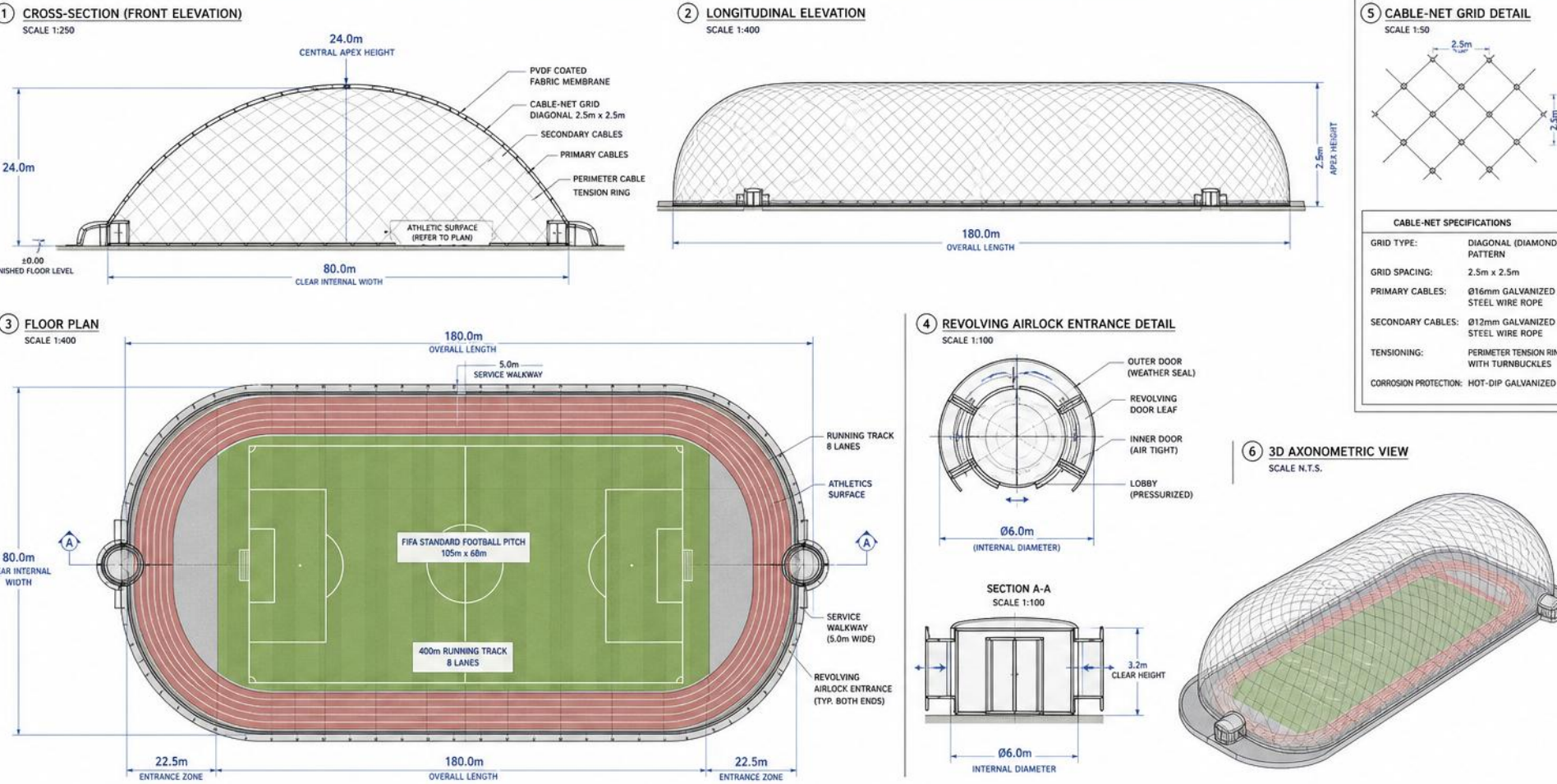




DESIGN PARAMETERS		STRUCTURAL SYSTEM		AIR SYSTEM		NOTES		80m x 180m PNEUMATIC AIR DOME SPORTS & ATHLETIC COMPLEX																										
STRUCTURE TYPE: AIR-SUPPORTED PNEUMATIC DOME		• PVDF COATED FABRIC MEMBRANE		• AIR SUPPLY UNITS: 4 (N+1 STANDBY)		1. ALL DIMENSIONS ARE IN METERS.		<table><tr><td>PROJECT NO.:</td><td>AD-80180</td><td>DRAWING NO.:</td><td>AD-80180-A1</td><td>REV.:</td><td>A</td></tr><tr><td>DATE:</td><td>MAY 2025</td><td>SCALE:</td><td>AS SHOWN</td><td colspan="2"></td></tr><tr><td>DRAWN BY:</td><td>ENG. CAD</td><td>CHECKED BY:</td><td>STRUCT. ENG.</td><td colspan="2">SHEET:</td></tr><tr><td>SHEET SIZE:</td><td>A1 (841 x 594)</td><td colspan="2"></td><td colspan="2">1 OF 1</td></tr></table>			PROJECT NO.:	AD-80180	DRAWING NO.:	AD-80180-A1	REV.:	A	DATE:	MAY 2025	SCALE:	AS SHOWN			DRAWN BY:	ENG. CAD	CHECKED BY:	STRUCT. ENG.	SHEET:		SHEET SIZE:	A1 (841 x 594)			1 OF 1	
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PLAN DIMENSIONS: 80.0m (W) x 180.0m (L)		• DIAGONAL CABLE-NET (2.5m x 2.5m)		• AIR PRESSURE: 550 – 650 Pa		2. DO NOT SCALE FROM DRAWINGS.																												
APEX HEIGHT: 24.0m		• PERIMETER TENSION RING SYSTEM		• AIR CHANGE RATE: 1.0 – 1.5 ACH		3. ALL STRUCTURAL CABLES SHALL BE TENSIONED AS PER MANUFACTURER'S RECOMMENDATIONS.																												
BUILDING AREA: 14,400 m²		• INTERNAL PRESSURIZATION		• FILTRATION: G4 PRE-FILTER		4. MEMBRANE FABRIC: PVDF COATED POLYESTER, 100% OPAQUE.																												
VOLUME (EST.): ~192,000 m³		• CABLES: GALVANIZED STEEL		• HEATING (OPTIONAL): HOT AIR RECIRCULATION UNITS		5. FOUNDATION AND ANCHORAGE DESIGN BY OTHERS.																												
DESIGN PRESSURE: +/- 600 Pa		• ANCHORAGE: CONCRETE FOUNDATION RING		• CONTROL SYSTEM: AUTOMATIC PRESSURE & TEMPERATURE CONTROL																														
WIND SPEED (BASIC): 40.0 m/s (144 km/h)																																		
SNOW LOAD: 0.75 kN/m²																																		
SEISMIC ZONE: NOT APPLICABLE (AIR SUPPORTED STRUCTURE)																																		
OCCUPANCY: SPORTS & ATHLETIC USE																																		
DESIGN LIFE: 20+ YEARS																																		