HAMILTON AIR®

Pharmacy
Drive-up Systems

Installation Manual

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System Identification:

RX-SYS01   Drive-up pneumatic tube system with 3x5 window
                 Typically a reverse direction drive-up where as customer side of vehicle is not
                 against building. System includes HA1000 with two-way video, exterior audio
                 handset, 3x5 window, and PBX tie-in.

RX-SYS02   Drive-up pneumatic tube system with "Hurricane" turbine
                 Typically used for remote locations or long run applications. System includes
                 HA1000 with two-way video, hurricane turbine pack, exterior audio handset, and
                 PBX tie-in. Turbine pack can be remotely mounted for long run applications.

RX-SYS03   Walk-up Drawer
                 System includes 3x3 window, 400DD, exterior handset, and PBX tie-in

RX-SYS04   Drive-up Drawer
                 System includes 3x5 window, DCD-18, exterior handset, and PBX tie-in

RX-SYS05   Drive-up pneumatic tube system with 3x5 window and DCD-18
                 Typical drive-up system with one drawer lane against building and one pneumatic
                 tube lane. System includes HA1000 with two-way video, 3x5 window, DCD-18,
                 exterior audio handsets, and PBX tie-in.

RX-CC01   Secure Credit Card Enclosure for Pneumatic Lane
                 Enclosure houses two-way video and credit card machine.

RX-IR01   Vehicle IR detection kit
                 Kit includes Optex LX-402 IR sensor, Chime, and power supply.

RX-OCSIGN   Open/Closed Sign with switch (Installed by others)
                 Kit includes signal tech signs with lane status switches.

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HA-1000 Pneumatic Tube System

Important:

HA-1000 system requires CAT5 interconnection

All Models that include the I/O control boards (E0873) are interconnected from customer to teller unit with a single **CAT5 cable** (E0889).

Preoperational settings and inspections

All Micro-Switches

All micro-switches should be inspected for proper adjustment and operation by manually moving the door and safety bar before operating unit. Switches should be set to allow for variations in the set-points due to temperature changes and/or vibrations. This will insure that all adjustments and operations are satisfactory.

HA1000 Jumper Settings

Jumper #1 (JP1)   Manual Teller = JP1 – ON

Jumper #2 (JP2)   Manual Teller = JP2 – ON

Jumper #3 (JP3)   Manual Teller = JP2 – ON

Door Auto-Close Option

There is a fourth jumper that can be placed across pins #1 and #2 on the J4 input connector that will enable the door auto-close feature. This optional feature when activated by this jumper closes the customer door after three minutes of no activity with the unit. After the door has auto-closed, pressing either the send or teller call buttons will re-open the door for the customers.

HA1000 Switch Settings

The switches on the control boards are used to set functions and test operations. There are three slide switches and one pushbutton switch located on the control boards. The three slide switches are labeled #1, #2, and #3 while the fourth pushbutton switch (SW4) is labeled "Carrier Recall". Momentarily pressing SW4 recalls the carrier to this end of the tube system.

Standard switch settings for <u>Customer</u> mounted control board

SW1   Switch 1: **Blower Run Time Set.** "Off" is normal setting. Switching "On" enables blower "Time-Set" mode. See "Blower Run Time Set" for full instructions on setting blower run times.
- Activate "Turbine Test Mode" by holding SW4 while switching SW1 "On" if customer door is open and turbines are connected to this control board. Send and teller call will activate the pressure and vacuum turbines.
- If SW3 is turned on before SW1, the unit will enter "Door Test Mode" which allows send and teller call buttons to operate the customer door motor open and closed.

SW2   Switch 2: **Turbine Mode.** "Off" is normal setting with single stage turbine.

SW3   Switch 3: **Unit Selection.** "Off" is normal setting for board mounted in customer unit.

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Remote Mounted Turbine Pack

System RX-SYS05 includes the "Hurricane" turbine pack which increases carrier travel speed for long tube run applications. If the tube run is less than 200 feet in length, the turbine pack can be mounted inside the HA1000 customer unit. If the tube run is more than 200 feet in length and because the turbine motors will be running for extended time periods, the turbine pack should be mounted in the canopy above the customer unit. Below are instructions for a remote mounted turbine pack.
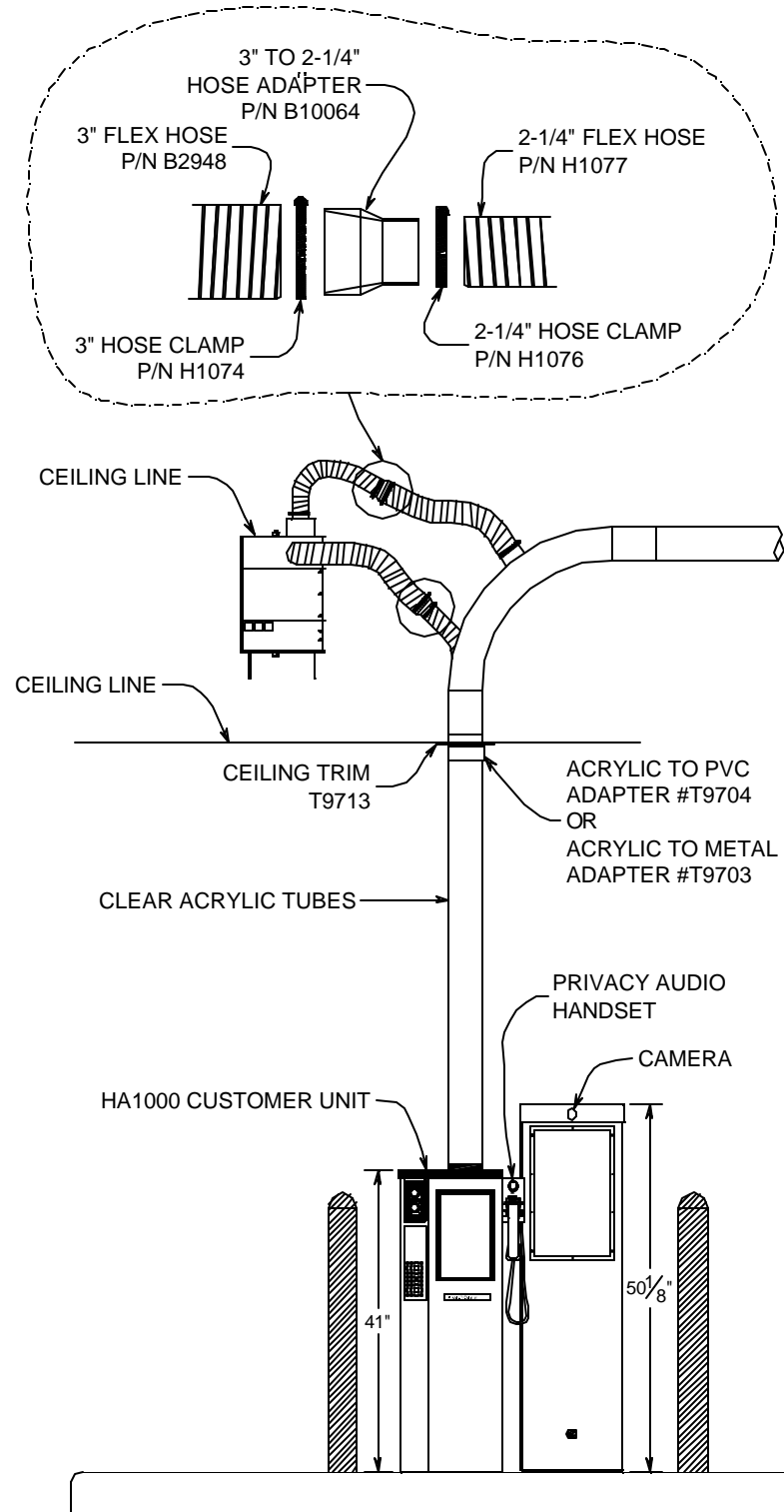
1) Install vented bend above customer unit in place of the standard non-vented bend.
2) Use acrylic to PVC or metal tubing adapter to connect acrylic tube to bend above customer unit.
3) Extend 2-1/4" acrylic brake tube into canopy area above customer unit.
4) Mount turbine pack above customer unit in canopy or other suitable location in close proximity.
5) Connect top turbine port to port on vented bend above customer unit with flex hose.
6) Connect side turbine port to 2-1/4" acrylic brake tube with flex hose.
7) Extend power wires from turbine pack down to customer unit control board and connect as normal.
8) Connect 2-1/4" top cap to 3" port inside HA1000 customer unit with flex hose as shown below.

3" TO 2-1/4" HOSE ADAPTER P/N B10064

3" FLEX HOSE P/N B2948

2-1/4" FLEX HOSE P/N H1077

3" HOSE CLAMP P/N H1074

2-1/4" HOSE CLAMP P/N H1076

CEILING LINE

CEILING LINE

CEILING TRIM T9713

ACRYLIC TO PVC ADAPTER #T9704 OR ACRYLIC TO METAL ADAPTER #T9703

CLEAR ACRYLIC TUBES

PRIVACY AUDIO HANDSET

CAMERA

HA1000 CUSTOMER UNIT

41"

$50\frac{1}{8}$"

HA1000 Customer Unit Side View

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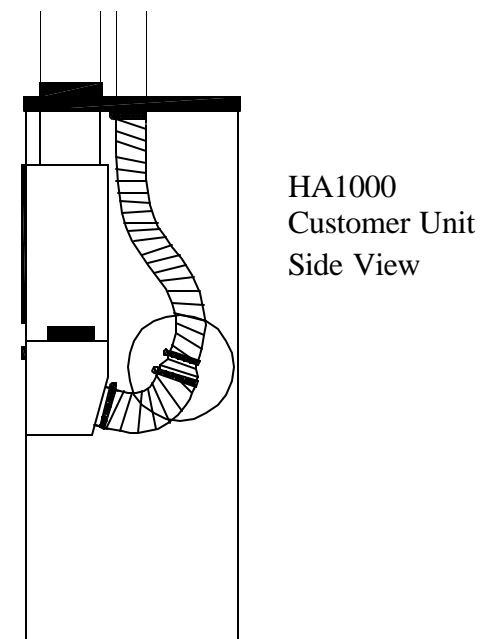
HA1000 Remote Mounted Turbine Pack Wiring

The "Hurricane" turbine pack has four power cords exiting the pack, two in the top chamber for the pressure motors and two in the lower chamber for the vacuum motors as shown below.

TOP
PRESSURE

BOTTOM
VACUUM

4X4 J-BOX
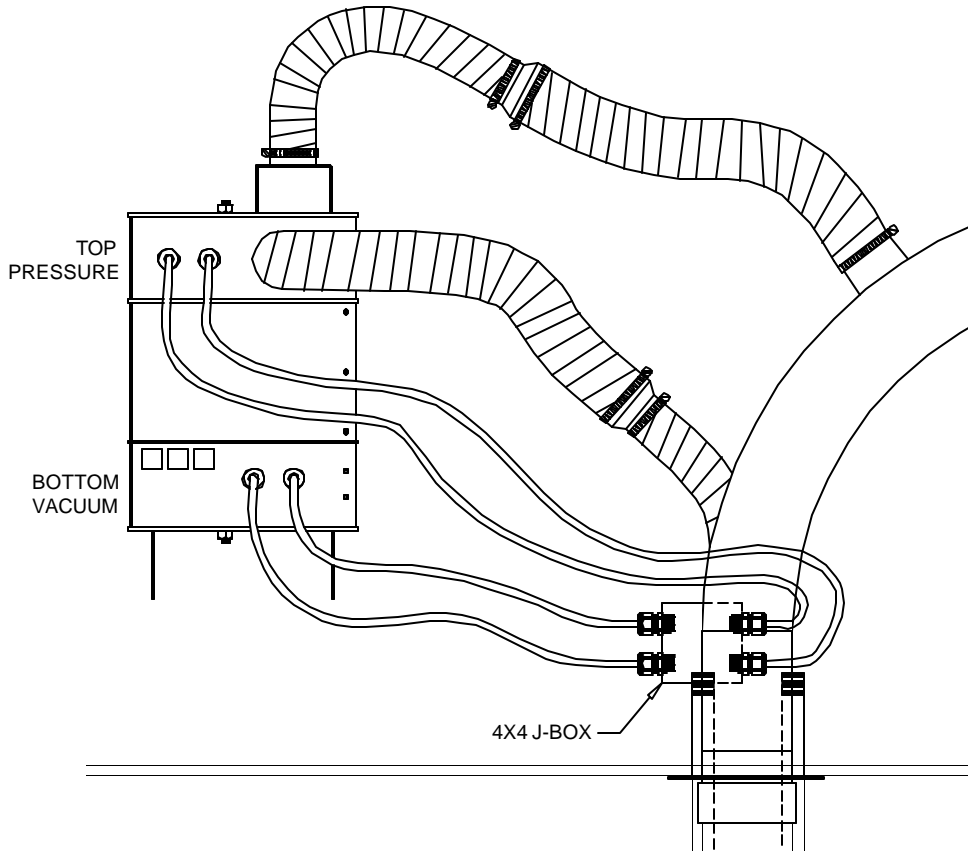
Connect the two black wires from the pressure motors to the red wire running down to the customer control board. Connect the two black wires from the vacuum motors to the black wire running down to the customer control board. Connect all four white wires from all four motors to the white wire running down to the customer control board. Connect all four green wires to the green or bare wire running down to the customer control board.

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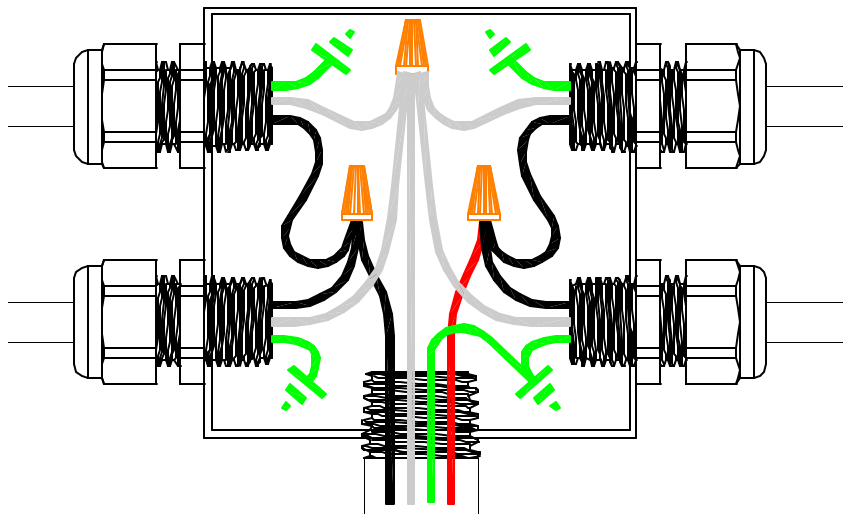
HA1000 Remote Mounted Turbine Pack Wiring

Turbine Power:
The wires connected to the turbine pack located above the canopy ceiling will need to extend down the conduit into the HA1000 customer unit control panel. In the lower corner of the control panel you will need to locate the terminal strip as shown below. Connect the red wire from the pressure motors to the terminal labeled "Pressure". Connect the black wire from the vacuum motors to the terminal labeled "Vacuum". Connect the white wire from all the motors to the terminal labeled "Neutral". Connect the green or bare wire from all the motors to the terminal labeled "Ground".

VACUUM PRESSURE NEUTRAL NEUTRAL NEUTRAL HOT

GROUND

MAIN POWER SWITCH

20 AMP   3 AMP

120 VOLT 60HZ A.C. 30 AMP

MAIN POWER CONNECTION
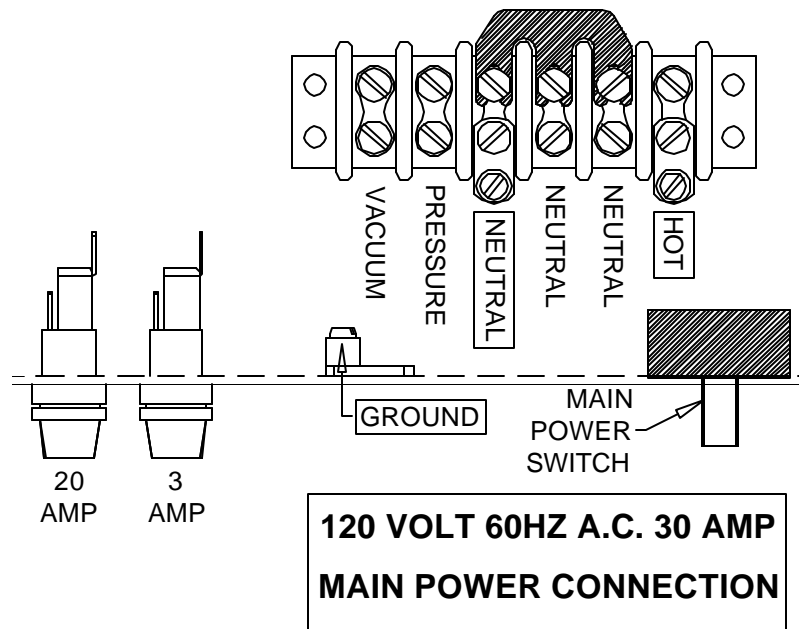
Main Power:
Connect the main power, 120 volt, 60Hz, 30 amp, to the terminal strip located in the HA1000 control panel as shown above. Connect the main hot wire to the terminal labeled "Hot". Connect the main neutral wire to the terminal labeled "Neutral". Connect the main ground wire to the terminal labeled "Ground".

Note: The main power switch in the HA1000 unit only disconnects the power from this main terminal strip to the rest of the control panel, it does not disconnect power coming from main power panel and connected to the lower terminal strip. A circuit breaker or power disconnect located in the main power panel will need to be switched off to disconnect all power from HA1000 unit.

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Extended Carrier Bumper Kit

RX tube systems are sent with the larger capacity carrier that is blue in color. The HA1000 system requires the carrier bumpers to be lifted so this carrier will operate properly. The extended carrier bumper kit includes all parts necessary to lift both inside and outside carrier bumpers.

STANDARD OHT UNIT

CARRIER BUMPER,
EXTENDED KIT
B6740

OHT SPACER,
BUMPER CARRIER
B6739

HA1000 OVERHEAD
CUSTOMER UNIT

PLUNGER, CARRIER
STARTER
HAW 034-001

CARRIER BUMPER,
RE-USE BUMPER
FROM HA1000 UNIT
B4123

SCREW, 10-32 x 3/8"
H0234

SPACER, CARRIER
BUMPER FOR HA1000
CUSTOMER UNIT
B6738
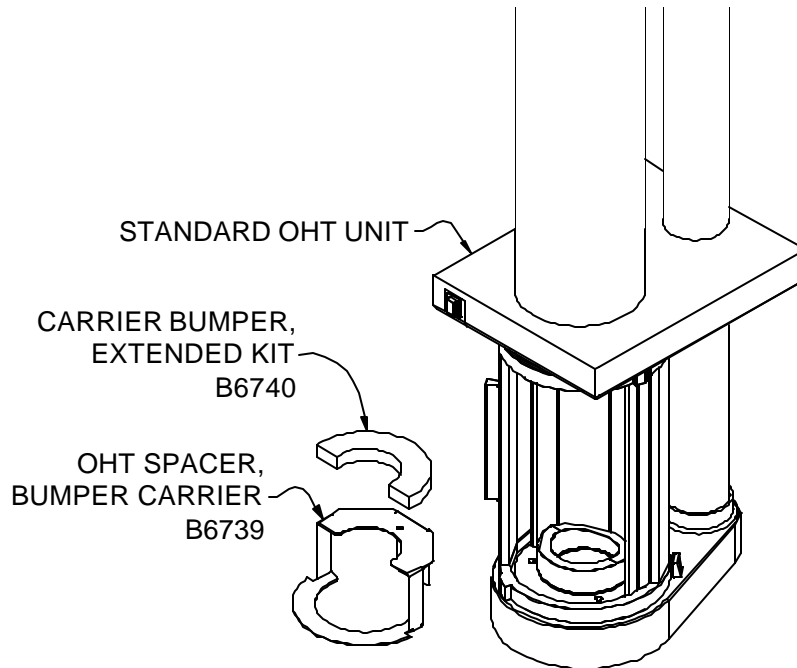
Installation instructions:

OHT Interior Unit

Kit includes metal bumper spacer and new bumper. Existing bumper remains in place.

1) Attach new carrier bumper to the extended metal frame with adhesive strip on back.

2) Attach bumper metal frame to inside OHT unit with adhesive strip on bottom of frame. Extended bumper frame fits around existing bumper and flap without removal.
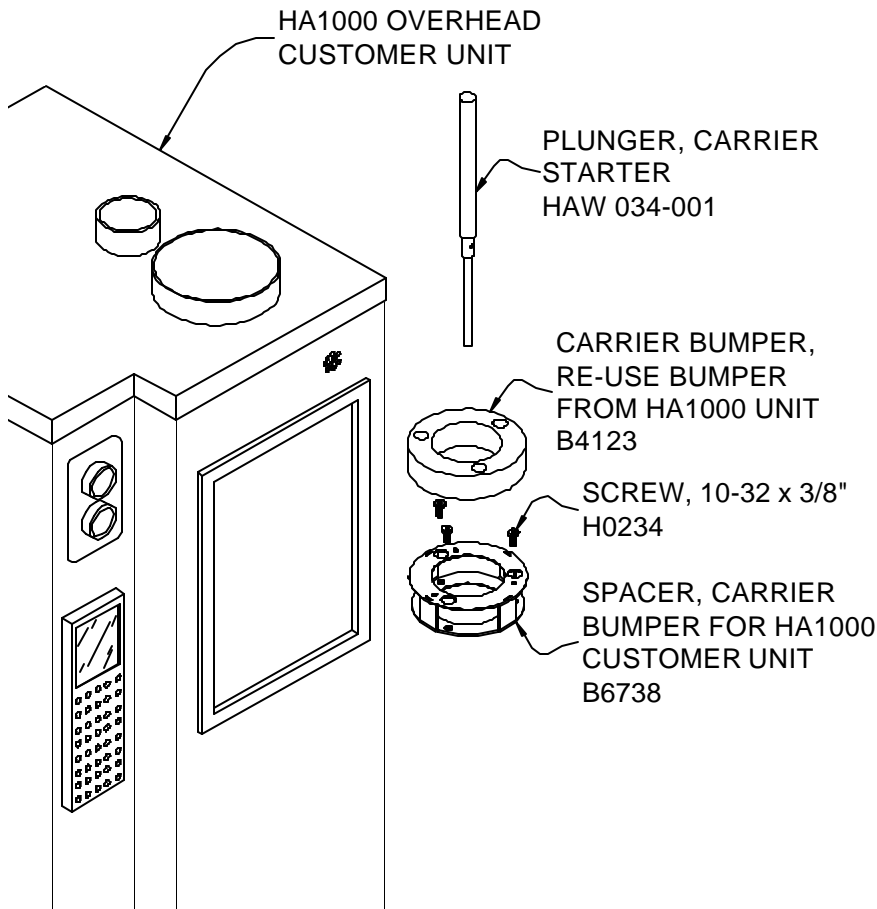
HA1000 Customer Unit

1) Remove carrier starter plunger from HA1000, and replace with longer plunger supplied in kit.

2) Remove carrier bumper with all hardware and save for step #4.

3) Install metal bumper spacer to existing bumper mounting holes in HA1000 using hardware provided.

4) Reinstall carrier bumper on to new bumper spacer using hardware removed with bumper in step #2.

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CAT5 Interconnect Cable Wiring

The I/O control board system requires an interconnect cable to connect the manual teller unit to the control board located in the customer unit and/or the control board located in the teller unit to the control board located in the customer unit. This cable is a standard category 5 (CAT5) cable, Hamilton part number E0889, and terminated with male RJ-45 connectors on both ends. The connectors should be wired in the straight through design as shown below on both ends. There are commercially available testers that can be used to verify correct connector installation and function.
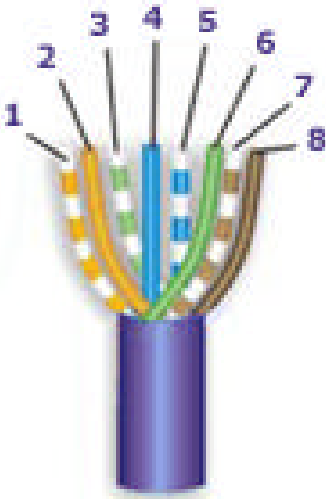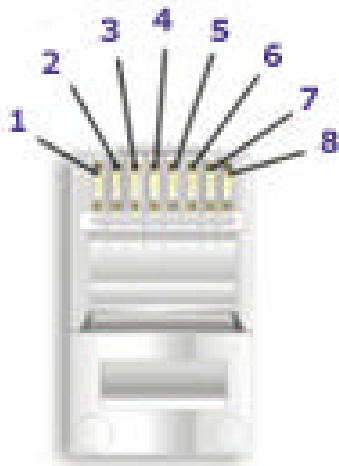
Wire	Pin #	Teller Connections
White/Orange	1	Spare
Orange	2	Teller Nigh Lock
White/Green	3	Teller Carrier Arrival
Blue	4	Teller Recall
White/Blue	5	Door Closed / Teller Send
Green	6	Common
White/Brown	7	RS485 A
Brown	8	RS485 B

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Video Power Control Cable Installation

The E10036 video power control cable will be used to trigger the secure cabinet door operation along with video monitor power. E10036 cable has a three pin connector for connection with terminal #J15 on the E0873 I/O control board located in the HA1000 customer unit. The two pin connector on the opposite end of the E10036 cable connects to J3 on the E0883 relay board located on the back of the LCD monitor. Note, this cable does not power the secure enclosure door or video monitor, it only triggers the control relays. The power for the door motor and video equipment is supplied from a separate 5.5amp 12VDC power supply. See pages 21 and 22 for additional details.

Operation: video power will be controlled with the pneumatic units nightlock switch. When the unit is in normal operating mode, the rx-cc01 secure cabinet door should be powered open, and the video monitor on. Switching to nightlock mode will automatically close the secure enclosure and shut down the pneumatic tube lane.

IMPORTANT
DO NOT USE TRIGGER INPUTS
WHEN E10036 VIDEO POWER
CONTROL CABLE IS CONNECTED

I/O CONTROL BOARD
LOCATED IN HA1000
CUSTOMER UNIT
PART NUMBER E0873

VIDEO POWER CONTROL CABLE
PART NUMBER E10036

VIDEO POWER RELAY BOARD
LOCATED ON REAR OF LCD MONITOR
INSIDE SECURE CREDIT CARD ENCLOSURE
PART NUMBER E0883

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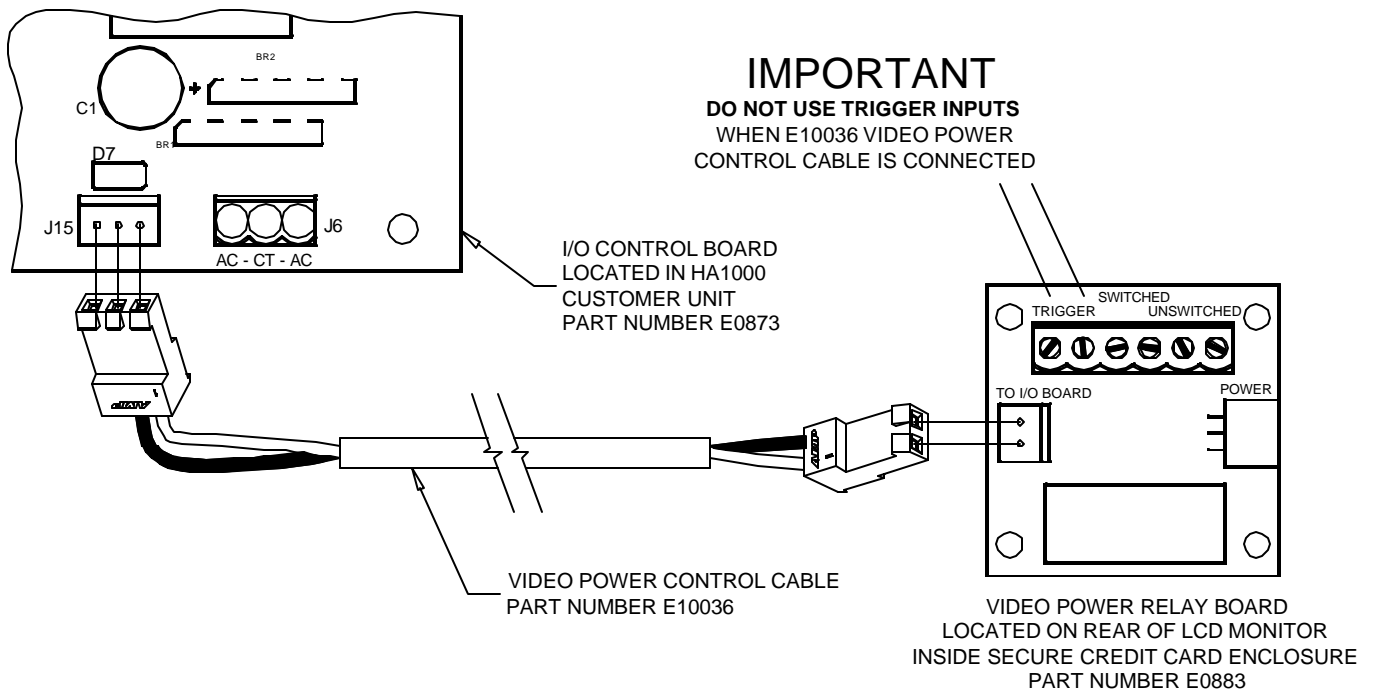
HA1000 Blower Run-Time Set Procedure

The "blower run time" is set using switch number one (SW1), which is located on the control board in the customer unit. The unit is shipped with a default time stored of about 3 seconds. This procedure will overwrite any existing times set in system. This time can be reset as often as necessary. **Power failure will <u>NOT</u> affect the times stored.**

To restore default blower run times:
1) Turn power "OFF" to unit.
2) Turn SW1 "ON".
3) Turn power "ON" to unit.
4) Return SW1 to "OFF".
5) Default blower run time is restored.

The blower run time can be set with both directions of carrier travel using the same time or in a three stage cycle. The three stage cycle includes individual times for the two directions of carrier travel along with a third time for the carrier to free fall in the clear acrylic tube after the blowers stop and before the customer door opens.

Setting procedure for blower run time. (Single time for both directions)
1) Restore default times as described above.
2) Before beginning, the carrier must be in customer unit with customer door open.
3) Turn SW1 to the "ON" position. (LED indicator will light)
4) Push and hold either "Customer Send" or "Teller Recall" button until carrier arrives in the teller unit. Releasing button stores the time for this cycle.
   ●**Note:** For systems with carrier arrival switches at both ends, when the carrier arrives at the teller unit and activates the carrier arrival switch, the blowers will automatically turn off.
5) Turn SW1 to the "OFF" position to store the cycle time for both directions.
   ●**Note:** For systems with carrier arrival switches at both ends, the system will now run until it arrives and activates the carrier arrival switches at both customer and teller.

Setting procedure for blower run time. (Three stage cycle time)
1) Before beginning, the carrier must be in customer unit with customer door open.
2) Turn SW1 to the "ON" position. (LED indicator will light)
3) Push and hold either "Customer Send" or "Teller Recall" button until carrier arrives in the teller unit. Releasing button stores the time for this cycle.
4) Push and hold either "Teller Send" or "Teller Call" button until carrier arrives in the clear acrylic tube on the customer unit. Releasing the button stores the time held for this cycle. (Turbines will shut off, customer door stays closed)
5) When carrier lands in customer unit, press and release "Teller Call" button to open the door. This stores a third time for carrier free fall time in the clear acrylic tubing.
   Turn SW1 to the "Off" position for normal operation.

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Night Lock Switch on Over Head Teller

Night lock operation.

 The night lock function is used to turn the lane off for the night or whenever the lane will not be used. The night lock function will close the customer unit and call the carrier inside, if needed, to prevent outside use of the lane. If there is a video monitor connected to the control circuit using Hamilton cable #E10036, the night lock function will also turn the video monitor off for this lane. Note, if multiple lanes are installed, each lane will have its own separate night lock switch.

Night lock switch
located under recall button.

The night lock switch is shown pushed to the back which is the normal run position.

Pulling the switch forward will put the lane in the night lock mode.

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HA1000 Control Board Connections

AUDIO CONNECTION

- 1
- 2
- 3
CALL FOR SERVICE - 4
CALL FOR SERVICE - 5
- 6
- 7

J3 INPUTS
DOOR SAFETY (NC) - 1
COMMON - 2
CALL FOR SERVICE (NO) - 3
COMMON - 4
CUSTOMER SEND (NO) - 5
COMMON - 6

J4 INPUTS
DOOR AUTO-CLOSE - 1
COMMON - 2

J2 INPUTS
DOOR OPEN SWITCH (NO) - 1
COMMON - 2
DOOR CLOSE SWITCH (NO) - 3
COMMON - 4

SWITCHES
SWITCH 1
SWITCH 2
SWITCH 3

AUDIO

J8 - RJ45
INTERCONNECT

J4   J3   J2

Carrier Recall

J7 OUTPUTS
NOT USED - 1
PRESSURE - 2
DOOR CLOSE - 3
NOT USED - 4
HOT, BLOWER MOTORS - 5
HOT, DOOR MOTOR - 6
NOT USED - 7
VACUUM - 8
DOOR OPEN - 9

J15

VIDEO POWER CONTROL
TRIGGER
TRIGGER

POWER INPUT
24 VAC
CENTER TAP
24 VAC

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Pharmacy Audio Handset Mounting

The pharmacy drive-up audio consist of a customer phone handset unit with a microphone and speaker mounted in the phone enclosure. The phone enclosure should be mounted as shown below so that the handset will be within easy reach of the customer from their vehicle.

Attached phone enclosure to side of HA1000 front panel using screws provided in phone handset kit.

Feed wires from phone enclosure into the HA1000 customer unit so connections can be made as explained in this manual.

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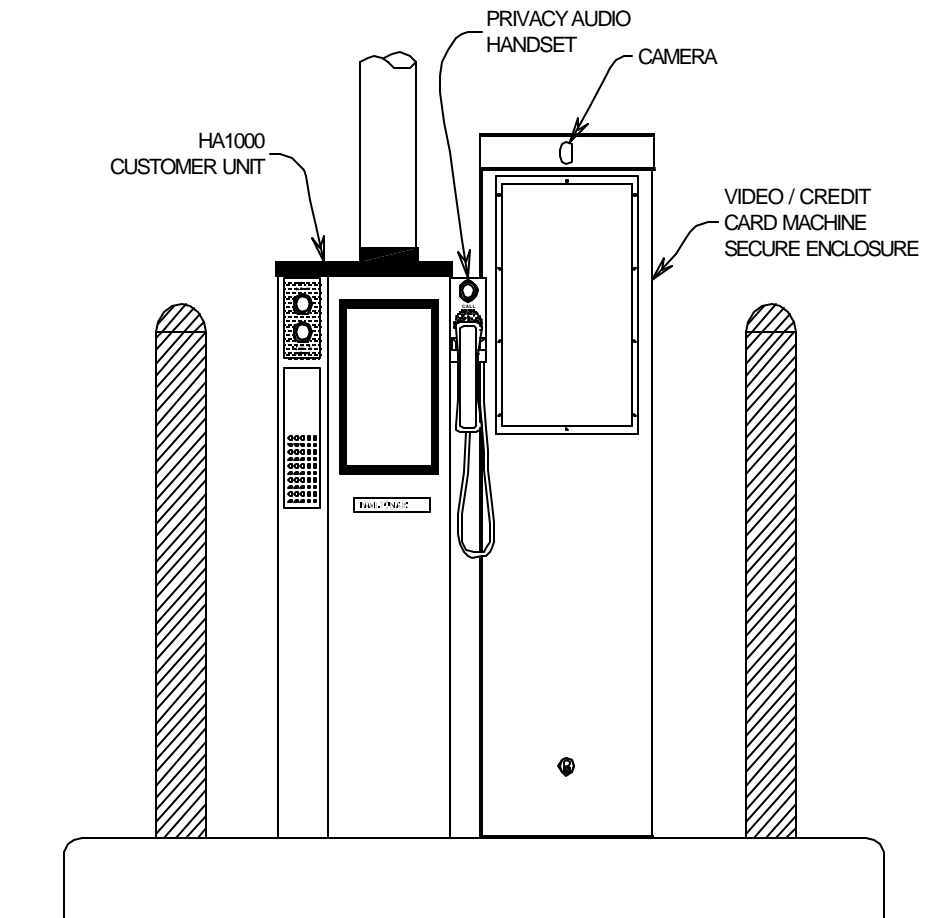
Pharmacy Audio Handset Connections

The phone requires a single CAT5 cable from the customer unit to inside under the pharmacy counter. The pharmacy Tell-Com provider will supply a properly formatted jack for the connection of this cable under the pharmacy counter. Install an RJ-45 connector to the audio CAT5 cable under the pharmacy counter using the T568B configuration as shown in the chart below. Inside the HA1000 customer unit, connect the CAT5 cable to the phone handset red and green wires also shown below. Connect the call circuit from the HA1000 to the phone handset black and white wires as shown below.

PHONE HANDSET WIRING				
PHONE HANDSET	CAT5 WIRE	PIN #	PBX FUNCTIONS	RJ45 CONNECTOR
	WHITE / ORANGE	1		1 2 3 4 5 6 7 8
	ORANGE	2		
	WHITE / GREEN	3		
RED	BLUE	4	RING	
GREEN	WHITE / BLUE	5	TIP	
	GREEN	6		
	WHITE / BROWN	7		
	BROWN	8		

CAT5 CABLE FROM HA1000
CUSTOMER PHONE HANDSET
TO RJ-45 CONNECTOR UNDER
PHARMACY COUNTER

TO PHONE HANDSET

N/A — 1
N/A — 2
N/A — 3
RED — 4
GREEN — 5
N/A — 6
N/A — 7
N/A — 8

- 1
- 2
- 3
BLACK — CALL FOR SERVICE - 4
WHITE — CALL FOR SERVICE - 5
- 6
- 7

AUDIO CONNECTION

HA1000
CUSTOMER UNIT
CONTROL BOARD

J13

J8

JP1

J12

Teller Call
Mic Mute
Power
Switch 3
OFF

Outputs
Door Open
Door Close
Pressure
Vacuum

Carrier Recall

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Pharmacy Audio Handset Mounting on Transaction Drawer

Note: Before installing audio system, install ground wire as shown from ground lug on power panel inside DCD-18 drawer up to the right side stainless steel panel where the new audio phone handset will mount. The phone requires a single CAT5 cable from the customer unit to inside under the pharmacy counter. The pharmacy Tell-Com provider will supply a properly formatted jack for the connection of this cable under the pharmacy counter. Install an RJ-45 connector to the audio CAT5 cable under the pharmacy counter using the T568B configuration shown previously. Inside the DCD-18 transaction drawer unit, connect the CAT5 cable to the phone handset red and green wires also shown previously. Connect the call circuit from the DCD-18 transaction drawer to the phone handset black and white wires.

Remove the original microphone cover grill from the DCD-18 right side. Push up on grill while pushing in retainer using small tool to release. New phone handset audio mounts in same manner.

Install ground wire from DCD-18 right side stainless steel to ground lug located on power panel inside DCD-18. Make sure grounded power cable is plugged into a properly grounded power outlet.
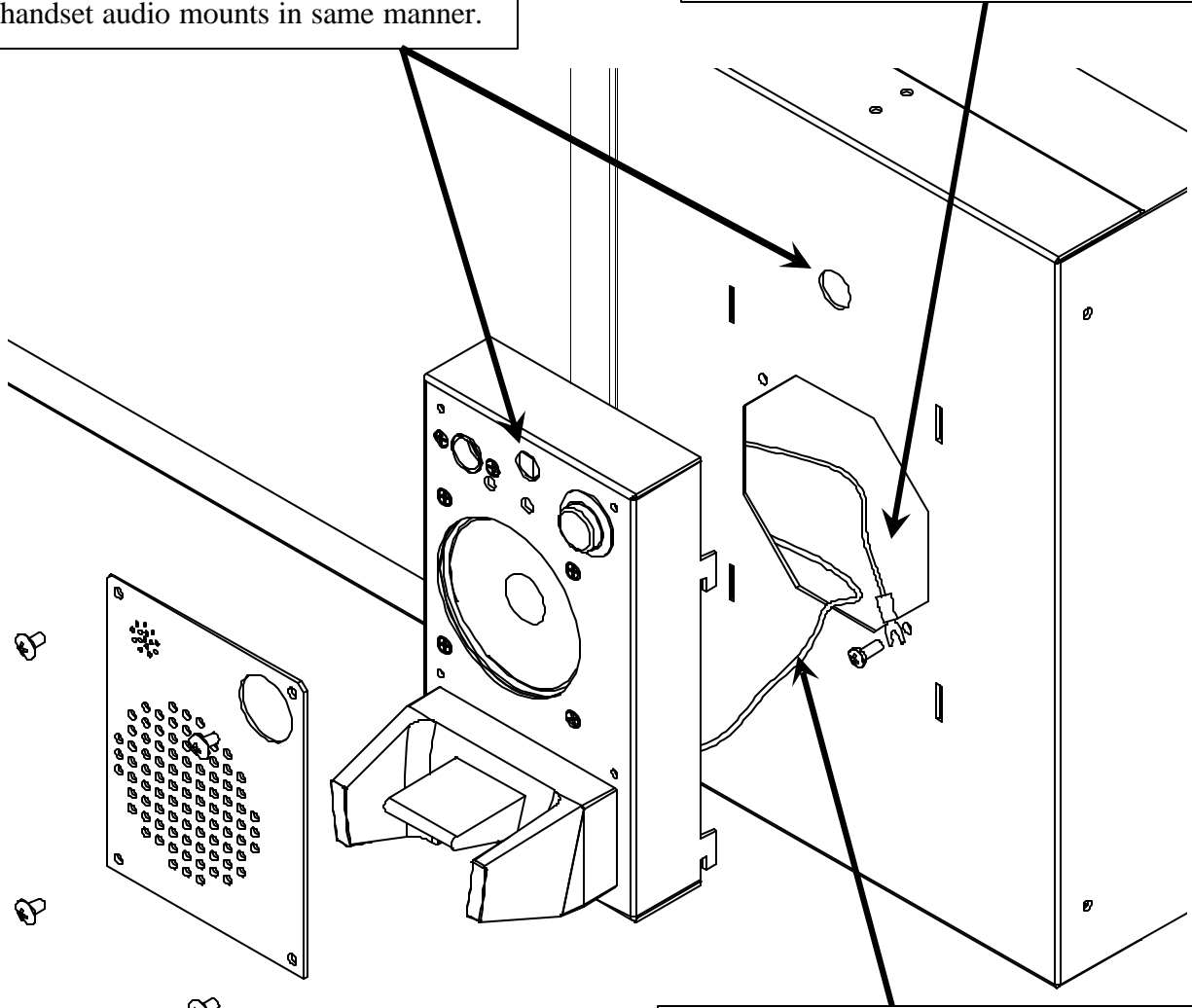
Route wires from handset audio through opening in DCD-18 into drawer for connection described above.

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RX-CC01 Video / Credit Card Enclosure

The video / credit card unit (RX-CC01) typically stands to the right side of the HA1000. The RX-CC01 unit is angled approximately 15 degrees towards the customer to ease access. The drawings below show typical installation details.

PRIVACY AUDIO HANDSET

CAMERA

HA1000 CUSTOMER UNIT

MOTORIZED DOOR SHOWN CLOSED FOR NIGHT SECURITY

$50\frac{1}{8}$"

41"

FRONT ELEVATION

HA1000 CONDUIT AREA

RX-CC01 CREDIT CARD SECURE CABINET CONDUIT AREA 6-1/2" DIAMETER

RECOMMENDED GUARD POST 4" DIAMETER BY 36" HIGH ON ALL FOUR CORNERS

10"

4"

14"

$8\frac{1}{2}$"

7"

$14\frac{1}{2}$"

$17\frac{7}{8}$"

48"

18"

10"

6"

30" TYPICAL ISLAND WIDTH

RX-CC01 ENCLOSURE SET WITH 10 TO 15 DEGREE ROTATION FOR EASE OF CUSTOMER USE.

PLAN VIEW

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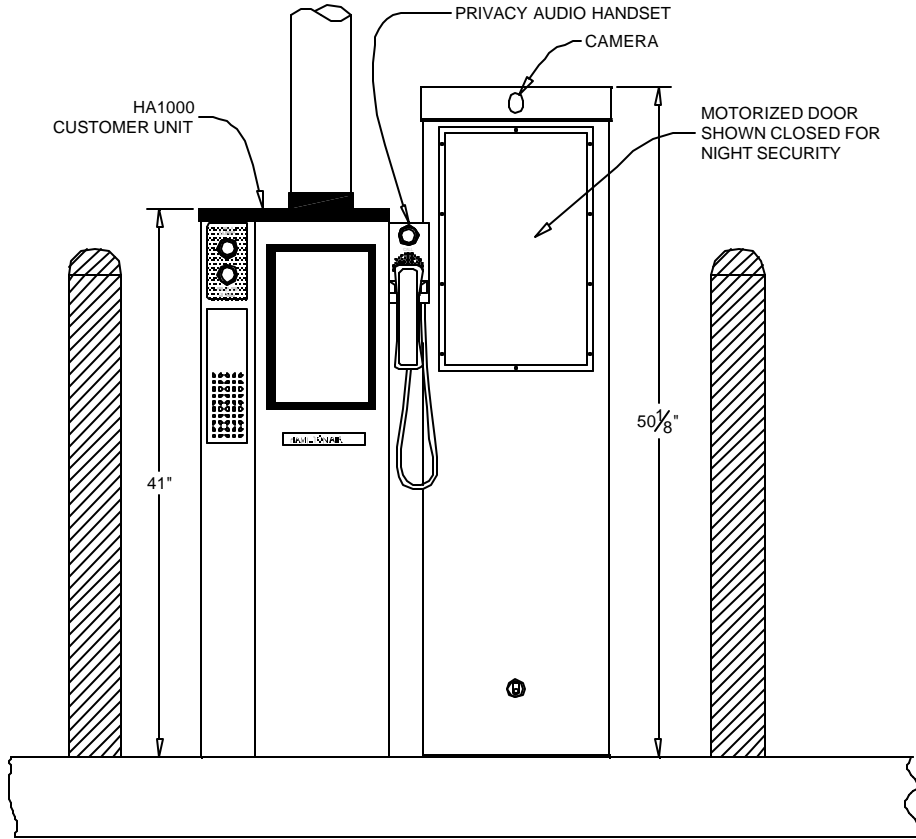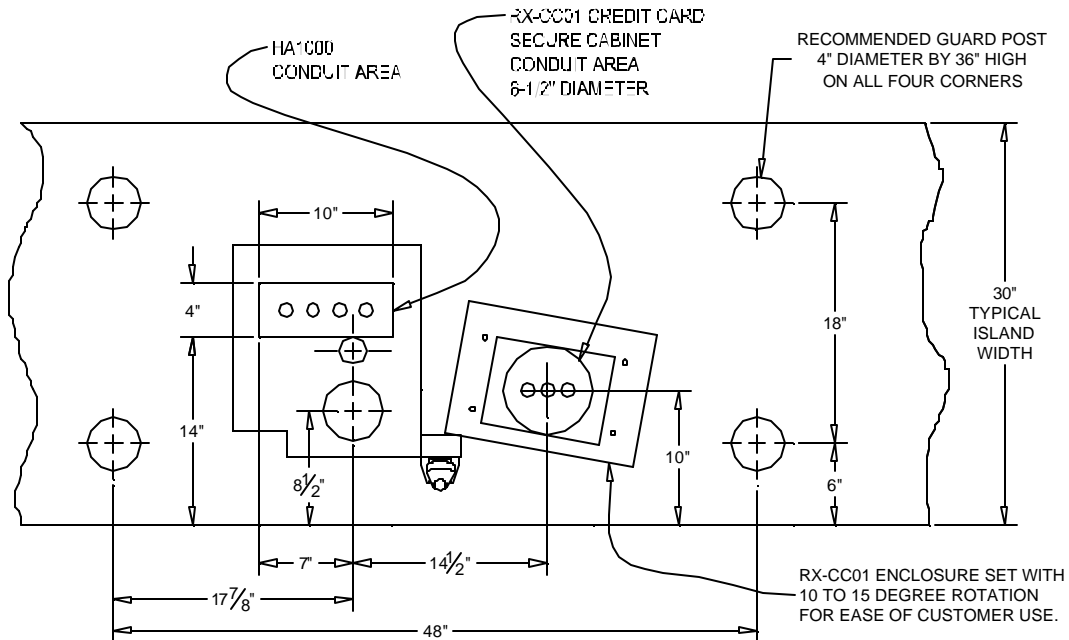
RX-CC01 Video / Credit Card Enclosure

If RX-CC01 and the HA1000 unit will have a barrier located behind, appropriate clearance is needed for installation and service of the machines. The drawings below show recommend clearance.

15" MINIMUM CLEARANCE

36" WITH MIN. REAR CLEARANCE

RIGHT SIDE ELEVATION

36"

12"   24"

54"
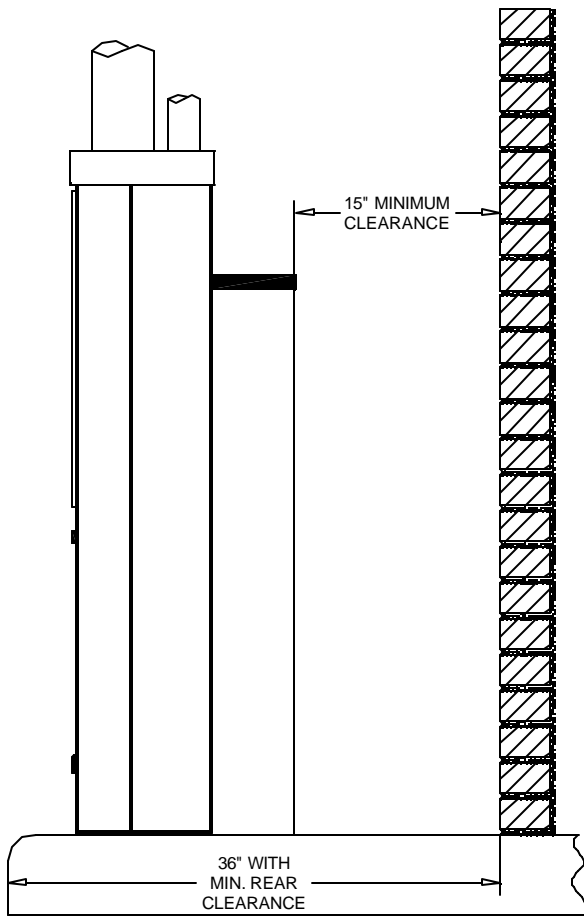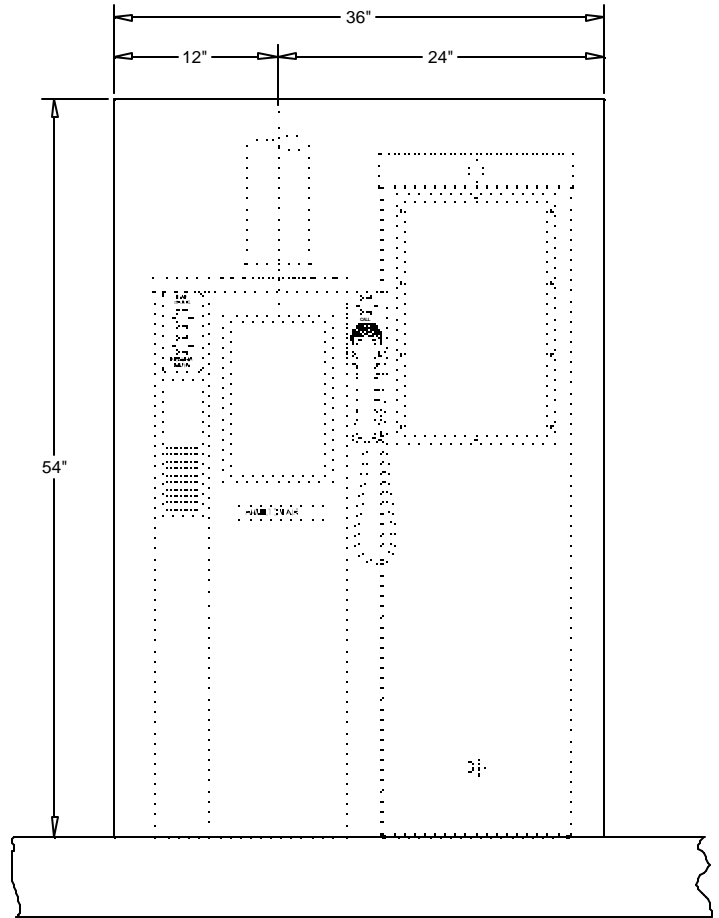
FRONT ELEVATION
SHOWING REAR ACCESS REQUIREMENT IF
OBSTRUCTION IS CLOSER THAN 15" TO REAR OF UNIT

Rear access requirements
The RX-CC01 and HA1000 require access to all sides for service and installation. A minimum clear distance to all sides of the RX-CC01 and HA1000 units is 15".

Rear access may be required if obstruction, such as wall or wind barrier, is located less than 15" from rear of the RX-CC01 or HA1000 customer unit.

Rear access can be a removable section or service door to allow access to the rear of the remote units during installation and/or service. Minimum size of this rear access shown above 54" high x 36" wide.

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VeriFone Credit Card Machine Connections

Install the VeriFone model MX760 credit card machine (Supplied by Others) into secure enclosure using 4x12mm screws provided. Install RJ-45 connector onto the CAT5 cable using the T568B standard configuration. When VeriFone credit card machine powers up, you should see "Welcome" screen on VeriFone LCD display.
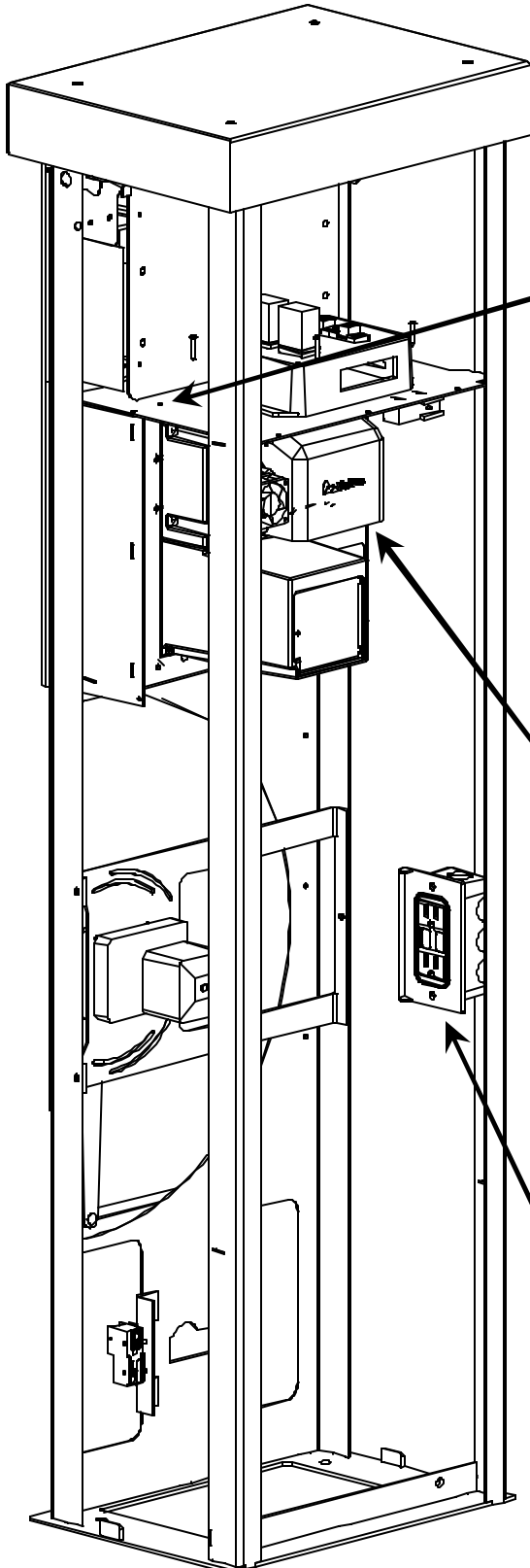
Remove the DIN rail clip from bottom of Rhino power supply. Use the screw removed from power supply to mount the power supply to existing hole in plate next to enclosure control panel.

Connect CAT5 cable for Verifone credit card machine to "Ethernet" port shown below.

Connect Rhino power supply to the "Power In" plug shown below.
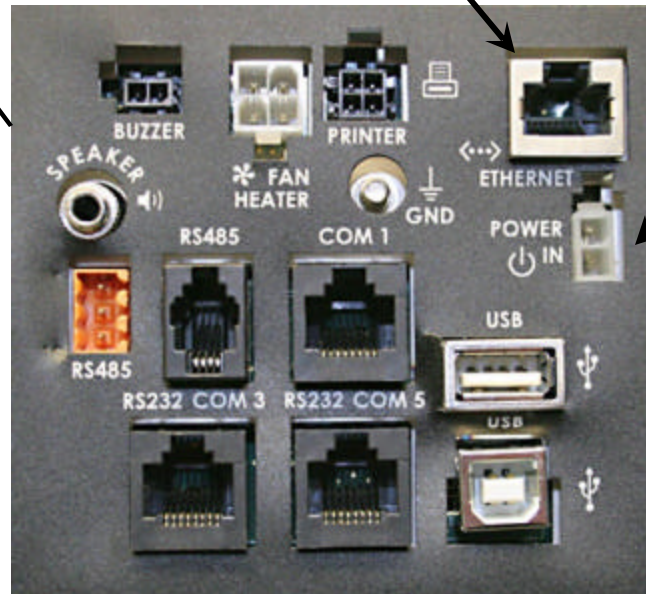
Connection panel on VeriFone MX760

Electrician should connect 120 volt 60 Hz electric to this outlet. The outlet will be used to power the credit card machine power supply and the video power supply only. Full load 3 amps typical..

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RX-CC01 Video Power Connection

The RX-CC01 has an electrical control panel located in the rear of the unit behind the LCD monitor. This panel has one(1) relay and two(2) connectors on its top.

The connector labeled 12VDC Power requires an E0736 5.5amp 12VDC power supply to be connected. This supply will power the camera, LCD monitor, and the door motor in the RX-CC01 enclosure.

The connector labeled Alarm is used for optional alarm monitoring of the cabinet cover panels.

The video power control cable (E10036) has a three pin connector for connection to terminal #J15 on the E0873 I/O control board located in the HA1000 customer unit. The two pin connector on the opposite end of the E10036 cable connects to J3 on the E0883 relay board located on the back of the LCD monitor.

Operation: video power will be controlled with the pneumatic units nightlock switch. When the unit is in normal operating mode, the RX-CC01 cabinet door should be powered open, and the video monitor powered ON. Switching to nightlock mode will automatically close the RX-CC01 enclosure door and shut down the pneumatic tube lane by sending the carrier to the inside terminal.

IMPORTANT
DO NOT USE TRIGGER INPUTS
WHEN E10036 VIDEO POWER
CONTROL CABLE IS CONNECTED

I/O CONTROL BOARD
LOCATED IN HA1000
CUSTOMER UNIT
PART NUMBER E0873

VIDEO POWER CONTROL CABLE
PART NUMBER E10036

VIDEO POWER RELAY BOARD
LOCATED ON REAR OF LCD MONITOR
INSIDE SECURE CREDIT CARD ENCLOSURE
PART NUMBER E0883

ELECTRICAL CONTROL PANEL
LOCATED INSIDE RX-CC01 SECURE
CREDIT CARD / VIDEO ENCLOSURE

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RX-CC01 Video Power Connection

Video Power Relay Board
Part Number E0883

Monitor Video Input
BNC Adapter in top
RCA (Yellow) Jack
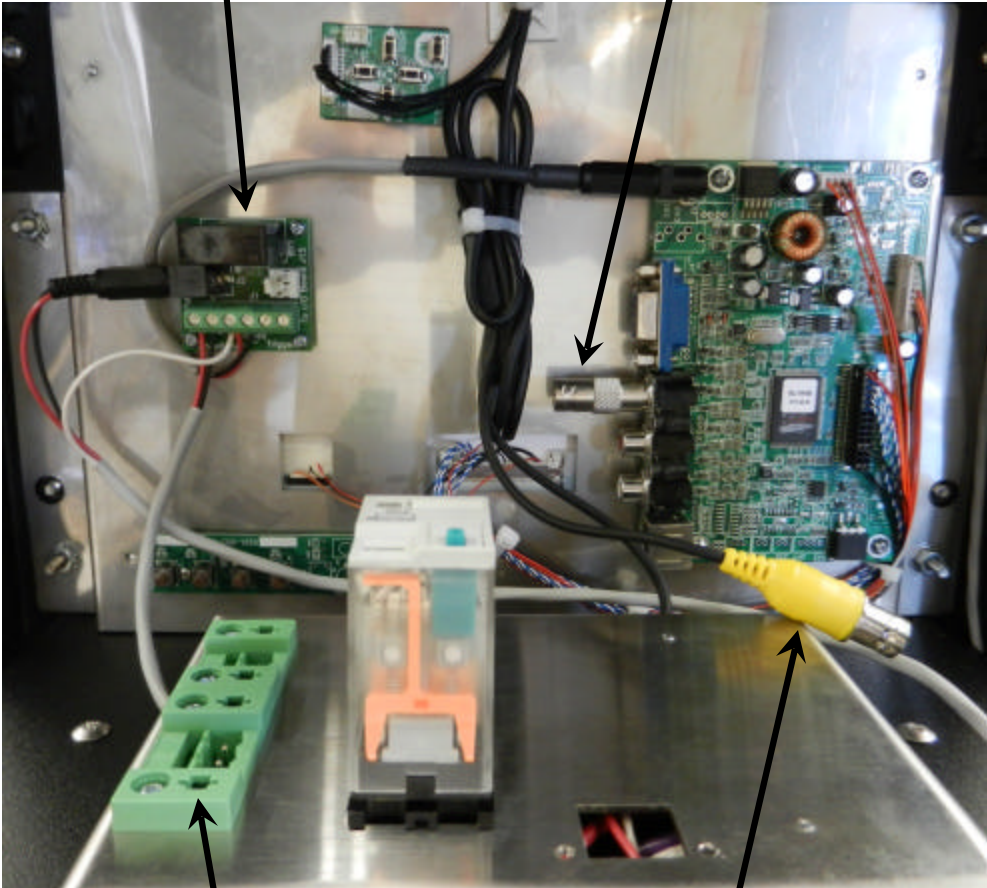
Green Connectors
12VDC Power and
Alarm Connections

Camera Video Output
Yellow BNC on Cable

HAMILTON AIR.

RX-IR01 IR Vehicle Detection Kit

The RX-IR01 IR Vehicle Detection Kit includes an Optex LX-402 IR sensor, electronic chime, 12VDC power supply, and 3 conductor 18 gauge cable.

The IR sensor should be mounted over the drive-up lane(s) so it picks up any vehicle entering the lane(s) for service. The detector can be set and masked off so it only detects the traffic in the lane(s) and not people walking or vehicles driving close by.

NOTE: SET PHOTOCELL TO "DAY" SETTING FOR 24 HOUR OPERATION.

NORMAL

NIGHT   DAY

INFRARED DETECTOR
#LX-402

INFRARED DETECTOR MOUNTED
TO CANOPY SUPPORT COLUMN
OR CANOPY CEILING CENTERED
OVER DRIVE LANE(S)

+   '   NC   COM   NO

NOT USED

NOTE: FIELD INSTALLED
JUMPER BETWEEN "COM"
AND "NEG" TERMINALS

RED   BLACK   WHITE

12VDC
POWER SUPPLY
#E0884

3 CONDUCTOR 18 GA. CABLE CONNECTING
CHIME/POWER SUPPLY TO THE PIR

+   RED

−   BLACK

RED   BLACK   BLUE

ELECTRONIC CHIME #PC-100
LOCATED UNDER COUNTER OR
NEAR OPERATOR WORK STATION

HAMILTON AIR.

5550 Pharmacy Video Console

The pharmacy video console is sent with a wall mount bracket and a desk pedestal. The best type of mount can be used depending on the setup of the pharmacy counter and space around pneumatic tube system. Determine the best location or check with local pharmacy personnel for desired location.
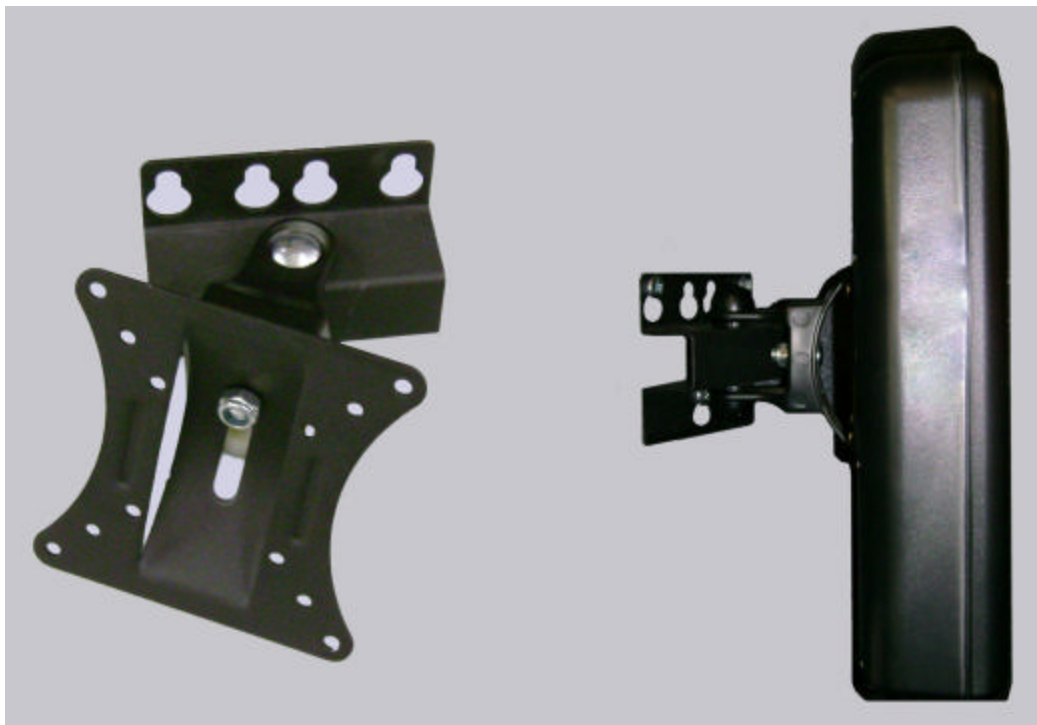
HAMILTON AIR.

HAMILTON AIR
FAIRFIELD, OHIO

PLAN VIEW

14"
4"
17 7/8"
7"
8 1/2"
10"
48"
14 1/2"

HA-CU
CONDUIT AREA

RX-CC01 QUTLET CARD
SECURE CABINET
CONDUIT AREA
6-1/2" DIAMETER

10"
18"
6"
30" TYPICAL ISLAND WIDTH

RX-CC01 ENCLOSURE SET WITH
10 TO 15 DEGREE ROTATION
FOR EASE OF CUSTOMER USE.

RECOMMENDED GUARD POST
4" DIAMETER BY 36" HIGH
ON ALL FOUR CORNERS

FRONT ELEVATION

HA1000 CUSTOMER UNIT
41"
50 5/8"

PRIVACY AUDIO HANDSET
CAMERA
MOTORIZED DOOR
SHOWN CLOSED FOR
NIGHT SECURITY

RIGHT SIDE ELEVATION

SCHLAGE CHANGEABLE
CORE KEY LOCK
ACCESS COVER FIT WITH
TAMPER/ALARM SWITCH

36" WITH
MIN REAR
CLEARANCE
15" MINIMUM
CLEARANCE

FRONT ELEVATION
SHOWING REAR ACCESS REQUIREMENT

54"
12"
36"
24"

REAR ACCESS REQUIRED
IF OBSTRUCTION IS CLOSER
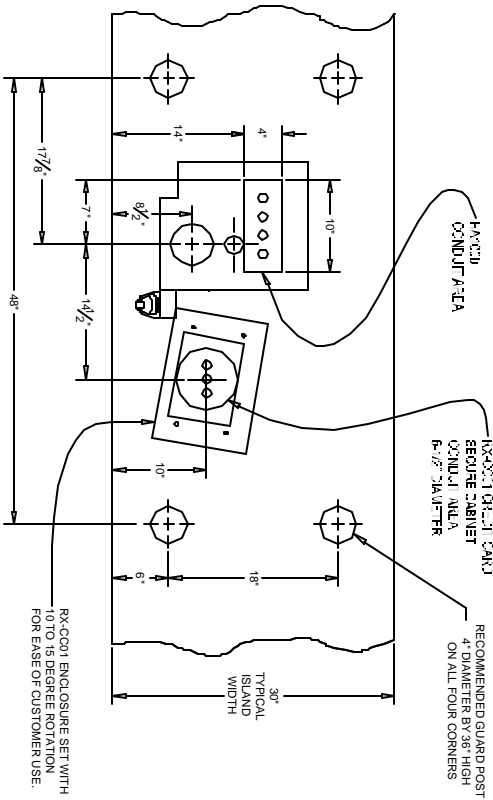THAN 15" TO REAR OF UNIT

HA1000 CONDUITS (ALL 1"Ø)
P1 - POWER, 120VAC 60HZ 30AMP
P2 - POWER, 120VAC 60HZ 15AMP
C1 - TJ BOX UNDER PHARMACY COUNTER
C3 - TO RX-CC01 UNIT

RX-CC01 CONDUIT STAL (1"Ø)
P2 - 120VAC 60HZ 15AMP
C3 - TO HA1000 UNIT
C4 - TJ BOX UNDER PHARMACY COUNTER

HA1000 REAR ACCESS REQUIREMENTS
THE HAMILTON HA1000 REQUIRES ACCESS TO ALL SIDES FOR
SERVICE AND INSTALLATION. A MINIMUM CLEAR DISTANCE TO
ALL SIDES OF THE HA1000 UNIT IS 15 INCHES.

REAR ACCESS MAY BE REQUIRED IF OBSTRUCTION, SUCH
AS WALL OR WIND BARRIER, IS LOCATED LESS THAN 15"
FROM REAR OF HA1000 CUSTOMER UNIT.

REAR ACCESS CAN BE A REMOVABLE SECTION OR SERVICE
DOOR TO ALLOW ACCESS TO THE REAR OF THE REMOTE UNITS
DURING INSTALLATION AND/OR SERVICE. MINIMUM SIZE OF THIS
REAR ACCESS SHOWN ABOVE.

HAMILTON AIR
MODEL HA-1000
UPSEND CUSTOMER UNIT
WITH RX-CC01 DETAILS

Drawing Number: 99-1078
Date: 7/6/10

HAMILTON AIR

HAMILTON AIR

ELECTRICAL CONTRACTOR TO PROVIDE:

· ALL CONDUIT AS DETAILED

· CONDUIT "P1"; 120V, 60Hz, 30 AMP SERVICE TO CUSTOMER UNIT, (20 AMP FULL LOAD)

· CONDUIT "P2"; 120V, 60Hz, 15 AMP SERVICE TO CUSTOMER UNIT, CREDIT CARD CABINET, AND UNDER WINDOW INSIDE.

· CONDUIT "P3"; 120V, 60Hz 20 AMP SERVICE TO UNDER WINDOW INSIDE DEDICATED TO 400DD DRAWER.

· CONDUIT "C1" WITH PULL WIRE FOR LOW VOLTAGE, CONTROL, AUDIO, AND VIDEO CABLES INSTALLED BY OTHERS)

· CONDUIT "C2" WITH PULL WIRE FOR LOW VOLTAGE, CONTROL CABLE INSTALLED BY HAMILTON.

· CONDUITS "C3" WITH PULL WIRE FOR LOW VOLTAGE CONTROL AND VIDEO CABLES INSTALLED BY HAMILTON.

· CONDUITS "C4" WITH PULL WIRE FOR VERIFONE CREDIT CARD MACHINE INSTALLED BY OTHERS.

ADDITIONAL DRAWINGS TO REFERENCE:

- 95-136
- 96-259
- 96-260
- 99-266
- 99-267
- 99-1032

CONDUIT DETAIL

DUPLEX OUTLET UNDER WINDOW

3/4" DIA. FOR 120V, 60Hz. 15 AMP ELECTRICAL SERVICE (BY OTHERS)

CONDUIT "P2"

CONDUIT "C3"

1" DIA. LOW VOLTAGE AND VIDEO

CREDIT CARD / VIDEO SECURE CABINET

CONDUIT "C4"
1" DIA. LOW VOLTAGE FOR VERIFONE CREDIT CARD

CONDUIT "C2"
1" DIA. LOW VOLTAGE FOR AUDIO/VIDEO AND CONTROL

CONDUIT "C1"
1" DIA. LOW VOLTAGE FOR AUDIO/VIDEO AND CONTROL

J1 J4 J2 J5 J3

BUILDING ELECTRICAL SERVICE PANEL.

CONDUIT "P1"
3/4" DIA. FOR 120V, 60Hz, 30 AMP DEDICATED ELECTRICAL SERVICE FOR HA1000 CUSTOMER UNIT. (BY OTHERS)

HA1000 CUSTOMER UNIT ON ISLAND

DUPLEX OUTLET UNDER WINDOW
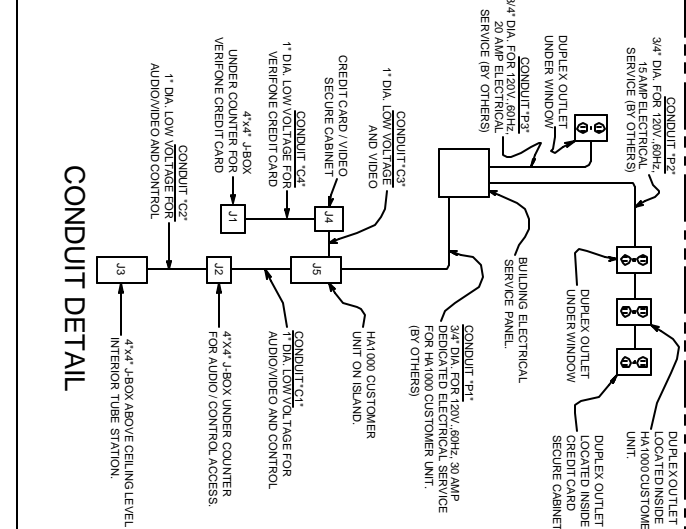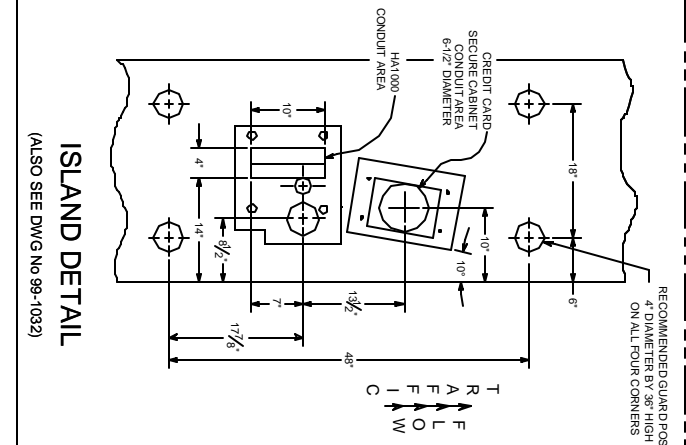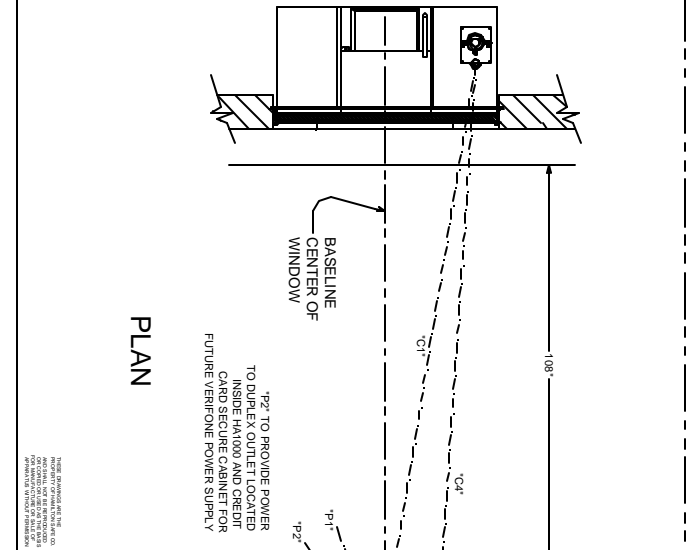
DUPLEX OUTLET LOCATED INSIDE CREDIT CARD SECURE CABINET

DUPLEX OUTLET LOCATED INSIDE HA1000 CUSTOMER UNIT.

4"x4" J-BOX UNDER COUNTER FOR AUDIO / CONTROL ACCESS.

4"X4" J-BOX ABOVE CEILING LEVEL INTERIOR TUBE STATION

3/4" DIA. FOR 120V, 60Hz. 20 AMP ELECTRICAL SERVICE (BY OTHERS)

ISLAND DETAIL
(ALSO SEE DWG No 99-1032)

HA1000 CONDUIT AREA

CREDIT CARD SECURE CABINET CONDUIT AREA 6-1/2" DIAMETER

10" 10" 4" 8½" 14" 18" 7 13½" 17⅞" 43" 6"

RECOMMENDED GUARD POST 4" DIAMETER BY 36" HIGH ON ALL FOUR CORNERS

T R A F F I C   F L O W

INTERIOR ELEVATION
REFERENCE DRAWING: #96-260

6" 3½" TO FINISHED FLOOR 36¼" WALL OPENING 18¾"

INTERIOR FINISHED FLOOR
EXTERIOR DRIVE LEVEL

DUPLEX OUTLET 120V 60Hz 15 AMP (AUDIO & IR DETECTOR)

60½" WALL OPENING
39¾"

15" 12"

"J1" 4"X4" J-BOX FOR VERIFONE CABLE ACCESS.
"J2" 4"X4" J-BOX UNDER COUNTER FOR AUDIO / CONTROL ACCESS.

"P3" "P2" "C4" "C1"

OPENING FOR TUBE PASSAGE (FIELD VERIFY LOCATION)

4"X4" J-BOX ABOVE CEILING LEVEL INTERIOR TUBE STATION

48"

"C2" - J2 TO J3

J3

SECTION
REFERENCE DRAWINGS: #96-259, 99-266, 99-267, 99-1032

38½" TYPICAL

INTERIOR PNEUMATIC TUBE STATION

COUNTER TOP

CEILING TRIM

20" CENTERLINE RADIUS PVC BEND

B.R. LEVEL 1 VISION WINDOW MODEL 035CV

10" 6" 31 1/16"

"C4" - J1 TO J4
"C1" - J2 TO J5

HA1000 PNEUMATIC TUBE CUSTOMER UNIT

CEILING LINE

CLEAR ACRYLIC TUBES

CEILING TRIM

41" HIGH HA1000

48" HIGH SECURE CABINET

5" 6"

CREDIT CARD / TWO-WAY VIDEO SECURE CABINET

PLAN

BASELINE CENTER OF WINDOW

108" 36"

"C1" "C4" "P1" "P2"

"P2" TO PROVIDE POWER TO DUPLEX OUTLET LOCATED INSIDE HA1000 AND CREDIT CARD SECURE CABINET FOR FUTURE VERIFONE POWER SUPPLY

"P2" "C3"

HAMILTON AIR

KROGER DRIVE-UP WITH HA1000, DCD-18, CREDIT CARD SECURE CABINET, AND TWO-WAY AUDIO / VIDEO

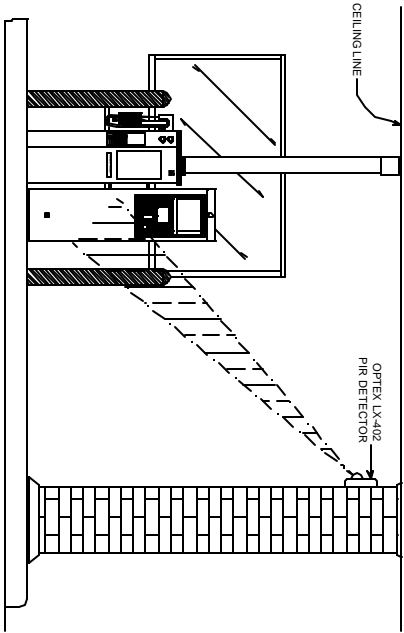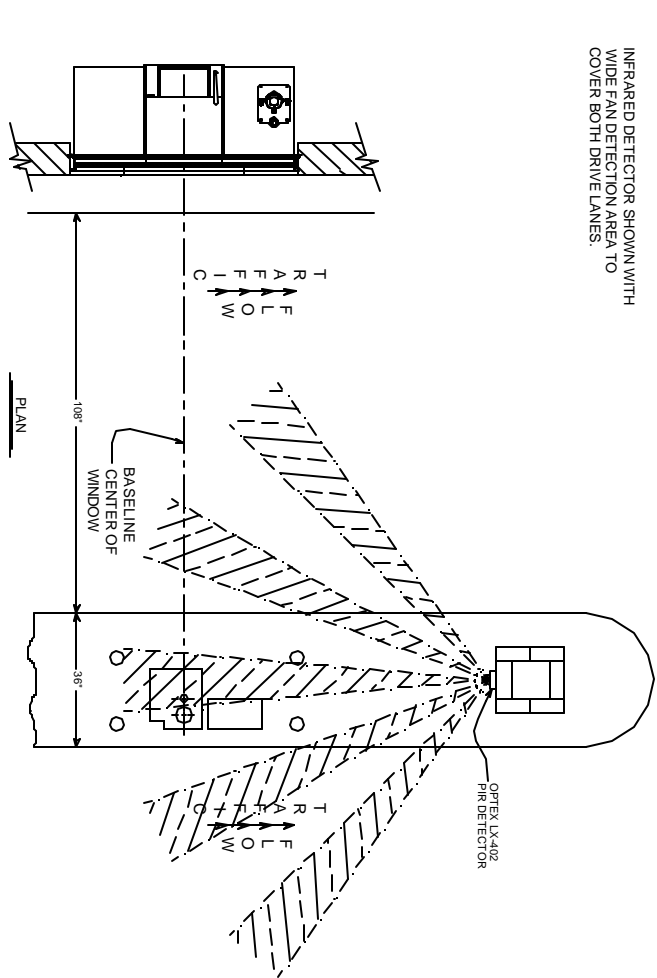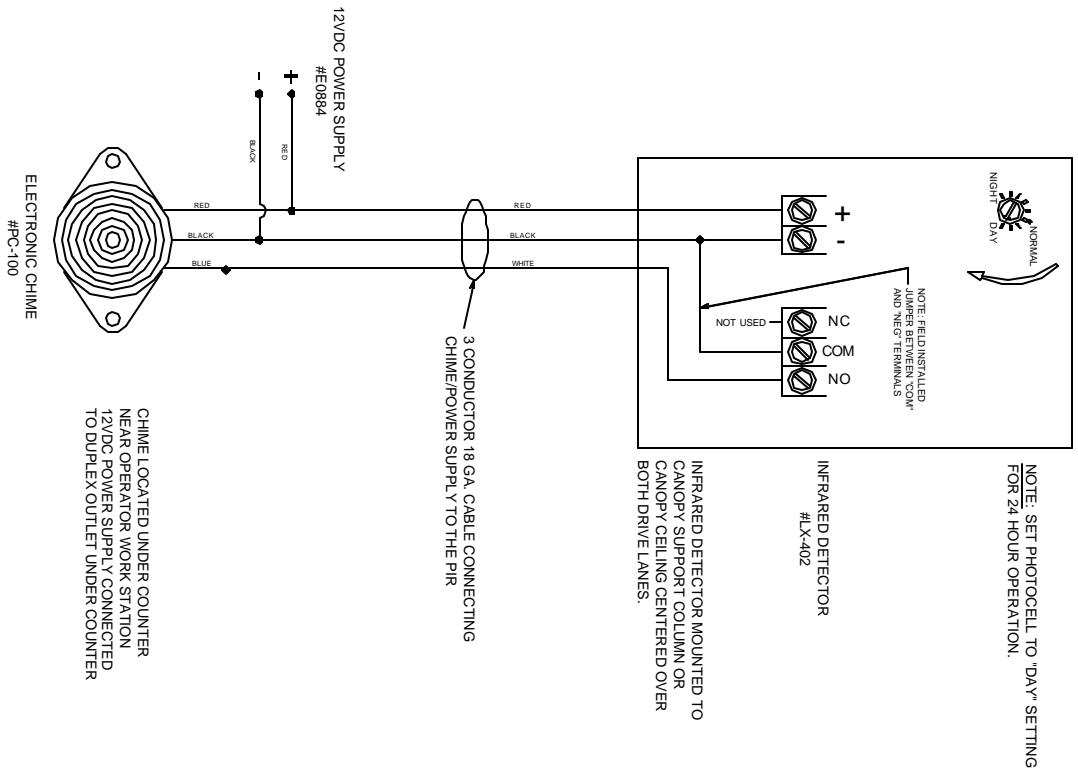|	DATE	
REV-1	DATE: 12/15/09	ROTATED DC ENCLOSURE 180° ON ISLAND
REV-2	DATE: 1/2/11	DCD-18 DRAWER REPLACED 400DD
REV-3	DATE	

Drawing Number: 99-1040   Date : 8/25/2009

HAMILTON AIR

HAMILTON AIR.

12VDC POWER SUPPLY
#E0884

BLACK
RED

ELECTRONIC CHIME
#PC-100

RED — RED
BLACK — BLACK
BLUE — WHITE

3 CONDUCTOR 18 GA. CABLE CONNECTING
CHIME/POWER SUPPLY TO THE PIR

CHIME LOCATED UNDER COUNTER
NEAR OPERATOR WORK STATION
12VDC POWER SUPPLY CONNECTED
TO DUPLEX OUTLET UNDER COUNTER

+
-

NOT USED
NC
COM
NO

NOTE: FIELD INSTALLED
JUMPER BETWEEN 'COM'
AND 'NEG' TERMINALS

NIGHT
DAY
NORMAL

INFRARED DETECTOR
#LX-402

INFRARED DETECTOR MOUNTED TO
CANOPY SUPPORT COLUMN OR
CANOPY CEILING CENTERED OVER
BOTH DRIVE LANES.

NOTE: SET PHOTOCELL TO "DAY" SETTING
FOR 24 HOUR OPERATION.

CEILING LINE

EXTERIOR ELEVATION

OPTEX LX-402
PIR DETECTOR

INFRARED DETECTOR SHOWN WITH
WIDE FAN DETECTION AREA TO
COVER BOTH DRIVE LANES.

PLAN

TRAFFIC FLOW

108"

36"

BASELINE
CENTER OF
WINDOW

TRAFFIC FLOW

OPTEX LX-402
PIR DETECTOR

INFRARED DETECTOR MOUNTED TO
CANOPY SUPPORT COLUMN OR
CANOPY CEILING CENTERED OVER
BOTH DRIVE LANES.

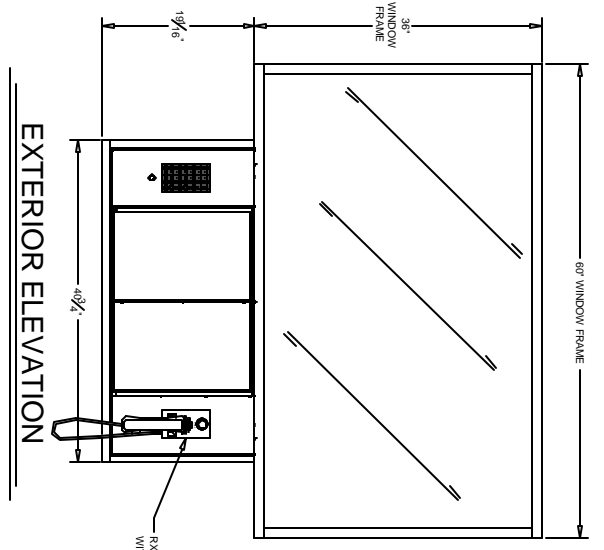| REV-1 | DATE: 1/26/10 | REVERSED TRAFFIC AND IR DIRECTION, DAV |
| REV-2 | DATE: | |
| REV-3 | DATE: | |

HAMILTON AIR

KROGER PHARMACY DRIVE-UP
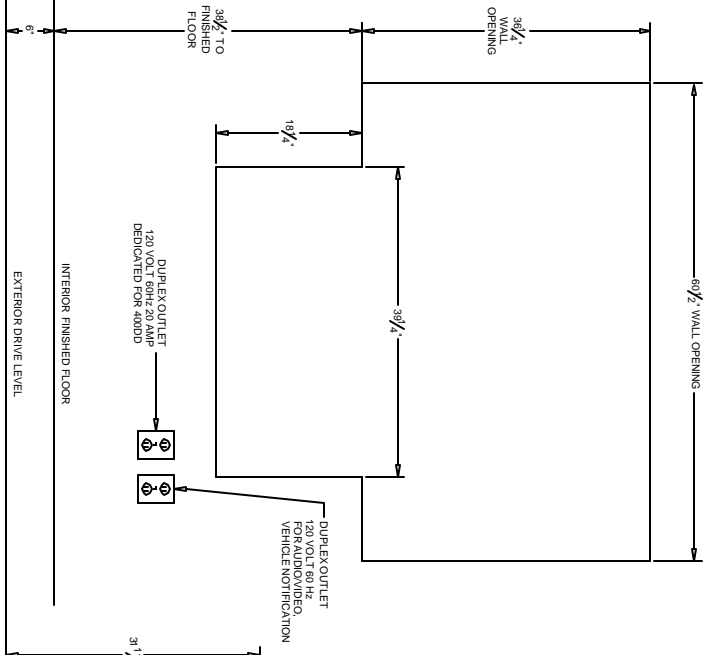PIR VEHICLE DETECTION SENSOR
AND CHIME DETAILS

| Drawing Number: | 99-1049 | Date : 10/16/2009 |

HAMILTON AIR.

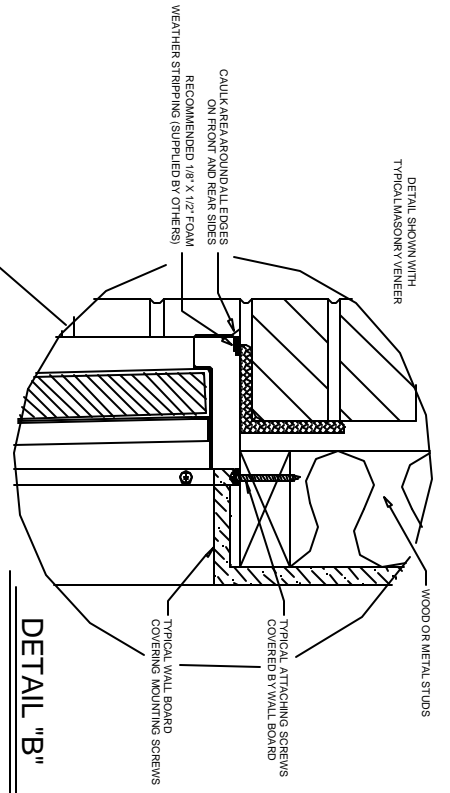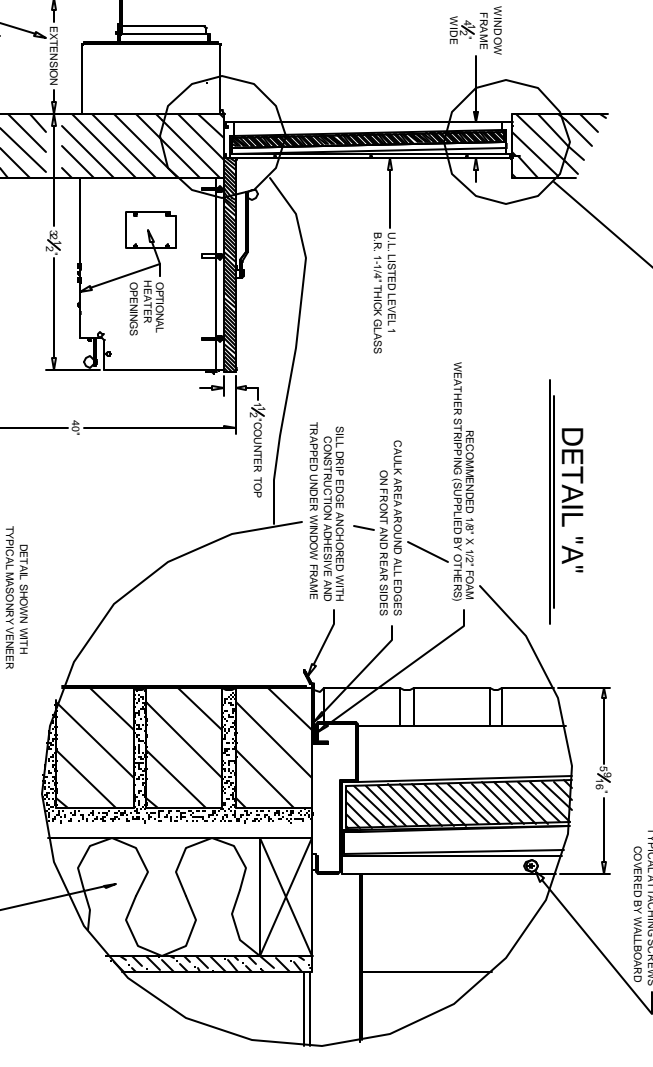## INTERIOR ELEVATION

EXTENSION OF THE TRAY MUST BE ADJUSTED TO 12 1/2" MAXIMUM WITH 10" CURB. DRAWER LIMITS ARE 10 1/4" TO 14 3/4"

EXTERIOR DRIVE LEVEL

INTERIOR FINISHED FLOOR

36 1/2" TO FINISHED FLOOR

6"

36 3/4" WALL OPENING

18 1/4"

39 3/4"

60 1/2" WALL OPENING

DUPLEX OUTLET 120 VOLT 60 AMP DEDICATED FOR 400DD

DUPLEX OUTLET 120 VOLT 60 Hz FOR AUDIO/VIDEO, VEHICLE NOTIFICATION

EXTERIOR ELEVATION

19 1/16"

36" WINDOW FRAME

40 3/4"

60" WINDOW FRAME

RX-HAND01 PRIVACY HANDSET WITH RX-PBX01 PBX CONNECTION

SIDE ELEVATION

REFER TO DRAWING 95-136 FOR FURTHER DETAILS

3' 1/16"

6"

EXTENSION

10"

32 1/2"

40"

WALL THICKNESS MINIMUM 5"

OPTIONAL HEATER OPENINGS

1 1/2" COUNTER TOP

WINDOW FRAME 4 1/2" WIDE

U.L. LISTED LEVEL 1 B.R. 1-1/4" THICK GLASS

DETAIL "A"

RECOMMENDED 1/8" X 1/2" FOAM WEATHER STRIPPING (SUPPLIED BY OTHERS)

CAULK AREA AROUND ALL EDGES ON FRONT AND REAR SIDES

SILL DRIP EDGE ANCHORED WITH CONSTRUCTION ADHESIVE AND TRAPPED UNDER WINDOW FRAME

DETAIL SHOWN WITH TYPICAL MASONRY VENEER

WOOD OR METAL STUDS

5 1/16"

DETAIL "B"

WEATHER STRIPPING (SUPPLIED BY OTHERS)

RECOMMENDED 1/8" X 1/2" FOAM

CAULK AREA AROUND ALL EDGES ON FRONT AND REAR SIDES

DETAIL SHOWN WITH TYPICAL MASONRY VENEER

TYPICAL WALL BOARD COVERING MOUNTING SCREWS

TYPICAL ATTACHING SCREWS COVERED BY WALL BOARD

WOOD OR METAL STUDS

TYPICAL ATTACHING SCREWS COVERED BY WALLBOARD

REVISION 1	1/21/11	DCD-18 DRAWER REPLACED 400DD

HAMILTON SAFE

MODEL RX-SYS04 PHARMACY
3'x5' B.R. LEVEL 1 VISION
WINDOW WITH DCD-18 DRAWER

DATE	DRAWN BY	DRAWING NUMBER	SIZE
AUG. 26 2008		96-364	1 OF 1

HAMILTON AIR

Typical Wiring Detail

Conduit	Junction	Description	Wire
C1	J2 - J5	Audio, system interconnect, video	CAT5 (2), Coax (2)
C2	J2 - J3	System interconnect, PIR	CAT5, 3 Cond.
C3	J4 - J5	Video	Coax (2)
C4	J1 - J4	VeriFone interconnect and power	CAT5, VeriFone Ext. Cable, 2 Cond.

Junction	Conduit	Description
J1	C4	4"x4" junction box located under counter for VeriFone credit card machine connections
J2	C1 & C2	4"x4" junction box located under counter for Audio / Video Connections
J3	C2	4"x4" junction box located above ceiling for interior tube station interconnect
J4	C4 & P2	Secure Cabinet, Credit card and video
J5	C1 & P1	HA1000 Customer Unit

Wire	Conduit	Description	Locations
CAT5	C1	Audio	HA1000 handset to Kroger PBX unit
CAT5	C1 & C2	System interconnect	HA1000 to Interior tube station above ceiling
Coax (2)	C1 & C3	Video, 2-way	Secure Cabinet video to 5550 interior video station
3 Cond.	C2	PIR Vehicle detection	Chime and power supply located under counter to PIR located in canopy
CAT5	C4	VeriFone MX760 (Future)	Secure Cabinet to junction box under counter
2 Cond.	C4	VeriFone MX760 (Future)	Secure Cabinet to junction box under counter
VeriFone Ext.	C4	VeriFone QX720	Secure Cabinet to junction box under counter

HAMILTON AIR.