Installer Instructions for AlphaEclipse 3600 Signs (Series B)

(Form number 9711-8028B, February 14, 2006)

Instructions for the *Sign Installer*

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Connecting people, places and ideas

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The distinctive trade dress of this product is a trademark claimed by Adaptive Micro Systems LLC. Due to continuing product innovation, specifications

1 Determine sign power requirements

Number of circuits required

Model number
Use this to find the sign's weight. See "Sign mounting (sheet 2)" on page 12.

Total sign current

CIRCUIT #1: 19.4
CIRCUIT #2: 19.4
CIRCUIT #3: NA
CIRCUIT #4: NA
CIRCUIT #5: NA
CIRCUIT #6: NA
CIRCUIT #7: NA
CIRCUIT #8: NA
CIRCUIT #9: NA
CIRCUIT #10: NA

MODEL NO.: 1180 - 3601112032RGB
SERIES: B
VOLTS: 120 ~ VAC
Hz: 60Hz
AMPS: 38.8 A

DATE OF MANUFACTURE: 9/26/2004
SERIAL NO.: EH0002231

CONFORMS TO STANDARD: ANSI/UL 60950-1
CERTIFIED TO: CAN/USA 22.2 No. 60950-1-03

65801

NEMA TYPE 3R ENCLOSURE
IP44 RATED ENCLOSURE

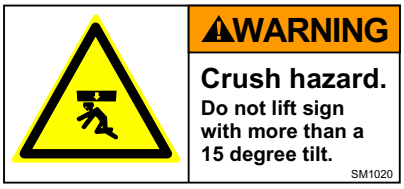
PARTS SERVICEABLE BY TRAINED TECHNICIANS ONLY!
DISCONNECT POWER BEFORE SERVICING

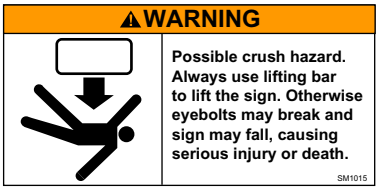
THE DISTINCTIVE TRADE DRESS OF THIS PRODUCT IS A TRADEMARK OF ADAPTIVE MICRO SYSTEMS LLC

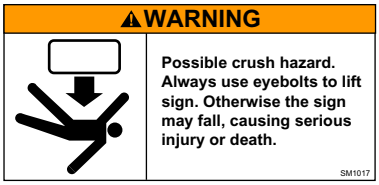
ADAPTIVE
Adaptive Micro Systems LLC
Milwaukee, Wisconsin 53224 USA

2 Mount signs

Observe safety precautions







Create a support structure for the signs

- All installations, superstructure designs, and connections must be designed and approved by a qualified structural engineer. Call Adaptive Micro Systems at 1-800-558-7022 for contact information for structural engineering consultants.
- Drill holes as needed in the sign's steel framework for fasteners, but consult the attached shop drawings for excluded areas. *Drilling holes in any of these excluded areas will void the sign's warranty.* When drilling holes, follow these guidelines: (1) Connections must be analyzed by a structural engineer. (2) Dissimilar metals should be isolated to avoid galvanic corrosion.
- Any area on the sign's frame that had paint removed during mounting must be recoated with a paint recognized by UL test #1332. *Failure to repaint the area will result in accelerated corrosion of the sign's structure. Adaptive Micro Systems is not responsible for any failure in the sign's structure because of this.* (POLANE HS Plus Polyurethane Enamel is used to paint the sign's frame during manufacturing.)

Ventilate signs adequately

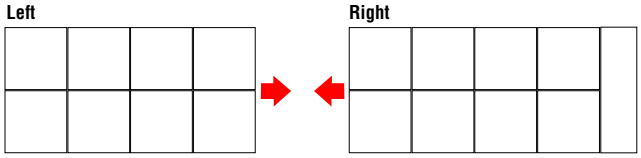
- If the sign is mounted to a solid surface like a wall, then nothing should block the space between the top, bottom, and sides of the sign and the solid surface.
- If there is an obstruction (as in a monument-style installation), then run duct work (not supplied) from the bottom side of the sign and laterally to the top of the sign to exhaust hot air. Be sure no rain or snow can enter the sign through this duct work. To avoid heat build-up and depending on sign size, more space may be required at the back of the sign to provide ample air flow. Fans can be used to supplement natural air flow. Adaptive Micro Systems recommends isolating the fresh air intakes from the exhaust air.

2 Mount signs (continued)

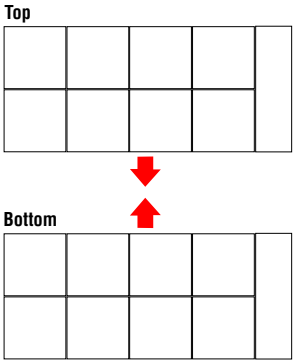
Multiple section sign assembly

NOTE: These instructions only apply to large signs that are shipped from the factory in multiple sections. These sections must then be assembled into a single sign at the installation site.

Vertical split or horizontal split assembly

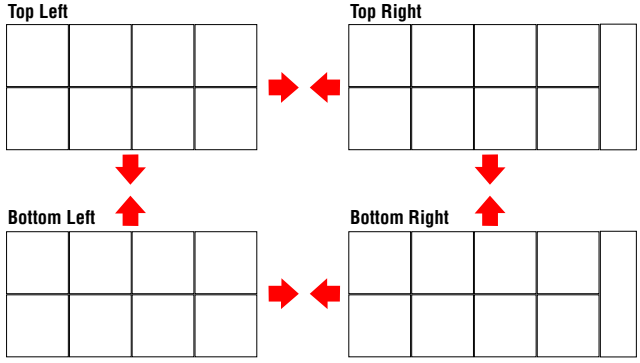


For a vertically split sign, see “Multiple section sign, vertical split assembly” on page 16.



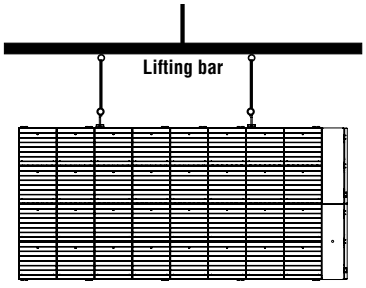
For a horizontally split sign, see “Multiple section sign, horizontal split assembly” on page 18.

Vertical and horizontal split assembly

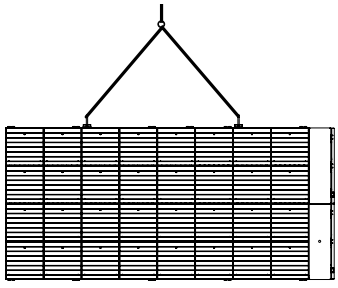


For a sign that is split both vertically and horizontally, see “Multiple section sign, vertical/horizontal split (sheet 1 of 2)” on page 20.

Lift signs into place and assemble



RECOMMENDED



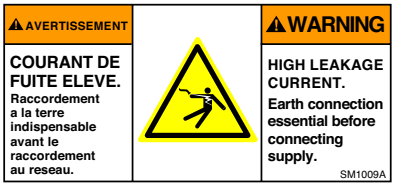
NOT RECOMMENDED

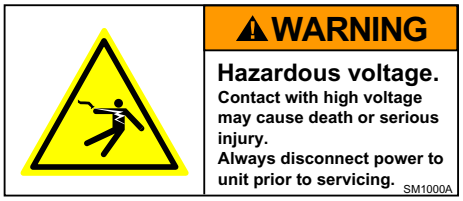
See the shop drawings on page 10 for detailed sign mounting

See “Temperature probe mounting” on page 24 for information on the optional temperature probe.

3 Connect power

Observe safety precautions





Electrical installation guidelines

- Inspect all internal sign cabling for proper connection and seating.
- All power wiring must be from circuit breaker-protected lines.
- A two-pole disconnect device must be installed in the building wiring for each branch circuit supplying the sign.
- The sign must be properly grounded according to the applicable codes (for example, NEC Article 250 and 600, and IEEE 1100-1999).
- Run separate conduits for signal wires (for example, RS232, RS485) and for power wires. However, fiber optic wire may be run in the same conduit with power wires.
- This sign should *not* be connected to a ground fault interrupt (GFI) circuit.
- All electrical connections must be watertight.
- Use minimum 80° C copper wire only.
  Utiliser uniquement un fil en cuivre pouvant supporter 80° C minimum.
- Torque terminals to a minimum of 7 in/lbs and a maximum of 10 in/lbs.
  Serrer les bornes à 0,79 N/m minimum, mais pas à plus de 1,13 N/m.

Run power to the sign

Use the information from "Determine sign power requirements" on page 2.

NOTE: Make sure two conduits are run to the sign: one for power and the other for communication wires. See "Connect MASTER UNIT to messaging computer" on page 8.

Ground the sign

The sign must be properly grounded in order to provide the following three types of protection:

- Ground fault protection — The sign must be wired to provide a permanent, low impedance pathway to carry sign ground fault current. *Earth grounding a sign through some type of ground rod bonded to the sign is not sufficient ground fault protection.*
- Lightning strike protection — A sign must be earth grounded either through an existing ground rod or separate ground rod(s) bonded to the sign. See National Electrical Code (NEC) Article 250.32. A ground lug in the sign's wireway is provided for this purpose.
- Electronic equipment protection — A common cause for the failure of sensitive electronic equipment is the presence of objectionable current on grounding or bonding paths. Likely causes for objectionable current are (1) errors in installation wiring, (2) improper neutral-to-case bonds, and (3) equipment-grounding conductor used to carry neutral current.

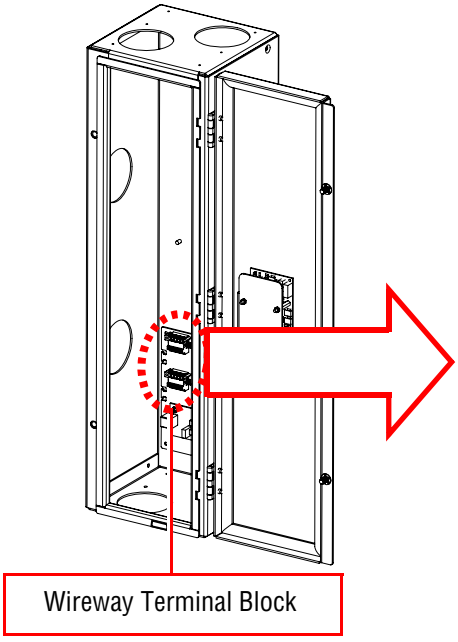
  NOTE: Though #3 is permitted by NEC Article 250.32(B)(2), Adaptive does *not* recommend this wiring method because it creates a potentially hazardous situation.

4 Wire signs together (if only 1 sign, skip this)

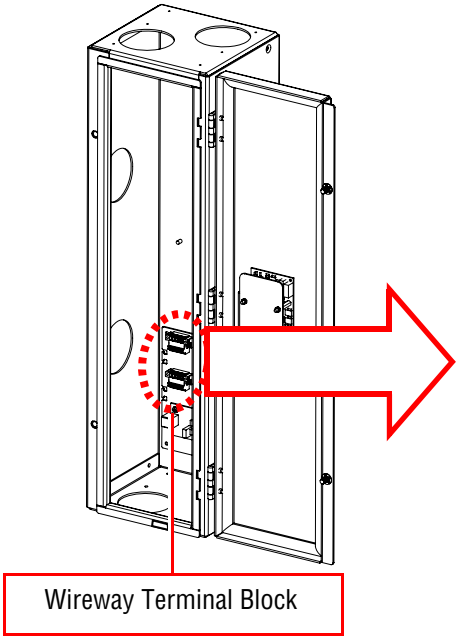
How are the signs labeled? (select one below)

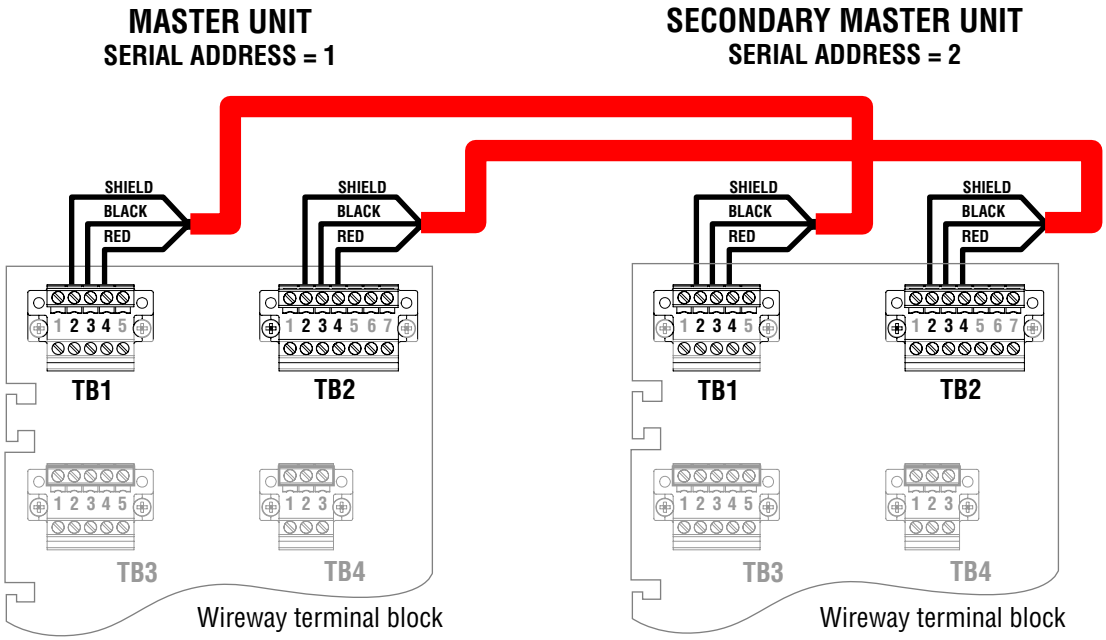
☐ **MASTER / SECONDARY MASTER**

Sign Wireways (back)

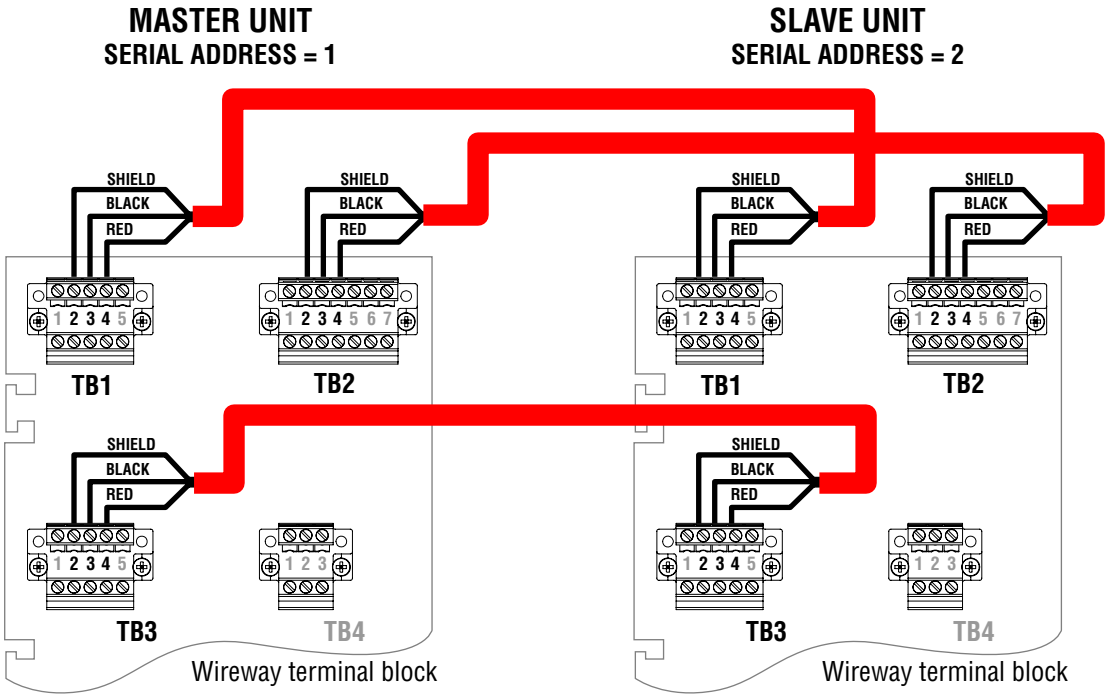


☐ **MASTER / SLAVE**





(To connect 3 or more signs, go to “MASTER / SECONDARY MASTER sign-to-sign wiring for 3 or more signs” on page 25.)



(To connect 3 or more signs, go to “MASTER / SLAVE sign-to-sign wiring for 3 or more signs” on page 25.)

5 Connect MASTER UNIT to messaging computer

What is included with the signs? (select one below)

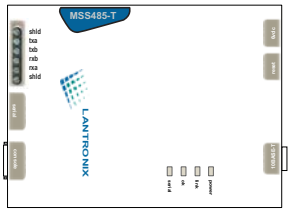
☐ **Converter Box III**
(Connected by outdoor wire to MASTER UNIT. Connected to messaging computer by cable. Placed next to computer.)

☐ **Telephone modem**
(One modem connected inside MASTER UNIT. Another connected to messaging computer.)

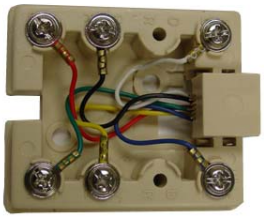
☐ **Fiber optic modem**
(One fiber optic modem connected inside MASTER UNIT wireway. Another fiber optic modemconnected to messaging computer.)

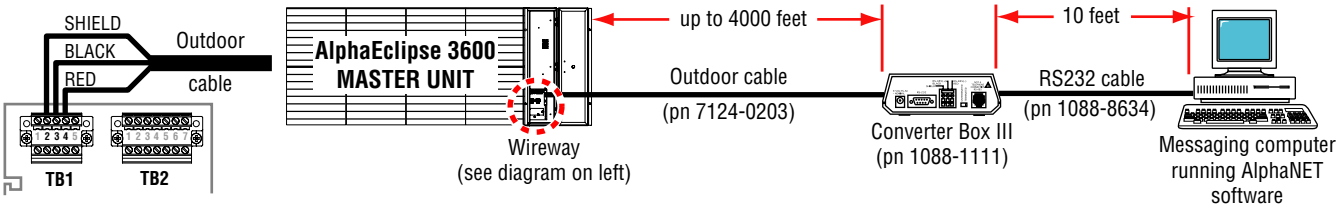
☐ **Alpha RF900 wireless transceiver**
(A client transceiver connected inside MASTER UNIT. A server transceiver connected to messaging computer.)

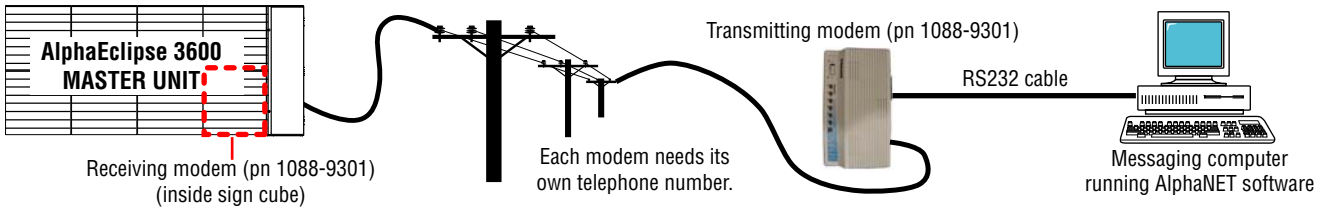
☐ **Lantronix MSS485 Ethernet interface**
(Connected to MASTER UNIT by outdoor wire. Also, MSS485 and messaging computer both connected to Ethernet.)

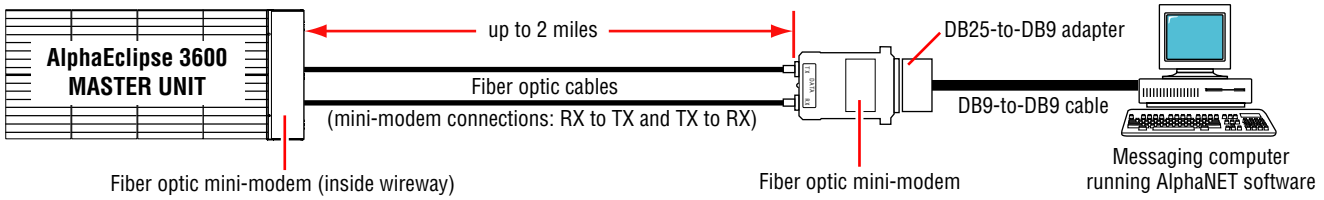


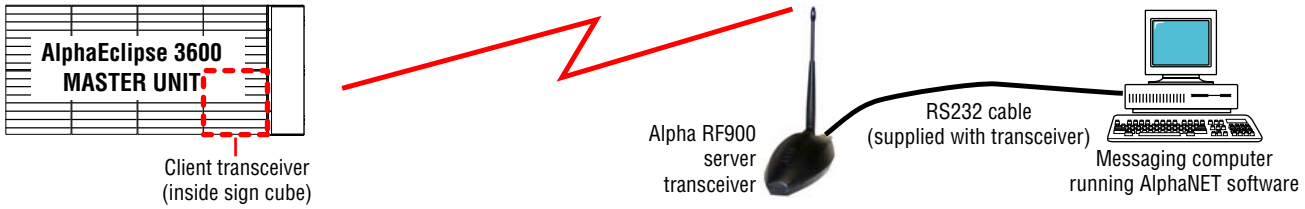
☐ **External connection box**
(Connected to MASTER UNIT using outdoor wire. Placed at base of signs.)
NOTE: GND must be connected to the White Wire. Blue and White wires may not be wired as shown.

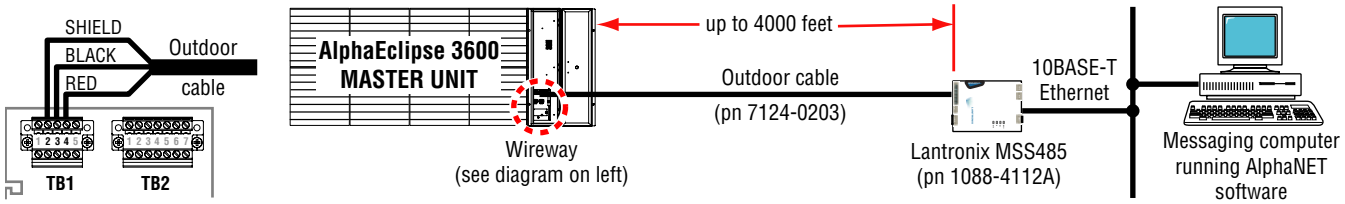


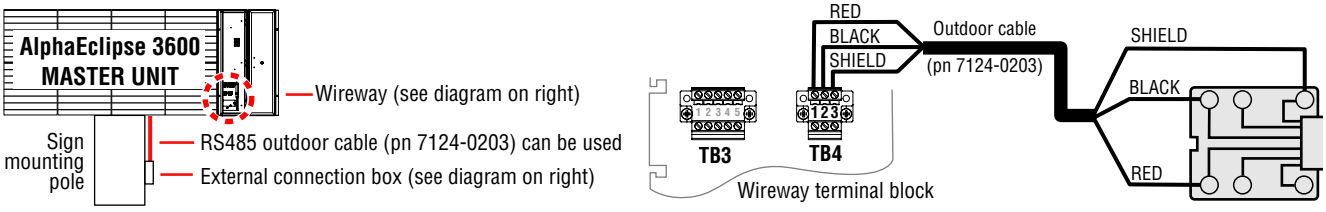

SHIELD
BLACK
RED
Outdoor cable
TB1
TB2
AlphaEclipse 3600 MASTER UNIT
up to 4000 feet
Outdoor cable (pn 7124-0203)
Wireway (see diagram on left)
Converter Box III (pn 1088-1111)
10 feet
RS232 cable (pn 1088-8634)
Messaging computer running AlphaNET software


AlphaEclipse 3600 MASTER UNIT
Receiving modem (pn 1088-9301) (inside sign cube)
Each modem needs its own telephone number.
Transmitting modem (pn 1088-9301)
RS232 cable
Messaging computer running AlphaNET software

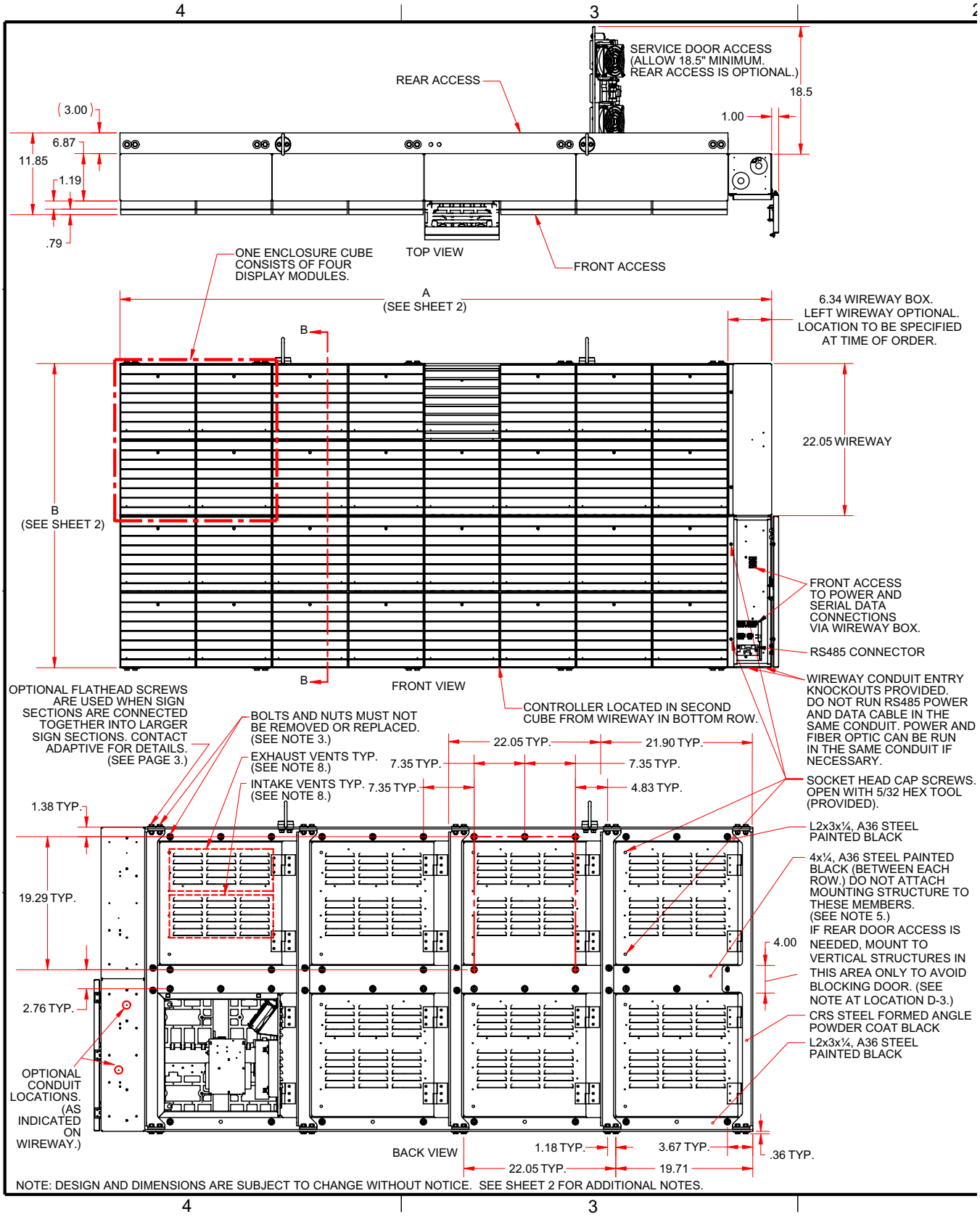

AlphaEclipse 3600 MASTER UNIT
up to 2 miles
Fiber optic cables
(mini-modem connections: RX to TX and TX to RX)
Fiber optic mini-modem (inside wireway)
Fiber optic mini-modem
DB25-to-DB9 adapter
DB9-to-DB9 cable
Messaging computer running AlphaNET software

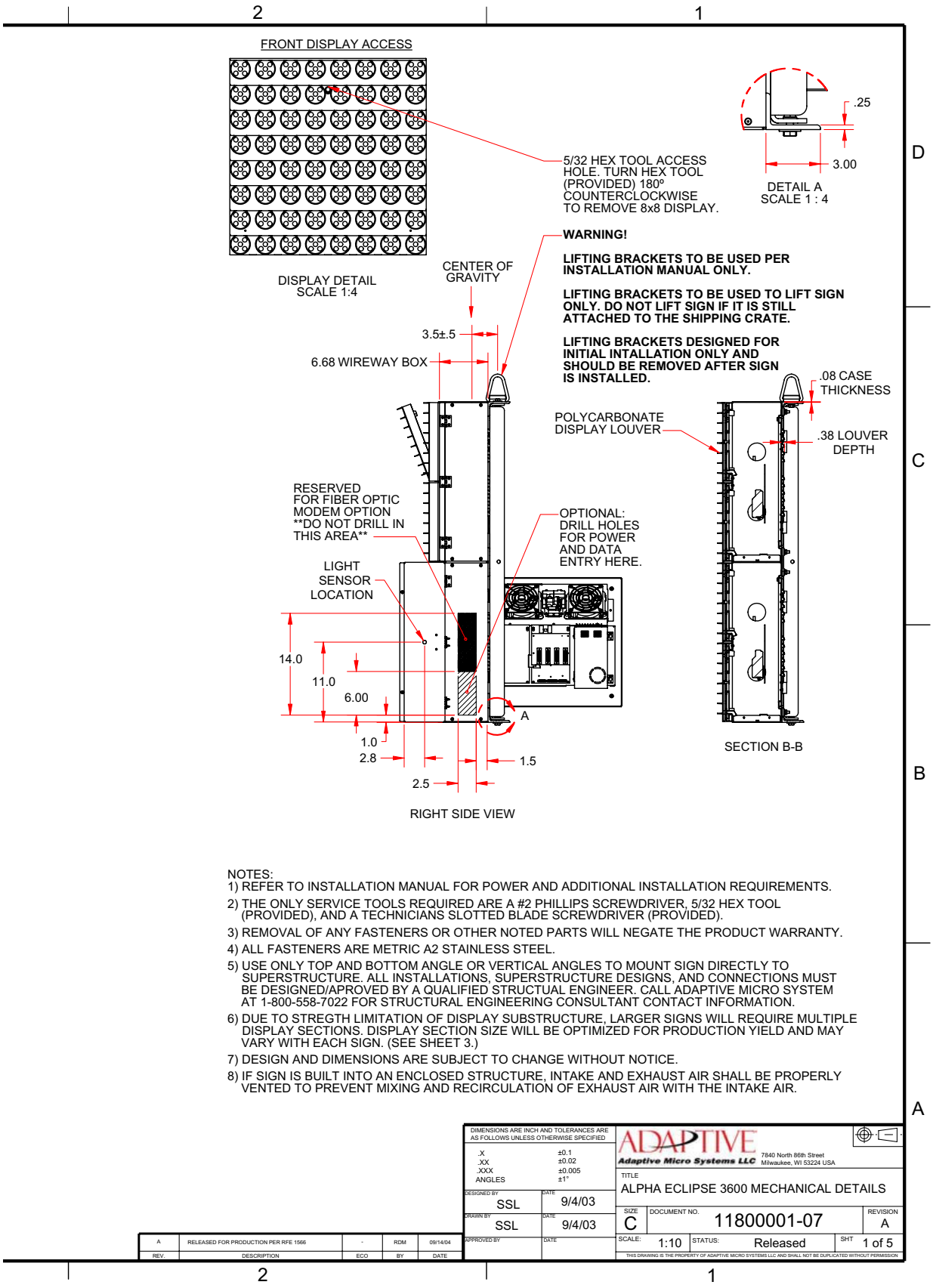

AlphaEclipse 3600 MASTER UNIT
Client transceiver (inside sign cube)
Alpha RF900 server transceiver
RS232 cable (supplied with transceiver)
Messaging computer running AlphaNET software


SHIELD
BLACK
RED
Outdoor cable
TB1
TB2
AlphaEclipse 3600 MASTER UNIT
up to 4000 feet
Outdoor cable (pn 7124-0203)
Wireway (see diagram on left)
Lantronix MSS485 (pn 1088-4112A)
10BASE-T Ethernet
Messaging computer running AlphaNET software


AlphaEclipse 3600 MASTER UNIT
Wireway (see diagram on right)
Sign mounting pole
RS485 outdoor cable (pn 7124-0203) can be used
External connection box (see diagram on right)
RED
BLACK
SHIELD
Outdoor cable (pn 7124-0203)
TB3
TB4
Wireway terminal block
SHIELD
BLACK
RED

Sign mounting (sheet 1)





NOTES:
1) REFER TO INSTALLATION MANUAL FOR POWER AND ADDITIONAL INSTALLATION REQUIREMENTS.
2) THE ONLY SERVICE TOOLS REQUIRED ARE A #2 PHILLIPS SCREWDRIVER, 5/32 HEX TOOL (PROVIDED), AND A TECHNICIANS SLOTTED BLADE SCREWDRIVER (PROVIDED).
3) REMOVAL OF ANY FASTENERS OR OTHER NOTED PARTS WILL NEGATE THE PRODUCT WARRANTY.
4) ALL FASTENERS ARE METRIC A2 STAINLESS STEEL.
5) USE ONLY TOP AND BOTTOM ANGLE OR VERTICAL ANGLES TO MOUNT SIGN DIRECTLY TO SUPERSTRUCTURE. ALL INSTALLATIONS, SUPERSTRUCTURE DESIGNS, AND CONNECTIONS MUST BE DESIGNED/APROVED BY A QUALIFIED STRUCTUAL ENGINEER. CALL ADAPTIVE MICRO SYSTEM AT 1-800-558-7022 FOR STRUCTURAL ENGINEERING CONSULTANT CONTACT INFORMATION.
6) DUE TO STREGTH LIMITATION OF DISPLAY SUBSTRUCTURE, LARGER SIGNS WILL REQUIRE MULTIPLE DISPLAY SECTIONS. DISPLAY SECTION SIZE WILL BE OPTIMIZED FOR PRODUCTION YIELD AND MAY VARY WITH EACH SIGN. (SEE SHEET 3.)
7) DESIGN AND DIMENSIONS ARE SUBJECT TO CHANGE WITHOUT NOTICE.
8) IF SIGN IS BUILT INTO AN ENCLOSED STRUCTURE, INTAKE AND EXHAUST AIR SHALL BE PROPERLY VENTED TO PREVENT MIXING AND RECIRCULATION OF EXHAUST AIR WITH THE INTAKE AIR.

REV.	DESCRIPTION	ECO	BY	DATE
A	RELEASED FOR PRODUCTION PER RFE 1566	-	RDM	09/14/04

DIMENSIONS ARE INCH AND TOLERANCES ARE AS FOLLOWS UNLESS OTHERWISE SPECIFIED

.X	±0.1
.XX	±0.02
.XXX	±0.005
ANGLES	±1°

DESIGNED BY: SSL DATE: 9/4/03
DRAWN BY: SSL DATE: 9/4/03
APPROVED BY: DATE:

ADAPTIVE Adaptive Micro Systems LLC 7840 North 86th Street Milwaukee, WI 53224 USA

TITLE: ALPHA ECLIPSE 3600 MECHANICAL DETAILS

SIZE	DOCUMENT NO.	REVISION
C	11800001-07	A

SCALE: 1:10 STATUS: Released SHT 1 of 5

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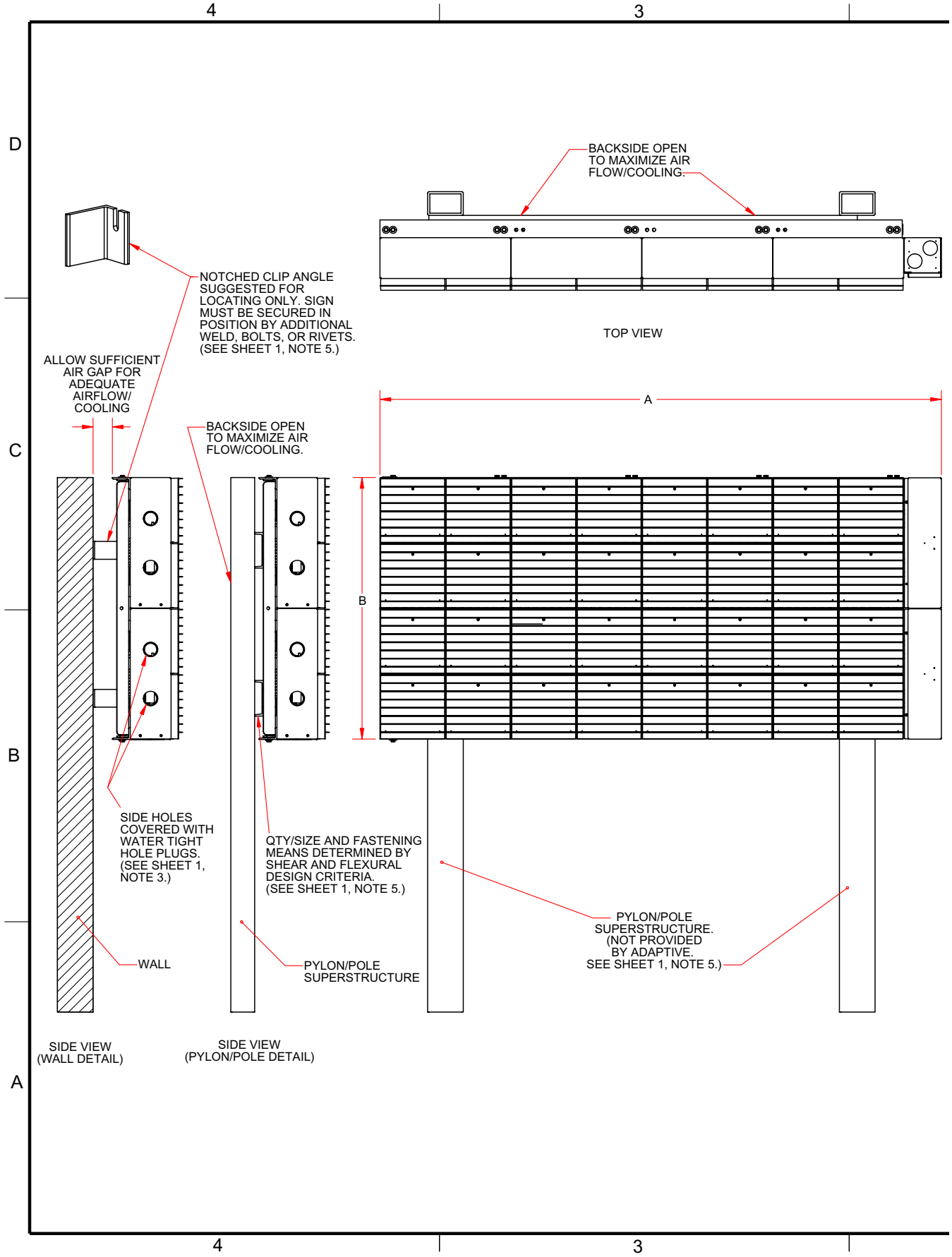
Sign mounting (sheet 2)



Model Number Explanation:

3600 - 64 x 16 R/A/RGB

- Red/Amber/RGB lamp
- Width (Pixel Columns) x Height (Pixel Rows)
- Series Designation

Notes:

1) Table represents standard single sign sections only. Dimensions include either Left or Right mounted wireway. Location to be specified at time of order. See note 2 for signs exceeding table values.

2) Contact Adaptive for information about multiple sign sections which are available up to 256x128.

3) All dimensions ±.50" [1]

4) Weight ±10%

SIGN SECTION MODEL NUMBER	SIGN WEIGHT (lbs)	[1]DIM "A"	[1]DIM "B"
AlphaEclipse 3600 -32x16 R/A/RGB	100	50.43	22.05
AlphaEclipse 3600 -48x16 R/A/RGB	150	72.48	22.05
AlphaEclipse 3600 -64x16 R/A/RGB	200	94.53	22.05
AlphaEclipse 3600 -80x16 R/A/RGB	250	116.58	22.05
AlphaEclipse 3600 -96x16 R/A/RGB	300	138.62	22.05
AlphaEclipse 3600 -112x16 R/A/RGB	350	160.67	22.05
AlphaEclipse 3600 -128x16 R/A/RGB	400	182.72	22.05
AlphaEclipse 3600 -144x16 R/A/RGB	450	204.76	22.05
AlphaEclipse 3600 -160x16 R/A/RGB	500	226.81	22.05
AlphaEclipse 3600 -176x16 R/A/RGB	550	248.86	22.05
AlphaEclipse 3600 -32x32 R/A/RGB	200	50.43	44.09
AlphaEclipse 3600 -48x32 R/A/RGB	300	72.48	44.09
AlphaEclipse 3600 -64x32 R/A/RGB	400	94.53	44.09
AlphaEclipse 3600 -80x32 R/A/RGB	500	116.58	44.09
AlphaEclipse 3600 -96x32 R/A/RGB	600	138.62	44.09
AlphaEclipse 3600 -112x32 R/A/RGB	700	160.67	44.09
AlphaEclipse 3600 -128x32 R/A/RGB	800	182.72	44.09
AlphaEclipse 3600 -144x32 R/A/RGB	900	204.76	44.09
AlphaEclipse 3600 -160x32 R/A/RGB	1000	226.81	44.09
AlphaEclipse 3600 -176x32 R/A/RGB	1100	248.86	44.09
AlphaEclipse 3600 -32x48 R/A/RGB	300	50.43	66.14
AlphaEclipse 3600 -48x48 R/A/RGB	450	72.48	66.14
AlphaEclipse 3600 -64x48 R/A/RGB	600	94.53	66.14
AlphaEclipse 3600 -80x48 R/A/RGB	750	116.58	66.14
AlphaEclipse 3600 -96x48 R/A/RGB	900	138.62	66.14
AlphaEclipse 3600 -112x48 R/A/RGB	1050	160.67	66.14
AlphaEclipse 3600 -128x48 R/A/RGB	1200	182.72	66.14
AlphaEclipse 3600 -144x48 R/A/RGB	1350	204.76	66.14
AlphaEclipse 3600 -160x48 R/A/RGB	1500	226.81	66.14
AlphaEclipse 3600 -176x48 R/A/RGB	1650	248.86	66.14
AlphaEclipse 3600 -32x64 R/A/RGB	400	50.43	88.19
AlphaEclipse 3600 -48x64 R/A/RGB	600	72.48	88.19
AlphaEclipse 3600 -64x64 R/A/RGB	800	94.53	88.19
AlphaEclipse 3600 -80x64 R/A/RGB	1000	116.58	88.19
AlphaEclipse 3600 -96x64 R/A/RGB	1200	138.62	88.19
AlphaEclipse 3600 -112x64 R/A/RGB	1400	160.67	88.19
AlphaEclipse 3600 -128x64 R/A/RGB	1600	182.72	88.19
AlphaEclipse 3600 -144x64 R/A/RGB	1800	204.76	88.19
AlphaEclipse 3600 -160x64 R/A/RGB	2000	226.81	88.19
AlphaEclipse 3600 -176x64 R/A/RGB	2200	248.86	88.19
AlphaEclipse 3600 -32x80 R/A/RGB	500	50.43	110.24
AlphaEclipse 3600 -48x80 R/A/RGB	750	72.48	110.24
AlphaEclipse 3600 -64x80 R/A/RGB	1000	94.53	110.24
AlphaEclipse 3600 -80x80 R/A/RGB	1250	116.58	110.24
AlphaEclipse 3600 -96x80 R/A/RGB	1500	138.62	110.24
AlphaEclipse 3600 -112x80 R/A/RGB	1750	160.67	110.24
AlphaEclipse 3600 -128x80 R/A/RGB	2000	182.72	110.24
AlphaEclipse 3600 -144x80 R/A/RGB	2250	204.76	110.24
AlphaEclipse 3600 -160x80 R/A/RGB	2500	226.81	110.24
AlphaEclipse 3600 -176x80 R/A/RGB	2750	248.86	110.24

DIMENSIONS ARE INCH AND TOLERANCES ARE AS FOLLOWS UNLESS OTHERWISE SPECIFIED

.X	±0.1
.XX	±0.02
.XXX	±0.005
ANGLES	±1°

DESIGNED BY: SSL DATE: 9/4/03
DRAWN BY: SSL DATE: 9/4/03
APPROVED BY: DATE:

ADAPTIVE Adaptive Micro Systems LLC 7840 North 86th Street Milwaukee, WI 53224 USA

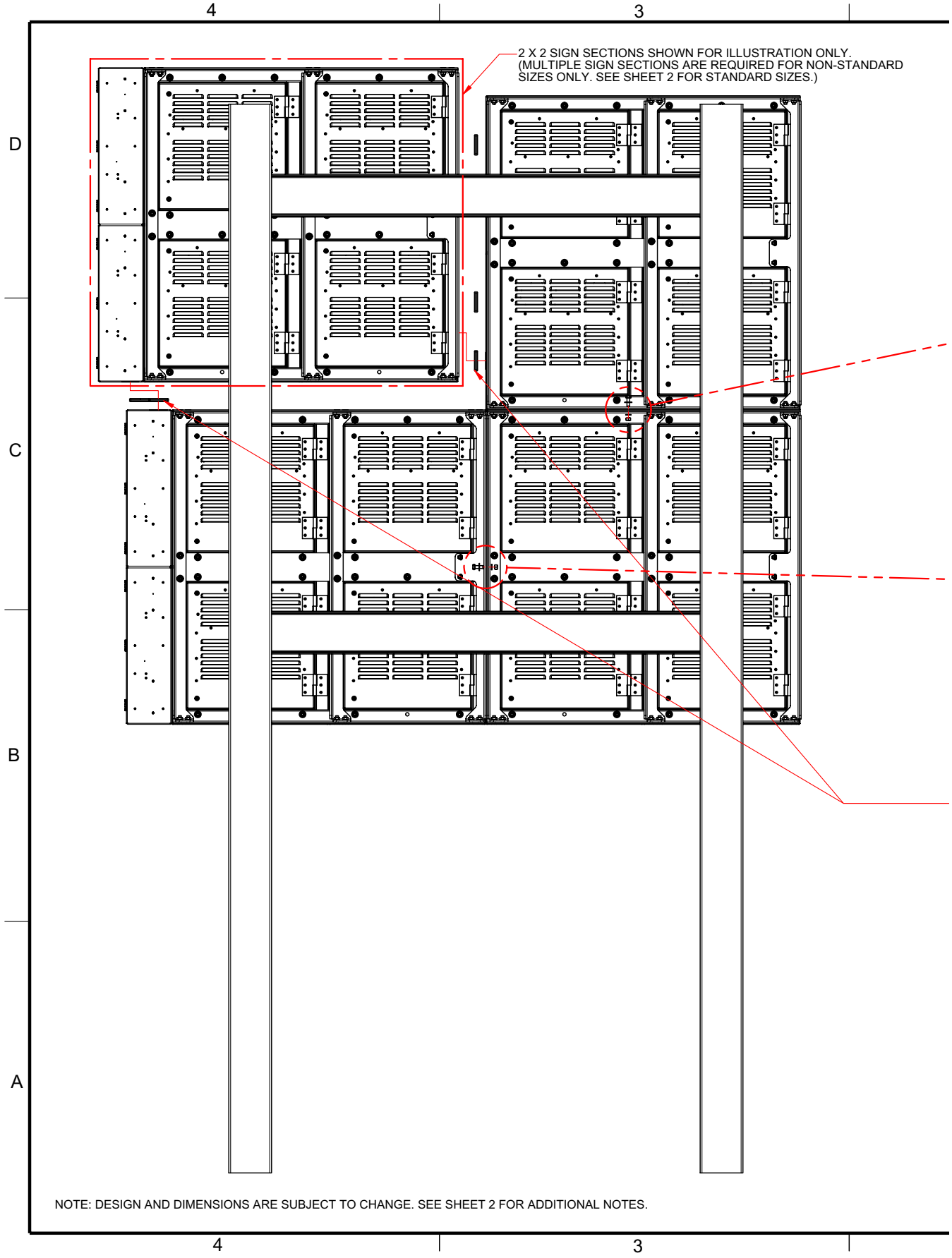
TITLE: ALPHA ECLIPSE 3600 MECHANICAL DETAILS

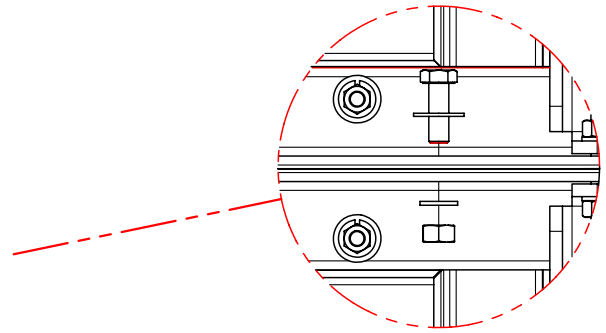
SIZE: C | DOCUMENT NO.: 11800001-07 | REVISION: A

SCALE: 1:12 | STATUS: Released | SHT 2 of 5

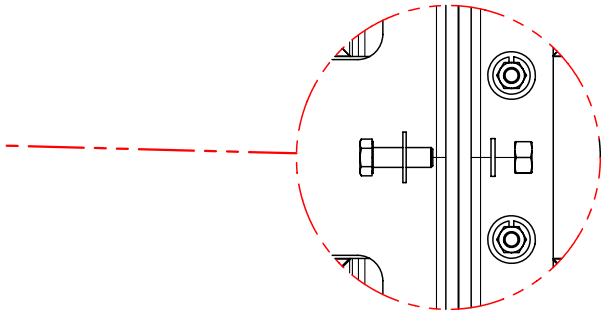
THIS DRAWING IS THE PROPERTY OF ADAPTIVE MICRO SYSTEMS LLC AND SHALL NOT BE DUPLICATED WITHOUT PERMISSION

Sign mounting (sheet 3)

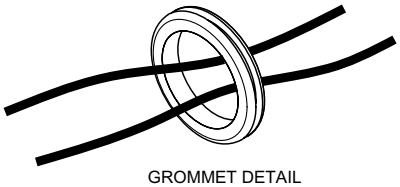




BOLT TOGETHER FOR ALIGNMENT USING HOLES PROVIDED.
BOLTS MUST BE USED FOR ALIGNMENT ONLY
AND NOT AS A STRUCTURAL JOINT. (SEE SHEET 1, NOTE 5.)



IINSTALL GROMMETS (PROVIDED) BETWEEN SIGN SECTIONS. ALL DATA AND POWER CABLES MUST BE ROUTED THROUGH THE GROMMETS. POWER AND DATA CABLES MUST BE ROUTED THROUGH SEPARATE HOLES. POWER AND FIBER OPTIC CAN BE ROUTED THROUGH THE SAME HOLE IF NECESSARY.



GROMMET DETAIL
SCALE 1:2

DIMENSIONS ARE INCH AND TOLERANCES ARE AS FOLLOWS UNLESS OTHERWISE SPECIFIED

.X	±0.1
.XX	±0.02
.XXX	±0.005
ANGLES	±1°

DESIGNED BY	SSL	DATE 9/4/03
DRAWN BY	SSL	DATE 9/4/03
APPROVED BY		DATE

ADAPTIVE
Adaptive Micro Systems LLC
7840 North 86th Street
Milwaukee, WI 53224 USA

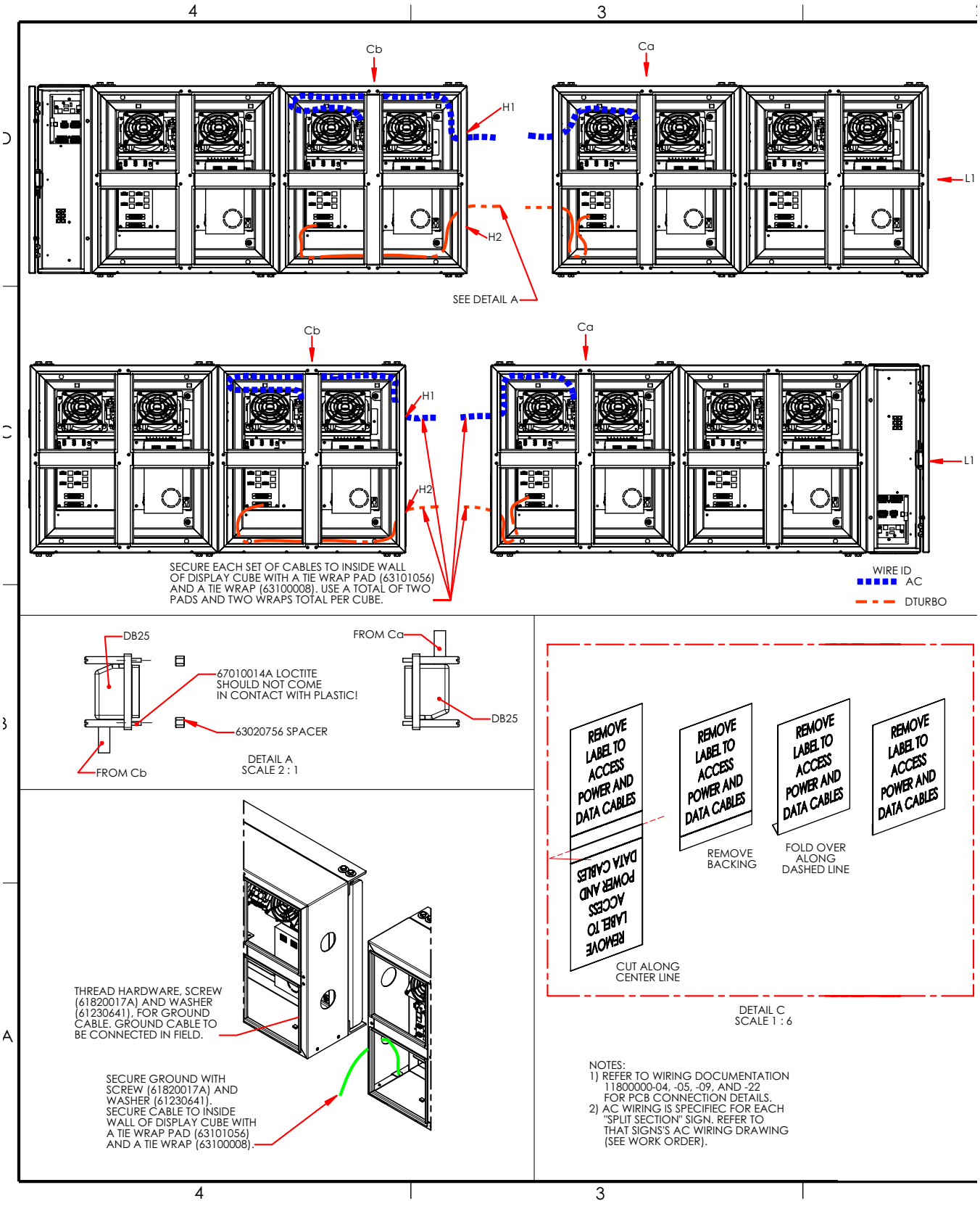
TITLE
ALPHA ECLIPSE 3600 MECHANICAL DETAILS

SIZE	DOCUMENT NO.	REVISION
C	11800001-07	A

SCALE:	STATUS:	SHT
1:10	Released	3 of 5

THIS DRAWING IS THE PROPERTY OF ADAPTIVE MICRO SYSTEMS LLC AND SHALL NOT BE DUPLICATED WITHOUT PERMISSION

Multiple section sign, vertical split assembly



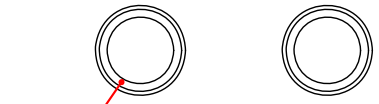
SPLIT SECTION WIRING

Between Ca & Cb (Left Wireway)

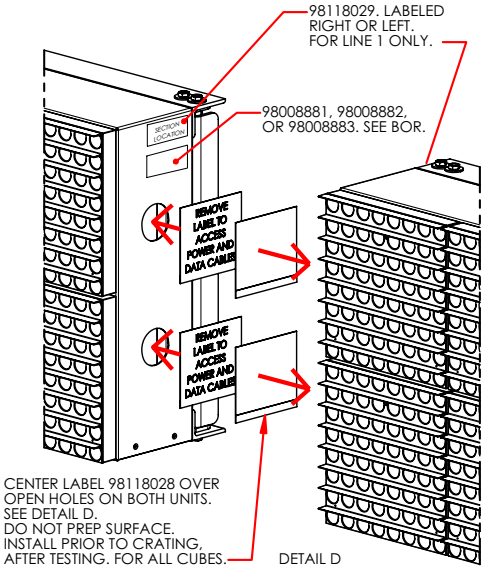
Name	From Module No.	From Name	Via Wire No.	Via Color	Via Length	To Module No.	To Name
AC	LxCb	PCB1-P2	71120304	N/A	24"	LxCb	H1
	LxCb	AP-TB1-B1	71120301	BLK	50"	LxCb	H1
		AP-TB1-B2		WHT			
		AP-TB1-B3		GRN			
	LxCa	PCB1-P1	71120302	N/A	62"	LxCa	H1
Dturbo	LxCb	PCB2-P8	71240901	N/A	40"	LxCb	H2
	LxCa	PCB2-P7	71240901	N/A	40"	LxCa	H2
Ground	LxCa	GND2	71120116	N/A	13"	LxCa	H2

Between Ca & Cb (Right Wireway)

Name	From Module No.	From Name	Via Wire No.	Via Color	Via Length	To Module No.	To Name
AC	LxCa	PCB1-P1	71120304	N/A	24"	LxCa	H1
	LxCa	AP-TB1-A1	71120301	BLK	50"	LxCa	H1
		AP-TB1-A2		WHT			
		AP-TB1-A3		GRN			
	LxCb	PCB1-P2	71120302	N/A	62"	LxCb	H1
Dturbo	LxCb	PCB2-P8	71240901	N/A	40"	LxCb	H2
	LxCa	PCB2-P7	71240901	N/A	40"	LxCa	H2
Ground	LxCa	GND2	71120116	N/A	13"	LxCa	H2



DETAIL B
SCALE 1 : 3



DETAIL D

REV.	DESCRIPTION	ECO	BY	DATE
A	RELEASED FOR PRODUCTION		SSL	12/2/03

DIMENSIONS ARE INCH AND TOLERANCES ARE AS FOLLOWS UNLESS OTHERWISE SPECIFIED
.X ±0.1
.XX ±0.02
.XXX ±0.005
ANGLES ±1°

DRAWN BY: SSL DATE: 12/2/03
CHECKED BY: DATE:
APPROVED BY: DATE:

ADAPTIVE Adaptive Micro Systems LLC 7840 North 86th Street Milwaukee, WI 53224 USA

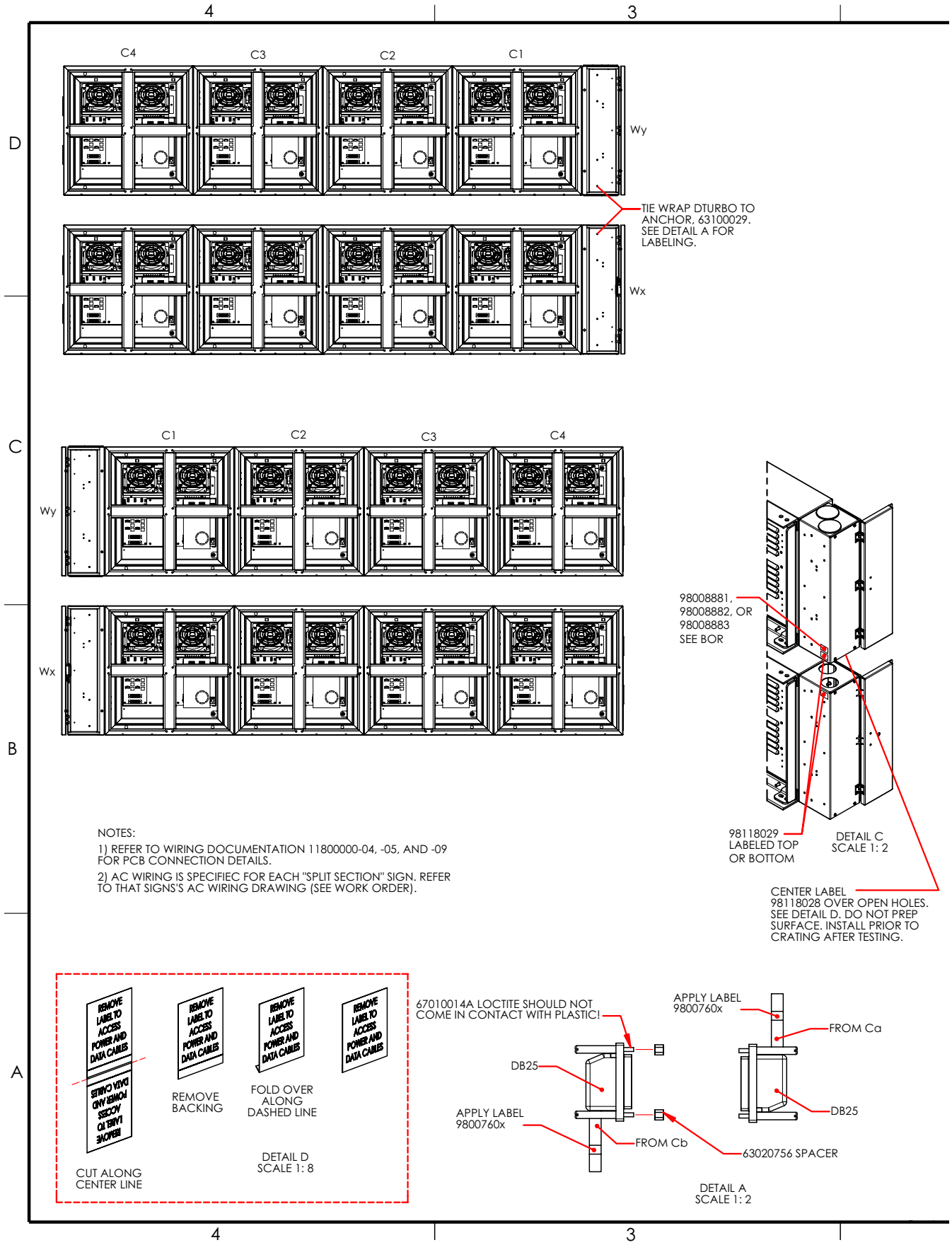
TITLE: P1180, MULTI-SECTION, VERTICAL SPLIT ASSEMBLY

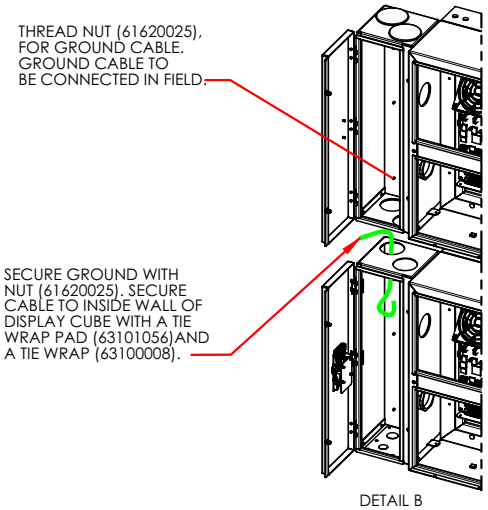
SIZE: C DOCUMENT NO.: 11800000-15 REVISION: A+

SCALE: 1:8 STATUS: Released SHT: 1 of 1

THIS DRAWING IS THE PROPERTY OF ADAPTIVE MICRO SYSTEMS LLC AND SHALL NOT BE DUPLICATED WITHOUT PERMISSION

Multiple section sign, horizontal split assembly





DETAIL B
SCALE 1 : 8

SPLIT SECTION WIRING

Between Wx & Wy (Right Wireway)

Name	From		Via			To		Label (see Detail A)
	Module No.	Name	Wire No.	Color	Length	Module No.	Name	
Dturbo[1] (128 pixel total height)	L1C2	PCB6-P1	71240901	N/A	40"	L1C1	PCB2-P8	98007601
	L1C2	PCB6-P2	71241802	N/A	114"	L2C1	PCB2-P8	98007602
	L1C2	PCB6-P3	71241803	N/A	138"	L3C1	PCB2-P8	98007603
	L1C2	PCB6-P4	71241805	N/A	162"	L4C1	PCB2-P8	98007604
	L1C2	PCB6-P5	71241805	N/A	162"	L4Wx	H3	98007605
	L1C2	PCB6-P6	71241805	N/A	162"	L4Wx	H3	98007606
	L1C2	PCB6-P7	71241805	N/A	162"	L4Wx	H3	98007607
	L1C2	PCB6-P8	71241805	N/A	162"	L4Wx	H3	98007608
	L5Wy	H3	71240901	N/A	40"	L5C1	PCB2-P8	98007605
	L5Wy	H3	71240902	N/A	90"	L6C1	PCB2-P8	98007606
	L5Wy	H3	71240902	N/A	90"	L7C1	PCB2-P8	98007607
	L5Wy	H3	71241802	N/A	114"	L8C1	PCB2-P8	98007608
Dturbo[1] (112 pixel total height)	L1C2	PCB6-P1	71240901	N/A	40"	L1C1	PCB2-P8	98007601
	L1C2	PCB6-P2	71241802	N/A	114"	L2C1	PCB2-P8	98007602
	L1C2	PCB6-P3	71241803	N/A	138"	L3C1	PCB2-P8	98007603
	L1C2	PCB6-P4	71241805	N/A	162"	L4C1	PCB2-P8	98007604
	L1C2	PCB6-P5	71241805	N/A	162"	L4Wx	H3	98007605
	L1C2	PCB6-P6	71241805	N/A	162"	L4Wx	H3	98007606
	L1C2	PCB6-P7	71241805	N/A	162"	L4Wx	H3	98007607
	L5Wy	H3	71240901	N/A	40"	L5C1	PCB2-P8	98007605
	L5Wy	H3	71240902	N/A	90"	L6C1	PCB2-P8	98007606
	L5Wy	H3	71240902	N/A	90"	L7C1	PCB2-P8	98007607
Dturbo[1] (96 pixel total height)	L1C2	PCB6-P1	71240901	N/A	40"	L1C1	PCB2-P8	98007601
	L1C2	PCB6-P2	71241802	N/A	114"	L2C1	PCB2-P8	98007602
	L1C2	PCB6-P3	71241803	N/A	138"	L3C1	PCB2-P8	98007603
	L1C2	PCB6-P4	71241803	N/A	138"	L3Wx	H3	98007604
	L1C2	PCB6-P5	71241803	N/A	138"	L3Wx	H3	98007605
	L1C2	PCB6-P6	71241803	N/A	138"	L3Wx	H3	98007606
	L4Wy	H3	71240901	N/A	40"	L4C1	PCB2-P8	98007604
	L4Wy	H3	71240902	N/A	90"	L5C1	PCB2-P8	98007605
	L4Wy	H3	71240902	N/A	90"	L6C1	PCB2-P8	98007606

Between Wx & Wy (Left Wireway)

Name	From		Via			To		Label (see Detail A)
	Module No.	Name	Wire No.	Color	Length	Module No.	Name	
Dturbo[1] (128 pixel total height)	L1C2	PCB6-P1	71241810	N/A	52"	L1C1	PCB2-P8	98007601
	L1C2	PCB6-P2	71240902	N/A	90"	L2C1	PCB2-P8	98007602
	L1C2	PCB6-P3	71241802	N/A	114"	L3C1	PCB2-P8	98007603
	L1C2	PCB6-P4	71241803	N/A	138"	L4C1	PCB2-P8	98007604
	L1C2	PCB6-P5	71241803	N/A	138"	L4Wx	H3	98007605
	L1C2	PCB6-P6	71241803	N/A	138"	L4Wx	H3	98007606
	L1C2	PCB6-P7	71241803	N/A	138"	L4Wx	H3	98007607
	L1C2	PCB6-P8	71241803	N/A	138"	L4Wx	H3	98007608
	L5Wy	H3	71240901	N/A	40"	L5C1	PCB2-P8	98007605
	L5Wy	H3	71240902	N/A	90"	L6C1	PCB2-P8	98007606
	L5Wy	H3	71240902	N/A	90"	L7C1	PCB2-P8	98007607
	L5Wy	H3	71241802	N/A	114"	L8C1	PCB2-P8	98007608
Dturbo[1] (112 pixel total height)	L1C2	PCB6-P1	71241810	N/A	52"	L1C1	PCB2-P8	98007601
	L1C2	PCB6-P2	71240902	N/A	90"	L2C1	PCB2-P8	98007602
	L1C2	PCB6-P3	71241802	N/A	114"	L3C1	PCB2-P8	98007603
	L1C2	PCB6-P4	71241803	N/A	138"	L4C1	PCB2-P8	98007604
	L1C2	PCB6-P5	71241803	N/A	138"	L4Wx	H3	98007605
	L1C2	PCB6-P6	71241803	N/A	138"	L4Wx	H3	98007606
	L1C2	PCB6-P7	71241803	N/A	138"	L4Wx	H3	98007607
	L5Wy	H3	71240901	N/A	40"	L5C1	PCB2-P8	98007605
	L5Wy	H3	71240902	N/A	90"	L6C1	PCB2-P8	98007606
	L5Wy	H3	71240902	N/A	90"	L7C1	PCB2-P8	98007607
Dturbo[1] (96 pixel total height)	L1C2	PCB6-P1	71241810	N/A	52"	L1C1	PCB2-P8	98007601
	L1C2	PCB6-P2	71240902	N/A	90"	L2C1	PCB2-P8	98007602
	L1C2	PCB6-P3	71241802	N/A	114"	L3C1	PCB2-P8	98007603
	L1C2	PCB6-P4	71241803	N/A	138"	L3Wx	H3	98007604
	L1C2	PCB6-P5	71241803	N/A	138"	L3Wx	H3	98007605
	L1C2	PCB6-P6	71241803	N/A	138"	L3Wx	H3	98007606
	L4Wy	H3	71240901	N/A	40"	L4C1	PCB2-P8	98007604
	L4Wy	H3	71240902	N/A	90"	L5C1	PCB2-P8	98007605
	L4Wy	H3	71240902	N/A	90"	L6C1	PCB2-P8	98007606

1 - NOTE: USE TOTAL SIGN HEIGHT.

REV.	DESCRIPTION	ECO	BY	DATE
A	RELEASED FOR PRODUCTION		SSL	12/2/03

DIMENSIONS ARE INCH AND TOLERANCES ARE AS FOLLOWS UNLESS OTHERWISE SPECIFIED
.X ±0.1
.XX ±0.02
.XXX ±0.005
ANGLES ±1°

DRAWN BY: SSL DATE: 12/2/03
CHECKED BY: DATE:
APPROVED BY: DATE:

ADAPTIVE Adaptive Micro Systems LLC 7840 North 86th Street Milwaukee, WI 53224 USA

TITLE: P1180, MULTI-SECTION, HORIZONTAL SPLIT ASSEMBLY

SIZE: C DOCUMENT NO.: 11800000-16 REVISION: A
SCALE: 1:8 STATUS: Released SHT: 1 of 1

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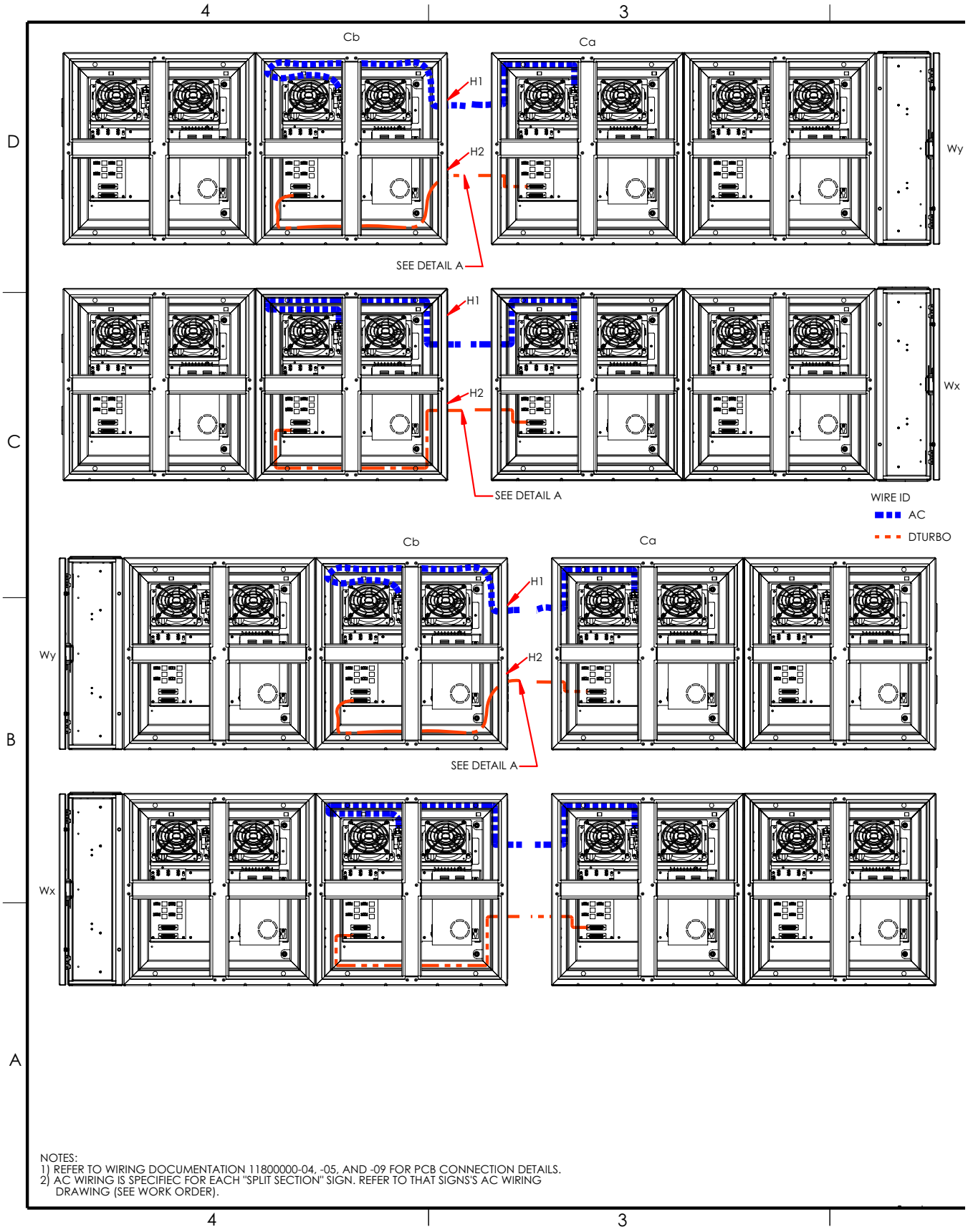
Multiple section sign, vertical/horizontal split (sheet 1 of 2)



NOTES:
1) REFER TO WIRING DOCUMENTATION 11800000-04, -05, AND -09 FOR PCB CONNECTION DETAILS.
2) AC WIRING IS SPECIFIEC FOR EACH "SPLIT SECTION" SIGN. REFER TO THAT SIGNS'S AC WIRING DRAWING (SEE WORK ORDER).

2 1

SPLIT SECTION WIRING

Between Wx & Wy (Right Wireway)

	From		Via			To		Label (see
Name	Module No.	Name	Wire No.	Color	Length	Module No.	Name	Detail A)
Dturbo[1] (128 pixel total height)	L1C2	PCB6-P1	71240901	N/A	40"	L1C1	PCB2-P8	98007601
	L1C2	PCB6-P2	71241802	N/A	114"	L2C1	PCB2-P8	98007602
	L1C2	PCB6-P3	71241803	N/A	138"	L3C1	PCB2-P8	98007603
	L1C2	PCB6-P4	71241805	N/A	162"	L4C1	PCB2-P8	98007604
	L1C2	PCB6-P5	71241805	N/A	162"	L4Wx	H3	98007605
	L1C2	PCB6-P6	71241805	N/A	162"	L4Wx	H3	98007606
	L1C2	PCB6-P7	71241805	N/A	162"	L4Wx	H3	98007607
	L1C2	PCB6-P8	71241805	N/A	162"	L4Wx	H3	98007608
	L5Wy	H3	71240901	N/A	40"	L5C1	PCB2-P8	98007605
	L5Wy	H3	71240902	N/A	90"	L6C1	PCB2-P8	98007606
	L5Wy	H3	71240902	N/A	90"	L7C1	PCB2-P8	98007607
	L5Wy	H3	71241802	N/A	114"	L8C1	PCB2-P8	98007608
Dturbo[1] (112 pixel total height)	L1C2	PCB6-P1	71240901	N/A	40"	L1C1	PCB2-P8	98007601
	L1C2	PCB6-P2	71241802	N/A	114"	L2C1	PCB2-P8	98007602
	L1C2	PCB6-P3	71241803	N/A	138"	L3C1	PCB2-P8	98007603
	L1C2	PCB6-P4	71241805	N/A	162"	L4C1	PCB2-P8	98007604
	L1C2	PCB6-P5	71241805	N/A	162"	L4Wx	H3	98007605
	L1C2	PCB6-P6	71241805	N/A	162"	L4Wx	H3	98007606
	L1C2	PCB6-P7	71241805	N/A	162"	L4Wx	H3	98007607
	L5Wy	H3	71240901	N/A	40"	L5C1	PCB2-P8	98007605
	L5Wy	H3	71240902	N/A	90"	L6C1	PCB2-P8	98007606
	L5Wy	H3	71240902	N/A	90"	L7C1	PCB2-P8	98007607
Dturbo[1] (96 pixel total height)	L1C2	PCB6-P1	71240901	N/A	40"	L1C1	PCB2-P8	98007601
	L1C2	PCB6-P2	71241802	N/A	114"	L2C1	PCB2-P8	98007602
	L1C2	PCB6-P3	71241803	N/A	138"	L3C1	PCB2-P8	98007603
	L1C2	PCB6-P4	71241803	N/A	138"	L3Wx	H3	98007604
	L1C2	PCB6-P5	71241803	N/A	138"	L3Wx	H3	98007605
	L1C2	PCB6-P6	71241803	N/A	138"	L3Wx	H3	98007606
	L4Wy	H3	71240901	N/A	40"	L4C1	PCB2-P8	98007604
	L4Wy	H3	71240902	N/A	90"	L5C1	PCB2-P8	98007605
	L4Wy	H3	71240902	N/A	90"	L6C1	PCB2-P8	98007606

Between Wx & Wy (Left Wireway)

	From		Via			To		Label (see
Name	Module No.	Name	Wire No.	Color	Length	Module No.	Name	Detail A)
Dturbo[1] (128 pixel total height)	L1C2	PCB6-P1	71241810	N/A	52"	L1C1	PCB2-P8	98007601
	L1C2	PCB6-P2	71240902	N/A	90"	L2C1	PCB2-P8	98007602
	L1C2	PCB6-P3	71241802	N/A	114"	L3C1	PCB2-P8	98007603
	L1C2	PCB6-P4	71241803	N/A	138"	L4C1	PCB2-P8	98007604
	L1C2	PCB6-P5	71241803	N/A	138"	L4Wx	H3	98007605
	L1C2	PCB6-P6	71241803	N/A	138"	L4Wx	H3	98007606
	L1C2	PCB6-P7	71241803	N/A	138"	L4Wx	H3	98007607
	L1C2	PCB6-P8	71241803	N/A	138"	L4Wx	H3	98007608
	L5Wy	H3	71240901	N/A	40"	L5C1	PCB2-P8	98007605
	L5Wy	H3	71240902	N/A	90"	L6C1	PCB2-P8	98007606
	L5Wy	H3	71240902	N/A	90"	L7C1	PCB2-P8	98007607
	L5Wy	H3	71241802	N/A	114"	L8C1	PCB2-P8	98007608
Dturbo[1] (112 pixel total height)	L1C2	PCB6-P1	71241810	N/A	52"	L1C1	PCB2-P8	98007601
	L1C2	PCB6-P2	71240902	N/A	90"	L2C1	PCB2-P8	98007602
	L1C2	PCB6-P3	71241802	N/A	114"	L3C1	PCB2-P8	98007603
	L1C2	PCB6-P4	71241803	N/A	138"	L4C1	PCB2-P8	98007604
	L1C2	PCB6-P5	71241803	N/A	138"	L4Wx	H3	98007605
	L1C2	PCB6-P6	71241803	N/A	138"	L4Wx	H3	98007606
	L1C2	PCB6-P7	71241803	N/A	138"	L4Wx	H3	98007607
	L5Wy	H3	71240901	N/A	40"	L5C1	PCB2-P8	98007605
	L5Wy	H3	71240902	N/A	90"	L6C1	PCB2-P8	98007606
	L5Wy	H3	71240902	N/A	90"	L7C1	PCB2-P8	98007607
Dturbo[1] (96 pixel total height)	L1C2	PCB6-P1	71241810	N/A	52"	L1C1	PCB2-P8	98007601
	L1C2	PCB6-P2	71240902	N/A	90"	L2C1	PCB2-P8	98007602
	L1C2	PCB6-P3	71241802	N/A	114"	L3C1	PCB2-P8	98007603
	L1C2	PCB6-P4	71241803	N/A	138"	L3Wx	H3	98007604
	L1C2	PCB6-P5	71241803	N/A	138"	L3Wx	H3	98007605
	L1C2	PCB6-P6	71241803	N/A	138"	L3Wx	H3	98007606
	L4Wy	H3	71240901	N/A	40"	L4C1	PCB2-P8	98007604
	L4Wy	H3	71240902	N/A	90"	L5C1	PCB2-P8	98007605
	L4Wy	H3	71240902	N/A	90"	L6C1	PCB2-P8	98007606

1 - NOTE: USE TOTAL SIGN HEIGHT.

SPLIT SECTION WIRING

Between Ca & Cb (Left Wireway)

	From		Via			To	
Name	Module No.	Name	Wire No.	Color	Length	Module No.	Name
AC	LxCb	PCB1-P2	71120304	N/A	24"	LxCb	H1
	LxCb	AP-TB1-B1	71120301	BLK	50"	LxCb	H1
		AP-TB1-B2		WHT			
		AP-TB1-B3		GRN			
	LxCa	PCB1-P1	71120302	N/A	62"	LxCa	H1
Dturbo	LxCb	PCB2-P8	71240901	N/A	40"	LxCb	H2
	LxCa	PCB2-P7	71240901	N/A	40"	LxCa	H2
Ground	LxCa	GND2	71120116	N/A	13"	LxCa	H2

Between Ca & Cb (Right Wireway)

	From		Via			To	
Name	Module No.	Name	Wire No.	Color	Length	Module No.	Name
AC	LxCa	PCB1-P1	71120304	N/A	24"	LxCa	H1
	LxCa	AP-TB1-A1	71120301	BLK	50"	LxCa	H1
		AP-TB1-A2		WHT			
		AP-TB1-A3		GRN			
	LxCb	PCB1-P2	71120302	N/A	62"	LxCb	H1
Dturbo	LxCb	PCB2-P8	71240901	N/A	40"	LxCb	H2
	LxCa	PCB2-P7	71240901	N/A	40"	LxCa	H2
Ground	LxCa	GND2	71120116	N/A	13"	LxCa	H2

REV.	DESCRIPTION	ECO	BY	DATE
A	RELEASED FOR PRODUCTION		SSL	12/2/03

DIMENSIONS ARE INCH AND TOLERANCES ARE AS FOLLOWS UNLESS OTHERWISE SPECIFIED

.X	±0.1
.XX	±0.02
.XXX	±0.005
ANGLES	±1°

DRAWN BY: SSL DATE: 12/2/03
CHECKED BY: DATE:
APPROVED BY: DATE:

ADAPTIVE Adaptive Micro Systems LLC 7840 North 86th Street Milwaukee, WI 53224 USA

TITLE: P1180, MULTI-SECTION, VERT/HOR SPLIT ASSEMBLY

SIZE: C DOCUMENT NO.: 11800000-17 REVISION: A

SCALE: 1:8 STATUS: Released SHT: 1 of 2

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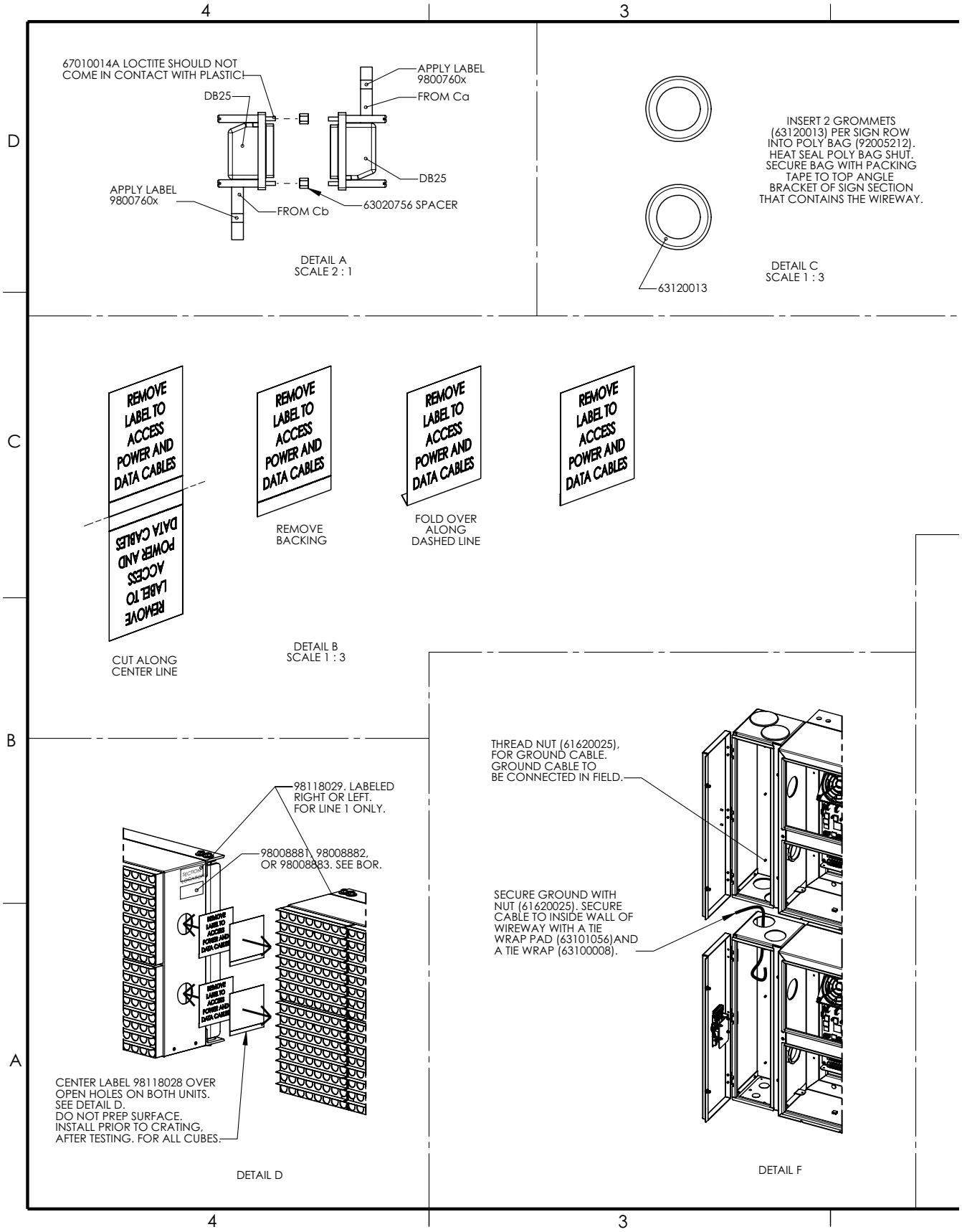
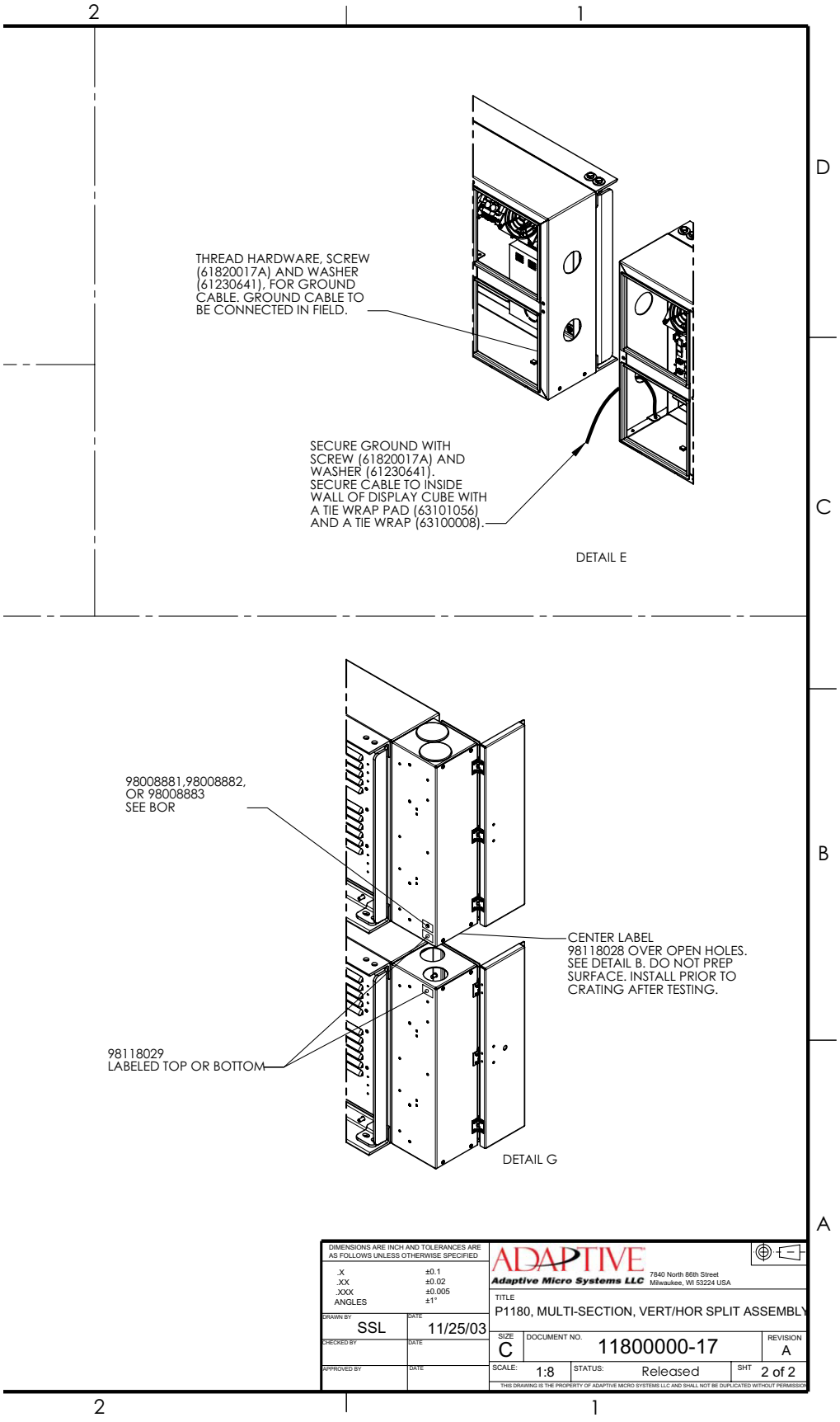
2 1

Multiple section sign, vertical/horizontal split (sheet 2 of 2)




2
1
D
C
B
A
THREAD HARDWARE, SCREW (61820017A) AND WASHER (61230641), FOR GROUND CABLE. GROUND CABLE TO BE CONNECTED IN FIELD.
SECURE GROUND WITH SCREW (61820017A) AND WASHER (61230641). SECURE CABLE TO INSIDE WALL OF DISPLAY CUBE WITH A TIE WRAP PAD (63101056) AND A TIE WRAP (63100008).
DETAIL E
98008881,98008882, OR 98008883 SEE BOR
CENTER LABEL 98118028 OVER OPEN HOLES. SEE DETAIL B. DO NOT PREP SURFACE. INSTALL PRIOR TO CRATING AFTER TESTING.
98118029 LABELED TOP OR BOTTOM
DETAIL G
DIMENSIONS ARE INCH AND TOLERANCES ARE AS FOLLOWS UNLESS OTHERWISE SPECIFIED
.X ±0.1
.XX ±0.02
.XXX ±0.005
ANGLES ±1°
DRAWN BY SSL
DATE 11/25/03
CHECKED BY
APPROVED BY
ADAPTIVE
Adaptive Micro Systems LLC
7840 North 86th Street
Milwaukee, WI 53224 USA
TITLE
P1180, MULTI-SECTION, VERT/HOR SPLIT ASSEMBLY
SIZE C
DOCUMENT NO. 11800000-17
REVISION A
SCALE: 1:8
STATUS: Released
SHT 2 of 2
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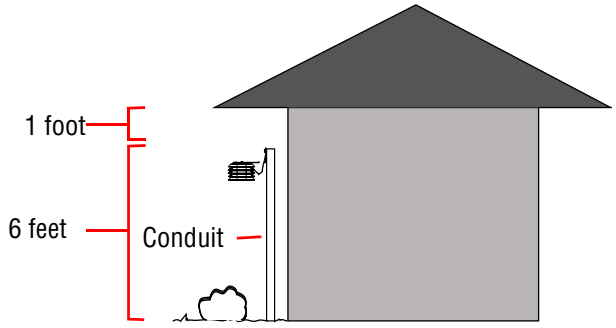
Temperature probe mounting

Mounting guidelines

The picture below is an example of how the temperature probe *should* be mounted:

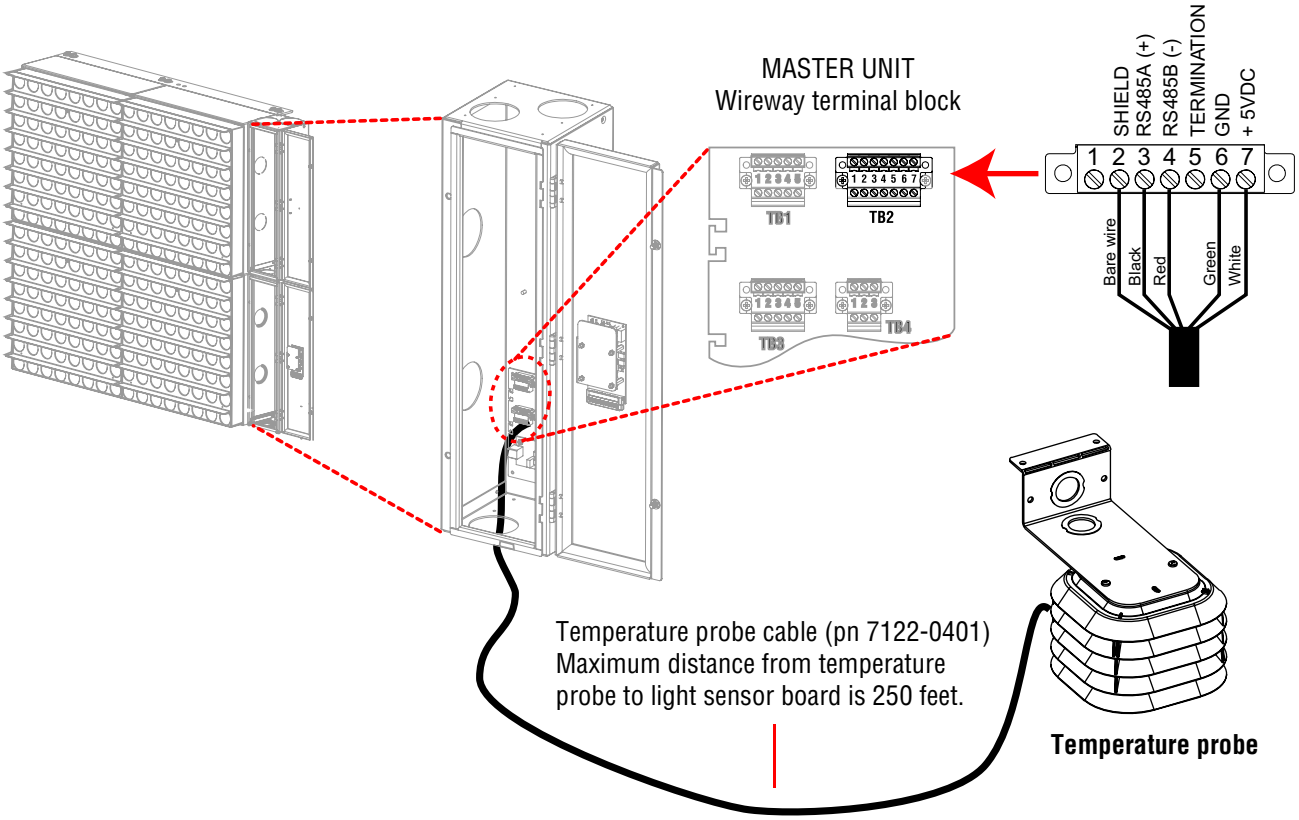
- Shielded from sun
- Located on north side of building
- Air movement not restricted
- Above vegetation



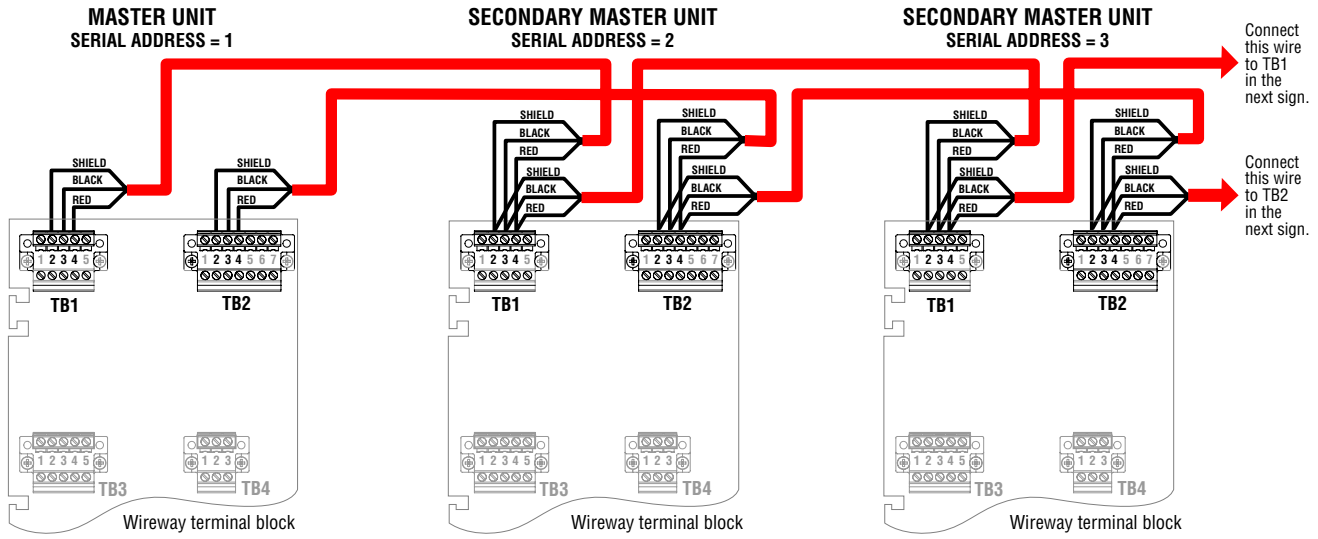
Installation

1. Mount the temperature probe as shown above.
2. Run the temperature probe cable into the wireway of the MASTER UNIT.

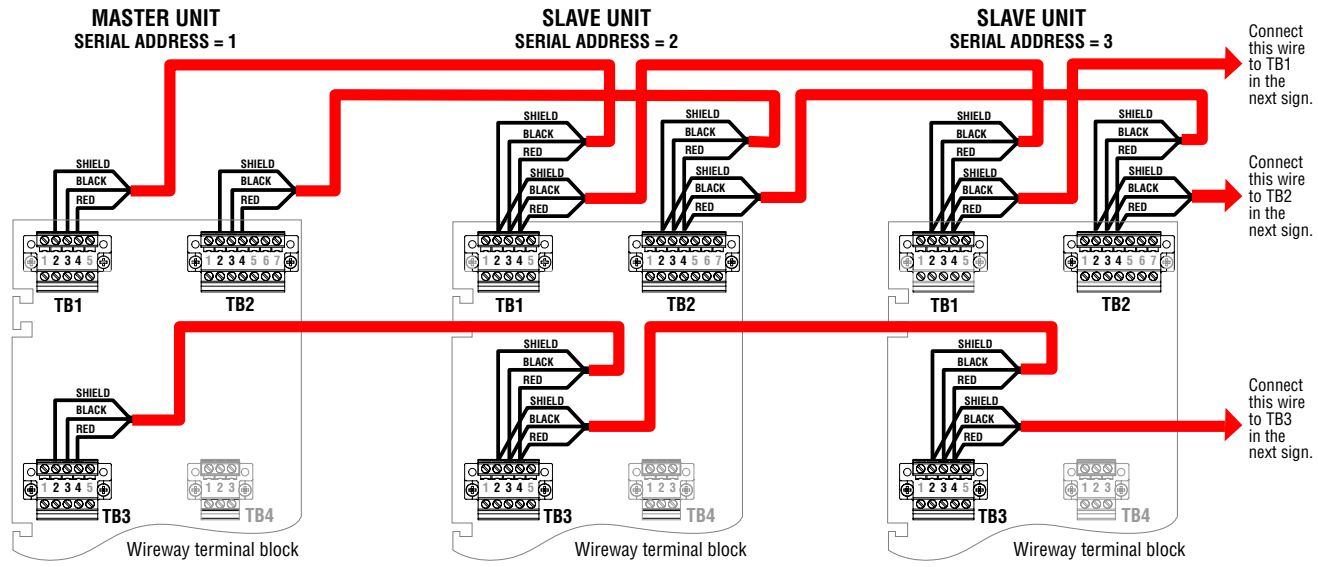
   NOTE: The temperature probe cable and the sign's power wires should be run in different conduits.
3. Connect the temperature probe cable to TB2 on the wireway terminal block as shown below.
4. Close the wireway securely with the screws provided.



MASTER / SECONDARY MASTER sign-to-sign wiring for 3 or more signs



MASTER / SLAVE sign-to-sign wiring for 3 or more signs



Installer Instructions for AlphaEclipse 3600 Signs (Series B)

(Form number 9711-8028B, February 14, 2006)

Instructions for the *Sign Installer*

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414-357-2020, 414-357-2029 (fax), http://www.adaptivedisplays.com

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