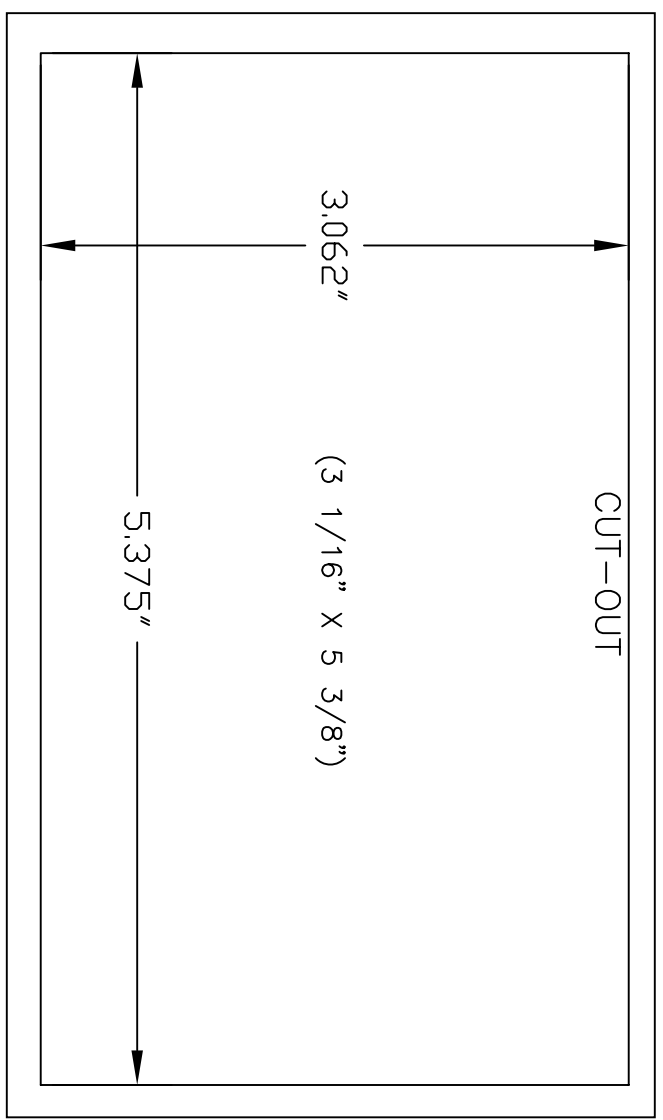
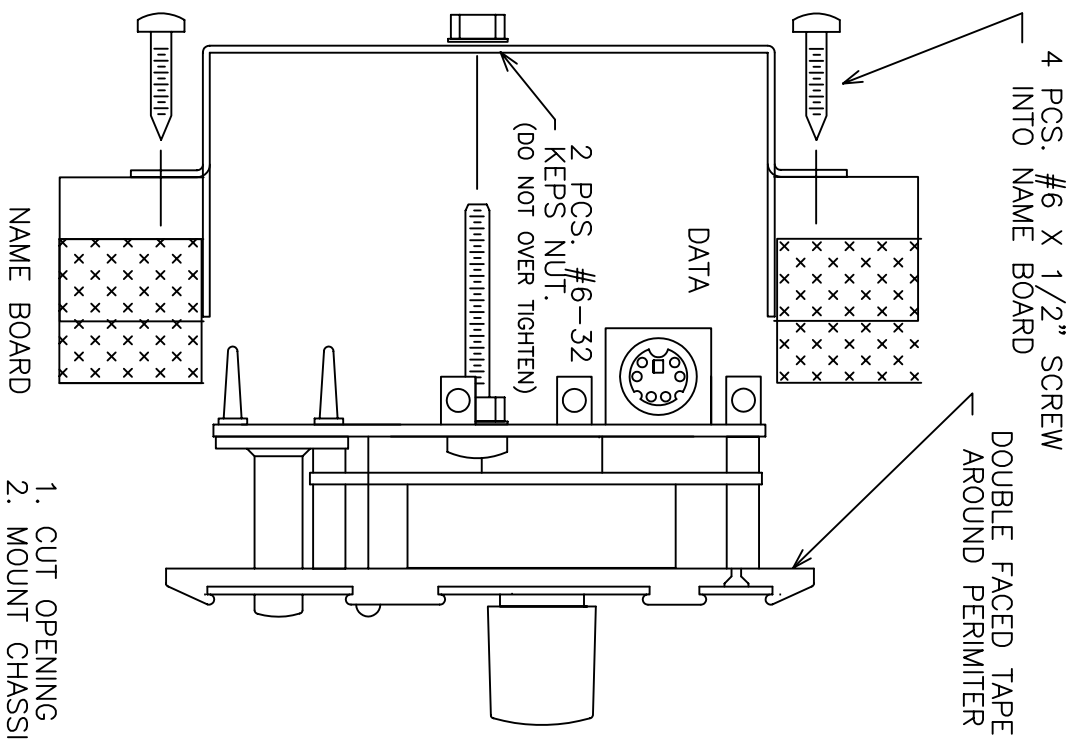


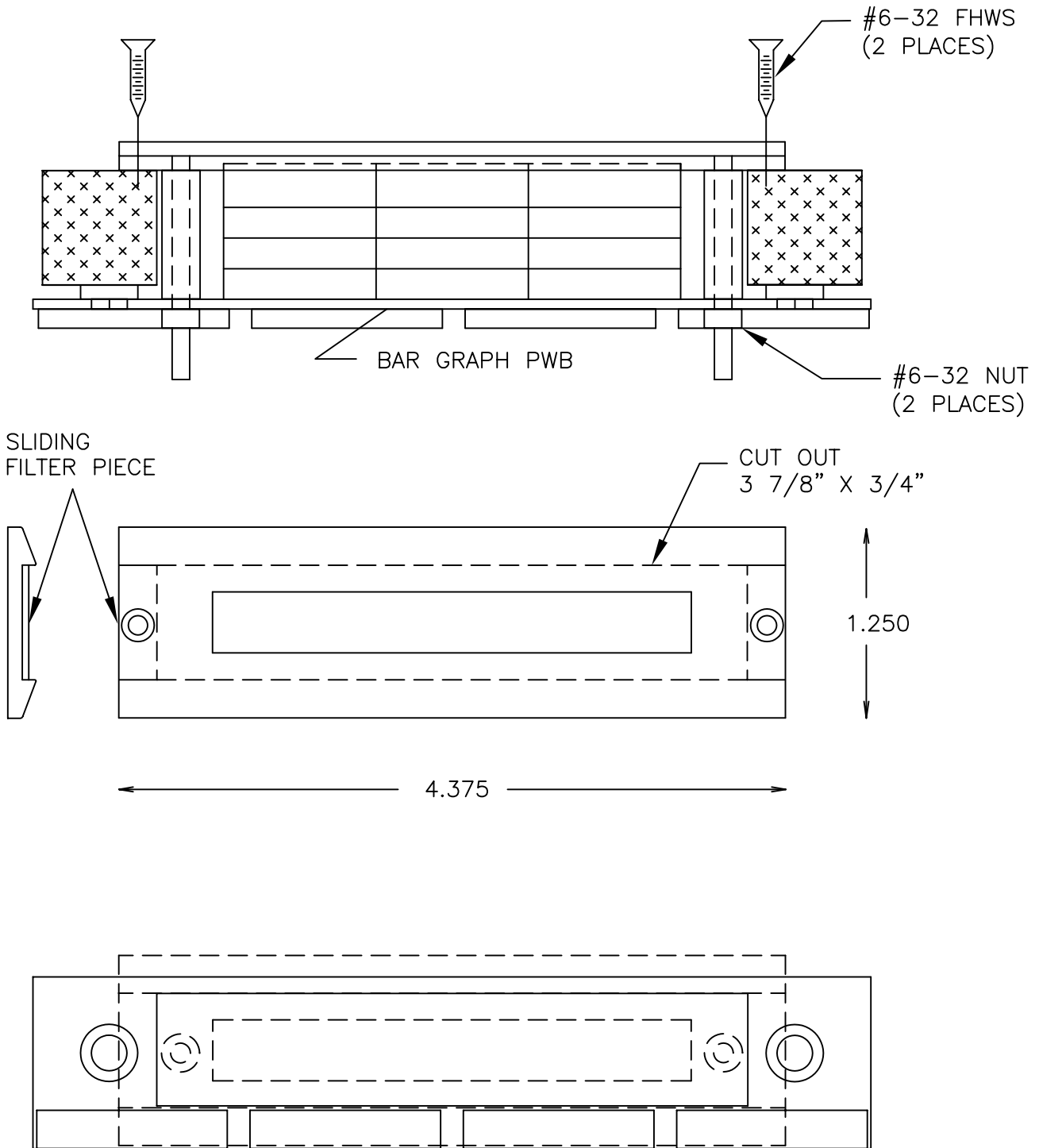
# CONTROL DISPLAY UNIT MOUNTING



1. CUT OPENING IN NAME BOARD 3 1/16" X 5 3/8"
2. MOUNT CHASSIS FROM BACK WITH FOUR #6 X 1/2" SCREWS. BE SURE POWER/DATA OPENINGS ARE TO THE LEFT (FRONT VIEW).
3. REMOVE FACING FROM DOUBLE SIDED TAPE ON PANEL BACK.
4. INSERT CONTROL DISPLAY UNIT INTO CHASSIS/OPENING.
5. TAKE CARE TO ALIGN PANEL, THEN PRESS INTO PLACE.
6. INSTALL TWO #6-32 KEPS NUTS FROM REAR OF CHASSIS. DO NOT OVER TIGHTEN.
7. SLIDE TOP NAME INSERT(S) BACK INTO FRONT PANEL.
8. PLUG THE PS-2 CABLE INTO THE CDU AND ROUTE TO MAIN CAGE AND PLUG IT IN.

FIGURE 1

# BARGRAPH MOUNTING DETAILS

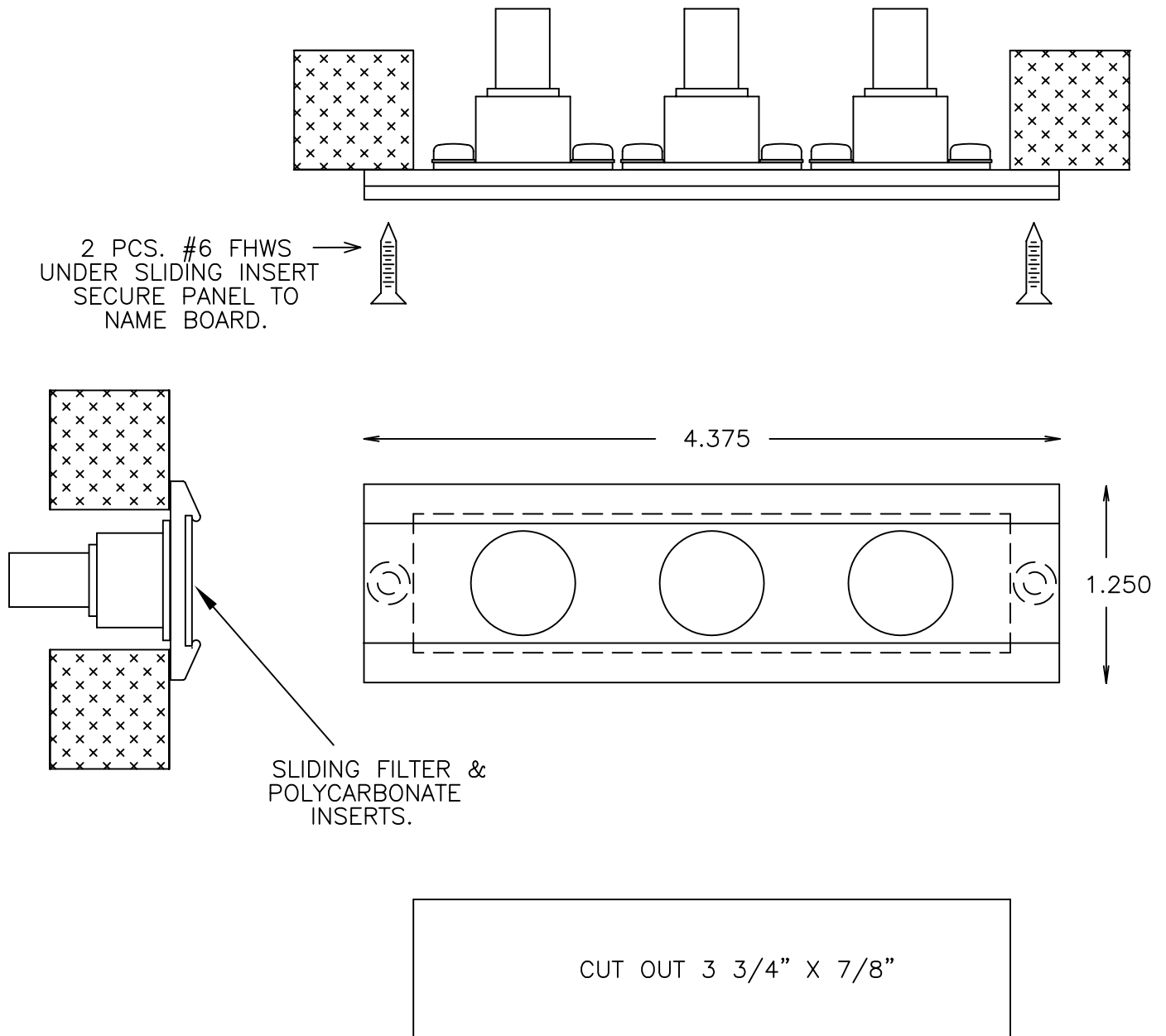


1. CUT OPENING IN NAME BOARD.
2. INSERT BARGRAPH PWBA FROM BACK SIDE, AND INSERT FRONT PANEL (WITH STANDOFFS) FROM THE FRONT SIDE. ALIGN THE TWO AND INSTALL 2 #6-32 NUTS ON THE STUDS (BACKSIDE).
3. ALIGN FRONT PANEL - SLIDE OUT FILTER, INSTALL 2-#6-32 SCREWS.

FIGURE 2A

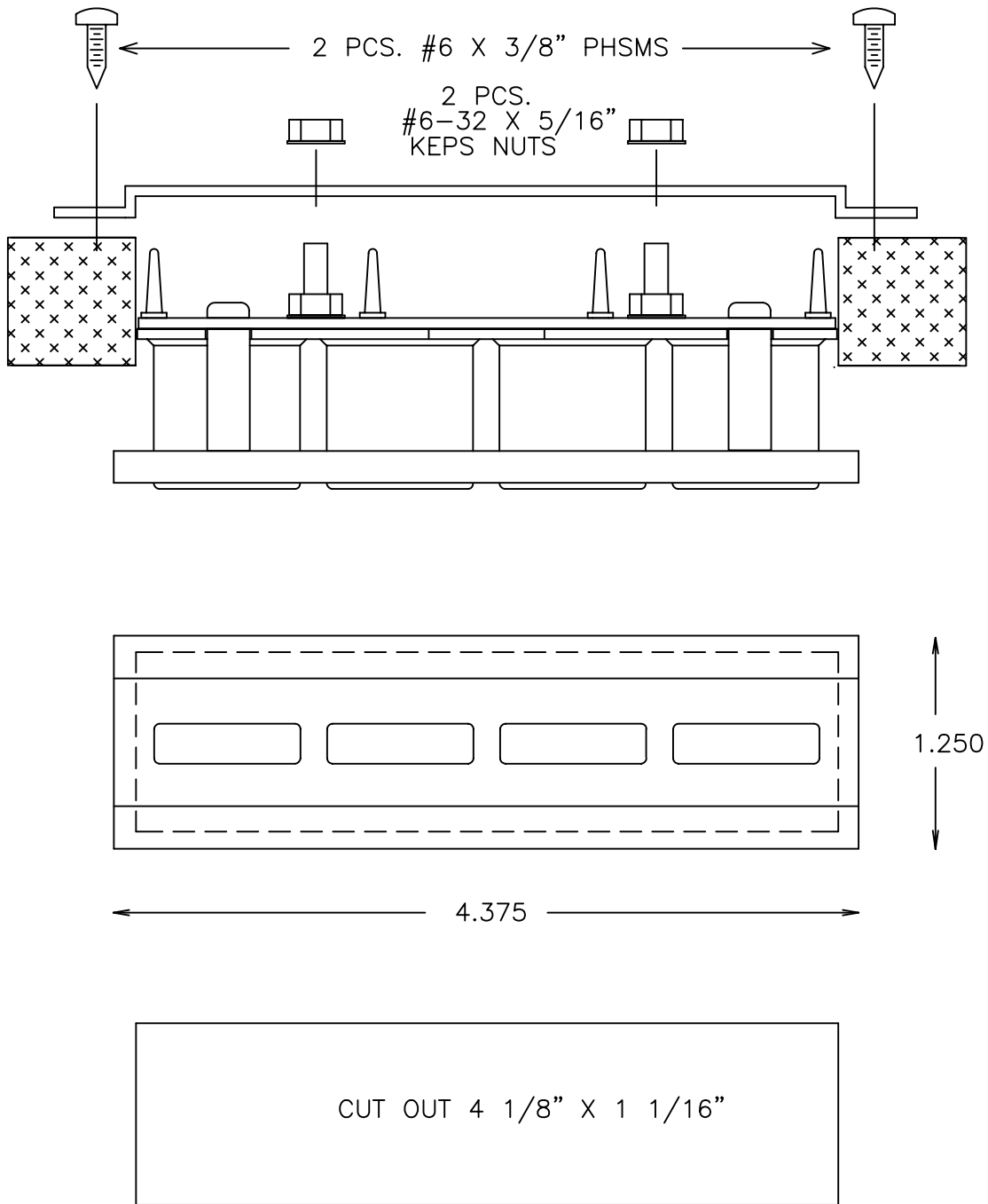
198003

# MIDI PANEL MOUNTING DETAILS



1. CUT OPENING IN KNEE BOARD OR SUITABLE LOCATION.
2. INSERT MIDI CABLES THROUGH CUT OUT.
3. POSITION FRONT PANEL IN THE CENTER OF THE CUT OUT.
4. MOUNT THE MIDI PANEL WITH 2 PCS. #6-32 SCREWS.
5. SLIDE IN INSERT AND FILTER WINDOW.

# TUTTI SELECT MOUNTING DETAILS



1. CUT OPENING IN NAME BOARD.
2. INSERT TUTTI SELECT PANEL ASSY THROUGH CUT OUT.
3. PLACE MOUNTING BRACKET OVER THE #6-32 MOUNTING STUDS.
4. START AND LIGHTLY TIGHTEN THE #6-32 KEPS NUTS ON THE STUDS.
5. ALIGN THE PANEL, THEN PRESS INTO PLACE AND TIGHTEN THE KEPS NUTS.
6. INSTALL 2 PCS. #6 X 3/8" PHSMS THROUGH MOUNTING BRACKET TO SECURE TO THE NAME BOARD.

# ICS HARDWARE BLOCK DIAGRAM

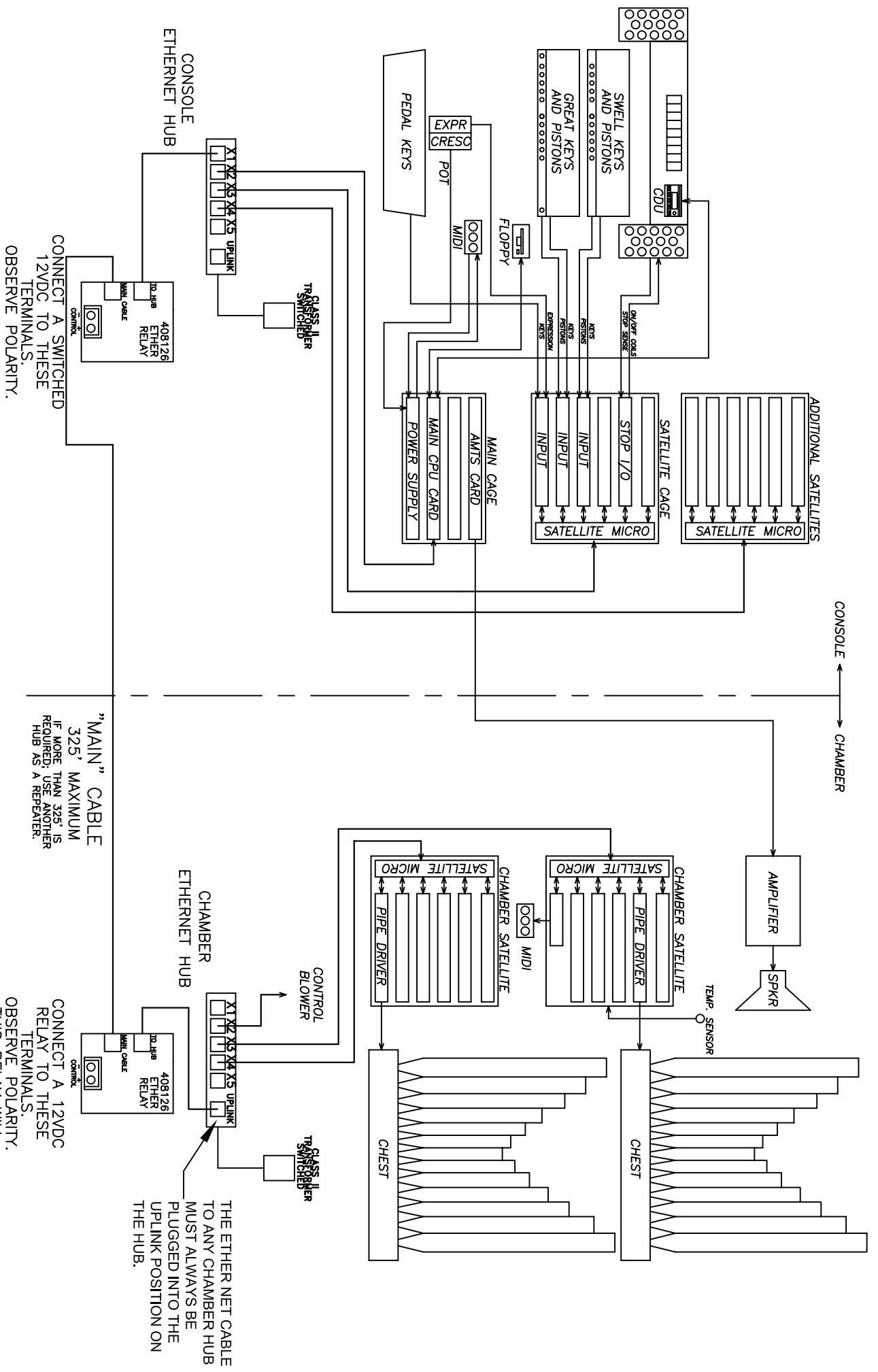
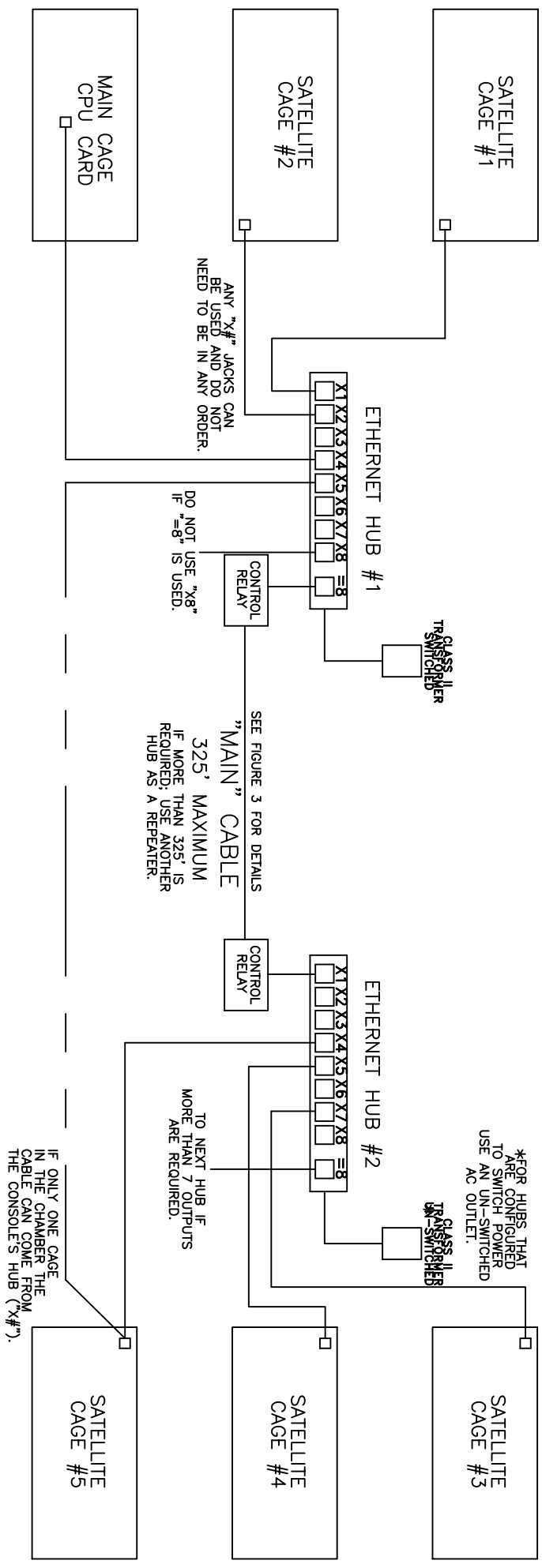


FIGURE 3

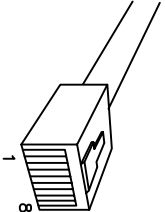
CONSOLE

# TYPICAL ETHERNET WIRING

CHAMBER

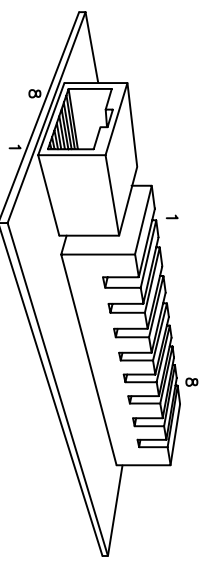


- NOTES:
1. FOR A SMALL ORGAN WITH ONLY ONE CAGE IN THE CHAMBER; ITS CABLE CAN CONNECT TO THE CONSOLE HUB IF LESS THAN 325'.
  2. FOR LARGER ORGANS, HUBS ARE AVAILABLE IN 12, 16 AND 24 PORT SIZES.
  3. CABLES CAN BE PLUGGED INTO ANY "x#" PORT AND DO NOT NEED TO BE IN ANY ORDER.
  4. USE THE "x8" PORT TO Daisy CHAIN TO OTHER HUBS AS NEEDED. DO NOT USE THE "x8" PORT IN THIS CASE.
  5. ANY ONE CABLE SHOULD NOT EXCEED 325'. FOR LONGER RUNS USE ANOTHER HUB AS A REPEATER.
  6. THE MAXIMUM NUMBER OF HUBS THAT SHOULD BE CONNECTED IN SERIES IS FOUR (ONE IN THE CONSOLE, THREE IN THE CHAMBERS. SEE THE MANUAL TEXT FOR DETAILS.)
  7. AN OPTIONAL PUNCH DOWN BLOCK CAN BE USED TO TERMINATE THE MAIN CABLE END(S).
  8. ALL DATA CABLES ARE CAT 5 (TOBASE-T) WITH RJ-45 CONNECTORS (TERMINATED STRAIGHT THRU).



COLOR CODE ALL CONNECTORS

1. WHITE/ORANGE
2. ORANGE
3. WHITE/GREEN
4. BLUE
5. WHITE/BLUE
6. GREEN
7. WHITE/BROWN
8. BROWN

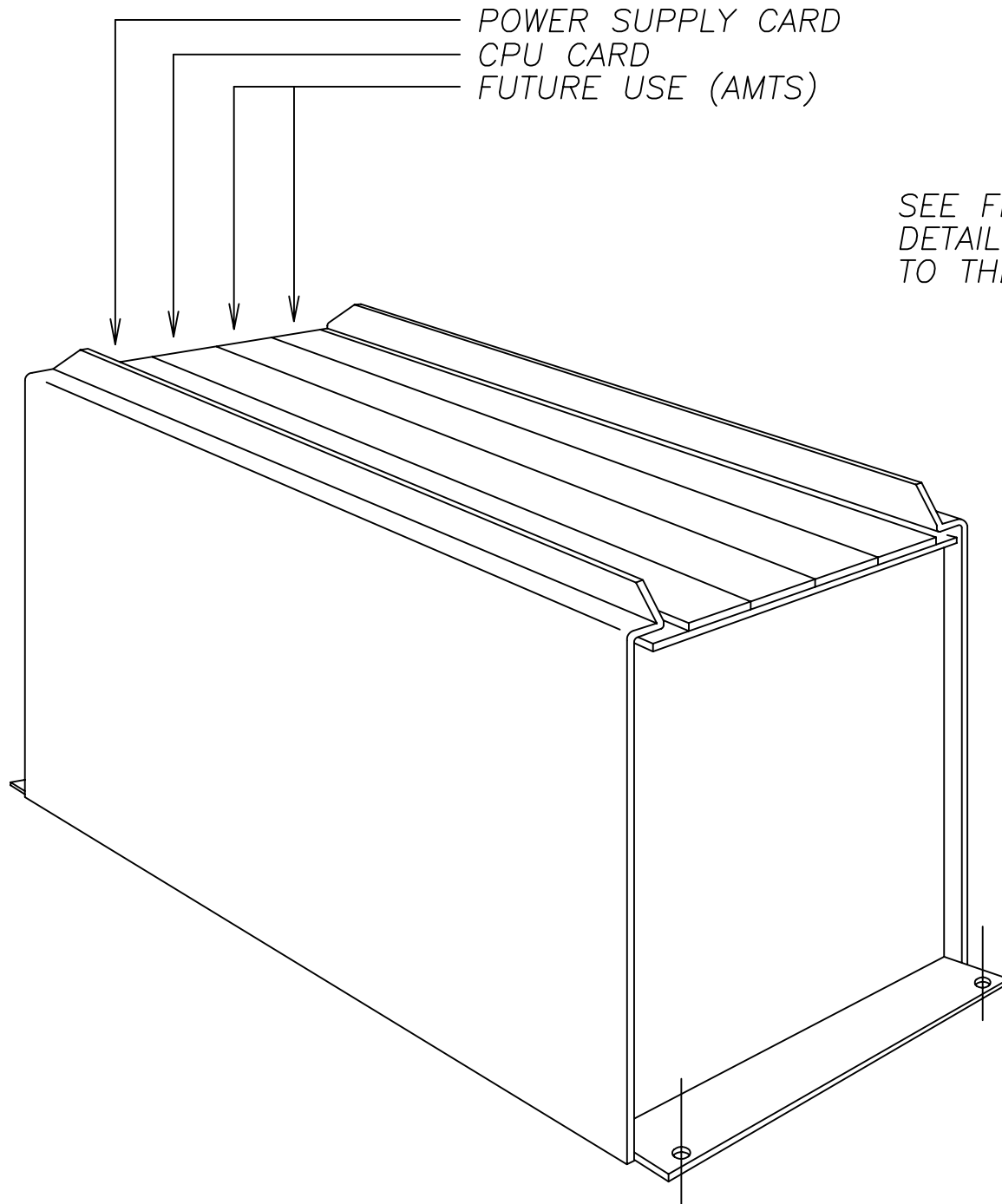


OPTIONAL PUNCH DOWN DETAIL

FIGURE 4

THE OPTIONAL PUNCH DOWN CONNECTOR CAN BE USED TO TERMINATE THE MAIN CABLE AT ONE OR BOTH ENDS. THIS PERMITS THE MAIN CABLE TO BE PULLED THROUGH A CONDUIT WITHOUT CONNECTORS CAUSING INTERFERENCE. A SHORT CABLE IS THEN USED TO CONNECT THE PUNCH DOWN TO THE HUB.

# MAIN (CPU) CARD CAGE



POWER SUPPLY CARD  
CPU CARD  
FUTURE USE (AMTS)

SEE FIGURE 6 FOR  
DETAILS OF WIRING  
TO THESE CARDS

FOOT PRINT:  $14 \frac{3}{8}''$  X  $5 \frac{1}{2}''$   
MTG. HOLES:  $13 \frac{3}{4}''$  X  $4 \frac{3}{16}''$   
HEIGHT: 8.0"

MOUNTING  
HOLES

FIGURE 5

# ICS MAIN CARD CAGE WIRING DETAILS

## POWER SUPPLY CARD

## CPU CARD

## USB & MEMORY EXPANSION CARD

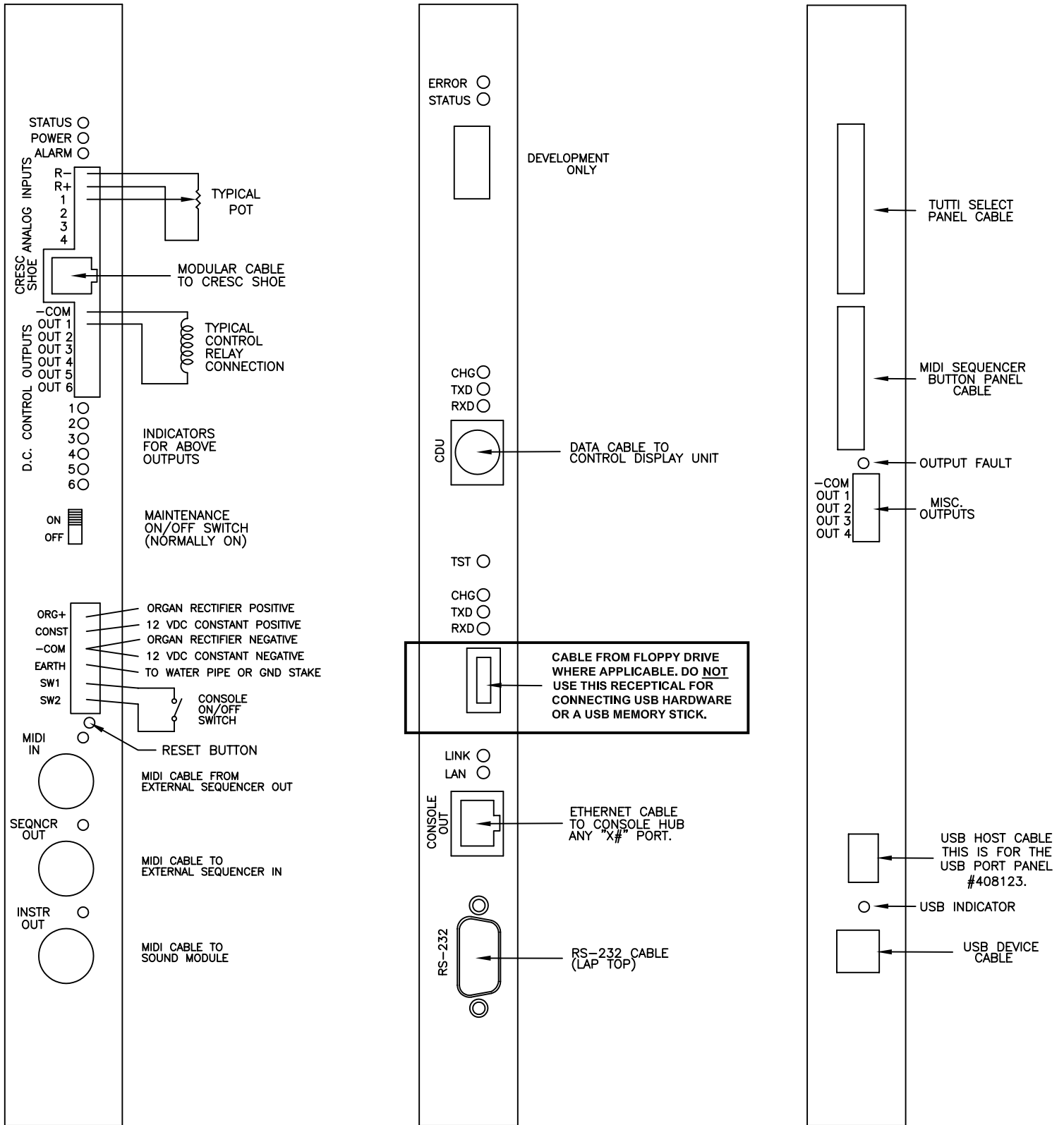


FIGURE 6

# USING A CONSOLE AC CONTROL SYSTEM TO PROVIDE SWITCHED OUTLETS

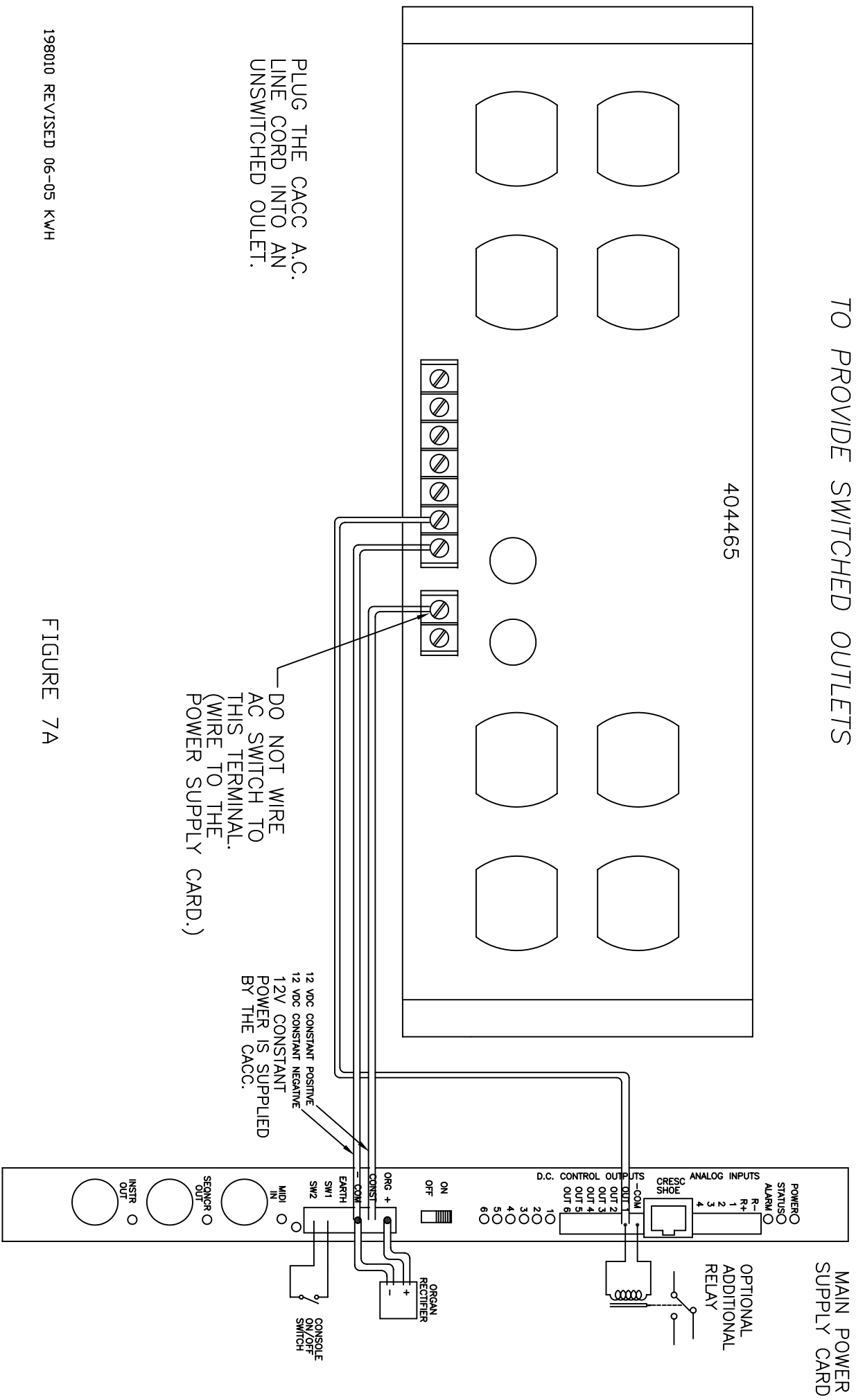
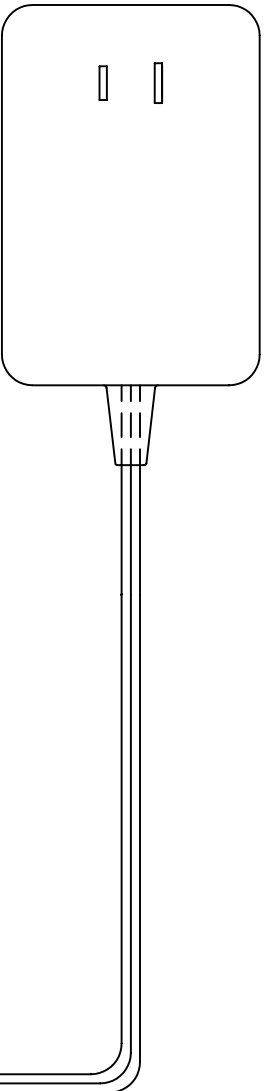
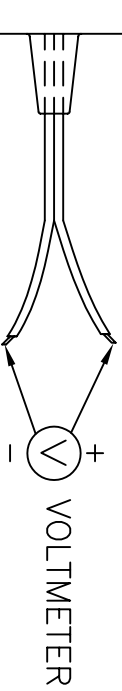


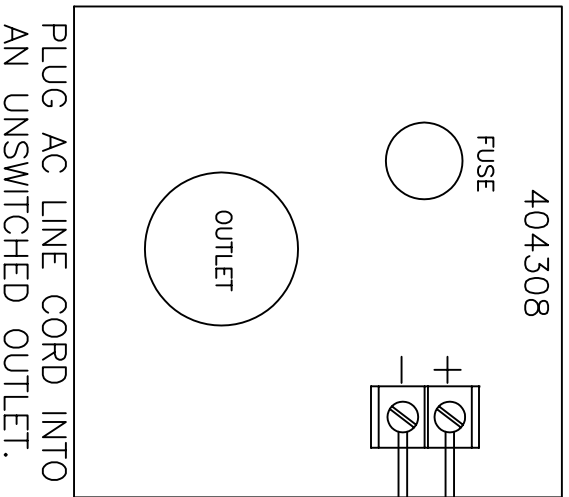
FIGURE 7A



NOTE: THE +/- MAY BE MOLDED IN "ZIP" CABLE.

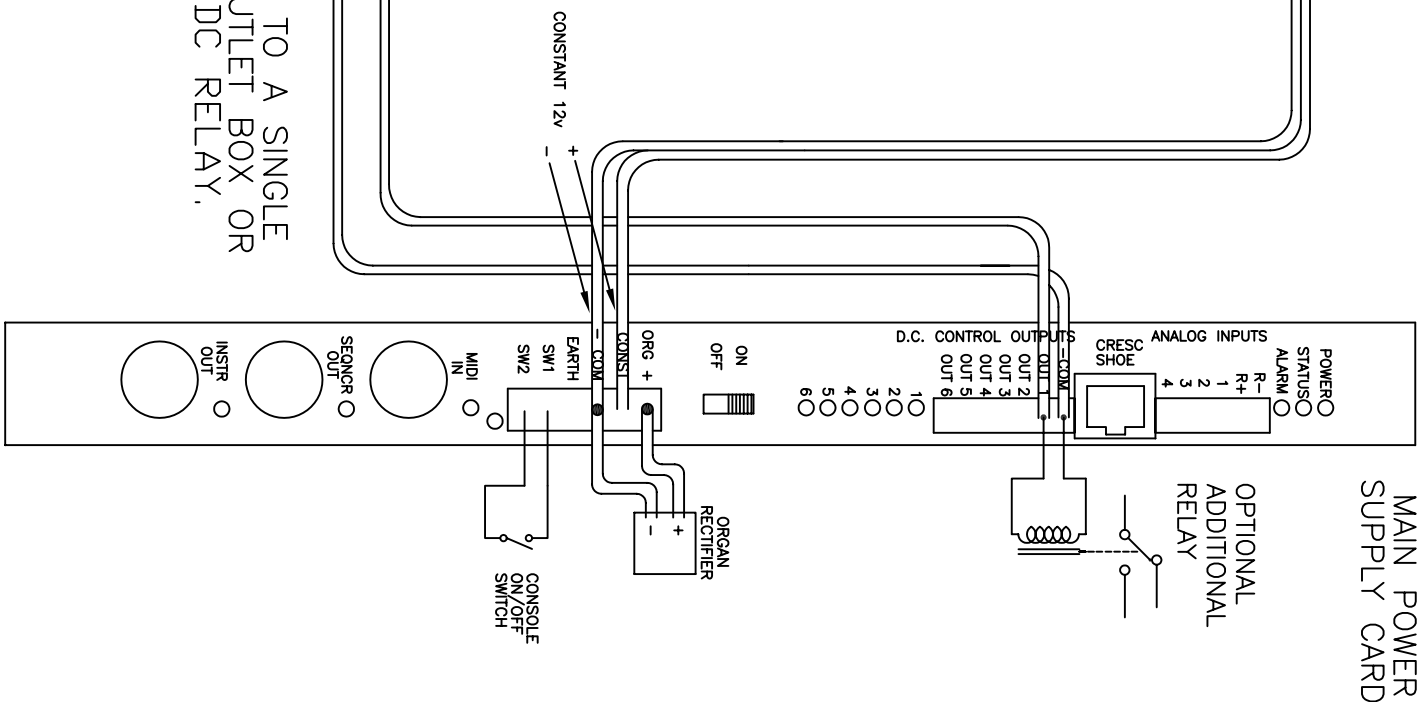


IF SO CUT OFF THE PLUG AND STRIP THE END. CHECK FOR POLARITY WITH A VOLTMETER.



PLUG AC LINE CORD INTO AN UNSWITCHED OUTLET.

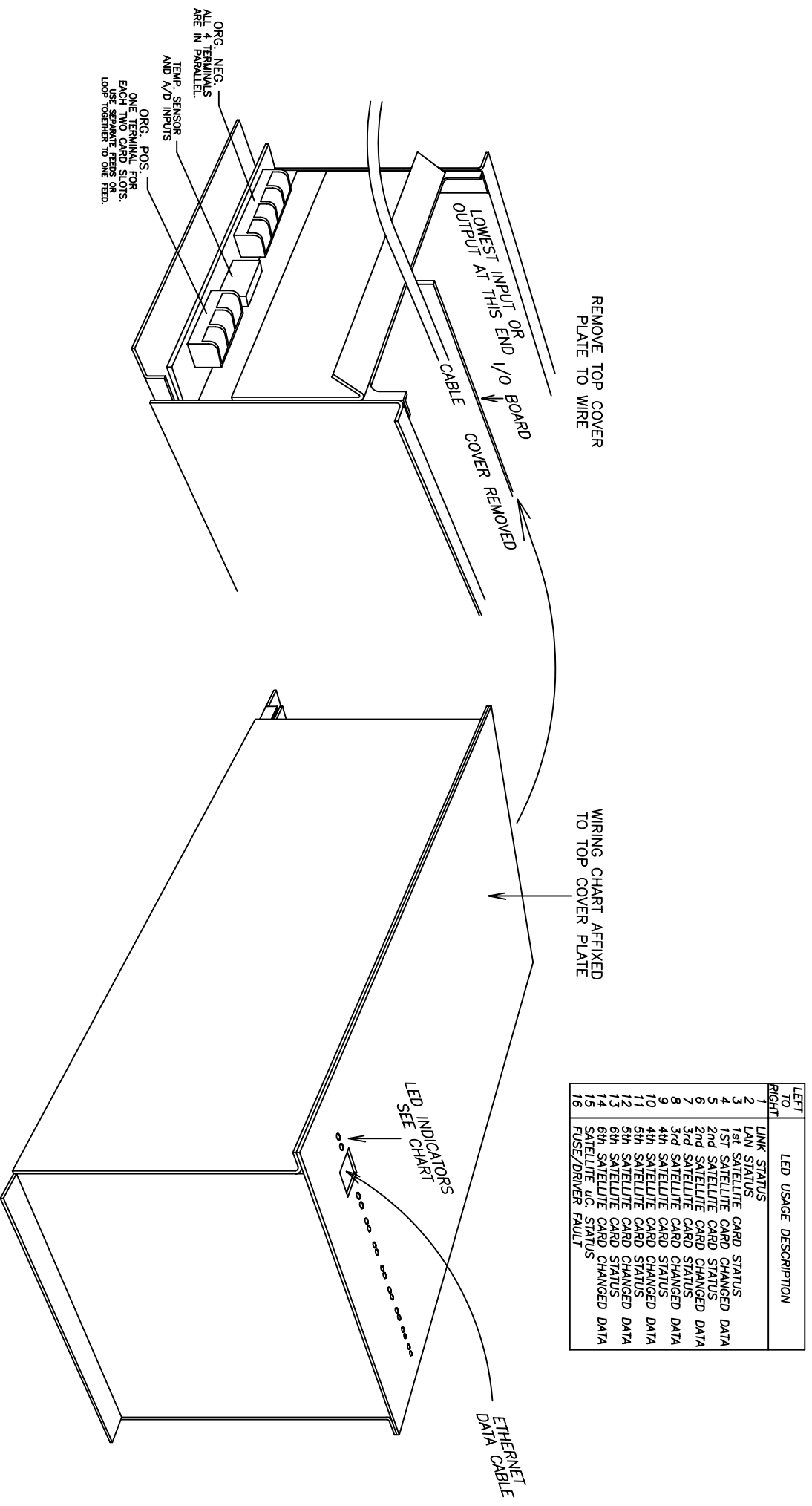
CONNECTING TO A SINGLE SWITCHED OUTLET BOX OR OTHER 12VDC RELAY.



MAIN POWER SUPPLY CARD

FIGURE 7B

# SATELLITE CARD CAGE



REMOVE TOP COVER  
PLATE TO WIRE

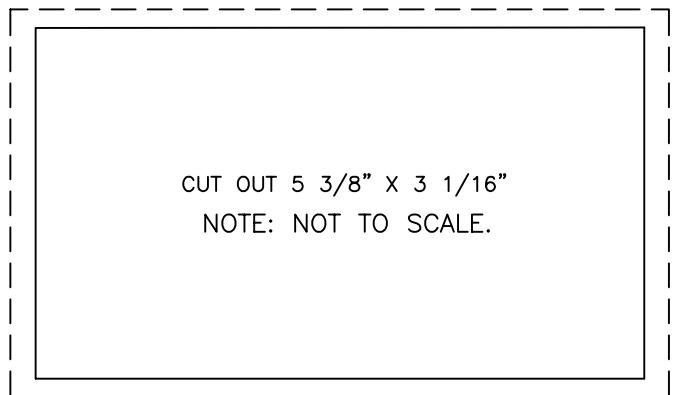
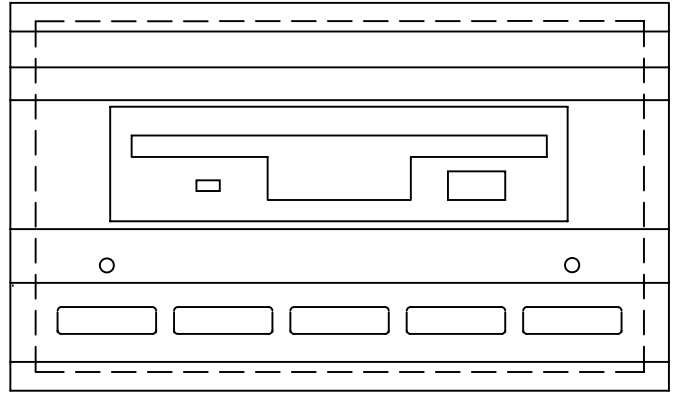
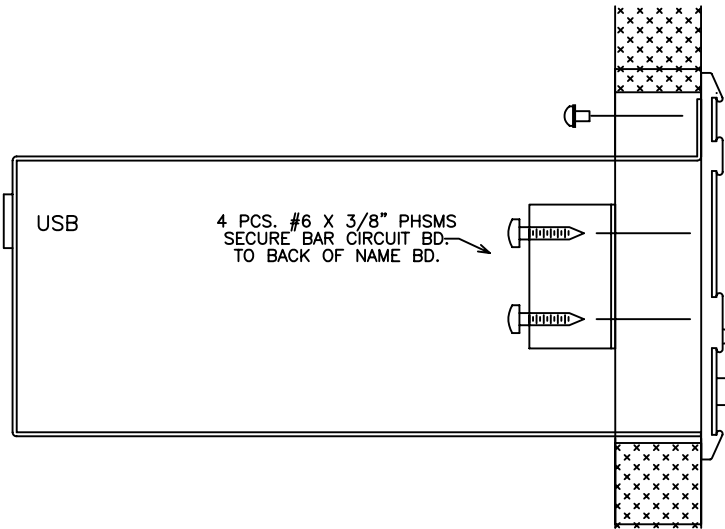
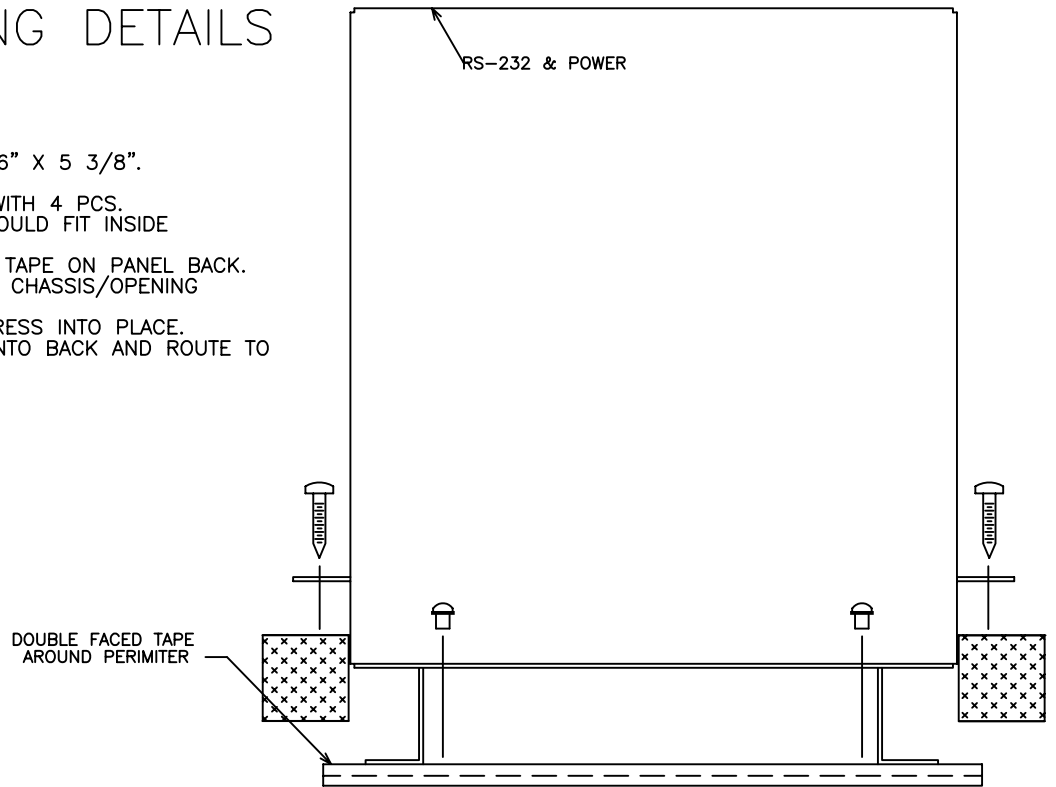
WIRING CHART AFFIXED  
TO TOP COVER PLATE

LEFT TO RIGHT	LED USAGE DESCRIPTION
1	LINK STATUS
2	LAN STATUS
3	1st SATELLITE CARD STATUS
4	1st SATELLITE CARD CHANGED DATA
5	2nd SATELLITE CARD STATUS
6	2nd SATELLITE CARD CHANGED DATA
7	3rd SATELLITE CARD STATUS
8	3rd SATELLITE CARD CHANGED DATA
9	4th SATELLITE CARD STATUS
10	4th SATELLITE CARD CHANGED DATA
11	5th SATELLITE CARD STATUS
12	5th SATELLITE CARD CHANGED DATA
13	6th SATELLITE CARD STATUS
14	6th SATELLITE CARD CHANGED DATA
15	SATELLITE UC STATUS
16	FUSE/DRIVER FAULT

FIGURE 8

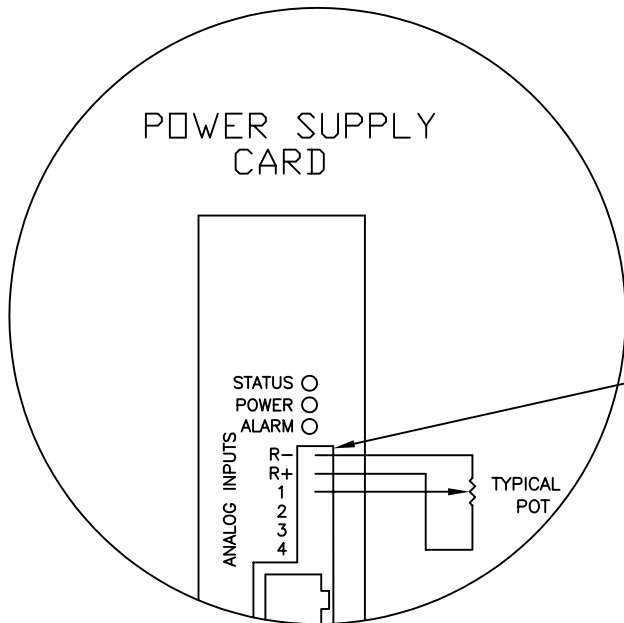
# FLOPPY MOUNTING DETAILS

1. CUT OPENING IN NAME BOARD 3 1/16" X 5 3/8".  
NOTE: 5 3/4" REQUIRED BEHIND.
2. MOUNT COVER CHASSIS FROM BACK WITH 4 PCS. #6-32 X 3/8" SCREWS. CHASSIS SHOULD FIT INSIDE OPENING AND BE SELF ALIGNING.
3. REMOVE FACING FROM DOUBLE SIDED TAPE ON PANEL BACK.
4. INSERT FLOPPY DRIVE ASSEMBLY INTO CHASSIS/OPENING FROM FRONT.
5. TAKE CARE TO ALIGN PANEL, THEN PRESS INTO PLACE.
6. PLUG THE USB DATA/POWER CABLE INTO BACK AND ROUTE TO MAIN CAGE.

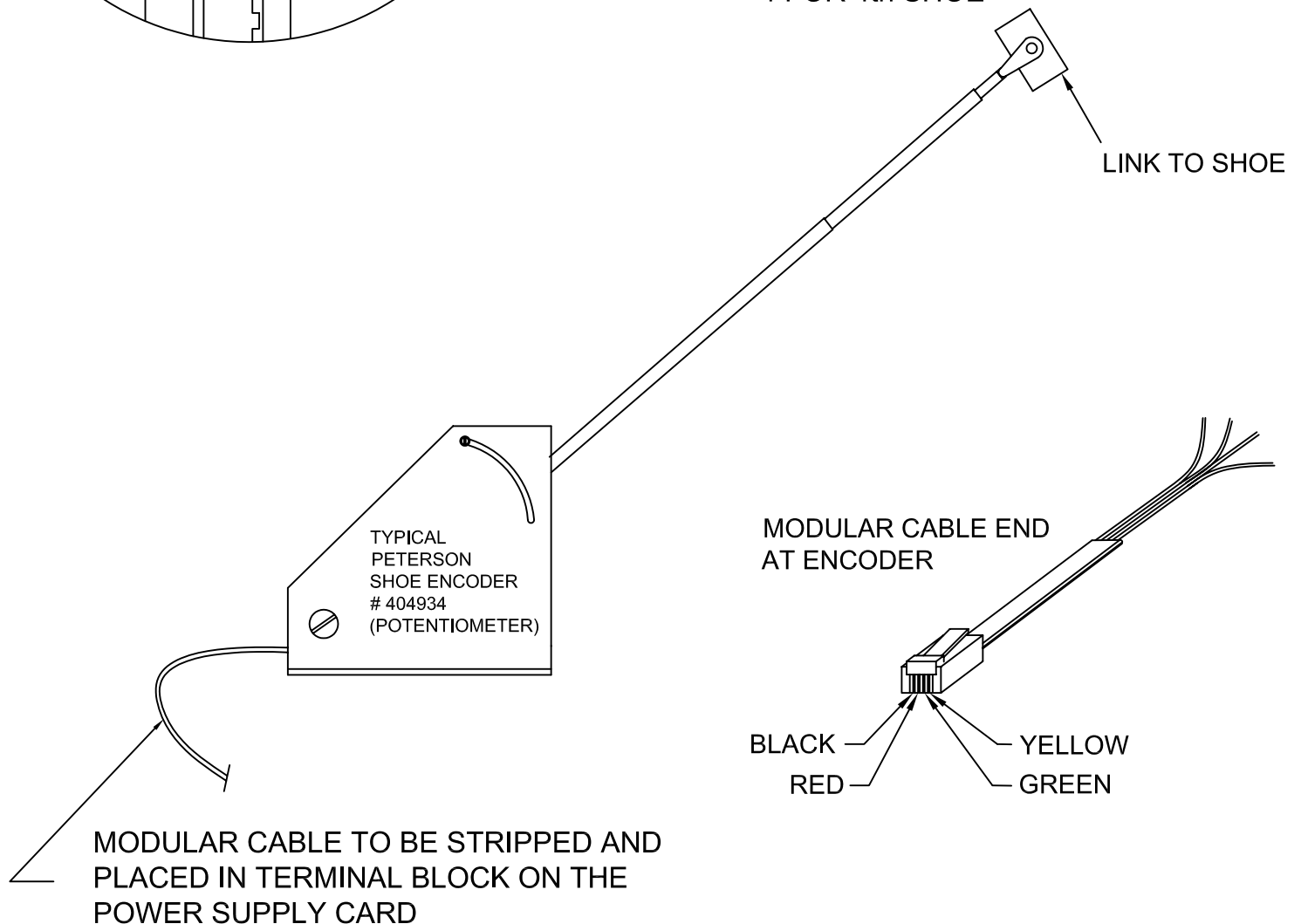


# ICS-4000 EXPRESSION ENCODER INPUTS

(POTENTIOMETER STYLE)



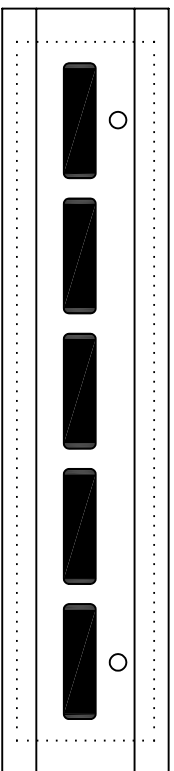
BLACK = R-  
RED = R+  
GREEN = NO CONNECTION  
YELLOW = 1 FOR 1st SHOE  
2 FOR 2nd SHOE  
3 FOR 3rd SHOE  
4 FOR 4th SHOE



**peterson**

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PLAY/RECORD CONTROL PANEL



5.750"

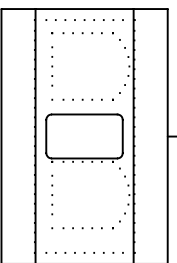
1.250"

5 1/4"



1 1/32"

USB PORT



1.916"

1.250"

1 3/4"



3/4"