



DWG. NO.	REV
PC-104 CARTRIDGE BOARD	2.9

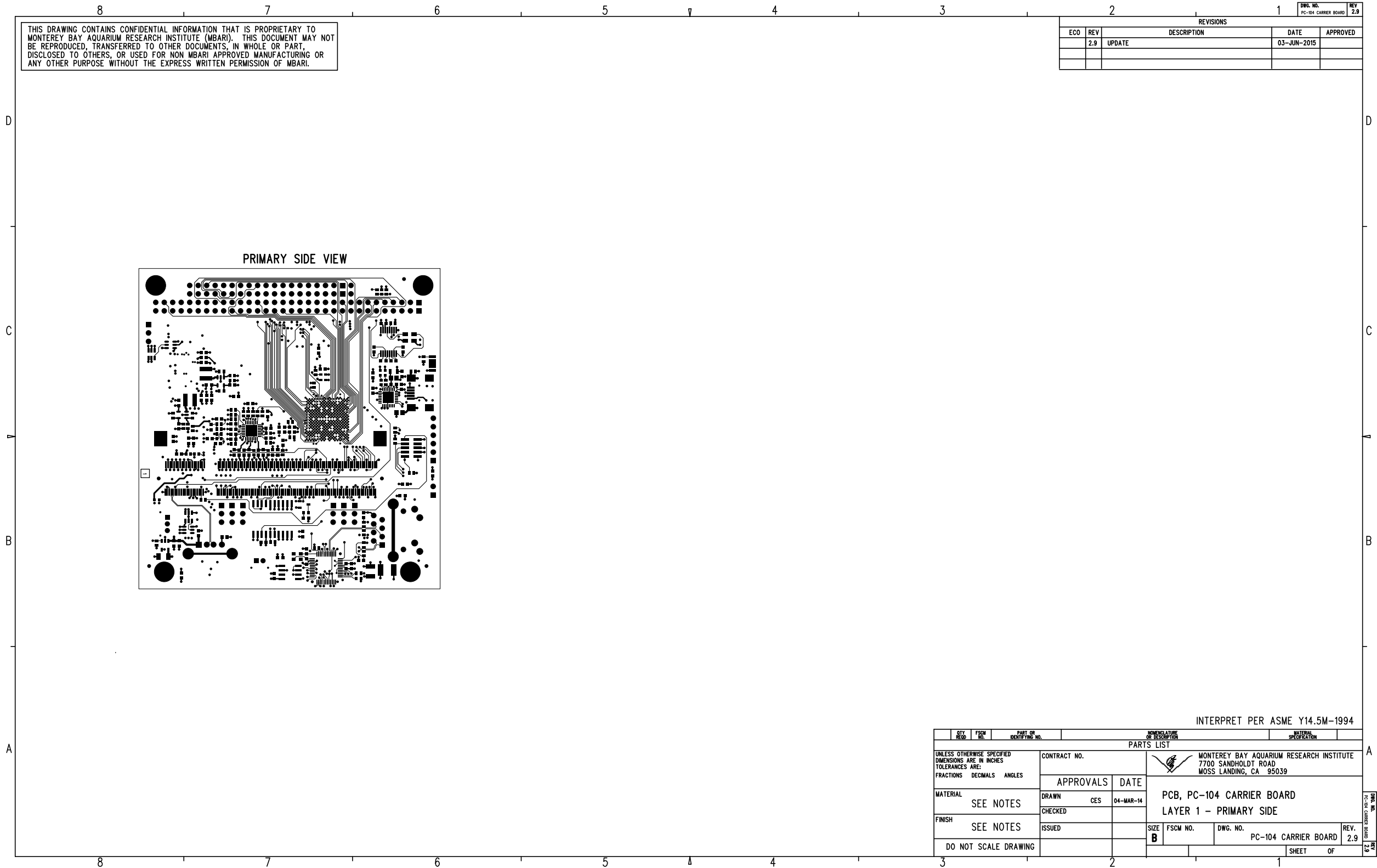
Diagram illustrating the proposed mechanism of action of the compound, showing the interaction of the compound with the target protein and the resulting downstream signaling pathway.

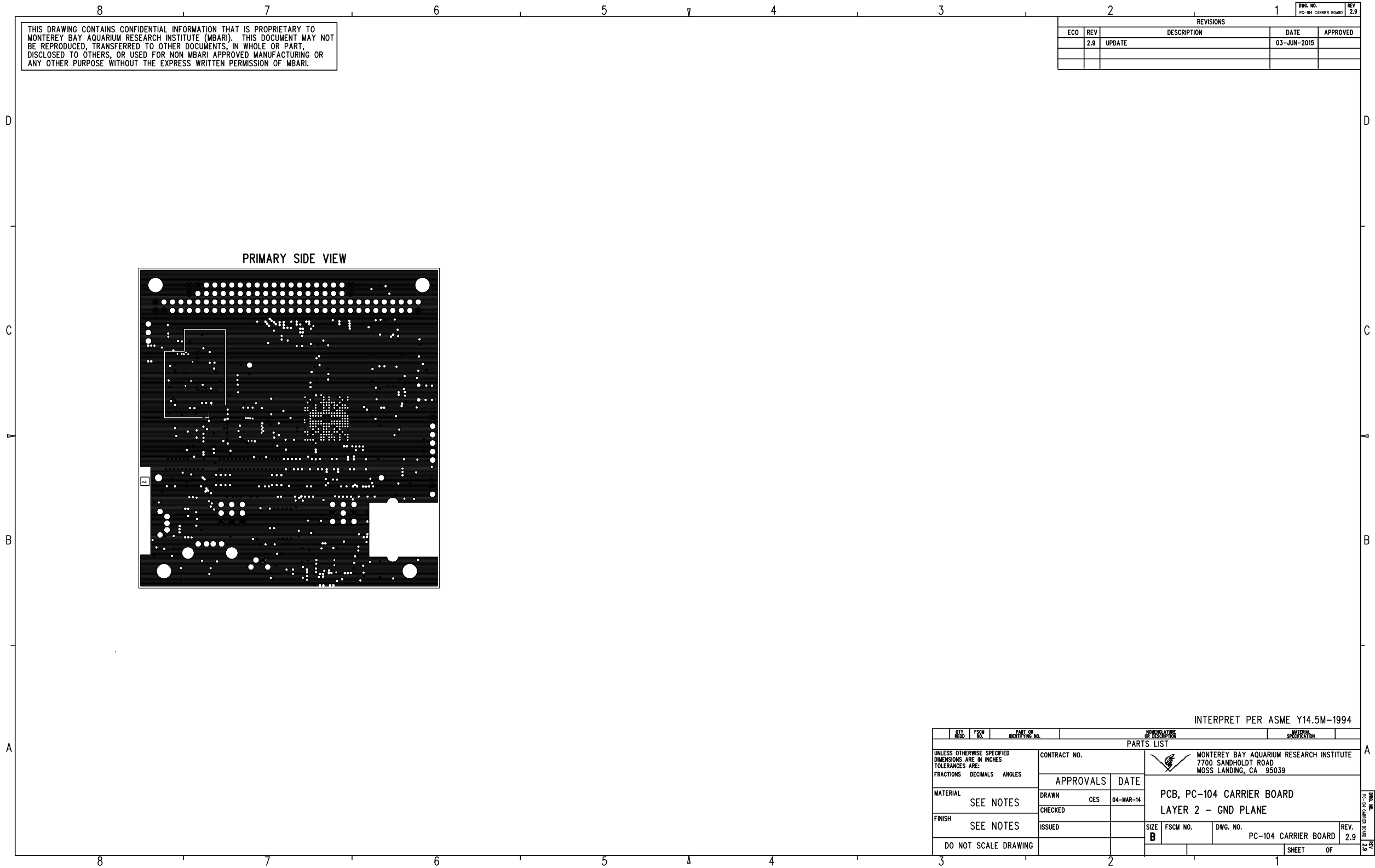
The diagram shows the compound (a benzimidazole derivative) binding to the target protein (a protein with a binding pocket). The binding of the compound to the target protein leads to the activation of the downstream signaling pathway, which involves the activation of the protein kinase C (PKC) and the subsequent activation of the phospholipase C (PLC). The activation of PLC leads to the production of diacylglycerol (DAG) and inositol trisphosphate (IP3), which then activates the protein kinase C (PKC) and the subsequent activation of the phospholipase C (PLC).

The diagram also shows the activation of the protein kinase C (PKC) and the subsequent activation of the phospholipase C (PLC) leading to the production of diacylglycerol (DAG) and inositol trisphosphate (IP3), which then activates the protein kinase C (PKC) and the subsequent activation of the phospholipase C (PLC).

QTY REQD.	FROM NO.	PART OR IDENTIFY NO.	PARTS LIST		NOMENCLATURE OR DESCRIPTION		MATERIAL SPECIFICATION	
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE: FRACTIONS DECIMALS ANGLES			CONTRACT NO.		 MONTEREY BAY AQUARIUM RESEARCH INSTITUTE 7000 SANDHOLT ROAD MOSS LANDING, CA 95039			
MATERIAL SEE NOTES			APPROVALS	DATE	PCB, PC-104 CARRIER BOARD SECONDARY SILKSCREEN			
			DRAWN	CES 04-MAR-14				
FINISH SEE NOTES			CHECKED		SIZE B FSCM NO. DWG. NO. PC-104 CARRIER BOARD REV. 2.9			
			ISSUED					
DO NOT SCALE DRAWING					SHEET OF			

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						INTERPRET PER ASME Y14.5M-1994					
CITY FOOT	FSCM IN.	PART OF IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION			MATERIAL SPECIFICATION					
PARTS LIST											
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE: FRACTIONS DECIMALS ANGLES			CONTRACT NO.		MONTEREY BAY AQUARIUM RESEARCH INSTITUTE 7700 SANDHOLT ROAD MOSS LANDING, CA 95039						
MATERIAL SEE NOTES			APPROVALS		DATE		PCB, PC-104 CARRIER BOARD LAYER 3 - SIGNAL				
			DRAWN CES		04-MAR-14						
FINISH SEE NOTES			CHECKED				SIZE B FSCM NO. DWG. NO. PCB-104 CARRIER BOARD REV. 2.9 SHEET OF				
			ISSUED								
DO NOT SCALE DRAWING											

A vertical line with four points labeled A, B, C, and D from bottom to top. Point B has a tick mark, and point C has a triangle symbol.



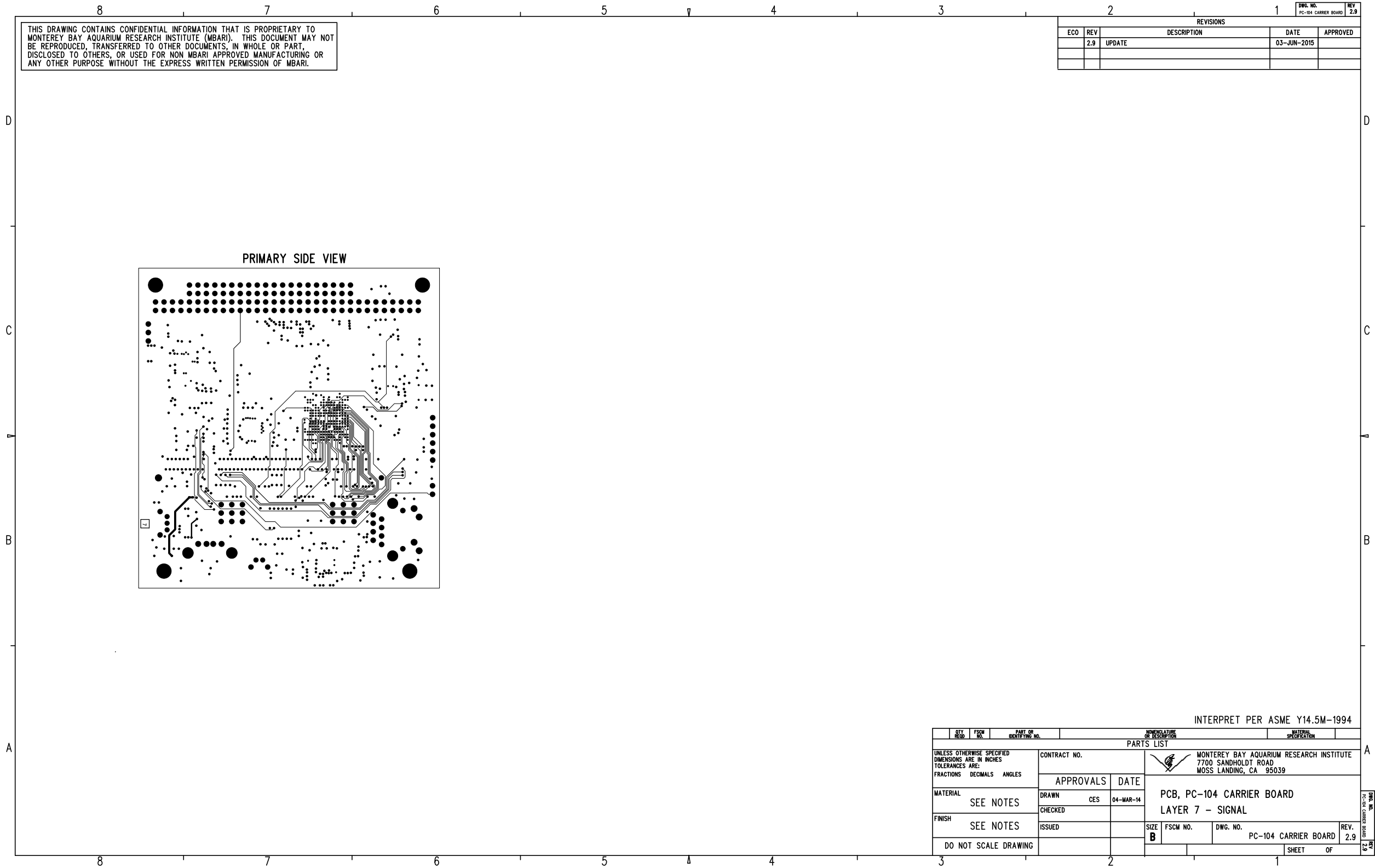
A

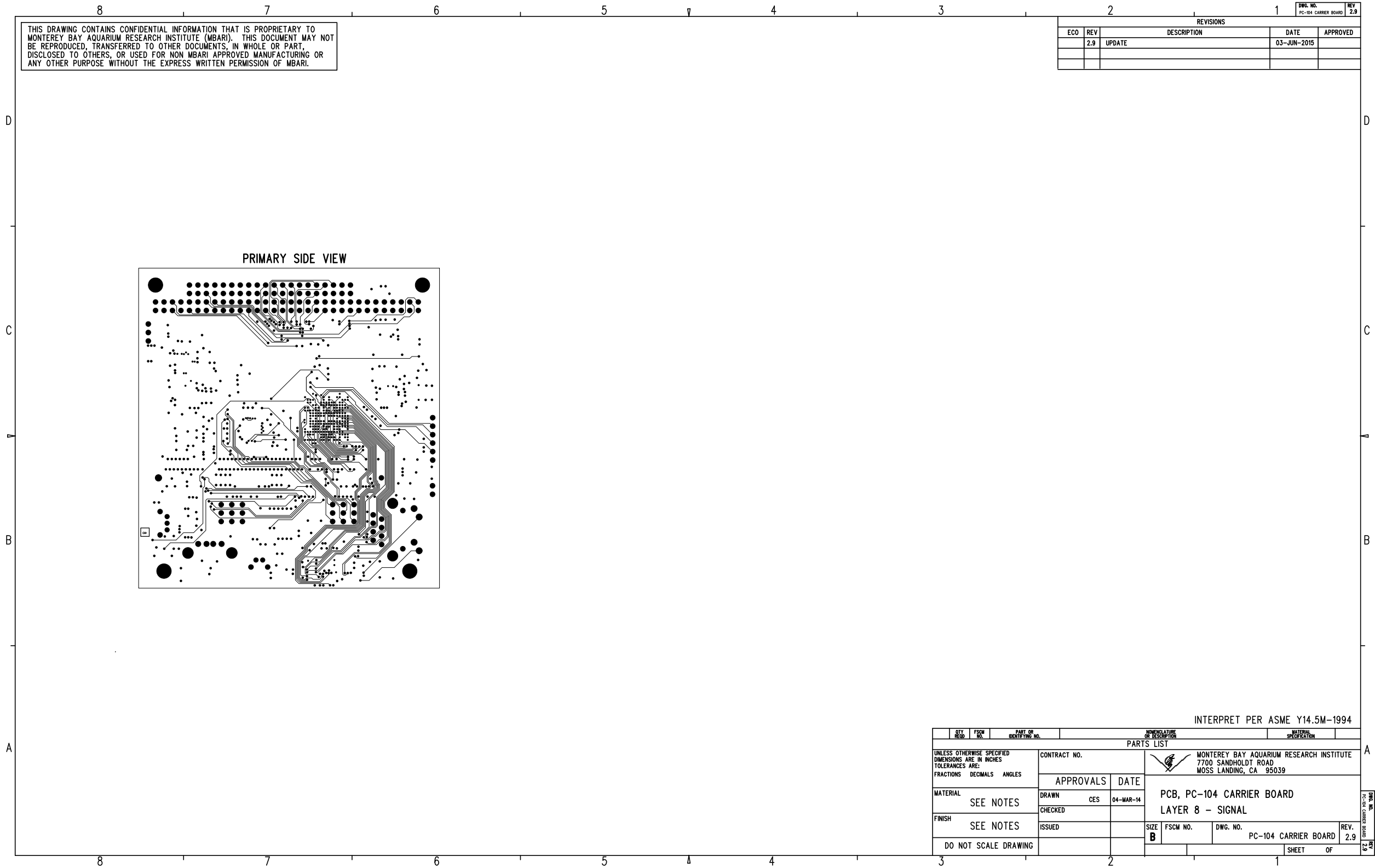
A vertical number line with points A, B, C, and D. Point A is at the bottom, followed by B, then C, and D at the top. Tick marks are present at each point. A small triangle points to point C.

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DWG. NO. PC-104 CAREER BOARD	REV 2.9
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A vertical line with four points labeled A, B, C, and D from bottom to top. Point B has a tick mark, and point C has a triangle symbol.

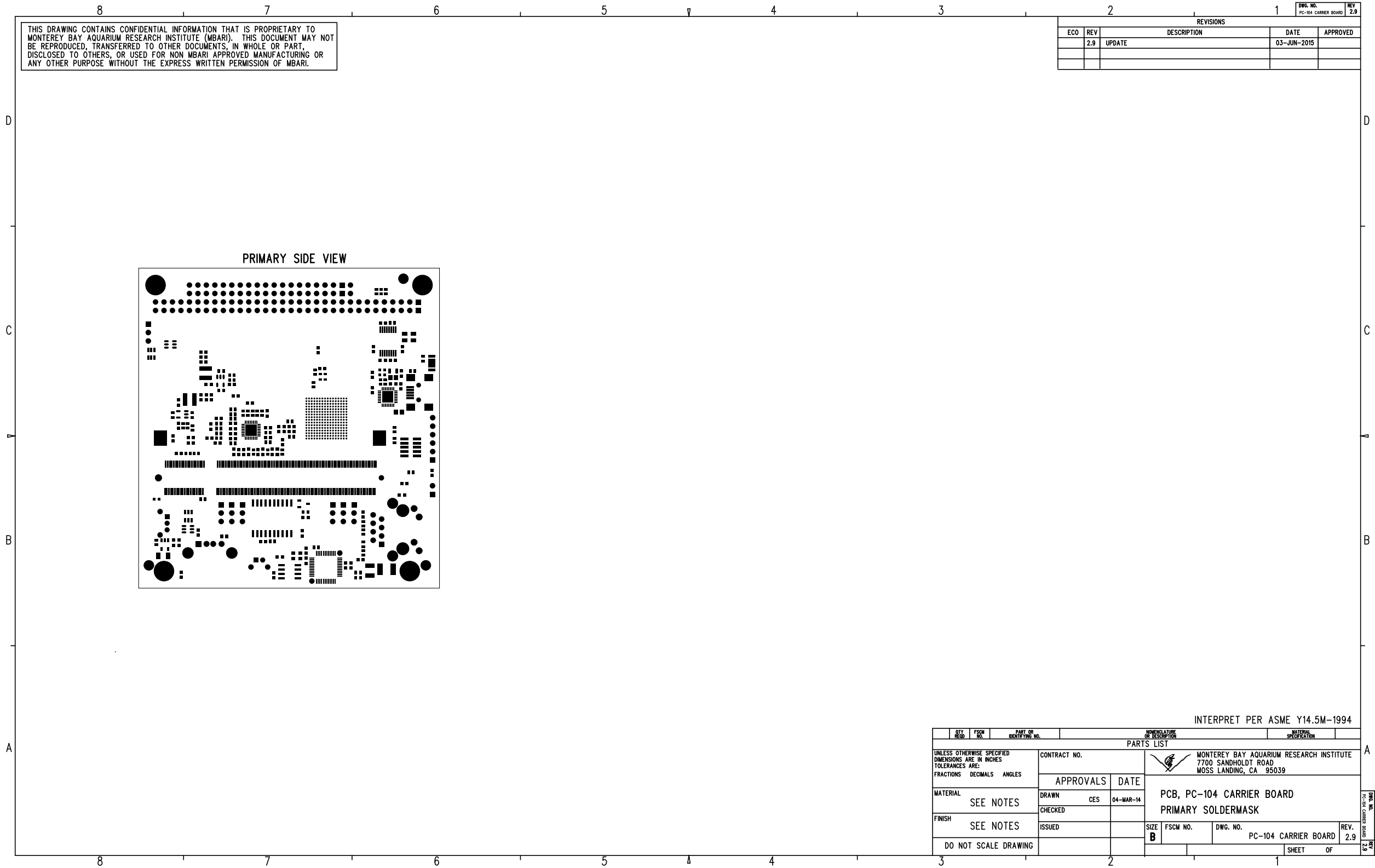
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DWG. NO. PC-104 CARRIER BOARD	REV 2.9
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A





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A vertical number line with points A, B, C, and D. Point A is at the bottom, followed by B, then C, and D at the top. There are tick marks between A and B, and between B and C.

A complex black and white halftone image, likely a reproduction of a photograph or a technical drawing. The image is composed of numerous small, irregular black shapes (dots and lines) of varying sizes and densities, creating a textured, abstract appearance. The overall composition is dense and intricate, with no discernible figures or objects.

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A collection of 15 small, stylized black and white illustrations of various insects, including beetles, flies, and bees, arranged in a grid-like fashion.

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7. COPPER THEFTING MAY BE ADDED TO THIS DESIGN BUT MUST MAINTAIN 100 MILS CLEAR TO ANY EXISTING FEATURE.
16. REGARDLESS OF CAD DATA VENDOR TO INSURE THAT ALL VIAS UNDER BGA ARE COVERED WITH SOLDERMASK.
15. THIS IS A CONTROLLED IMPEDANCE DESIGN. VENDOR TO ADJUST TRACE WIDTH AND/OR LAYER STACK TO ACHIEVE IMPEDANCE SHOWN IN TABLE.
14. PACKAGING OF FINISHED BOARDS TO BE MARKED WITH AN APPROVED Pb FREE LABEL.
13. CERTIFICATE OF COMPLIANCE TO BE PROVIDED ON ALL SHIPMENTS.
12. EACH LOT MUST INCLUDE ONE SOLDER SAMPLE.
11. BOARDS TO BE 100% NET LIST TESTED FOR OPENS AND SHORTS PER PROVIDED NETLIST.
10. FABRICATE PER IPC-6012, CLASS II.
9. ACCEPTABILITY CRITERIA TO BE PER IPC-A-600, LATEST ISSUE.
8. VENDORS UL ID, RECOGNIZED COMPONENT SYMBOL, 94V-0 RATING PER UL796 AND DATE CODE TO APPEAR IN THIS AREA ONLY ON FARSIDE.
7. FABRICATION DRAWING TAKES PRECEDENCE OVER ARTWORK AND/OR PURCHASE ORDER(S).
6. SURFACE FINISH TO BE ELECTROLESS NICKEL IMMERSION GOLD (ENIG) WITH 2-8 MICROINCH GOLD OVER 100-150 MICROINCH NICKEL OVER COPPER ON ALL EXPOSED PADS.
5. FINISHED COPPER THICKNESS TO BE PER LAYER DETAIL.
4. SILK SCREEN LEGEND TO BE WHITE, NON-CONDUCTIVE EPOXY INK.
3. GREEN SOLDER MASK BOTH SIDES LPI (LIQUID PHOTO-IMAGEABLE) PER IPC-SM-840.
2. MATERIAL TO BE HIGH Tg FR 370HR OR EQUIV. PER IPC, GREEN OR NATURAL, MUST MEET RoHS ASSEMBLY PROCESS REQUIREMENTS.
OVERALL THICKNESS TO BE PER LAYER DETAIL.
1. TOLERANCE: XX=+/-0.03; XXX=+/-0.005.

NOTES: UNLESS OTHERWISE SPECIFIED

LAYER DETAIL

NOTE: TRACE WIDTHS/LAYERS SHOWN FOR REFERENCE
MAY NOT APPEAR ON ALL LAYERS AS SHOWN

	SE	DIFF PAIR	DIFF PAIR	REF PLANE
LAYER	50 OHMS +/-10% LW (MILS)	90 OHMS +/-10% LW (MILS)	100 OHMS +/-10% LW/GAP (MILS)	
L1 PRIMARY SIDE	6.75	5.30/4.70	5.00/7.00	2
L2 GND PLANE	NA	NA	NA	NA
L3 SIG PLANE	6.30	5.30/4.70	NA	2/4
L4 PWR PLANE	NA	NA	NA	NA
L5 GND PLANE	NA	NA	NA	NA
L6 PWR PLANE	NA	NA	NA	NA
L7 SIGNAL	6.50	NA	NA	6/9
L8 SIGNAL	6.30	NA	NA	6/9
L9 GND PLANE	NA	NA	NA	NA
L10 SECONDARY	6.75	NA	NA	9

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