

PRELIMINARY INFORMATION

2.0 AIRPLANE DESCRIPTION

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2.0 AIRPLANE DESCRIPTION

2.1 General Characteristics

Maximum Design Taxi Weight (MTW). Maximum weight for ground maneuver as limited by aircraft strength and airworthiness requirements. (It includes weight of taxi and run-up fuel.)

Maximum Design Takeoff Weight (MTOW). Maximum weight for takeoff as limited by aircraft strength and airworthiness requirements. (This is the maximum weight at start of the takeoff run.)

Maximum Design Landing Weight (MLW). Maximum weight for landing as limited by aircraft strength and airworthiness requirements.

Maximum Design Zero Fuel Weight (MZFW). Maximum weight allowed before usable fuel and other specified usable agents must be loaded in defined sections of the aircraft as limited by strength and airworthiness requirements.

Spec Operating Empty Weight (OEW). Weight of structure, powerplant, furnishing systems, unusable fuel and other unusable propulsion agents, and other items of equipment that are considered an integral part of a particular airplane configuration. Also included are certain standard items, personnel, equipment, and supplies necessary for full operations, excluding usable fuel and payload.

Maximum Structural Payload. Maximum design zero fuel weight minus operational empty weight.

Maximum Seating Capacity. The maximum number of passengers specifically certificated or anticipated for certification.

Maximum Cargo Volume. The maximum space available for cargo.

Usable Fuel. Fuel available for aircraft propulsion.

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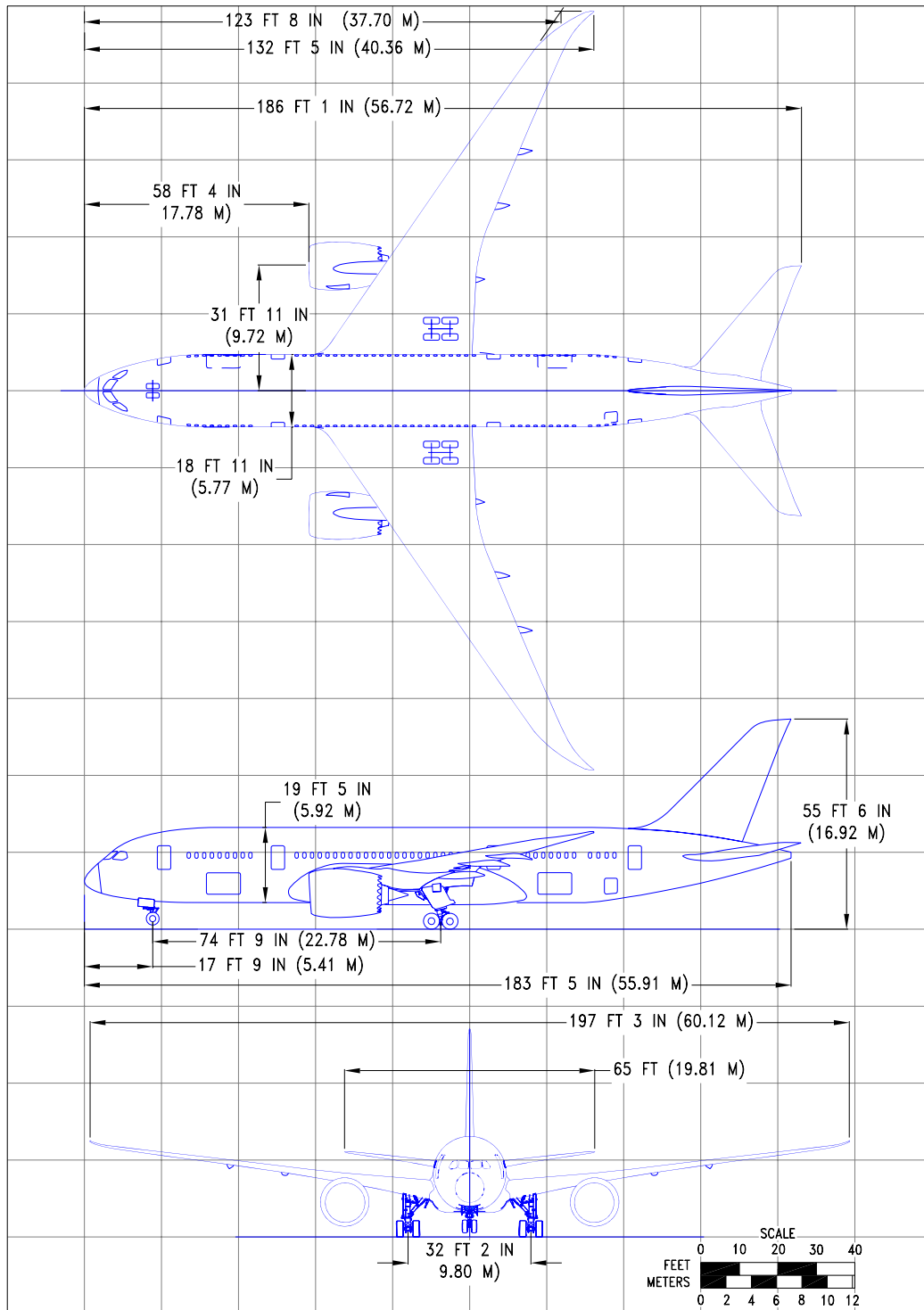
CHARACTERISTICS	UNITS	ENGINE MANUFACTURER	
		GENERAL ELECTRIC	ROLLS-ROYCE
MAX DESIGN	POUNDS	482,000	482,000
TAXI WEIGHT	KILOGRAMS	218,631	218,631
MAX DESIGN	POUNDS	480,000	480,000
TAKEOFF WEIGHT	KILOGRAMS	217,724	217,724
MAX DESIGN	POUNDS	365,000	365,000
LANDING WEIGHT	KILOGRAMS	165,561	165,561
MAX DESIGN ZERO	POUNDS	340,000	340,000
FUEL WEIGHT	KILOGRAMS	154,221	154,221
SPEC OPERATING	POUNDS	240,000	240,000
EMPTY WEIGHT (1)	KILOGRAMS	108,862	108,862
MAX STRUCTURAL	POUNDS	100,000	100,000
PAYLOAD	KILOGRAMS	45,359	45,359
SEATING	ONE-CLASS	375 ALL-ECONOMY SEATS; EXIT LIMIT = 440 SEATS	
CAPACITY	MIXED CLASS	224 THREE-CLASS; 12 FIRST CLASS, 42 BUSINESS CLASS, 170 ECONOMY CLASS (SEE SEC 2.4)	
MAX CARGO	CUBIC FEET	4,826 (2)	4,826 (2)
- LOWER DECK	CUBIC METERS	136.7 (2)	136.7 (2)
USABLE FUEL	US GALLONS	33,528	33,528
	LITERS	126,903	126,903
	POUNDS	224,638	224,638
	KILOGRAMS	101,894	101,894

- NOTES: (1) SPEC WEIGHT FOR TYPICAL ENGINE/WEIGHT CONFIGURATION SHOWN
TYPICAL OPERATING EMPTY WEIGHT SHOWN. ACTUAL WEIGHT WILL
DEPEND ON SPECIFIC AIRLINE CONFIGURATION.
- (2) 16 LD3 CONTAINERS IN FWD COMPARTMENT AT 158 CU FT (4.5 CU M) EACH ; 12 LD3
CONTAINERS IN AFT COMPARTMENT; 402 CU FT (11.4 CU M) IN BULK CARGO COMPARTMENT.
SEE SEC 2.6 FOR OTHER LOADING COMBINATIONS.

2.1 GENERAL CHARACTERISTICS

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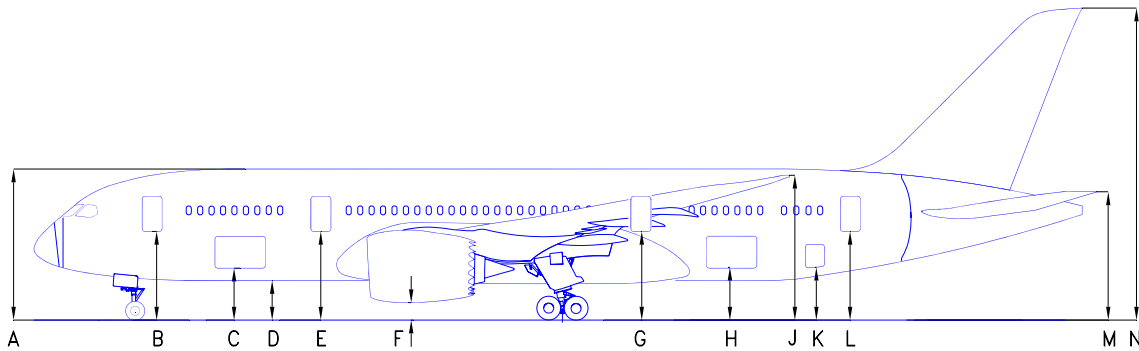
2.2 GENERAL DIMENSIONS

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	NOMINAL (1)	
	FEET - INCHES	METERS
A	25 - 3	7.70
B	14 - 2	4.32
C	8 - 0	2.44
D	5 - 9	1.75
E	14 - 7	4.45
F (GE ENGINES)	2 - 5	0.74
F (RR ENGINES)	2 - 4	0.71
G	15 - 4	4.67
H	9 - 2	2.79
J	25 - 2	7.67
K	9 - 6	2.90
L	15 - 10	4.83
M	23 - 5	7.13
N	55 - 6	16.92

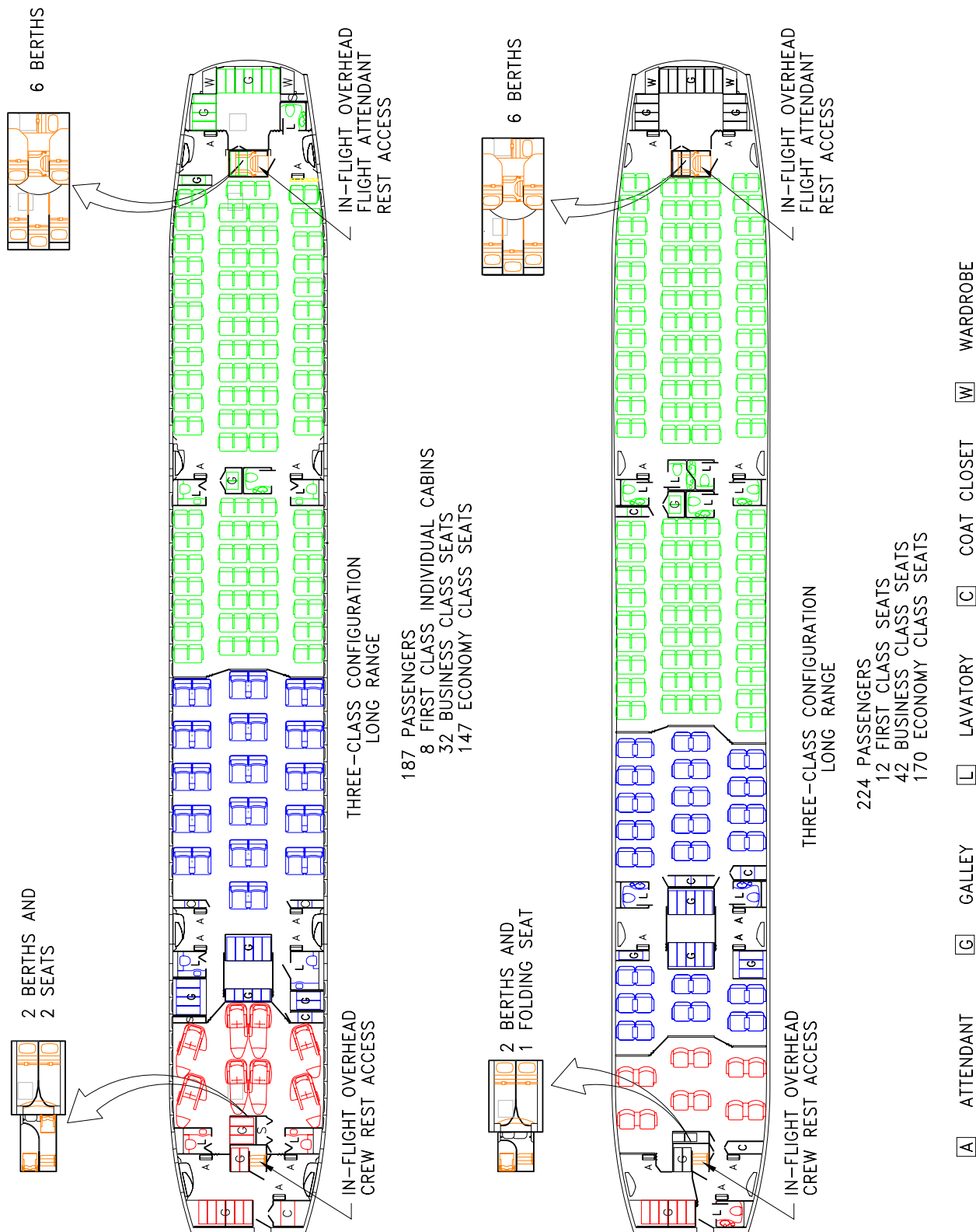
NOTES:

1. NOMINAL DIMENSIONS BASED ON A STATIC AIRPLANE.
2. DURING ROUTINE SERVICING, THE AIRPLANE REMAINS RELATIVELY STABLE, PITCH AND ELEVATION CHANGES OCCURRING SLOWLY.

2.3 GROUND CLEARANCES

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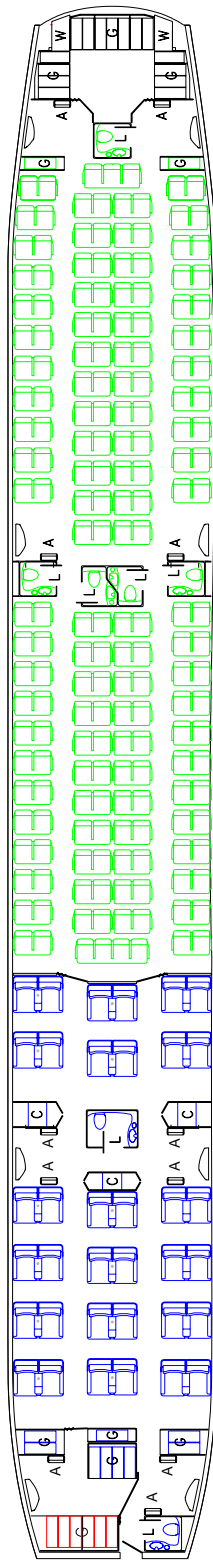
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2.4.1 INTERIOR ARRANGEMENTS – LONG-RANGE CONFIGURATIONS

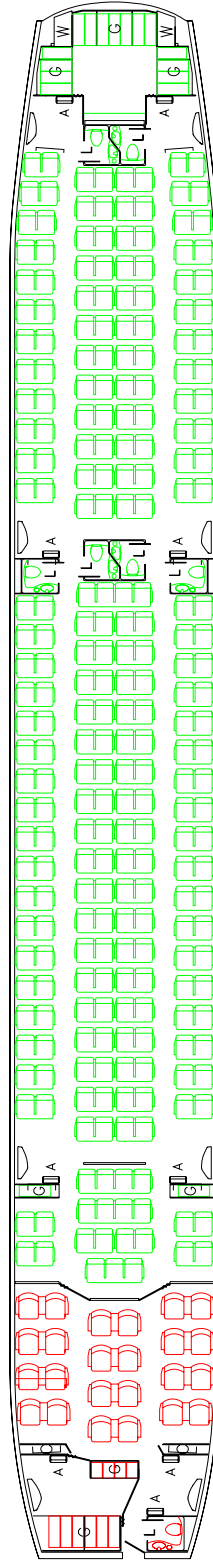
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DUAL-CLASS CONFIGURATION
MEDIUM TO LONG RANGE

227 PASSENGERS
60 BUSINESS CLASS SEATS
191 ECONOMY CLASS SEATS



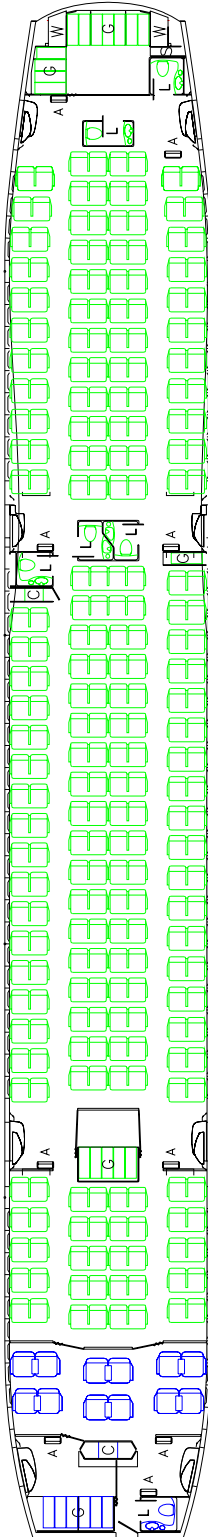
DUAL-CLASS CONFIGURATION
SHORT TO MEDIUM RANGE

291 PASSENGERS
24 FIRST CLASS SEATS
267 ECONOMY CLASS SEATS

[A] ATTENDANT [G] GALLEY [L] LAVATORY [S] STORAGE [W] WARDROBE

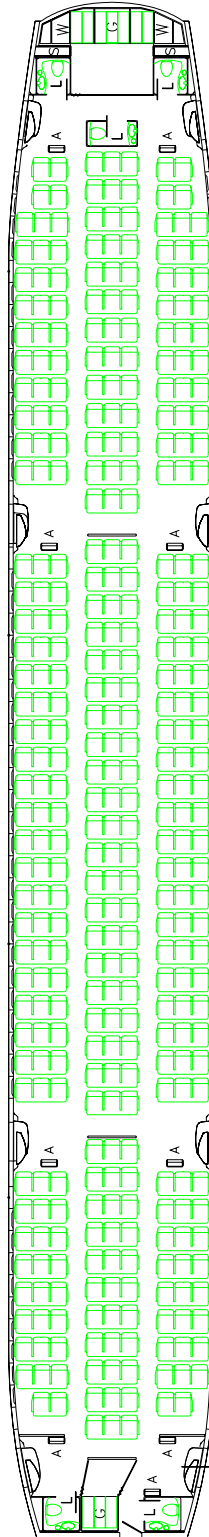
2.4.2 INTERIOR ARRANGEMENTS – SHORT-TO-MEDIUM-TO-LONG RANGE MODEL 787-8

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DUAL-CLASS CONFIGURATION
SHORT TO MEDIUM RANGE

286 PASSENGERS
12 BUSINESS CLASS SEATS
274 ECONOMY CLASS SEATS



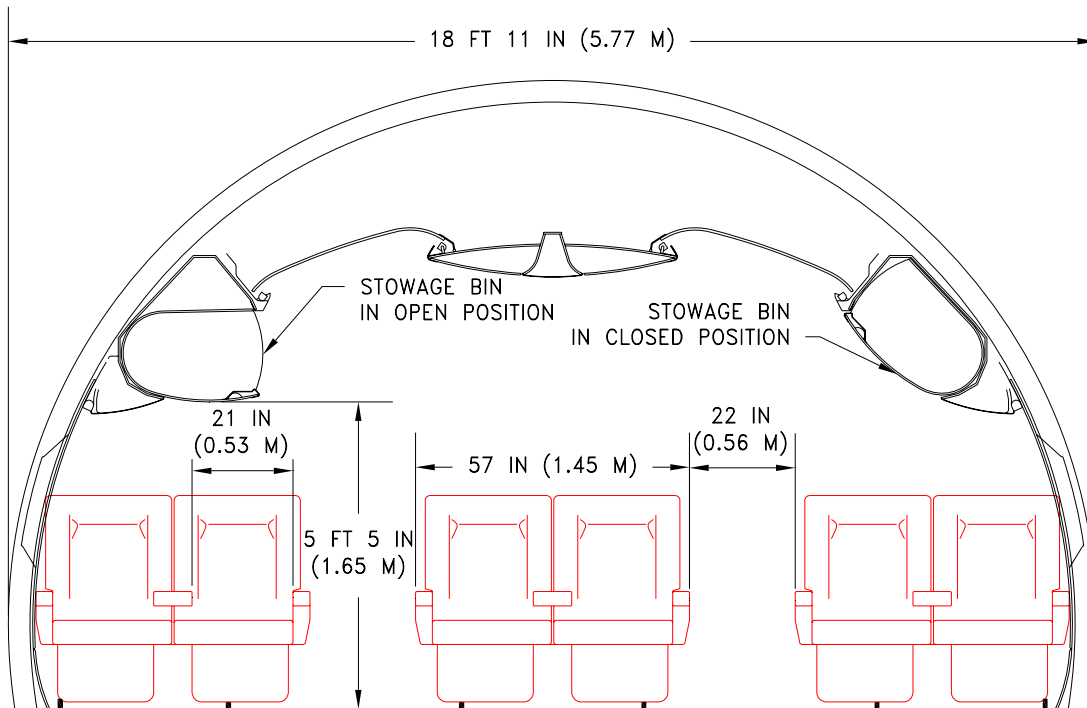
SINGLE-CLASS CONFIGURATION
SHORT TO MEDIUM RANGE

375 ECONOMY CLASS SEATS

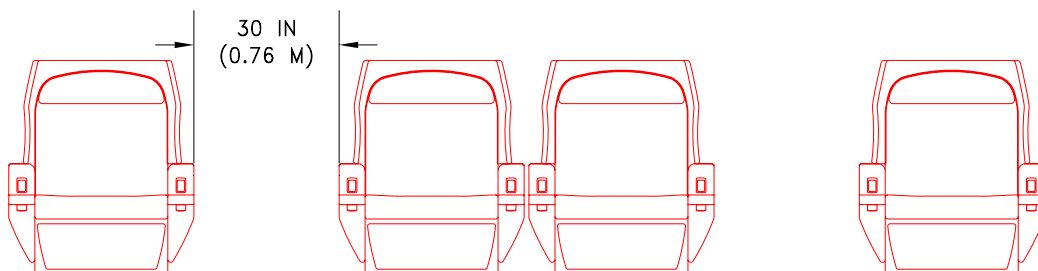
[A] ATTENDANT [G] GALLEY [L] LAVATORY [S] STORAGE [W] WARDROBE

2.4.3 INTERIOR ARRANGEMENTS – SHORT-TO-MEDIUM RANGE MODEL 787-8

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FIRST CLASS/BUSINESS CLASS SEATS

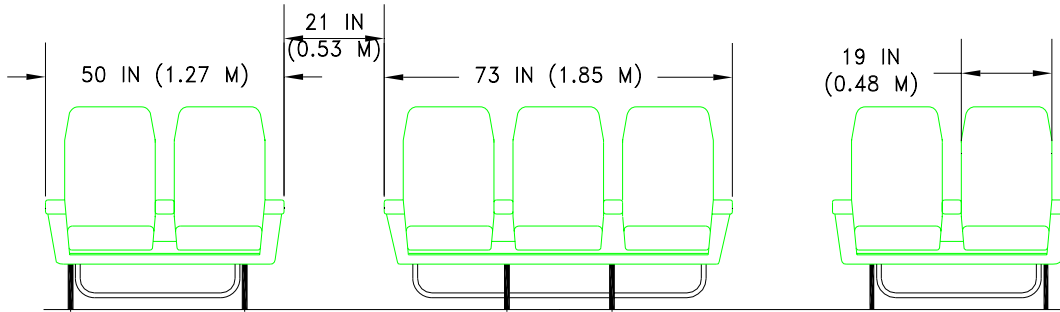


FIRST CLASS POD

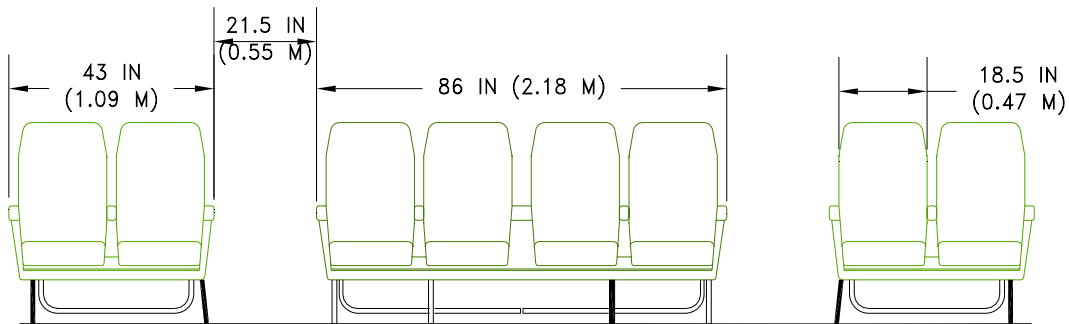
2.5.1 CABIN CROSS-SECTIONS – FIRST CLASS AND BUSINESS CLASS SEATS

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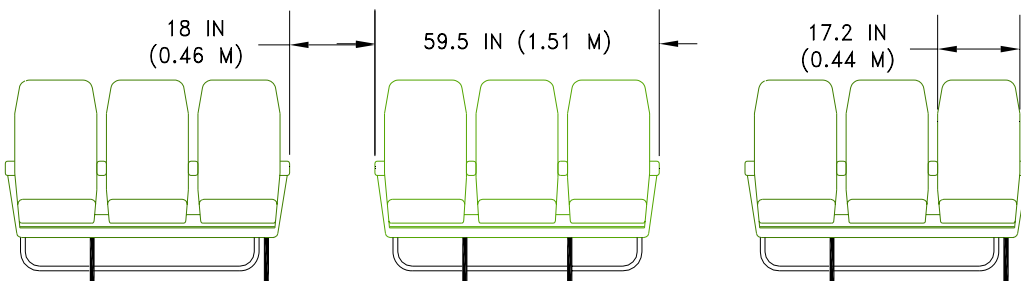
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BUSINESS CLASS/PREMIUM ECONOMY CLASS SEATS



8-ABREAST ECONOMY SEATS



9-ABREAST ECONOMY SEATS

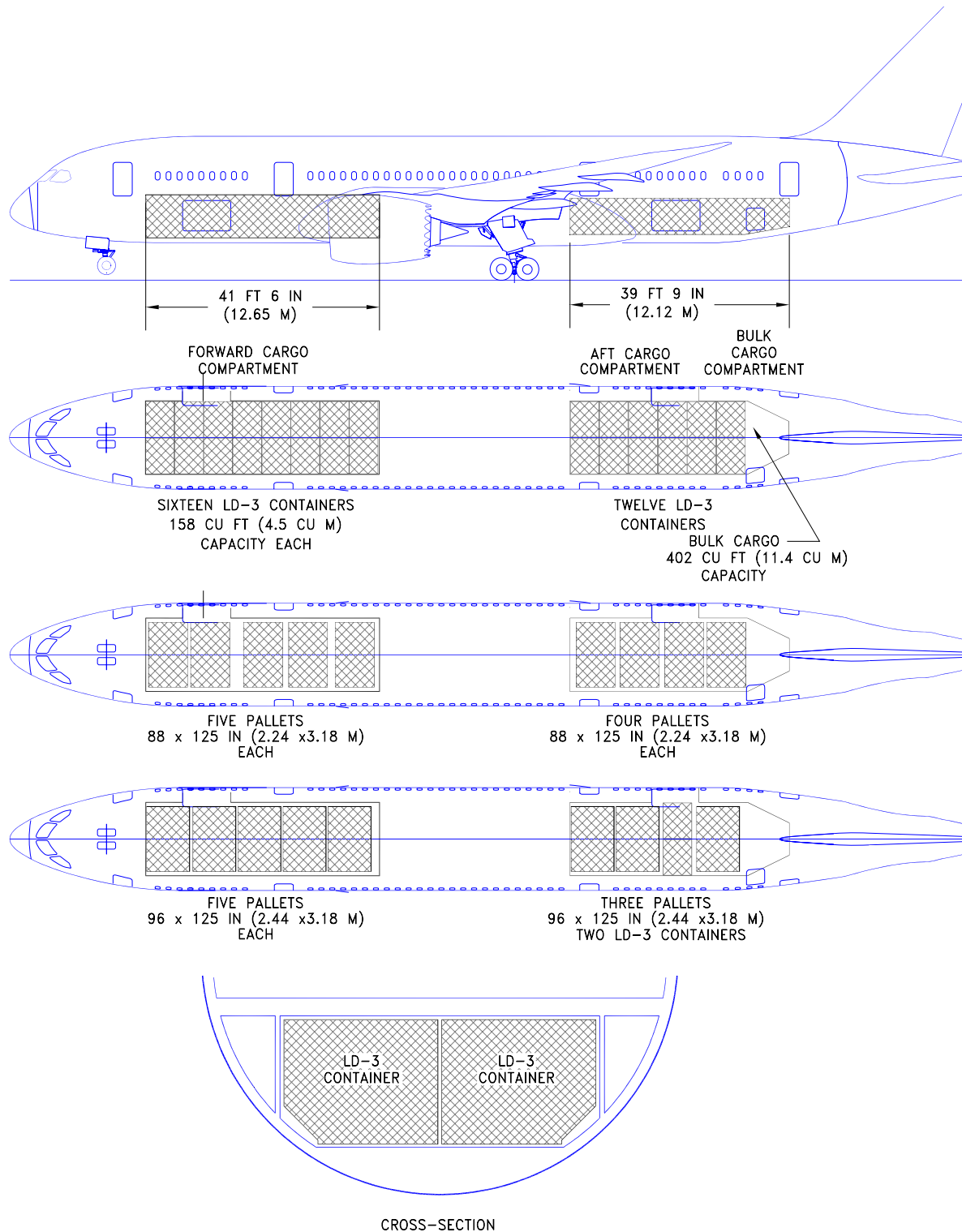
2.5.2 CABIN CROSS-SECTIONS - ALTERNATE SEATING ARRANGEMENTS

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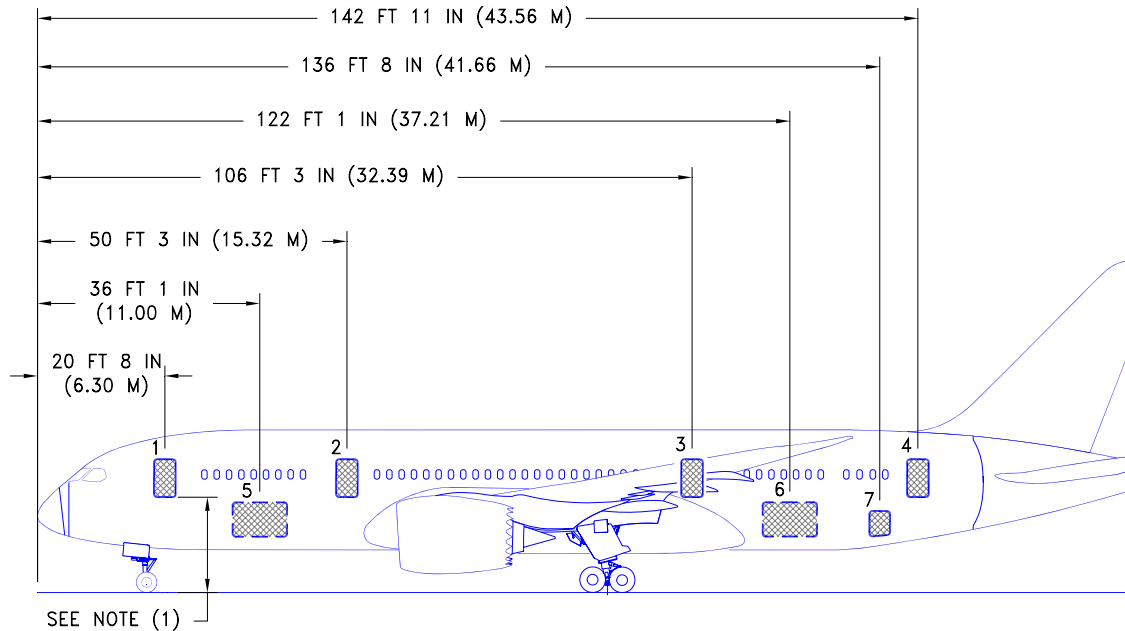
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2.6 LOWER CARGO COMPARTMENTS – CONTAINERS AND BULK CARGO

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	DOOR NAME	DOOR LOCATION	DOOR CLEAR OPENING
1	MAIN ENTRY/SERVICE DOOR NO 1 (2)	LEFT AND RIGHT	42 IN x 72 IN (1.07 x 1.83 M)
2	MAIN ENTRY/SERVICE DOOR NO 2 (2)	LEFT AND RIGHT	42 IN x 72 IN (1.07 x 1.83 M)
3	EMERGENCY EXIT DOOR NO 3	LEFT AND RIGHT	36 IN x 74 IN (0.91 x 1.88 M)
4	MAIN ENTRY/SERVICE DOOR NO 4 (2)	LEFT AND RIGHT	42 IN x 72 IN (1.07 x 1.83 M)
5	FORWARD CARGO DOOR	RIGHT	106 IN x 67 IN (2.69 x 1.70 M)
6	AFT CARGO DOOR	RIGHT	106 IN x 67 IN (2.69 x 1.70 M)
7	BULK CARGO DOOR	LEFT	40 IN x 45 IN (1.02 x 1.14 M)

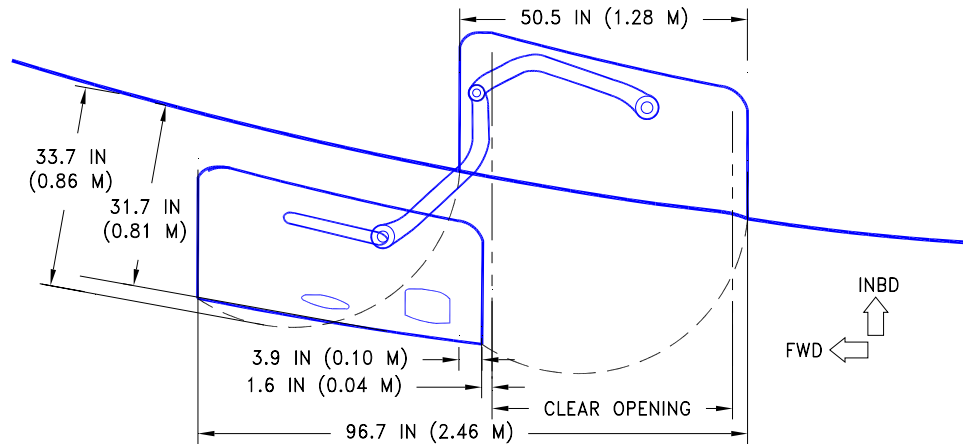
NOTES:

- (1) SEE SEC 2.3 FOR DOOR SILL HEIGHTS
- (2) ENTRY DOORS LEFT SIDE, SERVICE DOORS RIGHT SIDE

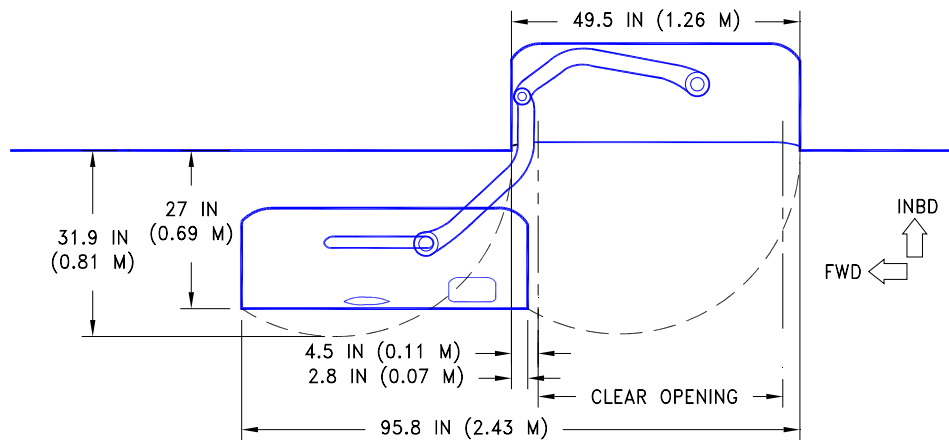
2.7.1 DOOR LOCATIONS AND SIZES - PASSENGER AND CARGO DOORS

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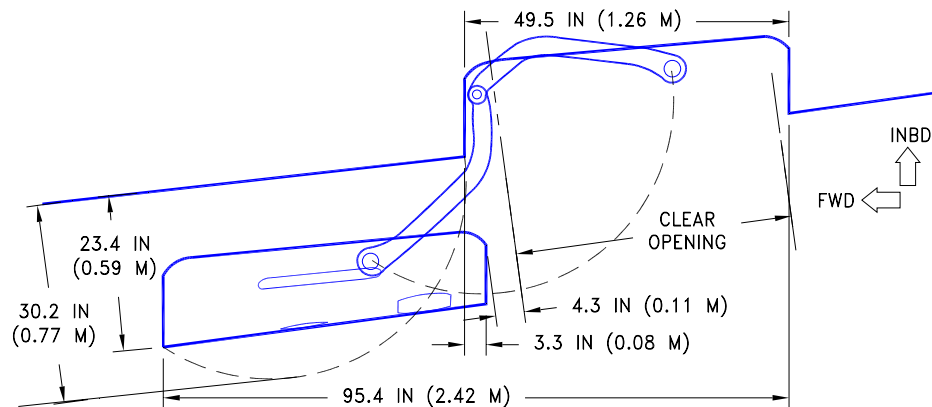
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DOOR NO 1 SWING ENVELOP
(LEFT DOOR SHOWN, RIGHT DOOR OPPOSITE)



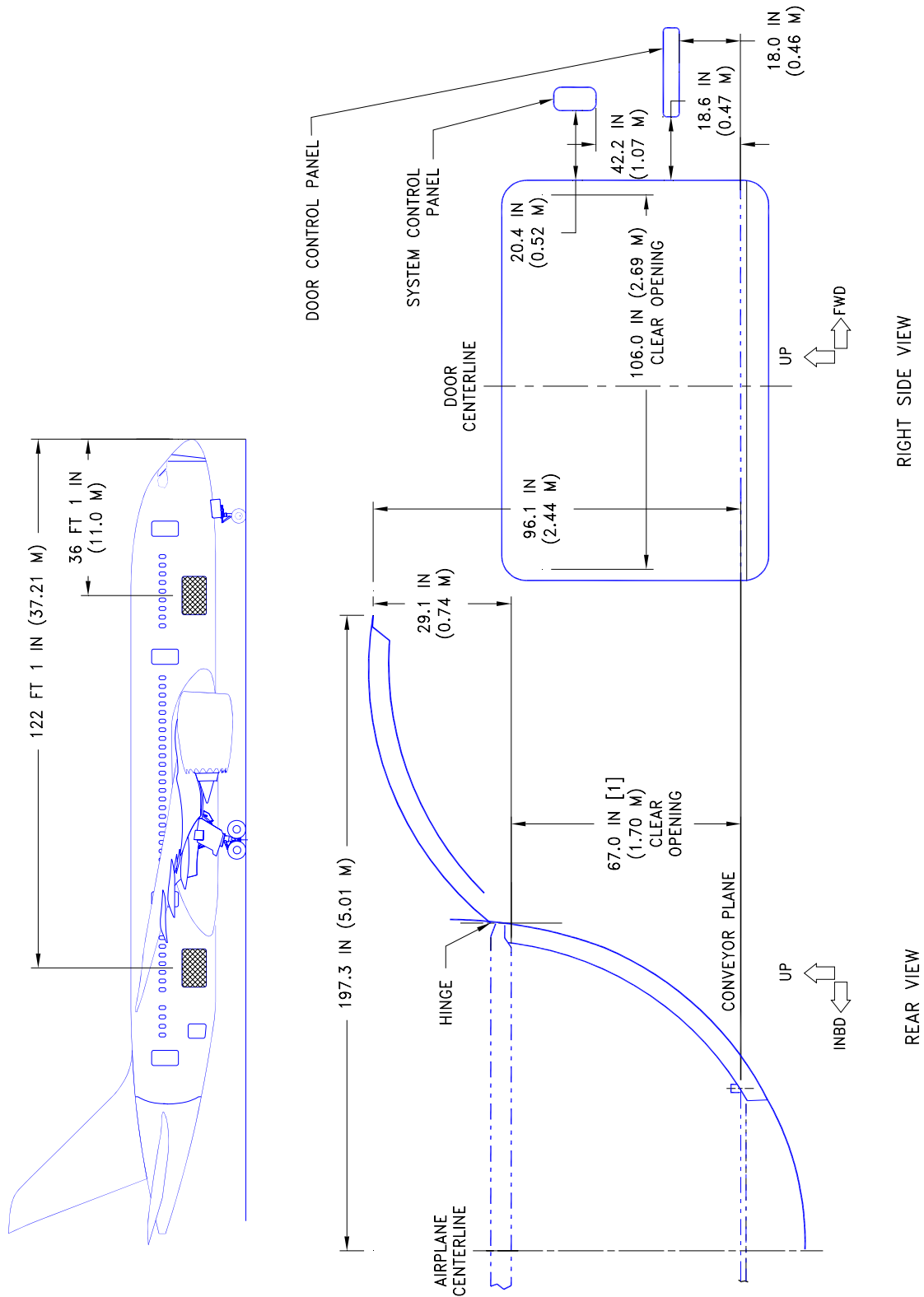
DOOR NO 2 SWING ENVELOP
(LEFT DOOR SHOWN, RIGHT DOOR OPPOSITE)



DOOR NO 4 SWING ENVELOP
(LEFT DOOR SHOWN, RIGHT DOOR OPPOSITE)

2.7.2 DOOR CLEARANCES – MAIN DECK ENTRY AND SERVICE DOORS MODEL 787-8

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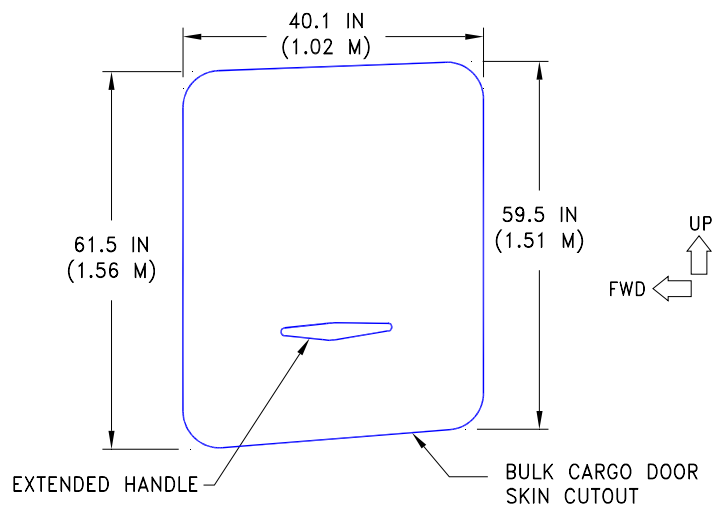
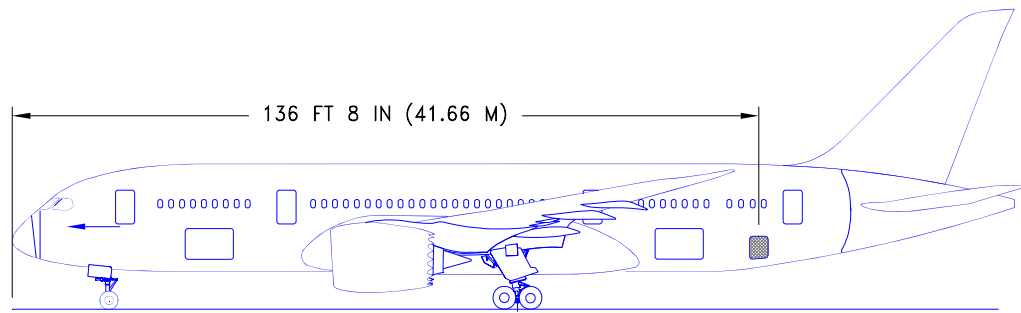


2.7.3 DOOR CLEARANCES – LOWER DECK CARGO DOOR MODEL 787-8

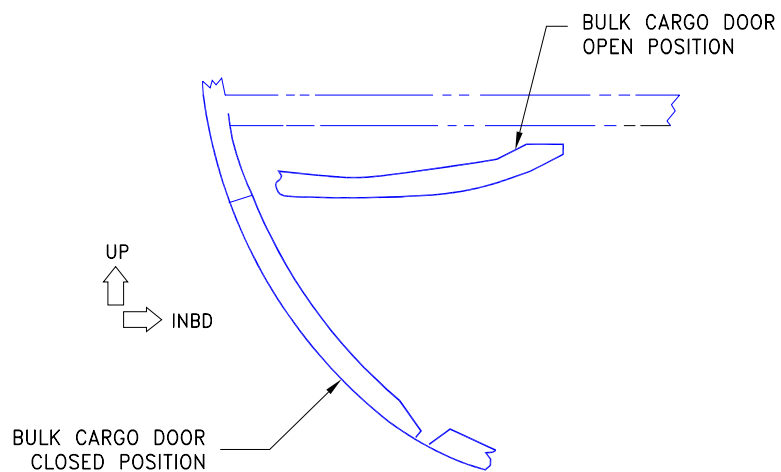
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LEFT SIDE VIEW



VIEW LOOKING FORWARD

2.7.4 DOOR CLEARANCES - BULK CARGO DOOR

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