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CONSTITUTION

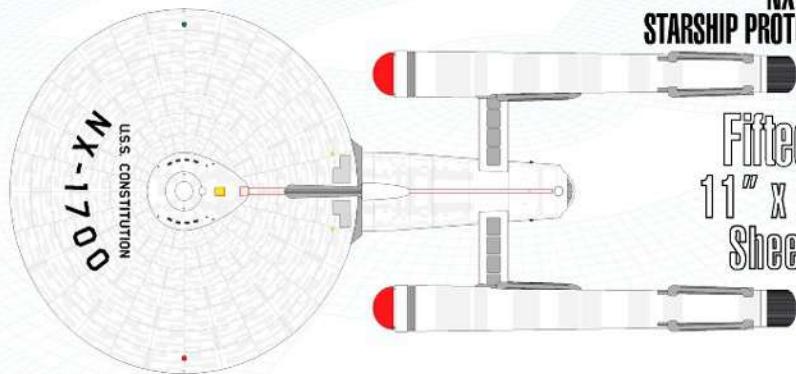
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CLASS

NX-1700

STARSHIP PROTOTYPE



Fifteen
11" x 17"
Sheets

40th Anniversary
Collector's Edition

External Blueprints and Internal Deck Plans

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CONSTITUTION

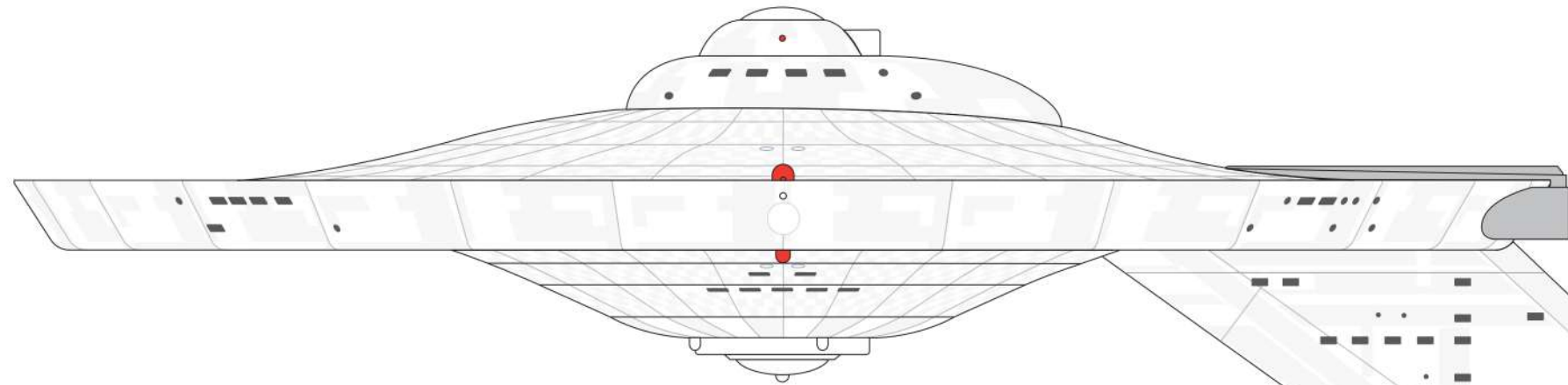
PROTOTYPE NX-1700

EXTERNAL VIEWS SHEET 1/15

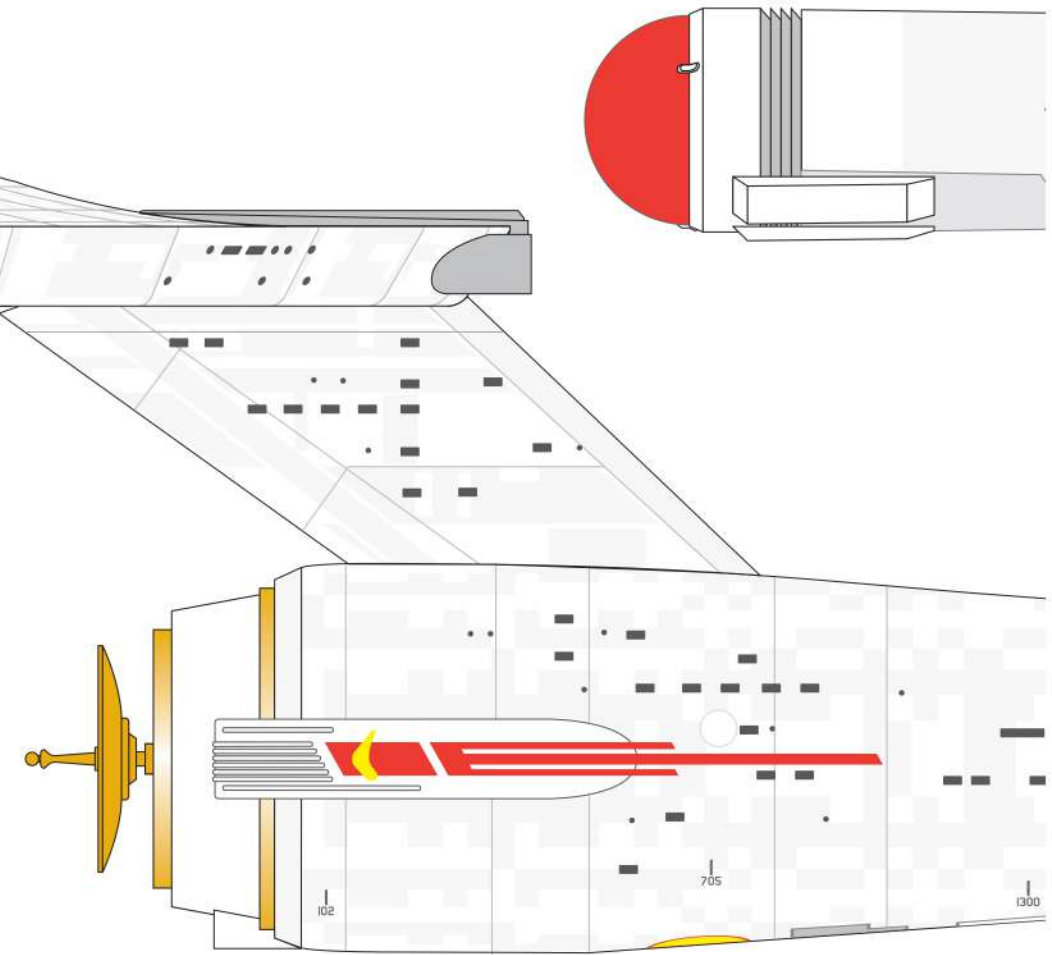
SPECIFICATIONS

DESIGN HISTORY

DESIGN TEAM: David Schmidt Designer / Layout Designer / Technical Editor
Tim Palgut Designer / Researcher / Layout Designer / Technical Editor



PORT VIEW



SPECIFICATIONS

PARTICULARS

Vessel Class Constitution
Identification NX-1700
Type Heavy Cruiser

SPACEFRAME

Overall Length 289 meters
Overall Beam 144 meters
Overall Draft 67.6 meters
Decks 21
Displacement 8.2 X 10⁵ tons

CREW & AUXILLARY SYSTEMS

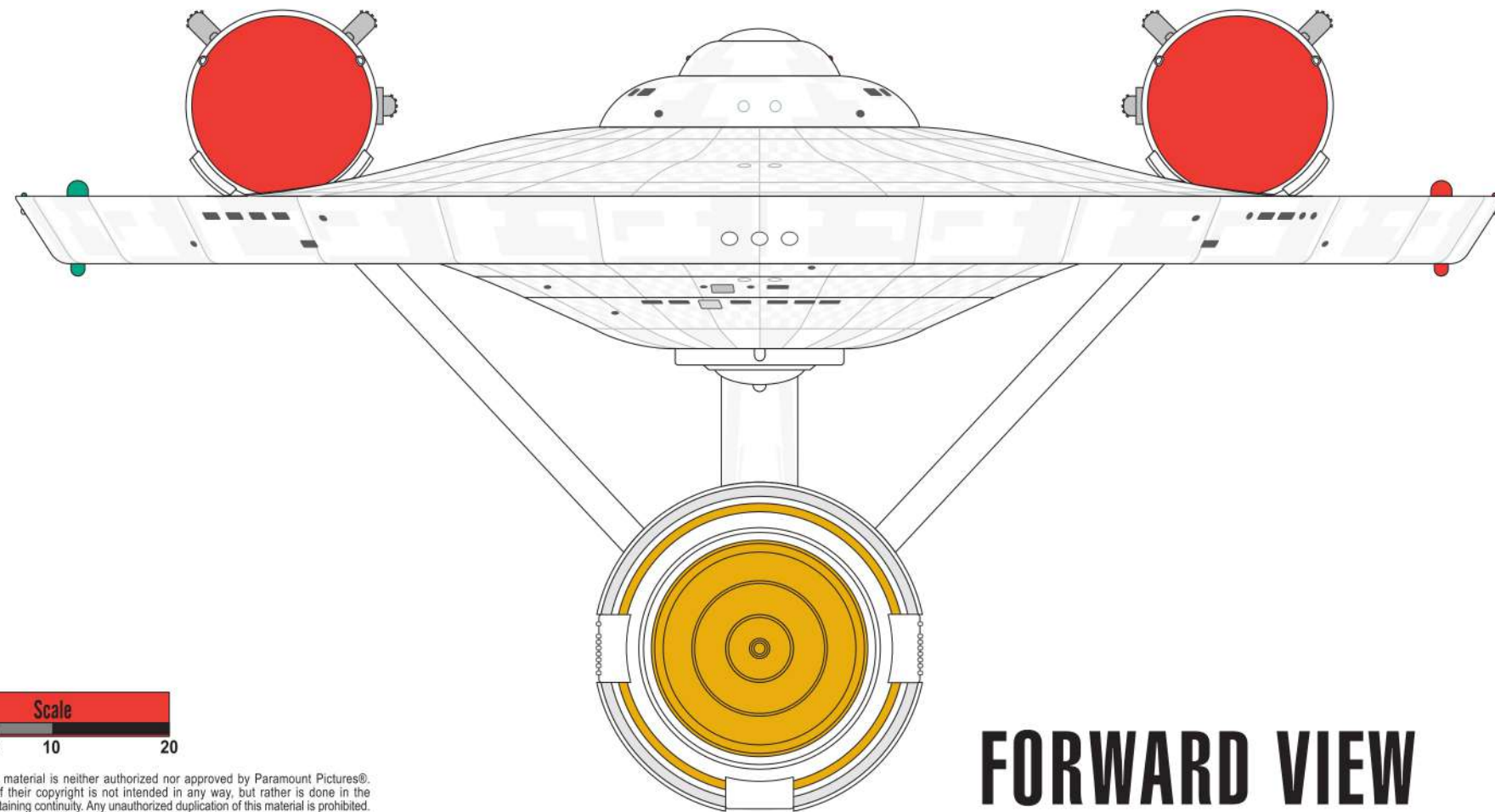
Complement 42 Officers
388 Enlisted
Transporters 4 6-personnel
3 22-personnel Emergency
4 Cargo

INFORMATION SYSTEMS

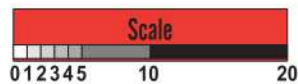
Computer Core 2 (1 Primary / 1 Secondary)
Duotronic Microprocessors

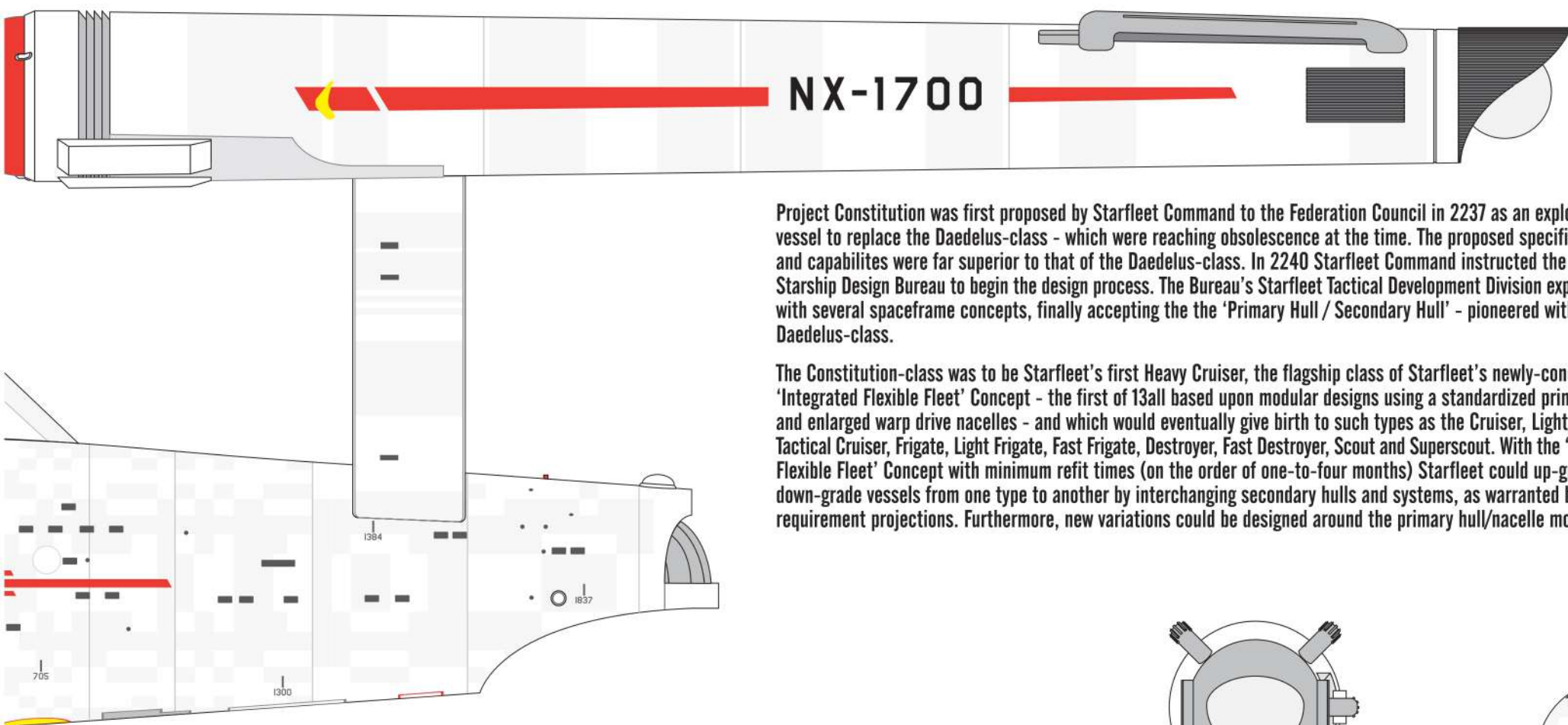
WARP SYSTEMS

Power Matter / Antimatter Reactor (2.3 X 10⁸ terawatt)
Cruising Speed wf 5.0
Flank Speed wf 6.0 (Sustainable for 12 hours)
Burst Speed wf 6.5 (Sustainable for 1 hour)



FORWARD VIEW





DESIGN HISTORY

Project Constitution was first proposed by Starfleet Command to the Federation Council in 2237 as an exploration vessel to replace the Daedalus-class - which were reaching obsolescence at the time. The proposed specifications and capabilities were far superior to that of the Daedalus-class. In 2240 Starfleet Command instructed the Advanced Starship Design Bureau to begin the design process. The Bureau's Starfleet Tactical Development Division experimented with several spaceframe concepts, finally accepting the the 'Primary Hull / Secondary Hull' - pioneered with the Daedalus-class.

The Constitution-class was to be Starfleet's first Heavy Cruiser, the flagship class of Starfleet's newly-conceived 'Integrated Flexible Fleet' Concept - the first of 13all based upon modular designs using a standardized primary hull and enlarged warp drive nacelles - and which would eventually give birth to such types as the Cruiser, Light Cruiser, Tactical Cruiser, Frigate, Light Frigate, Fast Frigate, Destroyer, Fast Destroyer, Scout and Superscout. With the 'Integrated Flexible Fleet' Concept with minimum refit times (on the order of one-to-four months) Starfleet could up-grade or down-grade vessels from one type to another by interchanging secondary hulls and systems, as warranted by fleet requirement projections. Furthermore, new variations could be designed around the primary hull/nacelle modules.

The first spaceframe components of the class' lead ship were gamma-welded at the Utopia Planitia Fleet Yards in 2242. On 15 March 2245, U.S.S. Constitution (NX-1700) was launched from Utopia Planitia. She immediately began shakedown trials in the home sectors, being formally commissioned on 31 October 2245.

First launched in 2245, by 2269 most of the Constitution-class Heavy Cruisers had undergone 4 upgrades:

- Upgrade 1.1
- Upgrade 1.2
- Upgrade 1.3
- Upgrade 1.4
- Post-shakedown - Standard Outfitting
- Replacement of Bridge Module
- Removal of Bussard Collector Spikes
- Replacement of Bridge Module
- Upgrading of Sickbay
- Upgrading of Main Engineering
- Upgrading of Main Deflector Generator
- Upgrading of Life-Support Systems
- Upgrading of Structural Integrity Field Generators
- Upgrading of Nacelle Aft End Caps

ILLARY SYSTEMS

42 Officers
388 Enlisted
4 6-personnel
3 22-personnel Emergency
4 Cargo

N SYSTEMS

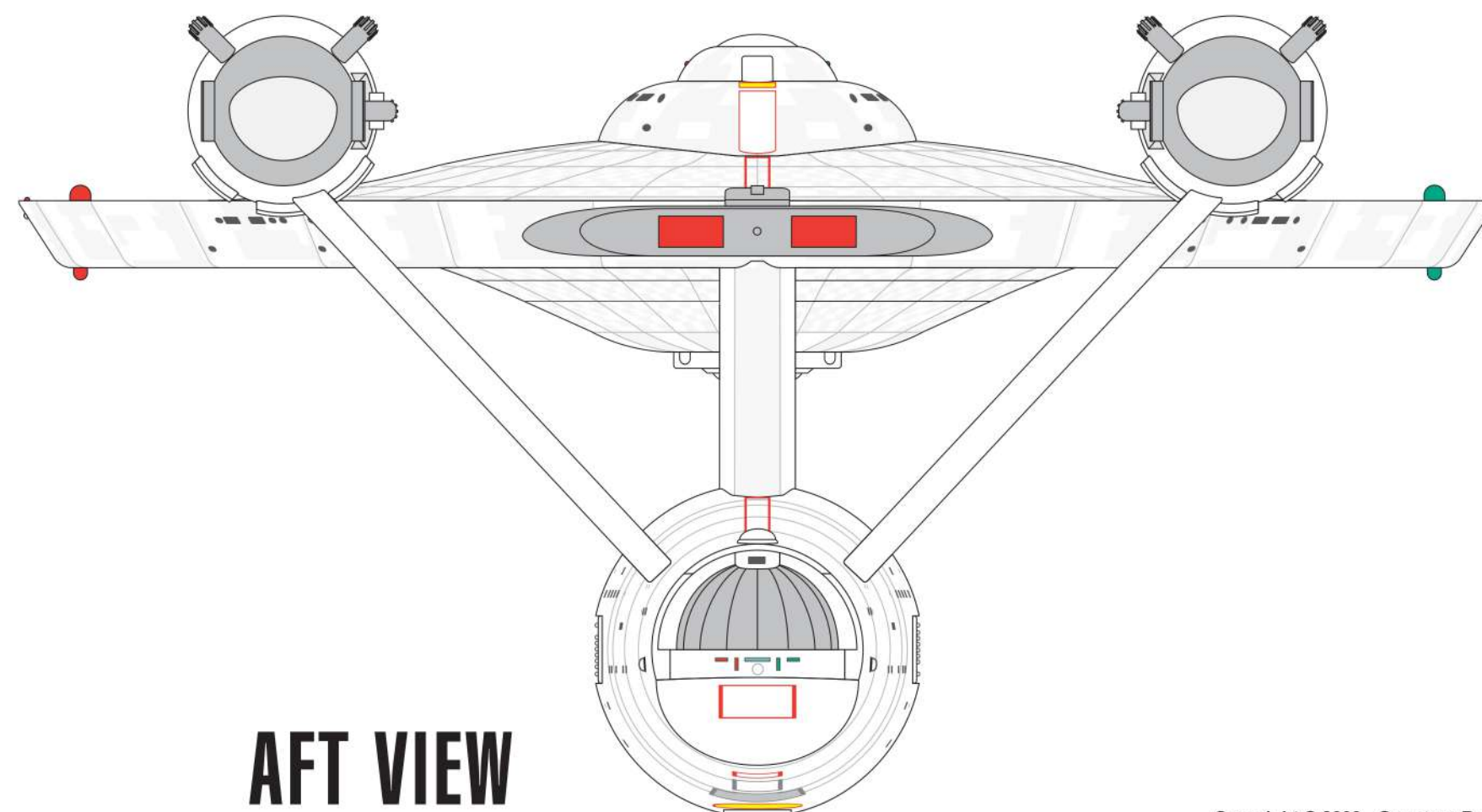
2 (1 Primary / 1 Secondary)
Duotronic Microprocessors

IMPULSE SYSTEMS

Power Primary - feed from warp core (4.9×10^{10} megawatt)
Secondary - 4 deuterium fusion reactor (3.7×10^{10} megawatt)
Vector Nozzle 2
Cruising Speed 0.19 c
Flank Speed 0.79 c

TACTICAL SYSTEMS

Phaser 12 - Type VII retractable turret
Torpedo Tube 2 Fore / 1 Aft - Type 2
Magazine 32 Mark IV Photon Torpedoes
10 Probes
Grid 5 Deflector Shield Generator
(rated 6.7×10^2 mw - standby / 2.01×10^3 mw - alert / 3.52×10^6 mw - 0.0038 Sec.)
10 Structural Integrity Field Generator (rated 1.15×10^3 mw)
Deflector 1 - Forward (1.01×10^2 megawatt - 187 millicochrane)
Tractor Beam Main - 1 Aft (6 megawatt - 225 millicochrane)
1 Shuttlebay (internal)



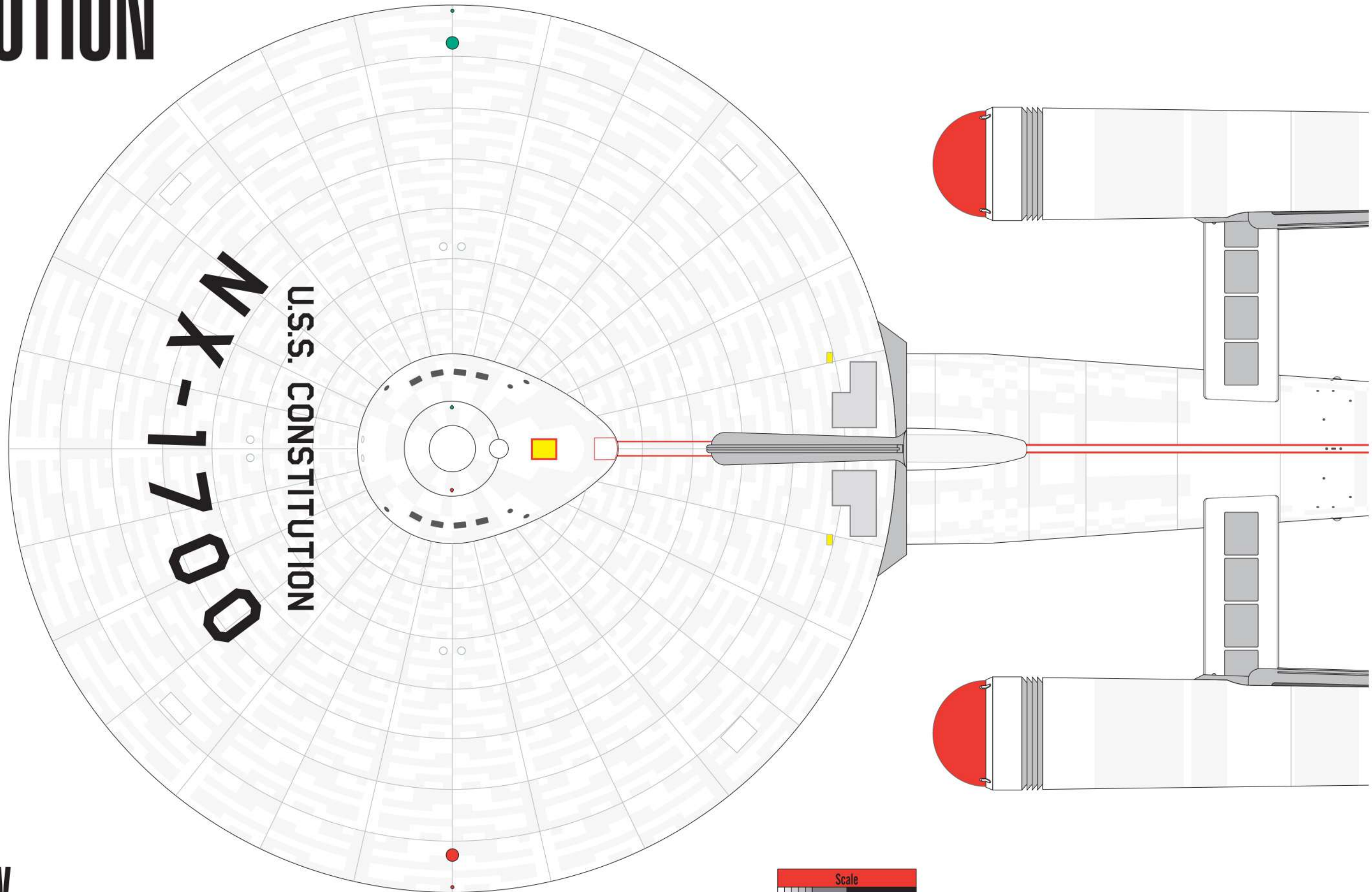
AFT VIEW

CONSTITUTION

PROTOTYPE NX-1700

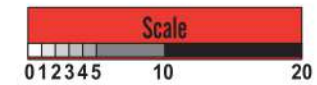
EXTERNAL VIEWS SHEET 3/15

INTERNAL SYSTEMS



DORSAL VIEW

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INTERNAL SYSTEMS

These feed a pair of 100 millicochrane subspace field distortion amplifiers. Any two units are capable of supporting the entire SIF grid at 100% for 40 hours before gaussing causes a critical shut down. The SIF system creates a subspace distortion field that is guided along all trusses and hull plates, reinforcing these by a factor of 100,000% of their usual tensile, compressive and torsion strength.

Section 1.3 Inertial Damping Field & Synthetic Gravity Generators

The Inertial Damping Field (IDF) operates in parallel with the ship's artificial gravity generators, maintaining a series of variable-symmetry force fields that absorb external inertial forces. The force fields are maintained according to SFRA-standard 352.12, averaging 75 millicochranes with field differential of 5.26 nanocochranes/meter. Flux generation for IDF and gravity are provided by generators within the crawl space under each deck, in a hexagonal grid with nodes spaced 0.3 meters apart.

Section 1.4 Security & Containment Force Field Generators

There are secondary force-field generators mounted within the vessel, filling a variety of roles. Main Engineering has a series responsible for maintaining containment for the Warp Core - with standby units for emergency containment in the event of coolant leakage and other hazards endemic to Antimatter and Fusion reactions. Others scattered throughout the ship are non-dedicated, and using waveguides and sophisticated forming software can be routed to perform various tasks - including corridor security barriers, brig security barriers, and bulkhead life-support barriers (in the event of localized hull breaches), these units have a set of four 1 megawatt polarity sources feeding a pair of 50 millicochrane field generators.

Section 1.51 Ordnance: Phasers

As in earlier designs, phaser cannon turrets are normally retracted within the hull behind sliding armor panels, and when required the emitter heads are extended beyond the hull on telescoping supports. Unlike previous designs, the Constitution-class features redundant pairing of turret/emitters at all positions, with both members of a pair locked to synchronous parallax. Turrets are located on Decks 5 and 8.

Section 1.52 Ordnance: Photon Torpedoes

Twin photon torpedo launchers are located on Deck 3, as well as twin magazines. The aft launcher is mounted in the engineering hull fantail.

Section 1.53 Ordnance: Force-field / Deflector Screen Generators

Three generators are located on Deck 6, and two more on Deck 16. These units have a set of four 4 megawatt polarity sources feeding a pair of 200 millicochrane field generators.

Section 2.0 Computer Systems

The Main Computer Core (MCC) is located on Decks 2 through 9 in the Primary hull. Although there are access catwalks every 2.5 m, the entire 20 m core is one integral unit. The MCC consists of 400 dedicated modules of 144 duotronic chips, which, under LCARS control provide dynamic access at a rate of 4,800 kiloquads/sec. The total storage capacity for each module is 16,000 to 64,000 kiloquads, depending on software configuration and data compression rates. The Secondary Computer Core (SCC) is located on Deck 16 in the Engineering hull, and can take over from the Main Computer Core with the loss of non-critical functions. The SCC consist of 50 dedicated modules of 144 duotronic chips, with the same characteristics as the MCC modules. Both the MCC and SCC are joined to the Optical Data Network (ODN) by triple redundant Micron Junction Links (MJL) on each module. The final layer to the computer systems is a dedicated short range Radio Frequency (RF) system that all cores and SPNs use to communicate with the control panels, access points, and PADDs.

Section 1.0 Spacecraft Structure

The spaceframe of the Constitution-class starship is tritanium/duranium macrofilament truss frames, averaging 0.5 m² in cross section. These are placed at the tops of Decks 2,4,6,8,10, 12 and 14 for all three axis of the ship. Smaller trusses are spaced between quarters, at corridor junctions, and at the turbolift shafts, measuring 0.2 m² in cross section. This physical framework is reinforced by the Structural Integrity Field (SIF), using a network of Class 2 ceramic-polymer wave guides to distribute energy to Class 1 ceramic-polymer elements. The exterior hull substrate is poly bonded to 4 cm by 0.5 cm bands with 2 cm studs every meter that are gamma welded to the main frame. Decks 8 and 14 in the interconnecting dorsal are windowless to reinforce hull integrity at those possible weak points.

Section 1.1 Spacecraft Hull Structure

The first hull layer is 5 cm thick and is composed of a poly microfoam with interwoven tritanium filaments (nominally 1.5 meters in width by 2.5 meters in length). The second layer is four sheets of 0.4 cm thick tritanium, each going 90 degrees to the layer above it, for torsion strength, a fifth sheet of Aledium foil is 0.4 cm thick also and used for radiation protection. The third layer is a honeycombed duranium alloy with a micro-ceramic polymer bonded to each side used for thermal insulation and SIF conductivity. The fourth and outer layer is composed of a 2.0 cm ablative ceramic fabric with interwoven tritanium filaments. This is attached to a polycobhrams sheet by a chemical bonding process. This layer 3.0 meters wide by 3.0 meters in length and is attached with standard duranium fasteners to the first three layers after they are bonded together. This layer is replaced as needed, with no more than 8 years between oldest and newest sheets.

Section 1.2 Structural Integrity Field

The physical integrity of the spaceframe is augmented by the SIF. The SIF is created by eight field generators on Deck 5 and two field generators on Deck 15 (which reinforce both the Secondary Hull and the Warp Drive Nacelles and Pylons). Each consists of a pair of 2 megawatt graviton polarity sources.

CONSTITUTION

PROTOTYPE NX-1700
EXTERNAL VIEWS SHEET 5/15
INTERNAL SYSTEMS

SYMBOL CHART

EMBARKED CRAFT



Work Bee



Type 2 Shuttle

ESCAPE SYSTEMS



Escape Pod



Escape Pod Niche

EXTERNAL MARKINGS



Hazardous Material Intake



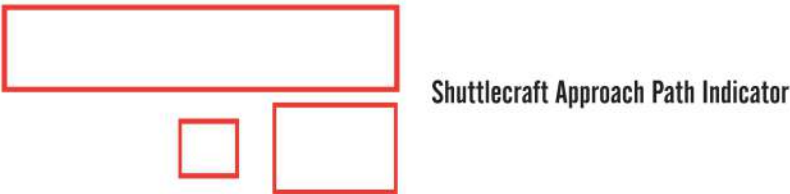
Warp Engine Proximity EVA Warning Stripe



Fleet Formation Target

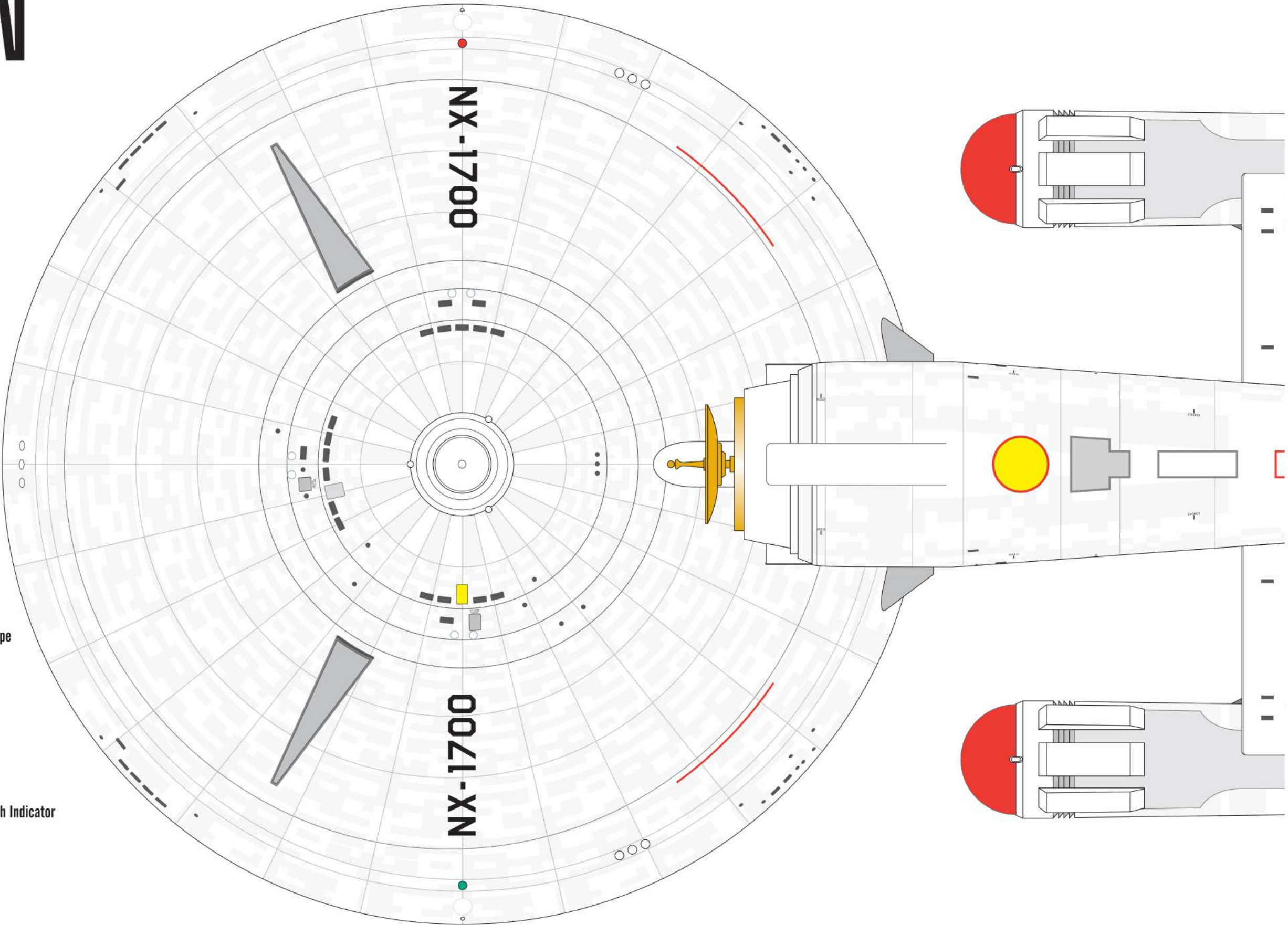


Starbase Y-axis Docking Target

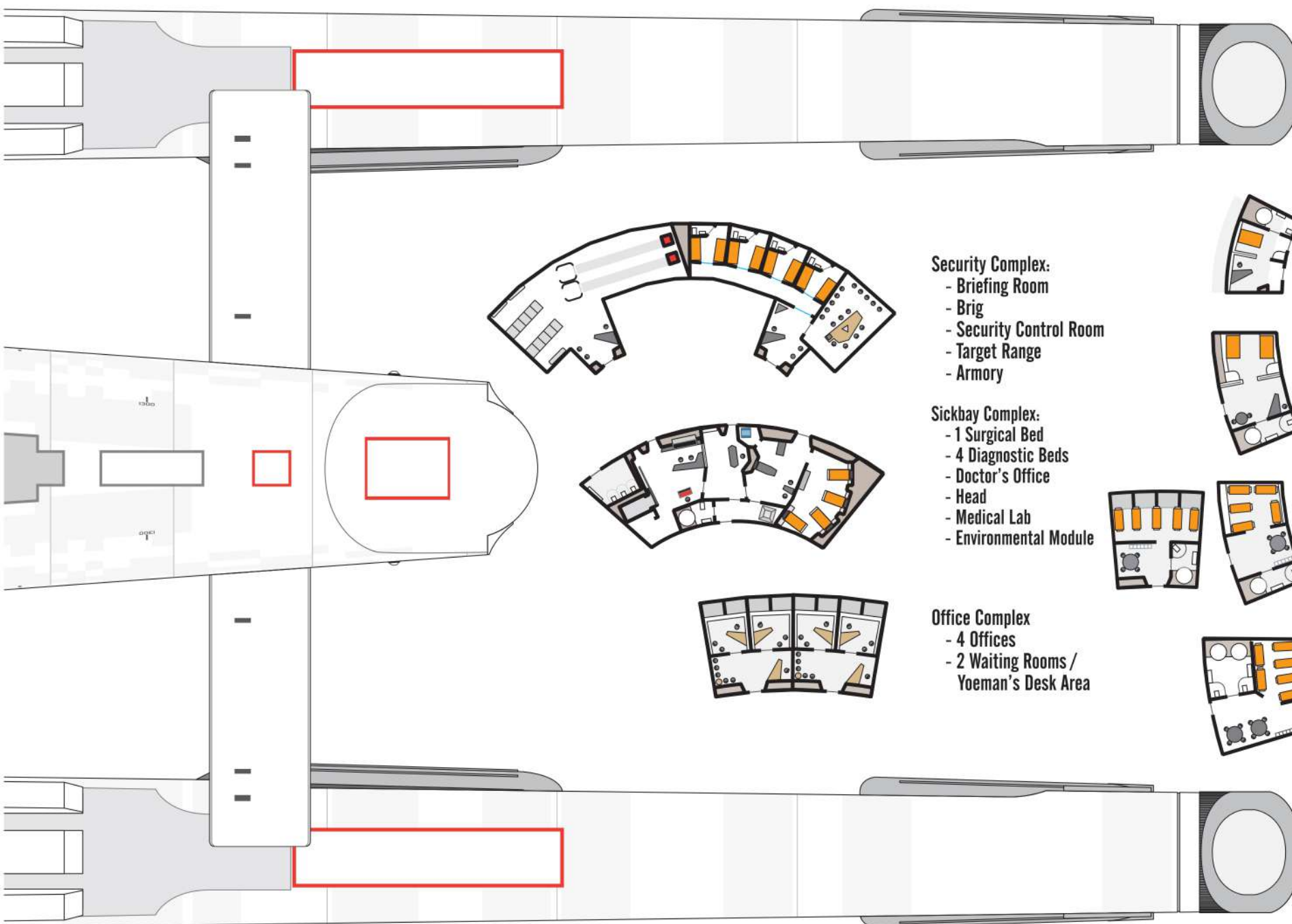


Shuttlecraft Approach Path Indicator

VENTRAL VIEW



SYMBOL CHART



- Security Complex:**
- Briefing Room
 - Brig
 - Security Control Room
 - Target Range
 - Armory

- Sickbay Complex:**
- 1 Surgical Bed
 - 4 Diagnostic Beds
 - Doctor's Office
 - Head
 - Medical Lab
 - Environmental Module

- Office Complex**
- 4 Offices
 - 2 Waiting Rooms /
Yoeman's Desk Area

- Senior Officer's Quarters:**
- Sleeping Area
 - Office Area
 - Closet
 - Head & Sonic Shower

- Junior Officer's Quarters:**
- Sleeping Area
 - Office Area
 - Closet
 - Head & Sonic Shower

- Enlisted Quarters:**
- Sleeping Area
(5 3-tiered bunks)
 - Dining Area
 - Lockers
 - Head & Sonic Shower

- Enlisted Quarters:**
- Sleeping Area
(6 3-tiered bunks)
 - Dining Area
 - Lockers
 - Head & Sonic Shower

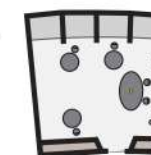
AUXILIARY ENGINEERING - COMPARTMENTS



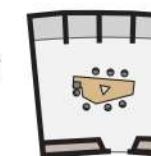
VIP Observation Lounge



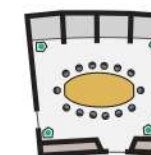
Chapel



JAG Courtroom /
Multipurpose Room



Briefing Room



VIP Dining Room



Head



Auxiliary Control Center



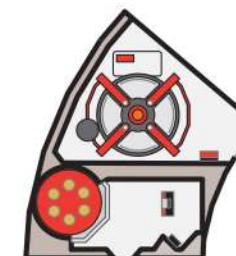
Science Lab - Type 1
- Research Area
- Operators' Stations



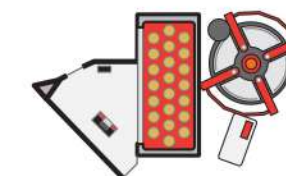
Science Lab - Type 2
- Research Area
- Operators' Stations



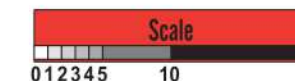
Science Lab - Type 3
- Research Area
- Operators' Stations
- Storage Area



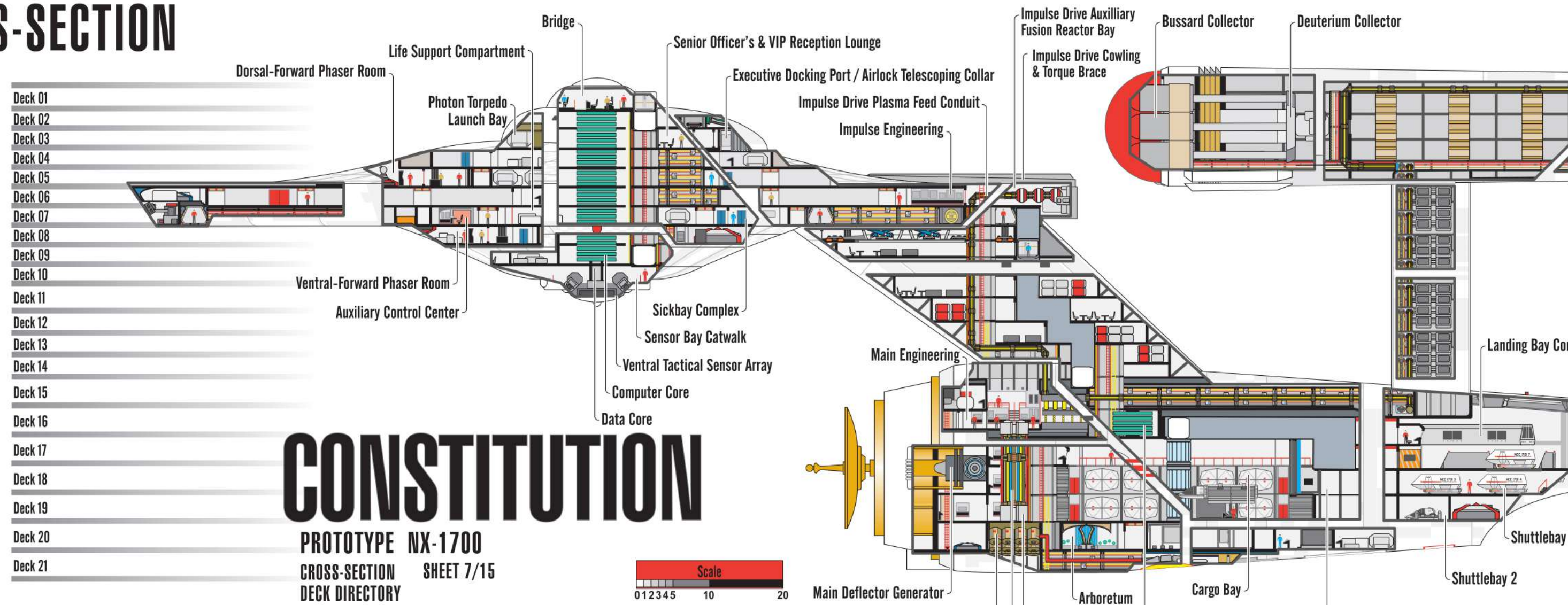
6-Personnel Transporter
Room
- Buffer Alcove
- Stage
- Operators' Station



22-Personnel Emergency
Transporter Room
- Buffer Alcove
- Stage
- Operator's Station

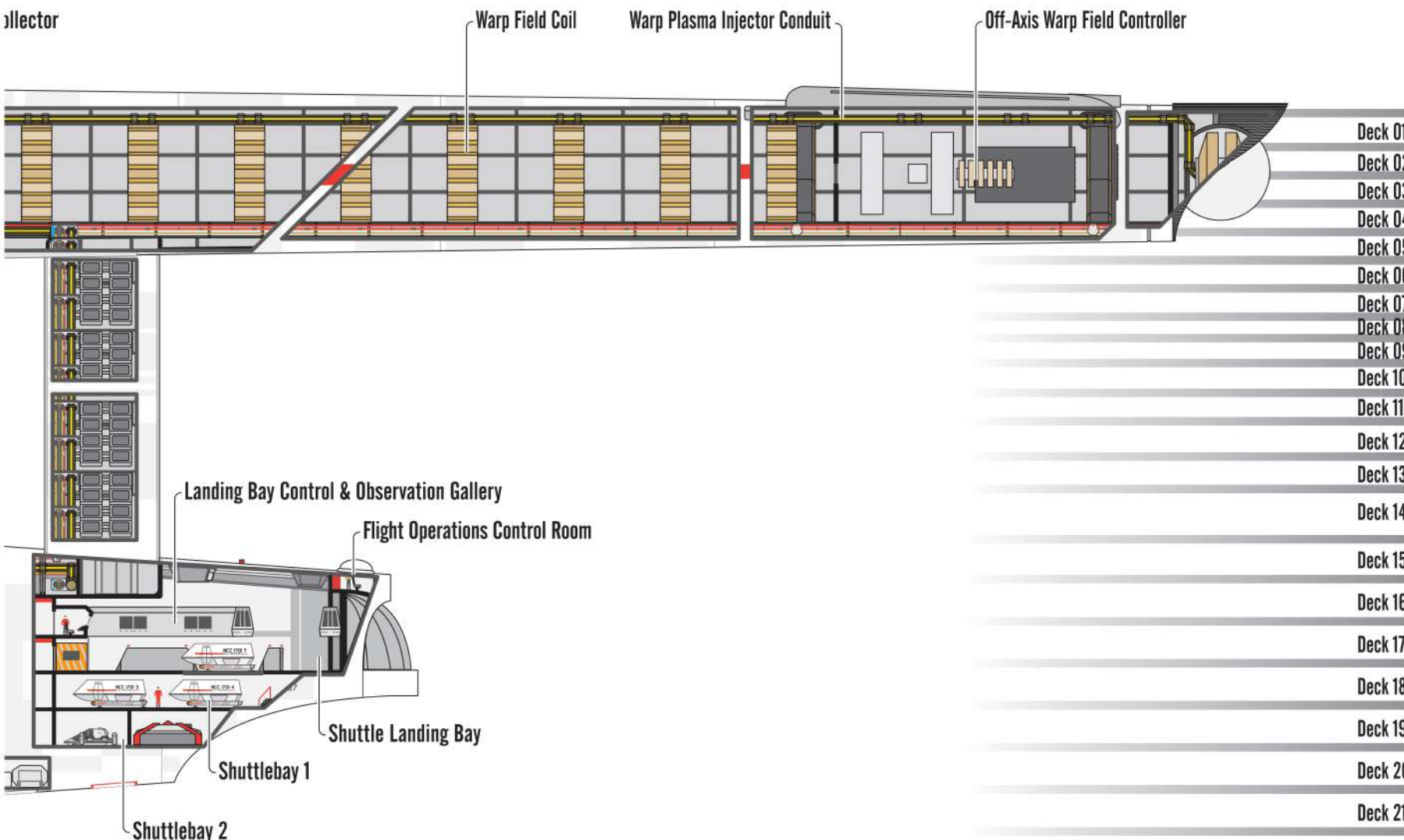


CROSS-SECTION



DECK DIRECTORY

Deck 01		1	Docking Port / Airlock Telescoping Collar	8	Structural Integrity Field Generator Bay	1	Lounge	1	Security Complex	2	RCS Control Thruster Bay	
1	Main Bridge			2	Amino Acid / Raw Carbohydrate / Stasis Tankage	2	Briefing Room		- Briefing Room	1	Computer Core	
1	Dorsal Tactical Scanner / Sensor Suite	Deck 04		2	Umbilical Connection Bay	1	Chapel		- 4 2-man Brigs	1	Life Support Compartment	
Deck 02		10	Officer's Quarters	80	Escape Pod	1	JAG Courtroom / Multipurpose Room		- Security Control Room	2	Landing Pad & Armature	
		2	VIP Quarters	1	Computer Core	2	Main Gangway & Retractable Sleeve		- Firing Range			
	1	Communications Control	3	Dorsal Phaser System Turret	1	Waste Recycling	1	Bowling Alley		- Locker Room & Armory	Deck 08	
	1	Combat Information Center		Compartment - Upper Level			1	Recreation Lounge - Upper Level	1	Sickbay Complex	3	Ventral Phaser System Turret Compartment
1	Computer Core	1	Computer Core	Deck 06		1	Gymnasium		- Containment Area	2	Emergency Transporter Room	
1	Subspace / Radio Transceiver Bay	2	Battery Room	8	Officer's Quarters	1	Impulse Engineering Complex		- 1 Surgical Bed	2	Transporter Transceiver / Plasma Relay	
Deck 03		1	Docking Port / Airlock Machinery Room	16	Junior Officer Quarters	1	Computer Core		- 4 Diagnostic Beds	2	Transporter Buffer	
		Deck 05		24	Enlisted Bunkrooms (390 bunks total)	1	Cryogenic Cooling System		- Doctor's Office	1	Computer Core	
	1	Computer Core	8	Officer's Quarters	13	Science Lab	/ EPS Relay Compartment		- Head			
	2	Photon Torpedo Launch Bay	3	Dorsal Phaser System Turret	2	Office Complex	Landing Pad Armature	2	- Medical Lab			
1	Photon Torpedo Magazine A		Compartment - Main Level	1	Galley & Food Synthesizer Programming	Deck 07			- Environmental Module	Deck 08 - Dorsal		
1	Photon Torpedo Magazine B	6	Organic Synthesis	1	Main Food Synthesis	1	Auxiliary Control Center	93	Escape Pod	1	Landing Pad & Armature	
1	Senior Officer's & VIP Reception Lounge	2	Inorganic Synthesis	3	Defense Field Generator Room	1	Navigational Sensor Array	2	Cryogenic Gas / Water Tankage Bay	1	Explosive Bolts Bay	
1	Environmental Suit Locker			2	Crew Mess/Lounge			1	Recreation Lounge - Main Level			
								4	Transporter Room			



Deck 16

- 1 Main Engineering - Propulsion & Warp Core - Main Level
- 1 Deuterium Processing Room
- 1 Chief Engineer's Office
- 1 Diagnostic Workshop
- 1 Dilithium Control Room
- 1 Inorganic Synthesis
- 1 Computer Core
- 2 Defense Field Generator Compartment
- 2 Landing Bay Atmospheric Processing & Storage
- 1 Landing Bay Control / Observation Gallery
- 1 Landing Bay - Upper Level
- 1 Turbolift Repair

Deck 17

- 1 Main Engineering - Warp Core
- 1 Deflector Generator Bay - Upper Level
- 2 Long Range Sensor Bay - Upper Level
- 2 Deuterium Tankage - Upper Level
- 2 Escape Pod
- 1 Briefing Room
- 1 Quartermaster's Office
- 2 Docking Port / Airlock
- 1 Lounge
- 1 Cargo Bay - Upper Level & Catwalk
- 1 Shuttle Elevator Bay - Upper Level
- 1 Landing Bay - Main Level
- 6 Personal Lift Room

Deck 18

- 1 Main Engineering - Warp Core
- 1 Deflector Generator Bay - Main Level
- 2 Long Range Sensor Bay - Main Level
- 2 Deuterium Tankage - Mid Level
- 14 Escape Pod
- 1 Cargo Bay - Mid Level
- 1 Shuttle Elevator Bay - Main Level
- 1 Shuttle Parking Bay
- 1 Photon Torpedo Launch Bay
- 2 Photon Torpedo Magazine
- 2 Ion Pod Station

Deck 19

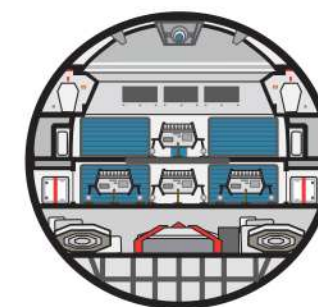
- 1 Main Engineering - Antimatter Injector
- 1 Deuterium Tankage - Main Level
- 2 Cargo Transporter Bay
- 1 Cargo Bay - Main Level
- 1 Shuttle Elevator Bay - Sub Level
- 1 Workbee Parking Bay
- 1 Transporter Buffer / Transceiver Bay

Deck 20

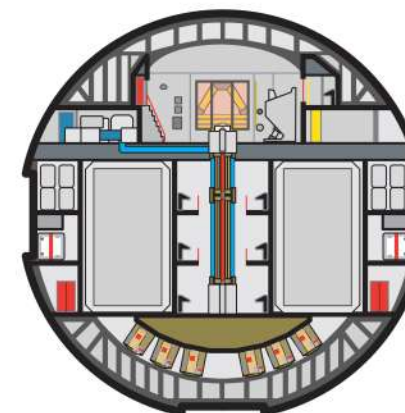
- 1 Antimatter Processor
- 1 Insulating Force Field Generator Room
- 1 Arboretum
- 1 Emergency Life Support
- 1 Battery Room
- 1 Emergency Transporter Room
- 1 Ship's Theatre
- 1 Tractor Beam Emitter

Deck 21

- 1 Long Range Sensor Bay
- 2 Plasma Relay Room
- 1 Antimatter Loading Port
- 1 Subspace / Radio Transceiver Bay
- 1 Umbilical Connection Bay



Cross-Section Through Shuttlebay
Forward Aspect



Cross-Section Through Main Engineering
Aft Aspect

- RCS Control Thruster Bay
- Computer Core
- Life Support Compartment
- Landing Pad & Armature
- 8 Ventral Phaser System Turret Compartment
- Emergency Transporter Room
- Transporter Transceiver / Plasma Relay Bay
- Transporter Buffer
- Computer Core
- 8 - Dorsal
- Landing Pad & Armature
- Explosive Bolts Bay
- Deck 09
- 2 Observation Lounge
- 1 Laundry Bay
- 1 Computer Core
- 1 Umbilical Connection Bay
- 1 Docking Port / Airlock
- Deck 09 - Dorsal
- 1 Observation Lounge
- Deck 10
- 1 Ventral Tactical Scanner / Sensor Suite
- Deck 10 - Dorsal
- 1 Damage Control Locker

- Deck 11 - Dorsal
- 1 Observation Lounge
- Deck 12 - Dorsal
- 1 Damage Control Locker
- Deck 13 - Dorsal
- 1 Observation Lounge
- Deck 14
- 3 Vertical Jeffries Tube
- 1 Horizontal Jeffries Tube
- Nacelles & Pylons
- 1 Bussard Ionizing Beam Emitter Bay
- 1 Bussard Magnetic Field Generator/Collector Bay
- 1 Continuous Cycle Fractionator & Deuterium Chiller Bay
- 1 Warp Coil & Plasma Injector Bay
- 1 Off-Axis Field Coil Bay
- Deck 15
- 1 Main Engineering - Propulsion & Warp Core - Upper Level
- 1 Matter/Antimatter Intermix Valve Chamber
- 1 Warp Core Coolant Compartment
- 2 Structural Integrity Field Generator Bay
- 1 Emergency Manual Monitor
- 1 Shuttle Traffic Control Room

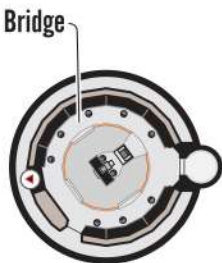
CONSTITUTION

PROTOTYPE NX-1700

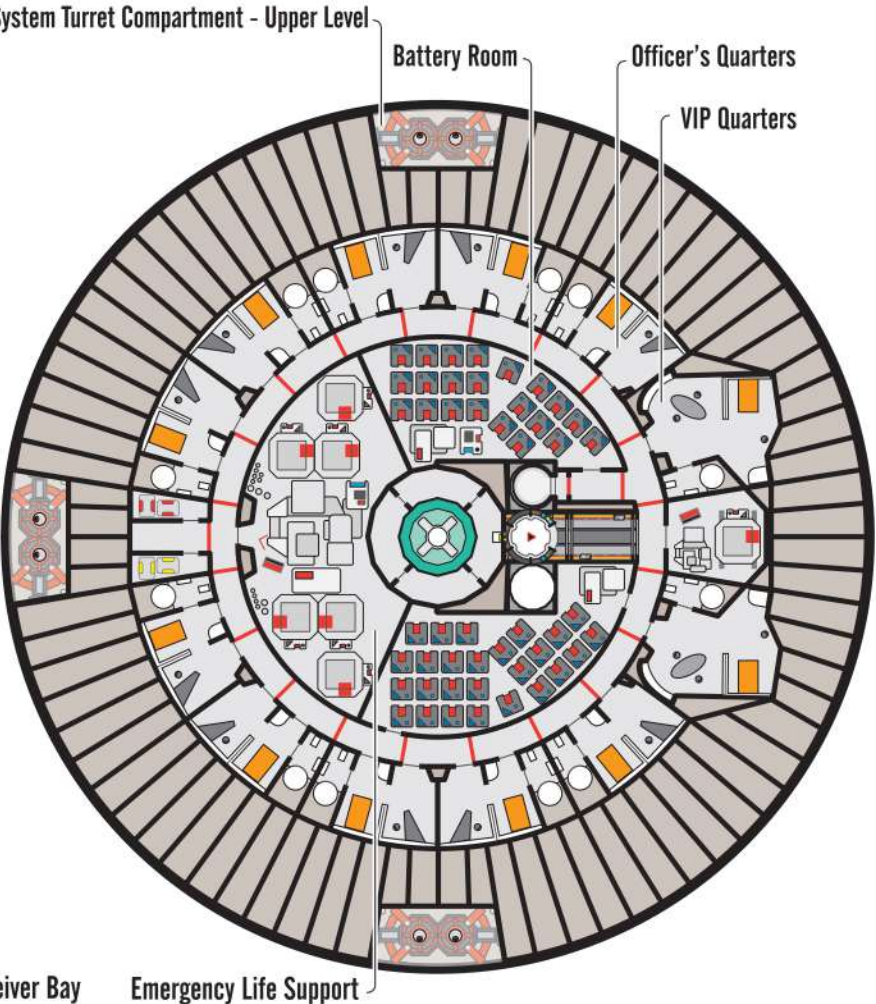
INTERNAL VIEWS SHEET 9/15

INTERNAL SYSTEMS

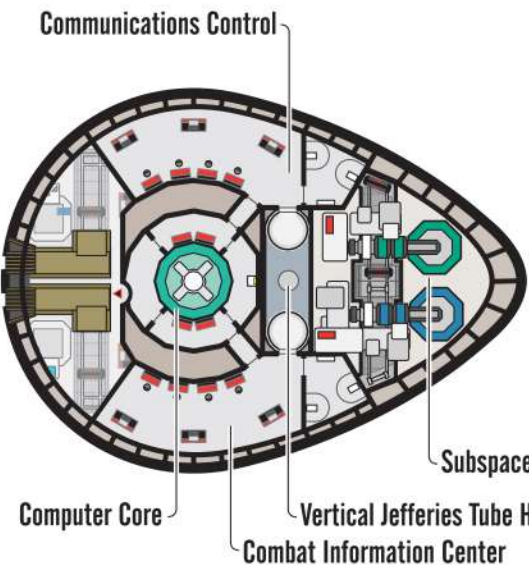
DECK 1



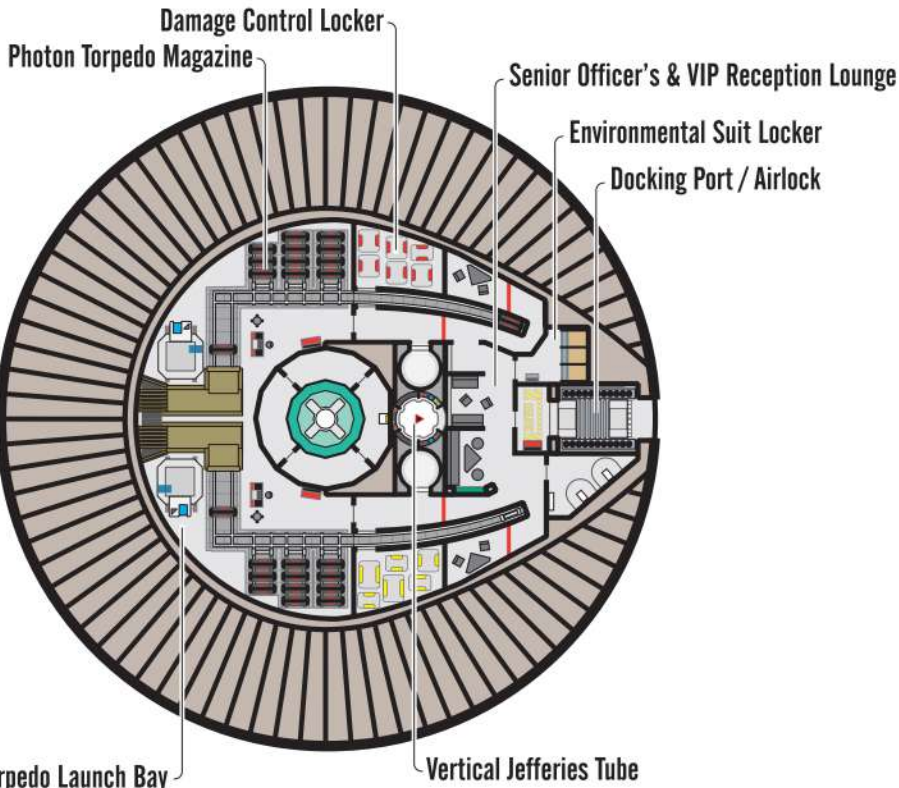
DECK 4



DECK 2



DECK 3



INTERNAL SYSTEMS

Section 2.1 Information Gathering Systems

Information gathering systems are divided into sensors (passive energy/field detecting/analyzing systems) and scanners (active energy/field emitting-reflection detecting/analyzing systems). Each of these is further subdivided into long-range (faster-than-light) and short-range (lightspeed). Omni-directional packages are generally mounted at the vessel's dorsal and ventral Z-axis poles. Directional packages (including tactical scanners) are mounted along the vessel's forward x-axis.

Section 3.01 Crew Facilities - Quarters

Crew quarters are relatively unchanged since the Daedalus-class, and are modular. Enlisted quarters consist of 2 compartments, a sleeping area (5 3-tiered bunks) plus a dining/relaxation area (containing table and chairs, lockers and head). Petty Officer quarters consist of 2 compartments, a sleeping area (2 3-tiered bunks) plus a dining/relaxation area (containing table and chairs, lockers and head). Officer quarters consist of 2 compartments, a sleeping area (single bunk) plus a dining/office/relaxation area (containing desk and chairs, computer system, closet and head).

Section 3.02 Crew Facilities - Recreation

Recreation facilities set a new benchmark for Starfleet personnel enjoyment. The enormous

two-story Recreation Deck taking up Decks 6 and 7 as well as the Gymnasium on Deck 6 are the primary features. Others include the Bowling Alley, Ship's Theatre, and Arboretum as well as various lounges throughout the vessel. The VIP Observation Lounge is located on the forward portside of Deck 6 to provide visiting dignitaries the best view of the orbited planet during diplomatic missions.

Section 3.03 Crew Facilities - Dining

Dining facilities feature an Officer's Dining Room and two Enlisted Mess Halls as well as smaller lounges throughout the ship. Food and Beverages are prepared by protein/carbohydrate synthesizers on Deck 6, and delivered to terminals via a miniature turbolift network. Terminals are also located in the lounges, Security Office and Transporter Rooms. For ceremonial and VIP banquets (the menus for which may not be recorded in the computer), there is a Galley on Deck 6.

Section 3.04 Crew Facilities - Arboretum

The Arboretum concept is tri-functional by design. The primary purpose is as a specimen-repository/display for the Botanical Lab. The secondary purpose is as a recreational venue for off-duty personnel - and as such various benches are placed for relaxation. The final purpose is as an emergency back-up to the vessel's life-support system. Provided light, heat, air and water can be supplied, there is sufficient photosynthetic life within the Arboretum to maintain an Oxygen-Carbon Dioxide ecology/economy indefinitely.

Section 3.05 Crew Facilities - Laundry

Laundry facilities are located on Deck 9. Laundry drop-off terminals are located on all decks with quarters.

Section 3.1 Science Facilities

The Constitution-class starships are outfitted with Science Labs on Deck 6 - a milestone in scientific resources, and represent Starfleet's commitment to exploration. Each consists of a quarantine field, tandem operator's stations/LCARS terminals, and instrument/specimen storage locker. The labs are dedicated to their various disciplines (Exobiology, Astrophysics, etc.) and cannot be transferred without refitting.

Section 3.2 Life Support

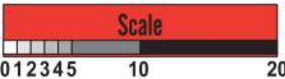
Due to the size of the vessel and crew complement, there are several main Life Support systems, which contain the vessel's atmosphere conditioning systems (Air refresh/recycle, temperature/humidity/ionization control), plus controls for gravitational and inertial damping generators. Additionally, most decks have or share a smaller emergency life support room, which will handle that deck(s) needs should the main system go down.

Section 4.0 Shuttle Facilities

The aft third of the Secondary Hull is dedicated to a Landing Bay, two Shuttle Elevators, and two Parking Bays for embarked craft. The Landing Bay is wide enough to facilitate landing two shuttles side-by-side via tractor beam, and has a mid-bay turntable. A Control Gallery and Viewing Galleries are located on the upper level.

Section 5.0 Cargo Facilities

The mid third of the Secondary Hull is dedicated to a cavernous, three-deck high Cargo Bay. The bays bulkhead-mounted niches can accommodate 96 standard cargo pods in quads. Workbee cargo trains can proceed from the Landing Bay through one of the two shuttlecraft elevators and fly directly to the Cargo Bay to land their consist. As well, should extra shuttle parking be required, up to 8 Class 1 shuttles (or corresponding civilian craft) can be parked on the Cargo Bay deck. Recessed tie-downs and tractor-pressor tethers are built into the Cargo Bay decking - similar to those in the Landing and Parking Bays - as well as the Elevators.



Photon Torpedo Launch Bay

Vertical Jefferies Tube

CONSTITUTION

PROTOTYPE NX-1700

INTERNAL VIEWS SHEET 10/15

SYMBOL CHART

SYMBOL CHART

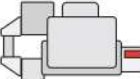
LIFE SUPPORT & FLUID/GAS TANKAGE



Food Synthesizer



Food Synthesizer Raw Material Storage Tank (Organic)



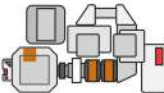
Inorganic Synthesizer



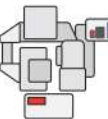
Synthesizer Raw Material Storage Tank (Inorganic)



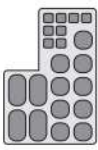
Organic Stasis Containment



Organic Waste Recycler



Atmospheric Recycler

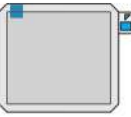


Umbilical Connections and Main Internal Shunts

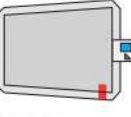
- Deuterium Intake/Outflow (Main Tanks)
- Shuttlebay Consumables Intake/Outflow
- Cryogenic Liquids Intake/Outflow
- Atmospheric External Support Bypass
- Warp Core Coolant Intake/Outflow
- EPS External Supply Conduit
- Replicator Raw Stock Intake/Outflow
- ODN External Connection
- Fresh Water Intake/Outflow



Cryogenic Cooling System



Cryogenic Tank (900 Cubic Meters)



Cryogenic Tank (250 Cubic Meters)



Water Tank (100 Cubic Meters)



Cryogenic Tank (20 Cubic Meters)

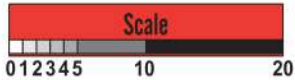
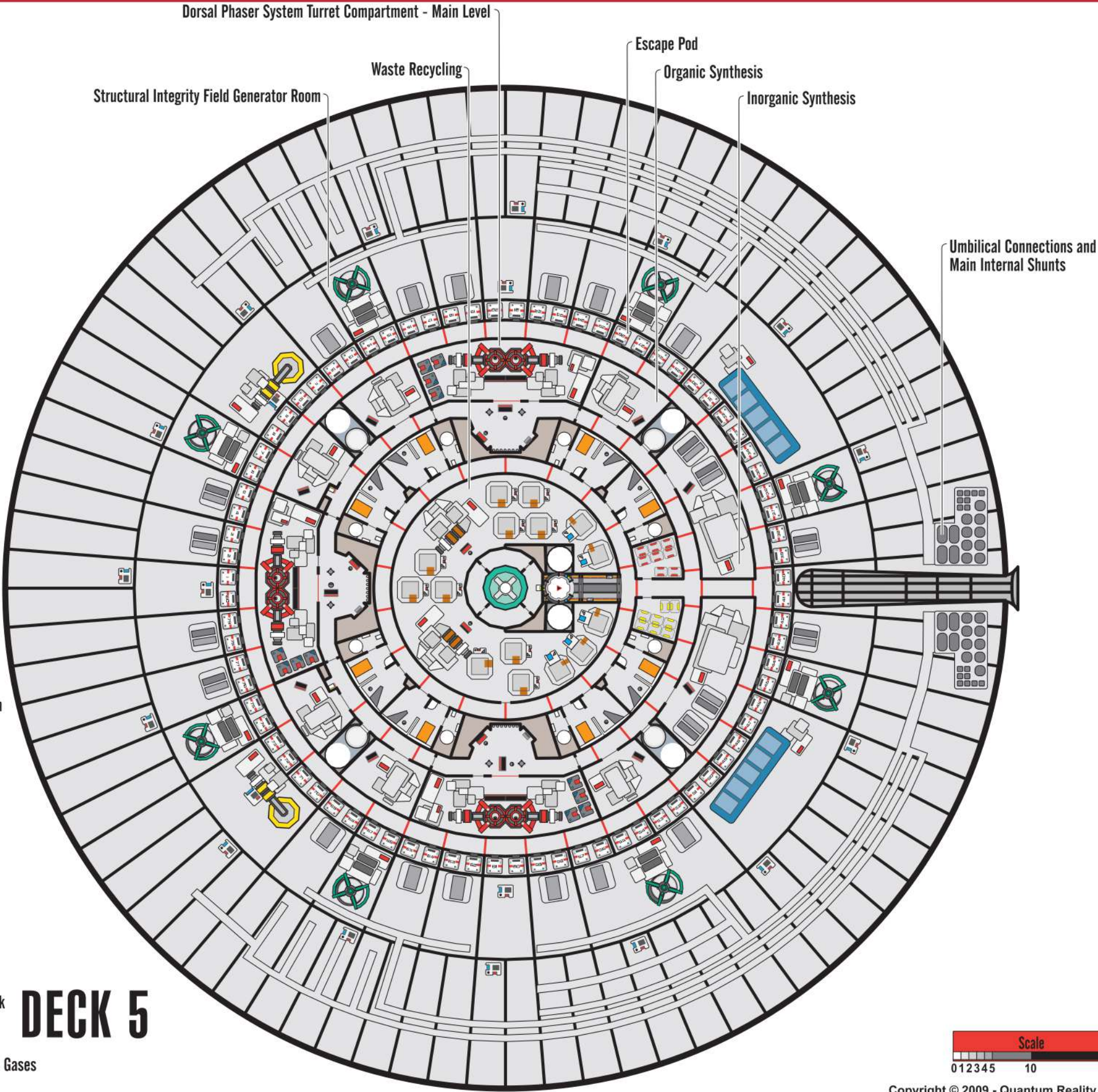


Organic Waste Slurry Tank (20 Cubic Meters)



Cryogenic Tank Oxygen / Nitrogen / Trace Gases (100 Cubic Meters)

DECK 5



CONSTITUTION

PROTOTYPE NX-1700

INTERNAL VIEWS SHEET 11/15

SYMBOL CHART

SYMBOL CHART

AUXILIARY ENGINEERING - MISC. SYSTEMS

- 

Jeffries Tube (Horizontal)
- 

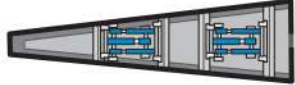
Jeffries Tube (Vertical)
- 

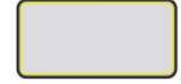
Jeffries Tube (Diagonal - Nacelle Pylon)
- 

Hull-to-Hull Explosive Bolt Connection
- 

Vertical Turboshaft
- 

Horizontal Turboshaft
- 

Turbolift Station
- 

Landing Pad & Armature (Retracted)
- 

Shuttle Elevator
- 

Damage-Control Containers
- 

Emergency Supply Containers
- 

Misc. Shipwide ODN Distribution Areas
- 

Gravity Gradient Plane
- 

Structural Support
- 

One Person Ladder
- 

Three Person Ladder
- 

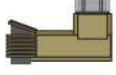
One Person Lift

DEFENSE SYSTEMS

- 

Phaser Emitter Turrets Covers
- 

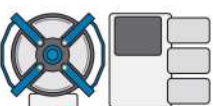
Phaser Firing Chambers
- 

Photon Torpedo Transverse Conveyor
- 

Photon Torpedo Launch Tube
- 

Photon Torpedo/Probe Magazines
- 

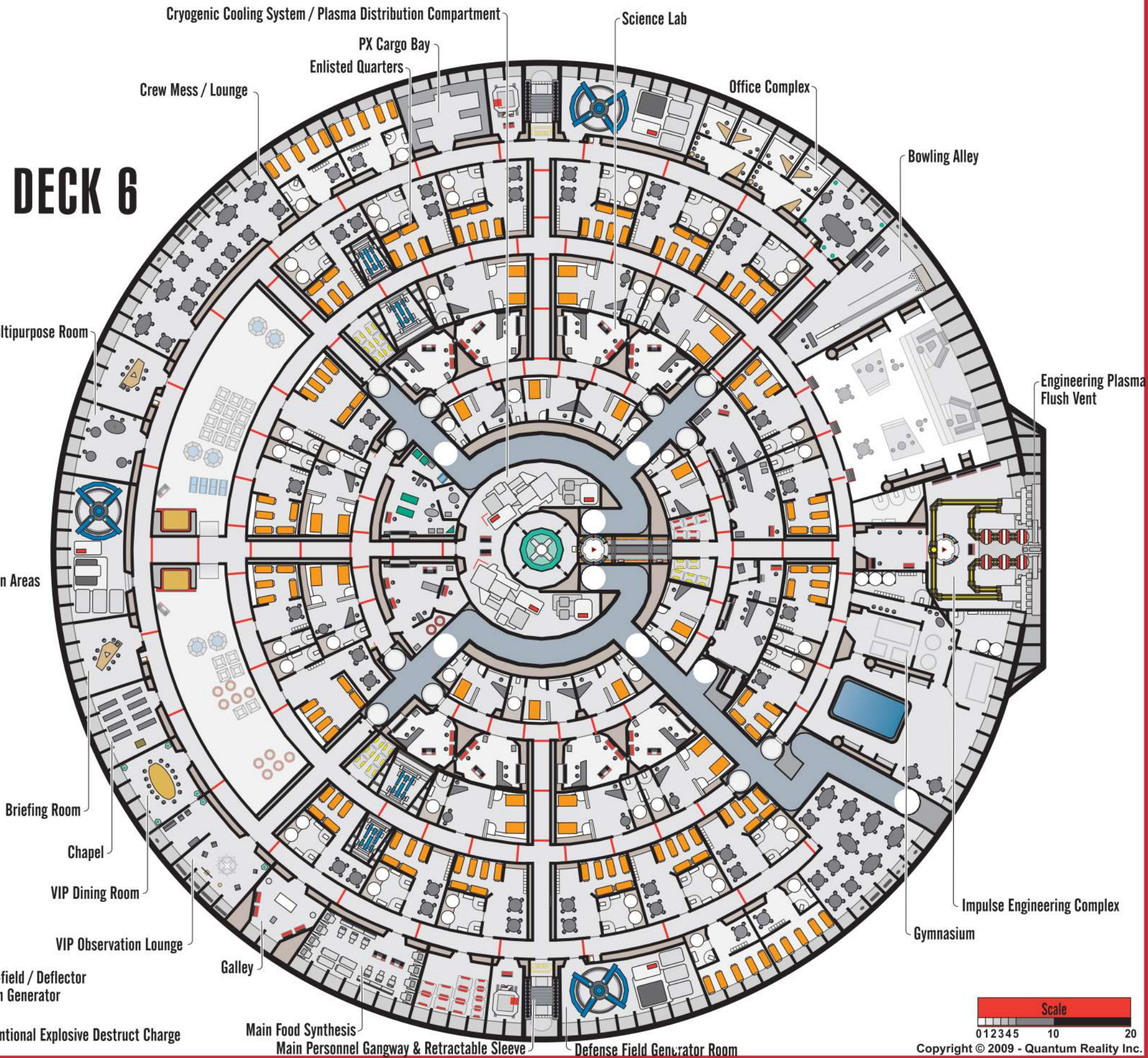
Photon Torpedo & Probe Casing

- 

Force-field / Deflector Screen Generator
- 

Conventional Explosive Destruct Charge

DECK 6

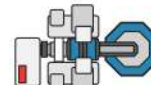


CONSTITUTION

PROTOTYPE NX-1700
INTERNAL VIEWS SHEET 12/15
SYMBOL CHART

SYMBOL CHART

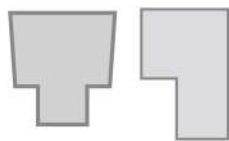
COMMUNICATIONS & TRANSPORTER SYSTEMS

-  Subspace Radio Transceiver
-  EM Radio Transceiver
-  Transporter Transceiver
-  Transporter Buffer
-  Transporter Pad (6-personnel)
-  Transporter Pad (Emergency 22-personnel)
-  Transporter Pad (Cargo)

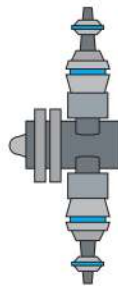
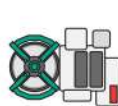
INFORMATION SYSTEMS

-  Computer Core
-  Navigation Sensor Array
-  Ventral Tactical Sensor Array
-  Long Range Sensor Array

EXTERNAL MARKINGS

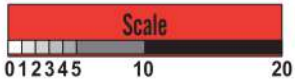
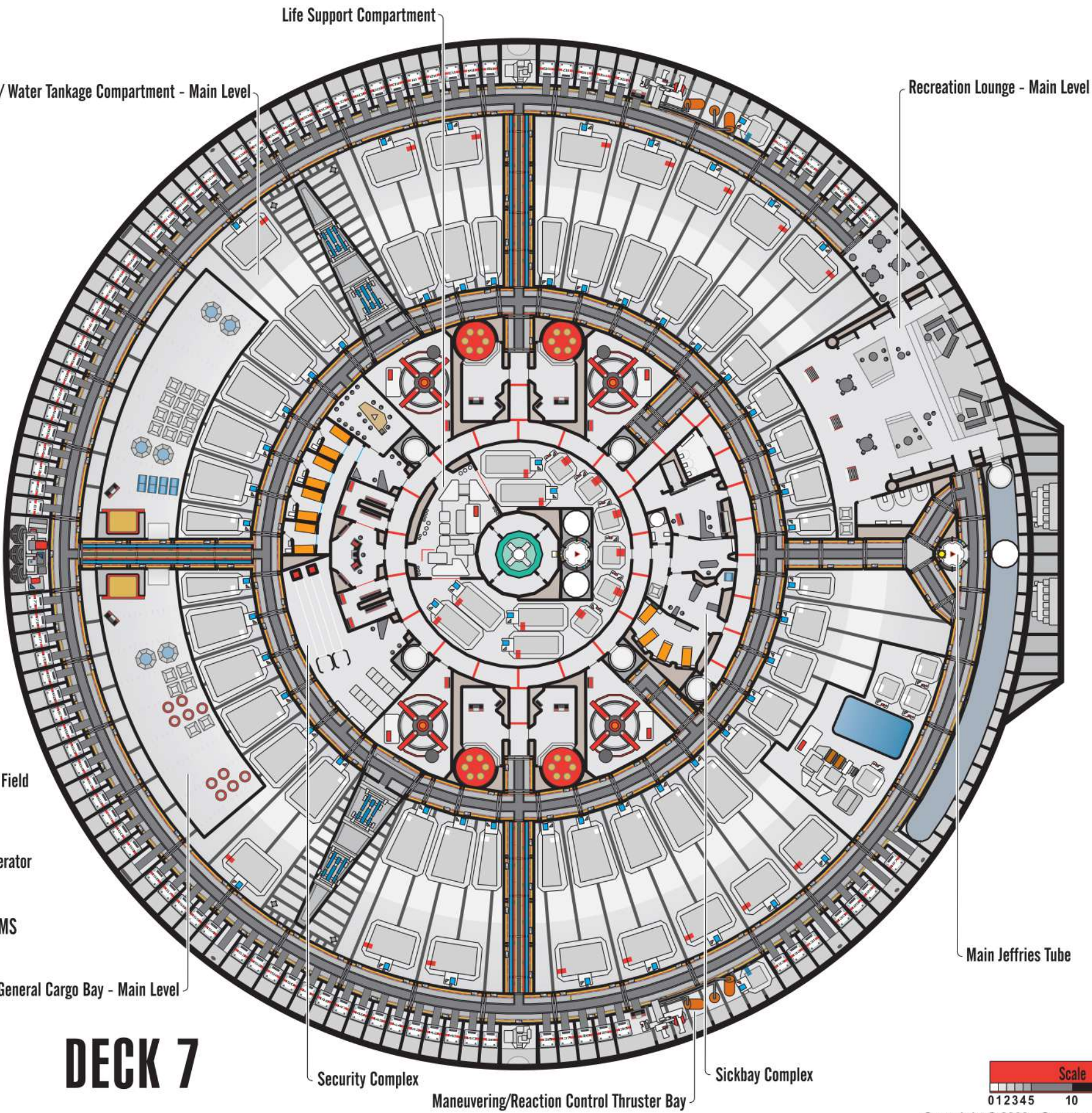
-  Tractor Beam Emitter Cover
-  Umbilical Connections Access

GRAVITONIC SYSTEMS

-  Deflector Generator
-  Engineering Insulating Force Field Generator
-  Structural Integrity Field Generator

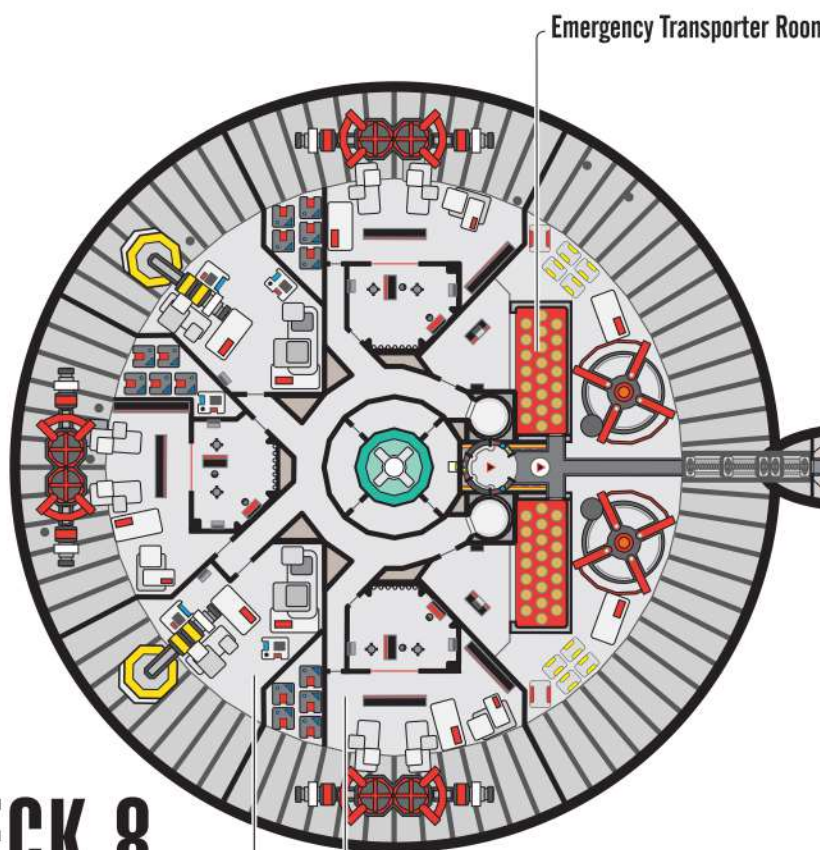
MAIN ENGINEERING - ELECTRO-PLASMA SYSTEMS

-  EPS Relay
-  EPS Distribution Node
-  Cold Fusion Battery Bank



DECK 8

Plasma Relay / Transporter
Transceiver Bay
Ventral Phaser System Turret Compartment

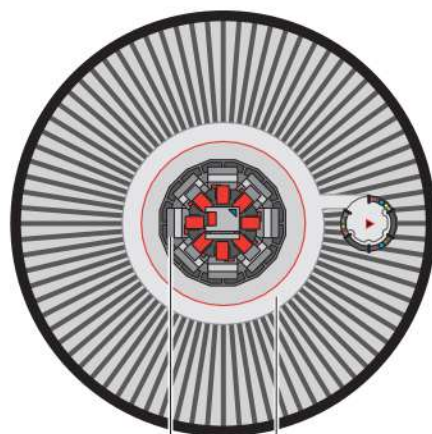


Emergency Transporter Room

DECK 10

Ventral Tactical Scanner Suite

Catwalk



DECK 11



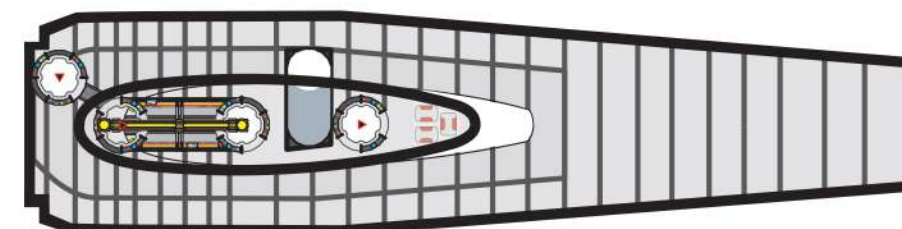
DECK 12



DECK 13

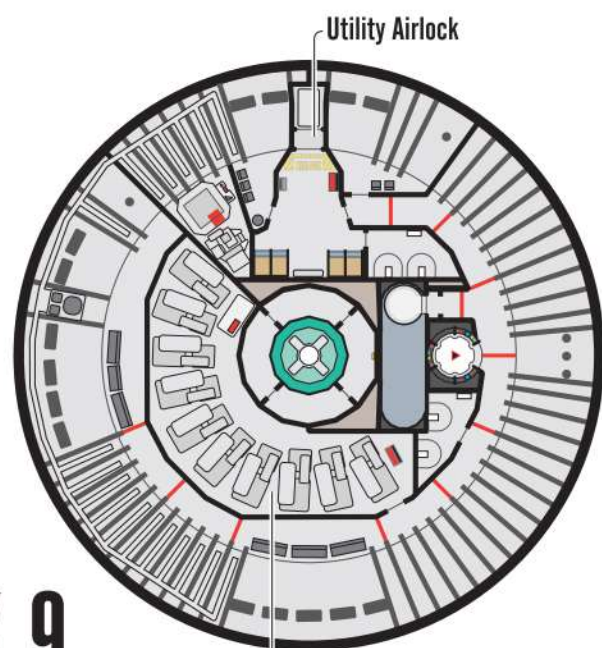


DECK 14



DECK 9

Laundry Bay



Utility Airlock

CONSTITUTION

PROTOTYPE NX-1700
INTERNAL VIEWS SHEET 13/15

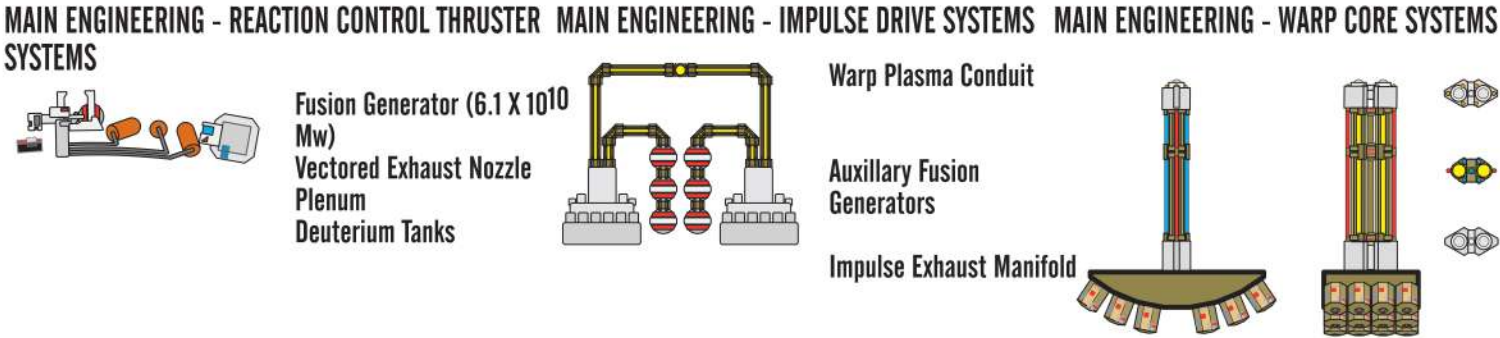
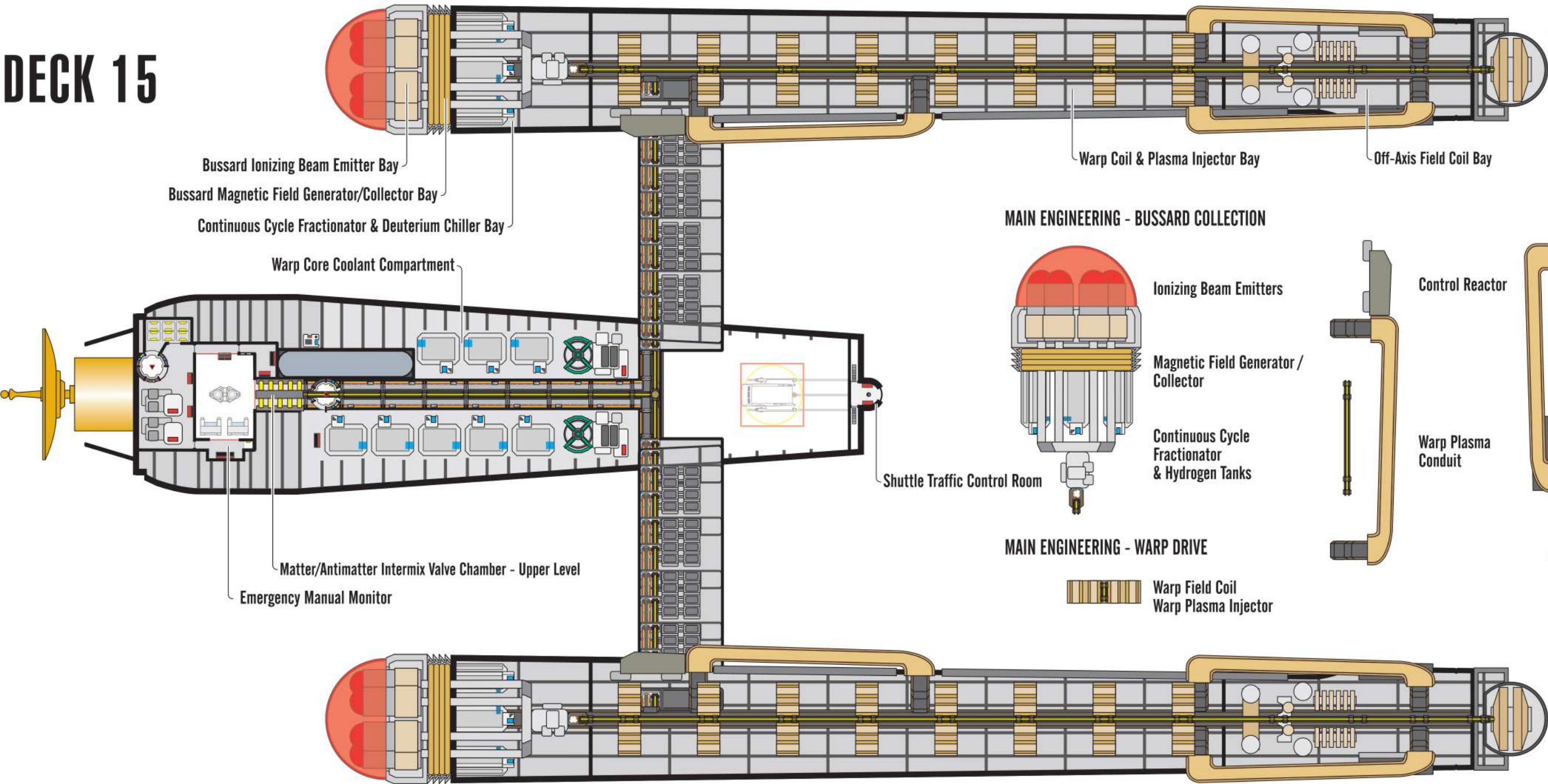
Pylon Observation Lounge



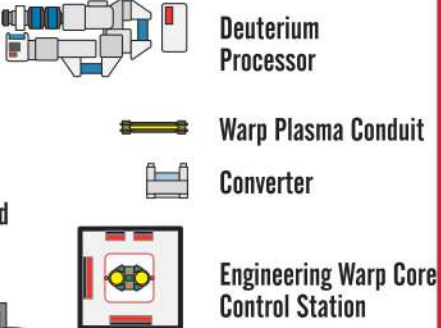
CONSTITUTION

PROTOTYPE NX-1700
INTERNAL VIEWS SHEET 14/15
SYMBOL CHART

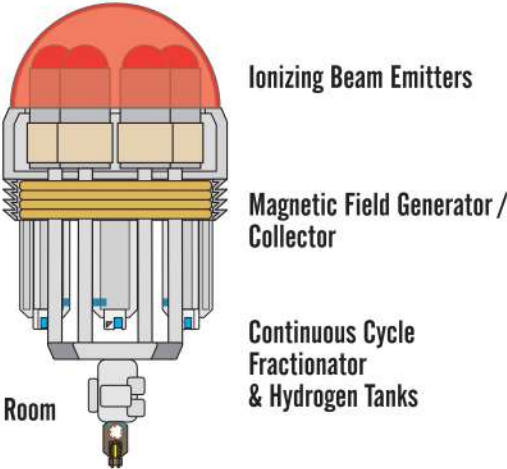
DECK 15



SYMBOL CHART



MAIN ENGINEERING - BUSSARD COLLECTION



MAIN ENGINEERING - WARP DRIVE

