b>File No. - N° de dossier</b> PWU-6-39164 (183)	<b>CCC No./N° CCC - FMS No./N° VME</b>
<b>Solicitation Closes - L'invitation prend fin</b> <b>at - à 02:00 PM</b> <b>on - le 2016-11-30</b>	
<b>Time Zone</b> Fuseau horaire Mountain Daylight Saving Time MDT	
<b>F.O.B. - F.A.B.</b> <b>Plant-Usine:</b> <input type="checkbox"/> <b>Destination:</b> <input type="checkbox"/> <b>Other-Autre:</b> <input type="checkbox"/>	
<b>Address Enquiries to: - Adresser toutes questions à:</b> Tikhonovitch (RPC), Alex	<b>Buyer Id - Id de l'acheteur</b> pwu183
<b>Telephone No. - N° de téléphone</b> (780) 901-7940 ( )	<b>FAX No. - N° de FAX</b> (780) 497-3510
<b>Destination - of Goods, Services, and Construction:</b> <b>Destination - des biens, services et construction:</b>	

Instructions: See Herein

Instructions: Voir aux présentes

<b>Delivery Required - Livraison exigée</b>	<b>Delivery Offered - Livraison proposée</b>
<b>Vendor/Firm Name and Address</b> <b>Raison sociale et adresse du fournisseur/de l'entrepreneur</b>	
<b>Telephone No. - N° de téléphone</b> <b>Facsimile No. - N° de télécopieur</b>	
<b>Name and title of person authorized to sign on behalf of Vendor/Firm</b> <b>(type or print)</b> <b>Nom et titre de la personne autorisée à signer au nom du fournisseur/</b> <b>de l'entrepreneur (taper ou écrire en caractères d'imprimerie)</b>	
<b>Signature</b>	<b>Date</b>

**Cette modification de sollicitation a été soulevée pour ajouter le rapport d'alarme incendie.**

**Tous les autres termes et conditions demeurent inchangées.**



Public Works and Government Services  
Canada

# Prince Albert Penitentiary Fire Alarm System Report

GENIVAR File 101-14700-00

A u g u s t , 2 0 1 1

Report Completed by:  
Tim Kalyuka  
Electrical Technologist



GENIVAR



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## Summary

We were retained by Public Works & Government Services Canada to provide an assessment of the existing Prince Albert Penitentiary Fire Alarm System equipment. The following report provides a summary of the current fire alarm system equipment in the reviewed buildings and recommendations to upgrade the current system, along with estimated costs, to Canadian Building Code (NBC), Public Works and CSC requirements.

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## Building B1- Central Dome

1. Summary
  - a. Old style alarm bells in area
  - b. Old style pull stations in area
  - c. Heat detectors at end of life (EOL) and redundant in sprinklered areas
  - d. Detectors mounted on dome ceiling at EOL
  - e. Duct smoke detection on return air duct(s) in lieu of supply ducts as required
2. Recommendations
  - a. Replace all old style alarm bells in area with new horn strobes. Add additional horn strobes to area to meet NBC requirements
  - b. Replace all old style pull stations in area with new addressable pull stations. Consider keyed pullstations at building exits of inmate occupied areas
  - c. Remove all heat detectors from sprinklered areas and replace all remaining EOL heat detectors with new addressable detectors in un-sprinklered areas
  - d. Remove smoke detectors mounted on dome ceiling and replace with beam smoke detectors which are able to be serviced and not required to be mounted on the dome ceiling
  - e. Remove duct smoke detectors on return air ducts and install new duct smoke detectors on supply air ducts. Ensure air circulation shut down upon alarm activation.
3. Priority: Medium

Table 1: Building B1 Estimated Cost Summary

B1						
Device	Existing Device Total	Devices Removed	New Device Total	Device Cost (ea.)	Labour	Device Cost Total
Panel	0			\$20,000.00	\$ -	\$ -
Annunciator	0			\$ 5,000.00	\$ -	\$ -
Smoke Detector	0		1	\$ 350.00	\$ 1,000.00	\$ 2,400.00
Heat Detector	24	24		\$ 350.00	\$ 6,000.00	\$ 6,000.00
Pullstation	2	2	4	\$ 300.00	\$ 1,500.00	\$ 2,700.00
Signal Device	2	2	6	\$ 300.00	\$ 2,000.00	\$ 3,800.00
Duct Detector	1	3	3	\$ 350.00	\$ 1,500.00	\$ 2,550.00
Monitor/Control Module	0		3	\$ 300.00	\$ 750.00	\$ 1,650.00
Vesda	0			\$ -	\$ -	\$ -
Total Cost Estimate						\$ 19,100.00



## Building B2- Main Entry/Control/Records

1. Summary
  - a. Old style alarm bells in area
  - b. Old style pull stations in area
  - c. Heat detectors at end of life (EOL) and redundant in sprinklered areas
  - d. Duct smoke detection on return air duct(s) in lieu of supply ducts as required
2. Recommendations
  - a. Replace all old style alarm bells in area with new horn strobes. Add additional horn strobes to area to meet NBC requirements
  - b. Replace all old style pull stations in area with new addressable pull stations. Consider keyed pullstations at building exits of inmate occupied areas
  - c. Remove all heat detectors from sprinklered areas and replace all remaining EOL heat detectors with new addressable detectors in un-sprinklered areas
  - d. Remove duct smoke detectors on return air ducts and install new duct smoke detectors on supply air ducts. Ensure air circulation shut down upon alarm activation
  - e. Install new main fire alarm panel in new electrical room being built in Building B4 Exercise Room. Remove existing fire alarm panel from Room 329 and replace with new Annunciator installed in Main Control Room (210). This will allow for gradual migration to the new fire alarm panel while maintaining the current system.
3. Priority: High

Table 2: Building B2 Estimated Cost Summary

B2						
Device	Existing Device Total	Devices Removed	New Device Total	Device Cost (ea.)	Labour	Device Cost Total
Panel	1	1		\$20,000.00	\$ -	\$ -
Annunciator	0		1	\$ 5,000.00	\$ -	\$ 5,000.00
Smoke Detector	4		4	\$ 350.00	\$ 1,000.00	\$ 2,400.00
Heat Detector	70	70		\$ 350.00	\$17,500.00	\$ 17,500.00
Pullstation	8	8	12	\$ 300.00	\$ 5,000.00	\$ 8,600.00
Signal Device	8	8	24	\$ 300.00	\$ 8,000.00	\$ 15,200.00
Duct Detector	2	2	2	\$ 300.00	\$ 1,000.00	\$ 1,600.00
Monitor/Control Module	6		2	\$ 300.00	\$ 500.00	\$ 1,100.00
Vesda	0			\$ -	\$ -	\$ -
<b>Total Cost Estimate</b>						<b>\$ 51,400.00</b>

## Building B13- Admission & Discharge

1. Summary
  - a. Additional signal devices required in area.
  - b. Heat detectors at end of life (EOL) and redundant in sprinklered areas
  - c. Smoke detectors at EOL.
  - d. Duct smoke detection on return air duct(s) in lieu of supply ducts as required
2. Recommendations
  - a. Add additional horn strobes in area to meet NBC requirements
  - b. Consider keyed pullstations at building exits of inmate occupied areas
  - c. Remove all heat detectors from sprinklered areas and replace all remaining EOL heat detectors with new addressable detectors in un-sprinklered areas
  - d. Replace all expired or damaged smoke detectors with new addressable detectors in required areas.
  - e. Install guards on smoke detectors in all prisoner accessible areas.
  - f. Remove duct smoke detectors on return air ducts and install new duct smoke detectors on supply air ducts. Ensure air circulation shut down upon alarm activation
3. Priority: Low

Table 3: Building B13 Estimated Cost Summary

B13						
Device	Existing Device Total	Devices Removed	New Device Total	Device Cost (ea.)	Labour	Device Cost Total
Panel	0			\$20,000.00	\$ -	\$ -
Annunciator	0			\$ 5,000.00	\$ -	\$ -
Smoke Detector	0		8	\$ 350.00	\$ 2,000.00	\$ 4,800.00
Heat Detector	0			\$ 350.00	\$ -	\$ -
Detector Guards	0		8	\$ 200.00	\$ 1,400.00	\$ 3,000.00
Pullstation	7		3	\$ 300.00	\$ 750.00	\$ 1,650.00
Signal Device	4		8	\$ 300.00	\$ 2,000.00	\$ 4,400.00
Duct Detector	0		2	\$ 350.00	\$ 500.00	\$ 1,200.00
Monitor/Control Module	10		2	\$ 300.00	\$ 500.00	\$ 1,100.00
Vesda	0			\$ -	\$ -	\$ -
Total Cost Estimate						\$ 16,150.00



## Building B3- Cell Block Range A & B

1. Summary
  - a. Additional signal devices required in area.
  - b. Old style pull stations in area
  - c. Smoke detectors at FOI
  - d. Junctions in cell block raceway unsealed and corroded in wet environment causing shorting and false alarms
2. Recommendations
  - a. Add additional horn strobes in area to meet NBC requirements
  - b. Replace all old style pull stations in area with new addressable pull stations. Consider keyed pullstations at building exits of inmate occupied areas
  - c. Replace all expired or damaged smoke detectors with new addressable detectors in required areas.
  - d. Install guards on smoke detectors in all prisoner accessible areas
  - e. Replace all conduit, wiring and junction boxes in cell block raceway with sealed weatherproof components to avoid future false alarms and corrosion.
3. Priority: High

Table 4: Building B3 Estimated Cost Summary

B3						
Device	Existing Device Total	Devices Removed	New Device Total	Device Cost (ea.)	Labour	Device Cost Total
Panel	0			\$20,000.00	\$ -	\$ -
Annunciator	0			\$ 5,000.00	\$ -	\$ -
Smoke Detector	225		225	\$ 350.00	\$56,250.00	\$135,000.00
Heat Detector	0			\$ 350.00	\$ -	\$ -
Detector Guards	0		225	\$ 200.00	\$39,375.00	\$ 84,375.00
Pullstation	0		1	\$ 300.00	\$ 250.00	\$ 550.00
Signal Device	8		8	\$ 300.00	\$ 2,000.00	\$ 4,400.00
Duct Detector	0			\$ 350.00	\$ -	\$ -
Monitor/Control Module	28			\$ 300.00	\$ -	\$ -
Vesda	0			\$ -	\$ -	\$ -
Upgrade Conduit/Wire	0		1	\$ 3,312.00	\$ 4,204.00	\$ 7,596.00
Total Cost Estimate						\$231,921.00

## Building B7- Prisoner Intake

1. Summary
  - a. Old style alarm bells in area
  - b. Old style pull stations in area
  - c. Heat detectors at end of life (EOL) and redundant in sprinklered areas
  - d. Smoke detectors at EOL
  - e. Smoke detectors installed on ceiling may require relocation due to bulkheads
  - f. Duct smoke detection on return air duct(s) in lieu of supply ducts as required
2. Recommendations
  - a. Replace all old style alarm bells in area with new horn strobes. Add additional horn strobes in area to meet NBC requirements
  - b. Replace all old style pull stations in area with new addressable pull stations. Consider keyed pullstations at building exits of inmate occupied areas
  - c. Remove all heat detectors from sprinklered areas and replace all remaining EOL heat detectors with new addressable detectors in un-sprinklered areas
  - d. Replace all expired or damaged smoke detectors with new addressable detectors in required areas.
  - e. Install guards on smoke detectors in all prisoner accessible areas
  - f. Remove duct smoke detectors on return air ducts and install new duct smoke detectors on supply air ducts. Ensure air circulation shut down upon alarm activation
3. Priority: Medium

Table 5: Building B7 Estimated Cost Summary

B7						
Device	Existing Device Total	Devices Removed	New Device Total	Device Cost (ea.)	Labour	Device Cost Total
Panel	0			\$20,000.00	\$ -	\$ -
Annunciator	0			\$ 5,000.00	\$ -	\$ -
Smoke Detector	37		37	\$ 350.00	\$ 9,250.00	\$ 22,200.00
Heat Detector	1	1		\$ 350.00	\$ 250.00	\$ 250.00
Detector Guards	0		37	\$ 200.00	\$ 6,475.00	\$ 13,875.00
Pullstation	7	7	10	\$ 300.00	\$ 4,250.00	\$ 7,250.00
Signal Device	3	3	9	\$ 300.00	\$ 3,000.00	\$ 5,700.00
Duct Detector	2	2	2	\$ 350.00	\$ 1,000.00	\$ 1,700.00
Monitor/Control Module	18		2	\$ 300.00	\$ 500.00	\$ 1,100.00
Vesda	0			\$ -	\$ -	\$ -
Total Cost Estimate						\$ 52,075.00

## Building B5- Cell Block Range E & F

1. Summary
  - a. Additional signal devices required in area.
  - b. Old style pull stations in area
  - c. Smoke detectors at EOL
  - d. Junctions in cell block raceway unsealed and corroded in wet environment causing shorting and false alarms
2. Recommendations
  - a. Add additional horn strobes in area to meet NBC requirements
  - b. Replace all old style pull stations in area with new addressable pull stations. Consider keyed pullstations at building exits of inmate occupied areas
  - c. Replace all expired or damaged smoke detectors with new addressable detectors in required areas.
  - d. Install guards on smoke detectors in all prisoner accessible areas
  - e. Replace all conduit, wiring and junction boxes in cell block raceway with sealed weatherproof components to avoid future false alarms and corrosion.
3. Priority: High

Table 6: Building B5 Estimated Cost Summary

B5						
Device	Existing Device Total	Devices Removed	New Device Total	Device Cost (ea.)	Labour	Device Cost Total
Panel	0			\$20,000.00	\$ -	\$ -
Annunciator	0			\$ 5,000.00	\$ -	\$ -
Smoke Detector	277		277	\$ 350.00	\$69,250.00	\$166,200.00
Heat Detector	1		1	\$ 350.00	\$ 250.00	\$ 600.00
Detector Guards	0		277	\$ 200.00	\$48,475.00	\$103,075.00
Pullstation	1	1	2	\$ 300.00	\$ 750.00	\$ 1,350.00
Signal Device	8		8	\$ 300.00	\$ 2,000.00	\$ 4,400.00
Duct Detector	0			\$ 350.00	\$ -	\$ -
Monitor/Control Module	25			\$ 300.00	\$ -	\$ -
Vesda	0			\$ -	\$ -	\$ -
Upgrade Conduit/Wire	0		1	\$ 3,312.00	\$ 4,284.00	\$ 7,596.00
Total Cost Estimate						\$284,021.00



## Building B8-Classroom/ Rec Room/Electrical Room

1. Summary
  - a. Old style alarm bells in area
  - b. Old style pull stations in area
  - c. Heat detectors at end of life (EOL) and redundant in sprinklered areas
  - d. Smoke detectors at EOL
  - e. Duct smoke detection on return air duct(s) in lieu of supply ducts as required
2. Recommendations
  - a. Replace all old style alarm bells in area with new horn strobes. Add additional horn strobes to area to meet NBC requirements
  - b. Replace all old style pull stations in area with new addressable pull stations. Consider keyed pullstations at building exits of inmate occupied areas
  - c. Remove all heat detectors from sprinklered areas and replace all remaining EOL heat detectors with new addressable detectors in un-sprinklered areas
  - d. Replace all expired or damaged smoke detectors with new addressable detectors in required areas.
  - e. Remove duct smoke detectors on return air ducts and install new duct smoke detectors on supply air ducts. Ensure air circulation shut down upon alarm activation
3. Priority: High

Table 7: Building B8 Estimated Cost Summary

B8						
Device	Existing Device Total	Devices Removed	New Device Total	Device Cost (ea.)	Labour	Device Cost Total
Panel	0			\$20,000.00	\$ -	\$ -
Annunciator	0			\$ 5,000.00	\$ -	\$ -
Smoke Detector	10		10	\$ 350.00	\$ 2,500.00	\$ 6,000.00
Heat Detector	42	42		\$ 350.00	\$10,500.00	\$ 10,500.00
Pullstation	4	4	6	\$ 300.00	\$ 2,500.00	\$ 4,300.00
Signal Device	4	4	12	\$ 300.00	\$ 4,000.00	\$ 7,600.00
Duct Detector	0		2	\$ 350.00	\$ 500.00	\$ 1,200.00
Monitor/Control Module	0		2	\$ 300.00	\$ 500.00	\$ 1,100.00
Vesda	0			\$ -	\$ -	\$ -
<b>Total Cost Estimate</b>						<b>\$ 30,700.00</b>

## Building B4 Library/Offices/Chapel/Exercise Room

### 1. Summary

- a. Old style alarm bells in area
- b. Old style pull stations in area
- c. Heat detectors at end of life (EOL) and redundant in sprinklered areas
- d. Smoke detectors at EOL
- e. Duct smoke detection on return air duct(s) in lieu of supply ducts as required
- f. No smoke detection in corridor of inmate sleeping areas
- g. Elevator shaft has heat detector installed, smoke detector required

### 2. Recommendations

- a. Replace all old style alarm bells in area with new horn strobes. Add additional horn strobes to area to meet NBC requirements
- b. Replace all old style pull stations in area with new addressable pull stations. Consider keyed pullstations at building exits of inmate occupied areas
- c. Remove all heat detectors from sprinklered areas and replace all remaining EOL heat detectors with new addressable detectors in un-sprinklered areas
- d. Replace all expired or damaged smoke detectors with new addressable detectors in required areas.
- e. Install guards on smoke detectors in all prisoner accessible areas
- f. Install smoke detection in corridors of inmate sleeping areas
- g. Remove duct smoke detectors on return air ducts and install new duct smoke detectors on supply air ducts. Ensure air circulation shut down upon alarm activation
- h. Install smoke detection in elevator shaft and elevator machine room. Ensure elevator is equipped with automatic emergency recall

### 3. Priority: High

Table 8: Building B4 Estimated Cost Summary

B4						
Device	Existing Device Total	Devices Removed	New Device Total	Device Cost (ea.)	Labour	Device Cost Total
Panel	0		1	\$20,000.00	\$ -	\$ 20,000.00
Annunciator	0			\$ 5,000.00	\$ -	\$ -
Smoke Detector	38		44	\$ 350.00	\$11,000.00	\$ 26,400.00
Heat Detector	48	48		\$ 350.00	\$12,000.00	\$ 12,000.00
Detector Guard	0		12	\$ 200.00	\$ 2,100.00	\$ 4,500.00
Pullstation	3	3	5	\$ 300.00	\$ 2,000.00	\$ 3,500.00
Signal Device	6	6	12	\$ 300.00	\$ 4,500.00	\$ 8,100.00
Duct Detector	2	2	2	\$ 350.00	\$ 1,000.00	\$ 1,700.00
Monitor/Control Module	14		2	\$ 300.00	\$ 500.00	\$ 1,100.00
Vesda	0			\$ -	\$ -	\$ -
Total Cost Estimate						\$ 77,300.00



## Building B11- Kitchen & Dining

1. Summary
  - a. Old style alarm bells in area
  - b. Old style pull stations in area
  - c. Heat detectors at end of life (EOL) and redundant in sprinklered areas
  - d. Smoke detectors at EOL
  - e. Duct smoke detection on return air duct(s) in lieu of supply ducts as required
2. Recommendations
  - a. Replace all old style alarm bells in area with new horn strobes. Add additional horn strobes to area to meet NBC requirements
  - b. Replace all old style pull stations in area with new addressable pull stations. Consider keyed pullstations at building exits of inmate occupied areas
  - c. Remove all heat detectors from sprinklered areas and replace all remaining EOL heat detectors with new addressable detectors in un-sprinklered areas
  - d. Replace all expired or damaged smoke detectors with new addressable detectors in required areas.
  - e. Remove duct smoke detectors on return air ducts and install new duct smoke detectors on supply air ducts. Ensure air circulation shut down upon alarm activation
3. Priority: High

Table 9: Building B11 Estimated Cost Summary

B11						
Device	Existing Device Total	Devices Removed	New Device Total	Device Cost (ea.)	Labour	Device Cost Total
Panel	0			\$20,000.00	\$ -	\$ -
Annunciator	0			\$ 5,000.00	\$ -	\$ -
Smoke Detector	0			\$ 350.00	\$ -	\$ -
Heat Detector	20	20		\$ 350.00	\$ 5,000.00	\$ 5,000.00
Pullstation	7	7	12	\$ 100.00	\$ 4,750.00	\$ 8,350.00
Signal Device	8	8	16	\$ 300.00	\$ 6,000.00	\$ 10,800.00
Duct Detector	2	2	2	\$ 350.00	\$ 1,000.00	\$ 1,700.00
Monitor/Control Module	20		2	\$ 300.00	\$ 500.00	\$ 1,100.00
Vesda	0			\$ -	\$ -	\$ -
Total Cost Estimate						\$ 26,950.00

## Building B12- Hospital

1. Summary
  - a. Old style alarm bells in area
  - b. Old style pull stations in area
  - c. Heat detectors at end of life (EOL) and redundant in sprinklered areas
  - d. Smoke detectors at EOL
  - e. Smoke detectors used as duct smoke detectors for holding cell detection
  - f. Duct smoke detection on return air duct(s) in lieu of supply ducts as required
  - g. Old Sentron Annunciator
2. Recommendations
  - a. Replace all old style alarm bells in area with new horn strobes. Add additional horn strobes to area to meet NBC requirements
  - b. Replace all old style pull stations in area with new addressable pull stations. Consider keyed pullstations at building exits of inmate occupied areas
  - c. Remove all heat detectors from sprinklered areas and replace all remaining EOL heat detectors with new addressable detectors in un-sprinklered areas
  - d. Replace all expired or damaged smoke detectors with new addressable detectors in required areas.
  - e. Install smoke detection in cells & corridors of inmate sleeping areas
  - f. Install guards on smoke detectors in all prisoner accessible areas
  - g. Remove duct smoke detectors on return air ducts and install new duct smoke detectors on supply air ducts. Ensure air circulation shut down upon alarm activation
  - h. Remove old Sentron Annunciator, Annunciation will be provided by New Annunciator installed in B2 Main Control Room.
3. Priority: High

Table 10: Building B12 Estimated Cost Summary

B12						
Device	Existing Device Total	Devices Removed	New Device Total	Device Cost (ea.)	Labour	Device Cost Total
Panel	0			\$20,000.00	\$ -	\$ -
Annunciator	1	1		\$ 5,000.00	\$ -	\$ -
Smoke Detector	8		20	\$ 350.00	\$ 5,000.00	\$ 12,000.00
Heat Detector	20	20		\$ 350.00	\$ 5,000.00	\$ 5,000.00
Detector Guards	0		16	\$ 200.00	\$ 2,800.00	\$ 6,000.00
Pullstation	3	3	5	\$ 300.00	\$ -	\$ 1,500.00
Signal Device	3	3	9	\$ 300.00	\$ -	\$ 2,700.00
Duct Detector	1	1	1	\$ 350.00	\$ -	\$ 350.00
Monitor/Control Module	0		1	\$ 300.00	\$ -	\$ 300.00
Vesda	0			\$ -	\$ -	\$ -
Total Cost Estimate						\$ 27,850.00

## Building C19- Gymnasium

### 1. Summary

- a. Old style alarm bells in area
- b. Old style pull stations in area
- c. Heat detectors at end of life (EOL) and redundant in sprinklered areas
- d. Smoke detectors at EOL
- e. Duct smoke detection on return air duct(s) in lieu of supply ducts as required

### 2. Recommendations

- a. Replace all old style alarm bells in area with new horn strobes. Add additional horn strobes to area to meet NBC requirements
- b. Replace all old style pull stations in area with new addressable pull stations. Consider keyed pullstations at building exits of inmate occupied areas
- c. Remove all heat detectors from sprinklered areas and replace all remaining EOL heat detectors with new addressable detectors in un-sprinklered areas
- d. Replace all expired or damaged smoke detectors with new addressable detectors in required areas.
- e. Remove duct smoke detectors on return air ducts and install new duct smoke detectors on supply air ducts. Ensure air circulation shut down upon alarm activation

### 3. Priority: High

Table 11: Building C19 Estimated Cost Summary

C19						
Device	Existing Device Total	Devices Removed	New Device Total	Device Cost (ea.)	Labour	Device Cost Total
Panel	0			\$20,000.00	\$ -	\$ -
Annunciator	0			\$ 5,000.00	\$ -	\$ -
Smoke Detector	0			\$ 350.00	\$ -	\$ -
Heat Detector	42	42		\$ 350.00	\$10,500.00	\$ 10,500.00
Pullstation	3	3	5	\$ 300.00	\$ 2,000.00	\$ 3,500.00
Signal Device	3	3	9	\$ 300.00	\$ 3,000.00	\$ 5,700.00
Duct Detector	0		2	\$ 350.00	\$ 500.00	\$ 1,200.00
Monitor/Control Module	0		2	\$ 300.00	\$ 500.00	\$ 1,100.00
Vesda	0			\$ -	\$ -	\$ -
Total Cost Estimate						\$ 22,000.00



## Building B10- Cultural Centre

1. Summary
  - a. Heat detectors at end of life (EOL) and redundant in sprinklered areas
  - b. Smoke detectors at EOL
2. Recommendations
  - a. Remove all heat detectors from sprinklered areas and replace all remaining EOL heat detectors with new addressable detectors in un-sprinklered areas
  - b. Replace all expired or damaged smoke detectors with new addressable detectors in required areas.
  - c. Install new networkable panel for building and network to New Main Fire Alarm System Panel Installed in new electrical room of Building B4.
3. Priority: Low

Table 12: Building B10 Estimated Cost Summary

B10						
Device	Existing Device Total	Devices Removed	New Device Total	Device Cost (ea.)	Labour	Device Cost Total
Panel	0		1	\$20,000.00	\$ -	\$ 20,000.00
Annunciator	0		1	\$ 5,000.00	\$ -	\$ 5,000.00
Smoke Detector	14		14	\$ 350.00	\$ 3,500.00	\$ 8,400.00
Heat Detector	1	1		\$ 350.00	\$ 250.00	\$ 250.00
Pullstation	2			\$ 300.00	\$ -	\$ -
Signal Device	6		2	\$ 300.00	\$ 500.00	\$ 1,100.00
Duct Detector	0			\$ 350.00	\$ -	\$ -
Monitor/Control Module	0			\$ 300.00	\$ -	\$ -
Vesda	0			\$ -	\$ -	\$ -
Total Cost Estimate						\$ 34,750.00

## Building B14/B15 Family Visiting Units

1. Summary
  - a. Old style horn strobe
  - b. Heat detectors at end of life (EOL)
  - c. Smoke detectors at EOL
  - d. Fire Alarm Panel obsolete
  - e. Tamper switches disconnected due to sprinklers being on domestic water
2. Recommendations
  - a. Replace all old style horn strobe with new
  - b. Replace all remaining EOL heat detectors with new addressable detectors in un-sprinklered areas
  - c. Replace all expired or damaged smoke detectors with new addressable detectors in required areas
  - d. Ensure air circulation shut down upon alarm activation
  - e. Install new networked fire alarm panel for building and network to New Main Fire Alarm System Panel Installed in new electrical room of Building B4.
  - f. Repair disconnected tamper switches
3. Priority: Low

Table 13: Building B14 Estimated Cost Summary

B14						
Device	Existing Device Total	Devices Removed	New Device Total	Device Cost (ea.)	Labour	Device Cost Total
Panel	1		1	\$20,000.00	\$ -	\$ 20,000.00
Annunciator	0			\$ 5,000.00	\$ -	\$ -
Smoke Detector	7		7	\$ 350.00	\$ 1,750.00	\$ 4,200.00
Heat Detector	4		4	\$ 350.00	\$ 1,000.00	\$ 2,400.00
Pullstation	3		3	\$ 300.00	\$ 750.00	\$ 1,650.00
Signal Device	3		3	\$ 300.00	\$ 750.00	\$ 1,650.00
Duct Detector	0			\$ 350.00	\$ -	\$ -
Monitor/Control Module	4			\$ 300.00	\$ -	\$ -
Vesda	0			\$ -	\$ -	\$ -
Total Cost Estimate						\$ 29,900.00



Table 14: Building B15 Estimated Cost Summary

B15						
Device	Existing Device Total	Devices Removed	New Device Total	Device Cost (ea.)	Labour	Device Cost Total
Panel	1		1	\$20,000.00	\$ -	\$ 20,000.00
Annunciator	0			\$ 5,000.00	\$ -	\$ -
Smoke Detector	7		7	\$ 350.00	\$ 1,750.00	\$ 4,200.00
Heat Detector	4		4	\$ 350.00	\$ 1,000.00	\$ 2,400.00
Pullstation	3		3	\$ 300.00	\$ 750.00	\$ 1,650.00
Signal Device	3		3	\$ 300.00	\$ 750.00	\$ 1,650.00
Duct Detector	0			\$ 350.00	\$ -	\$ -
Monitor/Control Module	4			\$ 300.00	\$ -	\$ -
Vesda	0			\$ -	\$ -	\$ -
Total Cost Estimate						\$ 29,900.00

## Building C5- Dome

1. Summary
  - a. Old style alarm bells in area
  - b. Old style pull stations in area
  - c. Heat detectors at end of life (EOL) and redundant in sprinklered areas
  - d. Smoke detectors at EOL
  - e. No Fire Alarm Panel in Building
  - f. No duct smoke detection in Building
2. Recommendations
  - a. Replace all old style alarm bells in area with new horn strobes. Add additional horn strobes to area to meet NBC requirements
  - b. Replace all old style pull stations in area with new addressable pull stations. Consider keyed pullstations at building exits of inmate occupied areas
  - c. Remove all heat detectors from sprinklered areas and replace all remaining EOL heat detectors with new addressable detectors in un-sprinklered areas
  - d. Replace all expired or damaged smoke detectors with new addressable detectors in required areas.
  - e. Install new fire Alarm Panel for Building and network to New Main Panel in Building B4
  - f. Install new duct smoke detectors on supply air ducts. Ensure air circulation shut down upon alarm activation
3. Priority: Medium

Table 15: Building C5 Estimated Cost Summary

C5						
Device	Existing Device Total	Devices Removed	New Device Total	Device Cost (ea.)	Labour	Device Cost Total
Panel	0		1	\$20,000.00	\$ -	\$ 20,000.00
Annunciator	0		1	\$ 5,000.00	\$ -	\$ 5,000.00
Smoke Detector	1		1	\$ 350.00	\$ 250.00	\$ 600.00
Heat Detector	3	3		\$ 350.00	\$ 750.00	\$ 750.00
Pullstation	1	1	3	\$ 300.00	\$ 1,000.00	\$ 1,900.00
Signal Device	2	2	6	\$ 300.00	\$ 2,000.00	\$ 3,800.00
Duct Detector	0		2	\$ 350.00	\$ 500.00	\$ 1,200.00
Monitor/Control Module	14		2	\$ 300.00	\$ 500.00	\$ 1,100.00
Vesda	0			\$ -	\$ -	\$ -
Total Cost Estimate						\$ 34,350.00

## Building C6/C7- Programs Area/Hobby Shop/Dorm

### 1. Summary

- Old style alarm bells in area
- Old style pull stations in area
- Heat detectors at end of life (EOL) and redundant in sprinklered areas
- Smoke detectors at EOL

### 2. Recommendations

- Replace all old style alarm bells in area with new horn strobes. Add additional horn strobes to area to meet NBC requirements
- Replace all old style pull stations in area with new addressable pull stations. Consider keyed pullstations at building exits of inmate occupied areas
- Remove all heat detectors from sprinklered areas and replace all remaining EOL heat detectors with new addressable detectors in un-sprinklered areas
- Replace all expired or damaged smoke detectors with new addressable detectors in required areas.

### 3. Priority: Medium

Table 16: Building C6 Estimated Cost Summary

C6						
Device	Existing Device Total	Devices Removed	New Device Total	Device Cost (ea.)	Labour	Device Cost Total
Panel	0			\$20,000.00	\$ -	\$ -
Annunciator	0			\$ 5,000.00	\$ -	\$ -
Smoke Detector	21		21	\$ 350.00	\$ 5,250.00	\$ 12,600.00
Heat Detector	1	1		\$ 350.00	\$ 250.00	\$ 250.00
Pullstation	3	3	5	\$ 300.00	\$ 2,000.00	\$ 3,500.00
Signal Device	4	4	12	\$ 300.00	\$ 4,000.00	\$ 7,600.00
Duct Detector	0			\$ 350.00	\$ -	\$ -
Monitor/Control Module	1			\$ 300.00	\$ -	\$ -
Vesda	0			\$ -	\$ -	\$ -
Total Cost Estimate						\$ 23,950.00

Table 17: Building C7 Estimated Cost Summary

C7						
Device	Existing Device Total	Devices Removed	New Device Total	Device Cost (ea.)	Labour	Device Cost Total
Panel	0			\$20,000.00	\$ -	\$ -
Annunciator	0			\$ 5,000.00	\$ -	\$ -
Smoke Detector	9		9	\$ 350.00	\$ 2,250.00	\$ 5,400.00
Heat Detector	14	14		\$ 350.00	\$ 3,500.00	\$ 3,500.00
Pullstation	6	6	4	\$ 300.00	\$ 2,500.00	\$ 3,700.00
Signal Device	5	5	15	\$ 300.00	\$ 5,000.00	\$ 9,500.00
Duct Detector	0			\$ 350.00	\$ -	\$ -
Monitor/Control Module	2			\$ 300.00	\$ -	\$ -
Vesda	0			\$ -	\$ -	\$ -
Total Cost Estimate						\$ 22,100.00



## Building C1-Dome

### 1. Summary

- a. Old style alarm bells in area
- b. Old style pull stations in area
- c. Heat detectors at end of life (EOL) and redundant in sprinklered areas
- d. Smoke detectors at EOL
- e. No Fire Alarm Panel in Building
- f. Duct smoke detection on return air duct(s)
- g. Elevator shaft has no detector installed, smoke detector required

### 2. Recommendations

- a. Replace all old style alarm bells in area with new horn strobes. Add additional horn strobes in area to meet NBC requirements
- b. Replace all old style pull stations in area with new addressable pull stations. Consider keyed pullstations at building exits of inmate occupied areas
- c. Remove all heat detectors from sprinklered areas and replace all remaining EOL heat detectors with new addressable detectors in un-sprinklered areas
- d. Replace all expired or damaged smoke detectors with new addressable detectors in required areas.
- e. Install new fire Alarm Panel for Building and network to New Main Panel in Building B4
- f. Remove duct smoke detectors on return air ducts and install new duct smoke detectors on supply air ducts. Ensure air circulation shut down upon alarm activation
- g. Install smoke detection in elevator shaft and elevator machine room. Ensure elevator is equipped with automatic emergency recall

### 3. Priority: Medium

Table 10: Building C1 Estimated Cost Summary

C1						
Device	Existing Device Total	Devices Removed	New Device Total	Device Cost (ea.)	Labour	Device Cost Total
Panel	0		1	\$20,000.00	\$ -	\$ 20,000.00
Annunciator	0		1	\$ 5,000.00	\$ -	\$ 5,000.00
Smoke Detector	9		10	\$ 350.00	\$ 2,500.00	\$ 6,000.00
Heat Detector	15	15		\$ 350.00	\$ 3,750.00	\$ 3,750.00
Pullstation	3	3		\$ 300.00	\$ 750.00	\$ 750.00
Signal Device	2	2	6	\$ 300.00	\$ 2,000.00	\$ 3,800.00
Duct Detector	0		2	\$ 350.00	\$ 500.00	\$ 1,200.00
Monitor/Control Module	2		2	\$ 300.00	\$ 500.00	\$ 1,100.00
Vesda	0			\$ -	\$ -	\$ -
Total Cost Estimate						\$ 41,600.00

## Building C2 Carpentry/Tailor Shop

### 1. Summary

- Old style alarm bells in area
- Old style pull stations in area
- Heat detectors at end of life (EOL) and redundant in sprinklered areas
- Smoke detectors at EOL
- Duct smoke detection on return air duct(s) in lieu of supply ducts as required

### 2. Recommendations

- Replace all old style alarm bells in area with new horn strobes. Add additional horn strobes to area to meet NBC requirements
- Replace all old style pull stations in area with new addressable pull stations. Consider keyed pullstations at building exits of inmate occupied areas
- Remove all heat detectors from sprinklered areas and replace all remaining EOL heat detectors with new addressable detectors in un-sprinklered areas
- Replace all expired or damaged smoke detectors with new addressable detectors in required areas.
- Remove duct smoke detectors on return air ducts and install new duct smoke detectors on supply air ducts. Ensure air circulation shut down upon alarm activation

### 3. Priority: Medium

Table 19: Building C2 Estimated Cost Summary

C2						
Device	Existing Device Total	Devices Removed	New Device Total	Device Cost (ea.)	Labour	Device Cost Total
Panel	0			\$20,000.00	\$ -	\$ -
Annunciator	0			\$ 5,000.00	\$ -	\$ -
Smoke Detector	0			\$ 350.00	\$ -	\$ -
Heat Detector	31	31		\$ 350.00	\$ 7,750.00	\$ 7,750.00
Pullstation	1	1	3	\$ 300.00	\$ 1,000.00	\$ 1,900.00
Signal Device	3	3	9	\$ 300.00	\$ 3,000.00	\$ 5,700.00
Duct Detector	1	1	1	\$ 350.00	\$ 500.00	\$ 850.00
Monitor/Control Module	6		1	\$ 300.00	\$ 250.00	\$ 550.00
Vesda	0			\$ -	\$ -	\$ -
Total Cost Estimate						\$ 16,750.00



## Building C3 Electrical/Plumbing Shop/School

### 1. Summary

- a. Old style alarm bells in area
- b. Old style pull stations in area
- c. Heat detectors at end of life (EOL) and redundant in sprinklered areas
- d. Smoke detectors at EOL
- e. Duct smoke detection on return air duct(s) in lieu of supply ducts as required
- f. Network Annunciator panels for Unit 6/7 & Main Panel.

### 2. Recommendations

- a. Replace all old style alarm bells in area with new horn strobes. Add additional horn strobes to area to meet NBC requirements
- b. Replace all old style pull stations in area with new addressable pull stations. Consider keyed pullstations at building exits of inmate occupied areas
- c. Remove all heat detectors from sprinklered areas and replace all remaining EOL heat detectors with new addressable detectors in un-sprinklered areas
- d. Replace all expired or damaged smoke detectors with new addressable detectors in required areas.
- e. Remove duct smoke detectors on return air ducts and install new duct smoke detectors on supply air ducts. Ensure air circulation shut down upon alarm activation
- f. Install standalone computer based system providing real time annunciation and device history to maintenance personnel allowing for improved service and fault recording.

### 3. Priority: Medium

Table 20: Building C3 Estimated Cost Summary

C3						
Device	Existing Device Total	Devices Removed	New Device Total	Device Cost (ea.)	Labour	Device Cost Total
Panel	0			\$20,000.00	\$ -	\$ -
Annunciator	1			\$ 5,000.00	\$ -	\$ -
Smoke Detector	8		8	\$ 350.00	\$ 2,000.00	\$ 4,000.00
Heat Detector	19	19		\$ 350.00	\$ 4,750.00	\$ 4,750.00
Pullstation	4	4	6	\$ 300.00	\$ 2,500.00	\$ 4,300.00
Signal Device	5	5	15	\$ 300.00	\$ 5,000.00	\$ 9,300.00
Duct Detector	0		1	\$ 350.00	\$ 250.00	\$ 600.00
Monitor/Control Module	10		1	\$ 300.00	\$ 250.00	\$ 550.00
Vesda	0			\$ -	\$ -	\$ -
Total Cost Estimate						\$ 24,500.00

## Building C4 Metal/tech Shop/Programs Area

### 1. Summary

- Old style alarm bells in area
- Old style pull stations in area
- Heat detectors at end of life (EOL) and redundant in sprinklered areas
- Smoke detectors at EOL
- Duct smoke detection on return air duct(s) in lieu of supply ducts as required
- Explosion proof detection in oxy./acety. manifold room

### 2. Recommendations

- Replace all old style alarm bells in area with new horn strobes. Add additional horn strobes to area to meet NBC requirements
- Replace all old style pull stations in area with new addressable pull stations. Consider keyed pullstations at building exits of inmate occupied areas
- Remove all heat detectors from sprinklered areas and replace all remaining EOL heat detectors with new addressable detectors in un-sprinklered areas
- Replace all expired or damaged smoke detectors with new addressable detectors in required areas.
- Remove duct smoke detectors on return air ducts and install new duct smoke detectors on supply air ducts. Ensure air circulation shut down upon alarm activation
- Replace EOL explosion proof detection in oxy./acety. manifold room

### 3. Priority: Medium

Table 21: Building C4 Estimated Cost Summary

C4						
Device	Existing Device Total	Devices Removed	New Device Total	Device Cost (ea.)	Labour	Device Cost Total
Panel	0			\$20,000.00	\$ -	\$ -
Annunciator	0			\$ 5,000.00	\$ -	\$ -
System & Software	0		1	\$ 5,000.00	\$ -	\$ 5,000.00
Smoke Detector	8		0	\$ 350.00	\$ 2,000.00	\$ 4,800.00
Heat Detector	31	31		\$ 350.00	\$ 7,750.00	\$ 7,750.00
Pullstation	6	6	9	\$ 300.00	\$ 3,750.00	\$ 6,450.00
Signal Device	6	6	12	\$ 300.00	\$ 4,500.00	\$ 8,100.00
Duct Detector	1	1	1	\$ 350.00	\$ 500.00	\$ 850.00
Monitor/Control Module	2		2	\$ 300.00	\$ 500.00	\$ 1,100.00
Vcsda	0			\$ -	\$ -	\$ -
Total Cost Estimate						\$ 34,050.00

## Building C13/C14 Boiler Area

1. Summary
  - a. Old style alarm bells in area
  - b. Old style pull stations in area
  - c. Heat detectors at end of life (EOL) and redundant in sprinklered areas
  - d. Old Annunciator near room 962
  - e. Pre-Action system installed for generator area
2. Recommendations
  - a. Replace all old style alarm bells in area with new horn strobes. Add additional horn strobes to area to meet NBC requirements
  - b. Replace all old style pull stations in area with new addressable pull stations. Consider keyed pullstations at building exits of inmate occupied areas
  - c. Remove all heat detectors from sprinklered areas and replace all remaining EOL heat detectors with new addressable detectors in un-sprinklered areas
  - d. Remove Old Annunciator panel and install a new Annunciator panel for the building near main entrance
  - e. Network pre-action system to new main fire alarm panel
3. Priority: Medium

Table 22: Building C13/14 Estimated Cost Summary

C13/14						
Device	Existing Device Total	Devices Removed	New Device Total	Device Cost (ea.)	Labour	Device Cost Total
Panel	0			\$20,000.00	\$ -	\$ -
Annunciator	1	1		\$ 5,000.00	\$ -	\$ -
Smoke Detector	0			\$ 350.00	\$ -	\$ -
Heat Detector	13	13		\$ 350.00	\$ 3,250.00	\$ 3,250.00
Pullstation	1	1	2	\$ 300.00	\$ 750.00	\$ 1,350.00
Signal Device	1	1	4	\$ 300.00	\$ 1,250.00	\$ 2,450.00
Duct Detector	0			\$ 350.00	\$ -	\$ -
Monitor/Control Module	0			\$ 300.00	\$ -	\$ -
Vesda	0			\$ -	\$ -	\$ -
Total Cost Estimate						\$ 7,050.00



## Building C29 Laundry

1. Summary
  - a. Old style alarm bells in area
  - b. Old style pull stations in area
  - c. Heat detectors at end of life (EOL) and redundant in sprinklered areas
2. Recommendations
  - a. Replace all old style alarm bells in area with new horn strobes. Add additional horn strobes to area to meet NBC requirements
  - b. Replace all old style pull stations in area with new addressable pull stations. Consider keyed pullstations at building exits of inmate occupied areas
  - c. Remove all heat detectors from sprinklered areas and replace all remaining EOL heat detectors with new addressable detectors in un-sprinklered areas
3. Priority: Medium

Table 23: Building C29 Estimated Cost Summary

C29						
Device	Existing Device Total	Devices Removed	New Device Total	Device Cost (ea.)	Labour	Device Cost Total
Panel	0			\$20,000.00	\$ -	\$ -
Annunciator	0			\$ 5,000.00	\$ -	\$ -
Smoke Detector	0			\$ 350.00	\$ -	\$ -
Heat Detector	24	24		\$ 350.00	\$ 6,000.00	\$ 6,000.00
Pullstation	2	2	3	\$ 300.00	\$ 1,250.00	\$ 2,150.00
Signal Device	2	2	6	\$ 300.00	\$ 2,000.00	\$ 3,800.00
Duct Detector	0			\$ 350.00	\$ -	\$ -
Monitor/Control Module	2			\$ 300.00	\$ -	\$ -
Vesda	0			\$ -	\$ -	\$ -
Total Cost Estimate						\$ 11,950.00

## Building C30 SIS

1. Summary
  - a. Old style alarm bells in area
  - b. Old style pull stations in area
  - c. Heat detectors at end of life (EOL) and redundant in sprinklered areas
2. Recommendations
  - a. Replace all old style alarm bells in area with new horn strobes. Add additional horn strobes to area to meet NBC requirements
  - b. Replace all old style pull stations in area with new addressable pull stations. Consider keyed pullstations at building exits of inmate occupied areas
  - c. Remove all heat detectors from sprinklered areas and replace all remaining EOL heat detectors with new addressable detectors in un-sprinklered areas
3. Priority: Medium

Table 24: Building C30 Estimated Cost Summary

C30						
Device	Existing Device Total	Devices Removed	New Device Total	Device Cost (ea.)	Labour	Device Cost Total
Panel	0			\$20,000.00	\$ -	\$ -
Annunciator	0			\$ 5,000.00	\$ -	\$ -
Smoke Detector	0			\$ 350.00	\$ -	\$ -
Heat Detector	0			\$ 350.00	\$ -	\$ -
Pullstation	6	6	8	\$ 300.00	\$ 3,500.00	\$ 5,900.00
Signal Device	3	3	9	\$ 300.00	\$ 3,000.00	\$ 5,700.00
Duct Detector	0			\$ 350.00	\$ -	\$ -
Monitor/Control Module	5			\$ 300.00	\$ -	\$ -
Vesda	0			\$ -	\$ -	\$ -
Total Cost Estimate						\$ 11,600.00



## Building C22 Yard/CORCAN Shop

### 1. Summary

- a. Old style alarm bells in area
- b. Old style pull stations in area
- c. No fire detection in un-sprinklered areas
- d. No duct smoke detection
- e. No flow and tamper monitoring on main sprinkler tree
- f. No Fire alarm panel or Annunciator for building

### 2. Recommendations

- a. Replace all old style alarm bells in area with new horn strobes. Add additional horn strobes to area to meet NBC requirements
- b. Replace all old style pull stations in area with new addressable pull stations. Consider keyed pullstations at building exits of inmate occupied areas
- c. Install addressable fire detection in un-sprinklered areas
- d. Install new duct smoke detectors on supply air ducts. Ensure air circulation shut down upon alarm activation
- e. Install new flow and tamper monitoring for main sprinkler tree
- f. Install new fire alarm panel in Room 1046 High Voltage room and network to new main panel. Install new Annunciator panel near main entrance of building.

### 3. Priority: High

Table 25: Building C22 Estimated Cost Summary

C22						
Device	Existing Device Total	Devices Removed	New Device Total	Device Cost (ea.)	Labour	Device Cost Total
Panel	0		1	\$20,000.00	\$ -	\$ 20,000.00
Annunciator	0		1	\$ 5,000.00	\$ -	\$ 5,000.00
Smoke Detector	0			\$ 350.00	\$ -	\$ -
Heat Detector	0			\$ 350.00	\$ -	\$ -
Pullstation	6	6	9	\$ 300.00	\$ 1,750.00	\$ 6,450.00
Signal Device	5	5	15	\$ 300.00	\$ 5,000.00	\$ 9,500.00
Duct Detector	0		1	\$ 350.00	\$ 250.00	\$ 600.00
Monitor/Control Module	2		3	\$ 300.00	\$ 750.00	\$ 1,650.00
Vesda	0			\$ -	\$ -	\$ -
Total Cost Estimate						\$ 43,200.00

## Building C32 Cold Storage

1. Summary
  - a. No Fire alarm system currently installed
2. Recommendations
  - a. Install Fire alarm system in building
  - b. Use monitor module to monitor building alarm
  - c. All devices to be rated for below 0°C
3. Priority: High

Table 26: Building C32 Estimated Cost Summary

C32						
Device	Existing Device Total	Devices Removed	New Device Total	Device Cost (ea.)	Labour	Device Cost Total
Panel	0			\$20,000.00	\$ -	\$ -
Annunciator	0			\$ 5,000.00	\$ -	\$ -
Smoke Detector	0		8	\$ 350.00	\$ 2,000.00	\$ 4,800.00
Heat Detector	0			\$ 350.00	\$ -	\$ -
Pullstation	0		2	\$ 300.00	\$ 500.00	\$ 1,100.00
Signal Device	0		2	\$ 300.00	\$ 500.00	\$ 1,100.00
Duct Detector	0			\$ 350.00	\$ -	\$ -
Monitor/Control Module	0		1	\$ 300.00	\$ 250.00	\$ 550.00
Vesda	0			\$ -	\$ -	\$ -
Total Cost Estimate						\$ 7,550.00

## Building C24 Programs Area/Gallery

1. Summary
  - a. Ensure duct smoke detection on return air duct(s)
  - b. No main fire alarm panel for building, currently monitored from Unit 6 Main fire alarm panel
  - c. Fire separation doors on gallery level should be closed at all times or be provided with magnetic hold opens. (Qty. 2)
  - d. Building C26 monitored from this building
2. Recommendations
  - a. Install new duct smoke detectors on supply air ducts. Ensure air circulation shut down upon alarm activation
  - b. Install new main for alarm panel for building in main electrical room networked to Unit 6 Main Panel
  - c. Install magnetic hold opens for fire separation doors located on gallery level
  - d. Replace all expired and/or damaged fire detectors
3. Priority: Low

Table 27: Building C24 Estimated Cost Summary

C24						
Device	Existing Device Total	Devices Removed	New Device Total	Device Cost (ea.)	Labour	Device Cost Total
Panel	0		1	\$20,000.00	\$ -	\$ 20,000.00
Annunciator	0			\$ 5,000.00	\$ -	\$ -
Smoke Detector	0			\$ 350.00	\$ -	\$ -
Heat Detector	1		1	\$ 350.00	\$ 250.00	\$ 600.00
Pullstation	16			\$ 300.00	\$ -	\$ -
Signal Device	25			\$ 300.00	\$ -	\$ -
Duct Detector	0		1	\$ 350.00	\$ 250.00	\$ 600.00
Monitor/Control Module	6		2	\$ 300.00	\$ 500.00	\$ 1,100.00
Vesda	0			\$ -	\$ -	\$ -
Total Cost Estimate						\$ 22,300.00

## Building C34 Family Visiting Unit

1. Summary
  - a. Building inaccessible at time of visit
  - b. Monitored from Unit 6 Main Fire Alarm panel.
2. Recommendations
  - a. Replace all expired and/or damaged fire detectors
  - b. Install modern horn strobes and pullstations.
3. Priority: Low

Table 28: Building C34 Estimated Cost Summary

C34						
Device	Existing Device Total	Devices Removed	New Device Total	Device Cost (ea.)	Labour	Device Cost Total
Panel	0			\$20,000.00	\$ -	\$ -
Annunciator	0			\$ 5,000.00	\$ -	\$ -
Smoke Detector	1		1	\$ 350.00	\$ 250.00	\$ 600.00
Heat Detector	3		3	\$ 350.00	\$ 750.00	\$ 1,800.00
Pullstation	2		2	\$ 300.00	\$ 500.00	\$ 1,100.00
Signal Device	1		1	\$ 300.00	\$ 250.00	\$ 550.00
Duct Detector	0			\$ 350.00	\$ -	\$ -
Monitor/Control Module	4			\$ 300.00	\$ -	\$ -
Vesda	0			\$ -	\$ -	\$ -
Total Cost Estimate						\$ 4,050.00



## Unit 6

1. Summary
  - a. Old style alarm bells encased in protective shields in area
  - b. Network Annunciator monitoring Unit 6 and Unit 7 networked to electrical shop
  - c. Room 2038 File room requires smoke detector
  - d. Room 2033 Elec Room contains old Pyrotronics panel for door control
  - e. Duct smoke detection on return air duct(s) in lieu of supply ducts as required
  - f. No pull station at dome control
  - g. Dome control smoke detector requires relocation away from air duct.
  - h. Heat detector in electrical room above dome control should be smoke detector
  - i. Vesda smoke detection system for all cells sampling air from exhaust air vent
  - j. Basement tunnel unsprinklered
2. Recommendations
  - a. Remove old style alarm bells in protective shields, install modern horn strobes to meet NBC requirements
  - b. Network Unit 6 & 7 to new main fire alarm panel in building B4
  - c. Install smoke detection in Room 2038
  - d. Determine function of Pyrotronics panel door control replace if necessary
  - e. Remove duct smoke detectors on return air ducts and install new duct smoke detectors on supply air ducts. Ensure air circulation shut down upon alarm activation
  - f. Install station in dome control
  - g. Relocate dome control smoke detector away from dir duct
  - h. Replace heat detector in electrical room above dome control with smoke detector
  - i. Vesda smoke detection system requires regular maintenance to ensure proper operation. Consider rotating sample tubes to avoid dirt clogging them.
  - j. Install fire detection and horn strobes in basement tunnel
3. Priority: Low

Table 29: Unit 6 Estimated Cost Summary

Unit 6						
Device	Existing Device Total	Devices Removed	New Device Total	Device Cost (ea.)	Labour	Device Cost Total
Panel	1			\$20,000.00	\$ -	\$ -
Annunciator	0			\$ 5,000.00	\$ -	\$ -
Smoke Detector	34		3	\$ 350.00	\$ 750.00	\$ 1,800.00
Heat Detector	5	1		\$ 350.00	\$ 250.00	\$ 250.00
Pullstation	10			\$ 300.00	\$ -	\$ -
Signal Device	21	21	42	\$ 300.00	\$15,750.00	\$ 28,350.00
Duct Detector	21	21	21	\$ 350.00	\$10,500.00	\$ 17,850.00
Monitor/Control Module	55			\$ 300.00	\$ -	\$ -
Vesda	20			\$ -	\$ -	\$ -
Total Cost Estimate						\$ 48,250.00

## Unit 7

1. Summary
  - a. Building recently constructed, fire alarm system determined up to date
2. Recommendations
  - a. N/A
3. Priority: None

## Guard Towers D1/D4/D11/D10/D12/D9

1. Summary
  - a. Fire alarm system upgrade in 2010
  - b. Panel currently not networked
2. Recommendations
  - a. Network panel to new main for alarm panel in Building B4
3. Priority: Low

Table 30: Building D1 Estimated Cost Summary

D1						
Device	Existing Device Total	Devices Removed	New Device Total	Device Cost (ea.)	Labour	Device Cost Total
Panel	1			\$20,000.00	\$ -	\$ -
Annunciator	0			\$ 5,000.00	\$ -	\$ -
Smoke Detector	1			\$ 350.00	\$ -	\$ -
Heat Detector	0			\$ 350.00	\$ -	\$ -
Pullstation	1			\$ 300.00	\$ -	\$ -
Signal Device	1			\$ 300.00	\$ -	\$ -
Duct Detector	0			\$ 350.00	\$ -	\$ -
Monitor/Control Module	0			\$ 300.00	\$ -	\$ -
Vesda	0			\$ -	\$ -	\$ -
Total Cost Estimate						\$ -

Table 31: Building D4 Estimated Cost Summary

D4						
Device	Existing Device Total	Devices Removed	New Device Total	Device Cost (ea.)	Labour	Device Cost Total
Panel	1			\$20,000.00	\$ -	\$ -
Annunciator	0			\$ 5,000.00	\$ -	\$ -
Smoke Detector	1			\$ 350.00	\$ -	\$ -
Heat Detector	0			\$ 350.00	\$ -	\$ -
Pullstation	1			\$ 300.00	\$ -	\$ -
Signal Device	1			\$ 300.00	\$ -	\$ -
Duct Detector	0			\$ 350.00	\$ -	\$ -
Monitor/Control Module	0			\$ 300.00	\$ -	\$ -
Vesda	0			\$ -	\$ -	\$ -
Total Cost						\$ -

Table 32: Building D11 Estimated Cost Summary

D11						
Device	Existing Device Total	Devices Removed	New Device Total	Device Cost (ea.)	Labour	Device Cost Total
Panel	1			\$20,000.00	\$ -	\$ -
Annunciator	0			\$ 5,000.00	\$ -	\$ -
Smoke Detector	1			\$ 350.00	\$ -	\$ -
Heat Detector	0			\$ 350.00	\$ -	\$ -
Pullstation	1			\$ 300.00	\$ -	\$ -
Signal Device	1			\$ 300.00	\$ -	\$ -
Duct Detector	0			\$ 350.00	\$ -	\$ -
Monitor/Control Module	0			\$ 300.00	\$ -	\$ -
Vesda	0			\$ -	\$ -	\$ -
Total Cost Estimate						\$ -

Table 33: Building D10 Estimated Cost Summary

D10						
Device	Existing Device Total	Devices Removed	New Device Total	Device Cost (ea.)	Labour	Device Cost Total
Panel	1			\$20,000.00	\$ -	\$ -
Annunciator	0			\$ 5,000.00	\$ -	\$ -
Smoke Detector	1			\$ 350.00	\$ -	\$ -
Heat Detector	0			\$ 350.00	\$ -	\$ -
Pullstation	1			\$ 300.00	\$ -	\$ -
Signal Device	1			\$ 300.00	\$ -	\$ -
Duct Detector	0			\$ 350.00	\$ -	\$ -
Monitor/Control Module	0			\$ 300.00	\$ -	\$ -
Vesda	0			\$ -	\$ -	\$ -
Total Cost Estimate						\$ -

Table 34: Building D12 Estimated Cost Summary

D12						
Device	Existing Device Total	Devices Removed	New Device Total	Device Cost (ea.)	Labour	Device Cost Total
Panel	1			\$20,000.00	\$ -	\$ -
Annunciator	0			\$ 5,000.00	\$ -	\$ -
Smoke Detector	1			\$ 350.00	\$ -	\$ -
Heat Detector	0			\$ 350.00	\$ -	\$ -
Pullstation	1			\$ 300.00	\$ -	\$ -
Signal Device	1			\$ 300.00	\$ -	\$ -
Duct Detector	0			\$ 350.00	\$ -	\$ -
Monitor/Control Module	0			\$ 300.00	\$ -	\$ -
Vesda	0			\$ -	\$ -	\$ -
Total Cost Estimate						\$ -



Table 35: Building D9 Estimated Cost Summary

D9						
Device	Existing Device Total	Devices Removed	New Device Total	Device Cost (ea.)	Labour	Device Cost Total
Panel	1			\$20,000.00	\$ -	\$ -
Annunciator	0			\$ 5,000.00	\$ -	\$ -
Smoke Detector	1			\$ 350.00	\$ -	\$ -
Heat Detector	0			\$ 350.00	\$ -	\$ -
Pullstation	1			\$ 300.00	\$ -	\$ -
Signal Device	1			\$ 300.00	\$ -	\$ -
Duct Detector	0			\$ 350.00	\$ -	\$ -
Monitor/Control Module	0			\$ 300.00	\$ -	\$ -
Vesda	0			\$ -	\$ -	\$ -
Total Cost Estimate						\$ -

## Building A6 Pump House

1. Summary
  - a. New proposed Pump House to be constructed
2. Recommendations
  - a. All required detection and monitoring shown in construction plans
3. Priority: High

Table 36: Building A6 Estimated Cost Summary

A6						
Device	Existing Device Total	Devices Removed	New Device Total	Device Cost (ea.)	Labour	Device Cost Total
Panel	0			\$20,000.00	\$ -	\$ -
Annunciator	0			\$ 5,000.00	\$ -	\$ -
Smoke Detector	0			\$ 350.00	\$ -	\$ -
Heat Detector	0			\$ 350.00	\$ -	\$ -
Pullstation	0			\$ 300.00	\$ -	\$ -
Signal Device	0			\$ 300.00	\$ -	\$ -
Duct Detector	0			\$ 350.00	\$ -	\$ -
Monitor/Control Module	0			\$ 300.00	\$ -	\$ -
Vesda	0			\$ -	\$ -	\$ -
Total Cost Estimate:						\$ -

## Building C33 Stores

1. Summary
  - a. Pull station indicator lights throughout building
  - b. Fire detectors at EOI
  - c. Fire alarm Panel # AFP-200
2. Recommendations
  - a. Remove pull station indicator lights and exit flasher. Add additional horn strobes to area to meet NBC requirements
  - b. Replace all expired or damaged fire detectors with new addressable detectors in required areas.
  - c. Network panel to new main for alarm panel in Building B4
3. Priority: Low

Table 37: Building C33 Estimated Cost Summary

C33						
Device	Existing Device Total	Devices Removed	New Device Total	Device Cost (ea.)	Labour	Device Cost Total
Panel	1			\$20,000.00	\$ -	\$ -
Annunciator	0			\$ 5,000.00	\$ -	\$ -
Smoke Detector	42		42	\$ 350.00	\$10,500.00	\$ 25,200.00
Heat Detector	5		5	\$ 350.00	\$ 1,250.00	\$ 3,000.00
Pullstation	2	2		\$ 300.00	\$ 500.00	\$ 500.00
Signal Device	3		6	\$ 300.00	\$ 1,500.00	\$ 3,300.00
Duct Detector	0			\$ 350.00	\$ -	\$ -
Monitor/Control Module	0			\$ 300.00	\$ -	\$ -
Vesda	0			\$ -	\$ -	\$ -
Total Cost Estimate						\$ 32,000.00

## Building C31 Maintenance Shop

1. Summary
  - a. No fire alarm system currently installed. Building Classified F3 under 75 person occupancy.
2. Recommendations
  - a. As required by NBC 3-6.5.1(a), install fire alarm system and network to new main fire alarm panel in building B4.
3. Priority: High

Table 38: Building C31 Estimated Cost Summary

C31						
Device	Existing Device Total	Devices Removed	New Device Total	Device Cost (ca.)	Labour	Device Cost Total
Panel	0		1	\$20,000.00	\$ -	\$ 20,000.00
Annunciator	0			\$ 5,000.00	\$ -	\$ -
Smoke Detector	0		3	\$ 350.00	\$ 750.00	\$ 1,800.00
Heat Detector	0		8	\$ 350.00	\$ 2,000.00	\$ 4,800.00
Pullstation	0		4	\$ 300.00	\$ 1,000.00	\$ 2,200.00
Signal Device	0		4	\$ 300.00	\$ 1,000.00	\$ 2,200.00
Duct Detector	0			\$ 350.00	\$ -	\$ -
Monitor/Control Module	0		2	\$ 300.00	\$ 500.00	\$ 1,100.00
Vesda	0			\$ -	\$ -	\$ -
Total Cost Estimate						\$ 32,100.00



## Building A3 IT Office/Staff Lounge

### 1. Summary

- a. Main floor fire alarm system recently renovated
- b. No visible duct smoke detection
- c. Old style alarm bells in basement area
- d. EOL fire detectors in basement area

### 2. Recommendations

- a. Network panel to new main fire alarm panel in building B4.
- b. Install new duct smoke detector on supply air duct. Ensure air circulation shut down upon alarm activation
- c. Replace all old style alarm bells in area with new horn strobes. Add additional horn strobes to area to meet NBC requirements
- d. Replace all expired or damaged fire detectors with new addressable detectors in required areas.

### 3. Priority: Low

Table 39: Building A3 Estimated Cost Summary

A3						
Device	Existing Device Total	Devices Removed	New Device Total	Device Cost (ea.)	Labour	Device Cost Total
Panel	1			\$20,000.00	\$ -	\$ -
Annunciator	0			\$ 5,000.00	\$ -	\$ -
Smoke Detector	24		13	\$ 350.00	\$ 3,250.00	\$ 7,800.00
Heat Detector	0			\$ 350.00	\$ -	\$ -
Pullstation	5	2	3	\$ 300.00	\$ 1,250.00	\$ 2,150.00
Signal Device	11	2	6	\$ 300.00	\$ 2,000.00	\$ 3,800.00
Duct Detector	0		1	\$ 350.00	\$ 250.00	\$ 600.00
Monitor/Control Module	2		1	\$ 300.00	\$ 250.00	\$ 550.00
Vesda	0			\$ -	\$ -	\$ -
Total Cost Estimate						\$ 14,900.00

## Building A4 Admin Offices

### 1. Summary

- Old style alarm bells in area
- Old style pull stations in area c/w indicator lights
- Heat detectors at end of life (EOL) and redundant in sprinklered areas
- Smoke detectors at EOL
- Old Fire Alarm Panel in Building requires replacement
- Duct smoke detection on return air duct(s) in lieu of supply ducts as required
- Elevator shaft has heat detector installed, smoke detector required

### 2. Recommendations

- Replace all old style alarm bells in area with new horn strobes. Add additional horn strobes to area to meet NBC requirements
- Replace all old style pull stations in area with new addressable pull stations. Some pull stations may require relocation
- Replace all remaining EOL heat detectors with new addressable detectors in un-sprinklered areas
- Replace all expired or damaged smoke detectors with new addressable detectors in required areas.
- Install new Fire Alarm Panel for Building and network to New Main Panel in Building B4
- Remove duct smoke detectors on return air ducts and install new duct smoke detectors on supply air ducts. Ensure air circulation shut down upon alarm activation
- Install smoke detection in elevator shaft and elevator machine room. Ensure elevator is equipped with automatic emergency recall

### 3. Priority: Medium

Table 40: Building A4 Estimated Cost Summary

A4						
Device	Existing Device Total	Devices Removed	New Device Total	Device Cost (ea.)	Labour	Device Cost Total
Panel	1		1	\$20,000.00	\$ -	\$ 20,000.00
Annunciator	0			\$ 5,000.00	\$ -	\$ -
Smoke Detector	2		4	\$ 350.00	\$ 1,000.00	\$ 2,400.00
Heat Detector	15		15	\$ 350.00	\$ 3,750.00	\$ 9,000.00
Pullstation	3	3	5	\$ 300.00	\$ 2,000.00	\$ 3,500.00
Signal Device	8	8	16	\$ 300.00	\$ 6,000.00	\$ 10,800.00
Duct Detector	1		1	\$ 350.00	\$ 250.00	\$ 600.00
Monitor/Control Module	1		2	\$ 300.00	\$ 500.00	\$ 1,100.00
Vesda	0			\$ -	\$ -	\$ -
Total Cost Estimate						\$ 47,400.00

**Site Recommendations**

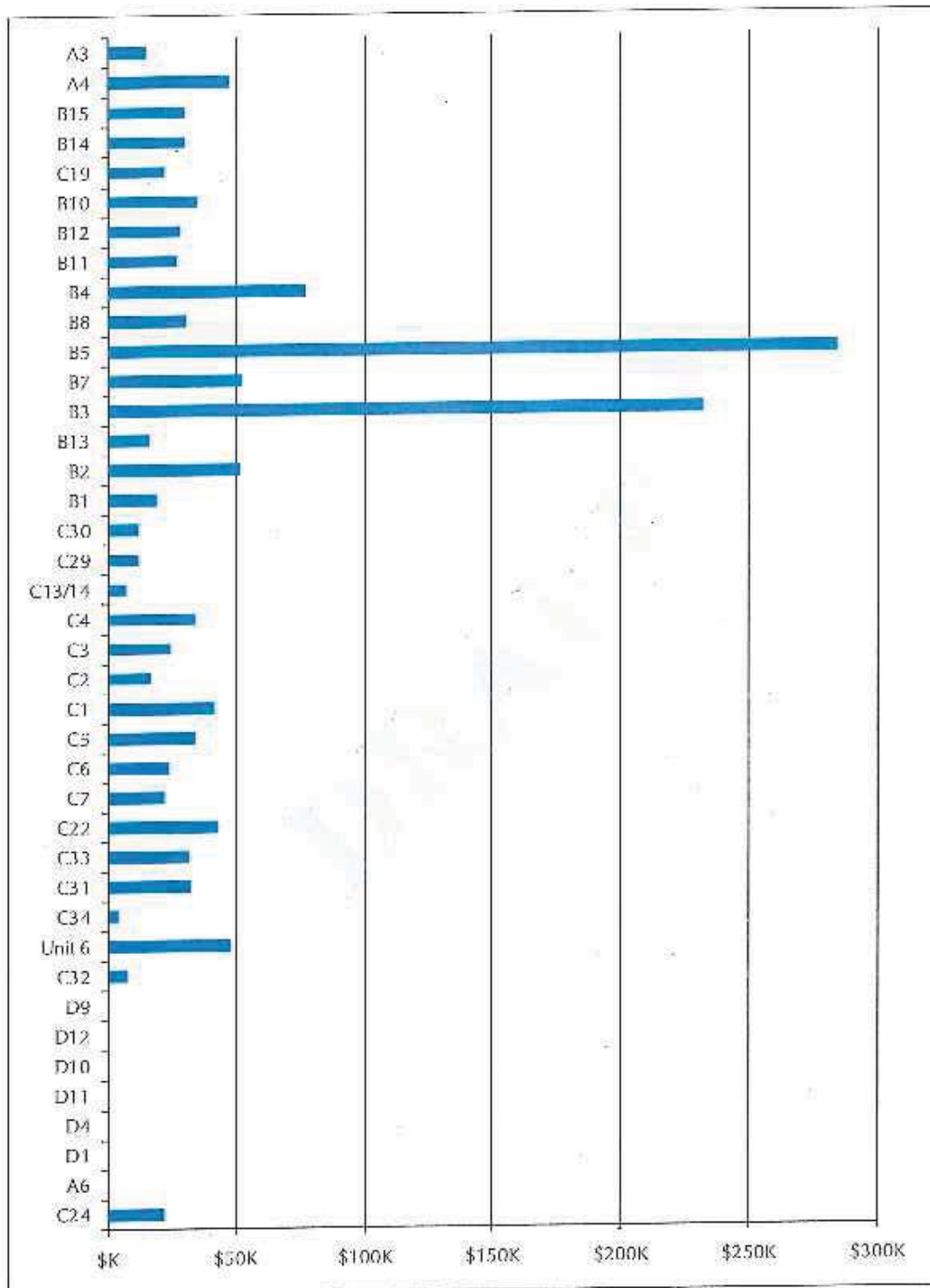
1. Complete Fire Alarm system testing annually as required by the Canadian National Fire Protection Agency.

## Total Fire Alarm System Estimated Cost Summary

Table 41: Total Fire Alarm System Estimated Cost Summary

	Building	Total Cost
1.	C24	\$ 22,300.00
2.	A6	\$ -
3.	D1	\$ -
4.	D4	\$ -
5.	D11	\$ -
6.	D10	\$ -
7.	D12	\$ -
11.	D9	\$ -
9.	C32	\$ 7,550.00
10.	Unit 6	\$ 48,250.00
11.	C34	\$ 4,050.00
12.	C31	\$ 32,100.00
13.	C33	\$ 32,000.00
14.	C72	\$ 43,700.00
15.	C7	\$ 22,100.00
16.	C6	\$ 23,950.00
17.	C5	\$ 34,350.00
18.	C1	\$ 41,600.00
19.	C7	\$ 16,750.00
20.	C1	\$ 24,500.00
21.	C4	\$ 34,050.00
22.	C13/14	\$ 7,050.00
23.	C29	\$ 11,950.00
24.	C30	\$ 11,600.00
25.	B1	\$ 19,100.00
26.	B2	\$ 51,400.00
27.	B13	\$ 16,150.00
28.	B3	\$ 231,971.00
29.	H7	\$ 52,075.00
30.	B5	\$ 284,021.00
31.	B8	\$ 30,700.00
32.	B4	\$ 77,100.00
33.	B11	\$ 26,950.00
34.	B12	\$ 27,850.00
35.	B10	\$ 34,750.00
36.	C19	\$ 22,000.00
37.	B14	\$ 29,900.00
38.	B15	\$ 29,900.00
39.	A4	\$ 47,400.00
40.	A3	\$ 14,900.00
	<b>Total Fire Alarm System Est. Cost</b>	<b>\$ 1,413,667.00</b>





Graph 1: PA Penitentiary Estimated Cost by Building

HA Penitentiary  
Fire Alarm System Report

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Building #	Section	Description	Sounder	Fire Alarm Panel	Location & Model	Fire Alarm Address/ID	Location	Sensor Del.	Qty	Heat Bulb	Qty	Pull Stations	Qty	Signal Devices	Qty	Not-Smoke Detectors	Qty	Musical/Control Modules	Qty	Vests	Qty	Notes
AT		Pump House	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	N/A		N/A	<input checked="" type="checkbox"/>	N/A	<input checked="" type="checkbox"/>	N/A	<input checked="" type="checkbox"/>	N/A	<input checked="" type="checkbox"/>	N/A	<input checked="" type="checkbox"/>	N/A	<input checked="" type="checkbox"/>	N/A	<input checked="" type="checkbox"/>	N/A	1 New Pump House's soon to be in construction complete with retrofitted fire alarm panel and all required detection devices being.
C24	Upper	Programs Area Entry	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	N/A		N/A	<input checked="" type="checkbox"/>	N/A	<input checked="" type="checkbox"/>	N/A	<input checked="" type="checkbox"/>	5	<input checked="" type="checkbox"/>	5	<input checked="" type="checkbox"/>	N/A	<input checked="" type="checkbox"/>	N/A	<input checked="" type="checkbox"/>	N/A	1. Provide new fire alarm panel for building located in electrical room. 2. Replace expired smoke/heat detectors. 3. The expansion draws should be tested at all times or be provided with an inbuilt check bulb. (Qty: 2) 4. Air handling & split air lines (in accessible rooms) of split.
	Main	Programs Area	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	N/A		D2525 & DM116	<input checked="" type="checkbox"/>	N/A	<input checked="" type="checkbox"/>	1	<input checked="" type="checkbox"/>	20	<input checked="" type="checkbox"/>	20	<input checked="" type="checkbox"/>	N/A	<input checked="" type="checkbox"/>	6	<input checked="" type="checkbox"/>	N/A	1. Provide smoke detection in electrical room. 2. Ensure direct smoke detection on supply air ducts and air return lines should be provided. 3. Annunciator in DM116 in accessible at time of visit. 4. New wiring to be installed & pulled straight throughout building. 5. Add 650 heat detector's in room with manual module for 1200 Rsp.
B1		No tower	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Level 1 HNF-320		Level 1 HNF-320	<input checked="" type="checkbox"/>	1	<input checked="" type="checkbox"/>	N/A	<input checked="" type="checkbox"/>	1	<input checked="" type="checkbox"/>	1	<input checked="" type="checkbox"/>	N/A	<input checked="" type="checkbox"/>	N/A	<input checked="" type="checkbox"/>	N/A	1. Tower Fire Alarm system has been upgraded in 2010. 2. Currently not networked as of yet.
B4		NW Tower	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Level 1 HNF-320		Level 1 HNF-320	<input checked="" type="checkbox"/>	1	<input checked="" type="checkbox"/>	N/A	<input checked="" type="checkbox"/>	1	<input checked="" type="checkbox"/>	1	<input checked="" type="checkbox"/>	N/A	<input checked="" type="checkbox"/>	N/A	<input checked="" type="checkbox"/>	N/A	1. Tower Fire Alarm system has been upgraded in 2010. 2. Currently not networked as of yet.
C21		NW Tower	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Level 1 HNF-320		Level 1 HNF-320	<input checked="" type="checkbox"/>	1	<input checked="" type="checkbox"/>	N/A	<input checked="" type="checkbox"/>	1	<input checked="" type="checkbox"/>	1	<input checked="" type="checkbox"/>	N/A	<input checked="" type="checkbox"/>	N/A	<input checked="" type="checkbox"/>	N/A	1. Tower Fire Alarm system has been upgraded in 2010. 2. Currently not networked as of yet.
D10		SW Tower	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Level 1 HNF-320		Level 1 HNF-320	<input checked="" type="checkbox"/>	1	<input checked="" type="checkbox"/>	N/A	<input checked="" type="checkbox"/>	1	<input checked="" type="checkbox"/>	1	<input checked="" type="checkbox"/>	N/A	<input checked="" type="checkbox"/>	N/A	<input checked="" type="checkbox"/>	N/A	1. Tower Fire Alarm system has been upgraded in 2010. 2. Currently not networked as of yet.
D12		SE Tower	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Level 1 HNF-320		Level 1 HNF-320	<input checked="" type="checkbox"/>	1	<input checked="" type="checkbox"/>	N/A	<input checked="" type="checkbox"/>	1	<input checked="" type="checkbox"/>	1	<input checked="" type="checkbox"/>	N/A	<input checked="" type="checkbox"/>	N/A	<input checked="" type="checkbox"/>	N/A	1. Tower Fire Alarm system has been upgraded in 2010. 2. Currently not networked as of yet.
D8		WC Tower	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Level 1 HNF-320		Level 1 HNF-320	<input checked="" type="checkbox"/>	1	<input checked="" type="checkbox"/>	N/A	<input checked="" type="checkbox"/>	1	<input checked="" type="checkbox"/>	1	<input checked="" type="checkbox"/>	N/A	<input checked="" type="checkbox"/>	N/A	<input checked="" type="checkbox"/>	N/A	1. Tower Fire Alarm system has been upgraded in 2010. 2. Currently not networked as of yet.
C12		Cold Storage	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	N/A		N/A	<input checked="" type="checkbox"/>	N/A	<input checked="" type="checkbox"/>	N/A	<input checked="" type="checkbox"/>	N/A	<input checked="" type="checkbox"/>	N/A	<input checked="" type="checkbox"/>	N/A	<input checked="" type="checkbox"/>	N/A	<input checked="" type="checkbox"/>	N/A	1. Fire Alarm system not required by KBC 5.2.4.1.12) 2. As required by KBC 5.2.4.1.12) a fire alarm system is required to be installed.

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Building #	Section	Description	System/Panel	Fire Alarm Panel	Location & Model	Fire Alarm Annunciator	Location	Smoke Det.	Qty	Heat Det.	Qty	Pull Station	Qty	Signal Boxes	Qty	Bus Strobe Detectors	Qty	Monitor/Control Modules	Qty	Visual	Qty	Notes
Unit 5		S.H.U.	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Main Guard Area ANN-3000	<input checked="" type="checkbox"/>	Main Control Console & Alarm Control Console	<input checked="" type="checkbox"/>	34		5	<input checked="" type="checkbox"/>	30	<input checked="" type="checkbox"/>	11	<input checked="" type="checkbox"/>	21	<input checked="" type="checkbox"/>	55	<input checked="" type="checkbox"/>	20	<ul style="list-style-type: none"> <li>1. Network Annunciator terminated for Unit 5 &amp; Unit 7 in Main Guard Area. Relays located in Unit 5 &amp; 7 Main Guard Area.</li> <li>2. Replace 2000 units with horn strobes. Add horn strobes as per code requirements.</li> <li>3. Needs smoke detectors for calls with breathing air &amp; going into mobile room. Smoke sampling tubes directly into room instead of adjacent duct.</li> <li>4. In Smoke Detectors in room 2048.</li> <li>5. All dual detectors in Mech room appear to be uncalibrated ducts. Remove and install as supply ducts.</li> <li>6. Smoke Det. required in room 2704 file storage.</li> <li>7. Add pull station in room control module.</li> <li>8. Replace horn strobes in room control module. (Duty)</li> <li>9. Remove horn strobes in room control module &amp; horn strobes.</li> </ul>
074		Inv Unit	<input type="checkbox"/>	<input type="checkbox"/>	N/A	<input type="checkbox"/>	N/A	<input checked="" type="checkbox"/>	1	<input checked="" type="checkbox"/>	3	<input checked="" type="checkbox"/>	2	<input checked="" type="checkbox"/>	1	<input type="checkbox"/>	N/A	<input checked="" type="checkbox"/>	4	<input type="checkbox"/>	N/A	<ul style="list-style-type: none"> <li>1. Building inaccessible at time of visit.</li> <li>2. Building maintained from Unit 6 Fire Alarm Panel.</li> </ul>
031		Maintenance Shop	<input type="checkbox"/>	<input type="checkbox"/>	N/A	<input type="checkbox"/>	N/A	<input type="checkbox"/>	N/A	<input type="checkbox"/>	N/A	<input type="checkbox"/>	N/A	<input type="checkbox"/>	N/A	<input type="checkbox"/>	N/A	<input type="checkbox"/>	N/A	<input type="checkbox"/>	N/A	<ul style="list-style-type: none"> <li>1. Currently no Fire Alarm system installed. Building classified F3 under 75 person occupancy limit required by NEC 3.2.4.1 (500).</li> <li>2. As required by NEC 3.2.4.1 (500) fire alarm system is required to be installed.</li> </ul>
031		Stores	<input type="checkbox"/>	<input checked="" type="checkbox"/>	By Main Entrance RFP-200	<input type="checkbox"/>	N/A	<input checked="" type="checkbox"/>	2	<input checked="" type="checkbox"/>	5	<input checked="" type="checkbox"/>	1	<input checked="" type="checkbox"/>	3	<input type="checkbox"/>	N/A	<input type="checkbox"/>	N/A	<input type="checkbox"/>	N/A	<ul style="list-style-type: none"> <li>1. Remove Pull Station Indicator Lights and Exit Light Fixtures.</li> <li>2. Newer style horn strobes &amp; pull stations throughout building.</li> </ul>
023	Lower	Wood Shop	<input checked="" type="checkbox"/>	<input type="checkbox"/>	N/A	<input type="checkbox"/>	N/A	<input type="checkbox"/>	N/A	<input type="checkbox"/>	N/A	<input checked="" type="checkbox"/>	6	<input checked="" type="checkbox"/>	7	<input type="checkbox"/>	N/A	<input checked="" type="checkbox"/>	2	<input type="checkbox"/>	N/A	<ul style="list-style-type: none"> <li>1. Add lower lamp switches.</li> <li>2. Horn strobes and pull stations required.</li> <li>3. New panel and annunciator for building recommended. Could be installed in the 1048 (High Voltage room) install Annunc. Color Change to entrance (1048).</li> </ul>
	Upper	Power Shop	<input checked="" type="checkbox"/>	<input type="checkbox"/>	N/A	<input type="checkbox"/>	N/A	<input type="checkbox"/>	N/A	<input type="checkbox"/>	N/A	<input checked="" type="checkbox"/>	2	<input checked="" type="checkbox"/>	3	<input type="checkbox"/>	N/A	<input type="checkbox"/>	N/A	<input type="checkbox"/>	N/A	<ul style="list-style-type: none"> <li>1. Horn strobes and pull stations required.</li> </ul>

PA Perpetual

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Building #	Section	Description	Spinkless	Fire Alarm Panel	Interbank Manual	Fire Alarm Annunciator	Location	Smoke Det.	Qty.	Heat Det.	Qty.	Pull Stations	Qty.	Signal Boxes	Qty.	Exit Smoke Entrance	Qty.	Monitor/Control Modules	Qty.	Vcode	Qcode	Notes
C1	Lower	Public Shop	<input checked="" type="checkbox"/>	<input type="checkbox"/>	N/A	<input type="checkbox"/>	N/A	<input type="checkbox"/>	N/A	<input checked="" type="checkbox"/>	14	<input checked="" type="checkbox"/>	4	<input checked="" type="checkbox"/>	1	<input type="checkbox"/>	N/A	<input checked="" type="checkbox"/>	1	<input type="checkbox"/>	N/A	1. Remove redundant heat detectors & wiring from sprinkled areas. 2. Replace existing heat detectors & pull stations with new. May require relocation. 3. More signal devices required in area.
	Upper	Room	<input checked="" type="checkbox"/>	<input type="checkbox"/>	N/A	<input type="checkbox"/>	N/A	<input type="checkbox"/>	9	<input type="checkbox"/>	N/A	<input checked="" type="checkbox"/>	2	<input checked="" type="checkbox"/>	2	<input type="checkbox"/>	N/A	<input type="checkbox"/>	N/A	<input type="checkbox"/>	N/A	1. Replace all expired and/or damaged smoke detectors. 2. Replace existing heat detectors & pull stations with new. May require relocation.
C2	Lower	Programs/Office Area	<input checked="" type="checkbox"/>	<input type="checkbox"/>	N/A	<input type="checkbox"/>	N/A	<input type="checkbox"/>	11	<input checked="" type="checkbox"/>	1	<input checked="" type="checkbox"/>	2	<input checked="" type="checkbox"/>	2	<input type="checkbox"/>	N/A	<input checked="" type="checkbox"/>	1	<input type="checkbox"/>	N/A	1. Replace existing heat detectors & pull stations with new. May require relocation. 2. More signal devices required in area. 3. Remove redundant heat detectors & wiring from sprinkled areas. 4. Replace all expired and/or damaged smoke detectors.
	Upper	Room	<input checked="" type="checkbox"/>	<input type="checkbox"/>	N/A	<input type="checkbox"/>	N/A	<input type="checkbox"/>	5	<input type="checkbox"/>	N/A	<input checked="" type="checkbox"/>	1	<input checked="" type="checkbox"/>	1	<input type="checkbox"/>	N/A	<input type="checkbox"/>	N/A	<input type="checkbox"/>	N/A	1. Replace existing heat detectors & pull stations with new. May require relocation. 2. More signal devices required in area.
C3	Basement	Electric Room/Storage	<input checked="" type="checkbox"/>	<input type="checkbox"/>	N/A	<input type="checkbox"/>	N/A	<input type="checkbox"/>	N/A	<input type="checkbox"/>	N/A	<input type="checkbox"/>	N/A	<input type="checkbox"/>	N/A	<input type="checkbox"/>	N/A	<input checked="" type="checkbox"/>	1	<input type="checkbox"/>	N/A	1. Area inaccessible at time of visit. 2. No detection required in this area.
	Lower	Room	<input checked="" type="checkbox"/>	<input type="checkbox"/>	N/A	<input type="checkbox"/>	N/A	<input type="checkbox"/>	N/A	<input type="checkbox"/>	N/A	<input checked="" type="checkbox"/>	1	<input checked="" type="checkbox"/>	1	<input type="checkbox"/>	N/A	<input checked="" type="checkbox"/>	4	<input type="checkbox"/>	N/A	1. Replace existing heat detectors & pull stations with new. May require relocation. 2. More signal devices required in area.
	Upper	Room	<input checked="" type="checkbox"/>	<input type="checkbox"/>	N/A	<input type="checkbox"/>	N/A	<input type="checkbox"/>	1	<input checked="" type="checkbox"/>	1	<input type="checkbox"/>	N/A	<input checked="" type="checkbox"/>	1	<input type="checkbox"/>	N/A	<input checked="" type="checkbox"/>	4	<input type="checkbox"/>	N/A	1. Replace existing heat detectors & pull stations with new. May require relocation. 2. Remove redundant heat detectors & wiring from sprinkled areas. 3. New panel and Annunciator for building recommended. 4. Replace all expired and/or damaged smoke detectors. 5. Detect smoke detection and shut down required in building (MTC 5.2 & 11.1.1a)



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Brigging #	Section	Description	Splitter/Relay	Fire Alarm Panel	Initiation Module	Fire Alarm Annunciator	Transformer	Smoke Det.	Qty.	Heat Det.	Qty.	Pull Station	Qty.	Signal Devices	Qty.	Photo Smoke Detectors	Qty.	Monitor/Control Modules	Qty.	Vacuum	Qty.	Notes	
C1	Basement	Tunnels	□	□	N/A	□	N/A	□	0	□	0	□	N/A	□	N/A	□	N/A	□	2	□	N/A	1. Area inoperable at time of visit.	
	Basement	Garage Area	□	□	N/A	□	N/A	□	N/A	□	1	□	1	□	1	□	N/A	□	N/A	□	N/A	1. Replace missing bulbs & pull stations with new. May require relocation. 2. More signal devices required in area. 3. Remove redundant heat detectors & wiring from combined areas.	
	Upper	Garage Area	□	□	N/A	□	N/A	□	N/A	□	4	□	1	□	1	□	N/A	□	N/A	□	N/A	1. Replace existing bulbs & pull stations with new. May require relocation. 2. More signal devices required in area. 3. Remove or replace all exposed and/or damaged areas due to fire required.	
C2	Lower	Police/Army Shop	□	□	N/A	□	N/A	□	N/A	□	20	□	N/A	□	3	□	N/A	□	8	□	N/A	1. Replace existing bulbs & pull stations with new. May require relocation. 2. More signal devices required in area. 3. More pull stations required in area. 4. Remove redundant heat detectors & wiring from split listed areas. 5. Add smoke detection and no-shutdown required in hallways (NFPA 7.2.4.1.2.1.1)	
	Upper	Truck Shop	□	□	N/A	□	N/A	□	N/A	□	11	□	1	□	N/A	□	1	□	N/A	□	N/A	1. Replace existing bulbs & pull stations with new. May require relocation. 2. More signal devices required in area. 3. More pull stations required in area. 4. Remove redundant heat detectors & wiring from combined areas. 5. Area Annunciator for building recommended. Annunciator by fire station.	

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Building #	Section	Description	Smoke Det.	Fire Alarm Panel	Location & Model	Fire Alarm Address	Location	Smoke Det.	Qty.	Heat Det.	Qty.	Pull Station	Qty.	Signal Device	Qty.	Zone	Device	Qty.	Monitor/Control Module	Qty.	Notes
C1	Lower	Mechanical/ Plumbing Shop	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	RM1121	<input checked="" type="checkbox"/>	RM1121	<input checked="" type="checkbox"/>	N/A	<input checked="" type="checkbox"/>	17	<input checked="" type="checkbox"/>	3	<input checked="" type="checkbox"/>	3	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	N/A	<input checked="" type="checkbox"/>	30	1. Replace existing bell & pull stations with new. May require relocation. 2. More signal devices required in area. 3. More pull stations required in area. 4. Remove redundant heat detectors & wiring from sprinklered areas.
	Upper	Admin	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	N/A	<input checked="" type="checkbox"/>	N/A	<input checked="" type="checkbox"/>	N/A	<input checked="" type="checkbox"/>	7	<input checked="" type="checkbox"/>	1	<input checked="" type="checkbox"/>	1	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	N/A	<input checked="" type="checkbox"/>	N/A	1. Replace existing bell & pull stations with new. May require relocation. 2. More signal devices required in area. 3. More pull stations required in area. 4. Remove redundant heat detectors & wiring from sprinklered areas.
	Attic		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	N/A	<input checked="" type="checkbox"/>	N/A	<input checked="" type="checkbox"/>	8	<input checked="" type="checkbox"/>	N/A	<input checked="" type="checkbox"/>	N/A	<input checked="" type="checkbox"/>	N/A	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	N/A	<input checked="" type="checkbox"/>	N/A	1. Area inaccessible at time of visit. 2. Replace all pulled and/or damaged smoke detectors.
C4	Lower	Mech/Tech Shop	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	N/A	<input checked="" type="checkbox"/>	N/A	<input checked="" type="checkbox"/>	N/A	<input checked="" type="checkbox"/>	28	<input checked="" type="checkbox"/>	1	<input checked="" type="checkbox"/>	3	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	N/A	<input checked="" type="checkbox"/>	N/A	1. Replace existing bell & pull stations with new. May require relocation. 2. More signal devices required in area. 3. More pull stations required in area. 4. Remove redundant heat detectors & wiring from sprinklered areas.
	Upper	Programs Area	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	N/A	<input checked="" type="checkbox"/>	N/A	<input checked="" type="checkbox"/>	N/A	<input checked="" type="checkbox"/>	3	<input checked="" type="checkbox"/>	4	<input checked="" type="checkbox"/>	3	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	N/A	<input checked="" type="checkbox"/>	2	1. Replace existing bell & pull stations with new. May require relocation. 2. All heat detectors on return air ducts. Remove and install on supply ducts. 3. More signal devices required in area. 4. More pull stations required in area. 5. Remove redundant heat detectors & wiring from sprinklered areas.
	Attic		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	N/A	<input checked="" type="checkbox"/>	N/A	<input checked="" type="checkbox"/>	8	<input checked="" type="checkbox"/>	N/A	<input checked="" type="checkbox"/>	N/A	<input checked="" type="checkbox"/>	N/A	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	N/A	<input checked="" type="checkbox"/>	N/A	1. Area inaccessible at time of visit. 2. Replace all pulled and/or damaged smoke detectors.
L15/24	N/A	Enter Area	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	N/A	<input checked="" type="checkbox"/>	Heat Room 957	<input checked="" type="checkbox"/>	N/A	<input checked="" type="checkbox"/>	15	<input checked="" type="checkbox"/>	1	<input checked="" type="checkbox"/>	1	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	N/A	<input checked="" type="checkbox"/>	N/A	1. Replace existing bell & pull stations with new. May require relocation. 2. More signal devices required in area. 3. More pull stations required in area. 4. Remove redundant heat detectors & wiring from sprinklered areas.

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Building	Section	Description	Sprinklered	Fire Alarm Panel	Facility & Model	Fire Alarm Annunciator	Location	Smoke Det.	Qty.	Heat Det.	Qty.	Pull Stations	Qty.	Sprinkler Detectors	Qty.	End Smoke Detectors	Qty.	Monitor Control Modules	Qty.	Access	Qty.	Notes
C29	Main	Laundry	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	N/A	<input checked="" type="checkbox"/>	N/A	<input checked="" type="checkbox"/>	N/A	<input checked="" type="checkbox"/>	16	<input checked="" type="checkbox"/>	1	<input checked="" type="checkbox"/>	1	<input checked="" type="checkbox"/>	N/A	<input checked="" type="checkbox"/>	2	<input checked="" type="checkbox"/>	N/A	1. Replace existing bells & pull stations with new. May require relocation. 2. More signal devices required in area. 3. More pull stations required in area. 4. Remove redundant heat detectors & wiring from sprinklered areas.
	Swash	entr.	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	N/A	<input checked="" type="checkbox"/>	N/A	<input checked="" type="checkbox"/>	N/A	<input checked="" type="checkbox"/>	8	<input checked="" type="checkbox"/>	1	<input checked="" type="checkbox"/>	1	<input checked="" type="checkbox"/>	N/A	<input checked="" type="checkbox"/>	N/A	<input checked="" type="checkbox"/>	N/A	1. Replace existing bells & pull stations with new. May require relocation. 2. Remove redundant heat detectors & wiring from sprinklered areas.
C30	Kitchen		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	N/A	<input checked="" type="checkbox"/>	N/A	<input checked="" type="checkbox"/>	N/A	<input checked="" type="checkbox"/>	N/A	<input checked="" type="checkbox"/>	5	<input checked="" type="checkbox"/>	3	<input checked="" type="checkbox"/>	N/A	<input checked="" type="checkbox"/>	3	<input checked="" type="checkbox"/>	N/A	1. Replace existing bells & pull stations with new. May require relocation. 2. More signal devices required in area.
	Basement	entr.	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	N/A	<input checked="" type="checkbox"/>	N/A	<input checked="" type="checkbox"/>	N/A	<input checked="" type="checkbox"/>	3	<input checked="" type="checkbox"/>	1	<input checked="" type="checkbox"/>	1	<input checked="" type="checkbox"/>	N/A	<input checked="" type="checkbox"/>	N/A	<input checked="" type="checkbox"/>	N/A	1. Replace existing bells & pull stations with new. May require relocation. 2. More signal devices required in area. 3. Remove redundant heat detectors & wiring from sprinklered areas.
41	Main	Central Corridor	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	N/A	<input checked="" type="checkbox"/>	N/A	<input checked="" type="checkbox"/>	N/A	<input checked="" type="checkbox"/>	3	<input checked="" type="checkbox"/>	N/A	<input checked="" type="checkbox"/>	N/A	<input checked="" type="checkbox"/>	N/A	<input checked="" type="checkbox"/>	N/A	<input checked="" type="checkbox"/>	N/A	1. Remove redundant heat detectors & wiring from sprinklered areas. 2. More signal devices required in area. 3. More pull stations required in area.
	2nd		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	N/A	<input checked="" type="checkbox"/>	N/A	<input checked="" type="checkbox"/>	N/A	<input checked="" type="checkbox"/>	1	<input checked="" type="checkbox"/>	N/A	<input checked="" type="checkbox"/>	N/A	<input checked="" type="checkbox"/>	N/A	<input checked="" type="checkbox"/>	N/A	<input checked="" type="checkbox"/>	N/A	1. Remove redundant heat detectors & wiring from sprinklered areas.
	3rd		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	N/A	<input checked="" type="checkbox"/>	N/A	<input checked="" type="checkbox"/>	N/A	<input checked="" type="checkbox"/>	1	<input checked="" type="checkbox"/>	N/A	<input checked="" type="checkbox"/>	N/A	<input checked="" type="checkbox"/>	N/A	<input checked="" type="checkbox"/>	N/A	<input checked="" type="checkbox"/>	N/A	1. Remove redundant heat detectors & wiring from sprinklered areas.
	4th		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	N/A	<input checked="" type="checkbox"/>	N/A	<input checked="" type="checkbox"/>	N/A	<input checked="" type="checkbox"/>	10	<input checked="" type="checkbox"/>	1	<input checked="" type="checkbox"/>	N/A	<input checked="" type="checkbox"/>	N/A	<input checked="" type="checkbox"/>	N/A	<input checked="" type="checkbox"/>	N/A	1. Ignored heat detectors counted as something to be removed. Consider heat detectors for large area.
	Attic	Mechanical Room	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	N/A	<input checked="" type="checkbox"/>	N/A	<input checked="" type="checkbox"/>	N/A	<input checked="" type="checkbox"/>	1	<input checked="" type="checkbox"/>	N/A	<input checked="" type="checkbox"/>	1	<input checked="" type="checkbox"/>	N/A	<input checked="" type="checkbox"/>	N/A	<input checked="" type="checkbox"/>	N/A	1. Remove redundant heat detectors & wiring from sprinklered areas. 2. More signal devices required in area.

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Building #	Section	Description	Smoke Detector	Fire Alarm Panel	Location Model	Fire Alarm Address	Location	Smoke Det.	Qty.	Panel Det.	Qty.	Full Stations	Qty.	Panel Detectors	Qty.	Quick Smoke Detectors	Qty.	Monitor/Control Modules	Qty.	Notes	Qty.	Notes
32	Basement		<input checked="" type="checkbox"/>	<input type="checkbox"/>	N/A		N/A	<input type="checkbox"/>	N/A	<input checked="" type="checkbox"/>	19	<input checked="" type="checkbox"/>	1	<input checked="" type="checkbox"/>	1	<input type="checkbox"/>	N/A	<input type="checkbox"/>	N/A	<input type="checkbox"/>	N/A	1. Replace existing bells & pull stations with new. May require relocation. 2. More signal devices required in area. 3. More pull stations required in area. 4. Remove redundant heat detectors & wiring from unoccupied areas.
	Main	Main Entry/Corridor	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Rm 239 NPS-3030		N/A	<input type="checkbox"/>	N/A	<input checked="" type="checkbox"/>	20	<input checked="" type="checkbox"/>	3	<input checked="" type="checkbox"/>	3	<input checked="" type="checkbox"/>	1	<input checked="" type="checkbox"/>	6	<input type="checkbox"/>	N/A	1. Replace existing bells & pull stations with new. May require relocation. 2. More signal devices required in area. 3. More pull stations required in area. 4. Remove redundant heat detectors & wiring from unoccupied areas. 5. Ensure duct smoke detection on supply air duct and eliminate the redundant stations.
	Upper	Records Office	<input checked="" type="checkbox"/>	<input type="checkbox"/>	N/A		N/A	<input checked="" type="checkbox"/>	4	<input checked="" type="checkbox"/>	25	<input checked="" type="checkbox"/>	4	<input checked="" type="checkbox"/>	3	<input type="checkbox"/>	N/A	<input type="checkbox"/>	N/A	<input type="checkbox"/>	N/A	1. Replace existing bells & pull stations with new. May require relocation. 2. More signal devices required in area. 3. Replace all exposed and/or damaged smoke detectors as required. 4. Remove redundant heat detectors & wiring from unoccupied areas.
B13	Lower	Administration & Dispatch	<input checked="" type="checkbox"/>	<input type="checkbox"/>	N/A		N/A	<input checked="" type="checkbox"/>	4	<input type="checkbox"/>	N/A	<input checked="" type="checkbox"/>	4	<input checked="" type="checkbox"/>	1	<input type="checkbox"/>	N/A	<input checked="" type="checkbox"/>	10	<input type="checkbox"/>	N/A	1. Replace existing bells & pull stations with new. May require relocation. 2. More signal devices required in area. 3. Replace all exposed and/or damaged smoke detectors as required. 4. Remove and eliminate detection on supply air duct and circulation throughout restrooms.
	Upper		<input checked="" type="checkbox"/>	<input type="checkbox"/>	N/A		N/A	<input checked="" type="checkbox"/>	1	<input type="checkbox"/>	N/A	<input checked="" type="checkbox"/>	2	<input checked="" type="checkbox"/>	1	<input type="checkbox"/>	N/A	<input type="checkbox"/>	N/A	<input type="checkbox"/>	N/A	1. Replace existing bells & pull stations with new. May require relocation. 2. More signal devices required in area. 3. Replace all exposed and/or damaged smoke detectors as required.
	Penitentiary		<input checked="" type="checkbox"/>	<input type="checkbox"/>	N/A		N/A	<input type="checkbox"/>	N/A	<input type="checkbox"/>	N/A	<input checked="" type="checkbox"/>	1	<input type="checkbox"/>	N/A	<input type="checkbox"/>	N/A	<input type="checkbox"/>	N/A	<input type="checkbox"/>	N/A	1. Replace existing bells & pull stations with new. May require relocation. 2. More signal devices required in area.



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Building #	Section	Description	Smoke Detector	Zone Alarm Panel	Location	Fire Alarm Annunciator	Location	Smoke Det.	Qty	Test Det.	Qty	Pull Station	Qty	Signal Receiver	Qty	Back Smoke Detector	Qty	Monitor/Control Module	Qty	Usable	Qty	Note
6A	Excom area		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	N/A	<input checked="" type="checkbox"/>	N/A	<input checked="" type="checkbox"/>	N/A	<input checked="" type="checkbox"/>	N/A	<input checked="" type="checkbox"/>	N/A	<input checked="" type="checkbox"/>	N/A	<input checked="" type="checkbox"/>	N/A	<input checked="" type="checkbox"/>	N/A	<input checked="" type="checkbox"/>	N/A	1. Area traversed within time of visit. 2. Signal devices required in area. 3. Pre detection required in escape routes areas.
	Ward	Cell Block Range A & B	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	N/A	<input checked="" type="checkbox"/>	N/A	<input checked="" type="checkbox"/>	52	<input checked="" type="checkbox"/>	N/A	<input checked="" type="checkbox"/>	N/A	<input checked="" type="checkbox"/>	5	<input checked="" type="checkbox"/>	N/A	<input checked="" type="checkbox"/>	15	<input checked="" type="checkbox"/>	N/A	1. More signal devices required in area. 2. Replace existing bulbs & pull stations with new. May require relocation. 3. Replace all expired and/or damaged smoke detectors as required.
	2nd	Cell Block Range A & B	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	N/A	<input checked="" type="checkbox"/>	N/A	<input checked="" type="checkbox"/>	62	<input checked="" type="checkbox"/>	N/A	<input checked="" type="checkbox"/>	N/A	<input checked="" type="checkbox"/>	N/A	<input checked="" type="checkbox"/>	N/A	<input checked="" type="checkbox"/>	4	<input checked="" type="checkbox"/>	N/A	1. More signal devices required in area. 2. Replace all expired and/or damaged smoke detectors as required. 3. Replace all expired and/or damaged smoke detectors as required.
	1st	Cell Block Range A & B	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	N/A	<input checked="" type="checkbox"/>	N/A	<input checked="" type="checkbox"/>	48	<input checked="" type="checkbox"/>	N/A	<input checked="" type="checkbox"/>	N/A	<input checked="" type="checkbox"/>	4	<input checked="" type="checkbox"/>	N/A	<input checked="" type="checkbox"/>	4	<input checked="" type="checkbox"/>	N/A	1. More signal devices required in area. 2. Replace existing bulbs & pull stations with new. May require relocation. 3. Replace all expired and/or damaged smoke detectors as required. 4. More pull stations required in area.
	4th	Cell Block Range A & B	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	N/A	<input checked="" type="checkbox"/>	N/A	<input checked="" type="checkbox"/>	62	<input checked="" type="checkbox"/>	N/A	<input checked="" type="checkbox"/>	N/A	<input checked="" type="checkbox"/>	N/A	<input checked="" type="checkbox"/>	N/A	<input checked="" type="checkbox"/>	4	<input checked="" type="checkbox"/>	N/A	1. More signal devices required in area. 2. Replace existing bulbs & pull stations with new. May require relocation. 3. Replace all expired and/or damaged smoke detectors as required. 4. More pull stations required in area.

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Building	Section	Description	Sprinklered	Fire Alarm Panel	Location Model	Fire Alarm Arm/Reset	Location	Smoke Det.	Qty	Port Det.	Qty	Pull Station	Qty	Signal Device	Qty	Blank Smoke Detector	Qty	Monitor/Control Module	Qty	Units	Qty	Note
27	Ground		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	N/A	<input checked="" type="checkbox"/>	N/A	<input checked="" type="checkbox"/>	N/A	<input checked="" type="checkbox"/>	N/A	<input checked="" type="checkbox"/>	N/A	<input checked="" type="checkbox"/>	N/A	<input checked="" type="checkbox"/>	N/A	<input checked="" type="checkbox"/>	1	<input checked="" type="checkbox"/>	N/A	1. Area inaccessible at time of visit. 2. Signal devices required in area. 3. Fire detection required in unsuitability areas.
	Main	Pressure	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	N/A	<input checked="" type="checkbox"/>	N/A	<input checked="" type="checkbox"/>	12	<input checked="" type="checkbox"/>	N/A	<input checked="" type="checkbox"/>	2	<input checked="" type="checkbox"/>	1	<input checked="" type="checkbox"/>	N/A	<input checked="" type="checkbox"/>	3	<input checked="" type="checkbox"/>	N/A	1. More signal devices required in area. 2. Replace existing signal devices & pull stations with new. May require relocation. 3. Replace all expired and/or damaged smoke detectors as required. 4. More pull stations required in area. 5. New Annunciation in building recommended.
	2nd		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	N/A	<input checked="" type="checkbox"/>	N/A	<input checked="" type="checkbox"/>	12	<input checked="" type="checkbox"/>	N/A	<input checked="" type="checkbox"/>	2	<input checked="" type="checkbox"/>	1	<input checked="" type="checkbox"/>	N/A	<input checked="" type="checkbox"/>	1	<input checked="" type="checkbox"/>	N/A	1. More signal devices required in area. 2. Replace existing signal devices & pull stations with new. May require relocation. 3. Replace all expired and/or damaged smoke detectors as required.
	3rd		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	N/A	<input checked="" type="checkbox"/>	N/A	<input checked="" type="checkbox"/>	11	<input checked="" type="checkbox"/>	N/A	<input checked="" type="checkbox"/>	2	<input checked="" type="checkbox"/>	1	<input checked="" type="checkbox"/>	N/A	<input checked="" type="checkbox"/>	2	<input checked="" type="checkbox"/>	N/A	1. More signal devices required in area. 2. Replace existing signal devices & pull stations with new. May require relocation. 3. Replace all expired and/or damaged smoke detectors as required.
	Penthouse		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	N/A	<input checked="" type="checkbox"/>	N/A	<input checked="" type="checkbox"/>	1	<input checked="" type="checkbox"/>	1	<input checked="" type="checkbox"/>	1	<input checked="" type="checkbox"/>	N/A	<input checked="" type="checkbox"/>	2	<input checked="" type="checkbox"/>	N/A	<input checked="" type="checkbox"/>	N/A	1. Area inaccessible at time of visit. 2. Signal devices required in area. 3. Replace existing signal devices & pull stations with new. May require relocation. 4. Replace all expired and/or damaged smoke detectors as required. 5. Ensure duct smoke detection is properly supplied and identification shutdown provided. 6. Remove duct smoke detection in ceiling structure.

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Building #	Section	Description	Sprinklers	Fire Alarm Panel	Location & Model	Fire Alarm Address	Location	Smoke Det.	Qty.	Heat Det.	Qty.	Full Stroke	Qty.	Reset Device	Qty.	Dust/Smoke Detection	Qty.	Monitor/Control Modules	Qty.	Vests	Qty.	Notes
B5	Roof		<input type="checkbox"/>	<input type="checkbox"/>	N/A		N/A	<input type="checkbox"/>	N/A	<input type="checkbox"/>	N/A	<input type="checkbox"/>	N/A	<input type="checkbox"/>	N/A	<input type="checkbox"/>	N/A	<input type="checkbox"/>	N/A	<input type="checkbox"/>	N/A	1 Area inaccessible at time of visit. 2 Signal devices required in area. 3 Fire detection required in unoccupied areas.
	Main	Call Block Range B&F	<input checked="" type="checkbox"/>	<input type="checkbox"/>	N/A		N/A	<input checked="" type="checkbox"/>	55	<input type="checkbox"/>	N/A	<input checked="" type="checkbox"/>	1	<input checked="" type="checkbox"/>	4	<input type="checkbox"/>	N/A	<input checked="" type="checkbox"/>	32	<input type="checkbox"/>	N/A	1 More signal devices required in area. 2 Replace existing bells & pull stations with new. May require relocation. 3 Replace all expired and/or damaged smoke detectors as required.
	2nd		<input checked="" type="checkbox"/>	<input type="checkbox"/>	N/A		N/A	<input checked="" type="checkbox"/>	70	<input type="checkbox"/>	N/A	<input type="checkbox"/>	N/A	<input type="checkbox"/>	N/A	<input type="checkbox"/>	N/A	<input checked="" type="checkbox"/>	4	<input type="checkbox"/>	N/A	1 More signal devices required in area. 2 Replace existing bells & pull stations with new. May require relocation. 3 Replace all expired and/or damaged smoke detectors as required.
	3rd		<input checked="" type="checkbox"/>	<input type="checkbox"/>	N/A		N/A	<input checked="" type="checkbox"/>	61	<input type="checkbox"/>	N/A	<input type="checkbox"/>	N/A	<input checked="" type="checkbox"/>	4	<input type="checkbox"/>	N/A	<input checked="" type="checkbox"/>	4	<input type="checkbox"/>	N/A	1 More signal devices required in area. 2 Replace existing bells & pull stations with new. May require relocation. 3 Replace all expired and/or damaged smoke detectors as required.
	4th		<input checked="" type="checkbox"/>	<input type="checkbox"/>	N/A		N/A	<input checked="" type="checkbox"/>	82	<input checked="" type="checkbox"/>	1	<input type="checkbox"/>	N/A	<input type="checkbox"/>	N/A	<input type="checkbox"/>	N/A	<input checked="" type="checkbox"/>	3	<input type="checkbox"/>	N/A	1 More signal devices required in area. 2 Replace existing bells & pull stations with new. May require relocation. 3 Replace all expired and/or damaged smoke detectors as required. 4 More pull stations required in area.

FA Perchellary  
Fire Alarm System Report

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August 74, 2011

Building #	Section	Description	Spoke/Hand	Fire Alarm Panel	Location & Model	Fire Alarm Annunciator	Local Code	Smoke Det.	Qty	Heat Det.	Qty	Pull Stations	Qty	Signal Devices	Qty	Quartz Smoke Detectors	Qty	Monitor/Control Module	Qty	Notes	Qty	Notes
58	Basement		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	N/A	<input checked="" type="checkbox"/>	N/A	<input checked="" type="checkbox"/>	N/A	<input checked="" type="checkbox"/>	5	<input checked="" type="checkbox"/>	1	<input checked="" type="checkbox"/>	1	<input checked="" type="checkbox"/>	N/A	<input checked="" type="checkbox"/>	N/A	<input checked="" type="checkbox"/>	N/A	1. Restore wiring to pull stations with new. May require relocation. 2. More signal devices required in area. 3. More pull stations required in area. 4. Replace all exposed and/or damaged fire detectors as required.
	Main		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	N/A	<input checked="" type="checkbox"/>	N/A	<input checked="" type="checkbox"/>	6	<input checked="" type="checkbox"/>	8	<input checked="" type="checkbox"/>	N/A	<input checked="" type="checkbox"/>	N/A	<input checked="" type="checkbox"/>	N/A	<input checked="" type="checkbox"/>	N/A	<input checked="" type="checkbox"/>	N/A	1. Replace existing bell & pull stations with new. May require relocation. 2. More signal devices required in area. 3. More pull stations required in area. 4. Remove redundant heat/smoke detectors & wiring from unoccupied areas.
	2nd		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	N/A	<input checked="" type="checkbox"/>	N/A	<input checked="" type="checkbox"/>	N/A	<input checked="" type="checkbox"/>	3	<input checked="" type="checkbox"/>	N/A	<input checked="" type="checkbox"/>	N/A	<input checked="" type="checkbox"/>	N/A	<input checked="" type="checkbox"/>	N/A	<input checked="" type="checkbox"/>	N/A	1. Remove redundant heat detectors & wiring from unoccupied areas.
	1st		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	N/A	<input checked="" type="checkbox"/>	N/A	<input checked="" type="checkbox"/>	1	<input checked="" type="checkbox"/>	10	<input checked="" type="checkbox"/>	1	<input checked="" type="checkbox"/>	1	<input checked="" type="checkbox"/>	N/A	<input checked="" type="checkbox"/>	N/A	<input checked="" type="checkbox"/>	N/A	1. Replace existing bell & pull stations with new. May require relocation. 2. More signal devices required in area. 3. More pull stations required in area. 4. Remove redundant heat/smoke detectors & wiring from unoccupied areas.
	4th		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	N/A	<input checked="" type="checkbox"/>	N/A	<input checked="" type="checkbox"/>	7	<input checked="" type="checkbox"/>	11	<input checked="" type="checkbox"/>	2	<input checked="" type="checkbox"/>	7	<input checked="" type="checkbox"/>	N/A	<input checked="" type="checkbox"/>	N/A	<input checked="" type="checkbox"/>	N/A	1. Replace existing bell & pull stations with new. May require relocation. 2. More signal devices required in area. 3. More pull stations required in area. 4. Remove redundant heat/smoke detectors & wiring from unoccupied areas. 5. There does smoke detection on supply vent and air circulation shutdown provided.



PA Penitentiary  
Fire Alarm System Report

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August 24, 2011

Building #	Section	Description	Sprinklered	Fire Alarm Panel	Location Model	Fire Alarm Annunciator	Location	Smoke Det.	Qty	Last Test	Qty	Pull Stations	Qty	Signal Devices	Qty	Direct Smoke Detectors	Qty	Monitor/Control Modules	Qty	Vestib.	Qty	Notes
01	Basement	Garage	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	N/A	<input checked="" type="checkbox"/>	N/A	<input checked="" type="checkbox"/>	2	<input checked="" type="checkbox"/>	N/A	<input checked="" type="checkbox"/>	N/A	<input checked="" type="checkbox"/>	N/A	<input checked="" type="checkbox"/>	N/A	<input checked="" type="checkbox"/>	1	<input checked="" type="checkbox"/>	N/A	1 Area inaccessible at time of visit. 2 Signal devices required in area. 3 Replace all expired and/or damaged smoke detectors as required.
	Main	Utility/WH	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	N/A	<input checked="" type="checkbox"/>	N/A	<input checked="" type="checkbox"/>	25	<input checked="" type="checkbox"/>	34	<input checked="" type="checkbox"/>	1	<input checked="" type="checkbox"/>	4	<input checked="" type="checkbox"/>	1	<input checked="" type="checkbox"/>	5	<input checked="" type="checkbox"/>	N/A	1 Replace existing bells & pull stations with new. May require relocation. 2 More signal devices required in area. 3 More signal devices required in area. 4 More pull stations required in area. 5 Remove redundant heat/smoke detectors & wiring from sprinklered areas. 6 Ensure that smoke detectors are supply air duct and pre-emption shutdown protected. 7 Replace all expired and/or damaged smoke detectors as required.
	2nd	Copier/Reception Room/Phone Cells	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	N/A	<input checked="" type="checkbox"/>	N/A	<input checked="" type="checkbox"/>	11	<input checked="" type="checkbox"/>	14	<input checked="" type="checkbox"/>	1	<input checked="" type="checkbox"/>	2	<input checked="" type="checkbox"/>	1	<input checked="" type="checkbox"/>	4	<input checked="" type="checkbox"/>	N/A	1 Replace existing bells & pull stations with new. May require relocation. 2 More signal devices required in area. 3 More pull stations required in area. 4 Remove redundant heat/smoke detectors & wiring from sprinklered areas. 5 Ensure that smoke detectors are supply air duct and pre-emption shutdown protected. 6 Replace all expired and/or damaged smoke detectors as required. 7 Ensure elevator shaft smoke detection and elevator return controls protected. 8 Provide smoke detection in corridor outside sleeping areas.

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Building	Section	Description	Spnr/Misc	Fire Alarm Panel	Location & Model	Fire Alarm Annunciator	Location	Smoke Det.	Qty	Heat Det.	Qty	Exit Station	Qty	Signal Boxes	Qty	Direct Smoke Detectors	Qty	Monitor/Control Modules	Qty	Voice	Qty	Notes
B11	Exam Rm.		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	N/A	<input checked="" type="checkbox"/>	N/A	<input checked="" type="checkbox"/>	N/A	<input checked="" type="checkbox"/>	7	<input checked="" type="checkbox"/>	1	<input checked="" type="checkbox"/>	N/A	<input checked="" type="checkbox"/>	2	<input checked="" type="checkbox"/>	3	<input checked="" type="checkbox"/>	N/A	1 Area inaccessible at time of visit. 2 More signal devices required in area. 3 More pull stations required in area. 4 Replace existing bells & pull stations with new. May require relocation. 5 Ensure direct smoke detection on supply air ducts and/or installation shutdown provided. 6 Remove redundant heat/smoke detectors & wiring from unoccupied areas.
	Main Kitchen/Dining		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	N/A	<input checked="" type="checkbox"/>	N/A	<input checked="" type="checkbox"/>	N/A	<input checked="" type="checkbox"/>	17	<input checked="" type="checkbox"/>	4	<input checked="" type="checkbox"/>	8	<input checked="" type="checkbox"/>	N/A	<input checked="" type="checkbox"/>	17	<input checked="" type="checkbox"/>	N/A	1 Remove redundant heat detectors & wiring from unoccupied areas. 2 More signal devices required in area.
	Gen. Equip.		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	N/A	<input checked="" type="checkbox"/>	N/A	<input checked="" type="checkbox"/>	N/A	<input checked="" type="checkbox"/>	1	<input checked="" type="checkbox"/>	1	<input checked="" type="checkbox"/>	N/A	<input checked="" type="checkbox"/>	N/A	<input checked="" type="checkbox"/>	N/A	<input checked="" type="checkbox"/>	N/A	1 Remove redundant heat detectors & wiring from unoccupied areas. 2 More signal devices required in area.
B12	Class. Space		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	N/A	<input checked="" type="checkbox"/>	Location 2	<input checked="" type="checkbox"/>	N/A	<input checked="" type="checkbox"/>	12	<input checked="" type="checkbox"/>	1	<input checked="" type="checkbox"/>	N/A	<input checked="" type="checkbox"/>	N/A	<input checked="" type="checkbox"/>	N/A	<input checked="" type="checkbox"/>	N/A	1 Area inaccessible at time of visit. 2 More signal devices required in area.
	Main Hospital		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	N/A	<input checked="" type="checkbox"/>	N/A	<input checked="" type="checkbox"/>	N/A	<input checked="" type="checkbox"/>	8	<input checked="" type="checkbox"/>	2	<input checked="" type="checkbox"/>	3	<input checked="" type="checkbox"/>	1	<input checked="" type="checkbox"/>	N/A	<input checked="" type="checkbox"/>	N/A	1 Positive smoke detection in all sleeping areas. 2 Smoke detectors installed as direct smoke detectors to be removed. 3 Positive smoke detection in corridor/nurse sleeping areas. 4 More signal devices required in area. 5 More pull stations required in area. 6 Replace existing bells & pull stations with new. May require relocation. 7 Remove redundant heat detectors & wiring from unoccupied areas.

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Fire Alarm System Report

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Building #	Section	Description	Sprinklered	Fire Alarm Panel	Location & Model	Fire Alarm Annunciator	Location	Smoke Det.	Qty	Heat Det.	Qty	Full Station	Qty	Signal Devices	Qty	End Smoke Detectors	Qty	Manual/Control Modules	Qty	Verbs	Qty	Notes
B10	Basement		<input checked="" type="checkbox"/>	<input type="checkbox"/>	N/A	<input type="checkbox"/>	N/A	<input type="checkbox"/>	5	<input checked="" type="checkbox"/>	1	<input type="checkbox"/>	N/A	<input type="checkbox"/>	1	<input type="checkbox"/>	N/A	<input type="checkbox"/>	N/A	<input type="checkbox"/>	N/A	1. Replace all overhead and damaged signal devices as required. 2. Remove redundant heat & smoke detectors & wiring from sprinklered areas.
	Main	Control Center	<input checked="" type="checkbox"/>	<input type="checkbox"/>	N/A	<input type="checkbox"/>	N/A	<input type="checkbox"/>	9	<input type="checkbox"/>	N/A	<input checked="" type="checkbox"/>	2	<input type="checkbox"/>	3	<input type="checkbox"/>	N/A	<input type="checkbox"/>	N/A	<input type="checkbox"/>	N/A	1. More signal devices required in area. 2. Replace all overhead and damaged smoke detectors as required. 3. Remove redundant heat & smoke detectors & wiring from sprinklered areas. 4. Remove redundant heat & smoke detectors & wiring from sprinklered areas.
C10	Basement		<input checked="" type="checkbox"/>	<input type="checkbox"/>	N/A	<input type="checkbox"/>	N/A	<input type="checkbox"/>	N/A	<input checked="" type="checkbox"/>	5	<input type="checkbox"/>	1	<input type="checkbox"/>	1	<input type="checkbox"/>	N/A	<input type="checkbox"/>	N/A	<input type="checkbox"/>	N/A	1. More signal devices required in area. 2. Remove redundant heat detectors & wiring from sprinklered areas. 3. Replace existing bells & pull stations with new. May require relocation.
	Main		<input checked="" type="checkbox"/>	<input type="checkbox"/>	N/A	<input type="checkbox"/>	N/A	<input type="checkbox"/>	N/A	<input checked="" type="checkbox"/>	30	<input type="checkbox"/>	1	<input type="checkbox"/>	2	<input type="checkbox"/>	N/A	<input type="checkbox"/>	N/A	<input type="checkbox"/>	N/A	1. More signal devices required in area. 2. More pull stations required in area. 3. Replace existing bells & pull stations with new. May require relocation. 4. Remove redundant heat detectors & wiring from sprinklered areas.
	2nd		<input checked="" type="checkbox"/>	<input type="checkbox"/>	N/A	<input type="checkbox"/>	N/A	<input type="checkbox"/>	N/A	<input checked="" type="checkbox"/>	1	<input type="checkbox"/>	N/A	<input type="checkbox"/>	N/A	<input type="checkbox"/>	N/A	<input type="checkbox"/>	N/A	<input type="checkbox"/>	N/A	1. More signal devices required in area. 2. More pull stations required in area. 3. Remove redundant heat detectors & wiring from sprinklered areas.

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Building #	Section	Description	Smoke Detector	Fire Alarm Panel	Fire Alarm Model	Fire Alarm Annunciator	Location	Smoke Det.	Qty	Heat Det.	Qty	Full Station	Qty	Signal Devices	Qty	Door Smoke Detectors	Qty	Monitor/Control Modules	Qty	Volume	Qty	Notes
B14	Ground Floor		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	N/A		N/A	<input checked="" type="checkbox"/>	N/A	<input checked="" type="checkbox"/>	2		N/A	<input checked="" type="checkbox"/>	N/A	<input checked="" type="checkbox"/>	N/A	<input checked="" type="checkbox"/>	2		N/A	1. Replace all expired and/or damaged fire detectors as required.
	Mezz.	Family Waiting Units A & B	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Fire Alarm Rm		N/A	<input checked="" type="checkbox"/>	7		N/A	<input checked="" type="checkbox"/>	3	<input checked="" type="checkbox"/>	3		N/A	<input checked="" type="checkbox"/>	3		N/A	1. Tamper & Flow disconnected due to partial sprinklers being on domestic water. 2. Replace all expired and/or damaged fire detectors as required. 3. Fire Alarm Panel update.
	Attic		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	N/A		N/A	<input checked="" type="checkbox"/>	2		N/A	<input checked="" type="checkbox"/>	N/A	<input checked="" type="checkbox"/>	N/A	<input checked="" type="checkbox"/>	N/A	<input checked="" type="checkbox"/>	N/A		N/A	1. Replace all expired and/or damaged fire detectors as required.
B15	Ground Floor		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	N/A		N/A	<input checked="" type="checkbox"/>	2		N/A	<input checked="" type="checkbox"/>	N/A	<input checked="" type="checkbox"/>	N/A	<input checked="" type="checkbox"/>	N/A	<input checked="" type="checkbox"/>	2		N/A	1. Replace all expired and/or damaged fire detectors as required.
	Mezz.	Family Waiting Units A & B	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Fire Alarm Rm		N/A	<input checked="" type="checkbox"/>	7		N/A	<input checked="" type="checkbox"/>	3	<input checked="" type="checkbox"/>	3		N/A	<input checked="" type="checkbox"/>	7		N/A	1. Tamper & Flow disconnected due to partial sprinklers being on domestic water. 2. Replace all expired and/or damaged fire detectors as required. 3. Fire Alarm Panel update.
	Attic		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	N/A		N/A	<input checked="" type="checkbox"/>	1		N/A	<input checked="" type="checkbox"/>	N/A	<input checked="" type="checkbox"/>	N/A	<input checked="" type="checkbox"/>	N/A	<input checked="" type="checkbox"/>	N/A		N/A	1. Replace all expired and/or damaged fire detectors as required.



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Building #	Section	Description	Spk/Strm/Rel	Fire Alarm Panel	Location & Model	Fire Alarm Annunciation	Location	Smoke Det.	Qty	Heat Det.	Qty	Pull Stations	Qty	Signal Devices	Qty	Bus Smoke Detectors	Qty	Monitor/Control Module	Qty	Notes
A4	Reception	Offices	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	N/A	<input checked="" type="checkbox"/>	N/A	<input checked="" type="checkbox"/>	N/A	<input checked="" type="checkbox"/>	9	<input checked="" type="checkbox"/>	N/A	<input checked="" type="checkbox"/>	2	<input checked="" type="checkbox"/>	1	<input checked="" type="checkbox"/>	N/A	1. BUDS replaced in 2010 2. Replace all expired and/or damaged fire detectors as required. 3. Replace existing pull & pull stations with new Mayrquis detection. 4. Move signal devices required in area. 5. Move fire detection required in area.
	Main	Admin. Office	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Main Entrance	<input checked="" type="checkbox"/>	N/A	<input checked="" type="checkbox"/>	2	<input checked="" type="checkbox"/>	6	<input checked="" type="checkbox"/>	3	<input checked="" type="checkbox"/>	6	<input checked="" type="checkbox"/>	N/A	<input checked="" type="checkbox"/>	1	1. Remove old detectors 2. Ensure that smoke detection on supply stream and air circulation shutdown provided. 3. Ensure alarm shall smoke detection and evacuation alarm provided. 4. Alarm signal sent back to Main Fire Alarm Panel with manual reset. 5. Replace all expired and/or damaged fire detectors as required. 6. Replace existing pull & pull stations with new Mayrquis detection. 7. Move signal devices required in area. 8. Remove Main Fire Alarm Panel.
A3	Reception	Staff Lounge	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	N/A	<input checked="" type="checkbox"/>	N/A	<input checked="" type="checkbox"/>	23	<input checked="" type="checkbox"/>	N/A	<input checked="" type="checkbox"/>	2	<input checked="" type="checkbox"/>	2	<input checked="" type="checkbox"/>	N/A	<input checked="" type="checkbox"/>	1	1. Ensure that smoke detection on supply stream and air circulation shutdown provided.
	Main	IT Office	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	South East Hall RPS2-540	<input checked="" type="checkbox"/>	N/A	<input checked="" type="checkbox"/>	11	<input checked="" type="checkbox"/>	N/A	<input checked="" type="checkbox"/>	3	<input checked="" type="checkbox"/>	9	<input checked="" type="checkbox"/>	N/A	<input checked="" type="checkbox"/>	1	1. Maintain ready room. 2. Ensure that smoke detection on supply stream and air circulation shutdown provided. 3. Ensure that smoke detection on supply stream and air circulation shutdown provided.