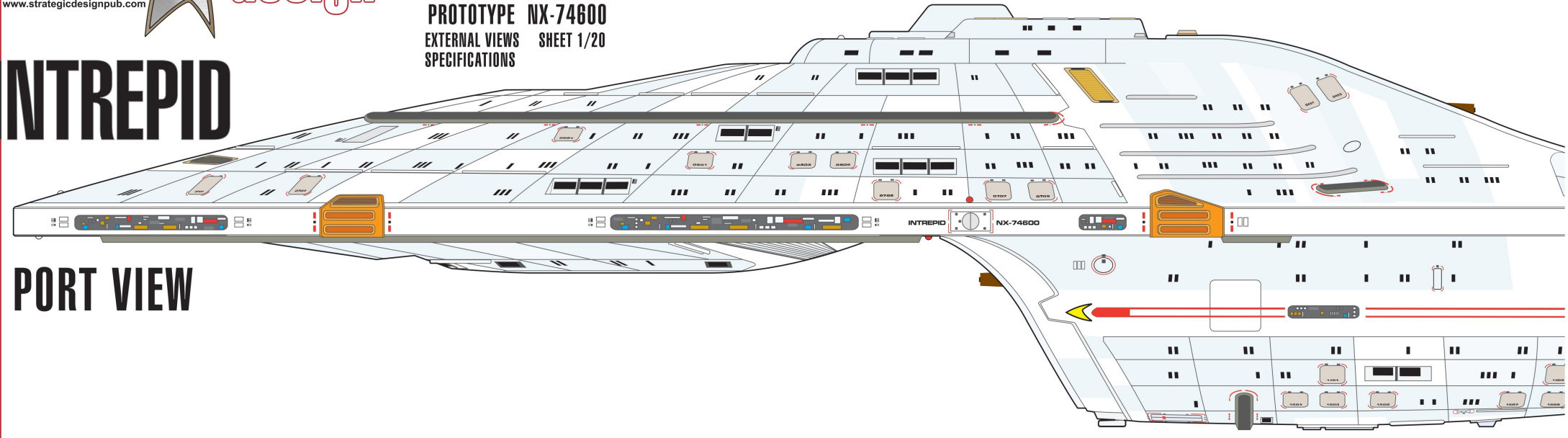
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INTREPID

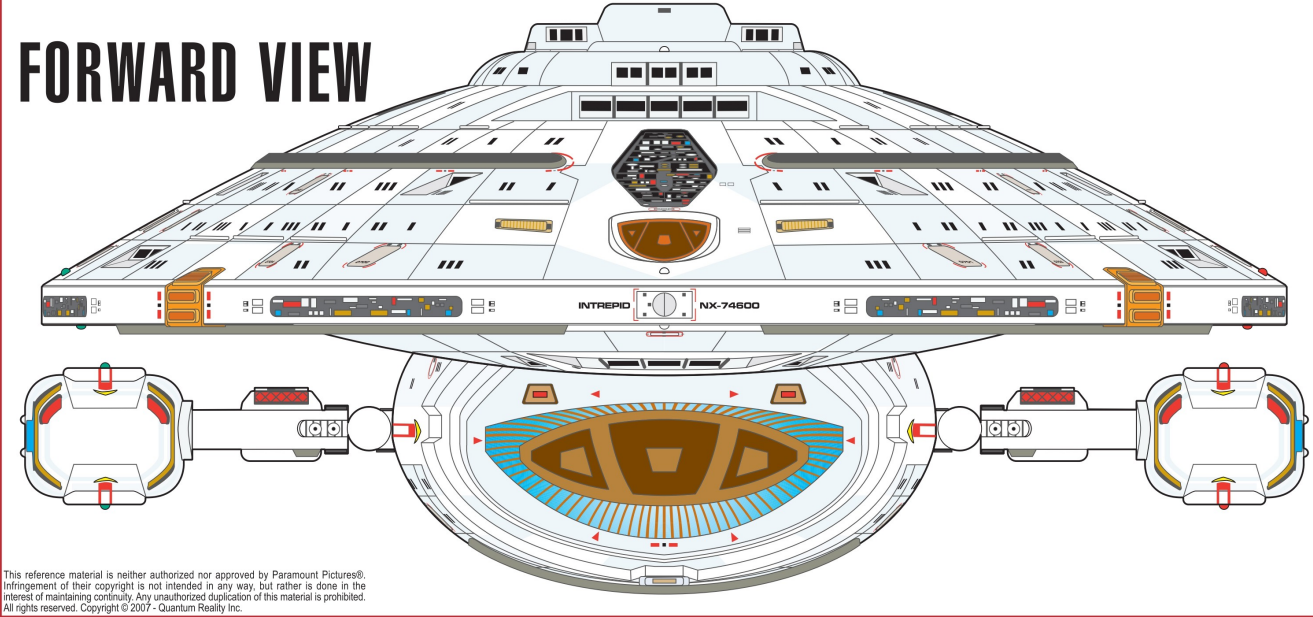
PROTOTYPE NX-74600

EXTERNAL VIEWS SHEET 1/20
SPECIFICATIONS

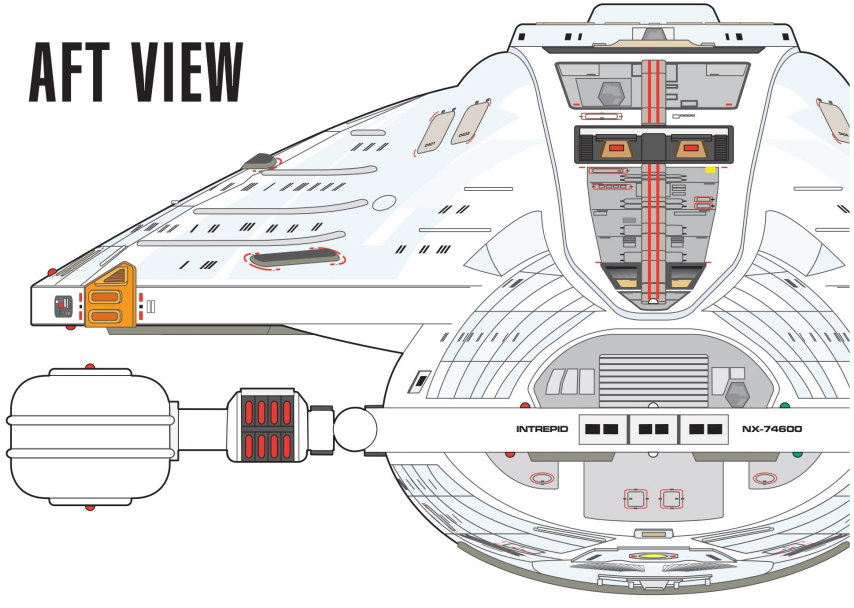
PORT VIEW



FORWARD VIEW

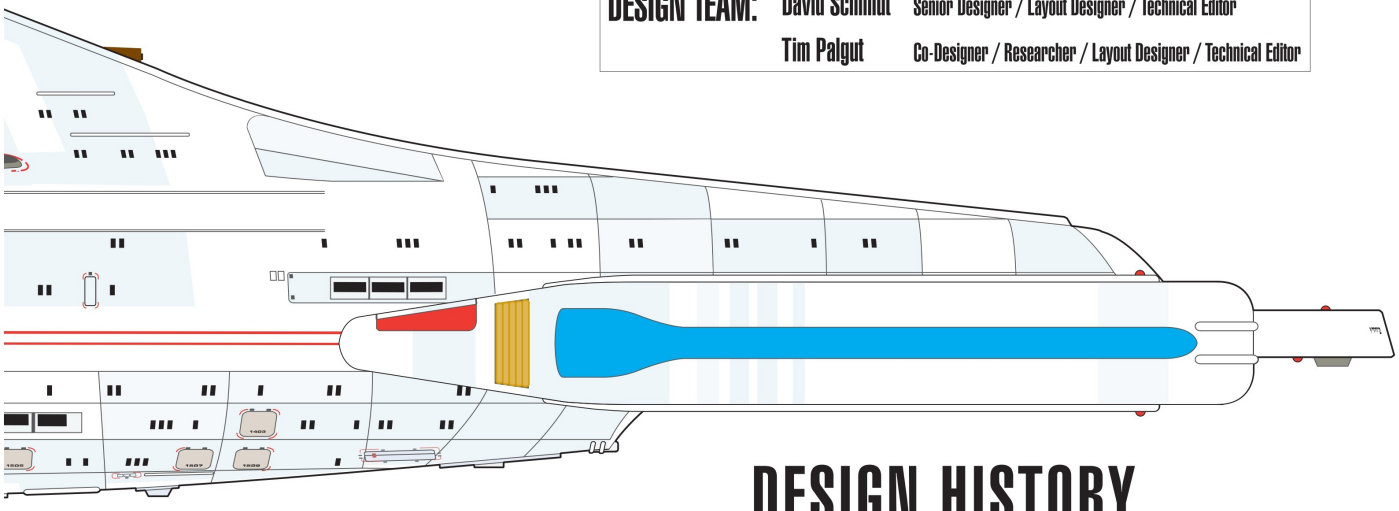


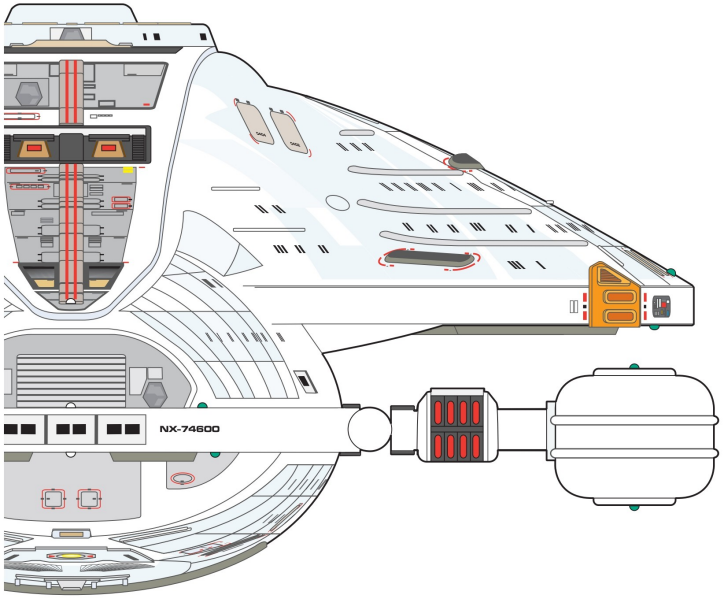
AFT VIEW



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DESIGN TEAM: David Schmidt — Senior Designer / Layout Designer / Technical Editor
Tim Palgut — Co-Designer / Researcher / Layout Designer / Technical Editor





DESIGN HISTORY

Project Intrepid was first proposed by Starfleet Command to the Federation Council in 2360 as an exploration vessel to supplement the Galaxy Class - nearing completion at the time. As such it would replace the the aging Excelsior Class. The proposed specifications and capabilites were far superior to that of the Excelsior-class, as the latter - albeit continuously upgraded with newer technologies throughout the decades of their refits - reflected the lack of flexibility inherent when state-of-the-art systems are installed within older vessels not designed to make maximum usage of them. In 2256 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 then-untried 'Hybrid Hull' - which would eventually be utilized in the design of the Sovereign Project.

The Intrepid-Class Exploration Cruiser incorporated an outstanding array of sensors, full phaser coverage, and high warp cruising ability. Perhaps the most innovative of the design's features were variable-geometry warp nacelles. It was long recognized that warp fields needed different configurations for optimal performance at different speeds. Traditionally, starships achieve these configurations by "forcing" their hardware, using different injection angles in the warp nacelles. Engineers with the Strategic Design and Tactical Group developed a unique approach method: move the nacelle to fit the configuration demanded. The motion is hardly noticeable, ranging from thirty to thirty-four degrees, but the improvement in efficiency (and resultant lessening of spaceframe stress) is dramatic.

Another major improvement over previous designs is the improved impulse engines, capable of increased sublight tactical maneuvering, Their power necessitated relocation from the traditional dorsal surface to the warp nacelle pylons, which in turn required that the pylons be lowered to horizontal when the ship is in impulse mode. The ship's complement was reduced somewhat, and a prototype Emergency Medical Hologram system was installed.

The first spaceframe components of the class' lead ship were gamma-welded at the Utopia Planitia Fleet Yards in 2363. On 09 November 2368, U.S.S. Intrepid (NX-74600) was launched from Utopia Planitia. She immediately began shakedown trials in the home sectors, being formally commissioned on 30 July 2369. Intrepid has the distinction of being the only starship not under the auspices of the Warp Travel Restriction Act of 2370. Her variable geometry nacelles avoid the subspace damage that traditional starships produced. Lessons learned from Intrepid made retrofits of existing starships possible, allowing the negation of the Act in 2371.

SPECIFICATIONS

PARTICULARS

Vessel Class	Intrepid
Identification	NX-74600
Type	Exploration Cruiser

SPACEFRAME

Overall Length	344 meters
Overall Beam	130 meters
Overall Draft	63 meters
Decks	15
Displacement	7.0 X 10^5 tons

WARP SYSTEMS

Power	Matter / Antimatter Reactor (2.1 X 10^8 terawatt)
Cruising Speed	wf 6.0
Flank Speed	wf 9.975 (Sustainable for 12 hours)
Burst Speed	wf 9.995 (Sustainable for 1 hour)

IMPULSE SYSTEMS

Power	2 - Primary - Deuterium Fusion Reactor (1.25 X 10^{11} megawatt)
	2 - Secondary - Deuterium Fusion Reactor (8.1 X 10^{10} megawatt)
Vector Nozzle	2 (one per nacelle support pylon)
Cruising Speed	0.25 c
Flank Speed	0.92 c

TACTICAL SYSTEMS

Phaser	13 - Type X Strip
Torpedo Tube	2 Fore / 2 Aft - Type 3f (burst fire)
Magazine	80 Mark VI Photon Torpedoes
	20 Class 1-9 Probes
Grid	11 Deflector Shield Generator
	(rated 1.15 X 10^3 mw - standby / 2.69 X 10^3 mw - alert /
	4.73 X 10^6 mw - 0.0017 Sec.)
	7 Primary Structural Integrity Field Generator (rated 1.15 X 10^3 mw)
	2 Secondary Structural Integrity Field Projector (rated 2.3 X 10^3 mw)
Deflector	1 - Primary- forward (2.40 X 10^2 megawatt - 250 millicochrane)
	1 - Secondary - forward (1.10 X 10^2 megawatt - 115 millicochrane)
Tractor Beam	Main - 1 Fore / 1 Aft (16 megawatt - 450 millicochrane)
	1 Shuttlebay (internal)

CREW & AUXILLARY SYSTEMS

Complement	30 Officers
	120 Enlisted
Transporters	4 6-personnel
	2 22-personnel Emergency
	2 Cargo

INFORMATION SYSTEMS

Computer Core	4 (2 Primary / 2 Secondary)
	Isolinear Optical Chip
	Transtator FTL Nanoprocessors
	Bioneural Gelpack Subprocessors

Scale
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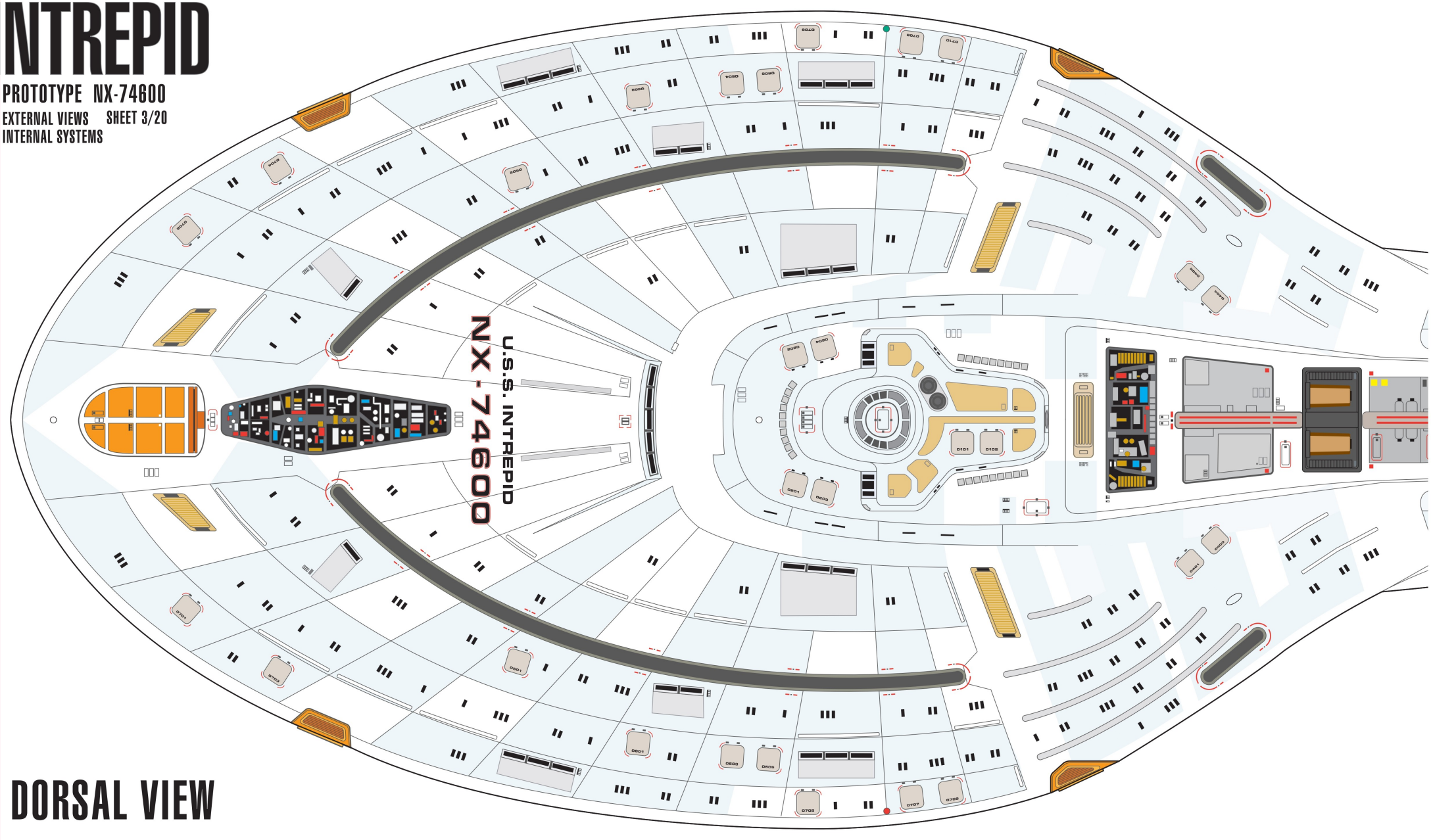
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INTREPID

PROTOTYPE NX-74600

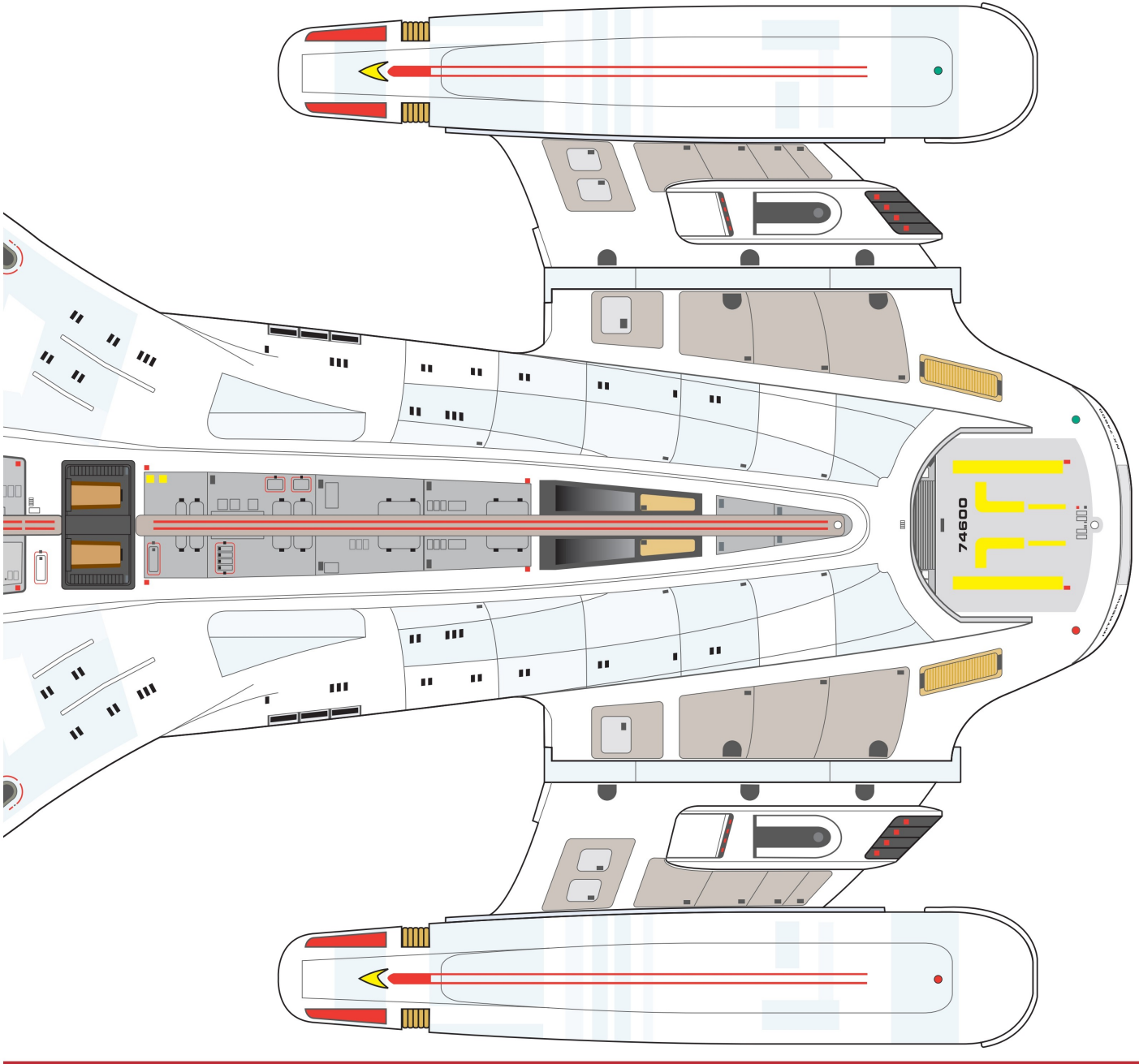
EXTERNAL VIEWS SHEET 3/20

INTERNAL SYSTEMS



DORSAL VIEW

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INTERNAL SYSTEMS

SECTION 1.0 SPACECRAFT STRUCTURE

The spaceframe of the Intrepid-class starship is tritanium/duranium macrofilament truss frames, averaging 0.65 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 hall junctions, and at the turbolift shafts, measuring 0.25 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.

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 two main field generators on Deck 4, two secondary field generators on Deck 8, and two secondary type field generators are located in the pylons, used strictly for low level continuous-duty there. Each consists of a pair of 2 megawatt graviton polarity sources. These feed a pair of 150 millicochrane subspace field distortion amplifiers. Any two units are capable of supporting the entire SIF grid at 100% for 48 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 150,000% of their usual tensile strength. In addition to the waveguides within the internal spaceframe, there is a series of SIF emitters on the hull.

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 75 millicochrane field generators.

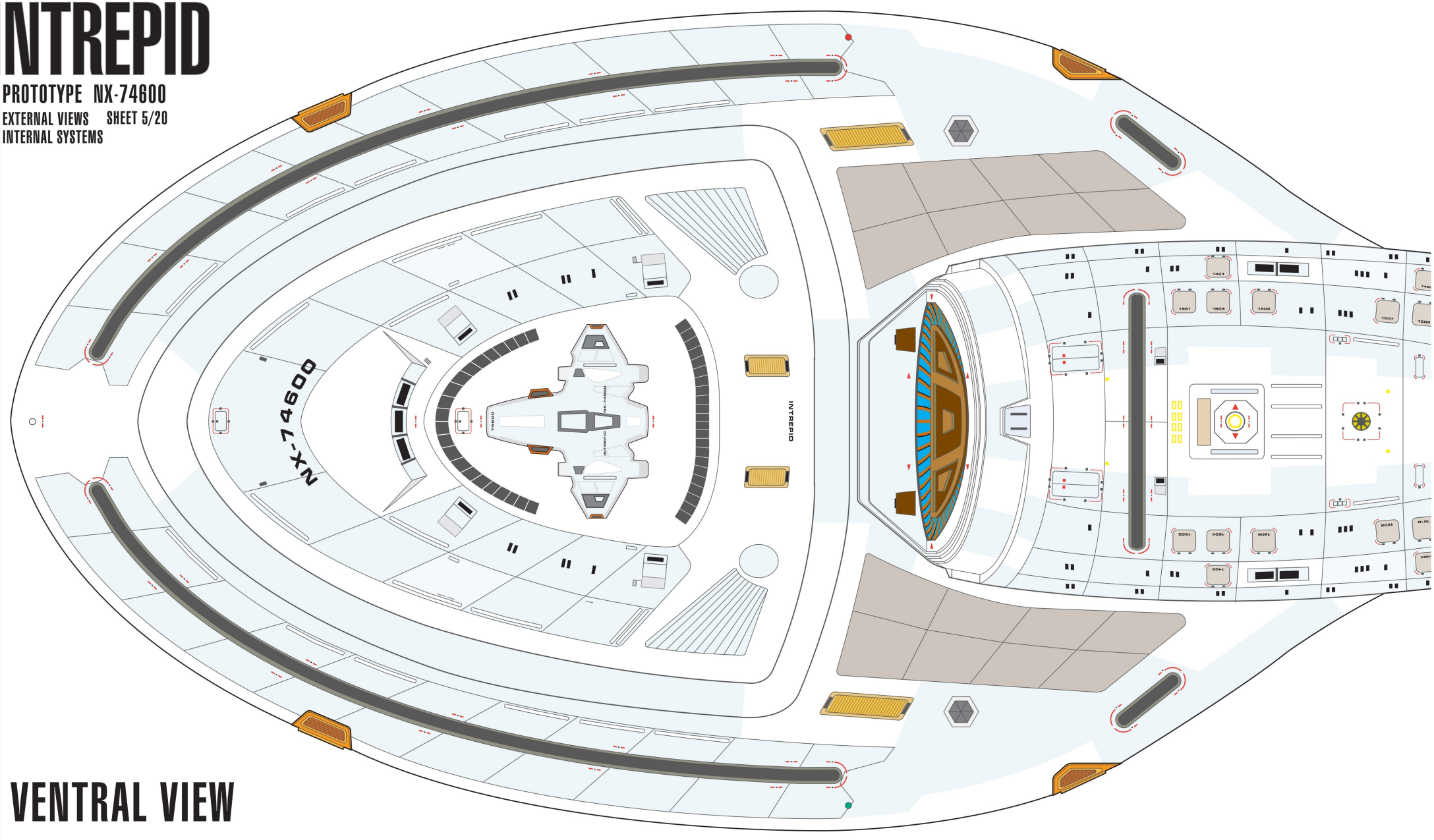
Scale
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INTREPID

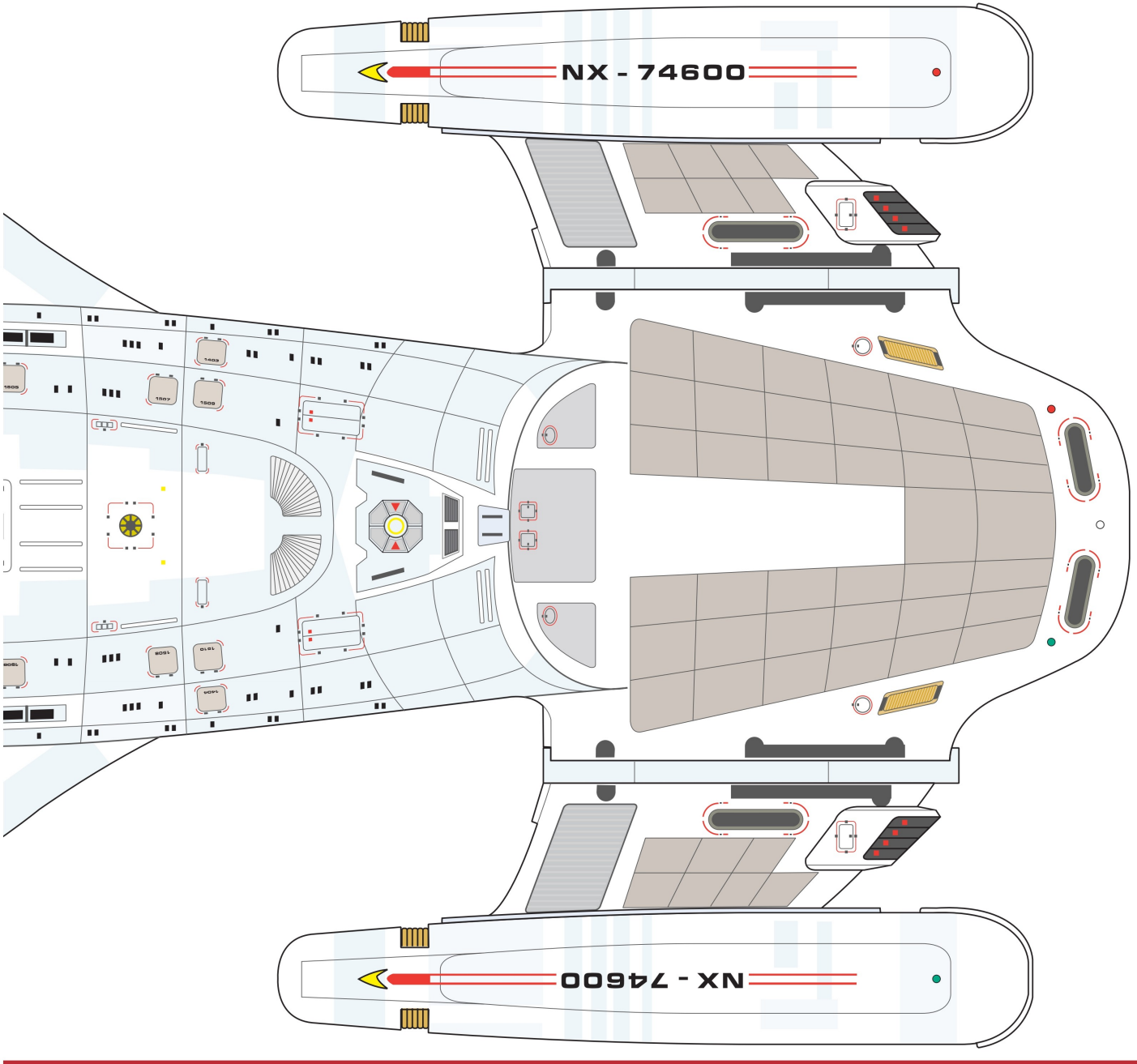
PROTOTYPE NX-74600

EXTERNAL VIEWS SHEET 5/20
INTERNAL SYSTEMS



VENTRAL VIEW

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INTERNAL SYSTEMS CONTINUED

SECTION 2.0 COMPUTER SYSTEMS

The Main Computer Cores (MCC) are located on Decks 10 through 12 in the Engineering hull. The MCCs consist of 672 dedicated modules of 144 isolinear optical storage chips, which, under LCARS control provide dynamic access at a rate of 4,800 kiloquads/sec. The total storage capacity for each module is 64,000 to 128,000 kiloquads, depending on software configuration and data compression rates. The two Secondary Computer Cores (SCC) are located on Decks 6 and 7 in the primary hull, and can take over from the Main Computer Cores with the loss of non-critical functions, such as the holodeck. The SCCs consist of 224 dedicated modules of 144 isolinear optical storage chips, with the same characteristics as the MCCs modules. Both the MCCs and SCCs are joined to the Optical Data Network (ODN) by triple redundant Micron Junction Links (MJL) on each module. The usual 12% Doppler loss in transmission has been reduced to 5.5% by the use of Bio-Neural Circuitry replacing 35% of the optics in the ODN. Bio-Neural Circuitry (BNC), also know as gel-packs, have the ability to organize, process, and transmit complex information faster than the ODN can with pure optics. BNCs are made from synthetic neural cells designed explicitly for data processing. They are also the main part of the Sub-Processors Nodes (SPN) located on the Bridge, Engineering, Sickbay, and emergency shelters throughout the ship. These SPNs can run the entire ship for 8 hours in the event of complete loss of all MCCs and SCCs. 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 2.1 INFORMATION GATHERING SYSTEMS

Information gathering systems are divided into sensors (passive energy/field detecting/analyzing) and scanners (active energy/field emitting-reflection dectecting/analyzing systems). Each of these is further subdivided into long-range (faster-than-light) and short-range (lightspeed). Omni-directional packages are generally mounted on sensor pallets - which are located on the vessel's dorsal and ventral Z-axis poles as well as along the vessel's z-axis equator. Directional packages (including tactical scanners) are mounted along the vessel's x-axis - fore and aft.

SECTION 3.0 CREW FACILITIES - QUARTERS

Crew quarters have been standardized for the past half-century, and are modular. Enlisted quarters consist of 2 compartments (sleeping area and dining/relaxation area), plus closet and head. Officer quarters consist of 3 compartments (sleeping area, dining area, and relaxation area), plus closet and head. Senior Officer quarters consist of 4 compartments (sleeping area, dining area, relaxation area, social/office area), plus closet and head. V.I.P. quarters are similar to Senior Officer quarters, but are somewhat roomier and more elegantly appointed.

SECTION 3.1 SCIENCE FACILITIES

The Intrepid-class starships are outfitted with 16 Type 1 Science Labs, consisting of an office area, independent computer micro-core, research area/kiosk equipped withcircular quarantine field, tandem operator's stations/LCARS terminals, and instrument/specimen storage locker. As well there are 2 Diagnostics & Repair Engineering Workshop/Labs, similar to the Type 1 lab but also holding an engineering worktable. Two Medical Labs are contained within the Sickbay Complex. A pair of Type 2 Labs (Stellar Cartography and Astrometrics - specially-outfitted for holographic display) completes the list.

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.

Scale
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INTREPID

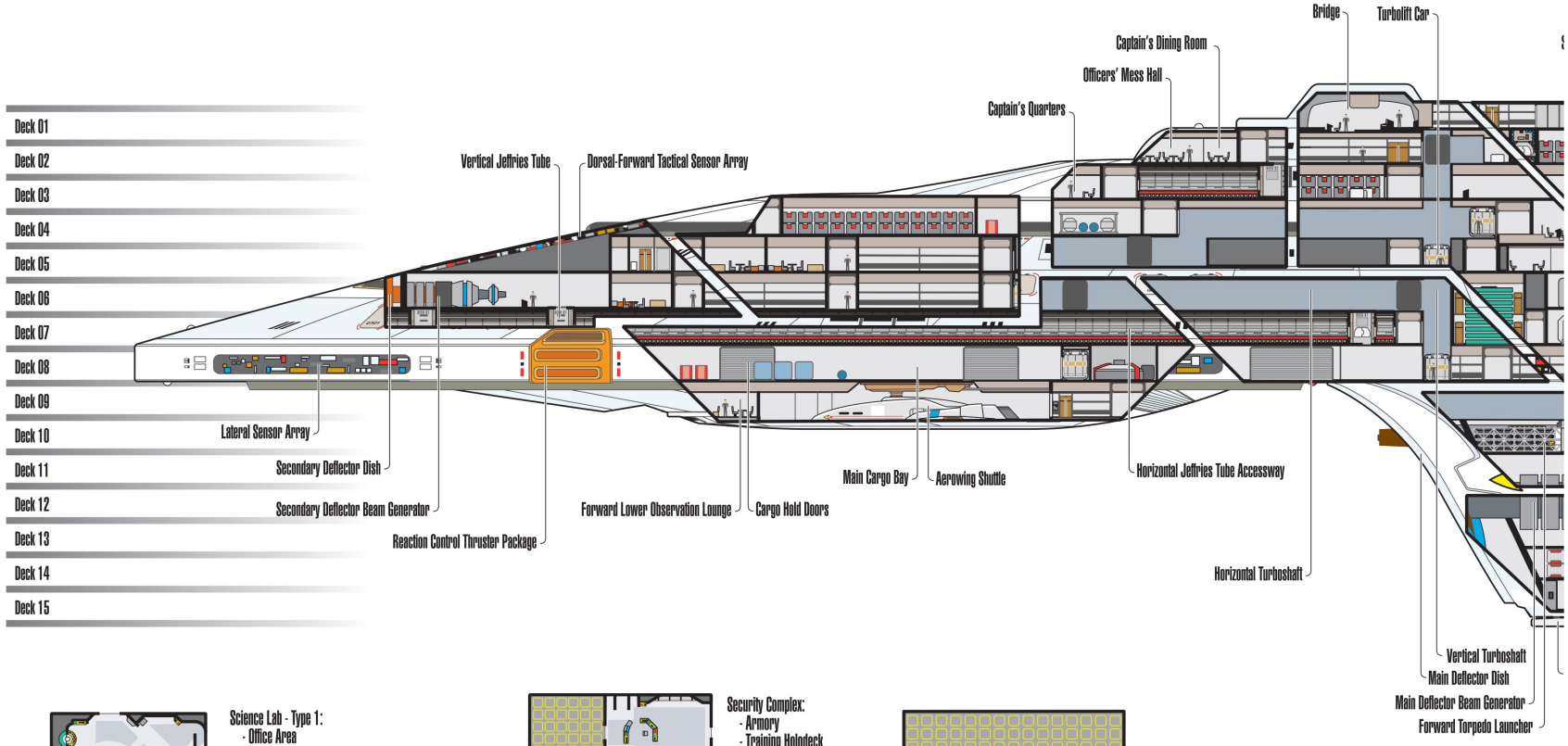
PROTOTYPE NX-74600

EXTERNAL VIEWS SHEET 7/20

SPECIFICATIONS

DESIGN HISTORY

CROSS-SECTION

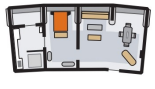


SYMBOL CHART

AUXILLARY ENGINEERING - COMPARTMENTS



Captain's & Vip Quarters:
- Sleeping Area
- Relaxation Area
- Lounge & Work Area
- Dining Area
- Closet
- Head



Senior Officers' & Vip Quarters:
- Sleeping Area
- Relaxation Area
- Lounge & Work Area
- Dining Area
- Closet
- Head



Junior Officers' Quarters:
- Sleeping Area
- Lounge & Dining Area
- Head
- Closet



Junior Officers' Quarters:
- Sleeping Area
- Lounge & Dining Area
- Head
- Closet



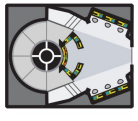
Enlisted Quarters:
- Sleeping Area
- Lounge & Dining Area
- Head
- Closet



Office



Science Lab - Type 1:
- Office Area
- Research Area
- Operators' Stations
- Independent Computer Core



Science Lab - Type 2:
- Holographic Projection Stage
- Operators' Stations
- Research Stations



Diagnostics & Repair Engineering Workshop / Lab:
- Office Area
- Work Table
- Research Area
- Operators' Stations
- Independent Computer Core



Sickbay Complex:
- Containment Area
- 1 Surgical Bed
- 3 Diagnostic Beds
- Replicator
- Doctor's Office
- Medical Lab
- Morgue
- Head
- Medical Stores

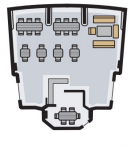
Security Complex:
- Armory
- Training Holodeck



- Brig & Monitoring Room
- Locker Room
- Briefing Room



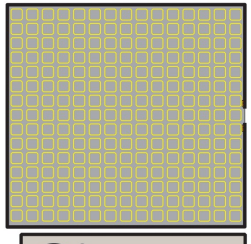
Lounge



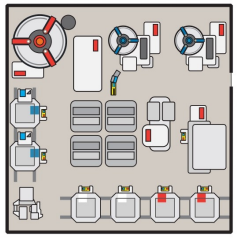
Officers' Mess:
- Lounge Area
- Dining Area
- 2 Replicators
- Captain's Dining Room



Head



Holodeck Complex:
- Holodeck Stage

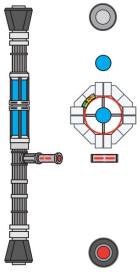


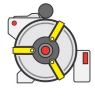
- Processor Node/Control
- Buffer
- Power Unit/EPS Tap
- Force-field Generator
- Inorganic Replicator
- Water Tankage
- Atmospheric Recycler
- Cryogenic Tankage



Engineering Substation

MAIN ENGINEERING - WARP CORE SY

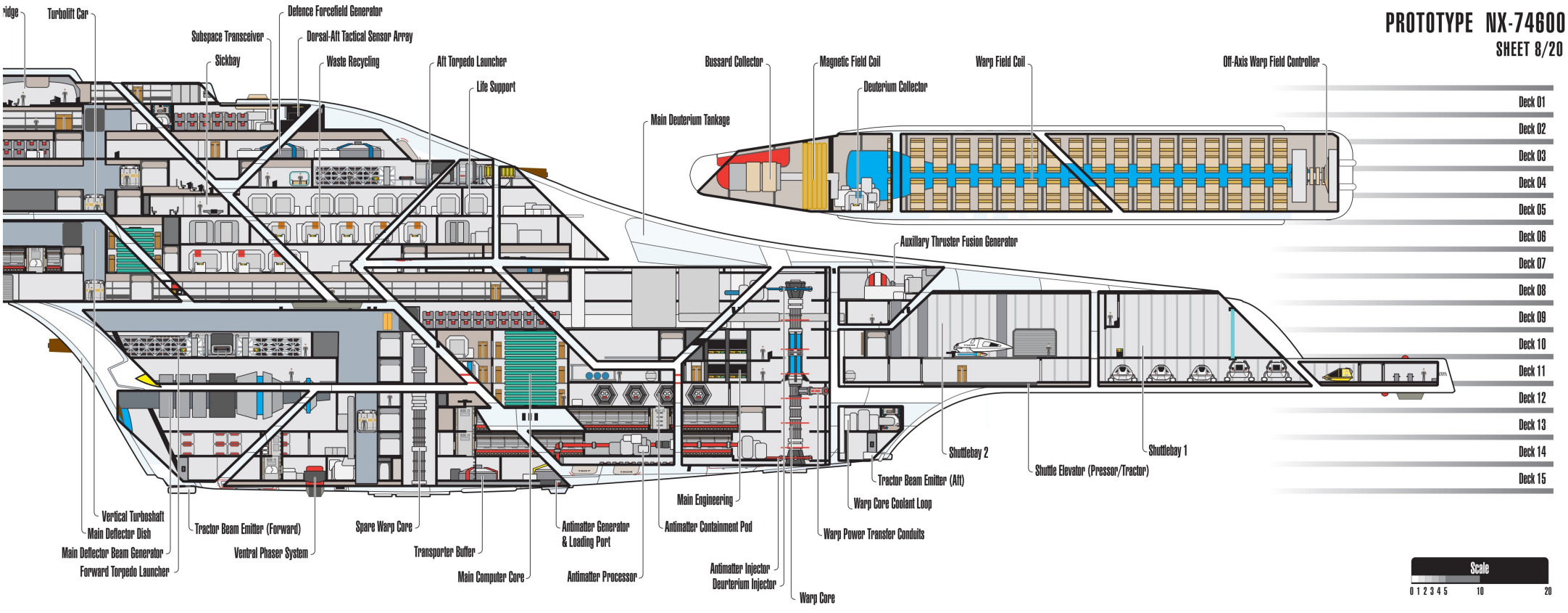




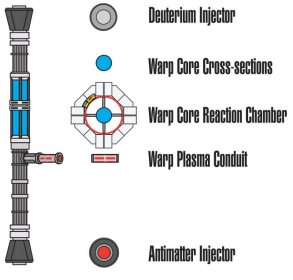
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PROTOTYPE NX-74600

SHEET 8/20



MAIN ENGINEERING - WARP CORE SYSTEMS



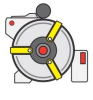
Deuterium Injector

Warp Core Cross-sections

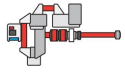
Warp Core Reaction Chamber

Warp Plasma Conduit

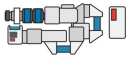
Antimatter Injector



Antimatter Loading Distributor & Emergency Generator



Antimatter Processors
Antimatter Conduit



Deuterium Processor



Warp Core Coolant Cycler

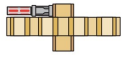


Deuterium Pump

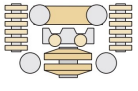


Antimatter Containment Pod

MAIN ENGINEERING - WARP DRIVE SYSTEMS



Warp Plasma Conduit
Warp Field Coil
Warp Plasma Injector



Off-Axis Field Generator

MAIN ENGINEERING - ELECTRO-PLASMA SYSTEMS



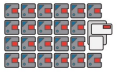
EPS Relay



EPS Distribution Node

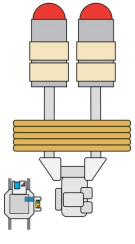


EPS Phaser Distribution Node



Cold Fusion Battery Bank

MAIN ENGINEERING - BUSSARD COLLECTION SYSTEMS

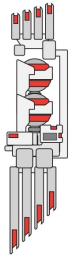


Ionizing Beam Emitters

Magnetic Field Generator / Collector

Continuous Cycle Fractionator & Hydrogen Tanks

MAIN ENGINEERING - IMPULSE DRIVE SYSTEMS



(Forward-facing)
Impulse Exhaust Manifold
Deuterium Tank

Tandem Fusion Generators
(8.1×10^{10} Mw)

(Aft-facing)
Impulse Exhaust Manifold

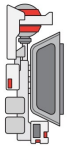
MAIN ENGINEERING - MANEUVERING THRUSTER SYSTEMS



Fusion Generator
(8.1×10^{10} Mw)

Exhaust Nozzles

MAIN ENGINEERING - REACTION CONTROL THRUSTER SYSTEMS



Fusion Generator
(8.1×10^{10} Mw)

Vectored Exhaust Nozzle Plenum

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INTREPID

PROTOTYPE NX-74600

INTERNAL VIEWS SHEET 9/20

SYMBOL CHART

SYMBOL CHART

AUXILLARY ENGINEERING - CONSOLES & STATIONS

- Bridge Consoles
- Free-standing Consoles
- Wall-mounted Consoles
- Desk
- Replicator Station

ESCAPE

- Escape Pod
- Escape Pod Niche & Cover

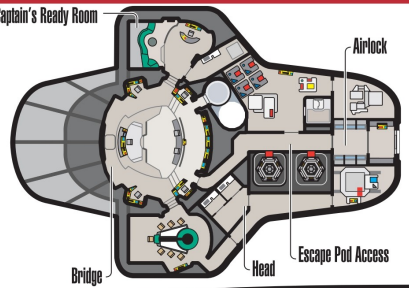
AUXILLARY ENGINEERING - EXTERNAL FEATURES & MARKINGS

- Radiation Hazard
- Equipment Access Panel
- Navigation Beacon
- External Personnel Access Hatch

AUXILLARY ENGINEERING - INFORMATION SYSTEMS

- Computer Core
- Navigation Sensor Pallets
- Aft-Dorsal Tactical Sensor Array - (External Sensor / Scanner Heads)
- Aft-Dorsal Tactical Sensor Array - (Subsystems)
- Lateral Sensor Array - (External Sensor / Scanner Heads)
- Lateral Sensor Array - (Subsystems)
- Forward-Dorsal Tactical Sensor Array - (External Sensor / Scanner Heads)
- Forward-Dorsal Tactical Sensor Array - (Subsystems)

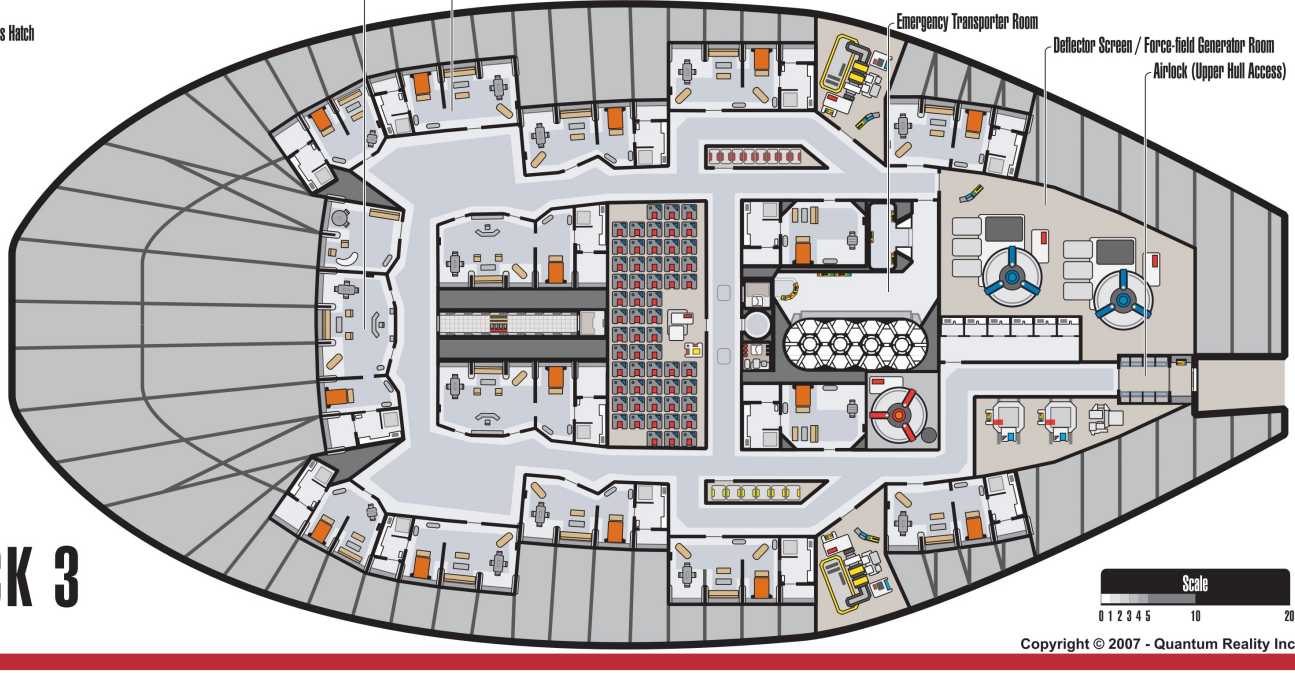
DECK 1



DECK 2



DECK 3



Scale

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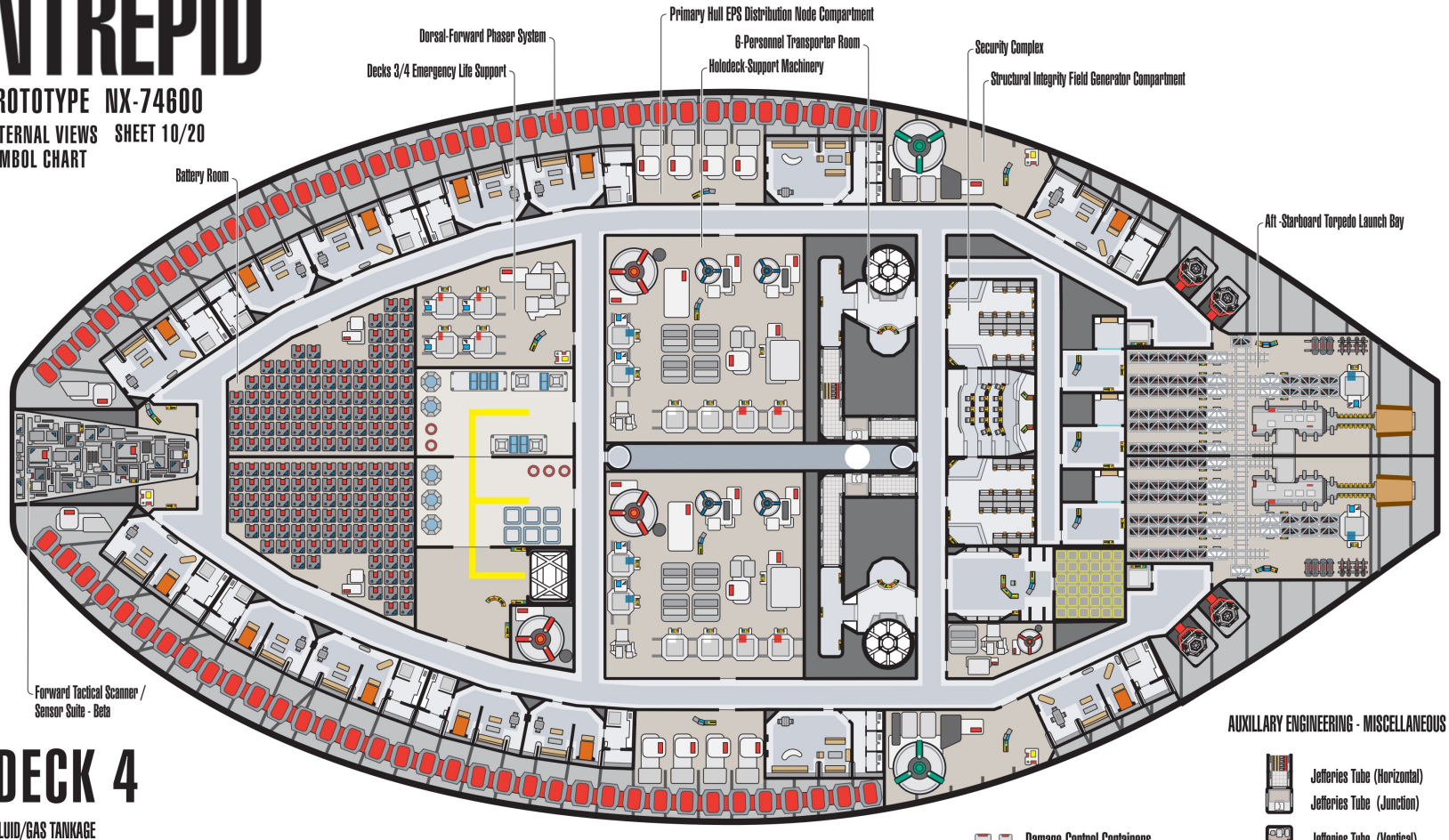
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INTERNAL VIEWS SHEET 10/20

SYMBOL CHART



DECK 4

FLUID/GAS TANKAGE

- Cryogenic Cooling System
- Cryogenic Tank Slurried Deuterium (500 Cubic Meters)
- Cryogenic Tank (200 Cubic Meters)
- Cryogenic Tank (50 Cubic Meters)
- Cryogenic Tank Oxygen / Nitrogen / Trace Gases (100 Cubic Meters)
- Cryogenic Tank (20 Cubic Meters)
- Organic Waste Slurry Tank (20 Cubic Meters)
- Water Tank (20 Cubic Meters)
- Inorganic Waste Transport Stage & Holding Tank (20 Cubic Meters)

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

- Damage-Control Containers
- Emergency Supply Containers
- Misc. Shipwide ODN Distribution Areas

SYMBOL CHART

AUXILLARY ENGINEERING - TRANSPORT & COMMUNICATIONS SYSTEMS

- Transporter Sensor/Emitter Antenna
- Transporter Transceiver
- Subspace Antenna
- Subspace / Radio Transceiver
- Transporter Pad (6-personnel)
- Transporter Pad (Emergency 22-personnel)
- Transporter Pad (Cargo)
- Transporter Buffer

AUXILLARY ENGINEERING - MISCELLANEOUS SYSTEMS

- Jefferies Tube (Horizontal)
- Jefferies Tube (Junction)
- Jefferies Tube (Vertical)
- Vertical Turboshaft
- Horizontal Turboshaft / Sidestep Turbolift Station
- Catwalk Personnel Lift & Ladder Access
- Warp Pylon Swivel Motor / Warp Conduit Joint Rotation Sleeve
- Antimatter Containment Pod Loading/Jettison Hatch
- Cargo Loading Hatch
- Cargo Conveyor Hatch
- Antigrav Landing Thruster
- Landing Pad & Armature (Retracted)

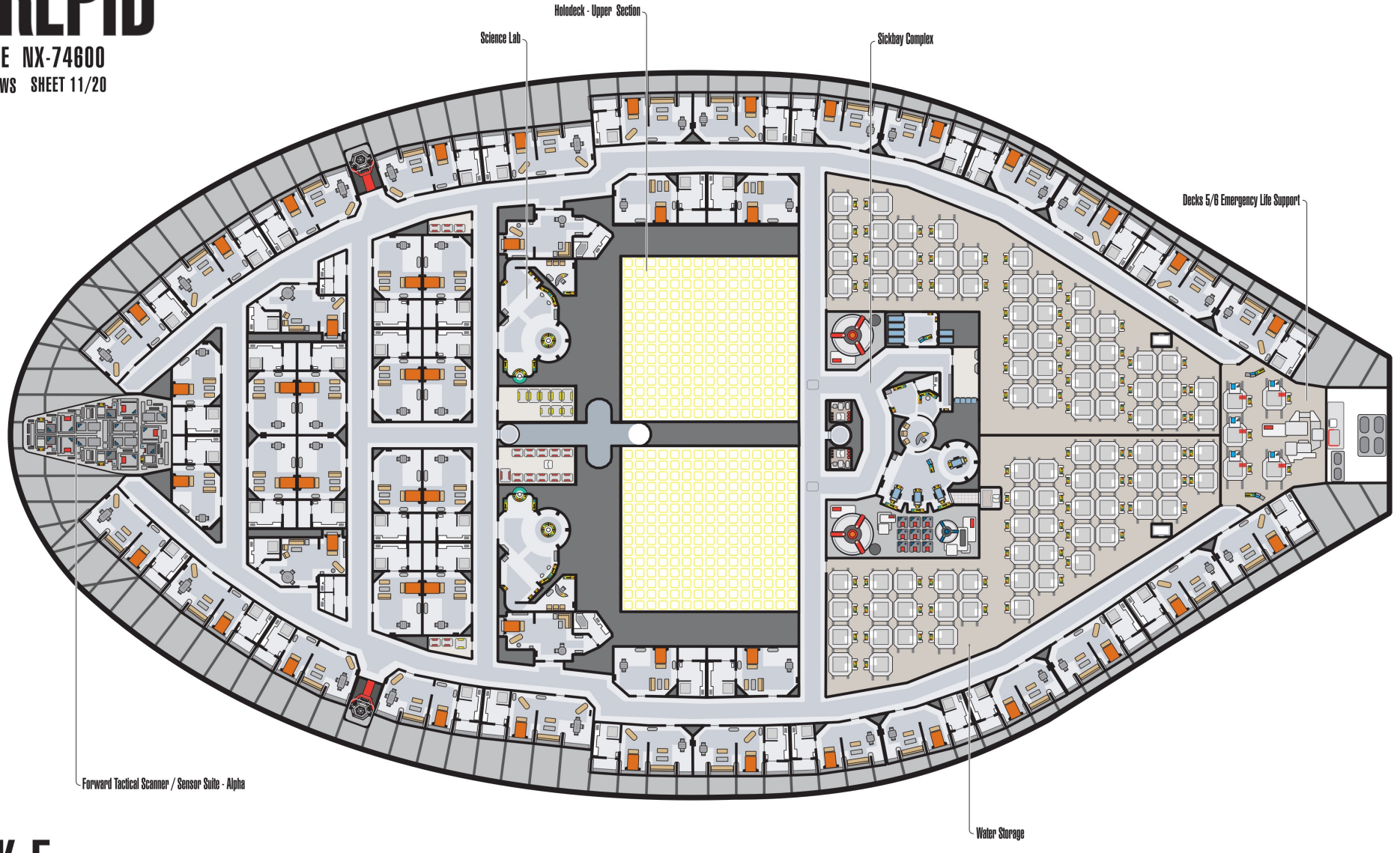
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INTERNAL VIEWS SHEET 11/20



DECK 5

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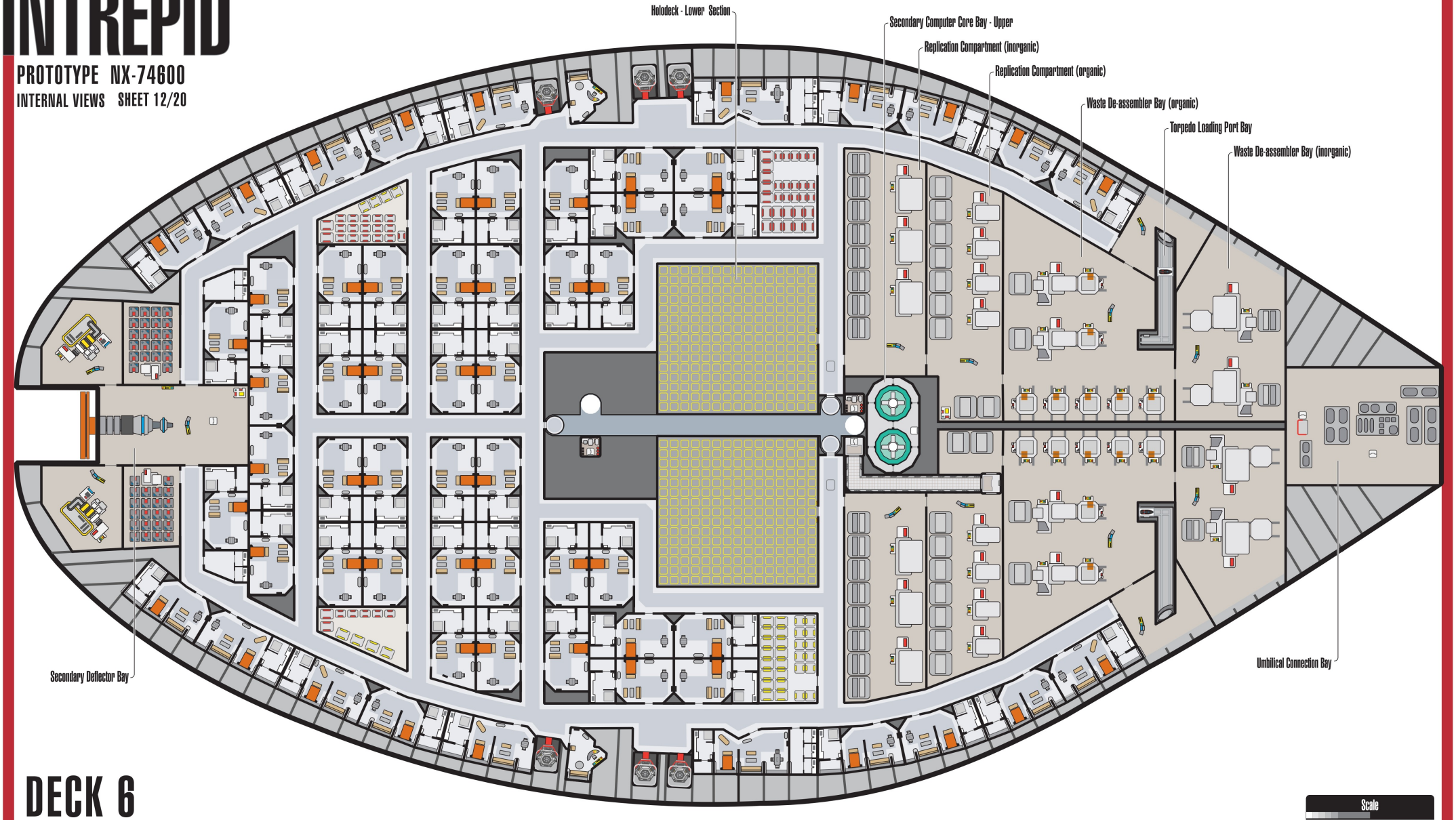
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INTERNAL VIEWS SHEET 12/20



DECK 6

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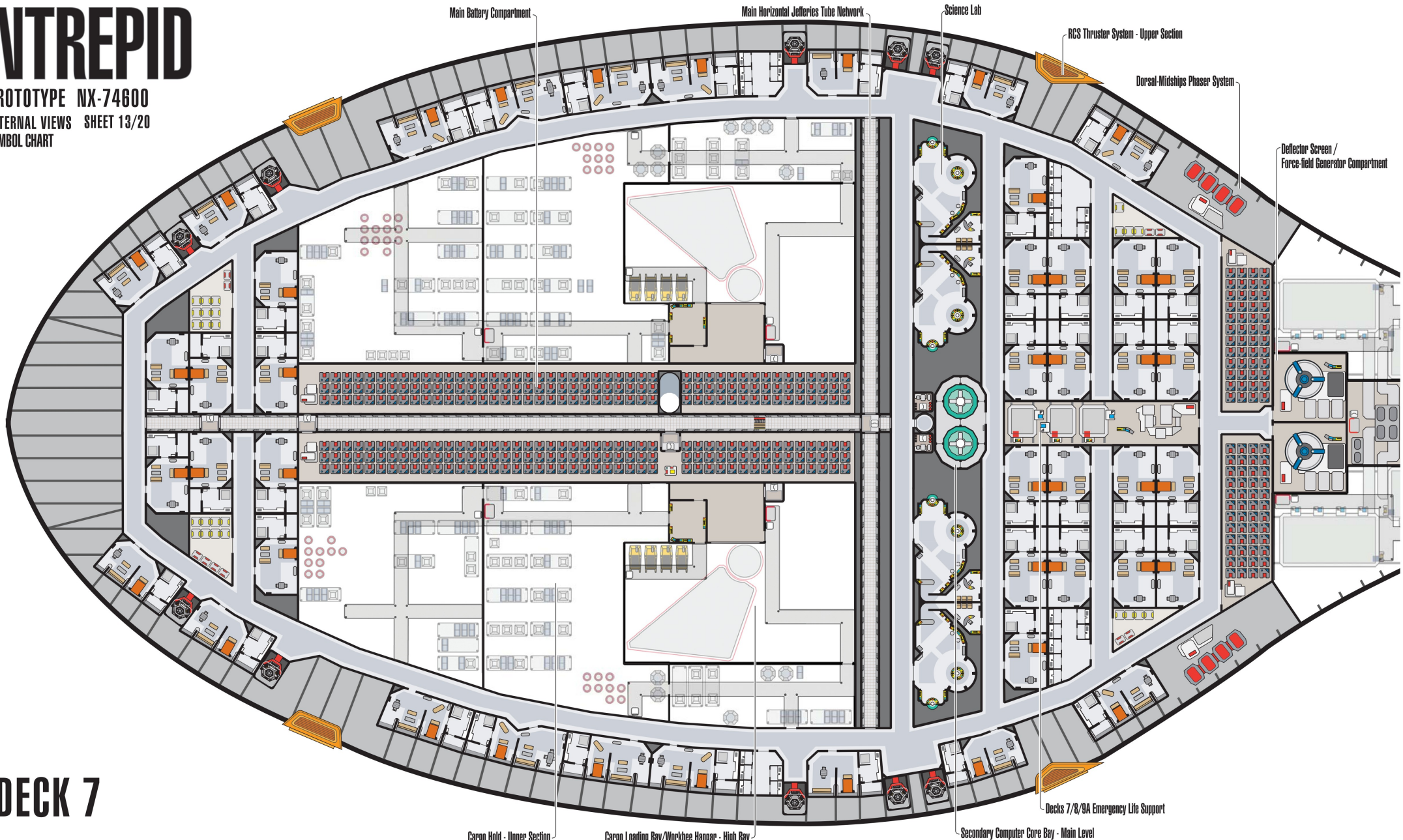
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INTERNAL VIEWS SHEET 13/20

SYMBOL CHART



DECK 7

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m

Deflector Screen /
Force-field Generator Compartment

Deuterium Tankage - Upper Section

Umbilical Connection Bay

Deuterium Injector Access Hatch

SYMBOL CHART

EMBARKED CRAFT

Work Bee

Type 7 Shuttlecraft

Type 9 Shuttlecraft

Type 11 Shuttlecraft

Aerowing-class Captain's Yacht

External Ventral Hull Access

DECK 9A

Aerowing Shuttle Parking Bay

Aerowing Shuttle Fuel Tankage

Cargo Conveyor Hatch Access Bay

Cargo Conveyor Hatch Access Bay

Transporter Transceiver Compartment

Scale
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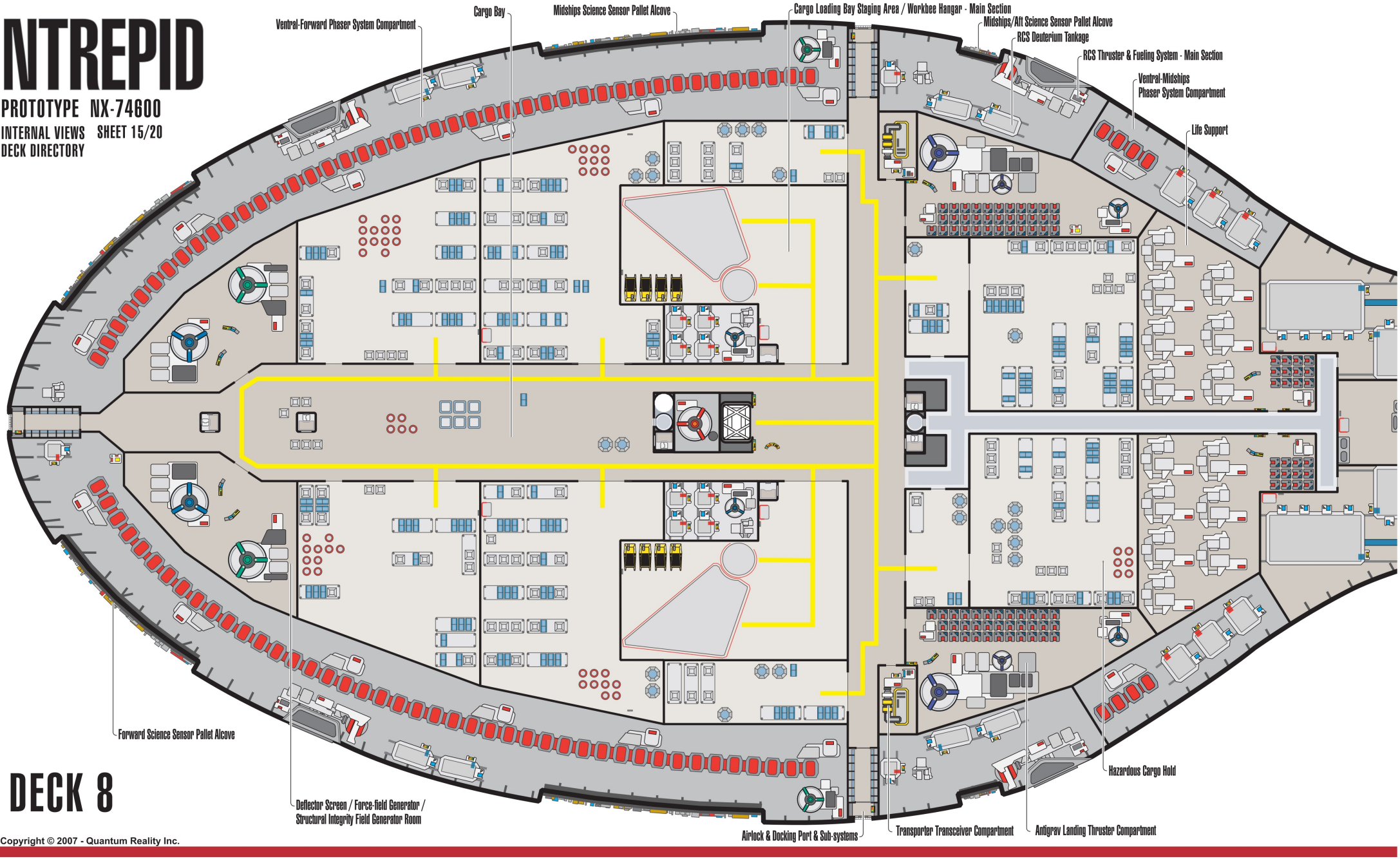
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INTERNAL VIEWS SHEET 15/20

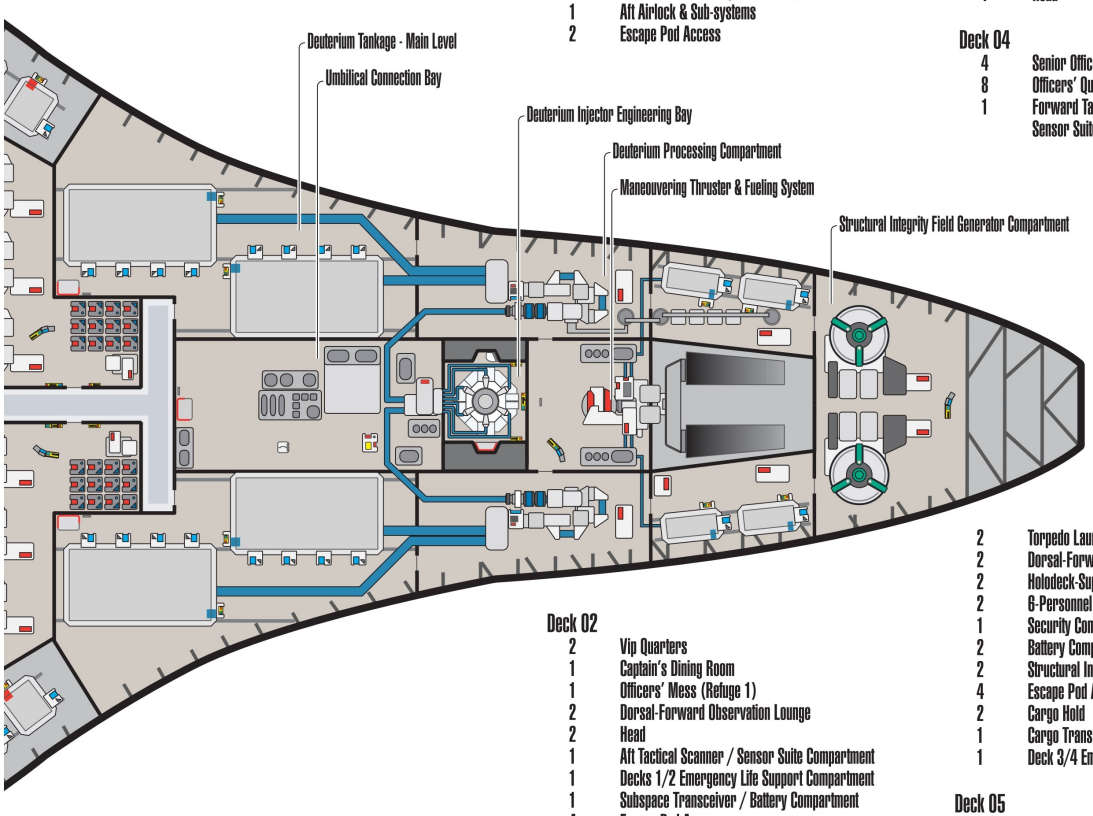
DECK DIRECTORY



DECK 8

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DECK DIRECTORY



Deck 01

1	Main Bridge
1	Captain's Ready Room
1	Main Conference Room
1	Secure Locker (Weapons Access)
1	Aft Airlock & Sub-systems
2	Escape Pod Access

Deck 02

2	Vip Quarters
1	Captain's Dining Room
1	Officers' Mess (Refuge 1)
2	Dorsal-Forward Observation Lounge
2	Head
1	Aft Tactical Scanner / Sensor Suite Compartment
1	Decks 1/2 Emergency Life Support Compartment
1	Subspace Transceiver / Battery Compartment
4	Escape Pod Access

Deck 03

1	Captain's Quarters
1	VIP Private Conference Lounge
8	Senior Officers' Quarters
2	Officers' Quarters
2	Enlisted Quarters
2	Vip Quarters
2	Transporter Transceiver Compartment
1	Emergency Transporter Room
1	Personnel Transporter Buffer
1	Deflector Screen / Force-field Generator Compartment
1	Aft Airlock & Sub-systems
1	Battery Compartment
1	Head

Deck 04

4	Senior Officers' Quarters
8	Officers' Quarters
1	Forward Tactical Scanner / Sensor Suite - Beta Compartment
2	Torpedo Launch Bay - Main Level
2	Dorsal-Forward Phaser System Compartment
2	Holodeck-Support Machinery Compartment (Buffers)
2	6-Personnel Transporter Room
1	Security Complex
2	Battery Compartment
2	Structural Integrity Field Generator Compartment
4	Escape Pod Access
2	Cargo Hold
1	Cargo Transporter Buffer
1	Deck 3/4 Emergency Life Support Compartment

Deck 05

18	Officers' Quarters
8	Chief Petty Officers' Quarters
22	Enlisted Quarters
1	Forward Tactical Scanner/Sensor Suite - Alpha
2	Holodeck - Upper Section
1	Sickbay Complex
2	Science Lab
2	Head
1	Decks 5/6 Emergency Life Support Compartment
2	Water Storage Bay
2	Escape Pod Access
1	Battery Compartment (Dedicated Sickbay)
2	Personnel Transporter Buffer

Deck 06

6	Senior Officers' Quarters
54	Enlisted Quarters
1	Executive Officer's Office
1	Chief Petty Officer's (Bosun's) Office
2	Holodeck - Sub Level (Buffers)
2	Secondary Computer Core Bay - Upper
2	Torpedo Loading Port Bay
2	Replication Compartment (inorganic)
2	Replication Compartment (organic)
2	Waste De-assembler Compartment (inorganic)
2	Waste De-assembler Compartment (organic)
1	Secondary Deflector Bay
1	Umbilical Connection Bay
6	Escape Pod Access
2	Battery Compartment
2	Head

Deck 07

2	Senior Officers' Quarters
42	Enlisted Quarters
2	Dorsal-Midships Phaser System Bay
2	Secondary Computer Core Bay - Main Level
4	Science Lab
2	Cargo Loading Bay - Upper Section
6	Cargo Hold - Upper Section
4	RCS Thruster & Fueling System - Upper Section
2	Deuterium Tankage - Upper Section
2	Deflector Screen / Force-field Generator Compartment
1	Decks 7/8/9A Emergency Life Support Compartment
2	Main Battery Compartment
2	Battery Compartment
3	Jeffries Tube
3	Umbilical Connection Bay
10	Escape Pod Access
2	Head

Deck 08

3	Airlock & Docking Port & Sub-systems Compartment
2	Life Support Compartment
2	Ventral-Forward Phaser System Bay
2	Ventral-Midships Phaser System Bay
2	Deflector Screen / Force-field Generator / Structural Integrity Field Generator Compartment
1	Structural Integrity Field Generator Compartment
2	Transporter Transceiver Compartment
4	RCS Thruster & Fueling System - Main Section
1	Cargo Bay & Cargo Transporter Alcove
2	Cargo Loading Bay - Main Level
6	Cargo Hold - Main Level
2	Antigrav Landing Thruster Compartment
2	Deuterium Tankage - Main Level
2	Deuterium Processing Compartment
1	Deuterium Injector Engineering Bay
2	Umbilical Connection Bay
4	Hazardous Cargo Hold
4	Battery Compartment
1	Transporter Buffer

Deck 09-A

1	Ventral-Forward Observation Lounge
1	Aerowing Shuttle Parking Bay
1	Aerowing Shuttle Control Room
1	Head
1	Transporter Transceiver Compartment
2	Cargo External Hatch Access Bay
2	Cargo Conveyor Hatch Access Bay

Deck 09-B

2	Torpedo Launch Bay - Upper Section
2	Torpedo Loading Port Bay
1	Turbolift Maintenance Workshop
6	Science Lab
1	Battery Compartment
1	Coolant Bypass Engineering Compartment
1	Shuttlebay 1 - Upper Section
1	Shuttlebay 2 - Upper Section
1	Shuttlebay Flight Control Room
1	Shuttlebay Systems Control Room
1	Shuttlebay Operations Control Room

Deck 10

2	Torpedo Launch Bay - Main Level
2	Enlisted Mess & Lounge (Refuge 2)
1	Astrometrics Lab
1	Stellar Cartography Lab
2	Petty Officer Mess & Lounge (Refuge 3)
1	Cargo Bay - Upper Section
2	Deflector Screen / Force-field Generator / Structural Integrity Field Generator Room
1	Spare Warp Core Storage - Upper Section
2	Primary Computer Bay - Upper Section
1	Main Engineering Bay - Upper Level
1	Shuttle Bay 1 - Main Level
1	Shuttle Bay 2 - Main Level
1	Shuttle Fabrication Bay
2	Shuttle Maintenance Storage Bay
1	Shuttle Bay Pressurization Room
1	Shuttle Bay Force-field Generator & Airlock Subsystems Room
1	Aft Airlock
2	Head
1	Deck 9B/10 Emergency Life Support Compartment

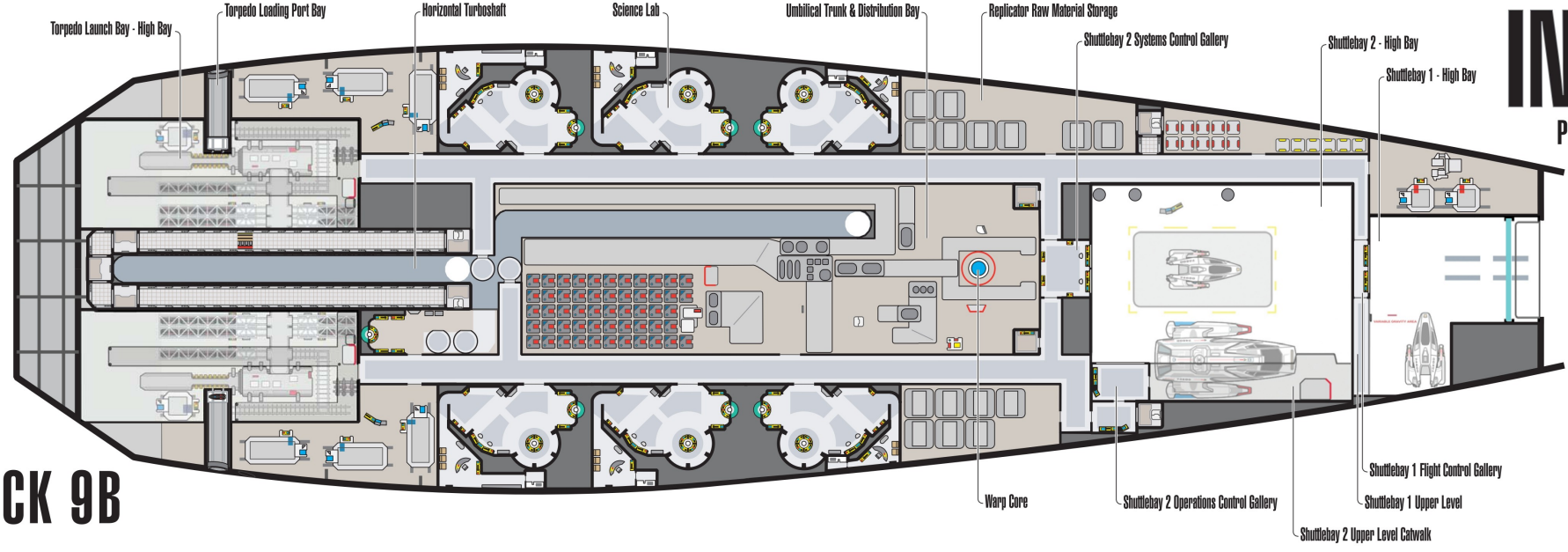
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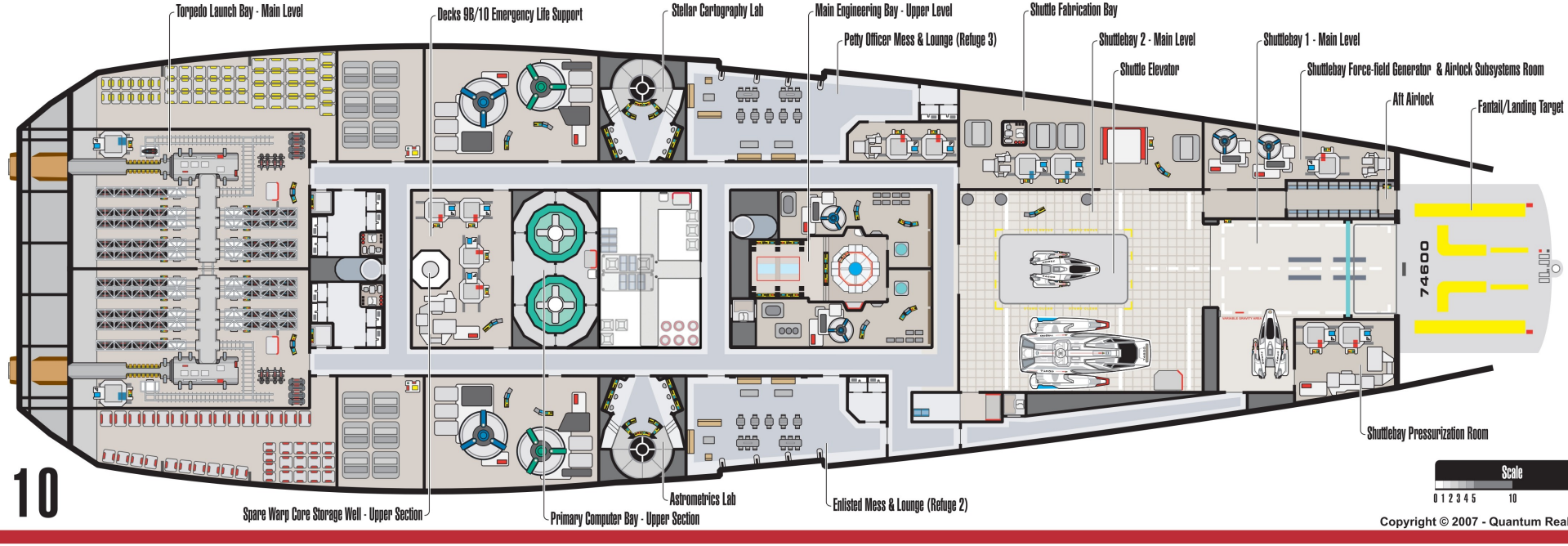
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PROTOTYPE NX-74600

17/20 INTERNAL VIEWS



DECK 9B



DECK 10

Scale

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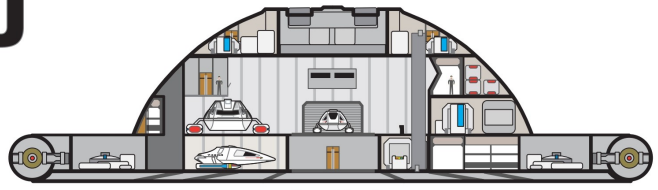
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PROTOTYPE NX-74600

INTERNAL VIEWS SHEET 18/20

Cross-Section Through Shuttlebay 2



Forward Aspect

Cross-Section Through Shuttlebay 1

Aft Aspect

DECK 11

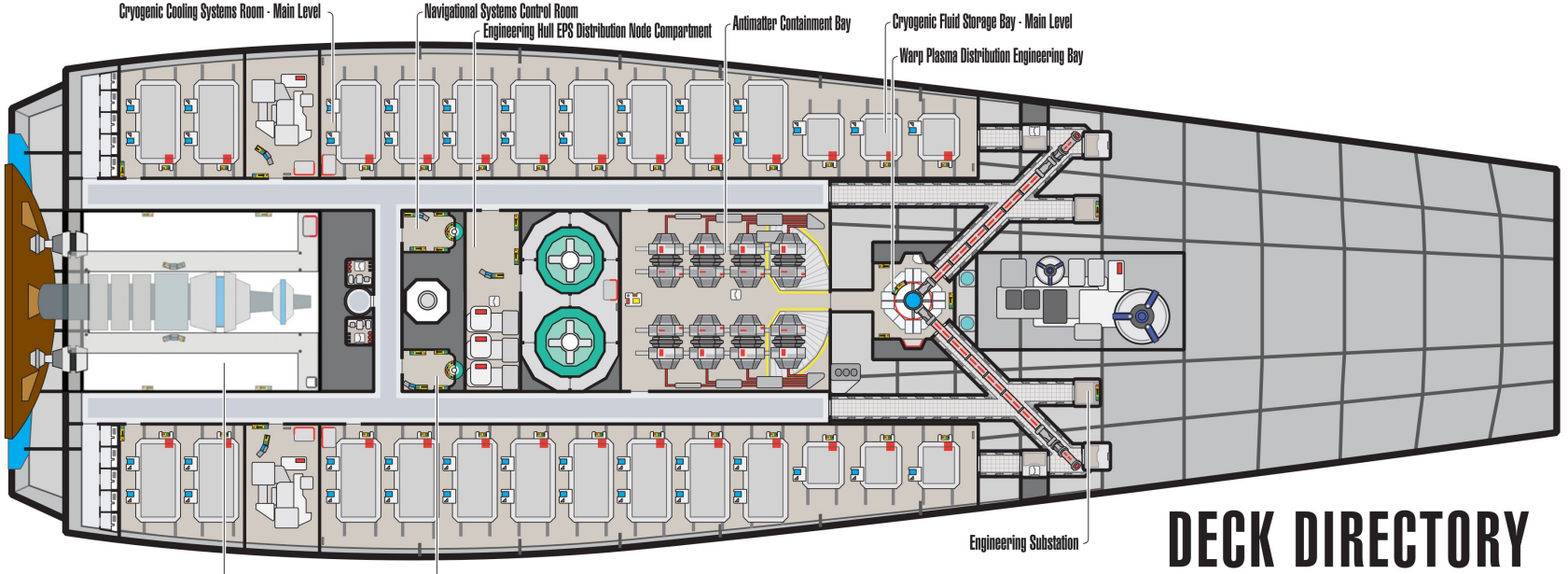
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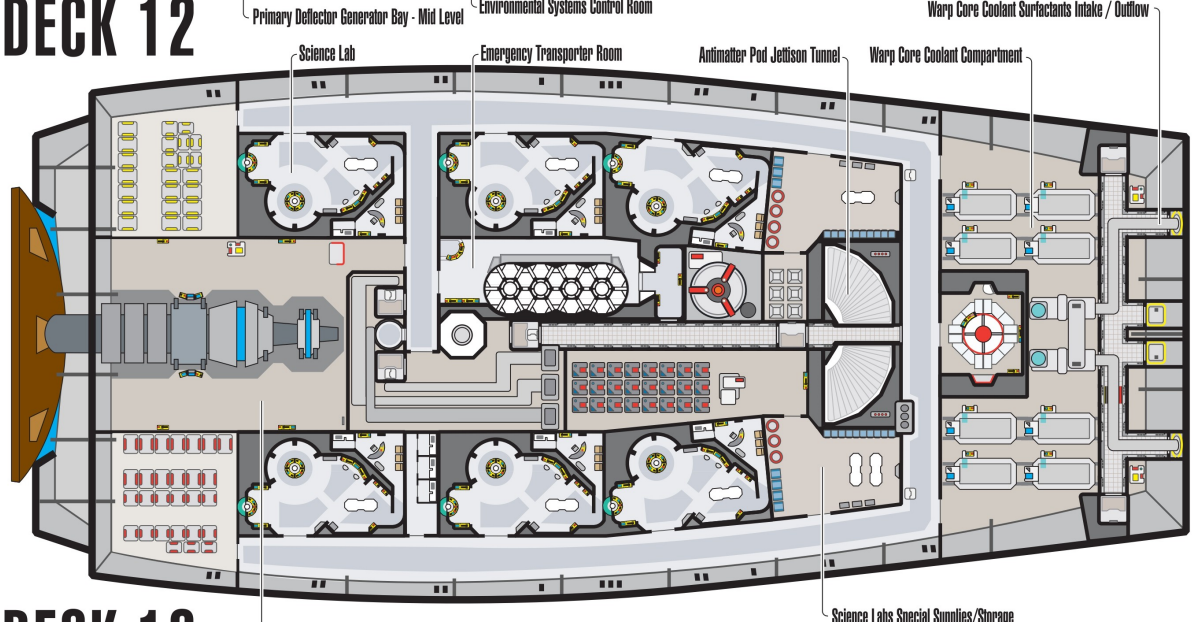
PROTOTYPE NX-74600

19/20 INTERNAL VIEWS

DECK DIRECTORY



DECK 12



DECK 13

DECK DIRECTORY

Deck 11

1	Primary Deflector Generator Bay - Upper Section
2	Cryogenic Cooling Systems Room - UpperSection
4	Cryogenic Fluid Storage Bays - Upper Section
1	Spare Warp Core Storage - Mid Section & Battery Room
2	Primary Computer Bay -Mid Section
1	Cargo Bay - Main Level
1	Main Engineering Bay - Main Level
1	Shuttle Elevator Bay
1	Shuttle Parking Control Bay
1	Shuttle Refueling & Maintenance Storage Bay
1	Shuttle Maintenance Storage Bay
1	Shuttle Parking Bay
2	Ventral-Fantail Phaser System
1	Aft Observation Lounge (Shuttle Pilot Ready Room)
3	Head
1	Deck 11/12 Emergency Life Support Compartment
1	Battery Compartment

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
1	Nacelle Pylon Swivel Motor Bay
1	Nacelle Deflector Screen / Force-field Generator Bay
1	Ventral-Pylon Phaser System
1	Pylon Structural Integrity Field Generator Room
1	Fusion Generator & Impulse Bay

Deck 12

1	Primary Deflector Generator Bay - Mid Level
2	Cryogenic Cooling Systems Room - Main Level
4	Cryogenic Fluid Storage Bays - Main Level
1	Spare Warp Core Storage - Mid Section
1	Primary Computer Bay -Main Level
1	Antimatter Containment Bay
1	Warp Plasma Distribution Engineering Bay
1	Navigational Systems Control Room
1	Environmental Systems Control Room
1	Antigrav Landing Thruster Compartment

Deck 13

1	Main Deflector Generator Bay - Main Level
1	Emergency Transporter Room
1	Spare Warp Core Storage - Mid Section
6	Diagnostics & Repair Engineering Workshop / Lab
1	Warp Core Coolant Loop Engineering Bay
2	Science Labs Special Supplies/Storage
1	Battery Compartment
1	Personnel Transporter Buffer
1	Head

Deck 14

2	Deflector Screen / Force-field Generator Room
1	Spare Warp Core Storage - Mid Section
2	6-Personnel Transporter Room
2	Diagnostics & Repair Engineering Workshop / Lab
1	Antimatter Processing
1	Antimatter Injector Engineering Bay
4	Access to Landing Strut Ladder
4	Escape Pod Access
1	Damage Control Command

Deck 15

2	Plasma Relay Control
1	Ventral-Midships Phaser System
2	Personnel Transporter Buffer Room
2	Tractor Beam Emitter
1	Spare Warp Core Storage - Lower Section & Hatch
1	Antimatter Loading Port & Antimatter Generator Bay
1	Warp Core Jettison Hatch
4	Landing Struts / Pad Bay
1	Battery Room
10	Escape Pod Access

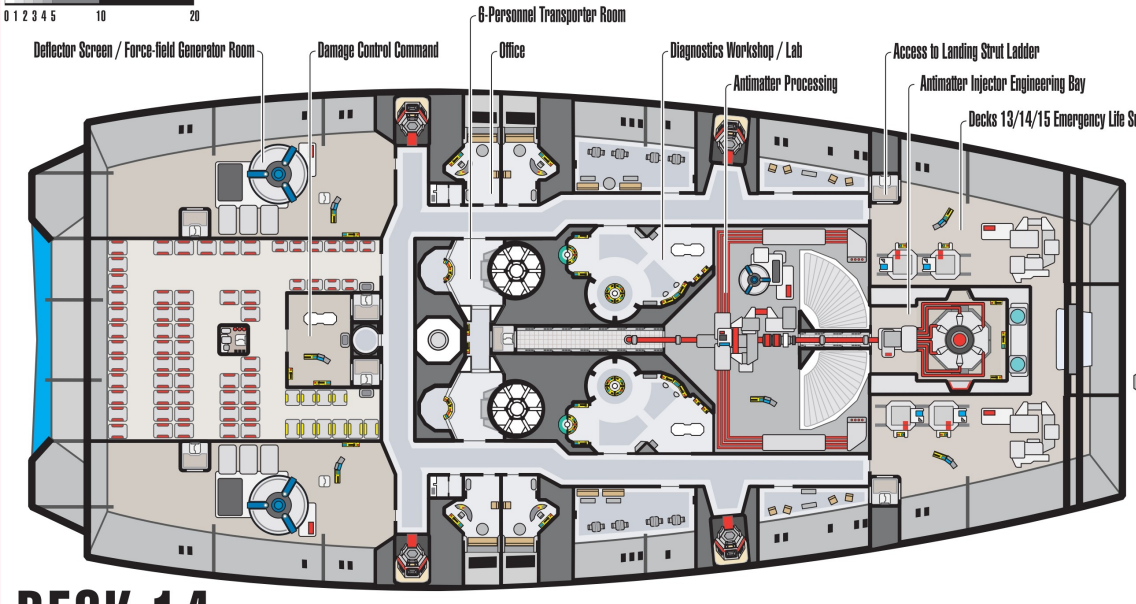
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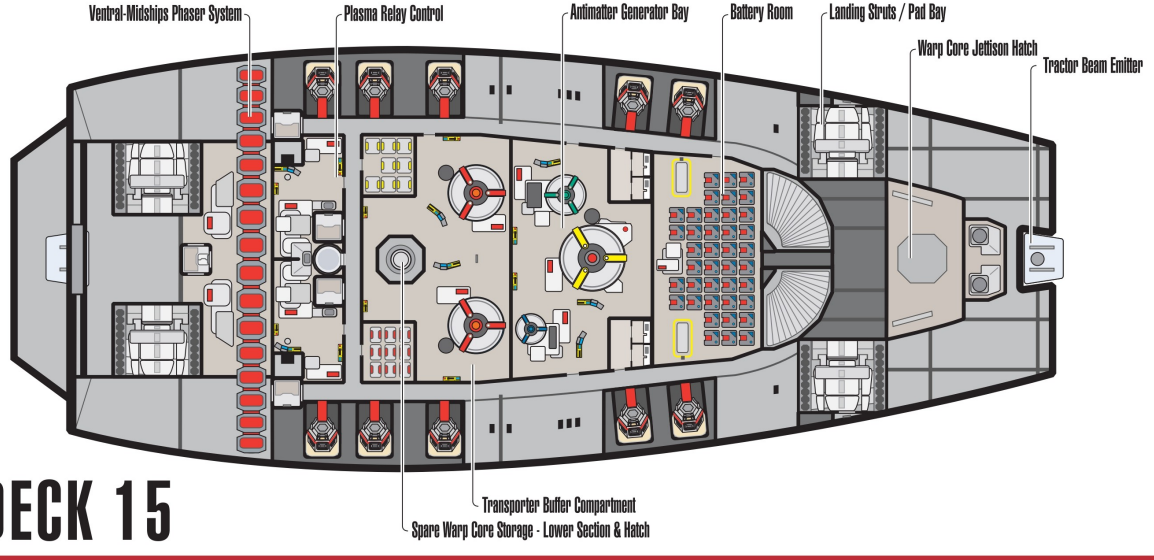
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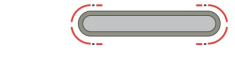
DECK 14



DECK 15

SYMBOL CHART

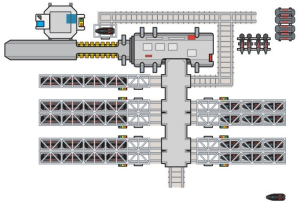
AUXILLARY ENGINEERING - DEFENSE SYSTEMS


Phaser Emitter

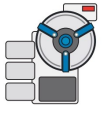

Phaser Firing Chambers


Photon Torpedo Control Room


Pressurization Gas Tankage


Forward Photon Torpedo Launch Bay:
- Launcher
- Feed/Transfer Conveyor
- Torpedo Magazines
(5 stacks of 4 x 4 + 4 stacks of 3 x 4 = 128)
- Loading Elevator (from upper hull)

- Torpedoes & Probe Loadout:
  - Quantum Torpedo
  - Photon Torpedo
  - Various Probes
- Torpedo/Probe Mobile Storage Racks


Force-field / Deflector Screen Generator


Conventional Explosive Destruct Charge

ENVIRONMENTAL ENGINEERING - REPLICATION


Replicator Head (organic)


Replicator Raw Material Tank (organic) (20 Cubic Meters)


Replicator Head (inorganic)


Replicator Raw Material Tank (inorganic) (20 Cubic Meters)


Large-scale Replicator Stage (inorganic)

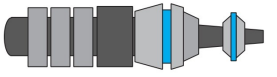
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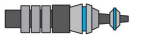
PROTOTYPE NX-74600

20/20 INTERNAL VIEWS
SYMBOL CHART

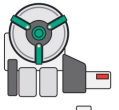
AUXILLARY ENGINEERING - GRAVITONIC SYSTEMS


Dish Aiming /Focussing Armature


Primary Deflector Generator


Secondary Deflector Generator

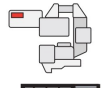

Engineering Insulating Force Field Generator


Structural Integrity Field Generator (Primary Node)


Structural Integrity Field Generator (Secondary Reinforcing Node)


Tractor Beam Emitter

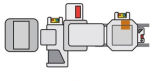
ENVIRONMENTAL ENGINEERING - LIFE SUPPORT SYSTEMS

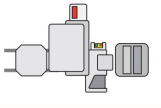

Atmospheric Recycler


Airlock / Docking Port & Pressure Suit Lockers


Airlock Systems

ENVIRONMENTAL ENGINEERING - WASTE RECYCLING


Waste De-assembler Head (organic)


Waste Recycler (Solid)