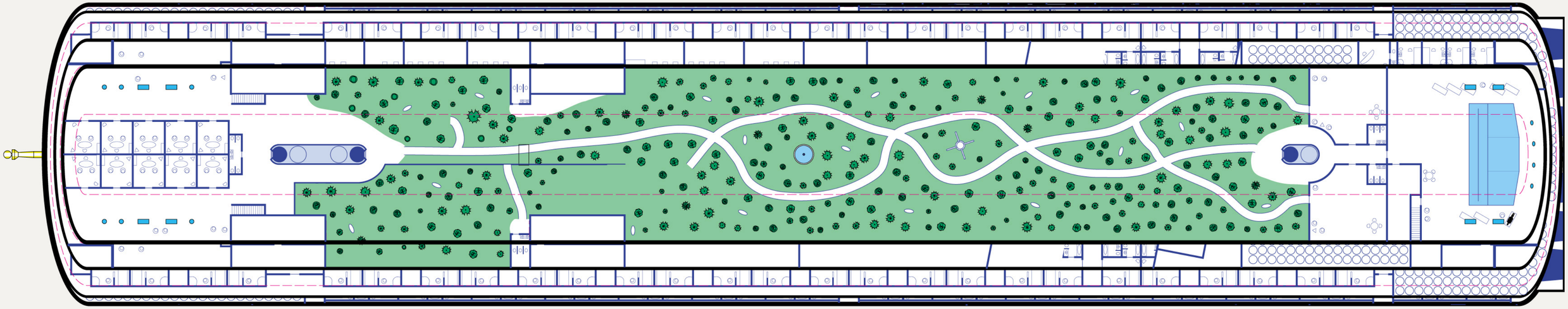
TRANSPORT CONTAINER

from STAR TREK (TOS)

PROFILE, CUTAWAY, AND DECK PLANS



DRAWN BY: Jim Botaitis

STAR TREK - TRANSPORT CONTAINERS

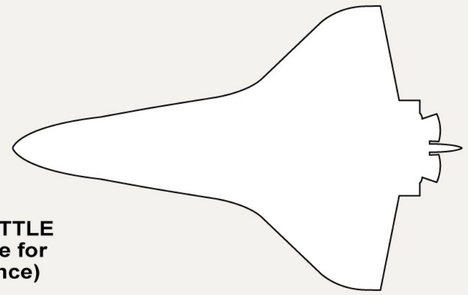
LAYOUT: Mk. IV EXTERIOR **PAGE 1 of 16**

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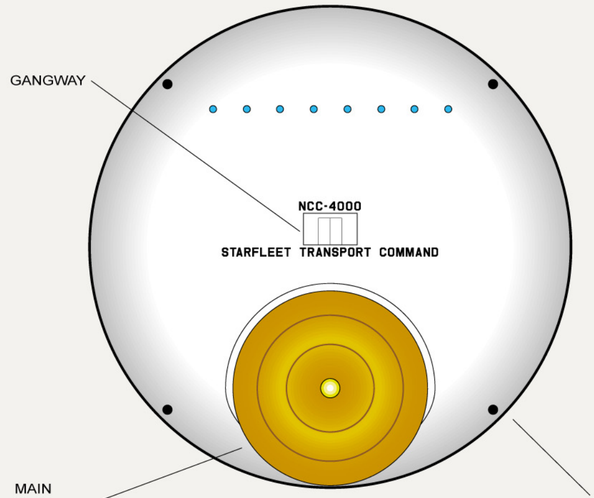
DRAWN BY: Jim Botaitis

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

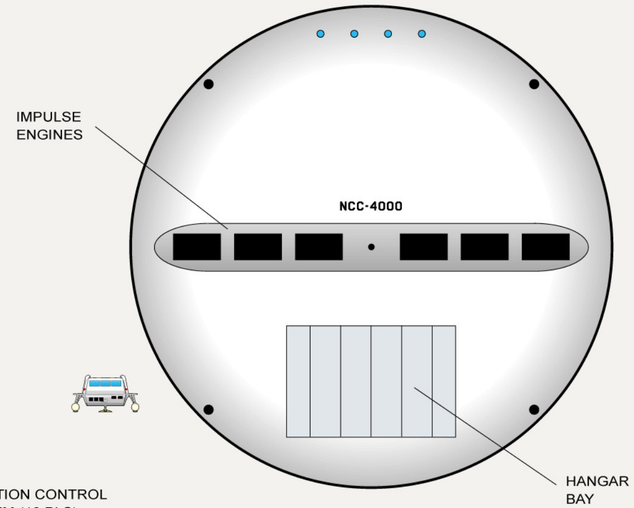




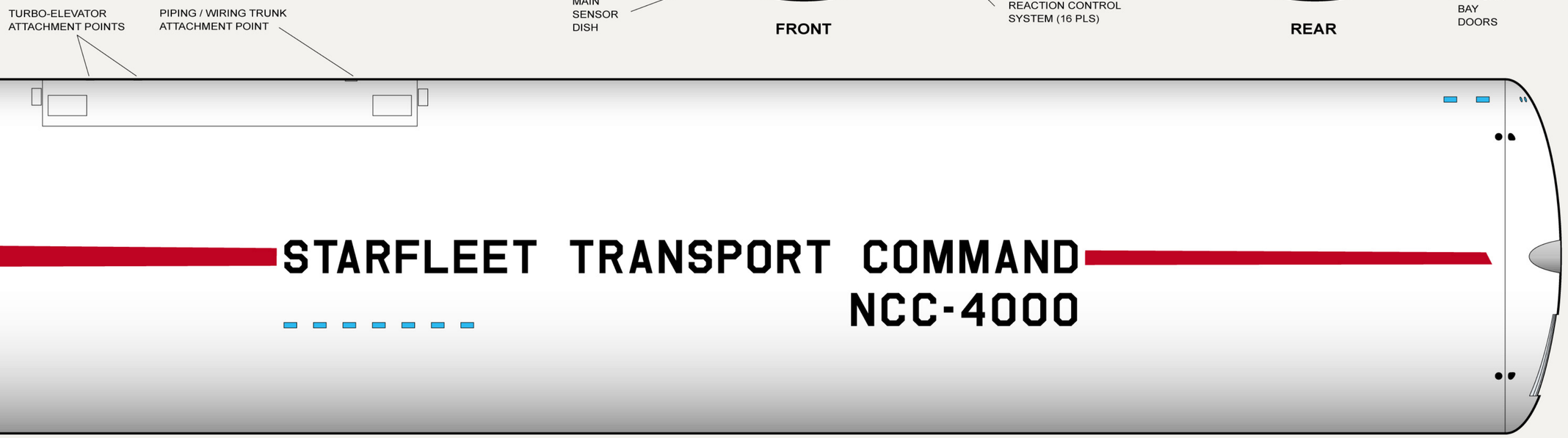
SPACE SHUTTLE (Shown here for size reference)



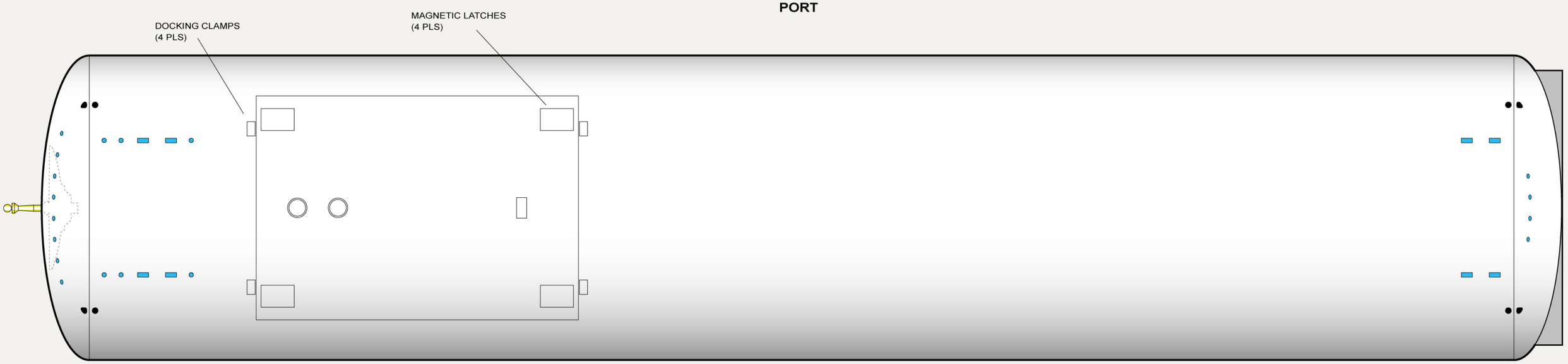
FRONT



REAR



PORT



TOP

STAR TREK - TRANSPORT CONTAINERS

LAYOUT: EXTERIOR (Mk. VI) **PAGE 2 of 16**

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DRAWN BY: Jim Botaitis

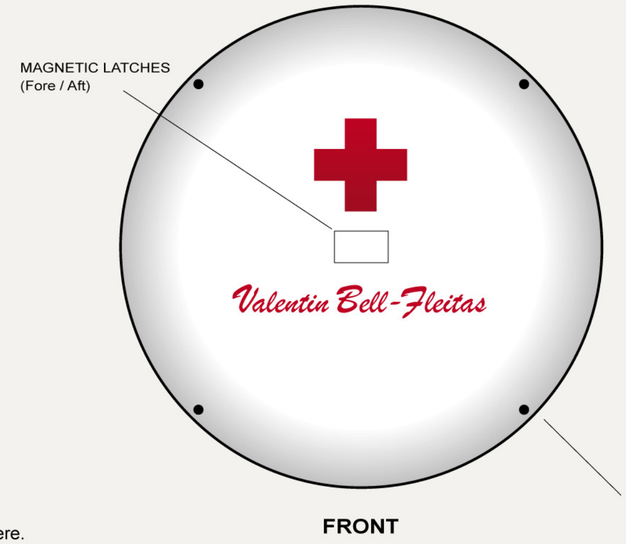
If printed 17 inches tall (from black-outlined edge to black-outlined edge) the scale of these drawings is 1/350.

0 5 10 15 20
METERS

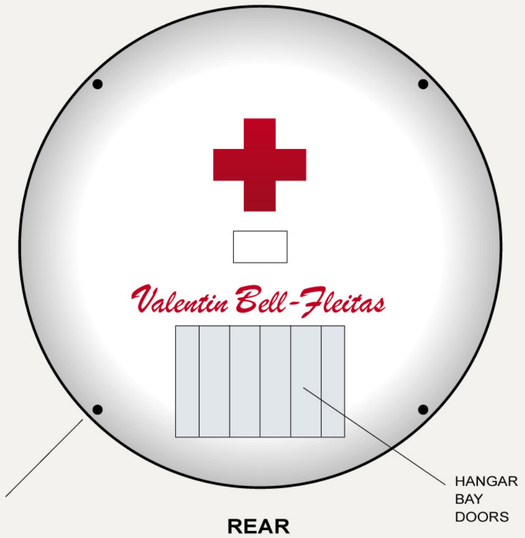
SPECIFICATIONS

Mk. I	-	LIQUIDS	DIAMETER	-	40 m
Mk. II	-	DRY BULK	LENGTH	-	200 m
Mk. III	-	REFRIGERATED			
Mk. IV	-	PERSONNEL *	VOLUME	-	250,000 m^3 (approximately)
Mk. V	-	PRODUCTS			
Mk. VI	-	HOSPITAL SHIP			
Mk. VII	-	TROOP TRANSPORT			
Mk. VIII	-	COLONIZATION SHIP	* OFFICERS	-	15
Mk. IX	-	MINING FACILITY	CREW	-	150
Mk. X	-	REPAIR FACILITY	PASSENGERS	-	500
Mk. XI	-	MODULE CARRIER			

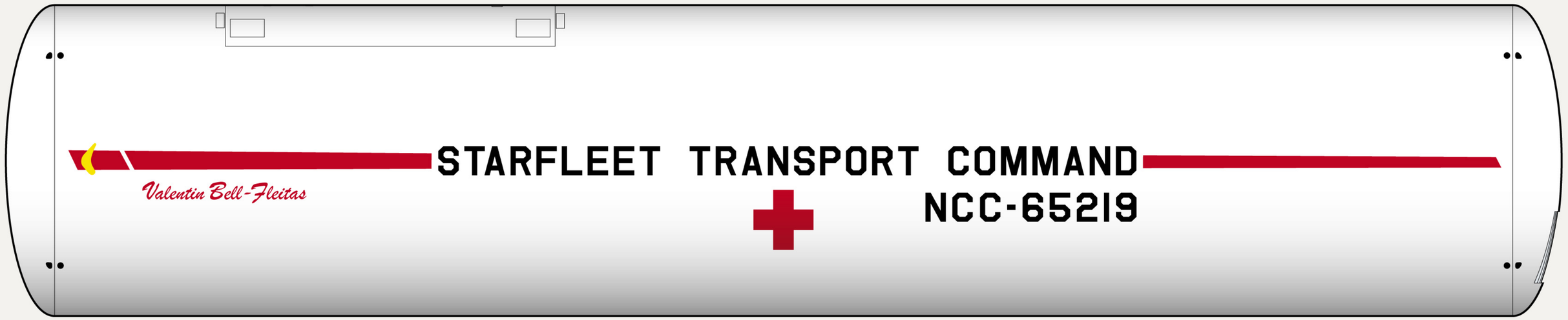
A Mk. VI hospital ship (used for colony relief, medical emergencies, and planetary evacuations) is shown here.



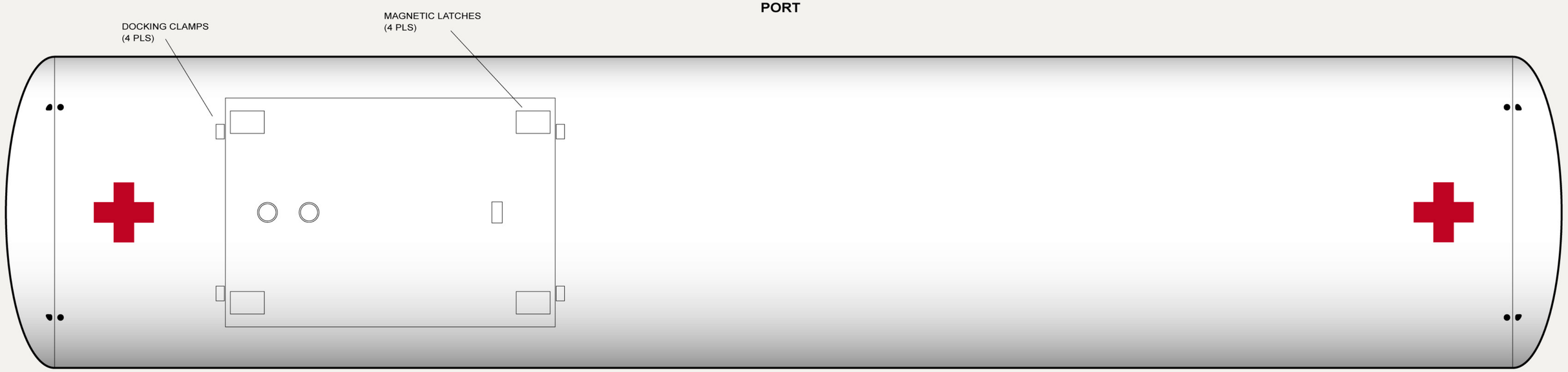
FRONT



REAR



PORT



TOP

STAR TREK - TRANSPORT CONTAINERS

LAYOUT: Mk. I and Mk. II INTERIOR **PAGE 3 of 16**

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DRAWN BY: Jim Botaitis

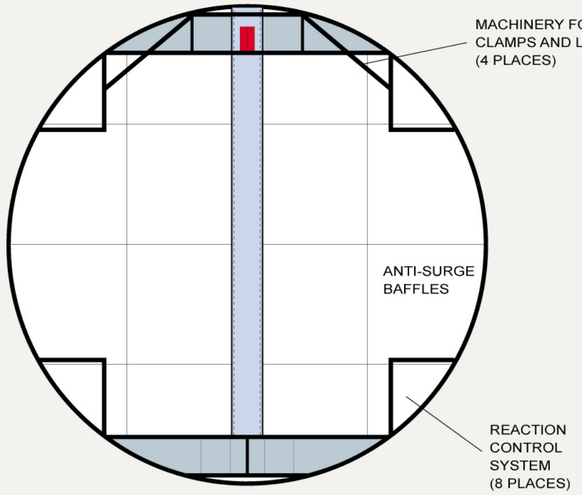
If printed 17 inches tall (from black-outlined edge to black-outlined edge) the scale of these drawings is 1/350.

0 5 10 15 20
METERS

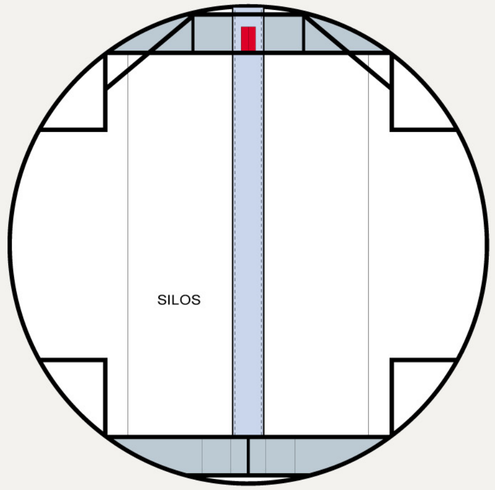
NOTES

The Mk. I is for transporting liquids. A single turbo-elevator shaft leads down from the monitoring station on the highest deck to the 4 (or 6) cargo transporters on the lowest deck.

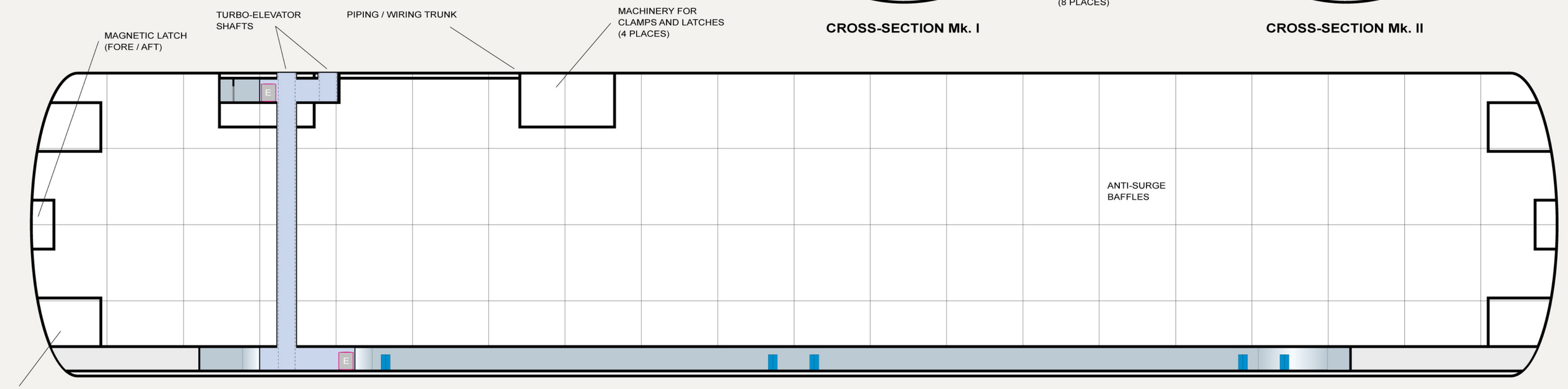
The Mk. II is for transporting solids. A single turbo-elevator shaft leads down from the monitoring station on the highest deck to the 4 (or 6) cargo transporters on the lowest deck.



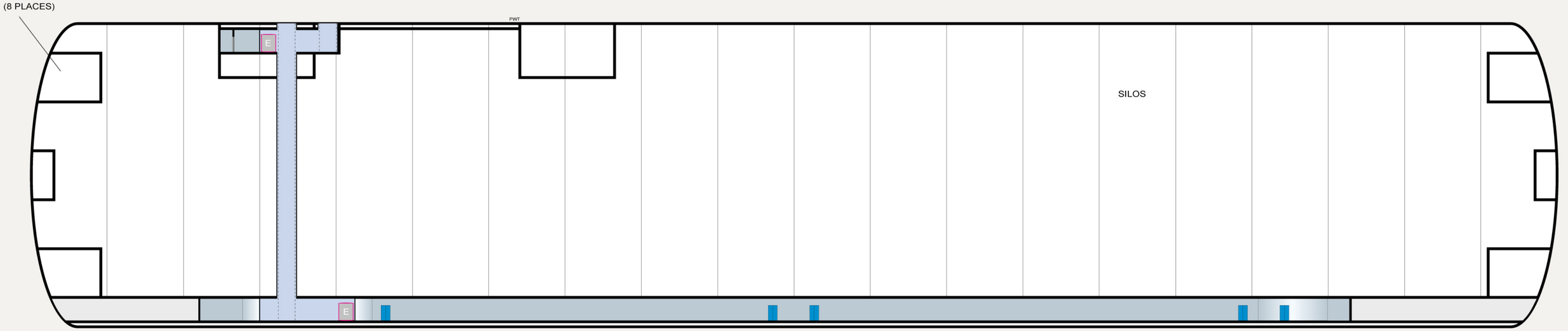
CROSS-SECTION Mk. I



CROSS-SECTION Mk. II



CUTAWAY Mk. I



CUTAWAY Mk. II

STAR TREK - TRANSPORT CONTAINERS

LAYOUT: Mk. III and Mk. V INTERIOR PAGE 4 of 16

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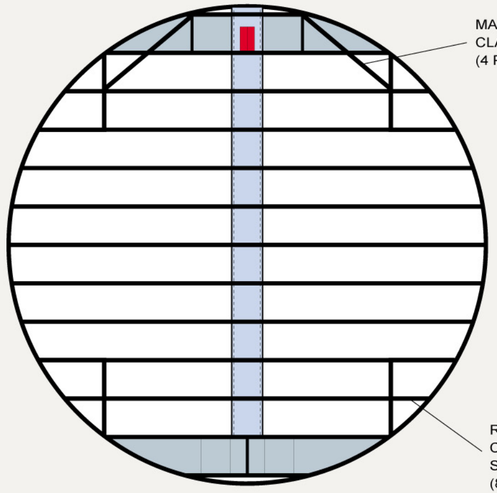
If printed 17 inches tall (from black-outlined edge to black-outlined edge) the scale of these drawings is 1/350.

0 5 10 15 20
METERS

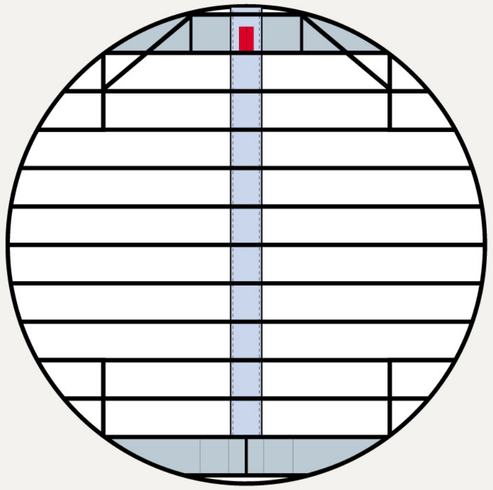
NOTES

The Mk. III is for transporting refrigerated goods. A single turbo-elevator shaft leads down from the monitoring station on the highest deck to the 4 (or 6) cargo transporters on the lowest deck. Stairs provide access to each level. Each level has partitions to allow for independent temperature control.

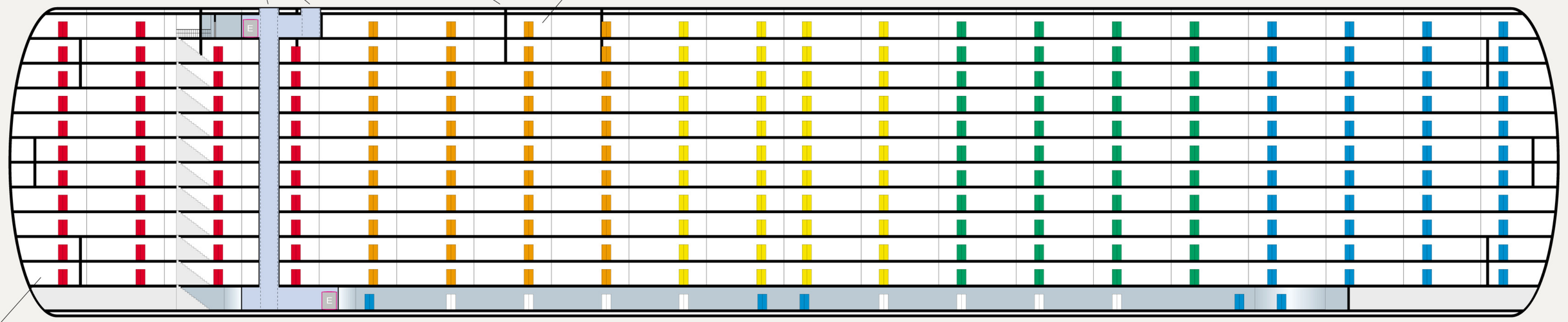
The Mk. V is for transporting general products. A single turbo-elevator shaft leads down from the monitoring station on the highest deck to the 4 (or 6) cargo transporters on the lowest deck. Stairs provide access to each level. Each level typically only has 2 access doors on each side.



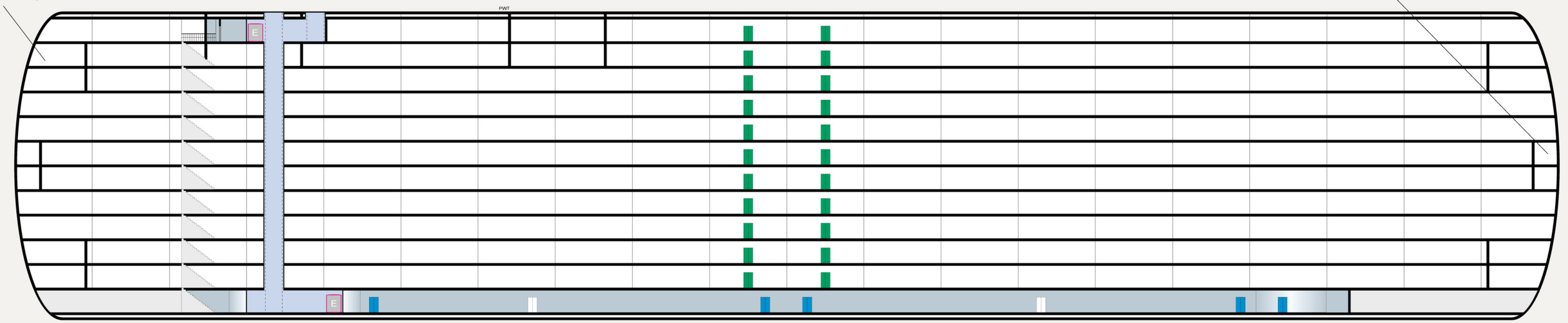
CROSS-SECTION Mk. III



CROSS-SECTION Mk. V



CUTAWAY Mk. III



CUTAWAY Mk. V

STAR TREK - TRANSPORT CONTAINERS

LAYOUT: Mk. X INTERIOR

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NOTES

The Mk. VI, VII, VIII, and IX containers are for transporting many people (and their equipment) to fulfill specific roles. They started as Mk. IV containers, but have been heavily modified for each role.

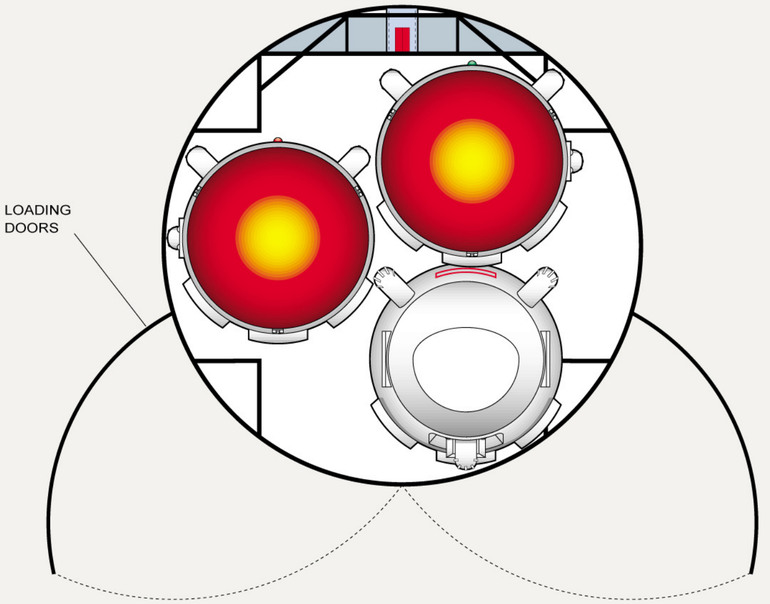
(The Mk. IV "Starliner" will be discussed separately on the subsequent pages.)

The Mk. X Cargo Container is for transporting starship components (or any large constructs). This type of container can hold three (3) starship warp engines, maximum (as shown at right and below).
It can also hold one (1) Heavy Cruiser secondary hull. It can even hold one (1) Dreadnought secondary hull. To do all these things, the interior has been almost completely stripped, and loading doors run almost the full length along the underside.

Transport containers are difficult to summarize on a single page. Or even in an entire blueprint set. There are simply too many variations. The length and diameter is standardized. Everything else can be reconfigured to meet the client's needs.

All Cargo Containers have equipment for clamps and latches, two turbo-elevator attachment points, and a piping / wiring trunk attachment point ... all of which are compatible with the PTOLEMY-Class docking collar.
At the minimum, there is also a monitoring station on the highest deck.
All Containers also have a Reaction Control System.

Most containers have Cargo Transporters on the lowest deck. Most also have Magnetic Latches installed at the front and rear.

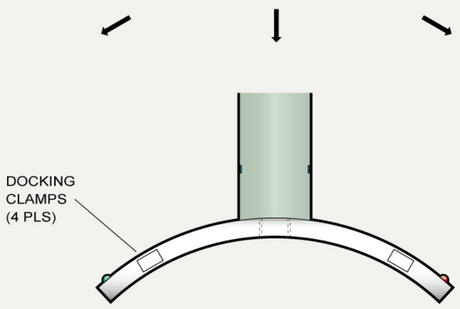


CROSS-SECTION

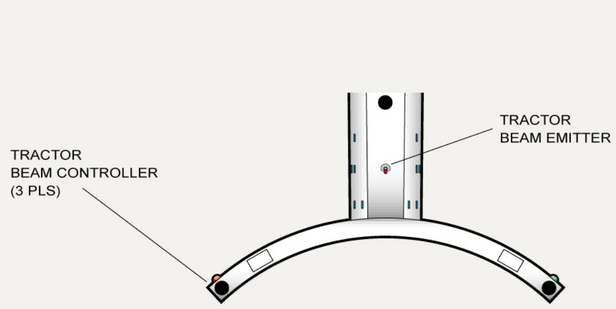


(Underside, Looking Up)

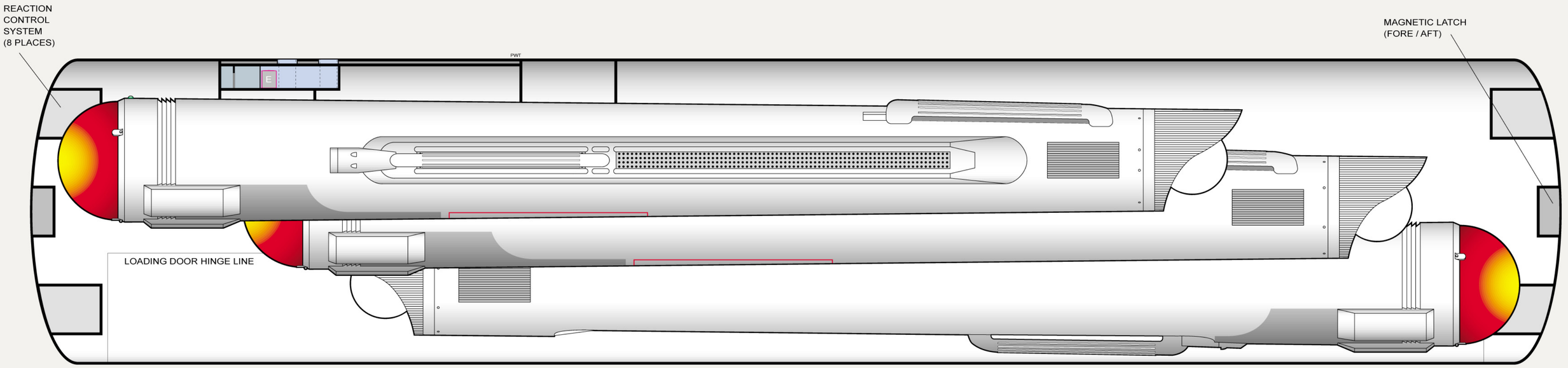
**PTOLEMY TRANSPORT / TUG
DOCKING COLLAR**



(Front, Looking Aft)



(Rear, Looking Forward)



CUTAWAY

STAR TREK - TRANSPORT CONTAINERS

LAYOUT: Mk. XI EXTERIOR **PAGE 6 of 16**

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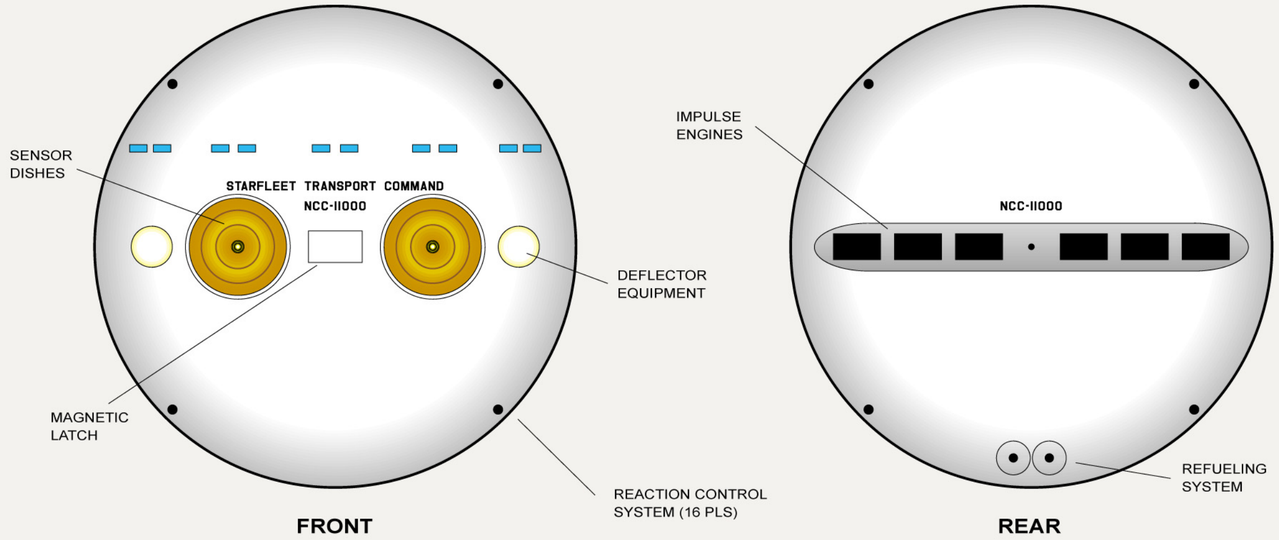


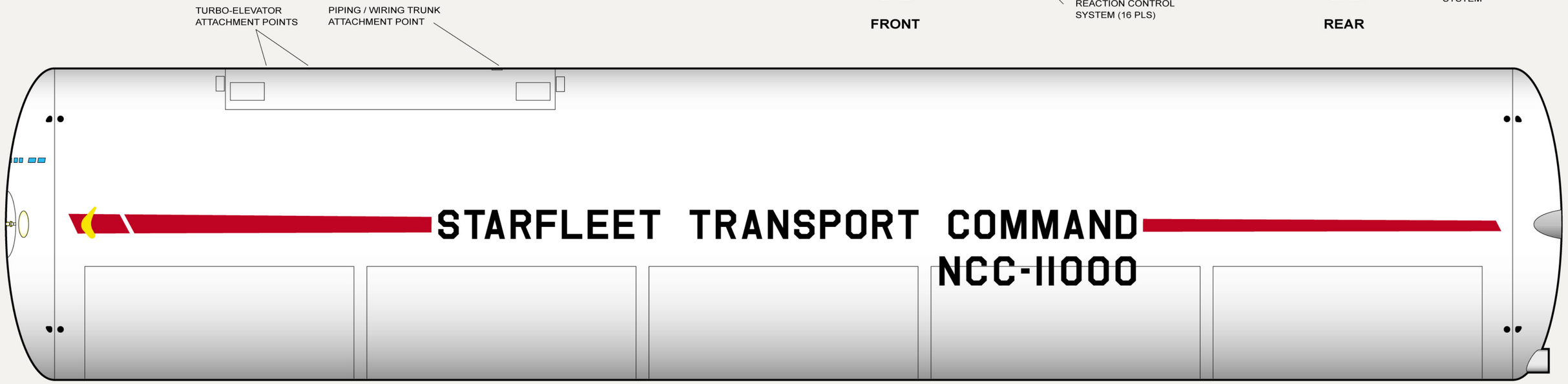
NOTES

The Mk. XI Cargo Container is subdivided into five (5) compartments. The interior is mostly empty, but with a framework to accommodate standardized Cargo Modules in each compartment. Loading doors on the underside swing open for access. Any of the modules can also be replaced by a triple Hangar Bay.

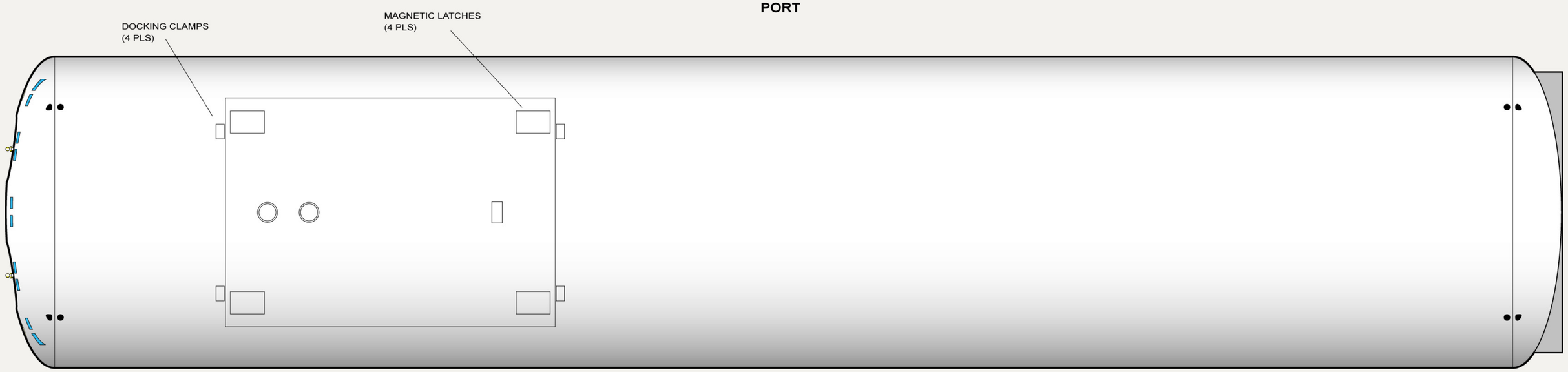
All Cargo Containers have equipment for clamps and latches, two turbo-elevator attachment points, and a piping / wiring trunk attachment point ... all of which are compatible with the PTOLEMY-Class docking collar. All Containers also have a Reaction Control System. Most also have Magnetic Latches installed at the front and rear, but on this Mark the rear Magnetic Latch is replaced by the Impulse Engine.

The top 3 decks contain crew quarters, air, food, water, etc. The remaining decks at the front are for the maintenance of the Sensor Dishes and Deflector Equipment. The decks at the rear are for Engineering, Fuel Tanks, etc.





PORT



TOP

STAR TREK - TRANSPORT CONTAINERS

LAYOUT: Mk. XI INTERIOR PAGE 7 of 16

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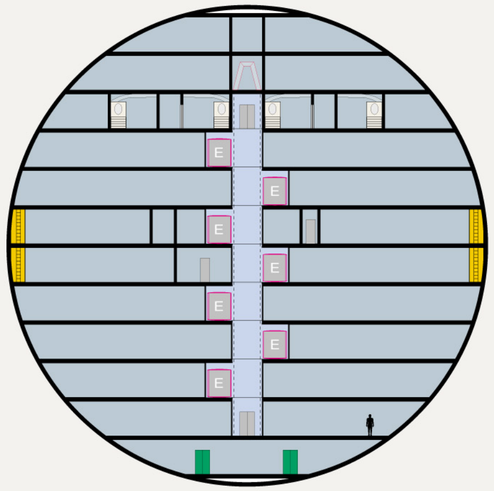
DRAWN BY: Jim Botaitis

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

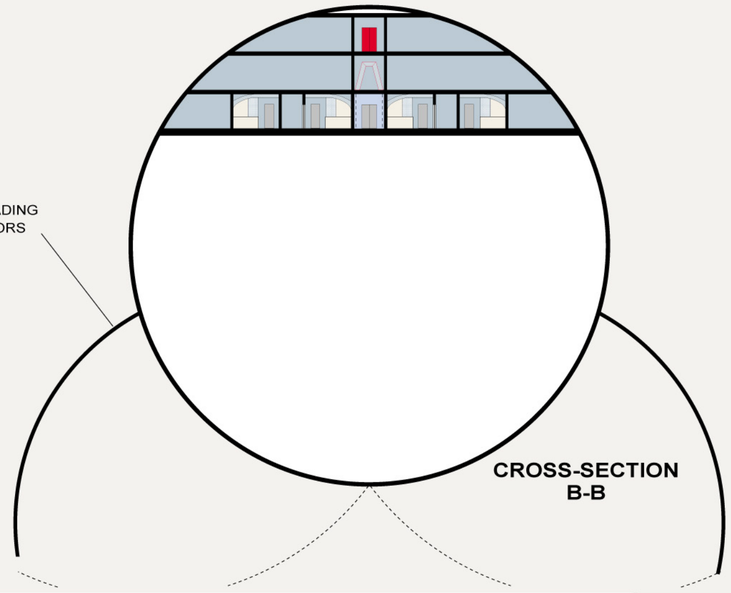
0 5 10 15 20
METERS

NOTES

The view at the bottom shows a triple Hangar Bay in the rearmost module of the Mk. XI Cargo Container.

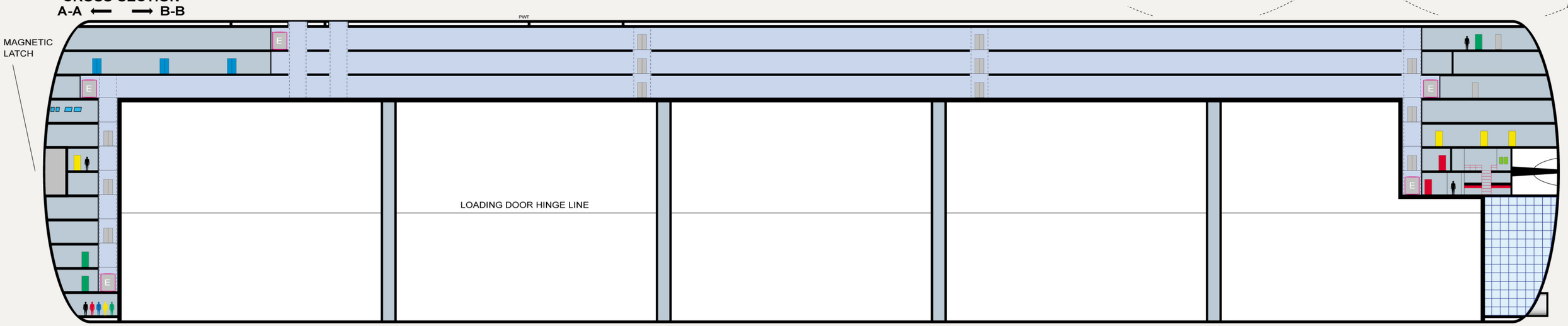


CROSS-SECTION
A-A



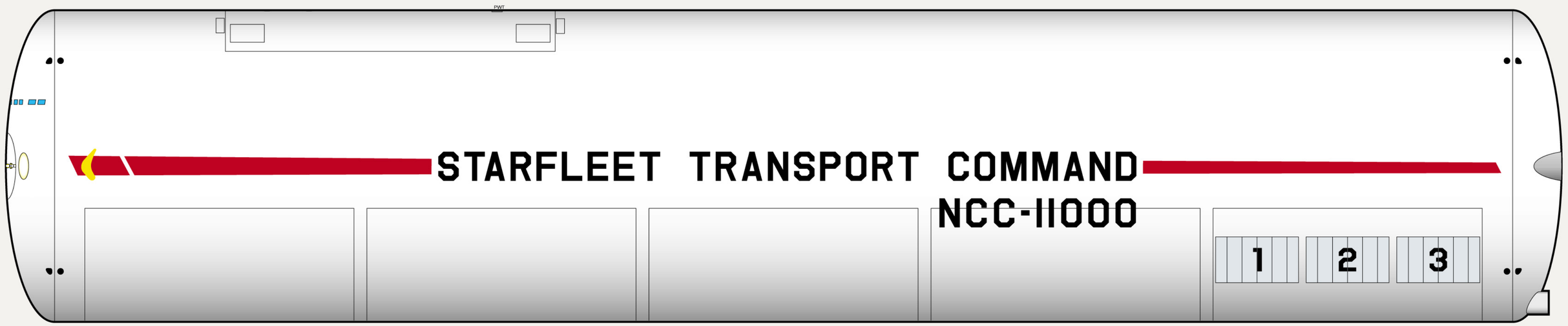
CROSS-SECTION
B-B

CROSS-SECTION
A-A ⟵ ⟶ B-B



A-A ⟵ ⟶ B-B

CUTAWAY



PORT

STAR TREK - TRANSPORT CONTAINERS

LAYOUT: Mk. IV INTERIOR **PAGE 8 of 16**

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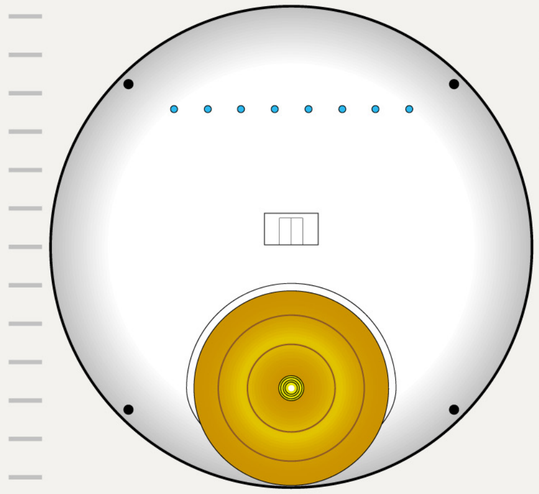
NOTES

Only the "Starliners" (Mk. IV containers) are outfitted with a Hangar Bay, a Main Sensor Dish, and sometimes windows.
The front magnetic latch was deleted and replaced with the main gangway.
The rear magnetic latch was deleted and replaced with the Impulse Engines.

The "Starliners" can be released in interstellar space or they can be released in a planetary system but without warp drive they are not able to travel from the one to the other. These ships are capable of independent operation, but only for a few months at a time.

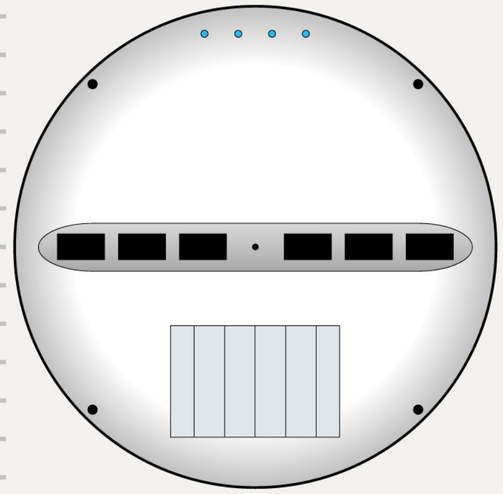
In an emergency, they can operate as a lifeboat for a maximum of 5 years. This is why "Starliners" do not have lifeboats; the best chance for survival is to stay with the ship.

They grey lines represent a consistent spacing of ceilings 9 feet (2.75 meters) high and decks 1.25 feet (0.38 meters) thick. The external hull is also 1.25 feet (0.38 meters) thick. The Piping / Wiring Trunk along the top of the hull is about 2 feet (0.6 meters) thick and the machinery-crawlspace along the bottom of the hull is also about 2 feet (0.6 meters) thick.



FRONT

1 2 3 4 5 6 7 8 9 10 11 12



REAR

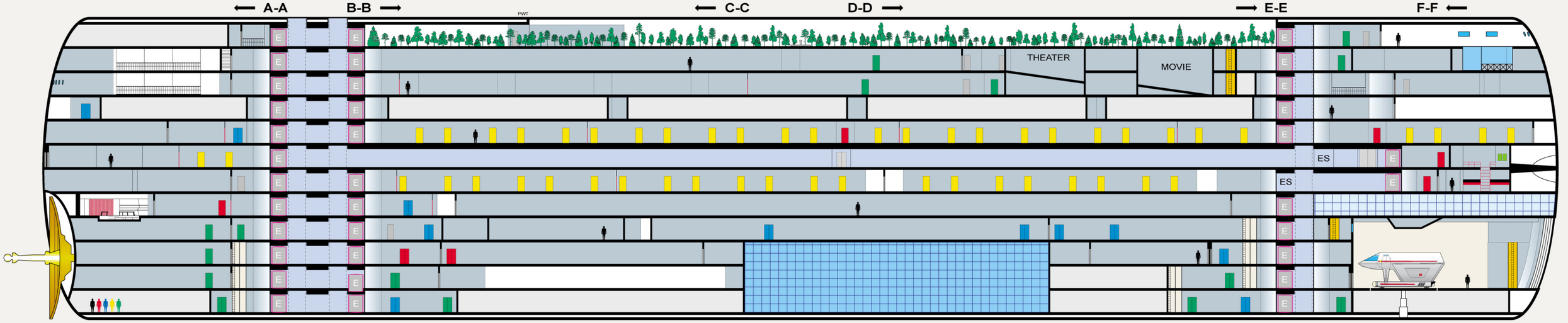


PORT

CROSS-SECTION A-A B-B

CROSS-SECTION C-C D-D

CROSS-SECTION E-E F-F



A-A B-B C-C D-D E-E F-F

CUTAWAY

STAR TREK - TRANSPORT CONTAINERS

LAYOUT: Mk. IV DECKS 1 and 2 PAGE 9 of 16

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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.

0 5 10 15 20
METERS

NOTES

DECK 1
Administrative Offices are for resolving passenger issues are at the front.

Equipment for connecting to the PTOLEMY-Class ship's docking collar is located in four rooms. This equipment continues downwards to Deck 2.

There is a Piping / Wiring Trunk connection point about one-third of the distance from the front. From that point to the rear turbo-elevator, the ceiling of the park continues to the top of the hull of the container. The trees in the Park takes advantage of this high ceiling.

Refreshment centers separate the Park from the Pool. The Pool is located at the extreme aft.

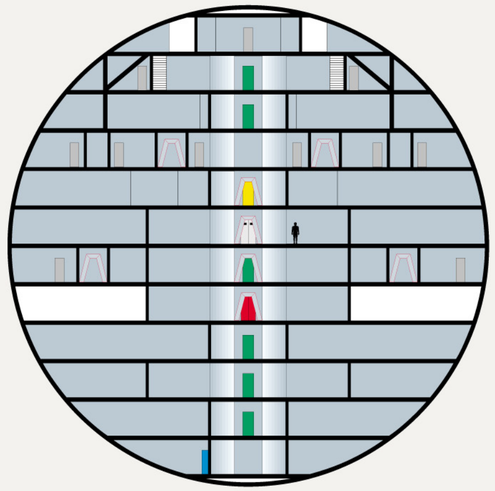
DECK 2
The upper level of the Main Lounge is located at the front of this deck. The floor in the center is open to allow patrons to see the dance floor below.

Aft of the Lounge (and to port) is the park. To starboard is the shopping district.

Further aft are Virtual Reality / Holodecks. The technology is new and not always available These were originally called "VisiCon" by Franz Joseph.

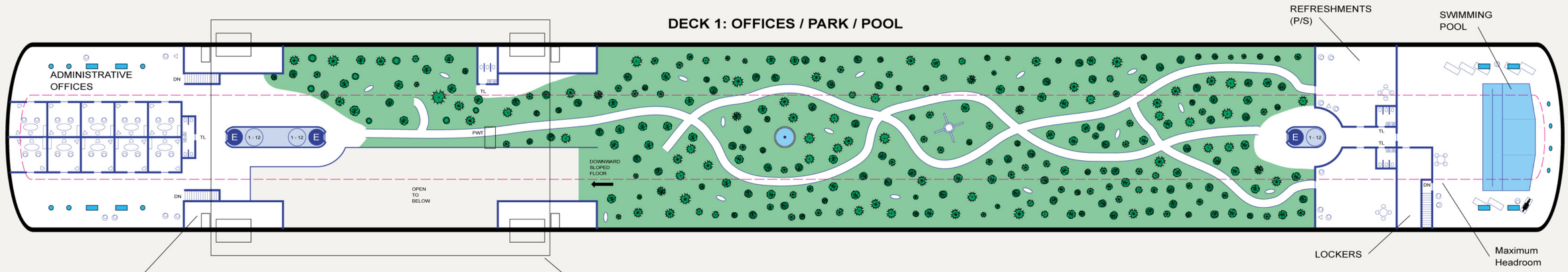
The Coffee Bar and Lobby lead to the Live Theater/Stage to port and the Movie Screen to starboard. Each can hold about 200 people. The floor is sloped for better visibility.

At the extreme aft are Batteries, the Brig, and the bottom of the Pool.

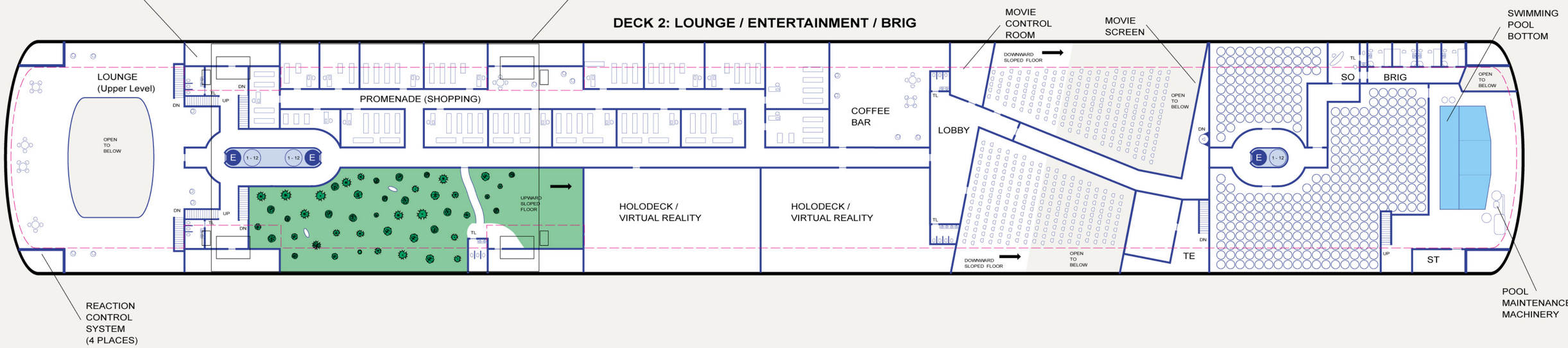


CROSS-SECTION A-A

DECK 1: OFFICES / PARK / POOL



DECK 2: LOUNGE / ENTERTAINMENT / BRIG



STAR TREK - TRANSPORT CONTAINERS

LAYOUT: Mk. IV DECKS 3 and 4 **PAGE 10 of 16**

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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.

0 5 10 15 20
METERS

NOTES

DECK 3
The Main Lounge (with a raised dance floor) is at the front.

Casinos are located aft of the Lounge.

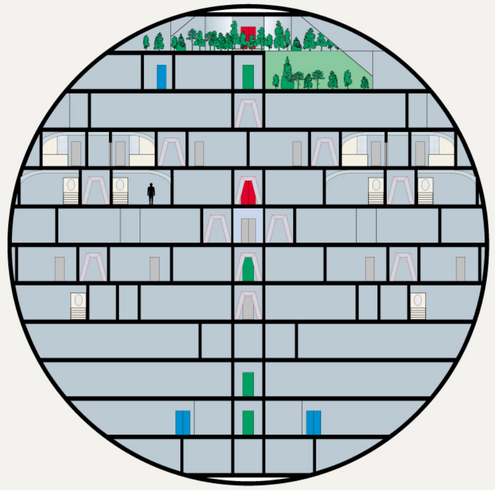
Space has been set aside immediately aft of the Casinos for sports, events and games. The space below the sloped floor of the Movie Theater is used as storage for the sports, events and games.

The space below the sloped floor of the Live Theater is used by the actors for costume changes, rehearsals, etc. and by stagehands for set construction, etc.

At the extreme rear of the deck is the Gym, a Crafts area, and a Library.

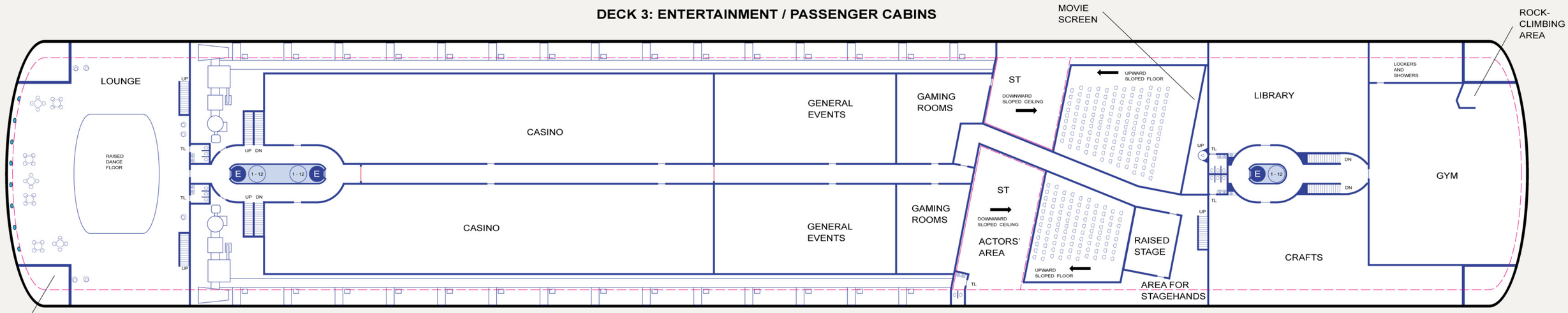
DECK 4
There is Auxiliary Machinery at the front and along each side. Most of the rest of this deck is devoted to Passenger Cabins.

Batteries are located at the rear.

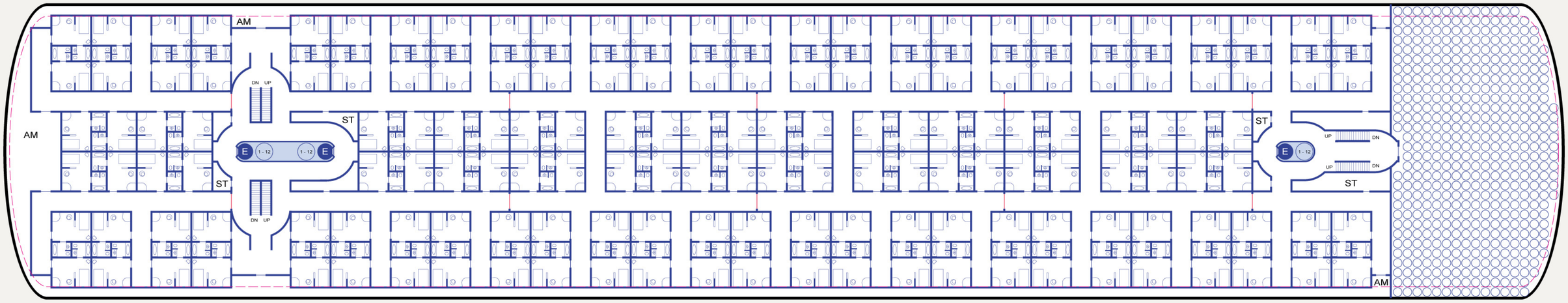


CROSS-SECTION B-B

DECK 3: ENTERTAINMENT / PASSENGER CABINS



DECK 4: PASSENGER CABINS



STAR TREK - TRANSPORT CONTAINERS

LAYOUT: Mk. IV DECKS 5 and 6 **PAGE 11 of 16**

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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.

0 5 10 15 20
METERS

NOTES

DECK 5
Except for the Chapel at the front and the Batteries around the Chapel, this entire deck is also devoted to Passenger Cabins.

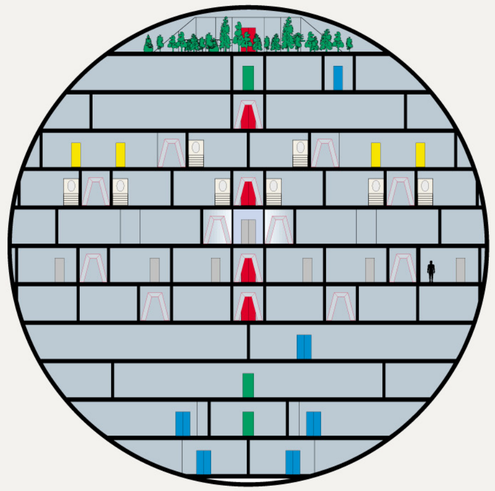
DECK 6
The Main Gangway is at the very front center of this deck.

On either side of the Gangway are play areas for children. Passenger Cabins extend back about halfway. Most of these cabins are for families, hence the play area at the front.

Aft of the passenger cabins to port is the Laundry and Manufacturing Center. Various labs, doctors' offices, a waiting room, and Sickbay are to starboard.

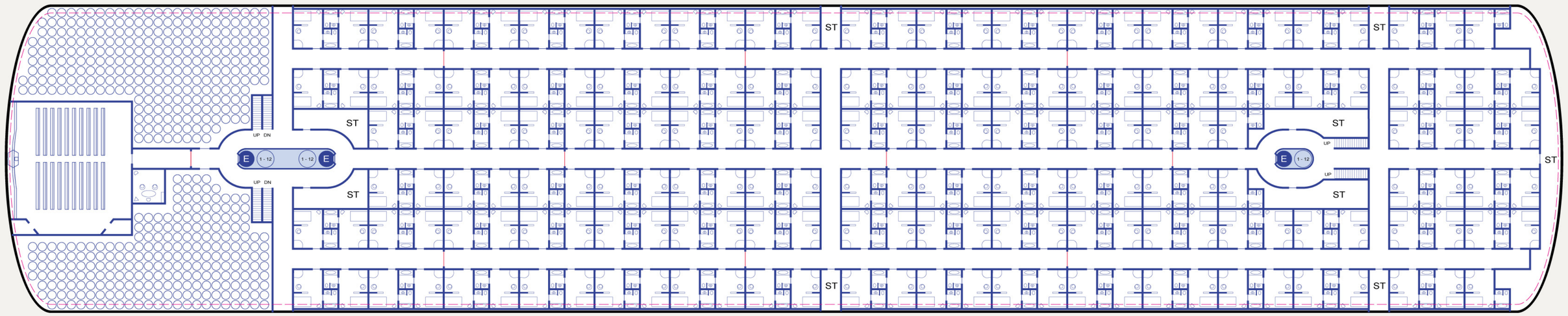
Further aft are the Engineering Machine Shops to port. the Turbo-Elevator Repair Center and Environmental Engineering is to starboard.

At the extreme aft is Main Impulse Engineering. Engineering Computers are on each side.

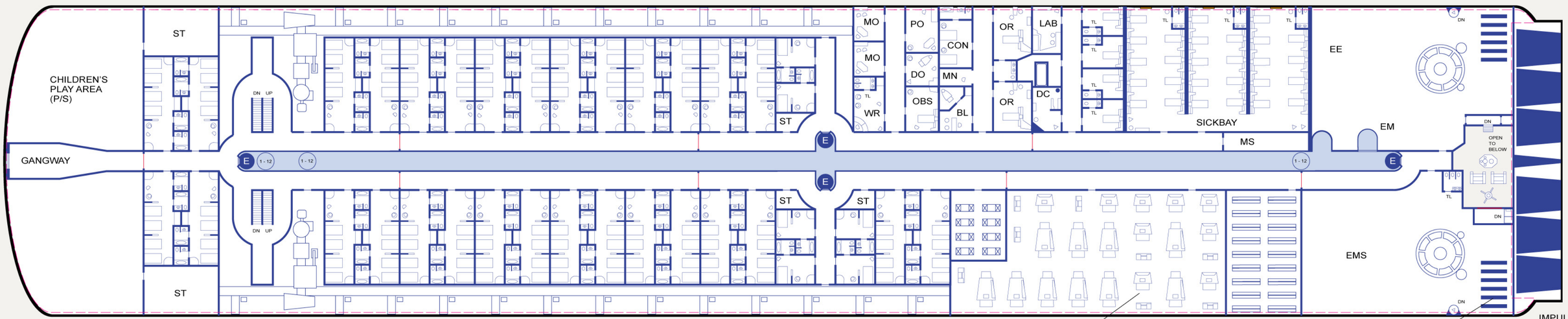


CROSS-SECTION C-C

DECK 5: CHAPEL / PASSENGER CABINS



DECK 6: GANGWAY / PASSENGER CABINS / SICKBAY / MANUFACTURING / ENGINEERING



STAR TREK - TRANSPORT CONTAINERS

LAYOUT: Mk. IV DECKS 7 and 8 **PAGE 12 of 16**

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0 5 10 15 20
METERS

NOTES

DECK 7
Space Energy Field Sensors start on the deck and continue down for several levels.

Passenger cabins fill about half of this deck.

Aft of the Passenger Cabins are some Crew Quarters.

Aft of the Crew Quarters is the top of the Impulse Engine Fuel Tank.

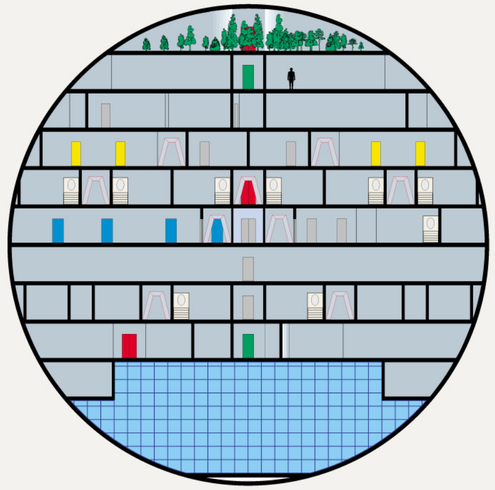
At the extreme aft is Main Impulse Engineering.

DECK 8
The Bridge is at the front of this deck. Surrounding the Bridge are Batteries.

Most of the Crew Quarters are located on this deck. The Senior Officers are near the Bridge, and they have offices adjacent to their quarters.

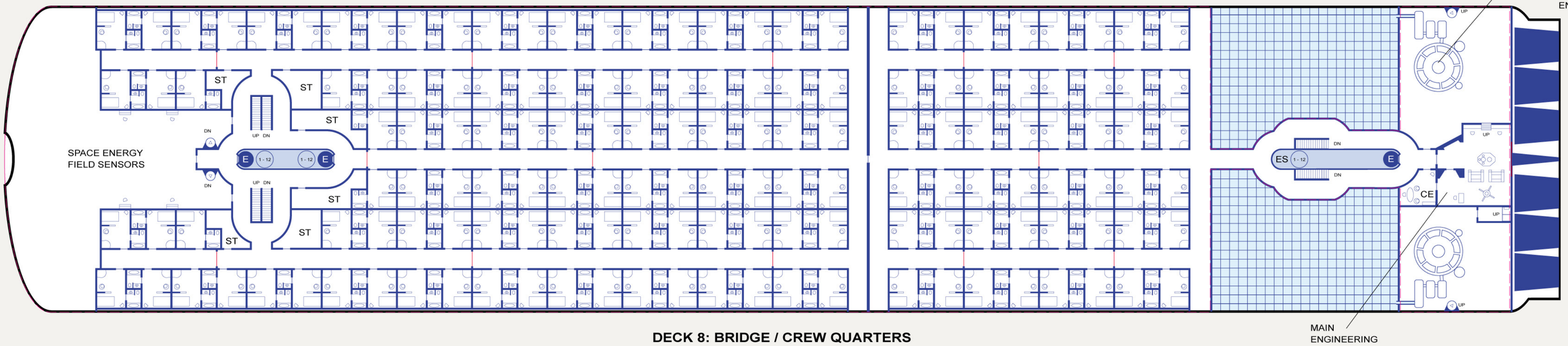
There are two Briefing Rooms aft of the Officers' quarters.

Aft of the Crew quarters is the Impulse Engine Fuel Tank.

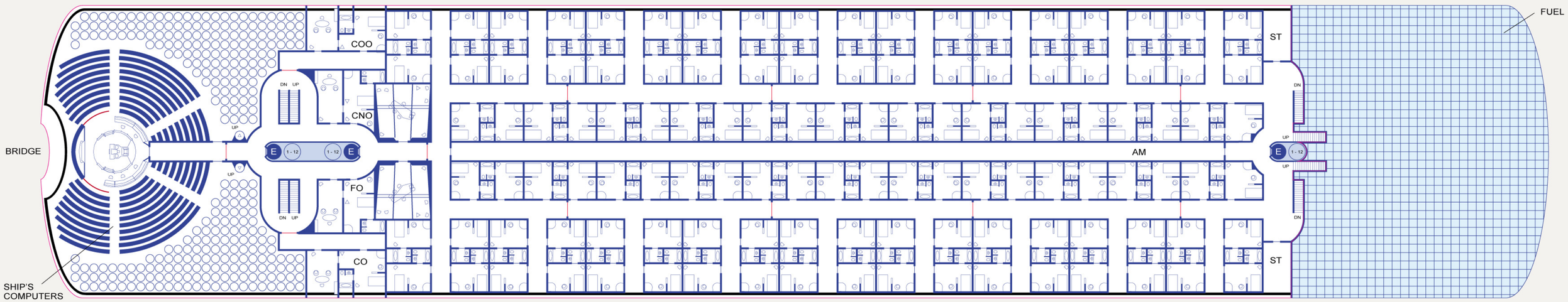


CROSS-SECTION D-D

DECK 7: SENSORS / PASSENGER CABINS / CREW QUARTERS / ENGINEERING



DECK 8: BRIDGE / CREW QUARTERS



STAR TREK - TRANSPORT CONTAINERS

LAYOUT: Mk. IV DECKS 9 and 10 **PAGE 13 of 16**

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0 5 10 15 20
METERS

NOTES

DECK 9
Sensors and Deflector Equipment are located at the front, immediately behind the Sensor Dish.

Batteries are located aft of the Sensors.

The two main Dining Rooms for passengers are located aft of the Batteries.

There is some Food Storage on the port side and the Food Preparation area is on the starboard side. The two turbo-elevators provide access to the food storage areas and the Hydroponics Farm on the lower levels.

The Mess Hall is for the crew.

There are two Observation Galleries providing a view of the Hangar Bay. Between the two Observation Galleries is Hangar Bay Flight Control.

The Tractor Beam for the Hangar Bay is at the extreme aft.

DECK 10
Sensors and Deflector Equipment are located at the front, immediately behind the Sensor Dish.

Cargo Holds are located aft of the Sensors.

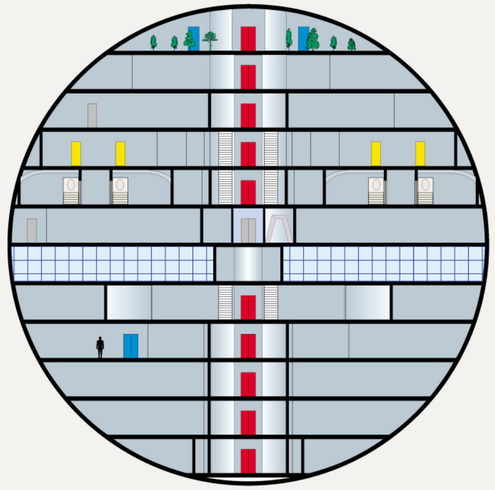
More Food Storage is located aft of the Cargo Holds.

The top of the Fresh Water Tank is aft of the Food Storage. Water Pumps and Water Pressure Systems are ahead of and behind the Fresh Water Tank.

Food requiring refrigeration is stored aft of the Fresh Water Tank.

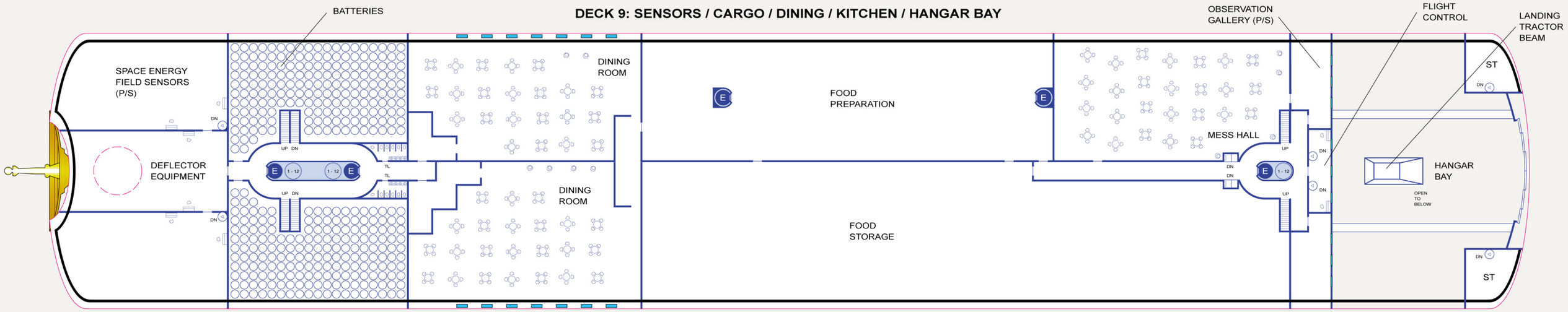
The Air Conditioning Machinery and Atmosphere Control system is aft of the Cold Food Storage. Ventilation ducts reach forward along both sides of the Water Tank and the Food Storage.

The Hangar Bay continues from above at the extreme aft.

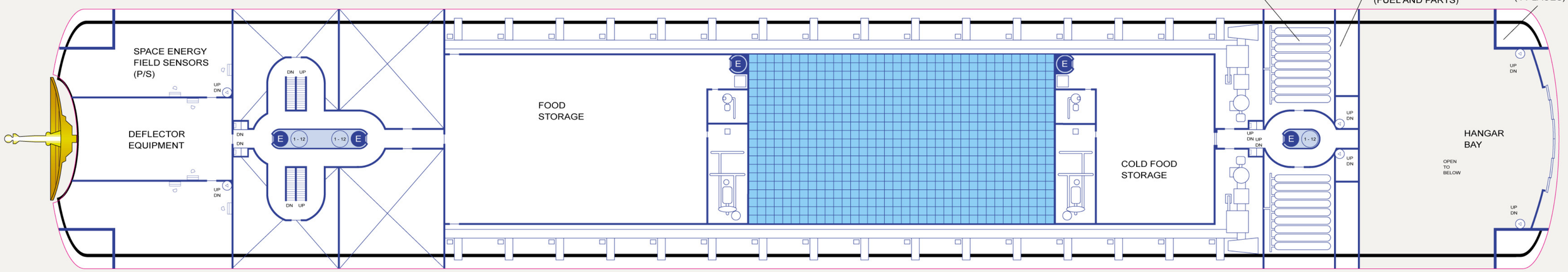


CROSS-SECTION E-E

DECK 9: SENSORS / CARGO / DINING / KITCHEN / HANGAR BAY



DECK 10: DEFLECTOR / FOOD STORAGE / AIR CONDITIONING / HANGAR BAY



STAR TREK - TRANSPORT CONTAINERS

LAYOUT: Mk. IV DECKS 11 and 12 **PAGE 14 of 16**

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NOTES

DECK 11
The final level of the Deflector Equipment and Space Energy Field Sensors is at the front of this deck.

Some space is set aside for Batteries, aft of which is the Sanitary Waste Recovery System. This system works with the Hydroponics Farm to help supplement the food production abilities.

The Fresh Water Tank continues aft of Hydroponics.

Further aft are more Cargo spaces.

More Air Tanks are located aft of the Cargo. These tanks work with the Atmosphere Control on the deck above, but they also help cycle the atmosphere for Hangar Bay Operations.

The Shuttlecraft turntable is functional, but there is no lift; maintenance occurs on the Flight Deck.

DECK 12
The main Cargo Holds are on this deck. The 4 Cargo Transporters are also located here.

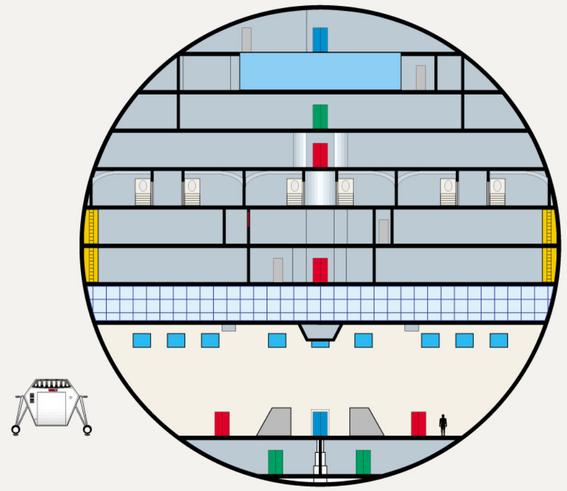
The Fresh Water Tank continues here from Deck 10 and Deck 11.

At the extreme aft is the machinery for the Hangar Bay doors.

ACCOMMODATIONS

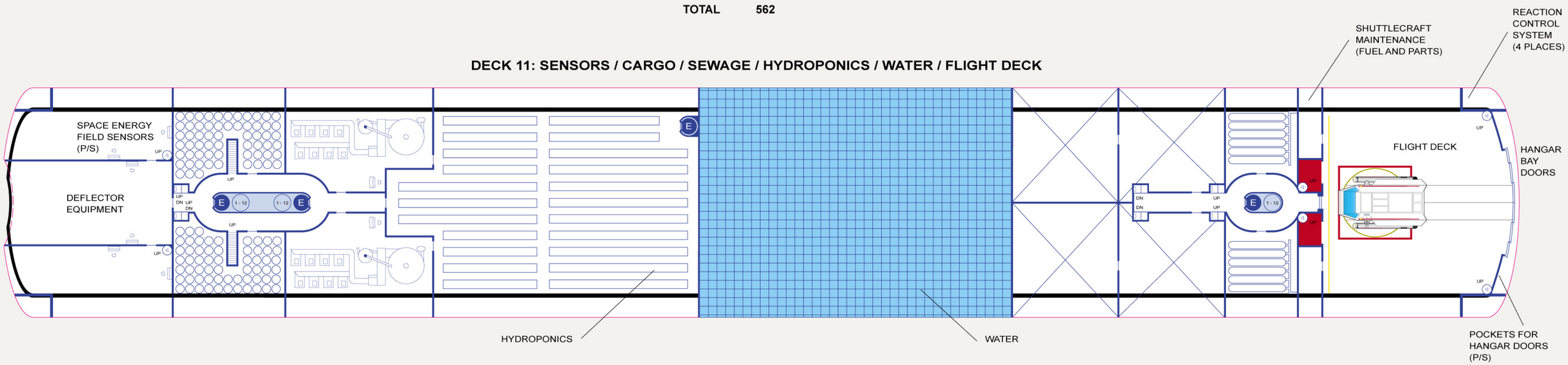
PASSENGERS		
Deck 4	-	156
Deck 5	-	180
Deck 6	-	126
Deck 7	-	100
TOTAL		**562**

CREW		
Deck 7	-	48
Deck 8	-	120
TOTAL		**168**

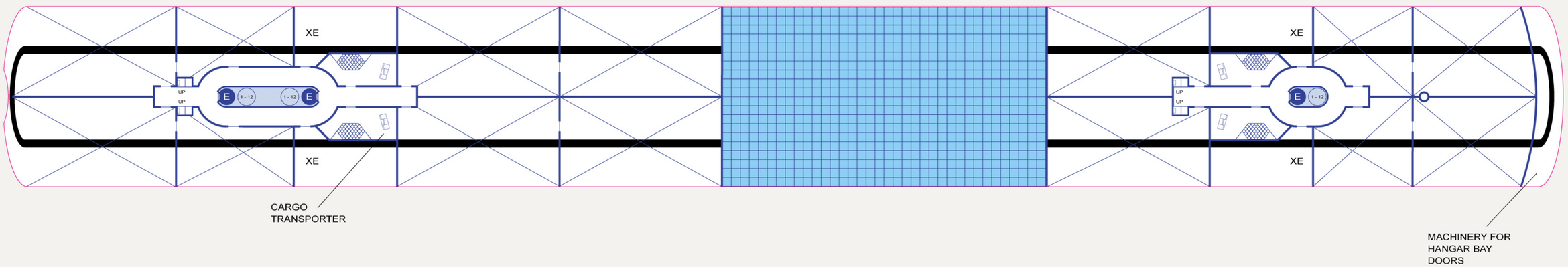


CROSS-SECTION F-F

DECK 11: SENSORS / CARGO / SEWAGE / HYDROPONICS / WATER / FLIGHT DECK



DECK 12: CARGO / TRANSPORTERS / WATER



STAR TREK - TRANSPORT CONTAINERS

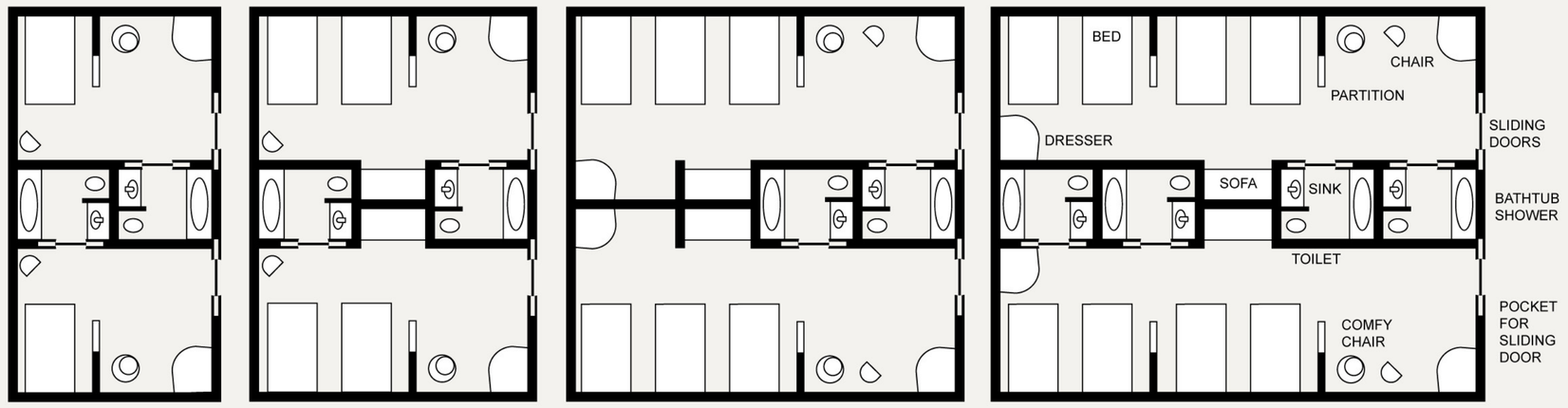
LAYOUT: ACCOMMODATIONS, etc. PAGE 15 of 16

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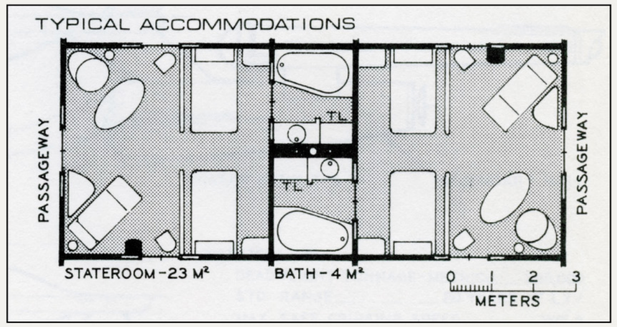




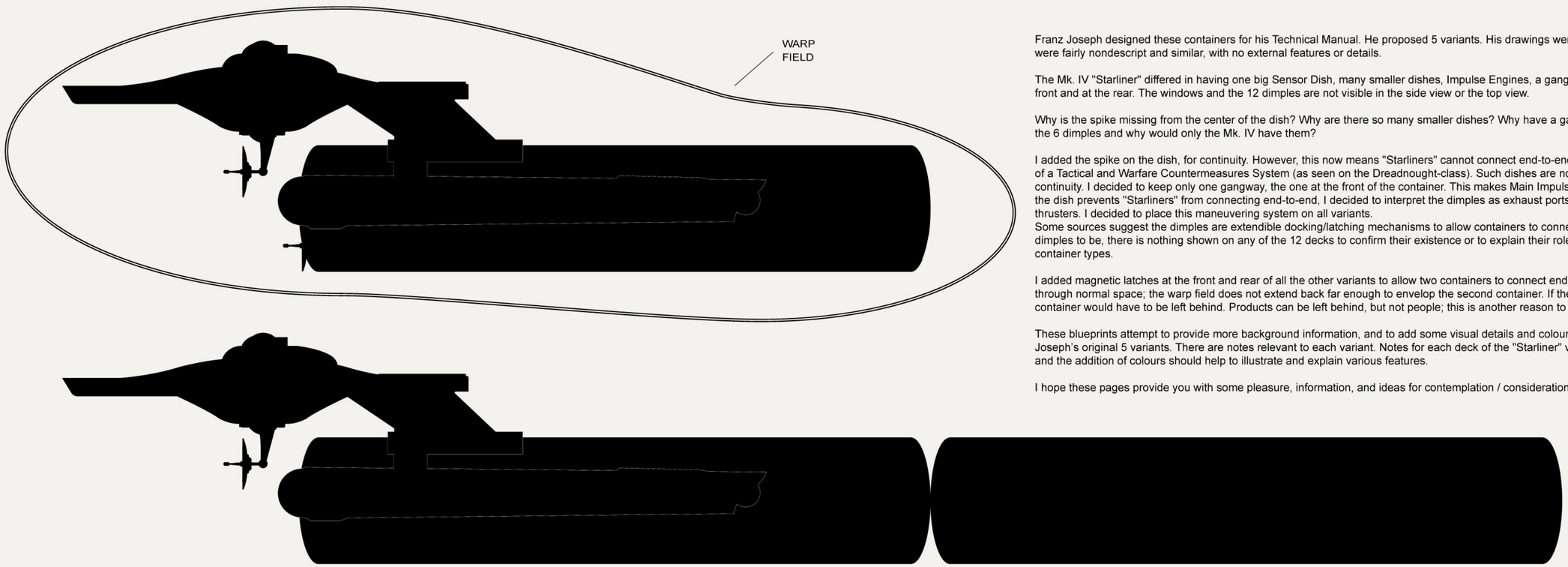
NOTES

My accommodations (left) are based on Franz Joseph's layout (below), but they have been modified to fit better on each deck.

I provide rooms for people traveling alone, or with up to 3 other people. If all the rooms for 1 person are replaced with rooms for 4 people, then the capacity of the "Starliner" can easily exceed 1,000. However ... there may not be sufficient food, air and water.



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



GENERAL NOTES

Franz Joseph designed these containers for his Technical Manual. He proposed 5 variants. His drawings were very small. Externally, four of his variants were fairly nondescript and similar, with no external features or details.

The Mk. IV "Starliner" differed in having one big Sensor Dish, many smaller dishes, Impulse Engines, a gangway fore and aft, windows, and 6 dimples at the front and at the rear. The windows and the 12 dimples are not visible in the side view or the top view.

Why is the spike missing from the center of the dish? Why are there so many smaller dishes? Why have a gangway in the center of Engineering? What are the 6 dimples and why would only the Mk. IV have them?

I added the spike on the dish, for continuity. However, this now means "Starliners" cannot connect end-to-end; the spike is too long. Smaller dishes are part of a Tactical and Warfare Countermeasures System (as seen on the Dreadnought-class). Such dishes are not needed here, so they were deleted, for continuity. I decided to keep only one gangway, the one at the front of the container. This makes Main Impulse Engineering more secure. Since the spike on the dish prevents "Starliners" from connecting end-to-end, I decided to interpret the dimples as exhaust ports for a Reaction Control System comprised of 16 thrusters. I decided to place this maneuvering system on all variants.
Some sources suggest the dimples are extendible docking/latching mechanisms to allow containers to connect end-to-end. But whatever FJ wanted the dimples to be, there is nothing shown on any of the 12 decks to confirm their existence or to explain their role, and they are not shown on any of the other container types.

I added magnetic latches at the front and rear of all the other variants to allow two containers to connect end-to-end. Two containers could be towed, but only through normal space; the warp field does not extend back far enough to envelop the second container. If the towing vessel had to go to warp, the second container would have to be left behind. Products can be left behind, but not people; this is another reason to not connect "Starliners" end-to-end.

These blueprints attempt to provide more background information, and to add some visual details and colours to the designs. I also expanded on Franz Joseph's original 5 variants. There are notes relevant to each variant. Notes for each deck of the "Starliner" variant have also been added. The larger scale and the addition of colours should help to illustrate and explain various features.

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
December 2021

STAR TREK - TRANSPORT CONTAINERS

LAYOUT: SYMBOLS, NOTES, etc. PAGE 16 of 16

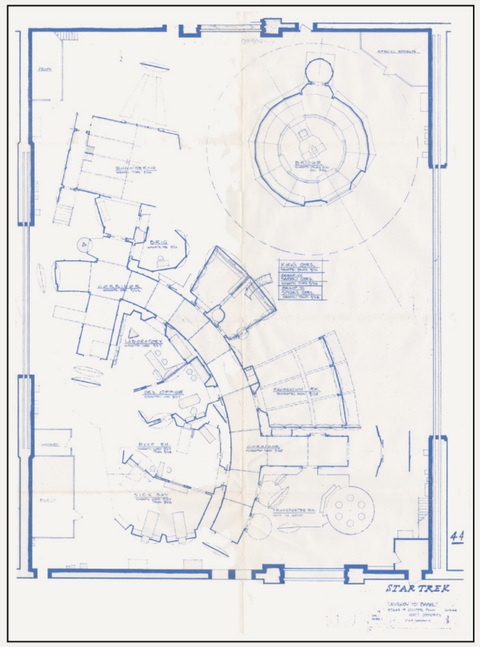
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0 5 10 15 20
METERS

THE DESILU STAGE AT THE SAME SCALE



CUTAWAY SYMBOLS

- STRAIGHT WALL
- CURVED WALL
- CUTAWAY ALONG WALL
- INNER FACE OF HULL
- CUTAWAY THROUGH DECK
- CUTAWAY ACROSS WALL
- CUTAWAY THROUGH DOOR
- DOORS
- ISOLATION DOORS
- PRIVACY SCREENS
- RECTANGULAR LADDER ALCOVE
- ROUND LADDER ALCOVE
- STAIRS
- RAILING
- TREE, SHRUB

ABBREVIATIONS

AA	-	ACTOR'S AREA
AM	-	AUXILIARY MACHINERY
BL	-	BIO LAB
C	-	CORRIDOR
CE	-	CHIEF ENGINEER
CMO	-	CHIEF MEDICAL OFFICER
CN	-	CHIEF NURSE
CNO	-	CHIEF NAVIGATOR'S OFFICE
CO	-	COMMANDING OFFICER
COO	-	COMMUNICATIONS OFFICER'S OFFICE
CON	-	CONVALESCENT WARD
CW	-	COLLAPSIBLE WALLS
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
ST	-	STORAGE
TE	-	THEATER EQUIPMENT
TL	-	TOILET
WR	-	WAITING ROOM
XE	-	TRANSPORTER EQUIPMENT
XR	-	TRANSPORTER ROOM

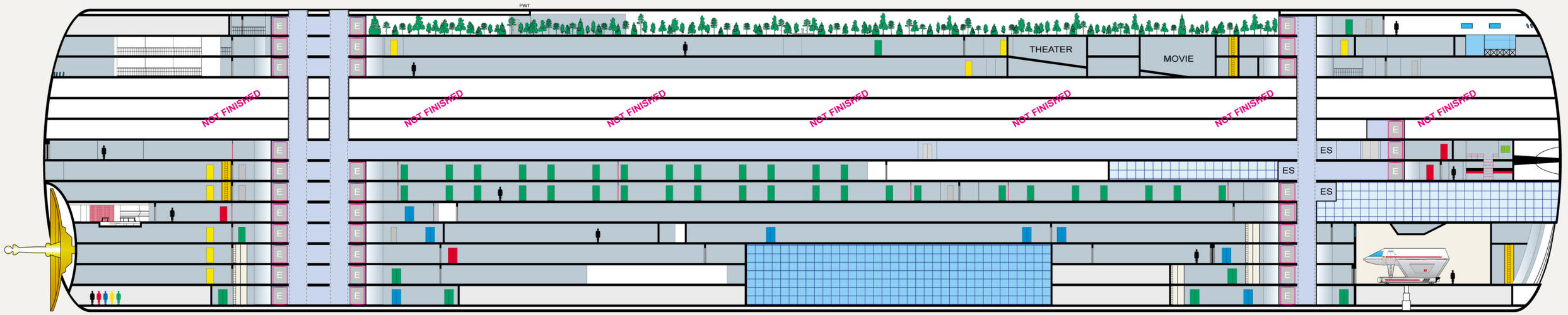
PLAN SYMBOLS

- CHAIRS
- TABLES
- DINING TABLE
- SHOWER, TUB
- DRESSERS
- BED
- ROOM PARTITIONS
  - White circular grille
  - Red hexagonal grille
- LADDERS
- MATERIAL FABRICATION / RECLAMATION MACHINERY
- STAIRS, RAILING
- WALL and DOOR
- TRAPEZOIDAL ISOLATION DOORS
- TOILET, SINK
- MEDICAL DIAGNOSTIC BED
- CONTROL CONSOLES
- STANDARD GASES
- FOUNTAIN
- LAUNDRY UNIT
- CIRCUIT BREAKERS
- COMPUTERS
- WATER PRESSURE SYSTEM
- WATER PUMP MACHINERY
- HULL THICKNESS AT FLOOR LEVEL (Varies depending on hull curvature)
- TREE, SHRUB
- BATTERIES
- SANITARY WASTE RECOVERY SYSTEM
- AIR CONDITIONING EQUIPMENT

NOTES

This scrap-view shows the original layout with 14 decks and 8-foot (2.4 meter) ceilings. There were too many passenger accommodations (over 800) with this configuration. I show this here in case anyone wants to expand on the possibility of a troop transport, or a colonization ship, or an emergency evacuation variant, etc.

For the final design with 12 decks (seen on all the previous pages), the turbo-elevators and doors were not changed but the decks and the outer hull are a bit thicker. Keep in mind the position of the Hangar Bay and the Hangar Bay Doors have changed, as well as the location of the windows.



CUTAWAY