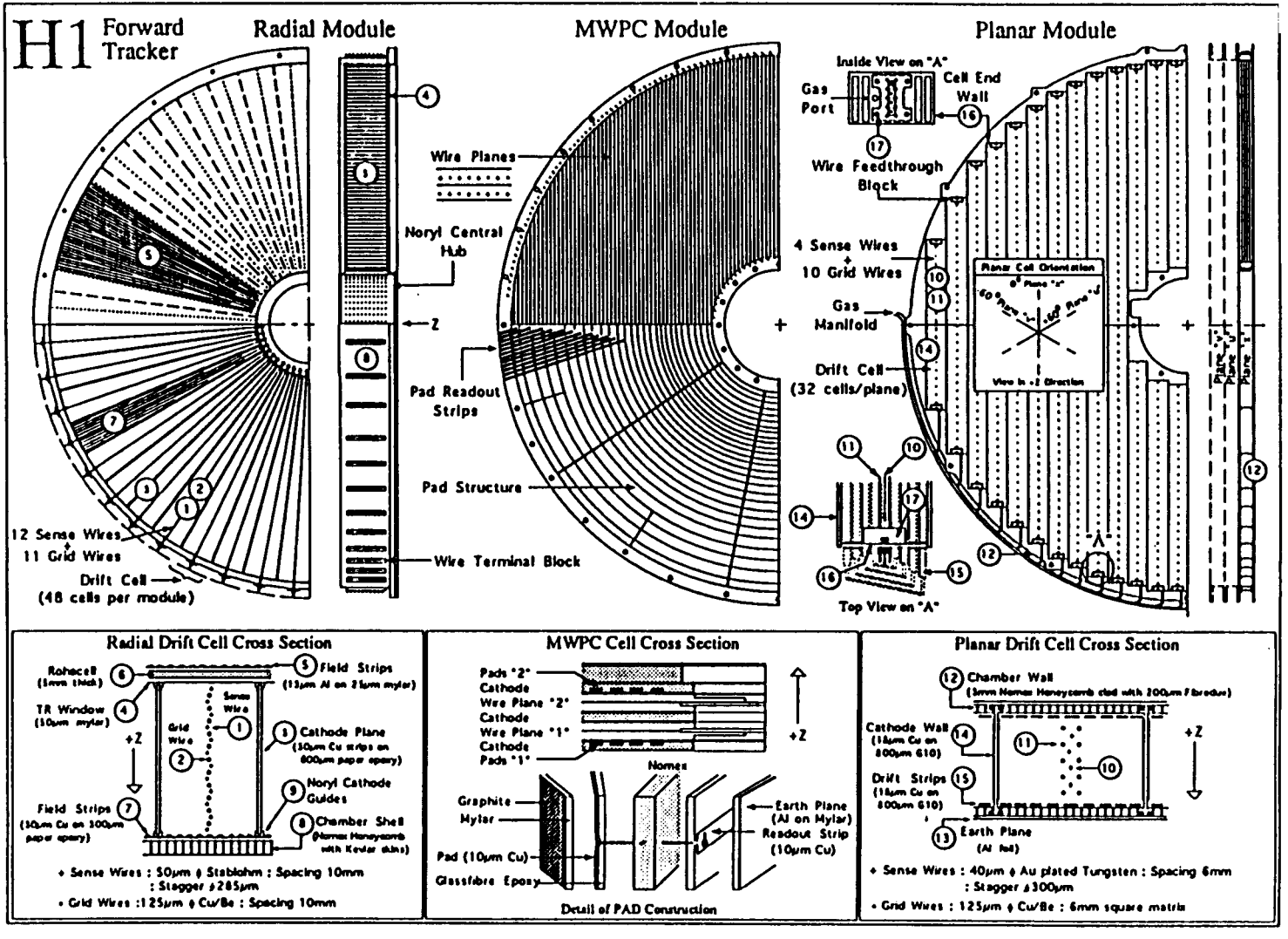
H1 Forward Tracker
Radial Module
MWPC Module
Planar Module
12 Sense Wires
11 Grid Wires
Drift Cell
(48 cells per module)
Wire Planes
Noryl Central Hub
Z
Pad Readout Strips
Pad Structure
Wire Terminal Block
Inside View on "A"
Gas Port
Cell End Wall
Wire Feedthrough Block
4 Sense Wires
10 Grid Wires
Gas Manifold
Drift Cell
(32 cells/plane)
Planar Cell Orientation
Top View on "A"
Radial Drift Cell Cross Section
Rohacell
Field Strips
TR Window
Sense Wire
Grid Wire
Cathode Plane
Noryl Cathode Guides
Chamber Shell
+Z
+ Sense Wires : 50μm ϕ Stablohm : Spacing 10mm
: Stagger ±285μm
+ Grid Wires :125μm ϕ Cu/Be : Spacing 10mm
MWPC Cell Cross Section
Pads "2"
Cathode
Wire Plane "2"
Wire Plane "1"
Pads "1"
Nomex
Graphite
Mylar
Pad (10μm Cu)
Glassfibre Epoxy
Earth Plane
(Al on Mylar)
Readout Strip
(10μm Cu)
Detail of PAD Construction
Planar Drift Cell Cross Section
Chamber Wall
Cathode Wall
Drift Strips
Earth Plane
+ Sense Wires : 40μm ϕ Au plated Tungsten : Spacing 6mm
: Stagger ±300μm
+ Grid Wires : 125μm ϕ Cu/Be : 6mm square matrix