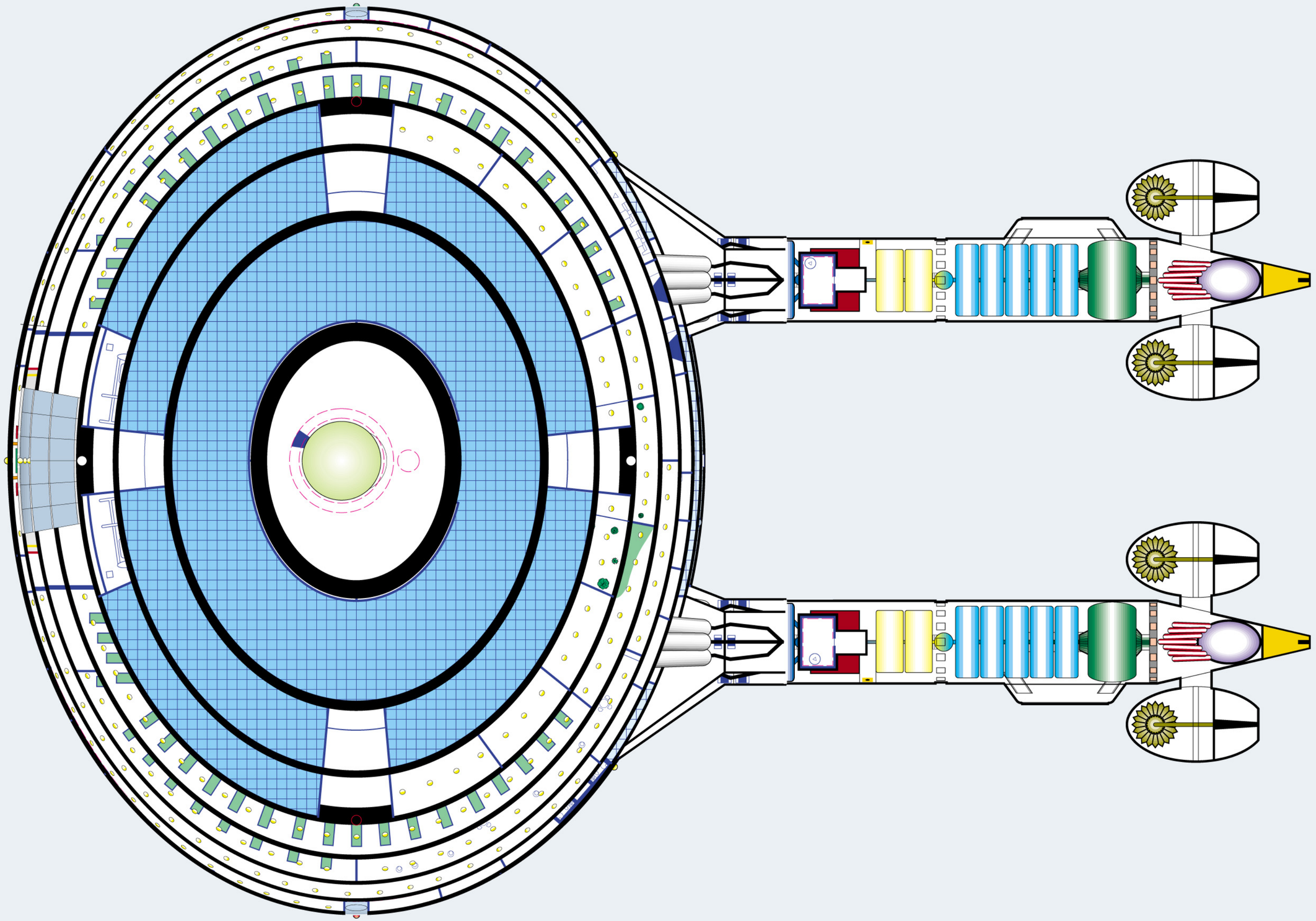
MANN-CLASS CRUISER

from STAR TREK [pre-TOS]

PROFILE, CUTAWAY, AND DECK PLANS



DRAWN BY: Jim Botaitis

STAR TREK - MANN-CLASS CRUISER

LAYOUT: INTRODUCTION & ANALYSIS PAGE 1 of 25

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If printed 17 inches tall (from black-outlined edge to black-outlined edge) the scale of these drawings is 1/350.



BACKGROUND HISTORY

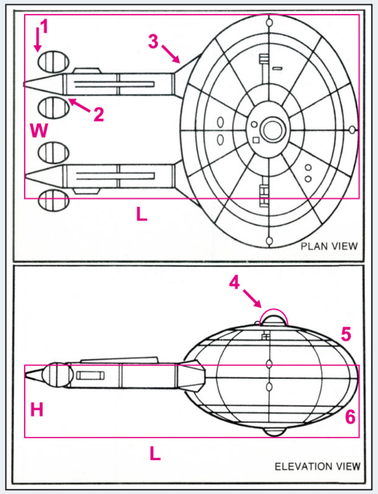
This project is an extrapolation of the U.S.S. ENTERPRISE drawings developed in the year 2020. Those drawings were governed by 3 criteria:
(1) The 11-foot-2.08-inch (3.4-meter) studio model,
(2) The Writer's Guide, and
(3) The 79 episodes plus the original pilot.
There are no such criteria to guide these drawings, but the basic design philosophy is to complete this ship in the same style that Franz Joseph (FJ) developed for his Technical Manual and in the same style as his Heavy Cruiser blueprints. The goal is to try and fit all the components inside the hull. But what are "all the components"? What are the roles of "Cruisers" in the STAR TREK universe, especially of ships in early or pre-Federation days?

A "Cruiser" was a type of warship used on Earth. It was generally the largest ship in a fleet after Aircraft Carriers and Amphibious Assault ships. A Cruiser can usually perform several operation roles including Search-and-Destroy, Ocean Escort, and Sea Denial.

The term "Cruiser" has been used for several hundred years and has changed its meaning over time.

The MANN-Class was used primarily for strategic purposes by Star Fleet Command. It provided defense and security within the ever-growing jurisdiction of the Federation. The ships of this Class served from 2154 until 2192.

CONSTRUCTION NOTES



I started with the line drawings and dimensions given in the book "Star Trek Spaceflight Chronology" - that book also contains a painting by Rick Sternbach on Page 145. Part of it is reproduced here, at right.

The dimensions provided in the book (represented with pink rectangles at left) do not coincide with the proportions shown in the 2 line drawings. If the ship is drawn to match all three (3) of the given dimensions, the result is very distorted (see bottom left).

Further analysis is in the "CONSTRUCTION NOTES (continued)" at the bottom center of this page.

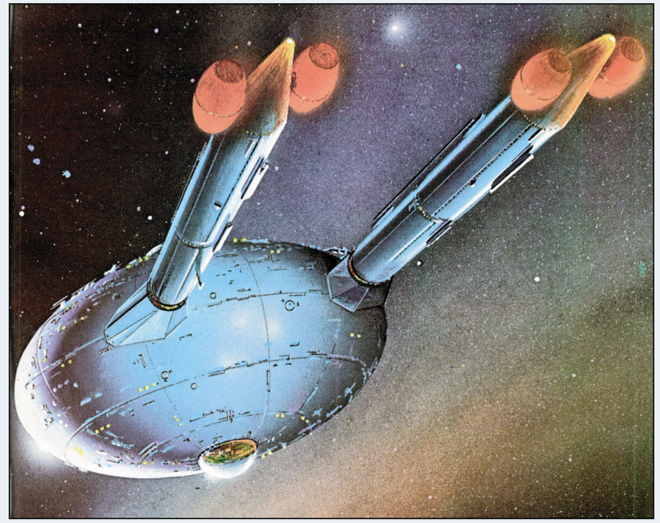
Other details to note:
(1) The ovals have a flat face at the rear in the painting (at right),
(2) The ovals are not connected to the cone in the drawing (at left),
(3) A multi-faceted connection is shown at this location in the painting,
(4) The dimensions given for the Command Dome make it too tall,
(5) This is where I chose to place the Hangar Bay,
(6) This is where I chose to place the Deflector Dish.

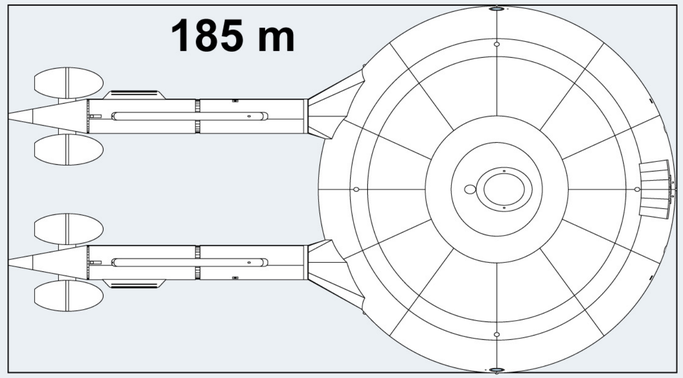
In CHARLIE X we saw how thick the walls are and also what is in the walls. The DESILU plans show walls that are 1 foot (0.3 meters) thick and sometimes even thicker. I decided to make all walls, decks, and hulls 1 foot thick. In a few places, they are even thicker.

In the profile drawing (Page 3) the light grey horizontal lines represent a constant ceiling height of 8 feet throughout the entire ship. I chose a ceiling height of 8 feet (2.44 meters) for each level of the ship.

Very little canonical information exists for this class of ship; most of the surface details and markings are from my imagination.

RICK STERNBACH'S PAINTING





CONSTRUCTION NOTES (continued)

The dimensions given in the book are: 185 meters long, 101.7 meters wide, and 40 meters tall. The proportions of the 2-view drawings (also given in the book) do not coincide with those numbers.

OPTION 1
If we set the height to be 40 meters, the length is about 112 meters and the width is about 78 meters. Using the deck thickness and ceiling height as established for all my other plans, this gives the ship about 14 decks. The volume of the ellipsoidal Main Hull is about 86,000 cubic meters.

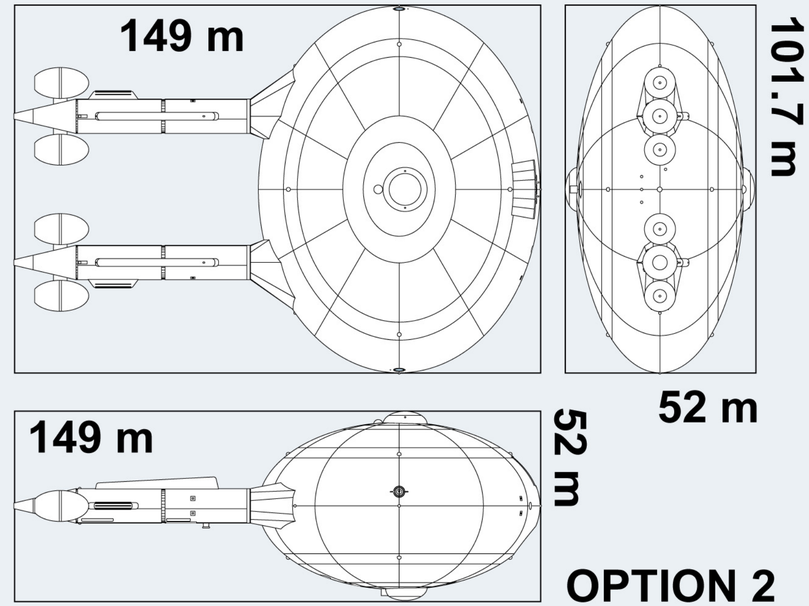
OPTION 2
If we set the width to be 101.7 meters, the length is about 149 meters and the height is about 52 meters. Using the deck thickness and ceiling height as established for all my other plans, this gives the ship about 18 decks. The volume of the ellipsoidal Main Hull is about 189,000 cubic meters.

OPTION 3
If we set the length to be 185 meters, the width is about 129 meters and the height is about 66 meters. Using the deck thickness and ceiling height as established for all my other plans, this gives the ship about 23 decks. The volume of the ellipsoidal Main Hull is about 371,000 cubic meters.

The volume of the U.S.S. ENTERPRISE from the original series is about 280,000 cubic meters. Comparing the MANN-Class to the U.S.S. ENTERPRISE we can see:

Option 1 is too small.
Option 3 is too big.
Option 2 seems to be the best fit.
Option 2 provides reasonable numbers for a ship which is supposed to have a crew of 294, compared to a crew of 157 on the MARSHALL-Class ships and compared to a crew of 432 on CONSTITUTION-Class ships.
This also fits well for a ship which is supposed to be from about 50 years after the MARSHALL-Class ships and from about 40 years before the CONSTITUTION-Class ships.

Therefore, at left are the original dimensions (which distort the proportions) and at right are the adjusted dimensions (which maintain the proportions). The next page shows all three (3) options and compares them to the MARSHALL-Class and CONSTITUTION-Class.



STAR TREK - MANN-CLASS CRUISER

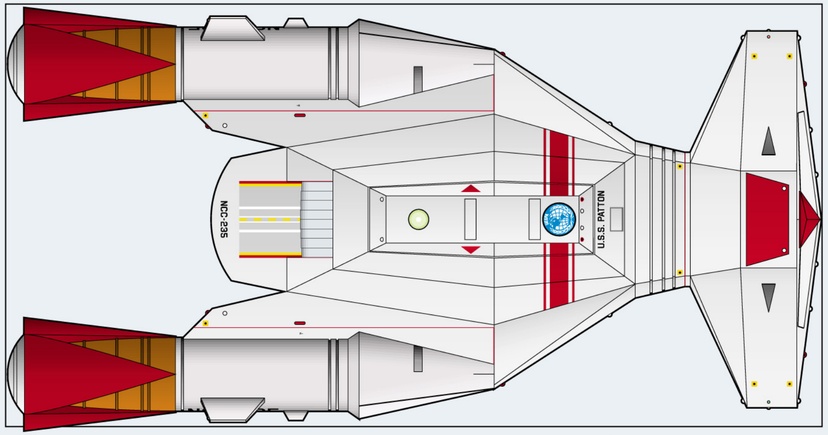
LAYOUT: SIZE COMPARISON PAGE 2 of 25

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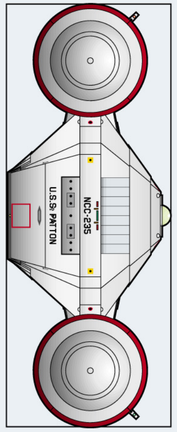
If printed 17 inches tall (from black-outlined edge to black-outlined edge) the scale of these drawings is 1/1000.

0 10 20 30 40 50
METERS

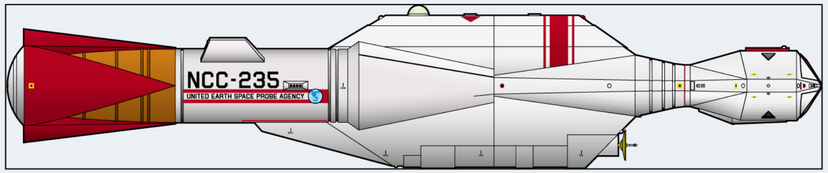


225 m

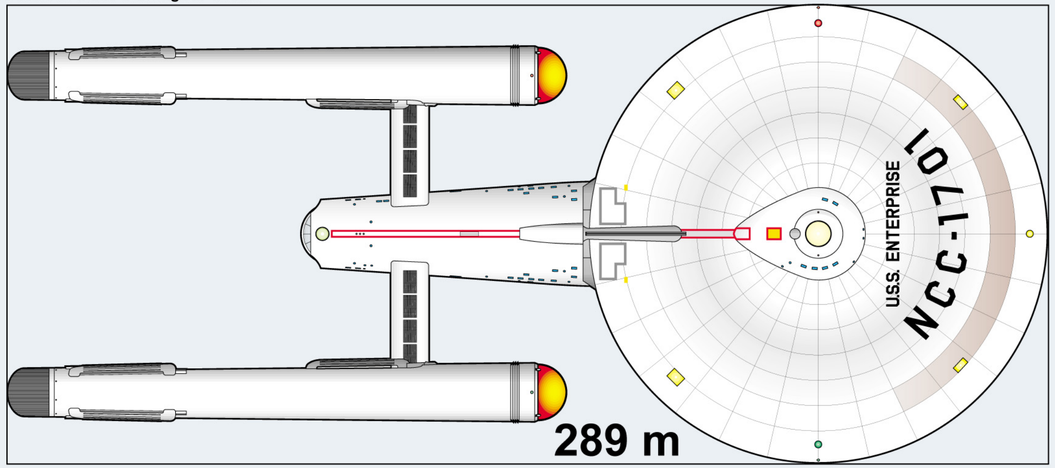
117 m



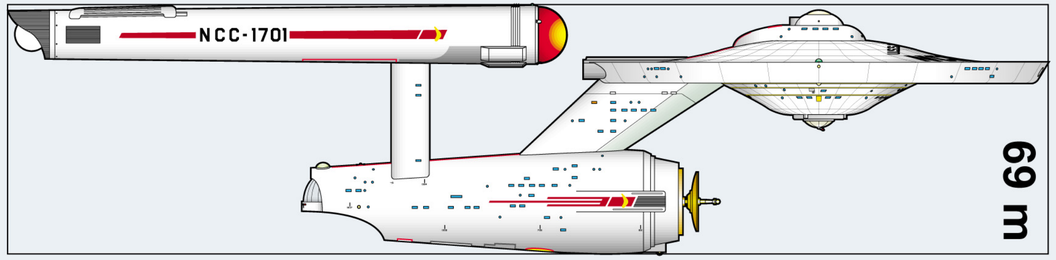
45.5 m



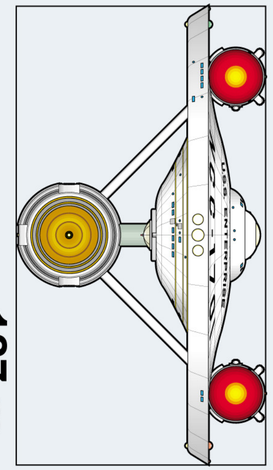
45.5 m



289 m

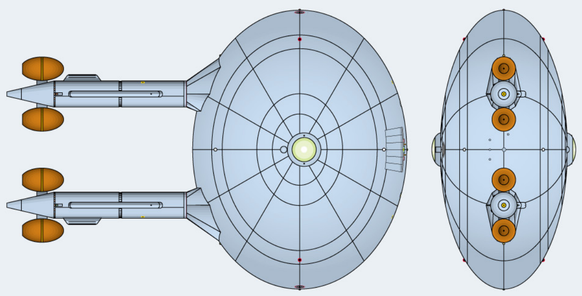


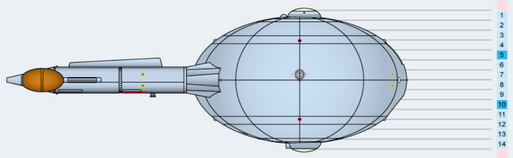
69 m



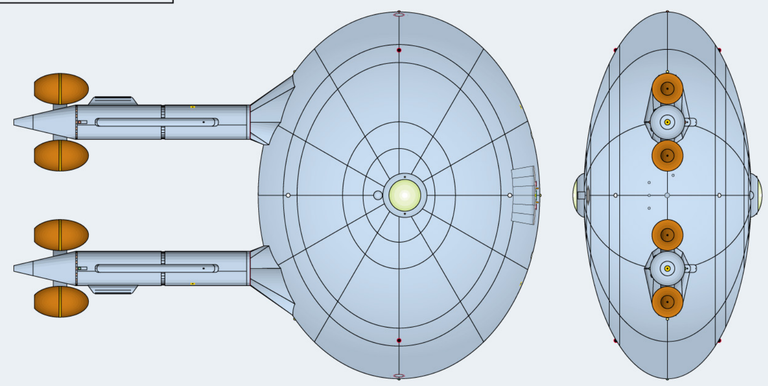
127 m

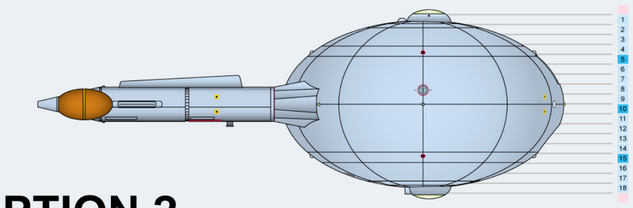
69 m



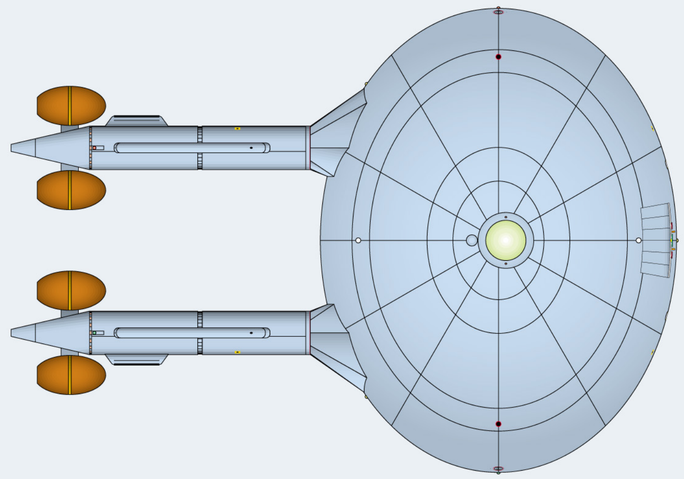


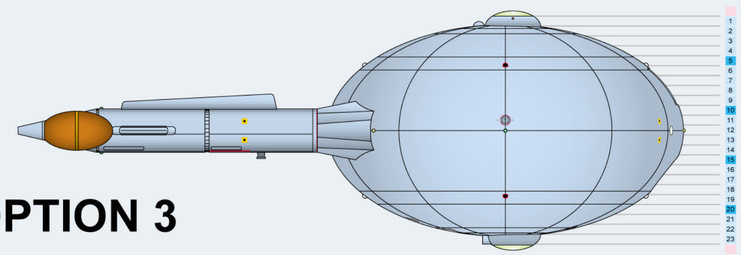
OPTION 1





OPTION 2





OPTION 3

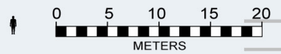
STAR TREK - MANN-CLASS CRUISER

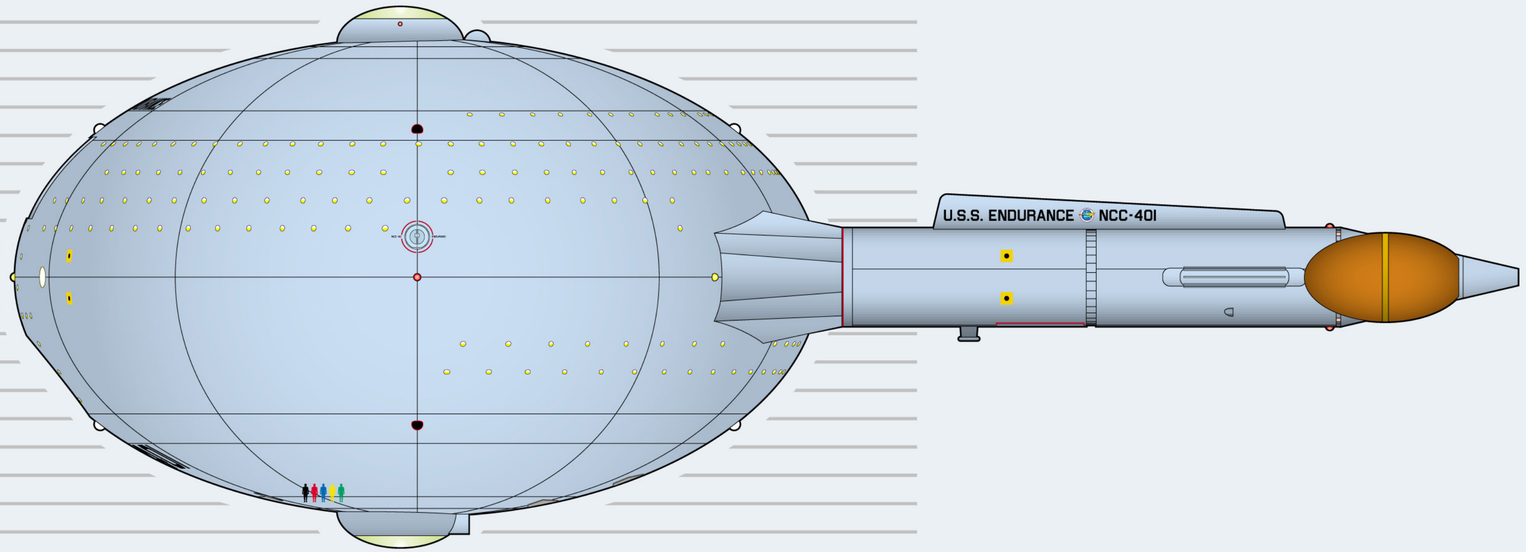
LAYOUT: PORT & STARBOARD PROFILE PAGE 3 of 25

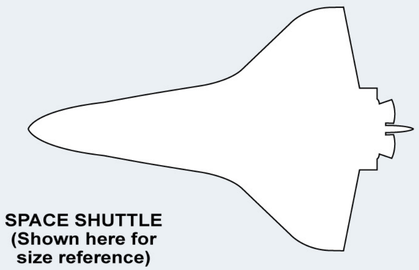
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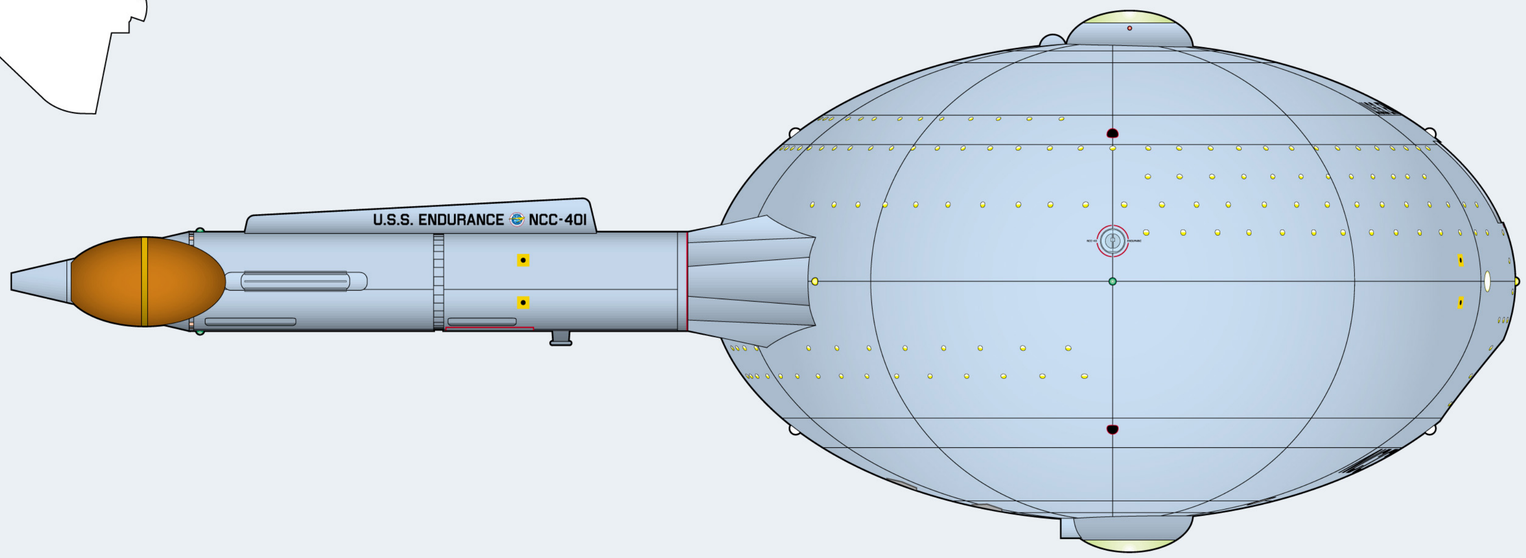
If printed 17 inches tall (from black-outlined edge to black-outlined edge) the scale of these drawings is 1/350.







SPACE SHUTTLE
(Shown here for
size reference)



SYMBOLS

- PARTICLE BEAM CANNON
- LASER TURRET
- PHOTON TORPEDO LAUNCHER
- SPACE ENERGY FIELD SENSORS
- REACTION CONTROL SYSTEM (THRUSTER)
- FORMATION LIGHTS

STAR TREK - MANN-CLASS CRUISER

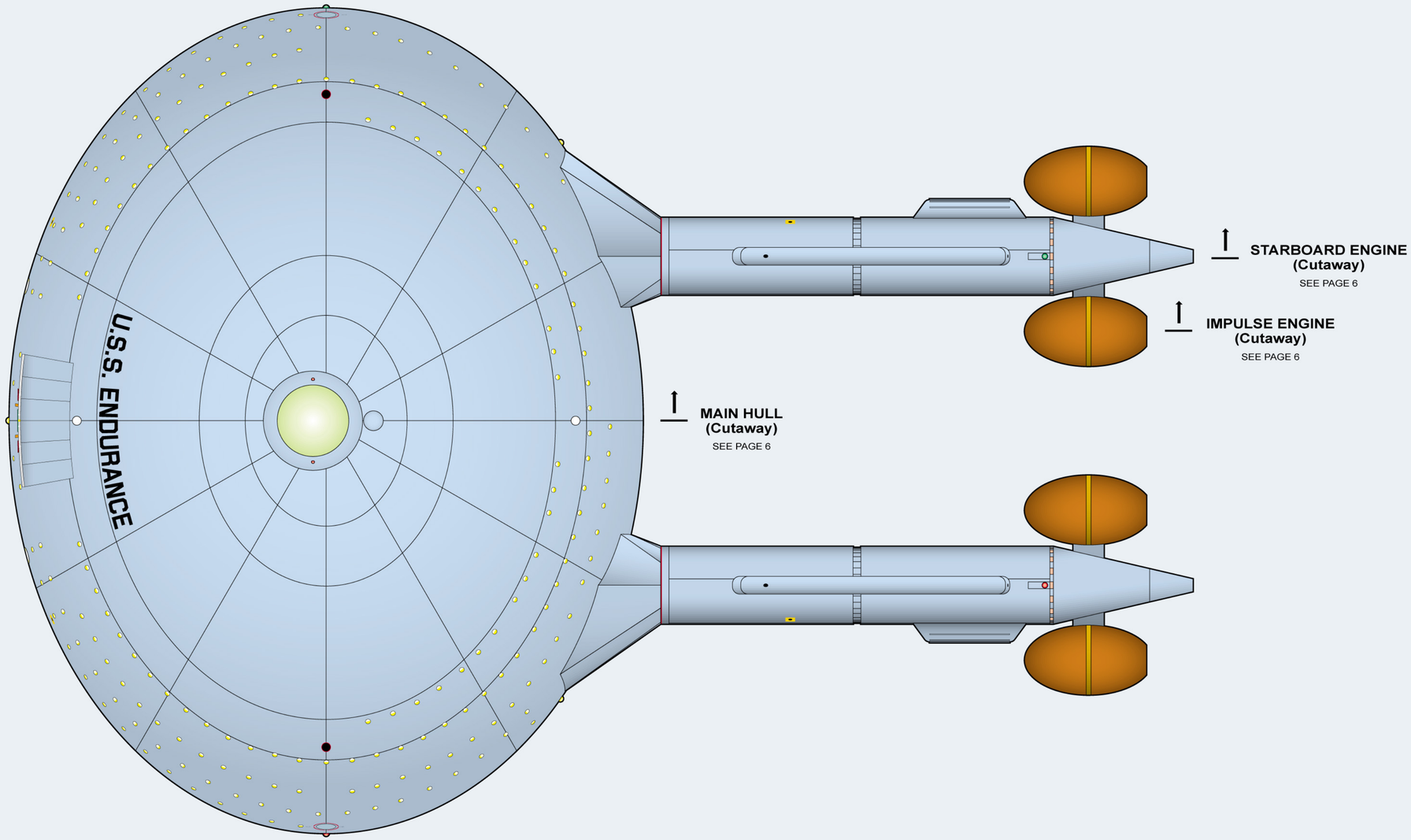
LAYOUT: TOP PAGE 4 of 25

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0 5 10 15 20
METERS



STARBOARD ENGINE (Cutaway)
SEE PAGE 6

IMPULSE ENGINE (Cutaway)
SEE PAGE 6

MAIN HULL (Cutaway)
SEE PAGE 6

STAR TREK - MANN-CLASS CRUISER

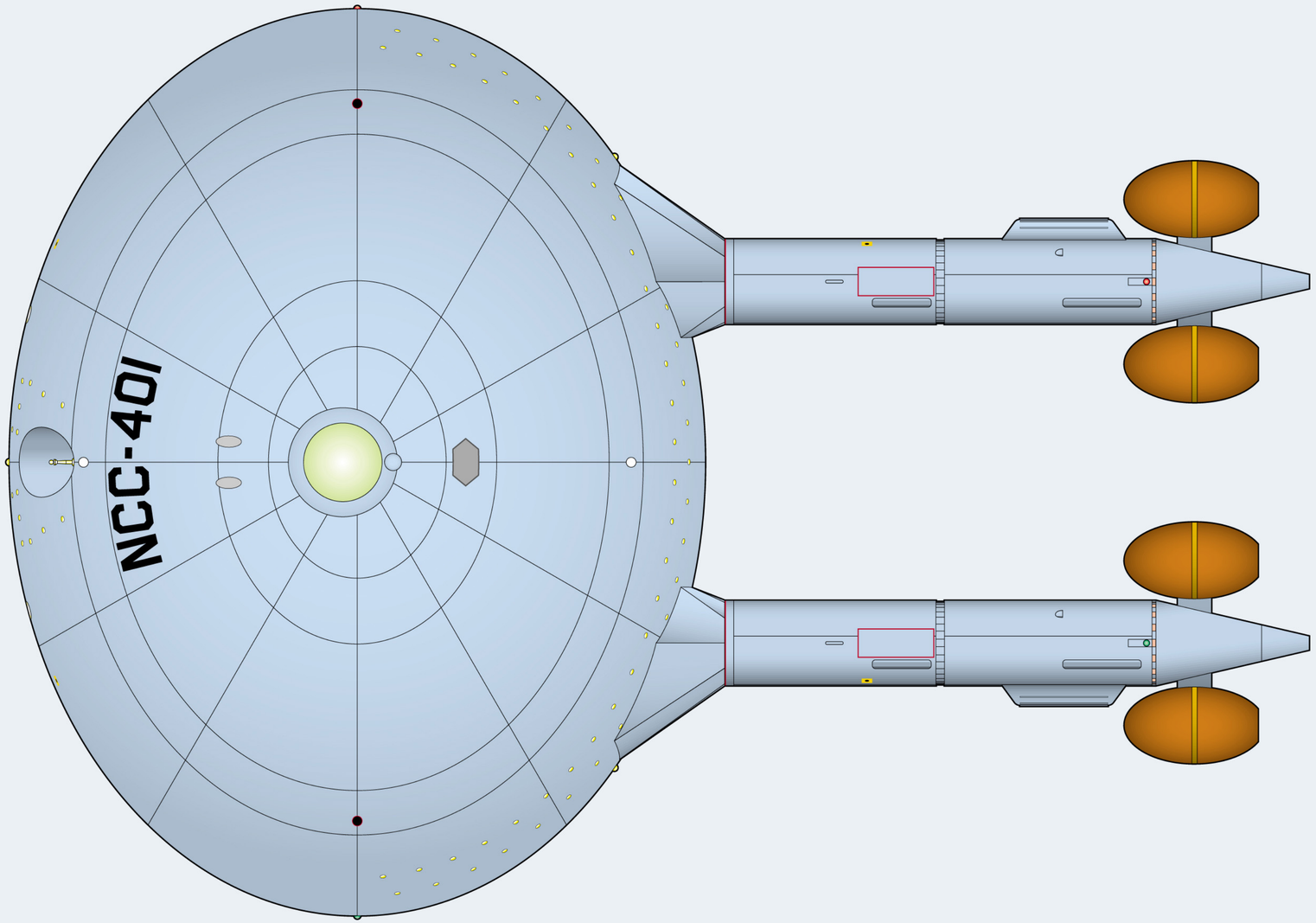
LAYOUT: BOTTOM PAGE 5 of 25

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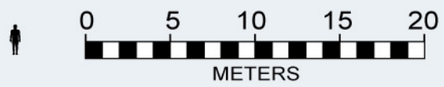
STAR TREK - MANN-CLASS CRUISER

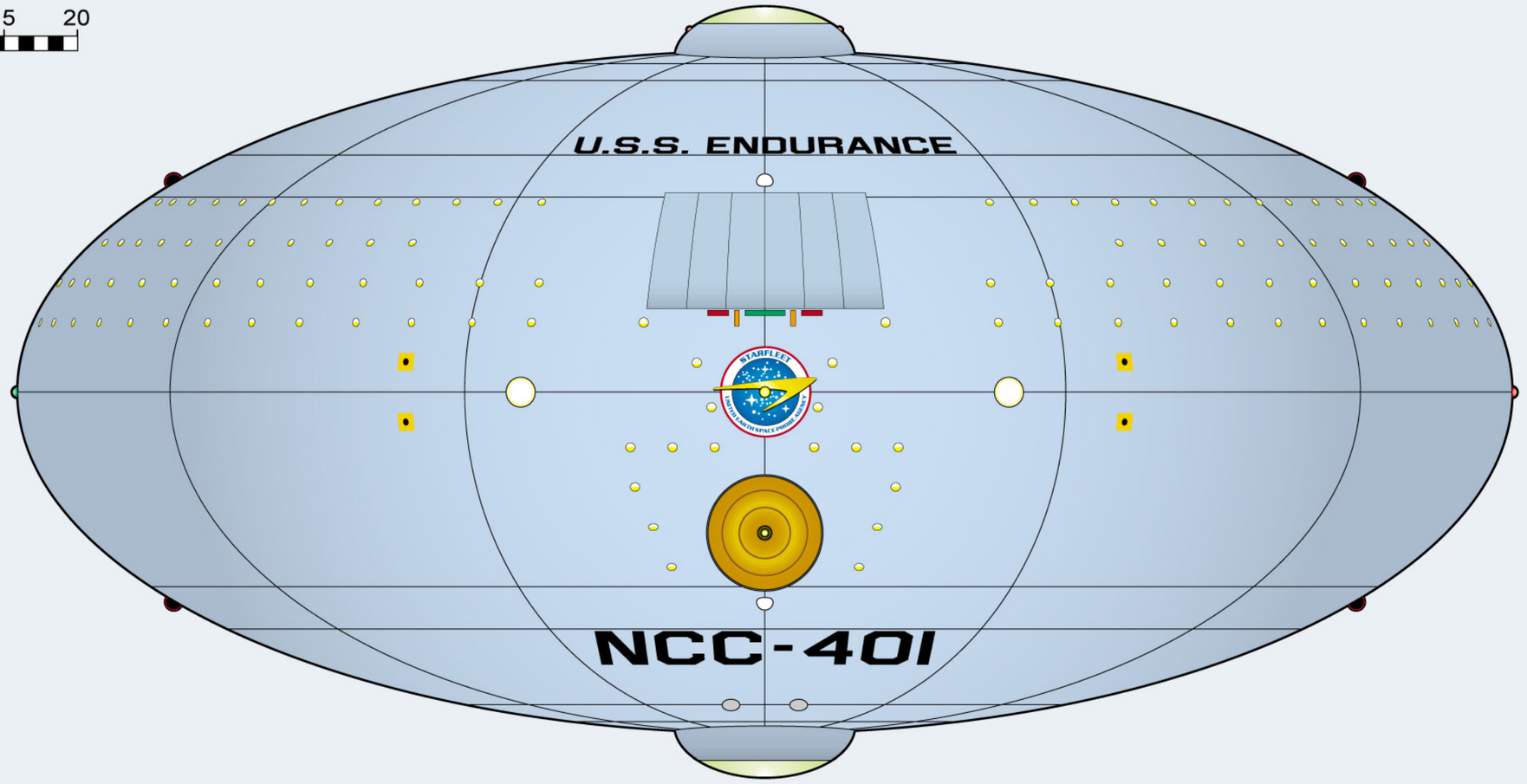
LAYOUT: FRONT and REAR

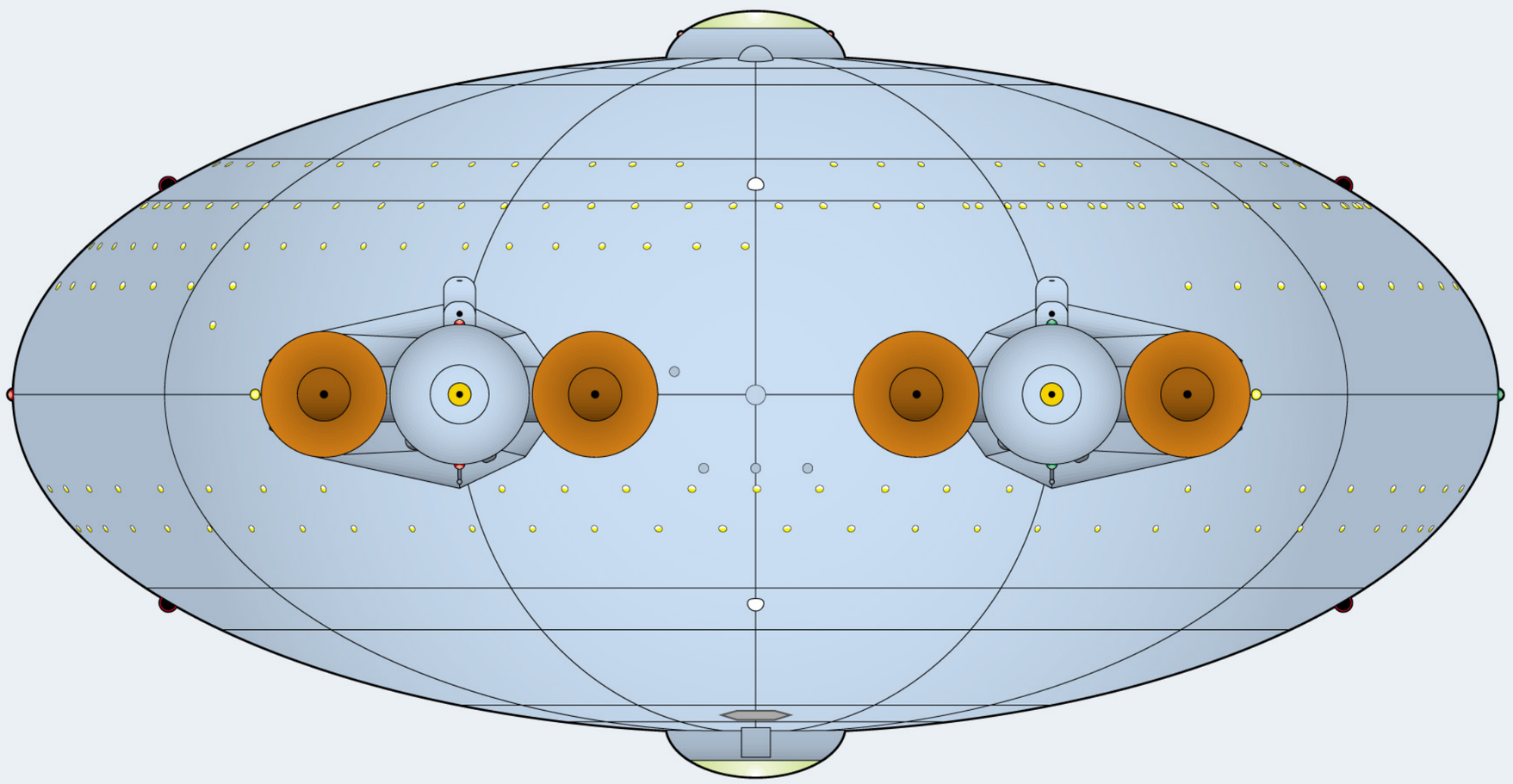
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STAR TREK - MANN-CLASS CRUISER

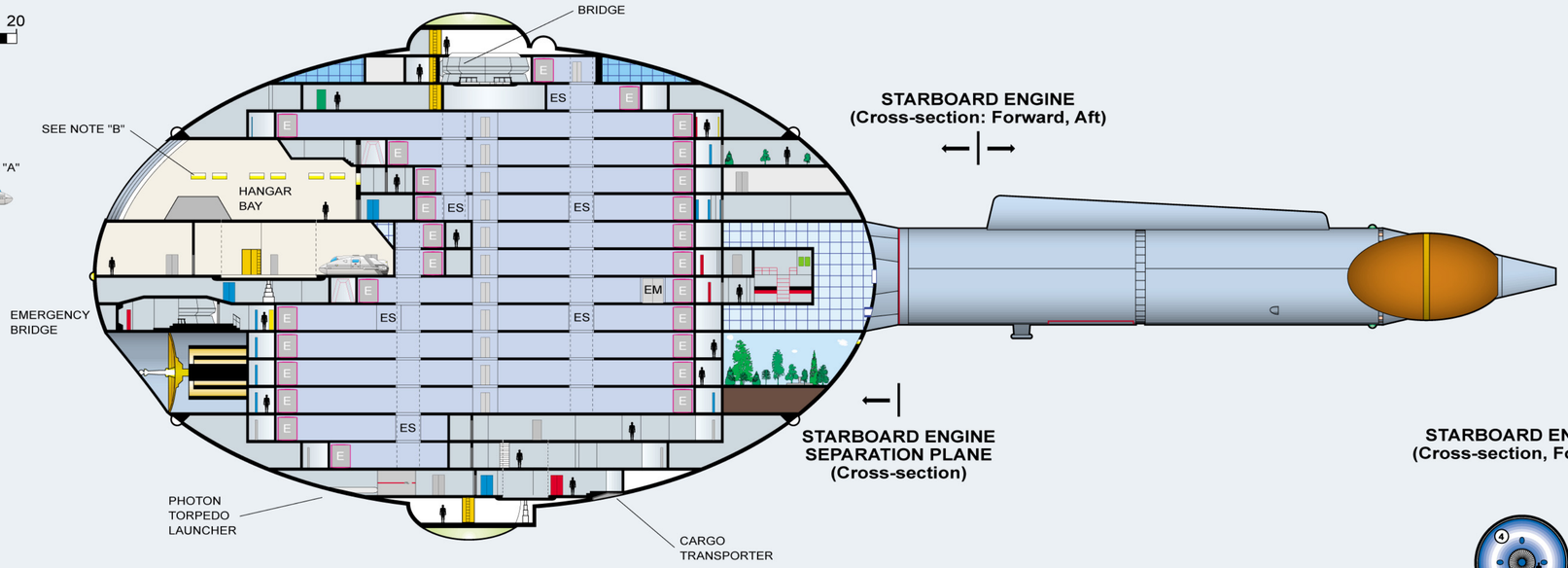
LAYOUT: CUTAWAY, ENGINE DETAILS PAGE 7 of 25

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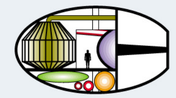
0 5 10 15 20
METERS



STARBOARD ENGINE
(Cross-section: Forward, Aft)

STARBOARD ENGINE
SEPARATION PLANE
(Cross-section)

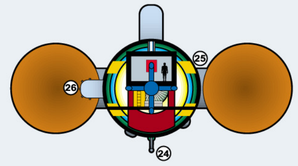
IMPULSE ENGINE
(Cutaway)



STARBOARD ENGINE
(Cross-section, Forward)



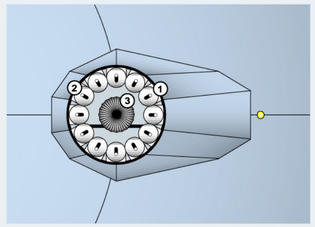
STARBOARD ENGINE
(Cross-section, Aft)



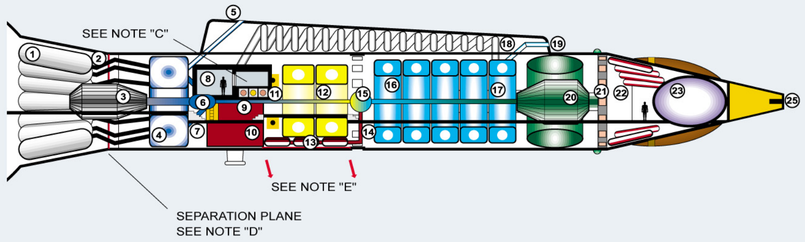
CALLOUTS

1. MATTER STORAGE (FUEL TANKS)
2. FUEL LINES
3. INDUCTION COIL
4. FIRST STAGE PLASMA CYCLOTRON
5. EMERGENCY PLASMA VENTS
6. MAGNETIC INJECTOR
7. PLASMA FEED LINES
8. INSPECTION STATION
9. POWER CONDUITS
10. ANTIMATTER GENERATOR
11. MANEUVERING THRUSTERS
12. SECOND STAGE PLASMA CYCLOTRON
13. ANTIMATTER STORAGE
14. ANTIMATTER FUEL LINES
15. ANTIMATTER INJECTOR
16. SPACE WARP GENERATOR
17. AXIALLY MOUNTED SPACE WARP MANIPULATORS
18. CHAMBERS COIL
19. ANTI-NEUTRON DISCHARGE VENTS
20. MATTER / ANTIMATTER INTEGRATOR
21. SPACE MATRIX RESTORATION (FIRST STAGE)
22. SPACE MATRIX RESTORATION (SECOND STAGE)
23. SPACE MATRIX RESTORATION (FINAL STAGE)
24. TACHYON DISSIPATION FIN
25. MANEUVERING THRUSTER
26. INTERCOOLER

STARBOARD ENGINE
SEPARATION PLANE
(Cross-section)



STARBOARD ENGINE
(Cutaway)



CUTAWAY SYMBOLS

- STRAIGHT WALL
- CUTAWAY ALONG WALL
- INNER FACE OF HULL
- CUTAWAY THROUGH DECK
- CUTAWAY THROUGH WALLS AND DOORS
- DOORS
- ISOLATION DOORS
- RECTANGULAR LADDER ALCOVE
- ROUND LADDER ALCOVE
- STAIRS
- RAILING
- TREE, SHRUB

NOTES

A

The Shuttlecraft shown here is from STAR TREK ENTERPRISE. It is the same approximate time period, and the size / shape fits with the Mann-class.

B

Even though all my other blueprints show windows in blue, I show the windows in yellow in these blueprints to match the painting by Rick Sternbach, which contrast nicely against the blue hull.

C

The Matter-Antimatter Reaction Chamber is heavily shielded and recessed within the Warp Engine nacelle.

D

The location of the "Separation Plane" for each Warp Engine was extrapolated from details visible on Rick Sternbach's painting. In the event of separation, the four (4) Impulse Engine modules are lost, but the fuel lines (2) can still provide a limited form of thrust and maneuvering.

E

Antimatter is created / stored in the engine nacelles. In an emergency, the red-outlined panels swing open and the antimatter is ejected downwards.

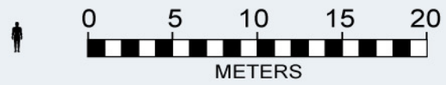
STAR TREK - MANN-CLASS CRUISER

LAYOUT: DECK 1 **PAGE 8 of 25**

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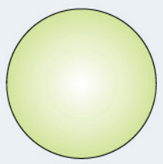
NOTES

DECK 1
Sensors are located on this deck.

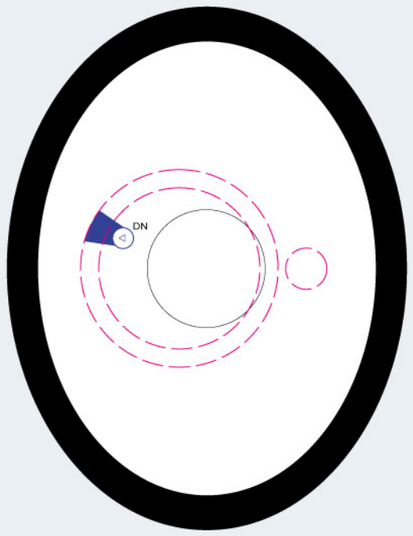
The exterior hull of the ship is a very sensitive skin linked to the sensors. This innovation was developed in 2151.

ABBREVIATIONS

AL	-	AIRLOCK
BL	-	BIO LAB
C	-	CORRIDOR
CC	-	COMMUNICATIONS OFFICER
CE	-	CHIEF ENGINEER
CM	-	CHIEF MEDICAL OFFICER
CN	-	CHIEF NURSE
CO	-	COMMANDING OFFICER
CON	-	CONVALESCENT WARD
CS	-	CHIEF OF SECURITY
CV	-	CHIEF NAVIGATOR
DC	-	DECOMPRESSION CHAMBER
DN	-	DOWN
DO	-	DENTAL OFFICE
E	-	TURBO-ELEVATOR CAR
EE	-	ENVIRONMENTAL ENGINEERING
EL	-	ENVIRONMENTAL SUIT LOCKER
EM	-	TURBO-ELEVATOR MAINTENANCE
EMS	-	ENGINEERING MACHINE SHOPS
EO	-	CHIEF ENGINEER'S OFFICE
ES	-	ELEVATOR STANDBY / STORAGE
FO	-	FIRST OFFICER
IC	-	INSPECTION CORRIDOR
LAB	-	LABORATORY
MN	-	DUTY NURSE
MO	-	DOCTOR'S OFFICE
MS	-	MEDICAL SUPPLIES
OBS	-	OBSTETRICS
OG	-	OBSERVATION GALLERY
OR	-	OPERATING ROOM
P	-	PORT (LEFT)
PLS	-	PLACES
PO	-	PSYCHIATRIST'S OFFICE
PWT	-	PIPING / WIRING TRUNK
S	-	STARBOARD (RIGHT)
SO	-	SECURITY OFFICE
SCO	-	SECURITY CHIEF'S OFFICE
ST	-	STORAGE
TL	-	TOILET
WR	-	WAITING ROOM
XE	-	TRANSPORTER EQUIPMENT
XR	-	TRANSPORTER ROOM
YO	-	YEOMAN'S QUARTERS



UPPER SENSOR DOME



DECK 1: UPPER SENSORS

PLAN SYMBOLS



CHAIRS

TABLES

DINING TABLE

SHOWER, TUB

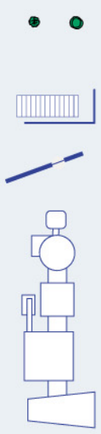
DRESSERS

BED

ROOM PARTITIONS
- White circular grille
- Red hexagonal grille

TOILET, SINK

LADDERS



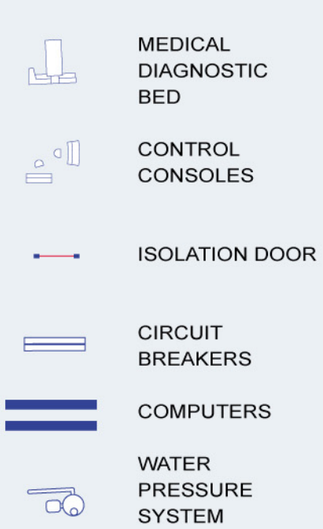
TREE, SHRUB

STAIRS, RAILING

WALL and DOOR

AIR CONDITIONING EQUIPMENT

BATTERIES



MEDICAL DIAGNOSTIC BED

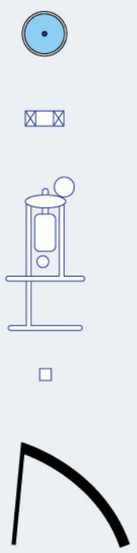
CONTROL CONSOLES

ISOLATION DOOR

CIRCUIT BREAKERS

COMPUTERS

WATER PRESSURE SYSTEM

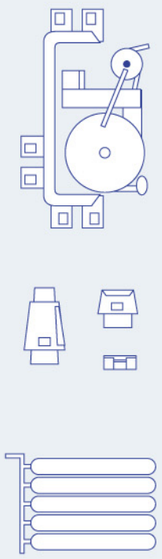


FOUNTAIN

LAUNDRY UNIT

WATER PUMP MACHINERY

HULL THICKNESS AT FLOOR LEVEL (Varies depending on hull curvature)



SANITARY WASTE RECOVERY SYSTEM

MATERIAL FABRICATION / RECLAMATION MACHINERY

STANDARD GASES

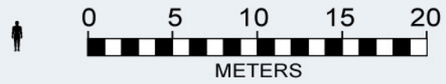
STAR TREK - MANN-CLASS CRUISER

LAYOUT: DECK 2 **PAGE 9 of 25**

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NOTES

DECK 2
The Bridge is located on this deck, below the Sensors on Deck 1.

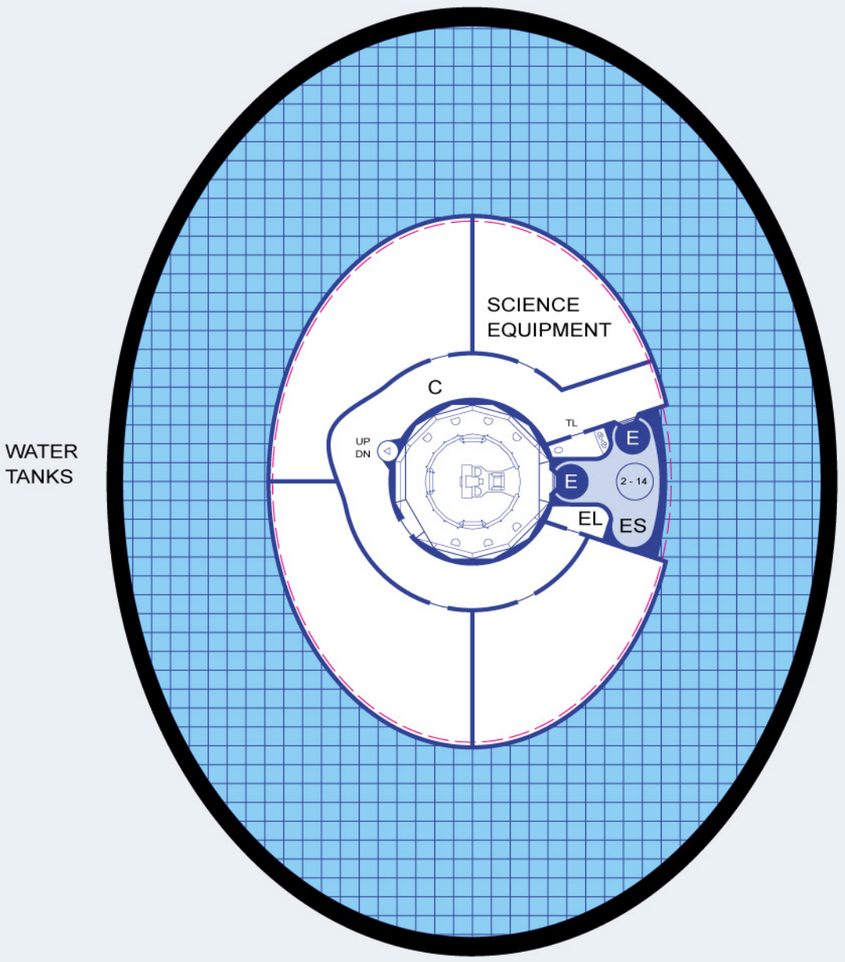
Science Equipment is shown around the Bridge. This support equipment links the Sensors above to the science stations on Deck 4.

The curve of the ceiling is very shallow outboard of the Science Equipment.

The Main Water Tank is around the Science Equipment.

KNOWN SHIPS

U.S.S. MANN _____ NCC-400
U.S.S. ENDURANCE _____ NCC-401



DECK 2: BRIDGE / WATER

SHIP DATA

LENGTH:	182 m
WIDTH:	127 m
HEIGHT:	65 m
TRANSPORTER cargo:	1
SHUTTLECRAFT:	1 - 2
LASERS	4
PARTICLE BEAM CANNONS	4
TORPEDO TUBES:	2

UESPA to UFP
2060 TO 2260

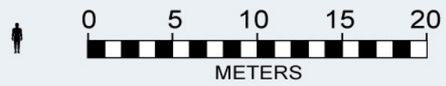
STAR TREK - MANN-CLASS CRUISER

LAYOUT: DECK 3 **PAGE 10 of 25**

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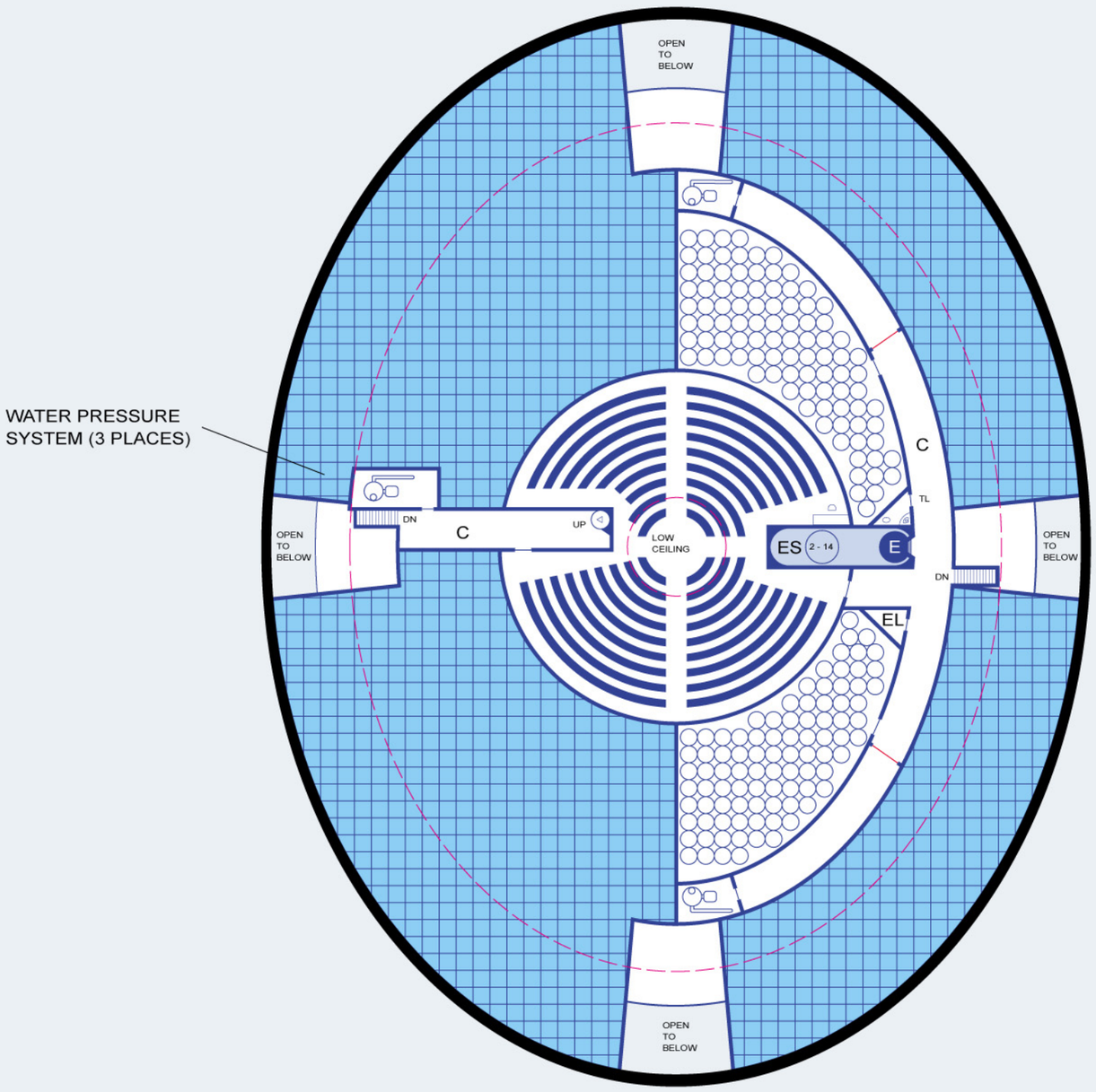
NOTES

DECK 3
The Water Tank continues down from Deck 2 and occupies most of this deck.

The ship's Computers are in the center of the deck.

The highbay of the upper Weapons Stations are located on this deck.

The remaining space contains Batteries.



DECK 3: WATER / COMPUTERS / BATTERIES

STAR TREK - MANN-CLASS CRUISER

LAYOUT: DECK 4

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0 5 10 15 20
METERS

NOTES

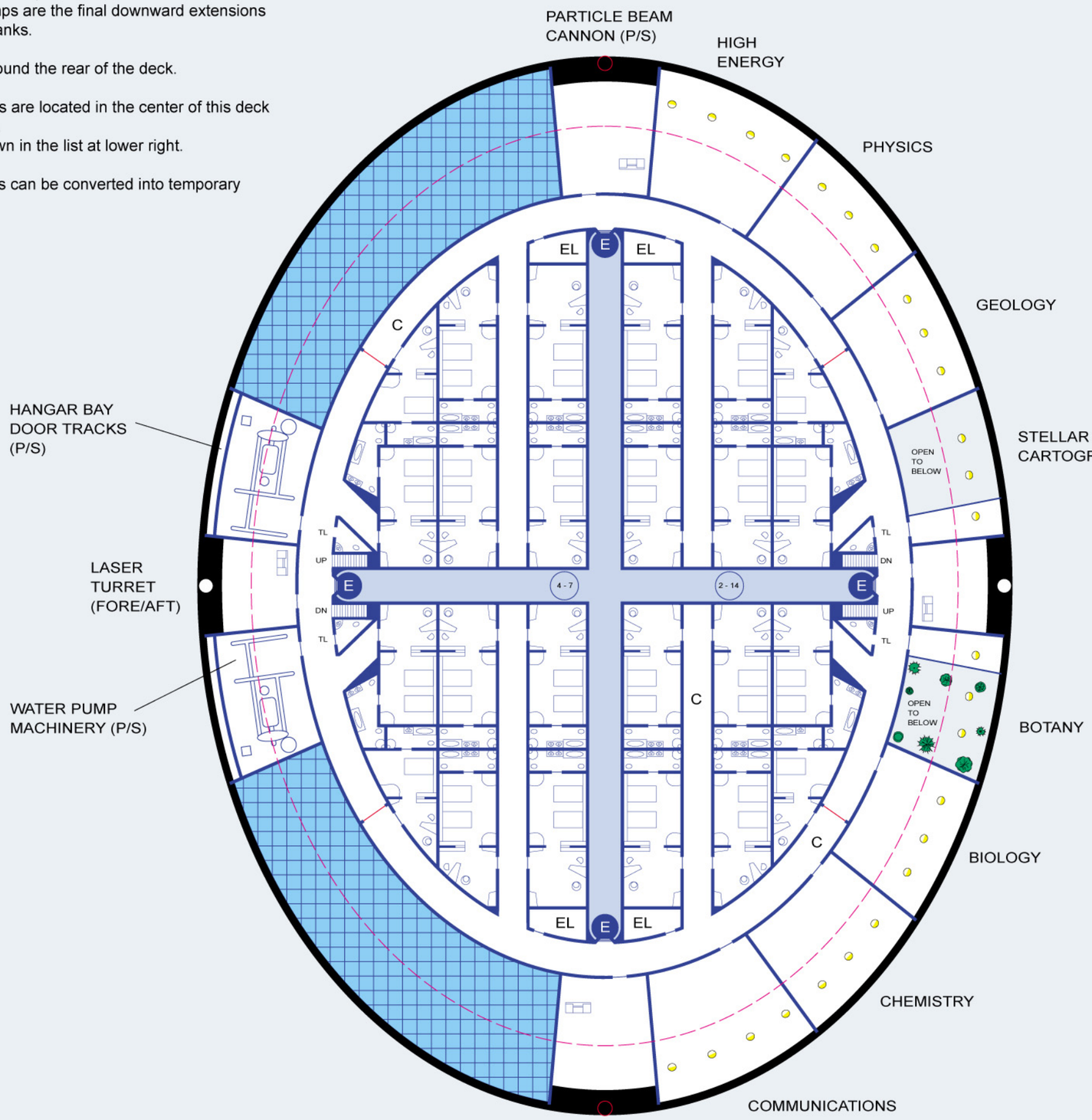
DECK 4
The main level of the upper Weapons Stations (2 Laser Turrets and 2 Particle Bean Cannon Turrets) are located on this deck.

On either side of the forward Weapon Station are the Main Water Pumps. Outboard of the pumps are the final downward extensions of the main Water Storage Tanks.

Science Labs are located around the rear of the deck.

The first of the Crew Quarters are located in the center of this deck as well as many other decks.
The exact distribution is shown in the list at lower right.

In emergencies, other spaces can be converted into temporary living spaces.



DECK 4: WEAPONS / SCIENCES

SHIP'S COMPLEMENT

OFFICERS	14
ENLISTED	280
TOTAL	294

ACCOMMODATIONS

DECK 4 -	44
DECK 5 -	21
DECK 6 -	21
DECK 7 -	20
DECK 8 -	21
DECK 10 -	18
DECK 11 -	38
DECK 12 -	42
DECK 13 -	42
DECK 14 -	42
TOTAL	309

STAR TREK - MANN-CLASS CRUISER

LAYOUT: DECK 5 **PAGE 12 of 25**

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METERS

NOTES

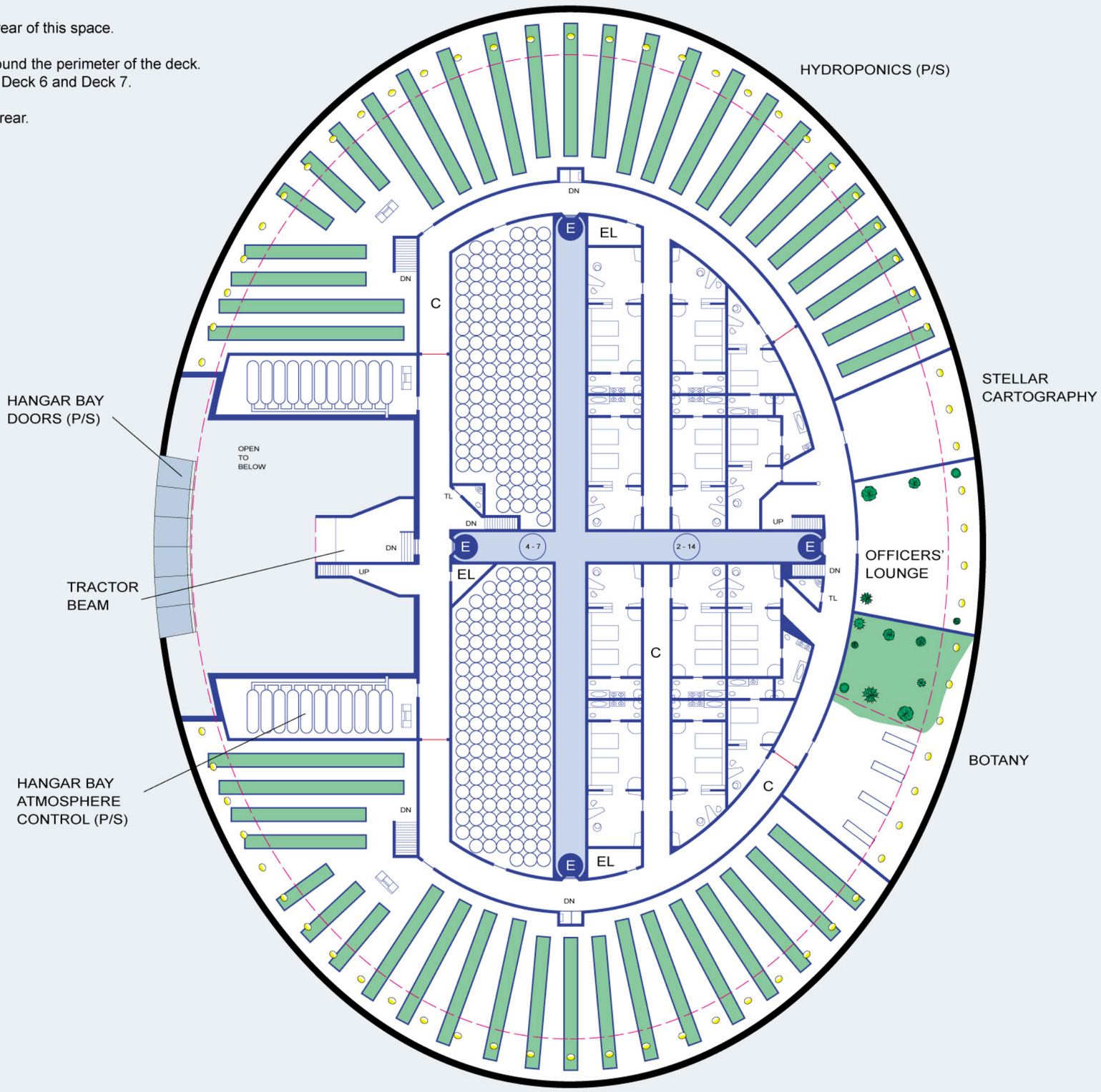
DECK 5
The Hangar Bay is located at the front of this deck.

Atmosphere Control for the Hangar Bay is located to port and starboard of the Hangar Bay.

The Tractor Beam is at the rear of this space.

Hydroponics are located around the perimeter of the deck. Similar Bays are located on Deck 6 and Deck 7.

The Officer's Lounge at the rear.



DECK 5: HYDROPONICS / OFFICERS' LOUNGE

STAR TREK - MANN-CLASS CRUISER

LAYOUT: DECK 6 **PAGE 13 of 25**

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METERS

NOTES

DECK 6
The Hangar Bay is located at the front of this deck. An Observation Gallery is on either side of the Hangar Bay.

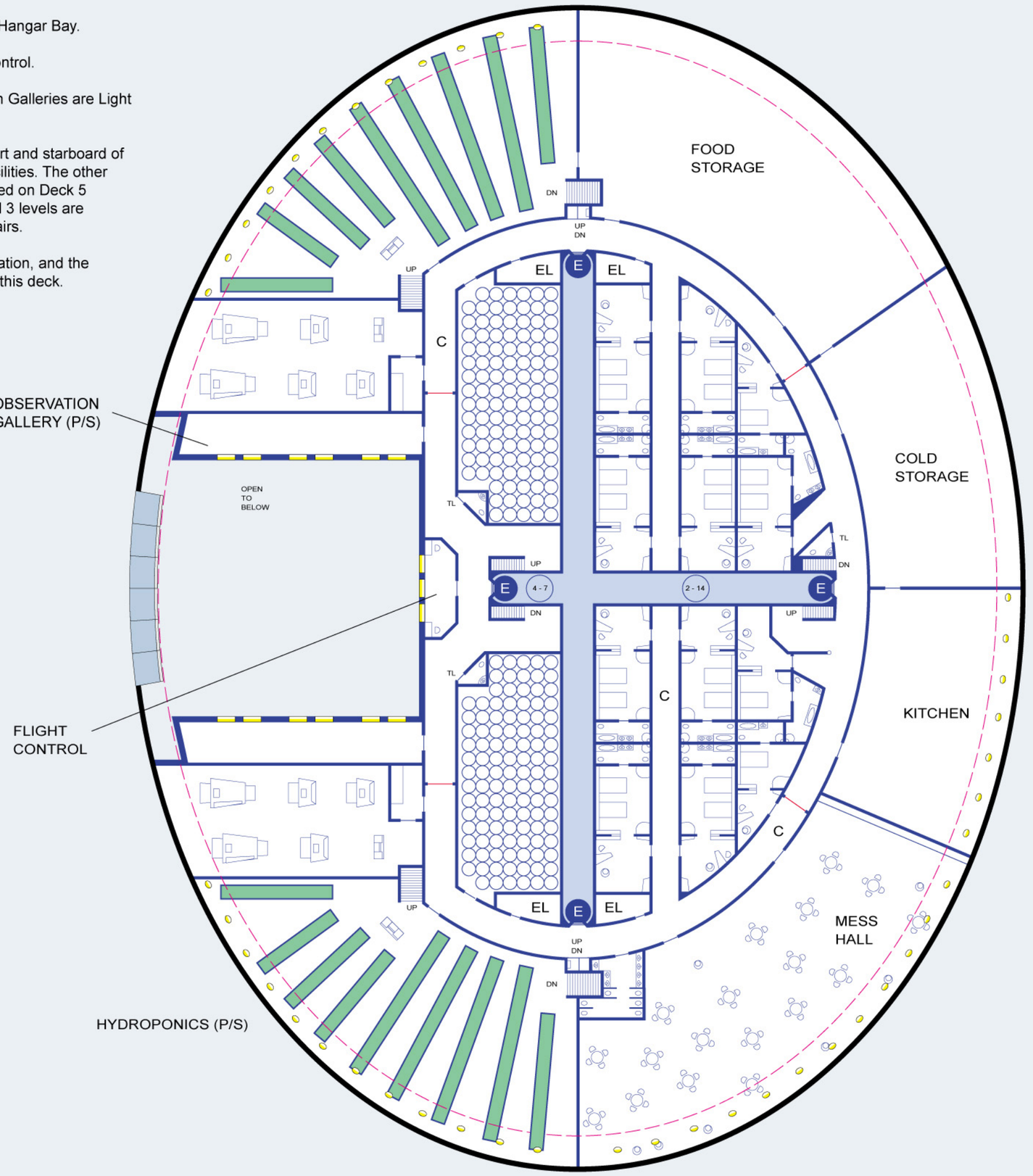
Flight Control is behind the Hangar Bay.

Batteries are aft of Flight Control.

Outboard of the Observation Galleries are Light Manufacturing Facilities.

More Hydroponics are to port and starboard of the Light Manufacturing Facilities. The other Hydroponics Bays are located on Deck 5 and Deck 7. The Bays on all 3 levels are interconnected with wide stairs.

Food Storage, Food Preparation, and the Mess Hall are at the rear of this deck.



DECK 6: HYDROPONICS / FOOD STORAGE / MESS HALL

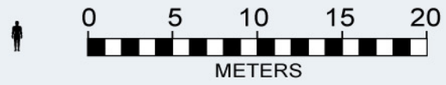
STAR TREK - MANN-CLASS CRUISER

LAYOUT: DECK 7 **PAGE 14 of 25**

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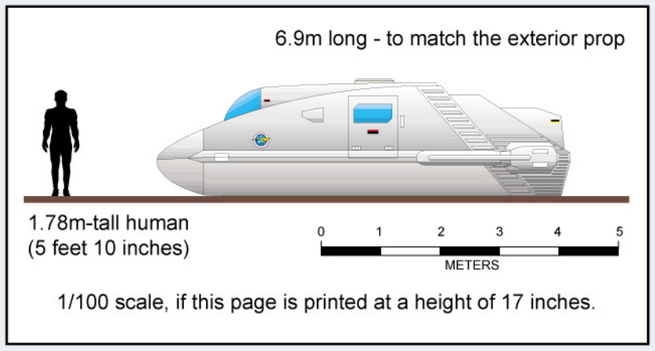
NOTES

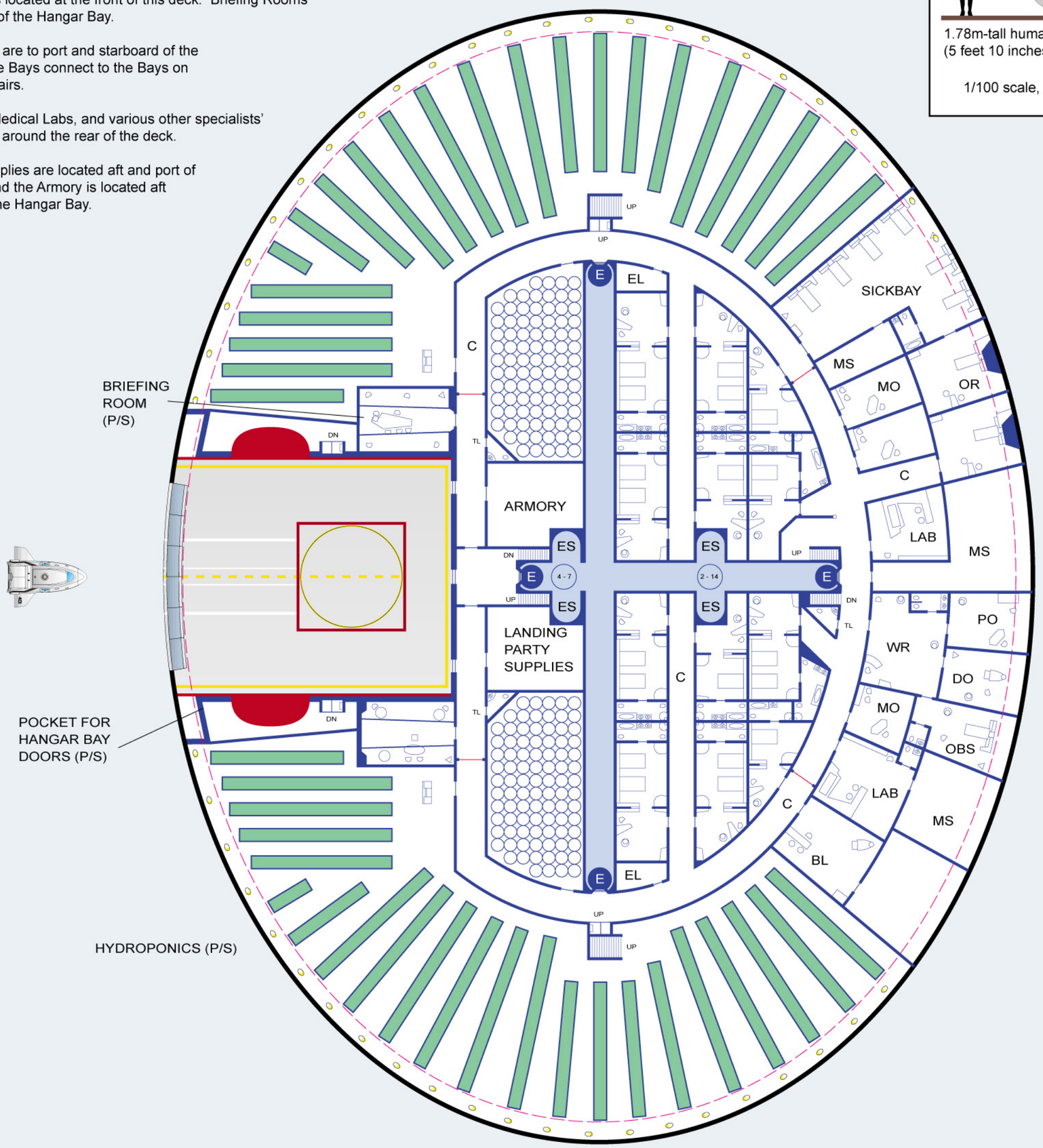
DECK 7
The Hangar Bay is located at the front of this deck. Briefing Rooms are on either side of the Hangar Bay.

More Hydroponics are to port and starboard of the Hangar Bay. These Bays connect to the Bays on Deck 6 via wide stairs.

Sickbay, various Medical Labs, and various other specialists' offices are located around the rear of the deck.

Landing Party Supplies are located aft and port of the Hangar Bay and the Armory is located aft and starboard of the Hangar Bay.





DECK 7: HANGAR BAY / HYDROPONICS / SICKBAY

STAR TREK - MANN-CLASS CRUISER

LAYOUT: DECK 8 **PAGE 15 of 25**

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0 5 10 15 20
METERS

NOTES

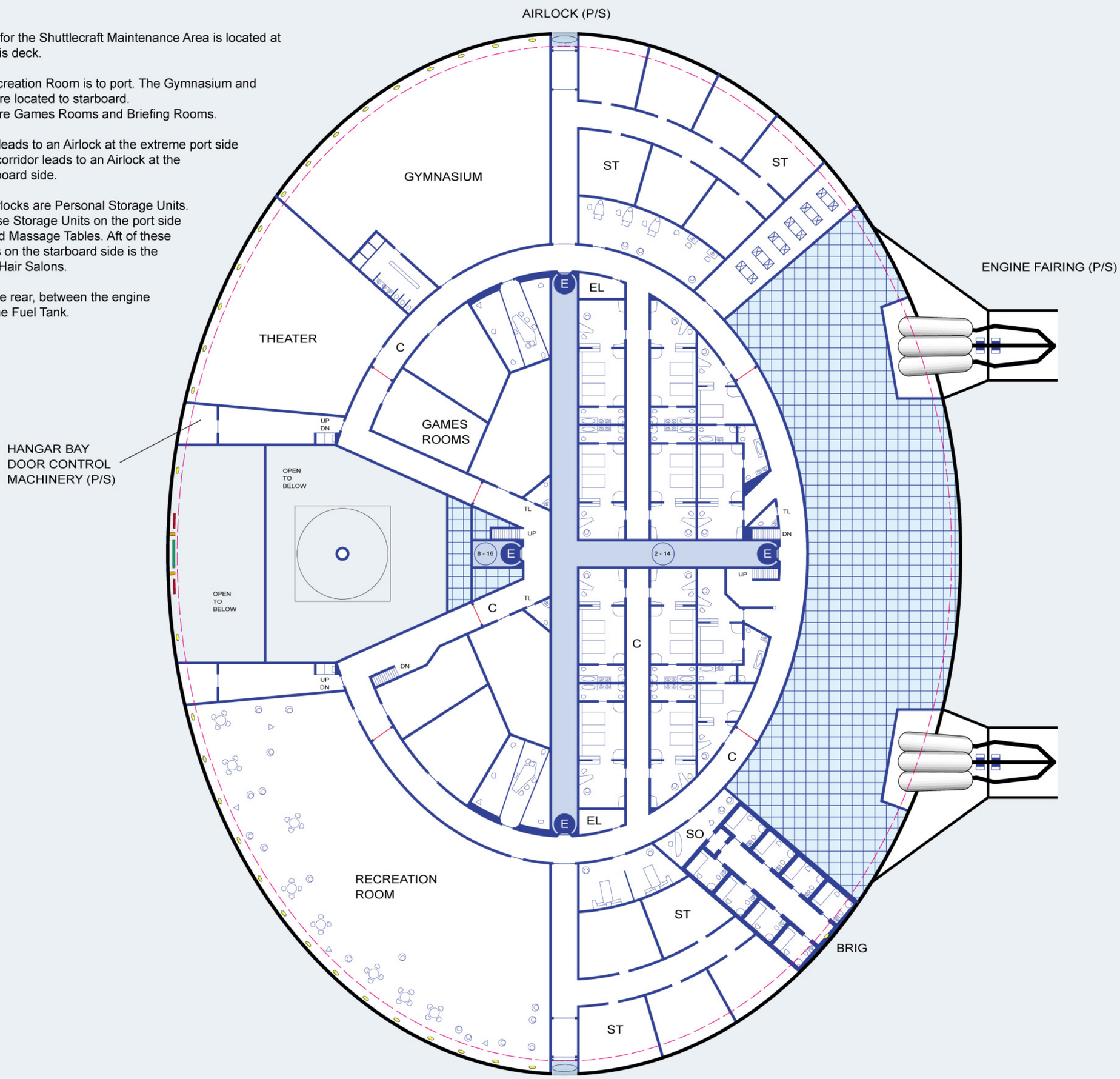
DECK 8
The Highbay for the Shuttlecraft Maintenance Area is located at the front of this deck.

The main Recreation Room is to port. The Gymnasium and the Theater are located to starboard.
Aft of these are Games Rooms and Briefing Rooms.

One corridor leads to an Airlock at the extreme port side and another corridor leads to an Airlock at the extreme starboard side.

Aft of both Airlocks are Personal Storage Units. Aft of the these Storage Units on the port side is the Brig and Massage Tables. Aft of these Storage Units on the starboard side is the Laundry and Hair Salons.

At the extreme rear, between the engine nacelles, is the Fuel Tank.



DECK 8: SERVICES / BRIG / FUEL

STAR TREK - MANN-CLASS CRUISER

LAYOUT: DECK 9 **PAGE 16 of 25**

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0 5 10 15 20
METERS

NOTES

DECK 9
At the front of this deck is the Cargo Processing Area. Behind that is the Shuttlecraft Maintenance Area. Fuel for the Shuttlecraft is aft of that area and cargo holds for Shuttlecraft maintenance are on either side.

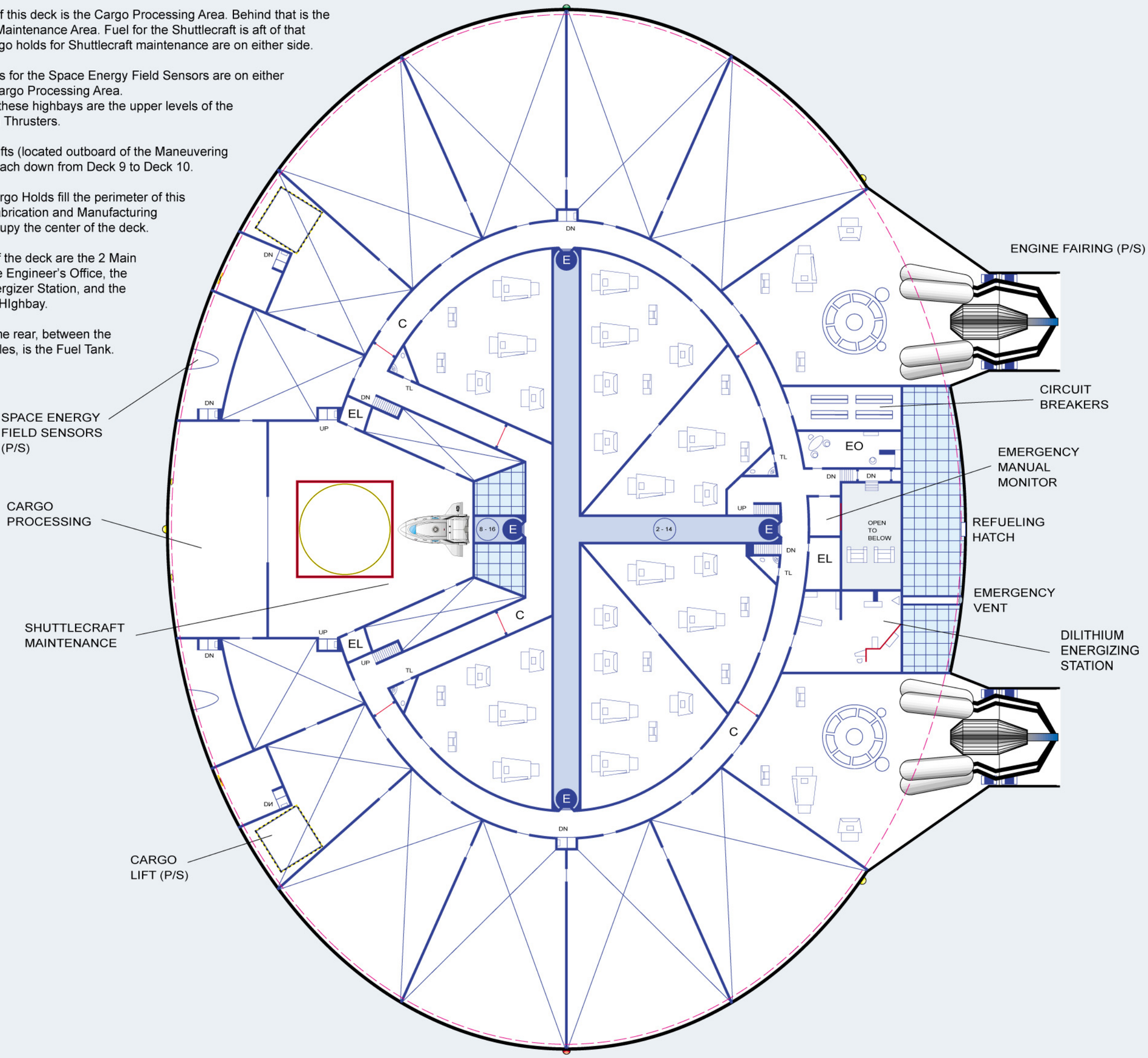
The Highbays for the Space Energy Field Sensors are on either side of the Cargo Processing Area.
Outboard of these highbays are the upper levels of the Maneuvering Thrusters.

The Cargo Lifts (located outboard of the Maneuvering Thrusters) reach down from Deck 9 to Deck 10.

The main Cargo Holds fill the perimeter of this deck. The Fabrication and Manufacturing Facilities occupy the center of the deck.

At the rear of the deck are the 2 Main Reactors, the Engineer's Office, the Dilithium Energizer Station, and the Engineering HIghbay.

At the extreme rear, between the engine nacelles, is the Fuel Tank.



DECK 9: SHUTTLECRAFT MAINTENANCE / CARGO / ENGINEERING

STAR TREK - MANN-CLASS CRUISER

LAYOUT: DECK 10 **PAGE 17 of 25**

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0 5 10 15 20
METERS

NOTES

DECK 10
At the front of this deck are the ship's Auxiliary Computers.

On either side of the computers is the main level of the Space Energy Field Sensors and Deflector Equipment.

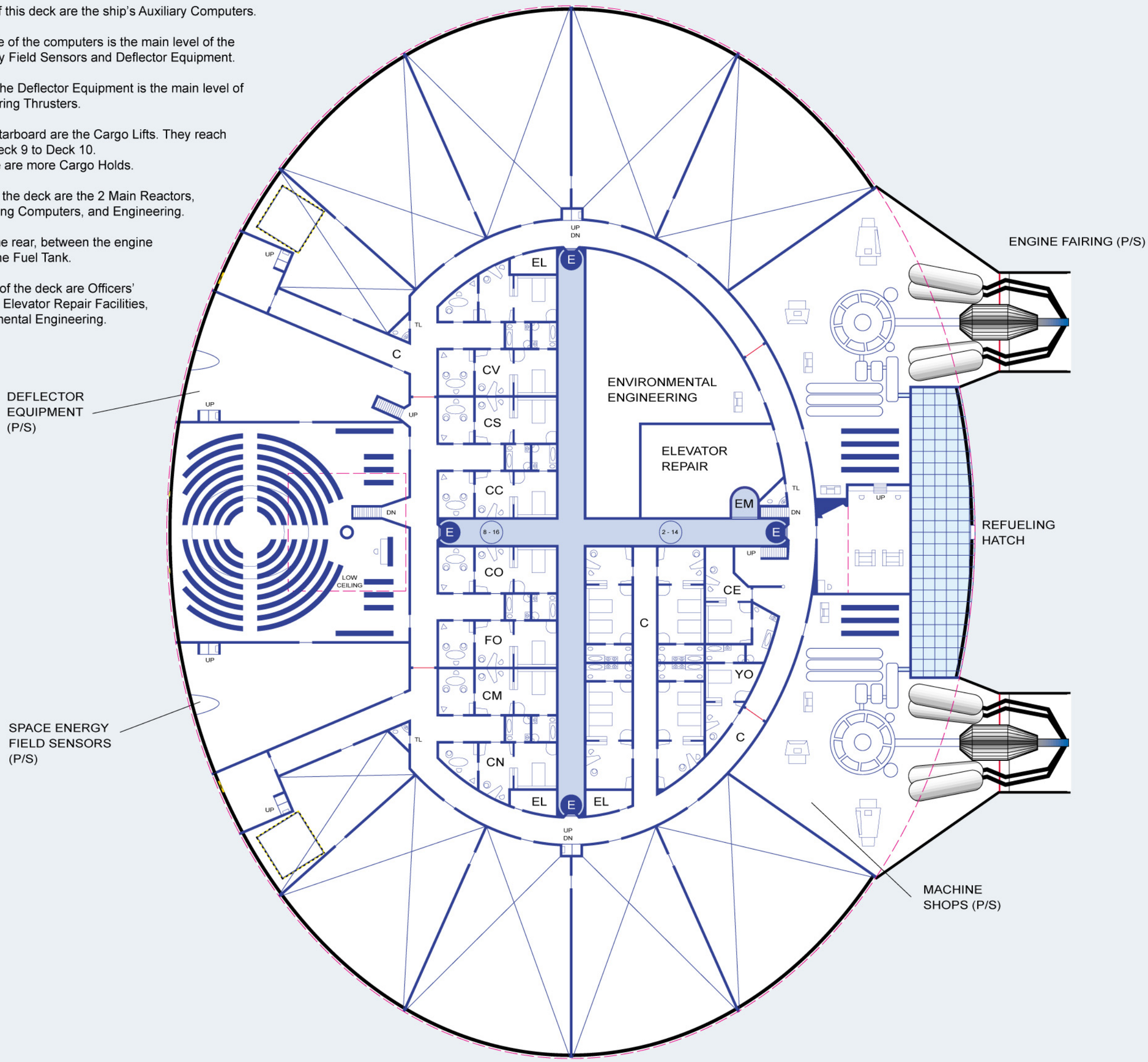
Outboard of the Deflector Equipment is the main level of the Maneuvering Thrusters.

To port and starboard are the Cargo Lifts. They reach down from Deck 9 to Deck 10.
To either side are more Cargo Holds.

At the rear of the deck are the 2 Main Reactors, the Engineering Computers, and Engineering.

At the extreme rear, between the engine nacelles, is the Fuel Tank.

In the center of the deck are Officers' Quarters, the Elevator Repair Facilities, and Environmental Engineering.



DECK 10: CARGO / OFFICERS' QUARTERS / ENGINEERING

STAR TREK - MANN-CLASS CRUISER

LAYOUT: DECK 11 **PAGE 18 of 25**

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METERS

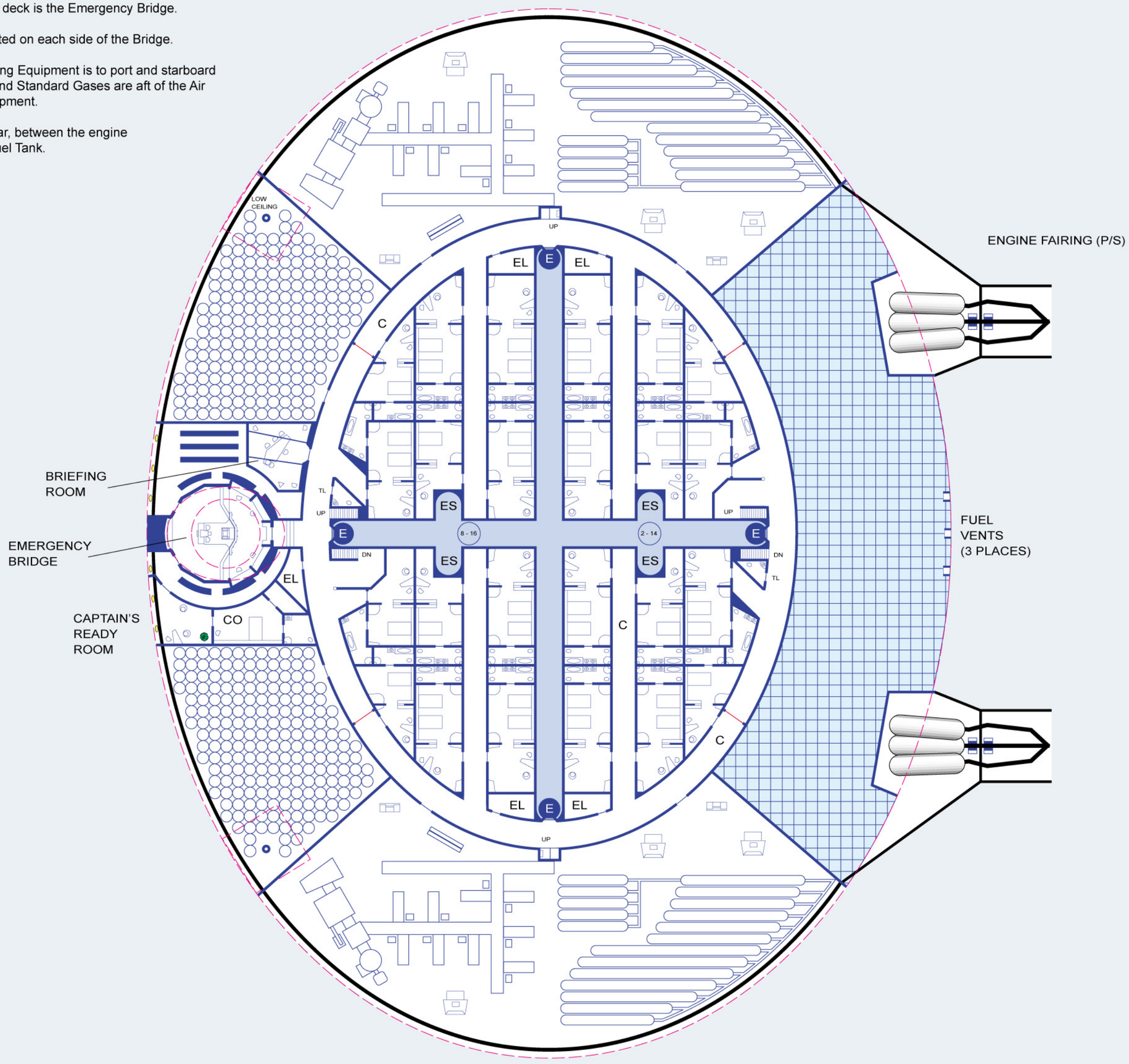
NOTES

DECK 11
At the front of this deck is the Emergency Bridge.

Batteries are located on each side of the Bridge.

The Air Conditioning Equipment is to port and starboard of the Batteries, and Standard Gases are aft of the Air Conditioning Equipment.

At the extreme rear, between the engine nacelles, is the Fuel Tank.



DECK 11: BRIDGE / AIR CONDITIONING / FUEL

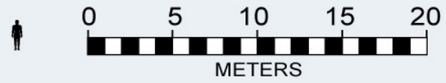
STAR TREK - MANN-CLASS CRUISER

LAYOUT: DECK 12

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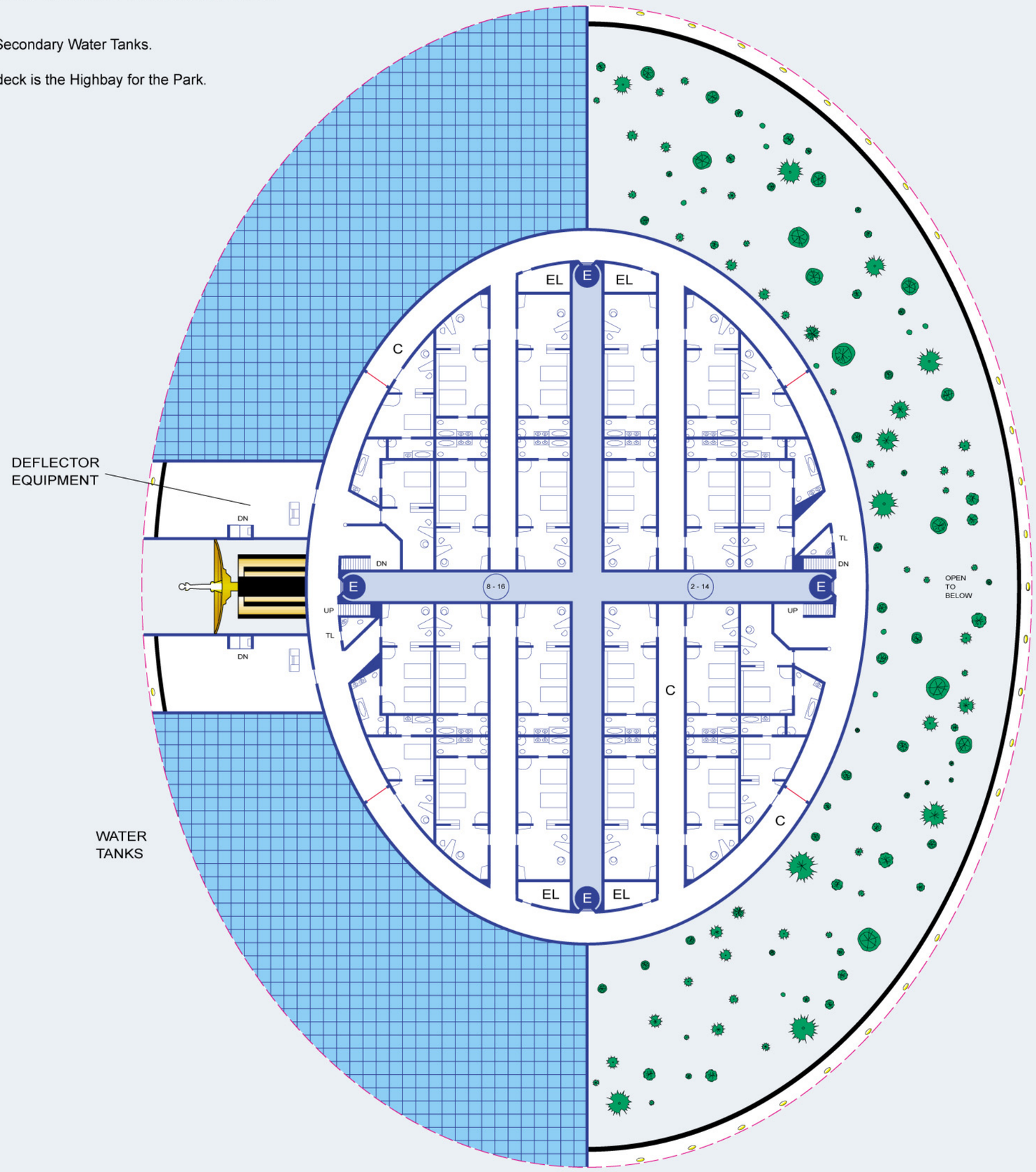


NOTES

DECK 12
At the front of this deck is the Main Sensor Dish and its associated Deflector Equipment.

On either side are the Secondary Water Tanks.

Around the rear of the deck is the Highbay for the Park.



DECK 12: DEFLECTOR / WATER / PARK

STAR TREK - MANN-CLASS CRUISER

LAYOUT: DECK 13

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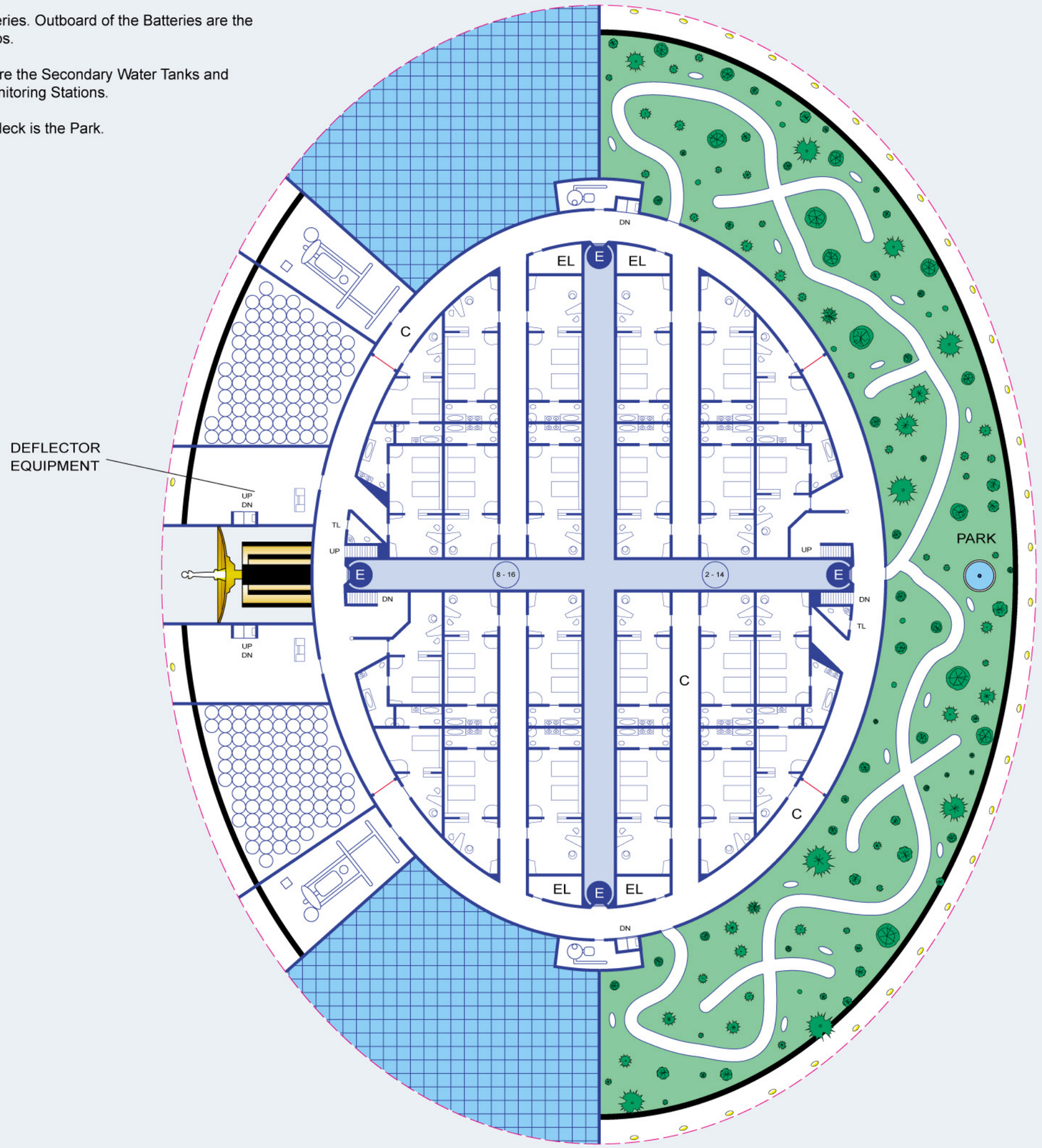
NOTES

DECK 13
At the front of this deck is the Main Sensor Dish and its associated Deflector Equipment.

On either side are Batteries. Outboard of the Batteries are the Secondary Water Pumps.

To port and starboard are the Secondary Water Tanks and the Water Pressure Monitoring Stations.

Around the rear of the deck is the Park.



DECK 13: DEFLECTOR / WATER / PARK

STAR TREK - MANN-CLASS CRUISER

LAYOUT: DECK 14 **PAGE 21 of 25**

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METERS

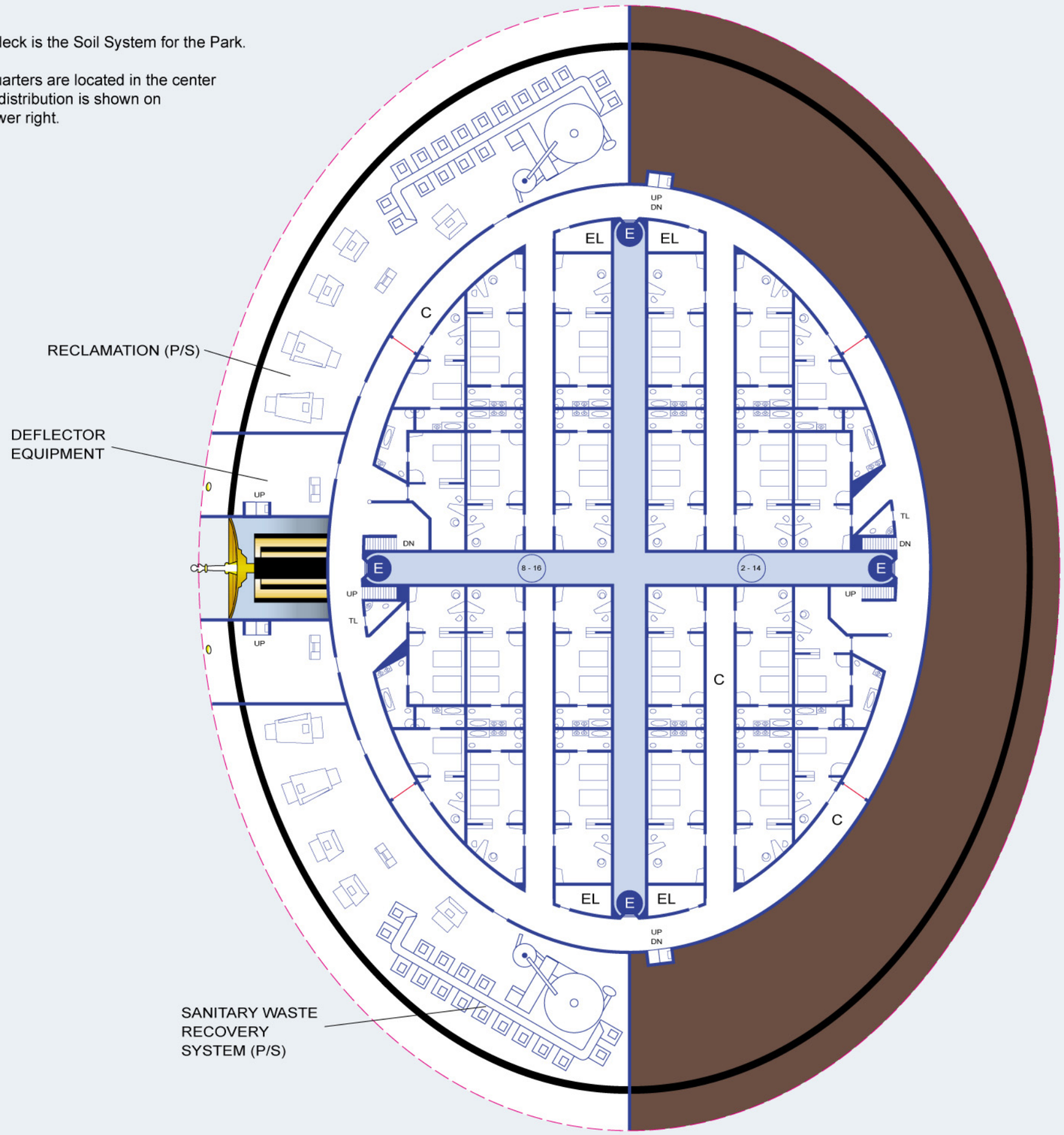
NOTES

DECK 14
At the front of this deck is the Main Sensor Dish and its associated Deflector Equipment.

On either side are the Sanitary Waste Recovery Systems and the Reclamation Facilities.

Around the rear of the deck is the Soil System for the Park.

The last of the Crew Quarters are located in the center of this deck. The exact distribution is shown on Page 10 in the list at lower right.



DECK 14: DEFLECTOR / SANITATION

STAR TREK - MANN-CLASS CRUISER

LAYOUT: DECK 15 **PAGE 22 of 25**

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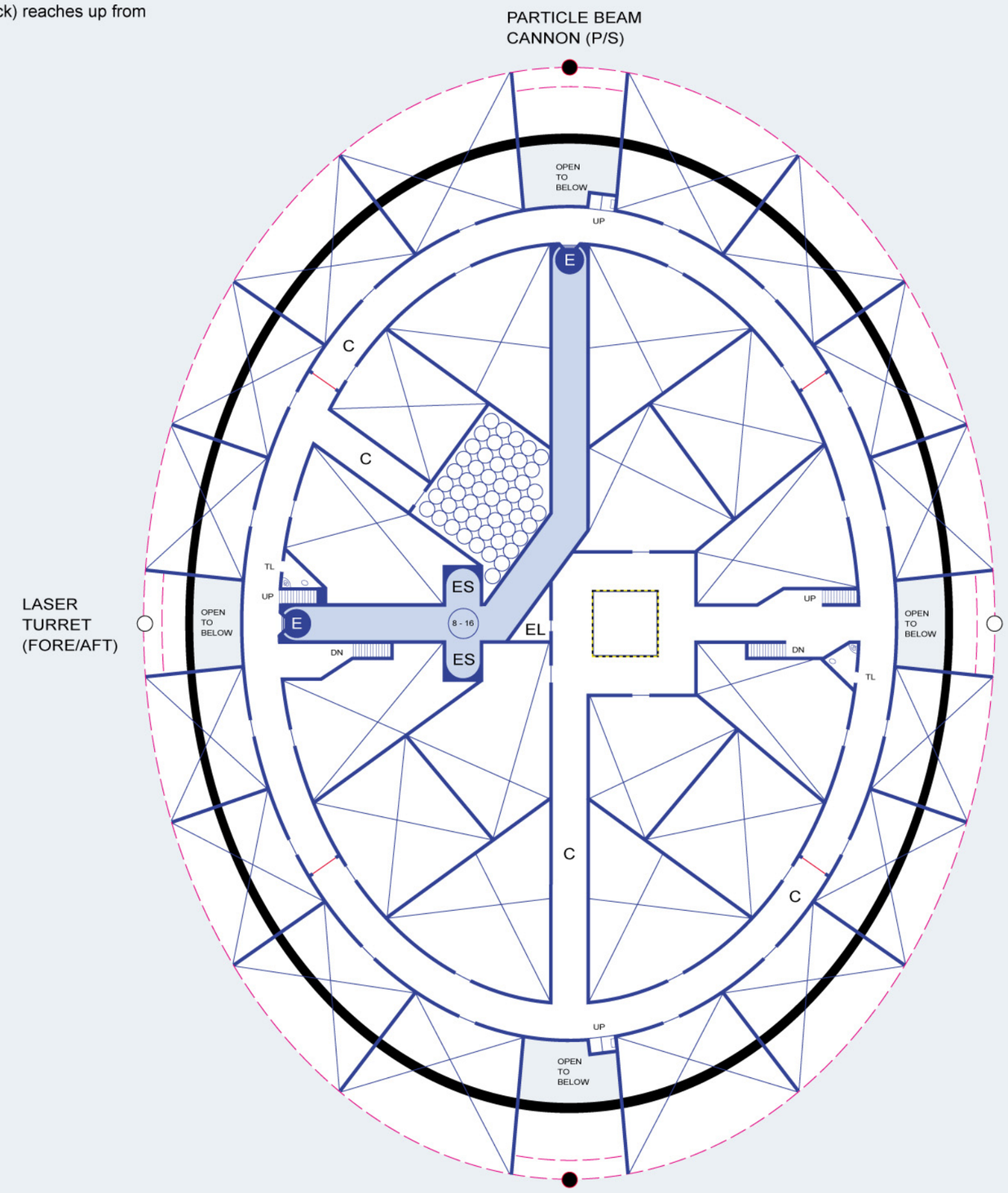
0 5 10 15 20
METERS

NOTES

DECK 15
The highbays of the lower Weapons Stations are located on this deck.

Cargo Holds fill the remainder of this deck.

The Cargo Lift (in the middle of the deck) reaches up from Deck 17 to Deck 15.



DECK 15: WEAPONS / CARGO

STAR TREK - MANN-CLASS CRUISER

LAYOUT: DECK 16 **PAGE 23 of 25**

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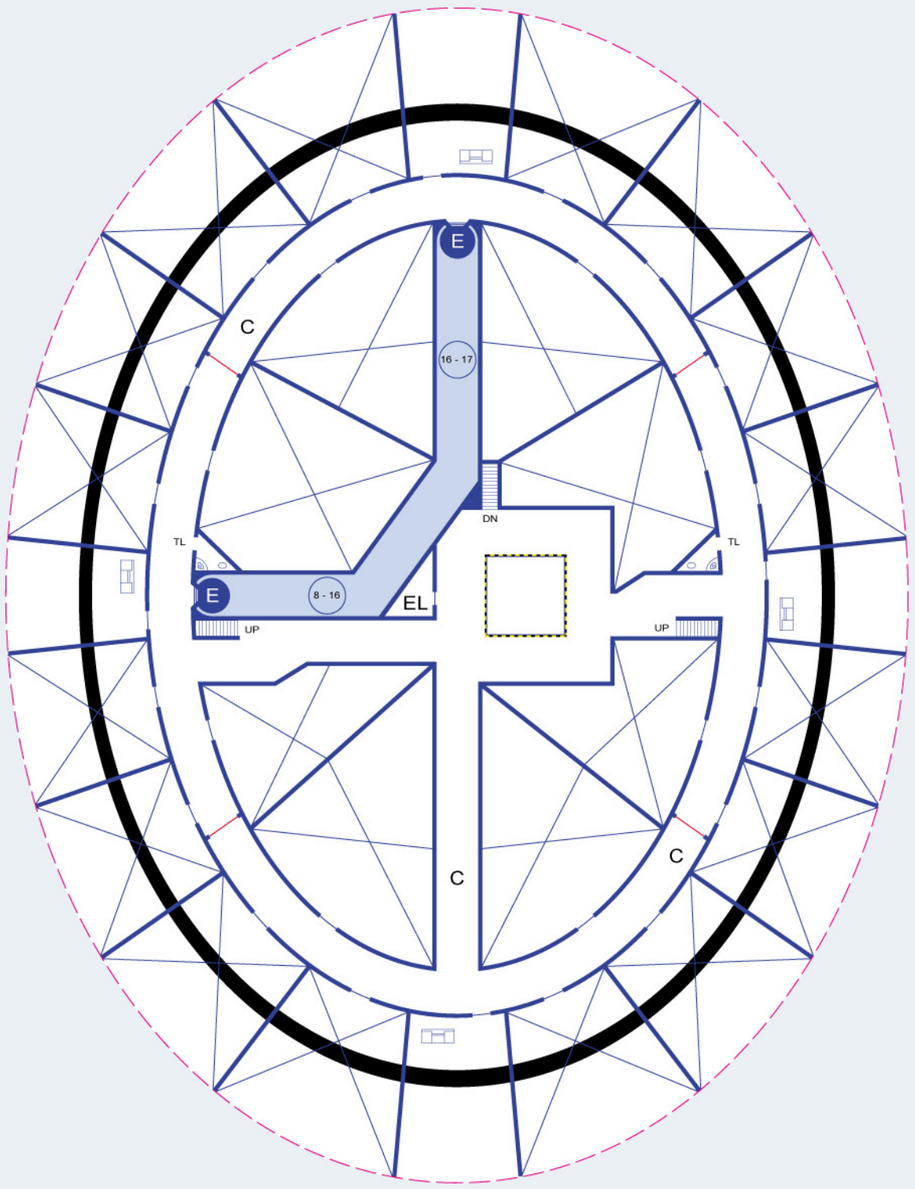
0 5 10 15 20
METERS

NOTES

DECK 16
The main level of the lower Weapons Stations (2 Laser Turrets and 2 Particle Bean Cannon Turrets) are located on this deck.

Cargo Holds fill the remainder of this deck.

The Cargo Lift (in the middle of the deck) reaches up from Deck 17 to Deck 15.



DECK 16: WEAPONS / CARGO

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0 5 10 15 20
METERS

NOTES

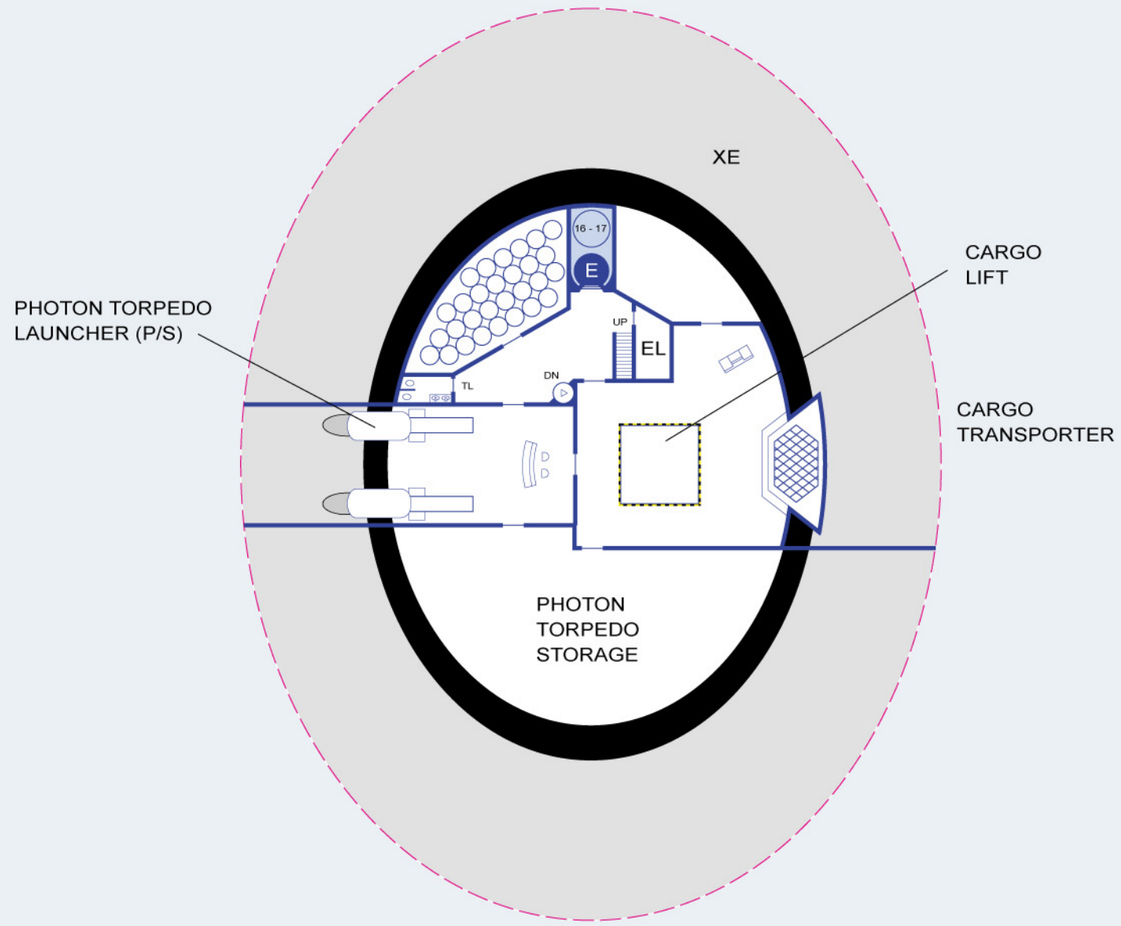
DECK 17

The Photon Torpedo Launchers are at the front of this deck. Torpedo Storage is on the port side.

The Cargo Transporter is located at the rear of this deck.

Ahead of the Cargo Transporter is the Cargo Lift. It reaches up from Deck 17 to Deck 15.

The curve of the hull is very shallow, and is shown here in grey.



DECK 17: PHOTON TORPEDO LAUNCHER / CARGO TRANSPORTER

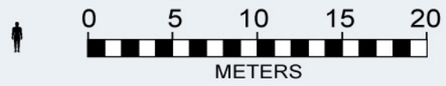
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LAYOUT: DECK 18 **PAGE 25 of 25**

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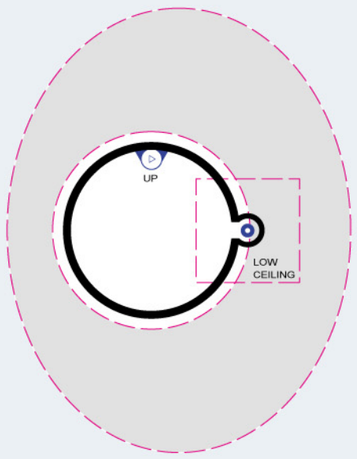


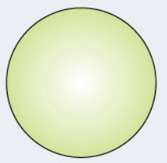
NOTES

DECK 23
Sensors are located on this deck.

The exterior hull of the ship is a very sensitive skin linked to the sensors. This innovation was developed in 2151.

The curve of most of the hull is very shallow, and is shown here in grey.





LOWER SENSOR DOME

DECK 18: LOWER SENSORS

GENERAL NOTES

In my previous blueprint sets I discuss stairs, ladders, and external markings for highlighting certain features . . . all relating back to what we see in the original STAR TREK episodes and what we see on the studio model of the U.S.S. ENTERPRISE.

None of that applies here, but we can still try to extrapolate backwards and imagine what the starships from the early days of the Federation must have looked like.

Notes relevant to each deck appear on the following pages.

I hope these pages provide you with some pleasure, information, and ideas for contemplation / consideration.

If I missed something, please let me know.

Jim Botaitis
jbot@rogers.com
October 2025