

BLOCK 852 LOT 4 ADDRESS (SITE) 1759 State Highway 88 East PERMIT NO. 03-4439

Township
of Brick



CONSTRUCTION PERMIT
APPLICATION *02602*

Applicant Completes: Sections I, II, III (optional), IV, VI, and VII

I. IDENTIFICATION

1. Proposed Work Site at: 1759 State Highway 88 East
2. Name of Owner in Fee: Pharos Contracting Tel. ()
- Address 1759 State Highway 88 East, PO Box 1802, Point Pleasant Beach, NJ 08742
3. Ownership in Fee: Public Private
4. Principal Contractor: Complete Security Systems, Inc. Tel. (732) 780-6787
- Address 16 NORTH MAIN STREET, MARLBORO, NJ 07746
- License No. OR, If new home, Builder Reg. No. Exp. Date
- Federal Emp. No. 222684897 Social Security No.
5. Architect or Engineer Tel. ()
- Address
6. Responsible Person in Charge of Work Chris Mosley Tel. (732) 780-6787

II. PROPOSED WORK

1. ☐ Minor work (single trade)
2. ☐ Small Job (\$5,000 and no prior approvals)
3. ☐ New Building
4. ☐ Addition
5. ☐ Alteration
6. ☒ Fire Protection
7. ☐ Plumbing
8. ☒ Electrical
9. ☐ Elevator Devices
10. ☐ Asbestos Abatement
11. ☐ Demolition
- TOTAL COSTS

Est. Cost

\$3,000.00

\$6,000.00

\$9,000.00

FIRE SYSTEM

OPTIONAL (for office use only)

Plans Rec'd By	Date Rec'd	Rejection Date	Approval Date	Re-viewer	Resubmission Dates Approval	Rejection	Re-viewer
<i>9/13</i>	<i>9-29-03</i>						
			<i>5-29-03</i>	<i>ML</i>			
			<i>10/03</i>	<i>ML</i>			

III. DO YOU WANT: (optional) 1. ☐ Partial Releases 2. ☐ Prototype Processing

IV. DOES OR WILL YOUR BUILDING CONTAIN ANY OF THE FOLLOWING?

1. ☐ Elevators/Escalators/Lifts/Dumbwaiters/Moving Walks
2. ☐ High Pressure Boilers
3. ☐ Pressure Vessels
4. ☐ Refrigeration Systems
5. ☐ Cross-Connections/Backflow Preventers
6. ☐ Hazardous Uses/Places of Assembly
7. ☐ Sprinklers
8. ☐ Smoke Control Systems in Open Walls
9. ☐ Underground Storage Tanks

V. FEE SUMMARY (for office use only)

		Update	Update
1. Building	\$ <u>44</u>		
2. Electrical			
3. Plumbing			
4. Fire Protection	<u>45</u>		
5. Elevator Devices			
6. Subtotal	\$ <u> </u>		
7. Less 20% for State Plan Review			
8. Subtotal	\$ <u> </u>		
9. DCA Training Fee	<u>12</u>		
10. Subtotal	\$ <u> </u>		
11. Cert. of Occupancy			
12. Other			
13. TOTAL	\$ <u>101</u>		

VI. BUILDING/SITE CHARACTERISTICS

1. Number of Stories
2. Height of Structure ft.
3. Area--Largest Floor sq. ft.
4. New Building Area sq. ft.
5. Volume of New Structure cu. ft.
6. Construction Classification
7. Total Land Area Disturbed sq. ft.
8. Flood Hazard Zone
9. Base Flood Elevation ft.
10. Wetlands yes sq. ft.
no
11. Max. Live Load
12. Max. Occupancy Load

VII. DESCRIPTION OF BUILDING USE

A. RESIDENTIAL

1. ☐ Hotels (R-1)
2. ☐ Multi-Family (R-2)
3. ☐ Two-Family (R-3) BOCA
4. ☐ Two-Family (R-4) CABO
5. ☐ One-Family (R-3) BOCA
6. ☐ One-Family (R-4) CABO

No. of dwelling units:

Before Construction

After Construction

Net gain or loss

A. NON-RESIDENTIAL

1. State Specific Use:

2. Use Group:

3. Change in Use Group, Indicate Former:

LDS BR 10200486

CERTIFICATION IN LIEU OF OATH

I. OWNER SECTION (to be completed if the applicant is the owner in fee)

I hereby certify that I am the owner in fee of the property listed on Page 1.

Mark the following applicable boxes:

- A. ☐ I further certify that a new home (private residence will be constructed on this property for my own use and occupancy. This dwelling is to be occupied by myself and is not to be used for any purpose other than single family residential use. I attest that all construction, plumbing, or electrical work will be done, in whole or in part, by me or by subcontractors under my supervision, in accordance with all applicable laws; and, I further acknowledge that said new home is not covered under the New Home Warranty and Builders Registration Act (N.J.S.A. 46:3B-1 et seq.) And that such fact shall be disclosed to any person purchasing this property within ten years of the date of issuance of a certificate of occupancy.

I UNDERSTAND THAT IN MARKING BOX A, I ACKNOWLEDGE THAT I AM ASSUMING RESPONSIBILITY FOR THE WORK DONE ON SAID PROPERTY, THE CONDITION OF THE PROPERTY PRIOR TO, DURING, AND AFTER ANY WORK PERFORMED, AND FOR THE PERFORMANCE OF THE SUBCONTRACTORS I HIRE, EMPLOY, OR OTHERWISE CONTRACT OR WITH WHOM I MAKE AGREEMENTS TO PERFORM WORK. I AM VOLUNTARILY AND KNOWINGLY ASSUMING THIS RESPONSIBILITY.

- B. ☐ I further certify the following as required by the New Jersey Uniform Construction Code, N.J.A.C. 5:23-2.15(e)1.vii:

I personally prepared the plans submitted for: 1) the new home referred to in A.; or, 2) an addition, alteration, renovation, or repair to an existing single family residence owned and occupied by myself and located on the property listed on Page 1; or 3) a new structure that will be physically separate from, but that will be deemed part of, an existing single family residence that is owned and occupied by myself and located on the property listed on Page 1.

- C. ☐ I further certify that I will perform or supervise the following work:

C.1. ☐ Building C.2. ☐ Fire Protection

I further certify that I will perform the following work:

C.3. ☐ Electrical C.4. ☐ Plumbing

- D. ☐ I agree to advise all contractors on this project that they are required to be registered with the New Jersey Division of Taxation and to comply with all New Jersey tax laws.

I further certify the following as required by the Uniform Construction Code, N.J.A.C. 5:23-2.15(a)5: All require State, county, and local prior approvals have been given, including such certification as the construction official may require, I understand that if any of the above statements are willfully false, I am subject to punishment.

Signature _____ Date _____

II. AGENT SECTION

(to be completed if the applicant is not the owner in fee)

I hereby certify the following as required by the New Jersey Uniform Construction Code, N.J.A.C. 5:32-2.15(d): the proposed work is authorized by the owner in fee; and I have been authorized by the owner in fee to make this application as his agent.

I further certify the following as required by the Uniform Construction Code, N.J.A.C. 5:23-2.15(a)5: All required State, county, and local prior approvals have been given, including such certification as the construction official may require.

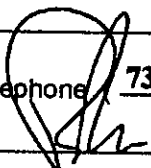
I agree to advise all contractors on this project that they are required to be registered with the New Jersey Division of Taxation and to comply with all New Jersey tax laws.

I understand that if any of the above statements are willfully false, I am subject to punishment.

(X) Check if contractor.

Agent Name  **COMPLETE SECURITY SYSTEMS, INC.**
Address **16 NORTH MAIN STREET, MARLBORO, NJ 07746**

Telephone **732** **780-6787**

Signature  **ROBERT PFLEGER for CHRIS MOSLEY** Date **September 24, 2003**

OFFICE DATE RECEIVED _____

VIII. PRIOR APPROVALS CHECKLIST (office use only)	LOCAL APPROVAL		COUNTY APPROVAL		REGIONAL APPROVAL		STATE APPROVAL		COMMENTS
	Prelimin. Initial	Final Date	Prelimin. Initial	Final Date	Prelimin. Initial	Final Date	Prelimin. Initial	Final Date	
☐ Zoning Officer									
☐ Planning Board									
☐ Zoning Board									
☐ Sewer Authority									
☐ Water Authority									
☐ Fire Department									
☐ Police Department									
☐ Health Department									
☐ Soil Conservation									
☐ N.J. Dept. of Community Affairs									
☐ N.J. Department of Transportation									
☐ N.J. Dept. of Environmental Protect.									
☐ Utility Dig No.									
☐									
☐									

IX. SUBCODES AND SPECIAL REGULATIONS APPLICABLE (office use only - optional)

Name of Code & Edition

Name of Code & Edition

Building _____

Energy _____

Other _____

Electrical _____

Barrier Free _____

Plumbing _____

Flood Hazard _____

Fire Protection _____

As Built Elevation Cert. _____

Mechanical _____

Other _____

X. CERTIFICATES ISSUED (office use only)

DATE ISSUED

DATE EXPIRED

DATE REISSUED

DATE EXPIRED

☐ Temporary Certificate of Occupancy No. _____

☐ Temporary Certificate of Compliance No. _____

☐ Continued Certificate of Occupancy No. _____

☐ Certificate of Compliance No. _____

☐ Certificate of Occupancy No. _____

☐ Certificate of Approval No. _____

TOWNSHIP OF BRICK
401 CHAMBERS BRIDGE RD
DIVISION OF INSPECTIONS

Date Issued 10/06/2003
Control #
Permit # 03-4439

DEPT NEW JERSEY
CONSTRUCTION
PERMITS

IDENTIFICATION Sheet 932 Lot 4 Sub 1
Work Site Location 1759 ROUTE 38
Owner in Fee FARMERS CONTRACTING
Address SAME/PO BOX 1202
PT PLEASANT, NJ 08742-
Telephone () -
Contractor COMPLETE SECURITY SYSTEMS
Address 16 N MAIN ST
MABLETON, NJ 07745-
Telephone (732) 730-2721
Lic. No. of Master Reg. No.
Federal Emp. No. 32-6684857

Is hereby granted permission to perform the following work:
() BUILDING () LEAD HAZARDOUS ABATEMENT
(X) ELECTRICAL (X) FIRE PROTECTION () DEMOLITION
() ELEVATOR DEVICES () ASBESTOS ABATEMENT () OTHER
(Subchapter B only)
DESCRIPTION OF WORK:
FIRE SYSTEM

NOTE: If construction does not commence within one (1) year of date of issuance,
or if construction ceases for a period of six (6) months, this permit is void.

Estimated Cost of Work \$ 2,000
Construction Official
10/06/2003

Date

O.C.C. F170 (REV. 3/94) NJ OCCAS 5.29E

PAYMENTS (Office Use Only)
Building 0
Electrical 44
Plumbing 0
Fire Protection 45
Elevator Devices 0
Other 0
OCA State Permit Fee 12
Cert. of Occupancy 0
Other
Total 101
Check No. 18413
Cash
Collected By MJA

10/06/03 2:25PM 00000044206
**02 SERV.002
#4439
ELECTRIC \$44.00
FIRE \$45.00
OCA \$12.00
CHECK \$101.00

Township
of Brick



CONSTRUCTION PERMIT

Date Issued _____

Control # _____

Permit # _____

IDENTIFICATION Block 852

Lot 4

Work Site Location 1759 State Highway 88 East

Contractor **COMPLETE SECURITY SYSTEMS**

Address 16 N. MAIN ST, MARLBORO, NJ 07746

Owner In Fee Pharos Contracting

Address 1759 State Highway 88 East, PO Box 1802
Point Pleasant Beach, NJ 08742

Tel. (732) 780-6787

Lic. No. or Bids. Reg. No. _____

Fed. Emp No. 222684897

Tel. (_____) _____

Is hereby granted permission to perform the following work:

☐ BUILDING	☐ PLUMBING	☐ LEAD HAZARD ABATEMENT
☒ ELECTRICAL	☒ FIRE PROTECTION	☐ DEMOLITION
☐ ELEVATOR DEVICES	☐ ASBESTOS ABATEMENT (Subchapter 8 only)	☐ OTHER _____

DESCRIPTION OF WORK:

NOTE: If construction does not commence within one (1) year of date of issuance, or if construction ceases for a period of six (6) months, this permit is void.

Estimated Cost of Work \$ 9,000.00

PAYMENTS (Office Use Only)

Building _____

Electrical _____

Plumbing _____

Fire Protection _____

Elevator Devices _____

Other _____

DCA Training Fee _____

Cert. Of Occupancy _____

Other _____

Total _____

Check No. _____

Cash _____

Collected By _____

REQUIRED INSPECTIONS

Construction work must be inspected in accordance with the State Uniform Construction Code Regulations N.J.A.C. 5:23-2.18. This agency will carry out such periodic inspections during the progress of work as are necessary to insure that work installed conforms to the approved plans and requirements of the Uniform Construction Code.

The owner or other responsible person in charge of work must notify this agency when work is ready for any required inspections specified below. Requests for inspections must be made at least 24 hours prior to the time the inspection is desired. Inspections will be performed within three business days of the time for which they are requested. The work must not proceed in a manner which will preclude the inspection until it has been made and approval given.

☐ Required inspections for all subcodes for one and two family dwellings are the following:

1. The bottom of footing trenches before placement of footings, except that in case of pile foundations, inspections shall be made in accordance with the requirements of the building subcode.
2. Foundations and all walls up to grade prior to back filling.
3. All structural framing and connections prior to covering with finish or infill material; plumbing underground services, rough piping, water service, sewer, septic services and storm drains; electrical rough wiring, panels and service installations; insulation installations.
4. Installation of all finished materials, sealings of exterior joints; plumbing piping, trim and fixtures; electrical wiring, devices and fixtures; mechanical systems equipment.

☐ Required special inspections. The applicant by accepting the permit will be deemed to have consented to these requirements:

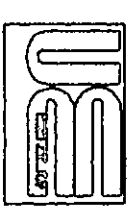
☐ A final inspection is required for each applicable subcode area before a final Certificate of Occupancy or Approval may be issued. Any violations of the approved plans and/or permit will be noted and the holder of the permit notified of discrepancies.

☐ A complete copy of approved plans must be kept on the job site.

00.000.0

If you do not understand any of this information, please ask.

Township
of Brick



FIRE
SUBCODE
TECHNICAL SECTION

LOW VOLTAGE

A. IDENTIFICATION - APPLICANT COMPLETE ALL APPLICABLE INFORMATION WHEN CHANGING CONTRACTORS. NOTIFY THIS OFFICE. CALL UTILITY DIG NO: 1-800-272-1000.

Block 852 Lot 4

Want Size Location 1759 State Highway 88 East

Owner In Fee Phonics Contracting

Address 1759 State Highway 88 East, PO Box 1802

Point Pleasant Beach, NJ 08742

Tele. () 732 780-6787 For () 732 845-4739

Contractor Complete Security Systems, Inc. COMPLETE SECURITY SYSTEMS

Address 16 NORTH MAIN STREET

MARLBORO, NJ 07746

Federal Emp. No. 222684897

2. FIRE PROTECTION CAPACITIES

Use Group Present Proposed

Contract Class Present Proposed

Heating Systems 1 Now Existing 1 HVAC

Type 1 Gas 1 Oil 1 Electric 1 Solar

1 Other

Location Fire Alarm System

Total Cost of Fire Protection Work \$ 3,000.00

3. JOB SUMMARY (Owner Use Only)

PLAN REVIEW

1 No Plans Required

Joint Plan Review Required:

1 Building 1 Plumbing

1 Electric 1 Elevator

1 Fire Alarm Approved

Date: 8-26-73

Approved by: TH

SUBCODE APPROVAL

1 CO 1 CCO 1 CA

Date: 8-26-73

Approved by: TH

INSPECTIONS

Type Feature Feature Approved Initial

Alarm System Suppression Sys. Standpipe Fire Pump

Pre-Eng. System Mechanical Smoke Control TCO

Find Other

Approved by: TH

B. TECHNICAL SITE DATA

DESCRIPTION OF WORK:

Water Supply System

Method of Alarm/Suppression System Suppression



Date Received
Date Issued
Controlled
Permit ID

10-6-03
03-4439

Storage Tanks

Type 1 Flammable Liquid 1 Combustible Liquid

1 LPG 1 LHG Capacity _____ Fuel _____

Alarm Systems 1 110V Interconnected _____

1 System

Alarm Devices (i.e., Smoke, heat, pull, water/level)

Supervisory Devices (i.e., Tempers, low/high air)

Signaling Devices (i.e., Horns, bells)

Other Devices _____

Other Devices _____

TOTAL 19

Suppression System

Fire Pump _____ GPM Type _____

Dry Pipe/Alarm Valves

Pre-action Valves

Sprinkler Heads (Dry and Wet)

Standpipes

Prohibited Systems

Wet Chemical

Dry Chemical

CO₂ Suppression

Foam Suppression

Halon Suppression

Other _____

Kitchen Hood Exhaust System

Smoke Control System

Gas 1 or Oil 1 Fired Appliances

Other _____

FIELD (Owner Use Only)

Administrative Surcharge \$ _____

Minimum Fee \$ _____

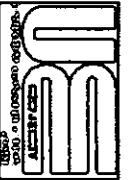
DCA Training Fee \$ _____

TOTAL FEE \$ _____

Signature TH

UCC P140
(rev 3/69)

Township of Brick



ELECTRICAL SUBCODE TECHNICAL SECTION

A. IDENTIFICATION - APPLICANT: COMPLETE ALL APPLICABLE INFORMATION WHEN CHANGING CONTRACTORS. NOTIFY THIS OFFICE. CALL UTILITY DIG NO. 1-800-272-1000.

Block 852 Lot 4

Work Site Location 1759 State Highway 888 East

Owner In Fee/Occupant Pharos Contracting

Address 1759 State Highway 888 East, PO Box 1802

Princeton Township, NJ 08742

Tele. ()

Contractor COMPLETE SECURITY SYSTEMS

Address 16 NORTH MAIN STREET

MARLBORO, NJ 07746

Tele. (732) 730-6787 Fax (732) 865-4789

Lic. No. 222604897

Federal Emp. No. 222604897

B. ELECTRICAL CHARACTERISTICS

Use Group Present Proposed _____

☐ Pole/Pad ☐ Temporary ☐ Other _____

Building Occupied as _____ Utility Co. _____

Est. Cost of Elec. Work \$ 6,000.00

JOB SUMMARY (Office Use Only)

PLAN REVIEW	Date	Initial	INSPECTIONS	Type	Failure	Failure	Approval	Initial
☐ No Plans Required								
Joint Plan Review Required:								
☐ Building ☐ Plumbing								
☐ Fire ☐ Elevator								
☒ Elec. Plans Approved								
Date: <u>10/03</u>								
Approved by: <u>WA</u>								
SUBCODE APPROVAL								
☐ CO ☐ CCO ☐ CA								
Date: <u>_____</u>								
Approved by: <u>_____</u>								

C. CERTIFICATION IN LIEU OF OATH

I hereby certify that I am the agent of owner of record and am authorized to make this application and perform the work listed on this application.

Applicant's Signature/Contractor's Seal and Signature

☐ Licensed Electrical Contractor ☒ Exempt Applicant



Date Received 10-6-03
Date Issued 11/13/04
Control # 03-4439
Permit # _____

D. TECHNICAL SITE DATA

QTY. SIZE ITEMS

Lighting Fixtures

Receptacles

Switches

Detectors

Light Poles

Motors - Fract. HP

Emergency & Exit Lights

Communication Points

Alarm Devices/F.A.C. Panel

Hotlines/Sirens

TOTAL NUMBERS

Pool Permittwith UV Lights

Storable Pool/Spa/Hot Tub

KW Elec. Range/Receptacle

KW Oven/Surface Unit

KW Elec. Water Heater

KW Elec. Dryer/Receptacle

KW Dishwasher

HP Garbage Disposal

KW Central A/C Unit

HP/KW Space Heater/Air Handler

KW Baseboard Heat

HP Motors 1/2 HP

KW Transformer/Generator

AMP Service

AMP Subpanels

AMP Motor Control Center

KW Elec. Sign/Outline Light

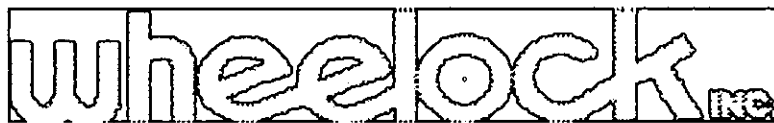
FEE (Office Use Only)

Administrative Surcharge	\$
Minimum Fee	\$
DCA Training Fee	\$
TOTAL FEE	\$

Pharos Contracting
Attn: Mr. Stephen LoSacco
1759 Route 88 East
Point Pleasant Beach, NJ 08742

LIST OF PROTECTION

1. One (1) Radionics, Model D7024, fire alarm control panel with battery back up and dual phone line digital communicator located in mechanical/telco room.
2. One (1) Radionics, Model D7036, fire annunciator keypad.
3. Eleven (11) Radionics, Model D7053, contact monitor modules with relays tie into (9) HVAC Duct Detectors (furnished & installed by others).
4. One (1) OS & Y gate valve tamper switch.
5. One (1) low building temperature device.
6. Two (2) strobe only, notification appliances (bathrooms).
7. One (1) exterior, combination horn/strobe notification appliance.
8. Thirteen (13) interior combination horn/strobe notification appliances.
9. Nine (9) remote indicating lamp with test & reset functions (for duct detectors).
10. One (1) connection to existing 6" water flow switch.
11. One (1) connection to customer supplied knox box.



Fire Alarm Systems

Helping People Take Action™

FEATURING

SPEC1FIRE™

A Family of Multi-Candela Appliances™

Description

The Series NS and NS4 Horn Strobe Appliances will satisfy virtually all requirements for indoor, wall mount applications.

The Series NH Horn and the horn portion of the Series NS and NS4 include a selectable continuous horn tone or temporal pattern (Code 3) with selectable dBA settings of 90 or 95 dBA.

Strobe options include 15/75cd or Wheelock's patented Multi-Candela strobe with field selectable candela settings of: 15, 30, 75 or 110cd.

These versatile Horn Strobe Appliances may be synchronized when used in conjunction with the Wheelock SM, DSM Sync Modules or the PS-12/24-8 Power Supply with Wheelock's patented Sync Protocol. Additionally, the audible may be silenced while maintaining strobe activation.

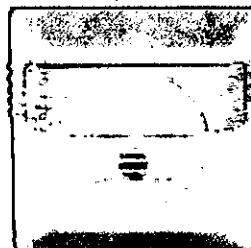
All models of the Series NS and NS4 are designed for maximum performance, reliability and cost-effectiveness while meeting or exceeding the latest requirements of NFPA 72/ANSI 117.1/UFC and UL Standards 1971 and 464 as well as meeting ADA requirements concerning photosensitive epilepsy.

Wheelock's patented 2-Wire and 4-Wire Series NS/NS4 Horn Strobes and Series NH Horns offer more features with less current draw and Zero Inrush.

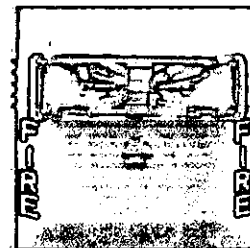
Your Choice

- Models are available in either 2-Wire, 12 or 24 VDC or 4-Wire, 24 VDC.
- Both 2-Wire and 4-Wire, 24 VDC models are available with Wheelock's patented Multi-Candela Strobe that offers field selectable candela settings of: 15, 30, 75 or 110cd.
- Also available are 15/75 candela models in either 2-Wire, 4-Wire, 12 or 24 VDC.
- Wheelock's 4-Wire Series NS4 Horn Strobe Appliances allow for separate operation of the horn and strobe circuits and meet the requirements of NFPA 72, 1-5.8.4.

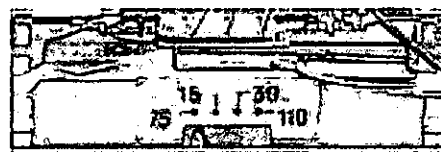
SERIES NS/NS4 SINGLE & MULTI-CANDELA HORN STROBE APPLIANCES SERIES NH HORNS



Series NH



Series NS/NS4



Multi-Candela Indicator
(bottom of Strobe Lens)

Features

- Approvals include: UL Standard 1971, UL Standard 464, New York City (MEA), California State Fire Marshal (CSFM) and Factory Mutual (FM) Pending: Chicago (BFP).
- ADA/NFPA/UFC/ANSI compliant.
- Complies with OSHA 29, Part 1910.165.
- Field Selectable Candela Settings: 15, 30, 75 or 110 cd. (Multi-Candela models) or 15/75 cd.
- Selectable Continuous Horn or Temporal (Code 3).
- 2 Selectable dBA settings of 90 and 95 dBA in both tones.
- 4-Wire Horn Strobe Appliance allows for separate operation of the horn and strobe circuits.
- Patented Universal Mounting Plate.
- 12 and 24 VDC models with UL "Regulated Voltage" using filtered DC or unfiltered VRMS input voltage.
- Wall Mount.
- Synchronize with Wheelock SM, DSM Sync Module or PS-12/24-8 Power Supply with built-in sync protocol.
- ZERO Inrush above Peak.
- Fast installation with IN/OUT screw terminals using #12 to #18 AWG wires.
- Backward compatible with other Wheelock Appliances.

NOTE: All CAUTIONS and WARNINGS are identified by the symbol . All warnings are printed in bold capital letters.

WARNING: PLEASE READ THESE SPECIFICATIONS AND ASSOCIATED INSTALLATION INSTRUCTIONS CAREFULLY BEFORE USING, SPECIFYING OR APPLYING THIS PRODUCT. FAILURE TO COMPLY WITH ANY OF THESE INSTRUCTIONS, CAUTIONS OR WARNINGS COULD RESULT IN IMPROPER APPLICATION, INSTALLATION AND/OR OPERATION OF THESE PRODUCTS IN AN EMERGENCY SITUATION, WHICH COULD RESULT IN PROPERTY DAMAGE, AND SERIOUS INJURY OR DEATH TO YOU AND/OR OTHERS.

General Notes:

- Strobes are designed to flash at 1 flash per second minimum over their "Regulated Voltage Range". Note that NFPA-72 specifies a flash rate of 1 to 2 flashes per second and ADA Guidelines specify a flash rate of 1 to 3 flashes per second.
- All candela ratings represent minimum effective Strobe intensity based on UL Standard 1971.
- Series NS and NS4 Strobe products are listed under UL Standard 1971 for indoor use with a temperature range of 32°F to 120°F (0°C to 49°C) and maximum humidity of 93% ($\pm 2\%$).
- Series NH horns are listed under UL Standard 464 for audible signal appliances (Indoor use only).
- "Regulated Voltage Range" is the newest terminology used by UL to identify the voltage range. Prior to this change UL used the terminology "Listed Voltage Range".

Model	Input Voltage VDC	Regulated Voltage Range VDC/FWR	Strobe Candela (CD)
NS-24MCW	24	16.0 - 33.0	15/30/75/110
NS-241575W	24	16.0 - 33.0	15 (75 on Axis)
NS-121575W	12	8.0 - 17.5	15 (75 on Axis)
NS4-24MCW	24	16.0 - 33.0	15/30/75/110
NS4-241575W	24	16.0 - 33.0	15 (75 on Axis)

Table 2: *Average Current Ratings (AMPS) NS-24MCW with High (95 dBA) Setting

Voltage	15cd	30cd	75cd	110cd
16.0 VDC	.080	.128	.226	.304
24.0 VDC	.072	.094	.153	.183
33.0 VDC	.068	.092	.148	.166
NS-24MCW with Low (90 dBA) Setting				
Voltage	15cd	30cd	75cd	110cd
16.0 VDC	.078	.123	.219	.287
24.0 VDC	.058	.082	.140	.174
33.0 VDC	.052	.075	.128	.161

Table 3: Series NS 15/75CD *Average Current Ratings (AMPS)

Description	VOLTAGE					
	8.0 VDC	12.0 VDC	16.0 VDC	17.5 VDC	24.0 VDC	33.0 VDC
24 Volt NS 15/75 cd with High (95 dBA) Setting	-	-	.114	-	.086	.081
24 Volt NS 15/75 cd with Low (90 dBA) Setting	-	-	.111	-	.079	.075
12 Volt 15/75 cd (High)	.265	.167	-	.119	-	-
12 Volt 15/75 cd (Low)	.262	.161	-	.115	-	-

Voltage	15cd	30cd	75cd	110cd
16.0 VDC	.076	.122	.240	.312
24.0 VDC	.052	.079	.148	.178
33.0 VDC	.043	.065	.110	.134
*Average Current AMPS NS4-15/75 Candela - Strobe Only				
Voltage	15/75cd			
16.0 VDC	.100			
24.0 VDC	.069			
33.0 VDC	.052			

Voltage	High (95) dBA	Low (90) dBA
16.0 VDC	.019	.012
24.0 VDC	.028	.015
33.0 VDC	.039	.018

* Average Current per actual Wheelock Production Testing at listed VDC. For rated average and Peak current across the UL listed voltage range for both filtered DC and unfiltered VRMS, see Installation Instructions.

Note: For Total Current Draw of Series NS4 Multi-Candela, 15/75, Add the appropriate Current Draw from Table 4 to the appropriate Current Draw from Table 5.

Description	Volume	Reverberant dBA @ 10ft per UL 464		Anechoic dBA @ 10 ft	
		12VDC	24VDC	12VDC	24VDC
Continuous Horn	High	83	87	89	95
	Low	76	81	84	90
Code 3 Horn	High	79	82	89	95
	Low	72**	76	84	90

** 12 VDC Model set on Code 3-Low does not meet the minimum UL Reverberant Sound level required for Public Mode Fire Protection Service.

Model Number	Order Code	Input Voltage (VDC)	Average Current (AMPS) @ 24 VDC	Mounting Options***
SM-12/24-R*	6369	24	.028	W
DSM-12/24-R**	6374	24	.035	W
PS-12/24-S***	8114	120 VAC		

SM Sync Module is rated for 3.0 amperes @ 24 VDC;

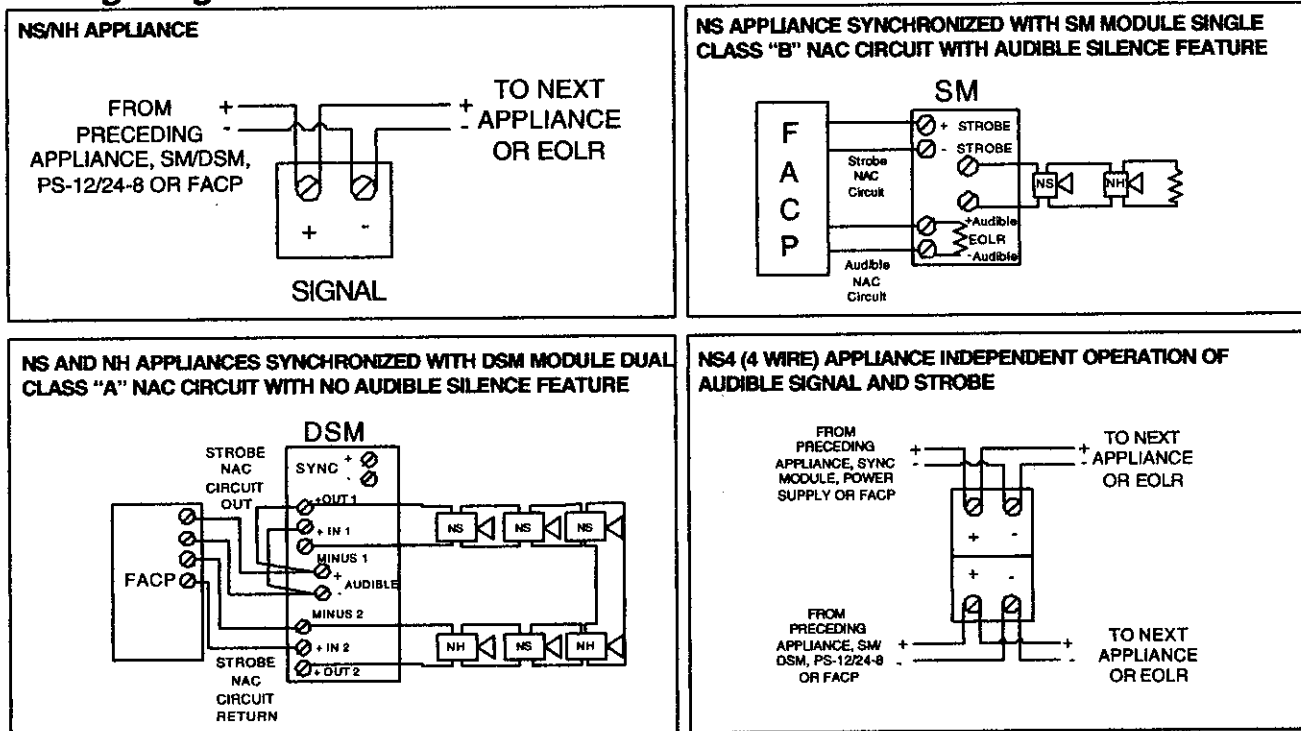
##DSM Sync Module is rated for 3.0 amperes per circuit. The maximum number of interconnected DSM Modules is twenty (20). Refer to Data Sheet S3000 or Installation Instructions P83123 for SM and P83177 for DSM.

###Refer to Data Sheet S9001 or Installation Instructions P83862 for PS-12/24-S Power Supply.

⚠ WARNING: CONTACT WHEELLOCK FOR THE CURRENT INSTALLATION INSTRUCTIONS (P83983) SERIES NS-24MCW, (P84030) SERIES NS-12 AND 24 VDC SINGLE CANDELA MODELS, (P83984) NS4-24MCW, (P84020) SERIES NS4-241575W, (P83600) SERIES NH AND "GENERAL INFORMATION" SHEET (P82380) ON THESE PRODUCTS. THESE DOCUMENTS UNDERGO PERIODIC CHANGES. IT IS IMPORTANT THAT YOU HAVE CURRENT INFORMATION ON THESE PRODUCTS. THESE MATERIALS CONTAIN IMPORTANT INFORMATION THAT SHOULD BE READ PRIOR TO SPECIFYING OR INSTALLING THESE PRODUCTS, INCLUDING:

- TOTAL CURRENT REQUIRED BY ALL APPLIANCES CONNECTED TO SYSTEM SECONDARY POWER SOURCES.
- FUSE RATINGS ON NOTIFICATION APPLIANCE CIRCUITS TO HANDLE PEAK CURRENTS FROM ALL APPLIANCES ON THOSE CIRCUITS.
- COMPOSITE FLASH RATE FROM MULTIPLE STROBES WITHIN A PERSON'S FIELD OF VIEW.
- ADDING, REPLACING OR CHANGING APPLIANCES OR CHANGING CANDELA SETTINGS WILL EFFECT CURRENT DRAW. RECALCULATE CURRENT DRAW TO INSURE THAT THE TOTAL AVERAGE CURRENT AND TOTAL PEAK REQUIRED BY ALL APPLIANCES DO NOT EXCEED THE RATED CAPACITY OF THE POWER SOURCES OR FUSES.
- THE VOLTAGE APPLIED TO THESE PRODUCTS MUST BE WITHIN THEIR "REGULATED VOLTAGE RANGE".
- INSTALLATION OF 110 CANDELA STROBE PRODUCTS IN SLEEPING AREAS.
- INSTALLATION IN OFFICE AREAS AND OTHER SPECIFICATION AND INSTALLATION ISSUES.
- THESE APPLIANCES ARE NOT DESIGNED TO BE USED ON CODED SYSTEMS IN WHICH THE APPLIED VOLTAGE IS CYCLED ON AND OFF.
- FAILURE TO COMPLY WITH THE INSTALLATION INSTRUCTIONS OR GENERAL INFORMATION SHEETS COULD RESULT IN IMPROPER INSTALLATION, APPLICATION, AND/OR OPERATION OF THESE PRODUCTS IN AN EMERGENCY SITUATION, WHICH COULD RESULT IN PROPERTY DAMAGE AND SERIOUS INJURY OR DEATH TO YOU AND/OR OTHERS.
- CONDUCTOR SIZE (AWG), LENGTH AND AMPACITY SHOULD BE TAKEN INTO CONSIDERATION PRIOR TO DESIGN AND INSTALLATION OF THESE PRODUCTS, PARTICULARLY IN RETROFIT INSTALLATIONS.

Wiring Diagrams*



NOTE: NS/NS4/NH must be set on Code 3 horn tone to achieve synchronized temporal (Code 3) tone. Refer to installation instruction (P83983, P83984, P83600 respectively).

* For detail using SM or DSM Sync Module refer to Data Sheet S3000 or Installation Instructions P83123 for SM and P83177 for DSM. For wiring information on the PS-12/24-8 Power Supply refer to Installation Instructions P83862.

Wheelock products must be used within their published specifications and must be PROPERLY specified, applied, installed, operated, maintained and operationally tested in accordance with their installation instructions at the time of installation and at least twice a year or more often and in accordance with local, state and federal codes, regulations and laws. Specification, application, installation, operation, maintenance and testing must be performed by qualified personnel for proper operation in accordance with all of the latest National Fire Protection Association (NFPA), Underwriters' Laboratories (UL), National Electrical Code (NEC), Occupational Safety and Health Administration (OSHA), local, state, county, province, district, federal and other applicable building and fire standards, guidelines, regulations, laws and codes including, but not limited to, all appendices and amendments and the requirements of the local authority having jurisdiction (AHJ).

ARCHITECTS AND ENGINEERS SPECIFICATIONS

The audible/visual notification appliances shall be Wheelock Series NS/NS4 Horn Strobe appliances and Series NH Horn appliances or approved equals. The Series NS/NS4 appliances shall meet and be listed for UL Standard 1971 (Emergency Devices for the Hearing-Impaired for Indoor Fire Protection Service). The Series NH Horn shall be UL Listed under Standard 464 (Fire Protective Signaling). The horn strobe shall be listed for indoor use and shall meet the requirements of FCC Part 15 Class B. All inputs shall be compatible with standard reverse polarity supervision of circuit wiring by the Fire Alarm Control Panel (FACP).

The audible portion of the appliance shall have a minimum of two (2) field selectable settings for dBA levels and shall have a choice of continuous or temporal (Code 3) audible outputs.

The strobe portion of the appliance shall produce a flash rate of one (1) flash per second over the Regulated Voltage Range and shall incorporate a Xenon flashtube enclosed in a rugged Lexan lens. The Series NS/NS4 shall be of low current design and shall have Zero Inrush. Where wall mount, Multi-Candela appliances are specified, the strobe intensity shall have a minimum of four (4) field selectable settings and shall be rated per UL Standard 1971 for: 15, 30, 75 or 110 candela. The selector switch for selecting the candela setting shall be tamper resistant and not accessible from the front of the appliance. The 15/75 candela strobe shall be specified when 15 candela UL Standard 1971 Listing with 75 candela on-axis is required (e.g. ADA compliance).

When synchronization is required, the appliance shall be compatible with Wheelock's SM, DSM Sync Modules or Wheelock's PS-12/24-8 Power Supply with built-in Patented Sync Protocol. The strobes shall not drift out of synchronization at any time during operation. If the sync module or Power Supply fails to operate, (i.e., contacts remain closed), the strobes shall revert to a non-synchronized flash-rate. The appliance shall also be designed so that the audible signal may be silenced while maintaining strobe activation.

The Series NS/NS4 Horn Strobes shall incorporate a Patented Universal Mounting Plate that shall allow mounting to a single-gang, double-gang, 4-inch square, 100mm European type backboxes, or the SHBB Surface Backbox. If required, an NATP (Notification Appliance Trimplate) shall be provided.

All notification appliances shall be backward compatible.

SPECIFICATION & ORDERING INFORMATION

Model	Order Code	Strobe Candela	Non-Sync	Sync w/ SM, DSM or PS-12/24-8	24 VDC	12 VDC	2 WIRE	4 WIRE	Mounting Options*
NS-24MCW-FR	9404	15/30/75/110	X	X	X	-	X	-	B,D,E,F,G,H,J,N,O,R,X
NS-24MCW-FW	9405	15/30/75/110	X	X	X	-	X	-	B,D,E,F,G,H,J,N,O,R,X
NS-241575W-FR	7806	15 (75 on Axis)	X	X	X	-	X	-	B,D,E,F,G,H,J,N,O,R,X
NS-121575W-FR	7816	15 (75 on Axis)	X	X	-	X	X	-	B,D,E,F,G,H,J,N,O,R,X
NS4-24MCW-FR	9406	15/30/75/110	X	X	X	-	-	X	B,D,E,F,G,H,J,N,O,R,X
NS4-24MCW-FW	9407	15/30/75/110	X	X	X	-	-	X	B,D,E,F,G,H,J,N,O,R,X
NS4-241575W-FR	7901	15 (75 on Axis)	X	X	X	-	-	X	B,D,E,F,G,H,J,N,O,R,X
NH-12/24-R	7449	12V 24V	X	X	X	X	X	-	B,D,E,F,G,H,J,N,O,R,X

*Refer to Data Sheet S7000 for Mounting Options

NOTE: Due to continuous development of our products, specifications and offerings are subject to change without notice in accordance with Wheelock Inc. standard terms and conditions.

WE ENCOURAGE AND SUPPORT NICET CERTIFICATION 3 YEAR WARRANTY

Made in USA

National Sales Office
800-631-2148
Canada 800-397-5777
E-Mail: Info@wheelockinc.com
<http://www.wheelockinc.com>



Distributed By:

273 Branchport Avenue • Long Branch, NJ 07740 • TEL: 732-222-6880 • FAX: 732-222-2588

S2100 Rev. 06/02

Specifications**Features****Conventional Features**

- Four conventional zone (expandable to eight) Fire Alarm Control Panel (FACP)
- Built-in Digital Alarm Communicator Transmitter (DACT)
- 4 Programmable authority levels
- Each detector zone supports up to 20 two-wire smoke detectors
- Up to 18 programmable relay outputs
- 32 character backlit LCD display
- Supports up to four D7033 Fire System Controllers and eight D7030X Series LED Annunciators
- Two Notification Appliance Circuits (NAC) on board
- Internal 24VDC, 4 amp NAC power supply
- Programmable through front panel interface or remote D7033 Fire System Controller
- 99 event history buffer
- Option Bus provides serial data interface for fire alarm accessories
- UL Listed for fire applications
- Compatible with RAM IV
- Wheelock™ Signal Sync

Multiplex Features (D7039)

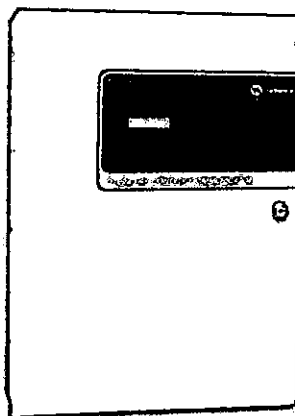
- Expandable to 255 addresses using multiplex technology
- Relay outputs expandable to 58
- 499 event history buffer
- PINs available for up to 100 system users
- Compatible with RAM IV

Description**Conventional D7024 FACP**

The Radionics D7024 is a fully integrated FACP that provides four zones and is capable of supporting both two-wire and four-wire detectors. Each zone can support up to 20 two-wire detectors, or any number of four-wire detectors (depending on available power).

Two Notification Appliance Circuits (NAC) provides up to 4 amps of 24-volt power to operate horns, strobes, bells, and other notification appliances. Each NAC can be programmed to provide the Wheelock™ Synchronized Output.

System control can be accessed through a built-in user interface in the panel, or through the remote D7033 Fire System Controllers connected to the system.



D7024 Fire Control/Communicator

A viewing port in the keyed panel enclosure door leaves the system status LEDs and LCD display visible while maintaining system control key security.

Unlocking the enclosure door provides access to the system keys for silencing alarm and trouble conditions, zone bypassing, detector resetting, testing, and other fire functions as well as programming. These functions are also available on all D7033 Controllers connected to the system.

All system controllers provide custom text annunciation on a 32 character, backlit, two-line LCD display. All system controllers also have built-in sounders. Backlight intensity and sounder volume are programmable. 16 Personal Identification Numbers (PIN) are available for access to system control. Each number can be assigned an authority level to limit system control functions that may be accessed.

The system stores events in a 99-event memory log.

The D7024 Communicator reports to two telephone numbers with full single, double, and backup reporting and communicates in BFSK, SIA, Contact ID, Modem IIIa² and 4/2 and 3/1 Tone Bursts.

The D7024 enclosure has space for additional accessory modules and two D1218 12V, 17 Ah batteries or two D126 12V, 7 Ah batteries.

Multiplex Technology (D7039)

The D7024 conventional system features can be enhanced, when running version 2.02 or higher firmware with the addition of a D7039 Multiplex Expansion Module. The D7039 expands the base system up to 255 addressable points, increases the number of relay outputs to 58 and adds an additional 400 events to the history buffer for a total of 499 events. The D7039 also allows for up to 100 system users (an addition of 84 PINs from the base system).



radionics

**A member of the
Bosch Group**

D7024

Application

The D7024 can be used in commercial and public building applications such as schools, universities, manufacturing plants and health care facilities.

It is listed by UL for Central Station, Local, Auxiliary and Remote Station Systems.

Installation

The D7024 enclosure and the Control/Communicator are shipped together. All mounting hardware necessary for mounting the Control/Communicator in the enclosure is included. The control panel must be installed in accordance to the National Electrical Code (NFPA 70), the National Fire Alarm Code (NFPA 72) and the Authority Having Jurisdiction.

Specifications

Power	
Input	120 V, 60 Hz, 1.5 A max (20 A fused supply circuit).
NAC	24 VDC nominal, 4 A; circuit rating: 2.5 A.
Auxiliary	24 VDC nominal, unfiltered, 1.0 A.
Smoke	24 VDC nominal, filtered, 1.0 A.
Option Bus	12 VDC nominal, 500 mA.
Notification Appliance Circuits (NACs)	
NAC Outputs	2 on-board
NAC Wiring	Standard Class B, Style Y operation. Use D7015 for Class A, Style Z operation.
Relays	
On-board Relays	Two Form "C" relays rated at 5 A, 28VDC each.
Off-board Relays	Up to two D7035 Octal Relay Modules providing eight Form "C" relay outputs each. Contacts rated at 5 A, 28 VDC.
On-board Conventional Points	
Number of 2-Wire Circuits	Four circuits, expandable to eight using a D7034 Four Point Expander Module.
Circuit Type	Class B, Style B (use a D7014 for Class A, Style D operation).
EOL Resistor	2.21K ohms (P/N: 25899, UL listed).
Supervisory Current	8-20 mA
Required Alarm Current	25 mA
Max. Short Circuit Current	44 mA
Max. Line Resistance	150 ohms
Circuit Voltage Range	20.4 – 28.2 VDC
Max. Detectors per Point	20 detectors (2-wire)
Total Detector Standby Current	3 mA max.
Response Time	Fast = 0.5 sec; programmable from 1 to 89 seconds.

Storage and Operating Temperature	
Temperature	+32° to 120°F (0° to +49°C)
Off-board Addressable Points (w/ D7039 Multiplex Expansion Module)	
Number of Signaling Line Circuits (SLC)	Two Class B, Style 4 SLC's (can be combined into one Class A, Style 6 circuit)
Enclosure Dimensions	
Width	15 in. (38.1 cm)
Height	20.8 in. (52.7 cm)
Depth	4.3 in. (10.8 cm)
Keypads/Annunciators	
D7033 Keypads	Four (max.)
D7030X Series Annunciators	Eight (max.)
Wire Type	#18 AWG (min.); four-conductor F.P.L.
Option Bus Wiring	4,000 ft. (1,219.2 m) max.

Listings and Approvals

- Underwriters Laboratories UL 864
- CSFM
- NYC-MEA 12-92-E Vol. VII

Ordering Information

Model	Description
D126 (2)	12 V, 7 Ah Battery (6 in. x 2.6 in. x 3.94 in.)
D185	Reverse Polarity Signaling Module
D275	End Of Line Power Supervision Module
D1218 (2)	12 V, 17 Ah Battery (7.13 in. x 3 in. x 6.63 in.)
D7014	Class A Zone Converter
D7015	Class A NAC Converter
D7024	24VDC Fire Control/Communicator
D7030X	Eight Point LED Annunciator
D7030X-S2	Eight Point LED Annunciator (2 Yellow, 6 Red)
D7030X-S8	Eight Point LED Annunciator (8 Yellow)
D7031	Silence Reset Module
D7032	8 Zone LED Annunciator Expander
D7033	LCD Fire System Controller Keypad
D7034	Four Point Expander
D7035/B	Octal Relay Module/Box
D7036	LCD Annunciator (Silence and Reset Key enabled)
D7038	Remote NAC Power Supply
D7039	Multiplex Expansion Module
D7042/B	Multiplex Eight-Input Remote Module
D7048/B	Multiplex Octal Driver
D7050	Photoelectric Smoke Detector w/ Chamber Check Dirty Chamber Sensing
D7050TH	Photoelectric Smoke Detector w/ High Temperature Sensing & Chamber Check Dirty Chamber Sensing (D7050-B6 – 6 in. Base Required)
D343	Multiplex Duct Smoke Detector

Pharos Contracting
Attn: Mr. Stephen LoSacco
315-321 Hawthorne Avenue
Point Pleasant Beach, NJ 08742

LIST OF PROTECTION

1. *One (1) Radionics, Model D7024, fire alarm control panel with battery back up and dual phone line digital communicator located in mechanical/telco room.*
2. *One (1) Radionics, Model D7036, fire annunciator keypad.*
3. *Eleven (11) Radionics, Model D7053, contact monitor modules with relays tie into (9) HVAC Duct Detectors (furnished & installed by others).*
4. *One (1) OS & Y gate valve tamper switch.*
5. *One (1) low building temperature device.*
6. *Two (2) strobe only, notification appliances (bathrooms).*
7. *One (1) exterior, combination horn/strobe notification appliance.*
8. *Thirteen (13) interior combination horn/strobe notification appliances.*
9. *Nine (9) remote indicating lamp with test & reset functions (for duct detectors).*
10. *One (1) connection to existing 6" water flow switch.*
11. *One (1) connection to customer supplied knox box.*

COMPLETE SECURITY SYSTEMS, INC.

VENDOR ID:

18415

PAYEE:

Township of Brick

CHECK NO.: 18414

MEMO: Pharos Contracting

DATE: 10/03/03

CHECK TOTAL: *****\$101.00