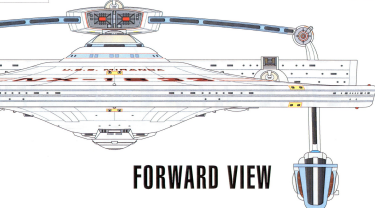
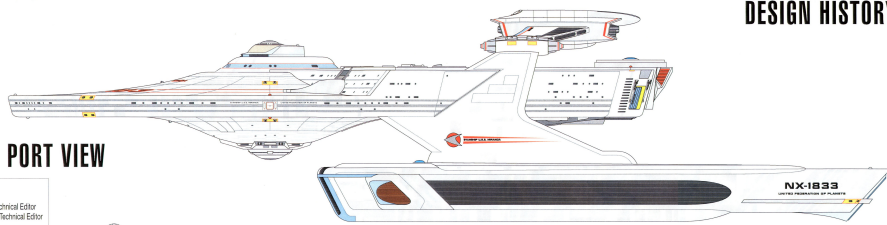




MIRANDA

PROTOTYPE NX-1833
EXTERNAL VIEWS SHEET 1/10
SPECIFICATIONS
DESIGN HISTORY

PORT VIEW



FORWARD VIEW

Scale
1:125000

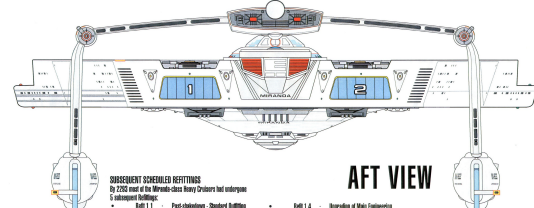
372314

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

SPECIFICATIONS

PARTICULARS	DETAILS	DECK & HULLARY SYSTEMS	PROPULSION
Vessel Class	Miranda	40 Bays	276 Engines
Identification	NX 1833	72 Thrust & Resistance Drive	4 Impellers
Type	Heavy Frigate	2 Environmental Emergency	1 Environmental Inter-ship
SPACEFRAME		INFORMATION SYSTEMS	
Overall Length	240 meters	Computer Core	1
Overall Depth	157.7 meters	Datronic	Transfer TTL Microprocessors
Overall Draft	50 meters		
Displacement	10,000 t		
WARP SYSTEMS			
Power	Major / Antimatter Reactor (2.7 x 10 ¹⁶ terawatts)		
Operating Speed	w/ 0.1 200.236		
Flash Speed	w/ 0.9 825.871 (Echelonable for 13 hours)		
Max Speed	w/ 7.8 841.556 (Echelonable for 1 hour)		

IMPULSE SYSTEMS	
Power	Primary - Fuel Free warp core (1.8 x 10 ¹⁶ terawatts)
Secondary	4 - Antimatter fusion reactor (5.2 x 10 ¹⁶ terawatts)
Water Masts	2 Type 1 / 2 AA / Type 2
Control Panel	6.93 c
Flash Speed	6.93 c
TACTICAL SYSTEMS	
Power	157 - Main 100 percent
Warp Power	2.50w - Type 1 / 2 AA / Type 5
Thrusting Unit	2.70w - Type 1 / 2 AA / Type 2
Weapon	200 Mark V Prime Torpedoes
20 Phasers	
1 Submarine	
Weapon	1.65 x 10 ¹⁶ HP max. velocity 7.88 x 10 ¹⁶ m/s / 6.73 x 10 ¹⁶ m/s (0.9997 c)
Tractor Beam	1.00 x 10 ¹⁶ terawatts (250 kilotonnes)
4 Shielding Doors	
2 Shielding Internal - colliding beams	



AFT VIEW

Scale
1:125000

372314

PROTOTYPE NX-1833
SHEET 2/10

DESIGN HISTORY

Creating a Heavy Frigate

Started in 2008, the design process for the Miranda class was a complex one. The design team had to balance the need for a vessel that could carry out a variety of missions, from reconnaissance to fleet support, while maintaining a high level of technological advancement. The design process was a collaborative effort between the design team and the client, with many iterations and revisions. The final design is a result of a long and challenging process, but one that has resulted in a vessel that is both powerful and versatile.

The original design was a result of a long and challenging process, but one that has resulted in a vessel that is both powerful and versatile. The design team had to balance the need for a vessel that could carry out a variety of missions, from reconnaissance to fleet support, while maintaining a high level of technological advancement. The design process was a collaborative effort between the design team and the client, with many iterations and revisions. The final design is a result of a long and challenging process, but one that has resulted in a vessel that is both powerful and versatile.

The main bulk of a Frigate is to provide a variety of support services for the fleet. This includes providing a variety of support services for the fleet, such as providing a variety of support services for the fleet. This includes providing a variety of support services for the fleet, such as providing a variety of support services for the fleet.

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REBUILD HISTORY

The Miranda class Heavy Frigate has a long and storied history. It has been rebuilt many times over, and each time it has become a more powerful and versatile vessel. The design team has worked hard to ensure that the vessel is always up to date with the latest technology, and that it is always ready to take on the most challenging missions. The result is a vessel that is both powerful and versatile, and that is capable of carrying out a wide range of missions.

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REBUILD HISTORY

Phase 1: Rebuild
- Rebuild the hull structure
- Rebuild the internal systems
- Rebuild the external systems
- Rebuild the propulsion system
- Rebuild the sensor suite
- Rebuild the weapon suite
- Rebuild the communication suite
- Rebuild the life support system
- Rebuild the medical suite
- Rebuild the crew quarters
- Rebuild the training facilities
- Rebuild the maintenance facilities
- Rebuild the engineering facilities
- Rebuild the operations facilities
- Rebuild the command facilities
- Rebuild the intelligence facilities
- Rebuild the research facilities
- Rebuild the development facilities
- Rebuild the testing facilities
- Rebuild the production facilities
- Rebuild the distribution facilities
- Rebuild the support facilities
- Rebuild the training facilities
- Rebuild the maintenance facilities
- Rebuild the engineering facilities
- Rebuild the operations facilities
- Rebuild the command facilities
- Rebuild the intelligence facilities
- Rebuild the research facilities
- Rebuild the development facilities
- Rebuild the testing facilities
- Rebuild the production facilities
- Rebuild the distribution facilities
- Rebuild the support facilities

Phase 2: Upgrade
- Upgrade the hull structure
- Upgrade the internal systems
- Upgrade the external systems
- Upgrade the propulsion system
- Upgrade the sensor suite
- Upgrade the weapon suite
- Upgrade the communication suite
- Upgrade the life support system
- Upgrade the medical suite
- Upgrade the crew quarters
- Upgrade the training facilities
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- Upgrade the intelligence facilities
- Upgrade the research facilities
- Upgrade the development facilities
- Upgrade the testing facilities
- Upgrade the production facilities
- Upgrade the distribution facilities
- Upgrade the support facilities

Phase 3: Modernize
- Modernize the hull structure
- Modernize the internal systems
- Modernize the external systems
- Modernize the propulsion system
- Modernize the sensor suite
- Modernize the weapon suite
- Modernize the communication suite
- Modernize the life support system
- Modernize the medical suite
- Modernize the crew quarters
- Modernize the training facilities
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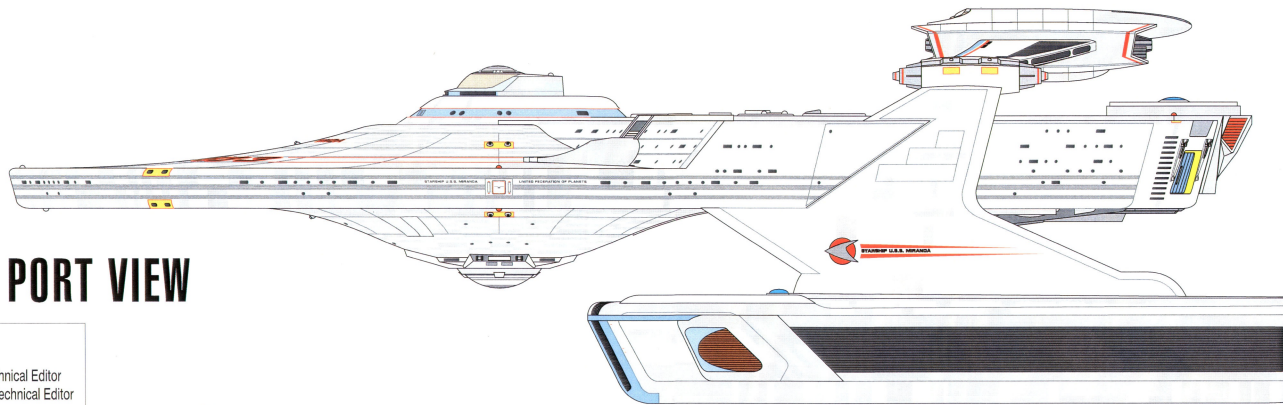
Phase 4: Refit
- Refit the hull structure
- Refit the internal systems
- Refit the external systems
- Refit the propulsion system
- Refit the sensor suite
- Refit the weapon suite
- Refit the communication suite
- Refit the life support system
- Refit the medical suite
- Refit the crew quarters
- Refit the training facilities
- Refit the maintenance facilities
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- Refit the production facilities
- Refit the distribution facilities
- Refit the support facilities

Phase 5: Upgrade
- Upgrade the hull structure
- Upgrade the internal systems
- Upgrade the external systems
- Upgrade the propulsion system
- Upgrade the sensor suite
- Upgrade the weapon suite
- Upgrade the communication suite
- Upgrade the life support system
- Upgrade the medical suite
- Upgrade the crew quarters
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MIRANDA

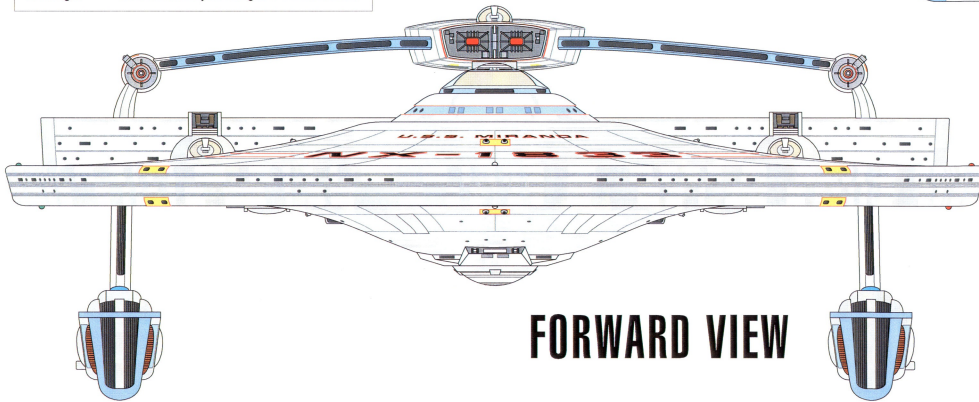
PROTOTYPE NX-1833
 EXTERNAL VIEWS SHEET 1/18
 SPECIFICATIONS
 DESIGN HISTORY



PORT VIEW

DESIGN TEAM:

David Schmidt Designer / Layout Designer / Technical Editor
 Tim Palgut Researcher / Layout Designer / Technical Editor



FORWARD VIEW



SPECIFICATIONS

PARTICULARS

Vessel Class Miranda
 Identification NX-1833
 Type Heavy Frigate

SPACEFRAME

Overall Length 240 meters
 Overall Beam 141.7 meters
 Overall Draft 58 meters
 Decks 10 + 3
 Displacement 6.56 X 10⁴ tons

WARP SYSTEMS

Power Matter / Antimatter Reactor (2.7 X 10⁹ terawatt)
 Cruising Speed wf 6.0 392.30c
 Flank Speed wf 6.8 825.07c (Sustainable for 12 hours)
 Burst Speed wf 7.8 941.55c (Sustainable for 1 hour)

CREW & AUXILIARY SYSTEMS

Complement 48 Officers
 278 Enlisted
 72 Flight & Maintenance Crew
 Transporters 4 6-personnel
 2 26-personnel Emergency
 1 6-personnel Inter-ship
 2 Cargo

INFORMATION SYSTEMS

Computer Core 1
 Diatronic
 Transistor FTL Microprocessors

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DESIGN HISTORY

Creating a Heavy Frigate

Starfleet is always searching for specialized designs to fill perceived - or anticipated - 'niches' in its FORD (Fleet Order of Battle) Table. Various concepts have been explored in search of a practical Heavy Frigate - whose definition would include the capability to carry four squadrons of Attack Bees in addition to double the complement of shuttles and other embarked craft when compared to such capital ships as a Constitution-class Heavy Cruiser. In 2273, Strategic Design was tasked to develop such a design. As the Jefferson-Morrick 'First Flight' or TDS (Technology-Original-Standard) version Knox-class Frigates completed their current 5-year deployments, 65% were assigned to the San Francisco Orbital Yards for rebuilding into the corresponding Knox-class updated Probert-Scott 'Rebuild 1' or TMP (Technology Modified Program) version. The remaining 35% were assigned to the Tokyo Orbital Yards for conversion into Miranda-class updated Probert-Scott 'Rebuild 1' or TMP Heavy Frigates - the Miranda-class Heavy Frigate being essentially a Knox-class Frigate with the hull extended aft 34 meters.

The original Knox class had its forward photon torpedo launcher located in the Superstructure, on Deck 3. When designing the Miranda-class, the designers added a unique 'bulbar'-mounted Weapons Module, which also holds the Mega-Phaser cannon common to Frigates of the TMP conversion.

The main task of a Frigate is to provide a launch/support platform for shuttles and fighters in the role of Fleet Support. Unlike carriers, Frigates are also capable of independent operation in a scientific and military capacity. The Knox-class Frigate has two side-by-side bays, each featuring a large, aft-facing space door. The port bay is dedicated to the Cargo Bay & Workbee Parking/Launch Bay. The starboard bay is the Landing Bay and Parking Bay, and carries a squadron of Killer Bee attack craft, as well as shuttles for the onboard Marine Attack Force and scientific research landing parties.

REBUILD 1.0 BREAKDOWN

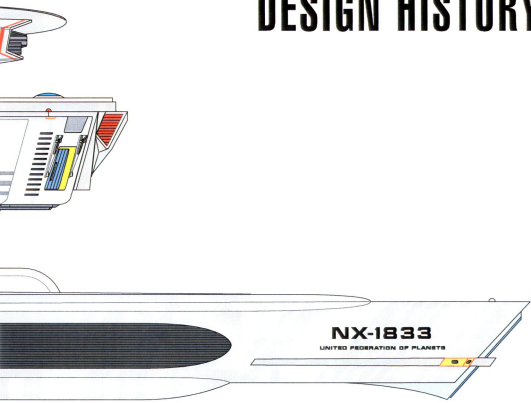
Phase I Preparation:

- Maneuvered into orbital drydock
- Tractor web moorings activated
- Unutilized connections linked
- Power shunted to unutilized feed
- Decommissioning
- Wary care shutdown
- Fusion reactors safed
- Batteries purged
- Cargo bays off-headed
- Shuttles off-headed
- Consumables purged from tankage and shunts
 - Cryogenic gas supplies
 - Deuterium
 - Water
- Food synthesizer raw material
- Personnel and effects off-loaded
- Furniture off-headed
- Life-support and grav-planting shutdown

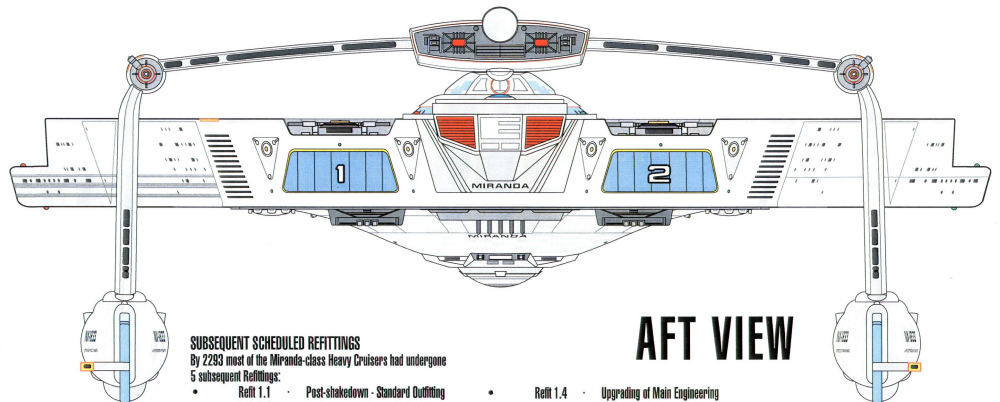
REBUILD HISTORY

Phase II Stripping A:

- Bridge module unlocked and removed from superstructure
- Superstructure removed from primary hull
- Wary nacelles and support pylons unlocked and removed
- Primary hull - interconnecting hull interlocks disconnected
- Secondary hull tractor dft (4-axis displacement -12.9 meters)
- Secondary hull re-moored via tractor web
- Interconnecting hull unlocked and removed from secondary hull
- Main sensor/deflector parabolic dish removed
- Hull plating unwelded, unlocked and removed to orbital smelters



IMPULSE SYSTEMS	
Power	Primary - lead from wary care (1.0 X 10 ¹¹ megawatt) Secondary - 4 deuterium fusion reactor (5.2 X 10 ¹⁴ megawatt)
Vector Nozzle	2 Fore - Type 5 / 2 Aft - Type 5
Cruising Speed	0.31 c
Flank Speed	0.93 c
TACTICAL SYSTEMS	
Phaser	12 - Type VIII barrel
Mega-Phaser	2 Fore - Type 5 / 2 Aft - Type 5
Torpedo Tube	2 Fore - Type 2 / 2 Aft - Type 2
Magazine	300 Mark V Photon Torpedoes
Grid	20 Probes 5 Deflector Shield Generator (rated 1.15 X 10 ⁹ mw - standby / 2.69 X 10 ⁹ mw - alert / 4.73 X 10 ⁹ mw - 0.0017 Sec.) 6 Structural Integrity Field Generator (rated 1.15 X 10 ⁹ mw)
Tractor Beam	Main - 1 Alt (8 megawatt - 225 millicathrons) 4 Shuttlebay Doors 2 Shuttlebay (interval - ceiling mounted)



SUBSEQUENT SCHEDULED REFITTINGS

By 2293 most of the Miranda-class Heavy Cruisers had undergone

5 subsequent Refittings:

- Refit 1.1 - Post-shakedown - Standard Outfitting
- Refit 1.2 - Replacement of Bridge Module
- Refit 1.3 - Installation of Landing Bay Doors/Turbolift
- Refit 1.4 - Upgrading of Sickbay
- Refit 1.5 - Upgrading of Sensor Suite
- Refit 1.4 - Upgrading of Main Engineering
- Refit 1.4 - Upgrading of Sensor Suite
- Refit 1.4 - Upgrading of Computer Core
- Refit 1.5 - Upgrading of Structural Integrity Field Generators
- Refit 1.5 - Replacement of Bridge Module

AFT VIEW

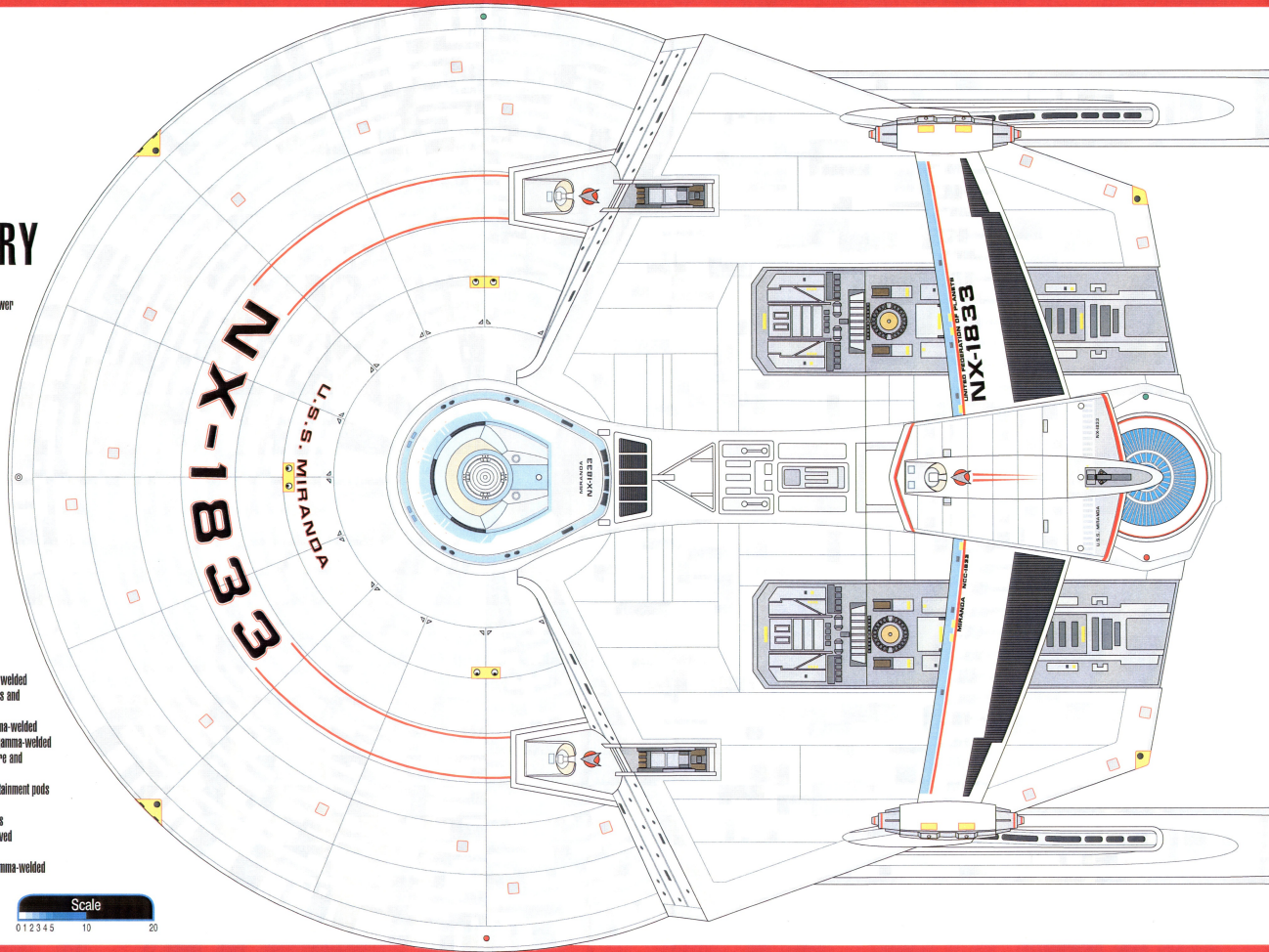
PROTOTYPE NX-1833
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MIRANDA

PROTOTYPE NX-1833
EXTERNAL VIEWS SHEET 3/16
REBUILD HISTORY
INTERNAL SYSTEMS

REBUILD HISTORY

- Phase III Stripping B
 - Various systems removed for later replacement with newer equipment
 - Phaser turret
 - Force-field/deflector screen generators
 - Food, organic and inorganic synthesizers
 - Control consoles
 - Furniture
 - Various systems rebuilt/repaired/refurbished in place
 - Structural integrity generators
 - Life support facilities
 - Secondary computer core
 - Optical data network (ODN)
 - Electro-plasma system conduits (EPS)
 - Various physical structures modified
 - Bulkheads
 - Decking
 - Corridors
 - Warp core/antimatter processor/containment pods assembly removed
 - Ventral sensor suite dome assembly unlocked and removed
 - Main computer core removed
- Phase IV Replacement
 - Frame extensions locked to frame members and gamma-welded
 - New frame members locked to enhanced frame members and gamma-welded
 - New warp nacelles and support pylons locked and gamma-welded
 - New superstructure locked to primary hull frames and gamma-welded
 - New bridge module locked to primary hull superstructure and gamma-welded
 - Placement of new warp core/antimatter processor/containment pods assembly
 - New deck sections locked and welded to frame members
 - Ventral sensor suite dome assembly unlocked and removed
 - New main computer core inserted
 - New ventral sensor suite dome assembly locked and gamma-welded



DORSAL VIEW



INTERNAL SYSTEMS

Section 1.0 Spacecraft Spaceframe & Hull - Unity Hull

The most notable feature of the Frigate series is the Unity Hull. Whereas a Constitution-class Primary Hull is comprised of 16 wedge-shaped segments, the Knox-class Unity Hull concept utilizes 10 of these wedge segments (forward-starboard-port), plus an aft raised segment joining them just aft of the vessel's centerline, and extending to the stern. This raised segment, which bevels up three decks immediately aft of the superstructure, holds the Warp Core, Injulse Drive, Cargo Bay and Shuttle-Landing Bays. The most obvious of the Rebuild 1.0 modifications is the larger spaceframe. After hull plate removal (and subsequent frame inspection for buckling and shearing), all frame members of the Knox-class Unity Hull were augmented with extensions. While the ten forward-starboard-port extensions are moderate, the aft raised segment for the Miranda-class variant increases the vessel's length by 34 meters. Original hull plates were recycled via orbital smelter, and new hull plates matching the Rebuild 1.0 planeform were produced.

Section 1.1 Structural Integrity Field

Type SIF2300A during the Reill 1.4 of the Miranda-class. Due to the enlarged spaceframe keel spar frame members containing an SIF Waveguide Core was installed.

Section 1.2 Inertial Damping Field & Synthetic Gravity Generators

Except for new installations under new deck areas of the Miranda-class Primary Hull, the original IDF/SG generator network was left untouched.

Section 1.3 Security & Containment Force Field Generators

Except for new installations (such as the new Engineering and Security complexes) of the Miranda-class Unity Hull, the original S/CFF generator network was left untouched.

Section 1.4 Main Deflector

A Type M05689T spin-generator feeds a Type M03388B subsurface planar-array navigational deflector emitter system amalgamated into the long and short range sensor systems.

Section 1.51 Ordnance: Phasers

The Type VII Phaser Turret was replaced with the Type VIII on the Miranda-class Primary Hull. Following improvements to shield dynamics and power, Starfleet design engineers chose to discontinue the practice of retracting the phaser cannon emitter heads within the hull when offline. Besides being mechanically simpler, the new turrets improved power through-put to 145% by tapping the warp core directly via dedicated EPS conduits.

Section 1.52 Ordnance: Mega-Phaser Cannon

The Miranda-class is equipped with two Type IX mega-phaser cannon, each mounted on a pylon extending above the vessel's Unity Hull dorsal surface. These cannon feature both lateral-firing "broadside" Type VIII turrets, plus fore- and aft-firing cannon emitters. The latter are immensely augmented phaser emitters, capable of 5 second bursts with intensities 625% that of the Type VIII. Due to their enormous power requirements, the fore- and aft-firing cannon emitters cannot be fired while the vessel is at warp.

Section 1.53 Ordnance: Photon Torpedo Launch/Magazine Pod

Arcing between the two Mega-Phaser Cannons is a "Roll-Bar" Pylon. Mounted at the dorsal centerline is the Photon Torpedo Launch/Magazine Pod. This is a fully self-contained module, holding a single Launch Bay and four Launch Tubes (2 forward, 2

aft), plus magazine storage. The Miranda-class utilizes an adapted version of the P2DTA standard Rebuild Photon Torpedo Launch Bay System. The design features a single Launch Bay with a single centerline track running forward and aft from the staging area to the loading hatches. After entering the fore or aft loading subsystem, the torpedo is conveyed laterally port or starboard to the twin torpedo tubes - and then through the linear accelerator. Flexible in utility, the large Launch Bay can be used as a torpedo maintenance room as well, by placing removable gratings over the loading tracks. The magazines are positioned on the deck below, and torpedoes are raised to the staging area via telescoping elevator.

This innovative pod design has proven so efficient that slightly-modified versions have been created for Destroyer and Corvette variants. Crew complement traffic to and from the pod is normally via an internal transporter target pad, hard-wire connected to the vessel's 6-personnel transporter network. However, access can also be gained via the Roll-Bar's Jelleries Tubes.

Section 1.54 Ordnance: Force-field / Deflector Screen Generators

All FF/DS generators were removed and replaced with the Type FF/DS7784W, which features higher harmonic range, greater intensity, and much faster charging and response cycling time. Additionally, the force-field waveguide grid was augmented to reflect the larger spaceframe.

Section 2.0 Computer Systems

The Type MCC8745MT Main Computer Core integral unit replaces the original, externally-indistinguishable unit in the Knox-class Unity Hull. Within however, all 57,600 duotronic chips have been replaced with the new multitronic chips, doubling processing speed and quadrupling capacity.

Section 2.1 Information Gathering Systems

The Type DNS8445 Dorsal Navigational Sensor Suite accompanies the new BM8984C Bridge Module in the Miranda-class Primary Hull. The VN88333470 Ventral Navigational/Science Sensor Suite on the underside of the Primary Hull has 4 lateral bays containing directional science sensors. Two LR882245 Long Range Sensor Suites are located at the dorsal level of the raised segment. A third LR882245 Suite is located on the dorsal surface of the Photon Torpedo Launch/Magazine Pod.

Section 3.01 Crew Facilities - Quarters

Enlisted quarters remain virtually untouched from the TOS (Technology-Original-Standard) version. Officer quarters have been simplified, with the offices being removed from the quarters in favour of true offices located elsewhere.

Section 3.02 Crew Facilities - Recreation

The Recreation, Gymnasium, and Lounges have been expanded with the enlargement of the Unity Hull radius.

Section 3.03 Crew Facilities - Dining

Facilities have been largely left untouched, although systems have been overhauled, and menu programs greatly enhanced.

Section 3.04 Crew Facilities - Arboretum

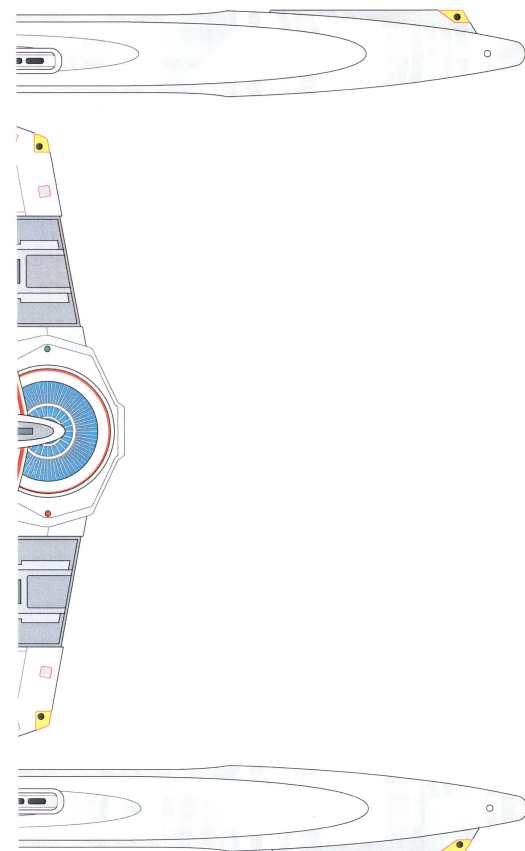
The original enclosed biohabits and display windows have been replaced with a park-like setting with winding paths, a waterfall/stream, and false sky.

Section 3.05 Crew Facilities - Laundry

Facilities have been largely left untouched, although systems have been overhauled.

Section 3.1 Science Facilities

All lab equipment and consoles have been replaced with new equipment.

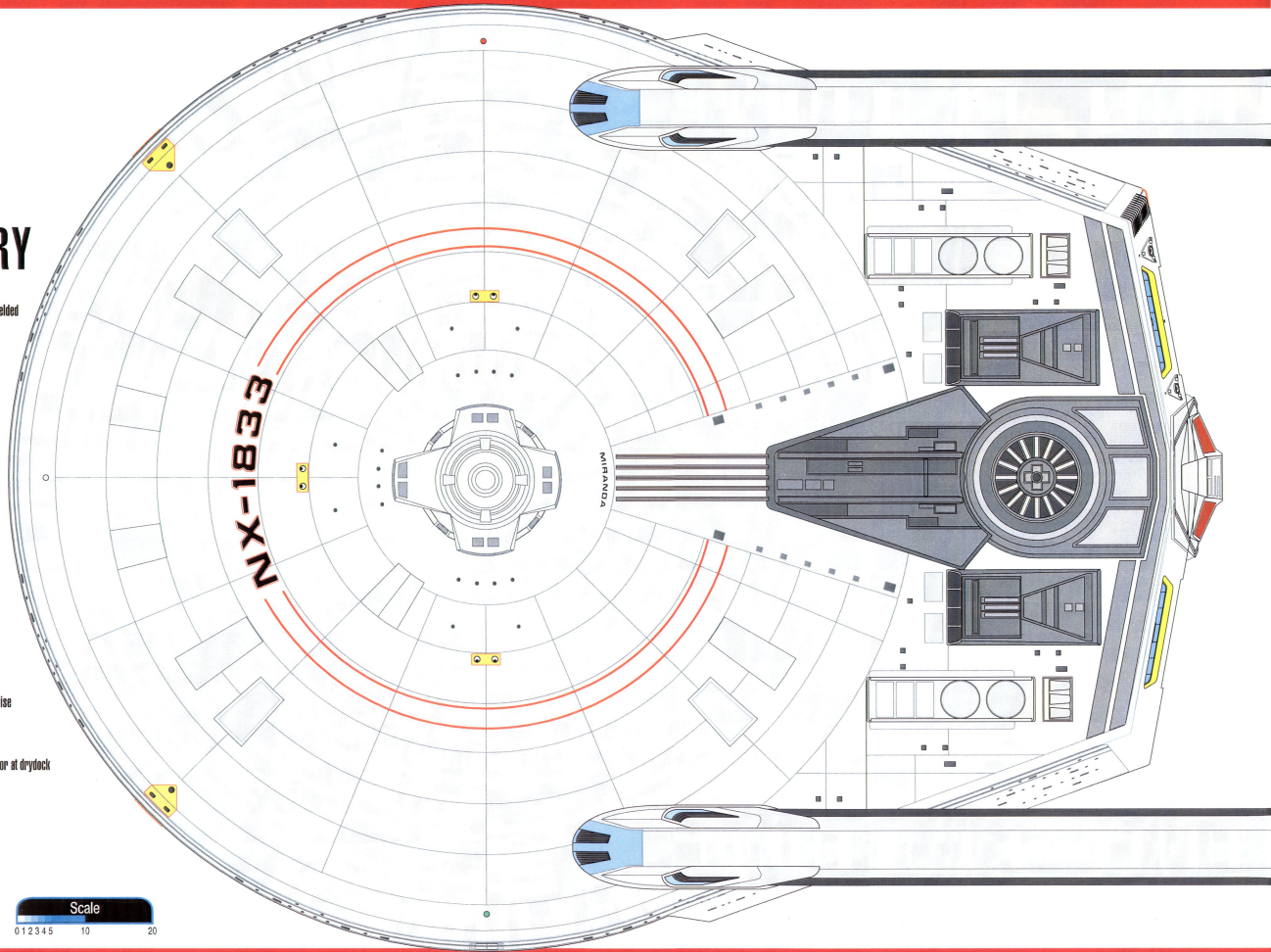


MIRANDA

PROTOTYPE NX-1833
EXTERNAL VIEWS SHEET 5/16
SYMBOL CHART

REBUILD HISTORY

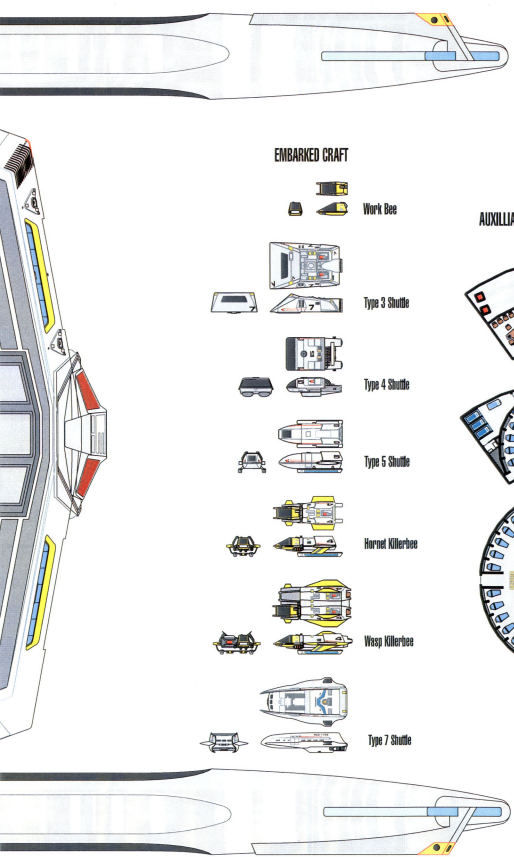
- Phase V Finishing
 - New hull plating locked to frame members and gamma-welded
 - Consumables reloaded to tankage and stunts
 - Cryogenic gas supplies (Oxygen, Nitrogen, Hydrogen, Helium)
 - Deuterium
 - Water
 - Food synthesizer raw material
 - Hull integrity/pressure test (nitrogen at 5 atmospheres)
 - Life-support and grav-plating start-up
 - Internal atmosphere circulated
 - Decor changes
 - Furniture reloaded
 - Personnel and effects re-loaded
 - Shuttles reloaded
 - Cargo bays reloaded
 - Batteries refilled
 - Fusion reactors online and test
 - Warp core online and test
 - Power umbilical feed switched over to onboard power
 - Umbilical connections disconnected
 - Tractor web moorings deactivated
 - Maneuvered out of orbital drydock
- Phase VI Shakedown
 - Step-by-step systems check during shakedown trials cruise
 - Power
 - Propulsion
 - Internal
 - Repairs to unsatisfactory systems - either during cruise or at drydock
 - Satisfactory performance
 - Recommissioning



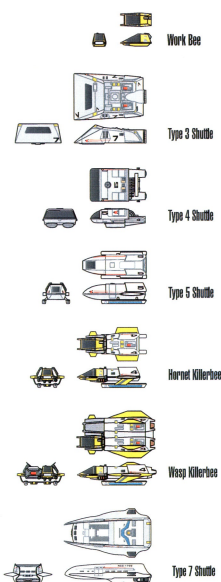
DORSAL VIEW



SYMBOL CHART



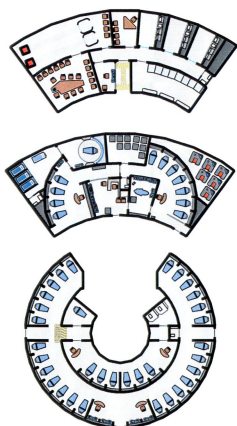
EMBARKED CRAFT



ESCAPE SYSTEMS



AUXILIARY ENGINEERING - COMPARTMENTS



- Security Complex**
- Duty Officer's Post
 - Senior Security Office
 - Target Range
 - Briefing Room
 - Locker Room
 - Cais (3)

- Sickbay Complex**
- Intensive Care (2)
 - Surgery (1)
 - Chief Surgeon's Office
 - Storage (2)
 - Pathology Lab
 - Morgue

- Trauma / Burn Ward (4)
- Infectious Disease Ward (2)
- Isolation Room (1)
- Nurse Station
- Head



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

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

- Junior Officer's Quarters:**
- Sleeping Area
 - Dining Area
 - Lockers
 - Head & Sonic Shower

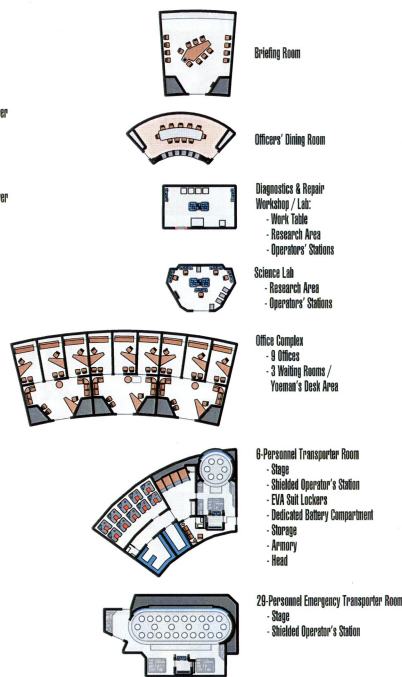
- Enlisted Quarters:**
- Sleeping Area (4 or 6 3-bunked bunks)
 - Dining Area
 - Lockers
 - Head & Sonic Shower

- Officer's Lounge:**
- Conference Lounge
 - Observation Lounge
 - Heads (2)

- Forward Observation Lounge:**
- Main Lounge
 - Relaxation Lounge with Heads
 - Storage Room
 - Upper Hull Airlock/Elevator / EVA Suit Locker

- Enlisted Mess:**
- 14 Tables (56 Personnel)
 - 4 Food Delivery Slots

Arboretum



Briefing Room

Officers' Dining Room

Diagnostics & Repair Workshop / Lab:

- Work Table
- Research Area
- Operators' Stations

Science Lab

- Research Area
- Operators' Stations

Office Complex

- 8 Offices
- 3 Waiting Rooms / Yeoman's Desk Area

8-Personnel Transporter Room

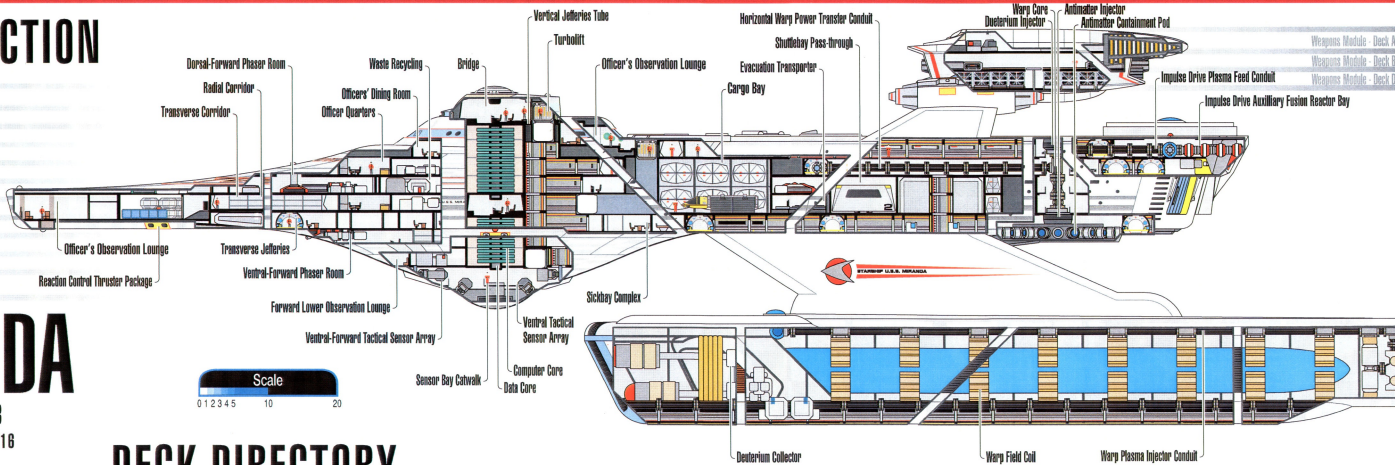
- Stage
- Shielded Operator's Station
- EVA Suit Lockers
- Dedicated Battery Compartment
- Storage
- Airway
- Head

28-Personnel Emergency Transporter Room

- Stage
- Shielded Operator's Station

CROSS-SECTION

- Deck 01
- Deck 02
- Deck 03
- Deck 04
- Deck 05
- Deck 06
- Deck 07
- Deck 08
- Deck 09
- Deck 10
- Deck 11



MIRANDA

PROTOTYPE NX-1833
CROSS-SECTION SHEET 7/16
DECK DIRECTORY

DECK DIRECTORY

- Weapons Pod - Level A**
 - 1 Targeting Sensor Bay
 - 2 Vertical Jefferies Tube
 - 1 Electromagnetic / Tachyonic Warfare Systems Bay
 - 1 Electromagnetic / Tachyonic Warfare Antenna Bay
- Mega-Phaser Housing (2)**
 - 1 Forward Mega-Phaser Energy Chamber Bay
 - 1 Outrigger Phaser Compartment
 - 1 Aft Mega-Phaser Energy Chamber Bay
- Weapons Pod - Level B**
 - 1 Structural Integrity Field Generator Compartment
 - 2 Vertical Jefferies Tube
 - 1 Photon Torpedo Launch Bay
 - 1 Inter-ship Transport Target Compartment
 - 1 Defense Force-field Generator Compartment
- Weapons Pod - Level C**
 - 2 Vertical Jefferies Tube
 - 1 Photon Torpedo Magazine Bay Compartment
- Weapons Pylon (2)**
 - 1 Wary Drive Plasma Feed Conduit
 - 1 Vertical Jefferies Tube

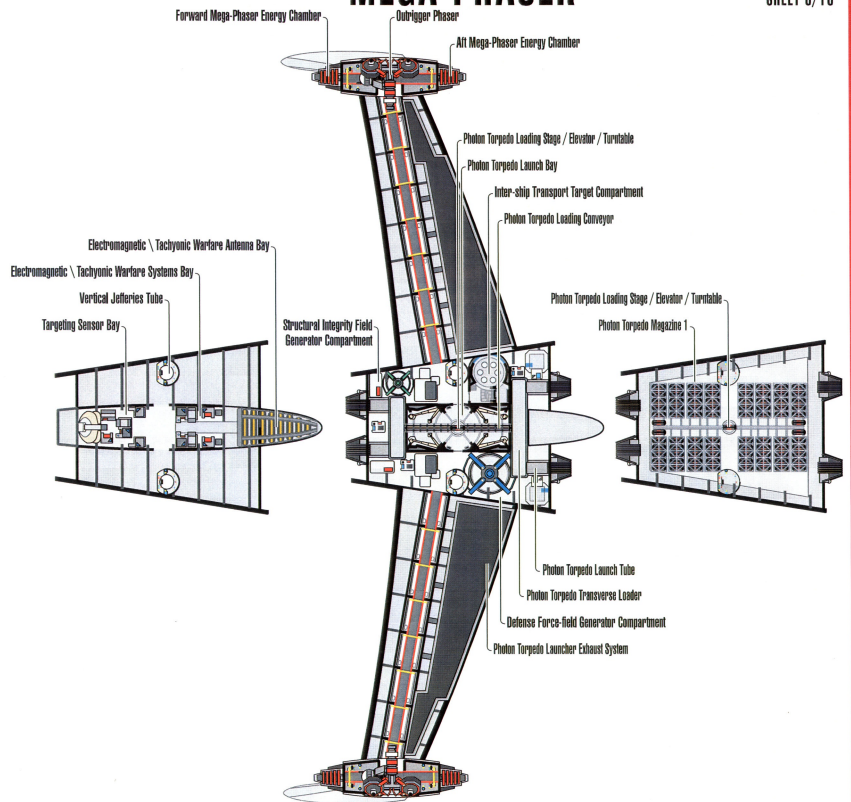
- Deck 01**
 - 1 Bridge
 - 1 Docking Port
 - 1 Dorsal Tactical Scanner / Sensor Suite
- Deck 02**
 - 1 Combat Information Center
 - Fightercontrol Control
 - Communications Control & Cryptography
 - Fleet Movement Status Display
 - Data Management
 - Internal Systems Control
 - Ship's Systems Status Display
 - Damage Control
 - 4 Head
 - 1 Computer Core
 - 1 Officer's Observation Lounge - High Bay
- Deck 03**
 - 1 Officers' Dining Room
 - 1 Officers' Galley
 - 1 Restroom
 - 1 Battery Compartment
 - 1 Officers' Observation Lounge
 - 1 Officers' Lounge

- Deck 04**
 - 14 Computer Core
 - 9 Head
 - 2 Damage Control Locker
 - 6 Flight Crew Bunkrooms (4-3-tier bunks each)
 - 2 Squadron Officer Complex
 - 3 Squadron Officer's Offices
 - 1 Pilot's Ready Room
 - 1 Flight Sergeant's Office
 - 1 Killerbots Flight Simulator Room
 - 2 Shuttle Parking Bay - Upper Level
 - 2 RCS Control Thruster Bay
 - 2 Cryogenic Gas Tankage
 - 1 Impulse Engineering Complex
 - 1 Impulse Drive Mainfield Compartment - Upper Level
 - 1 Main Engineering - Deuterium Injector Bay
- Deck 05**
 - 4 Officers' Quarters
 - 10 Junior Officer's Quarters
 - 3 Dorsal Phaser System Turret Compartment - Main Level
 - 4 Organic Synthesis Compartment
 - 2 Defense Field Generator Compartment
 - 3 Structural Integrity Field Generator Compartment
 - 28 Escape Pod
 - 1 Computer Core
 - 2 Long Range Sensor Bay - Main Level

- Deck 06**
 - 2 Unassigned Compartment
 - 2 Battery Compartment
 - 1 Damage Control & Emergency Supplies Locker
 - 2 Inorganic Synthesizer Compartment
 - 2 Long Range Sensor Bay - Upper Level
 - 1 Recreation Lounge - Upper Level
 - 1 Gymnasium - Upper Level
 - 2 Cargo Bay Control Booth
 - 1 Main Cargo Bay - Upper Level
 - 2 Shuttle parking Bay - Main Level
 - 2 Shuttlebay Environmental Systems Bay
 - 2 Shuttlebay Pressure Curtain Force-field Generator Compartment
 - 1 Impulse Drive Mainfield Compartment - Lower Level
 - 4 Shuttlecraft Tractor Beam Bay - Upper Level
- Deck 07**
 - 1 Chapel / Theatre
 - 1 Forward Observation Lounge
 - 1 Main Gangway & Retractable Sheave
 - 2 Escape Shuttle Parking Bay - Main Level
 - 1 Main Cargo Bay - Main Level
 - 2 Cargo Transporter Bay
 - 1 Emergency Transporter Room
 - 2 Airlock (Cargo Bay - Shuttlebay)
 - 1 Main Engineering - Antimatter Injector
 - 1 Deuterium Tankage - Mid Level
 - 2 Shuttlebay - Main Level
 - 1 Shuttlebay Pass-through - Main Level
 - 2 Workbee Parking Bay
 - 4 Killerbots Parking Bay - Main Level
 - 2 Ambulance Shuttle Parking Bay - Main Level
 - 1 Computer Core
 - 1 Computer Sensor
 - 1 EPS Relay / Battery Compartment

- Deck 08**
 - 2 Escape Shuttle Parking Bay - Upper Level
 - 1 Recreation Lounge - Main Level
 - 1 Gymnasium - Main Level
 - 1 Main Cargo Bay - Mid Level
 - 1 Transporter Buffer Bay
 - 1 Main Engineering - Wary Core
 - 1 Waste Recycling Compartment
 - 1 Deuterium Tankage - Upper Level
 - 2 Shuttlebay - Upper Level
 - 1 Shuttlebay Pass-through - Upper Level
 - 2 Shuttlebay Control Booth
 - 4 Killerbots Parking Bay - Main Level
 - 2 Ambulance Shuttle Parking Bay - Upper Level
 - 4 Shuttlecraft Tractor Beam Bay - Upper Level
 - 1 Main Tractor Beam
- Deck 09**
 - 10 Officer's Quarters
 - 6 Enlisted Bunkrooms (18 bunks each)
 - 14 Enlisted Bunkrooms (12 bunks each)
 - 10 Science Lab
 - 1 General Cargo Bay - High Bay
 - 4 Crew Mess/Lounge
 - 1 Office Complex
 - 2 Foodstuff Stasis Compartment
 - 1 Arboretum
 - 2 Briefing Room

MEGA-PHASER

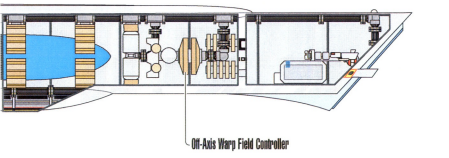
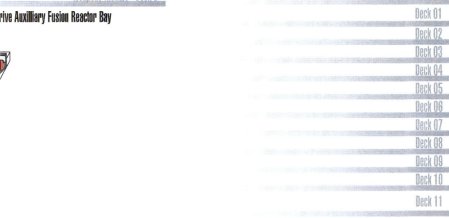


**WEAPONS POD
LEVEL A**

**WEAPONS POD
LEVEL B**

**WEAPONS POD
LEVEL C**

- Weapons Module - Deck A
- Weapons Module - Deck B
- Weapons Module - Deck C
- Weapons Module - Deck D
- Weapons Module - Deck E
- Weapons Module - Deck F
- Weapons Module - Deck G
- Weapons Module - Deck H
- Weapons Module - Deck I
- Weapons Module - Deck J
- Weapons Module - Deck K
- Weapons Module - Deck L
- Weapons Module - Deck M
- Weapons Module - Deck N
- Weapons Module - Deck O
- Weapons Module - Deck P
- Weapons Module - Deck Q
- Weapons Module - Deck R
- Weapons Module - Deck S
- Weapons Module - Deck T
- Weapons Module - Deck U
- Weapons Module - Deck V
- Weapons Module - Deck W
- Weapons Module - Deck X
- Weapons Module - Deck Y
- Weapons Module - Deck Z



- Chapel / Theatre 4
- Forward Observation Lounge 4
- Main Gangway & Retractable Stove 4
- Scape Shuttle Parking Bay - Main Level 2
- Main Cargo Bay - Main Level 2
- Large Transporter Bay 2
- Emergency Transporter Room 2
- Urlock (Cargo Bay - Shuttlebay) 1
- Main Engineering - Antimatter Injector 1
- Deuterium Tankage - Mid Level 1
- Shuttlebay - Main Level 1
- Shuttlebay Pass-through - Main Level 2
- Yorkbee Parking Bay 2
- Gilberbee Parking Bay - Main Level 2
- Imbalance Shuttle Parking Bay - Main Level 2
- UI Tactical Sensor 3
- Computer Core 3
- PS Relay / Battery Compartment 1
- Forward Observation Lounge - Sub-Level 1
- Battery Compartment 1
- Security Complex 1
- Sickbay Complex 1
- Scape Pod 1
- Cryogenic Fluid Tankage Bay 1
- Water Tankage Bay 4
- Transporter Room 4
- Landing Pad Bay 4
- RCS Control Thruster Bay - Main Level 2
- Reverse Thrust Impulse Manifold Bay 2
- Shuttle Elevator - Machinery Bay 2
- Defense Force-field Generator Bay 2
- Deuterium Processing Compartment 1
- Main Engineering - Antimatter Containment Bay 1
- Deuterium Tankage - Main Level 1
- Computer Core 1
- Battery Compartment 2
- Emergency Life-Support Compartment 2
- Plasma Relay Compartment 2
- Upper Nacelle Pylon (2) 1
- Wary Drive Plasma Feed Conduit 1
- Vertical Jefferies Tube 1
- Deck 09 1
- Ventral Observation Deck 1
- Ship's Laundry Compartment 1
- Computer Core 1
- Lower Nacelle Pylon (2) 1
- Wary Drive Plasma Feed Conduit 1
- Vertical Jefferies Tube 1
- Deck 10 1
- Tactical Scanner Bay 1
- Ventral Tactical Scanner / Sensor Suite 1
- Lateral Tactical Scanner / Sensor Suite 4
- Nacelles (2) 1
- Vertical Jefferies Tube 1
- Bussard Ionizing Beam Emitter Bay 1
- Bussard Magnetic Field Generator / Collector Bay 1
- Continuous Cycle Fractionator & Deuterium Chiller Bay 1
- Wary Coil & Plasma Injector Bay 1
- Off-Axis Field Coil Bay 1
- RCS Control Thruster Bay 1

MIRANDA

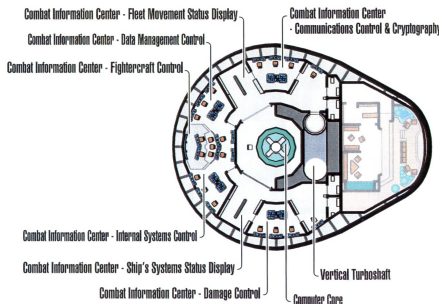
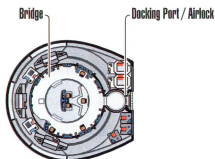
PROTOTYPE NX-1833
INTERNAL VIEWS SHEET 9/18
INTERNAL SYSTEMS

Vertical Jefferies Tube - Wary Plasma Conduit



DECK 1 & UPPER WEAPONS PYLON

DECK 2 & LOWER WEAPONS PYLON



The Parking Bays are large enough to hold four squadrons of Killer Bees attack craft, plus a compliment of standard, assault, medical and orbital shuttles. As well, two more Parking bays are located outboard and upwards from the Landing Bays, and can be accessed via Shuttle Elevators.

Section 5.01 Engineering - Wary Core
 The Type WC7492 Segmented Linear Wary Core replaced the original Tandem Wary Core in the Miranda Rebuild. This new design is capable of 150% more output at nominal levels than the Knox First Flight design. The Antimatter Processor/Containment Pods Assembly was replaced with a near-identical suite - utilizing better materials.

Section 5.0 Engineering - Wary Drive Nozzles and Support Pylons
 The Type WDN7875E Wary Drive Nozzles were redesigned for the Knox and Miranda Rebuild. Visibly different on the exterior (reflecting changes in radiation shielding and component safeguarding), the interior does not represent a radical departure from previous designs - except insofar as better components (superior manufacturing specifications and materials) to make use of the higher speeds expected to be made available from the new Wary Core's output. The WDS4456C Support Pylons are new installations created specifically for the Miranda-class.

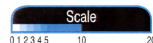
Section 5.0 Engineering - Impulse Drive
 The Impulse Drive Assembly was removed to make room for the redesigned integral Type IDA2213F in the Miranda-class Unity Hull. The new design has increased thrust, more dependable standby fusion reactors, and improved reverse thrust.

INTERNAL SYSTEMS

Section 3.2 Life Support
 Life-Support systems were replaced with the uprated Type LS9908 during the Refit 1.3. As such, except for minor repositioning, they were left untouched.

Section 4.0 Shuttle & Cargo Facilities
 The Knox-class Frigate has two side-by-side bays, each featuring a large, aft-facing space door. The port bay is dedicated to the Cargo Bay & Workbee Parking/Launch Bay. The starboard bay is the Landing Bay and Parking Bay, and carries a squadron of Killer Bee attack craft, as well as shuttles for the onboard Marine Attack Force and scientific research landing parties.

The Miranda-class Heavy Frigate has two elongated Landing Bays, plus an enormous Cargo Bay just forward. The Cargo Bay is connected to the Landing Bays via two roll-up doors - backed-up by force-field pressure curtains. This allows work bee cargo trains to fly directly from the Hangar Bay to the Cargo Bay. The Cargo Bay possesses turboshfts running through it near the aft bulkhead. Cargo pods are moved from their storage niches to the deck and back via tractor/pressor beam 'cranes' emitters, which run along tracks on the overhead. These are operated from the Quartermaster's Control Galleries on the upper forward bulkhead.



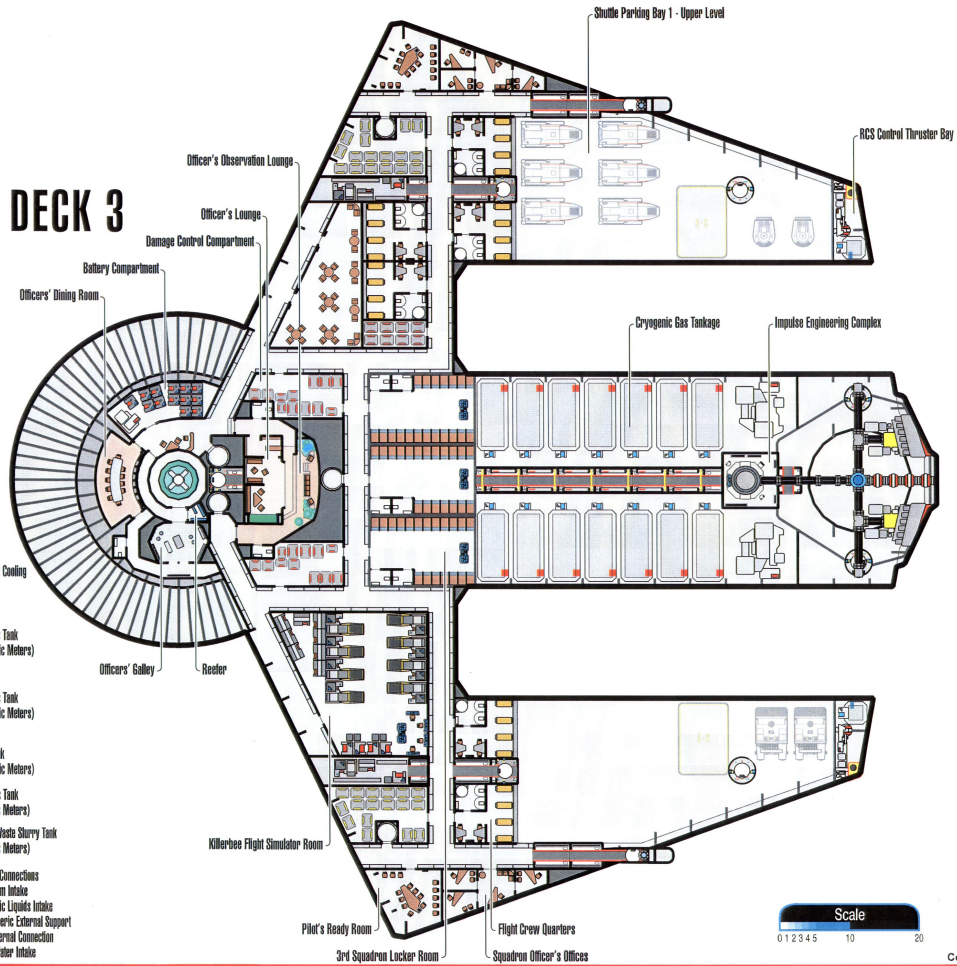
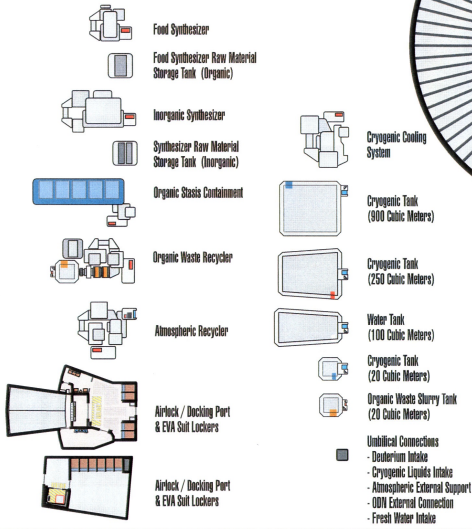
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PROTOTYPE NX-1833
INTERNAL VIEWS SHEET 10/16
SYMBOL CHART

SYMBOL CHART

LIFE SUPPORT & FLUID/GAS TANKAGE



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PROTOTYPE NX-1833
INTERNAL VIEWS SHEET 11/16
SYMBOL CHART

DECK 4

SYMBOL CHART

COMMUNICATIONS & TRANSPORTER SYSTEMS

- Subspace Radio Transceiver
- EM Radio Transceiver
- Transporter Transceiver
- Transporter Buffer
- Transporter Pad (8-personnel)
- Transporter Pad (Emergency 28-personnel)
- Transporter Pad (Cargo)

INFORMATION SYSTEMS

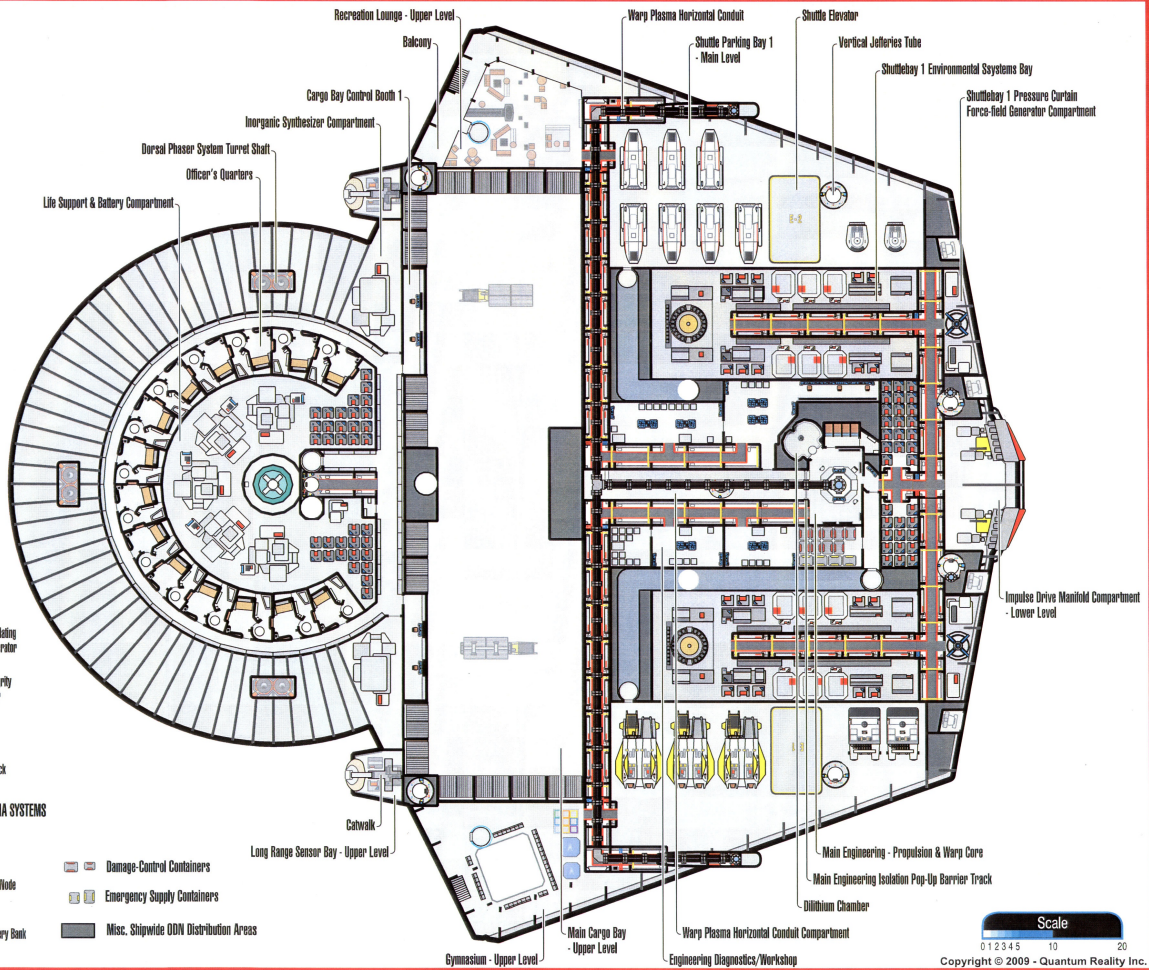
- Computer Core
- Navigation Sensor Array
- Lateral Tactical Sensor Array
- Ventral Tactical Sensor Array
- Long Range Sensor Array

GRAVITONIC SYSTEMS

- Engineering Insulating Force Field Generator
- Structural Integrity Field Generator
- Tractor Beam - Emitter - Extension Track

MAIN ENGINEERING - ELECTRO-PLASMA SYSTEMS

- EPS Relay
- EPS Distribution Node
- Cold Fusion Battery Bank
- Damage-Control Containers
- Emergency Supply Containers
- Misc. Shipwide ODN Distribution Areas



Scale

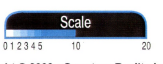
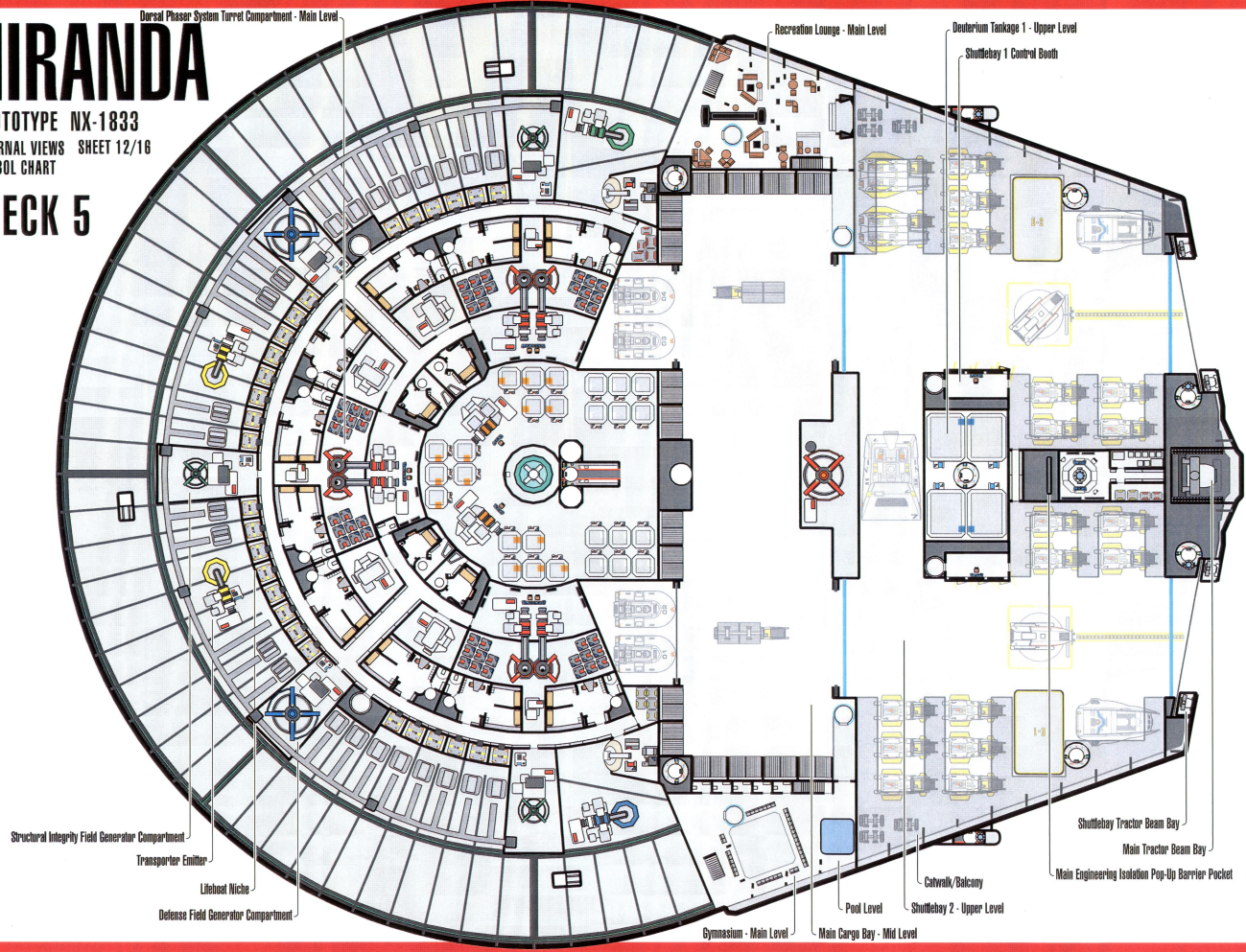
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PROTOTYPE NX-1833
INTERNAL VIEWS SHEET 12/16
SYMBOL CHART

DECK 5

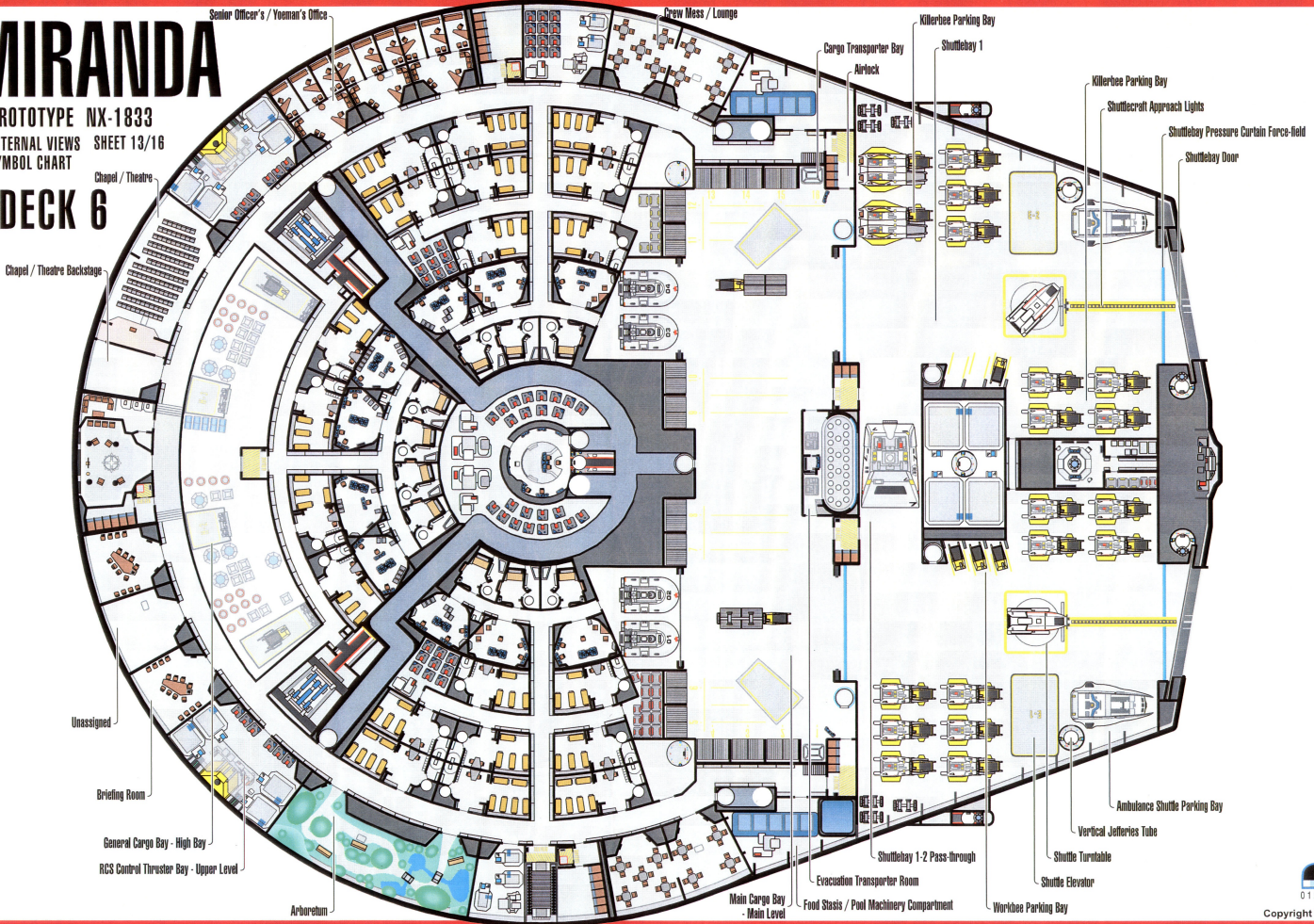


Scale
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PROTOTYPE NX-1833
INTERNAL VIEWS SHEET 13/16
SYMBOL CHART

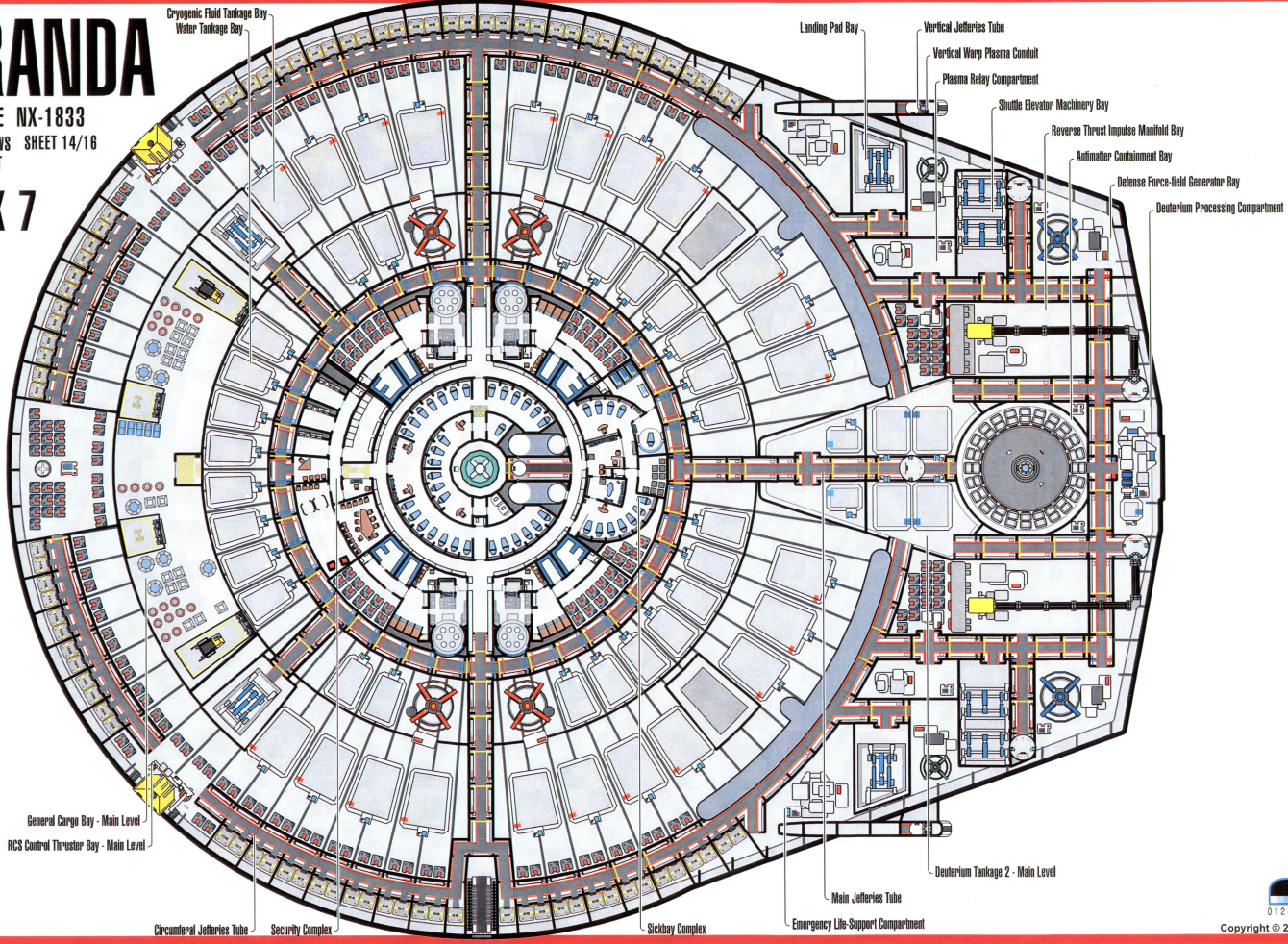
DECK 6



MIRANDA

PROTOTYPE NX-1833
INTERNAL VIEWS SHEET 14/16
SYMBOL CHART

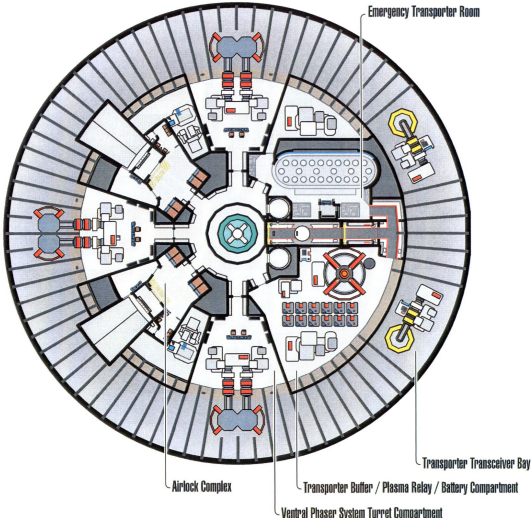
DECK 7



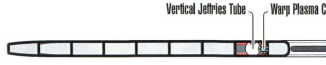
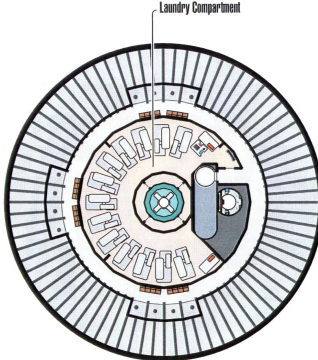
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PROTOTYPE NX-1833
INTERNAL VIEWS SHEET 15/16
SYMBOL CHART

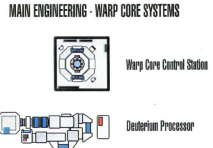
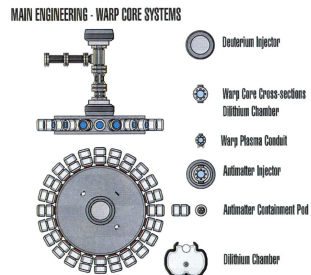
DECK 8 & UPPER NACELLE PYLON



DECK 9 & LOWER NACELLE PYLON

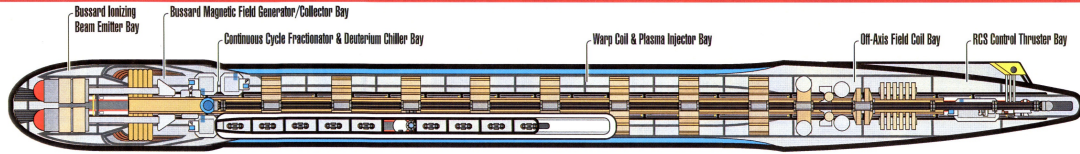


SYMBOL CHART



MIRANDA

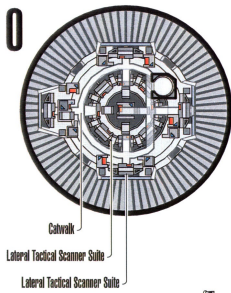
PROTOTYPE NX-1833
INTERNAL VIEWS SHEET 18/18
SYMBOL CHART



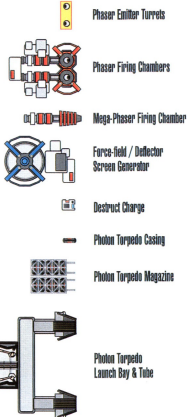
LOWER NACELLE PYLON & NACELLE

SYMBOL CHART

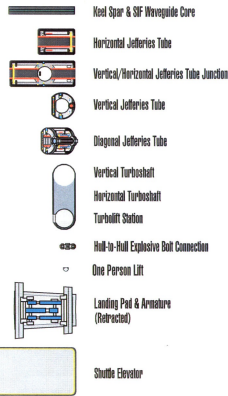
DECK 10



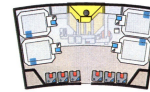
DEFENSE SYSTEMS



AUXILIARY ENGINEERING - MISC. SYSTEMS

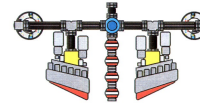


MAIN ENGINEERING - REACTION CONTROL THRUSTER SYSTEMS



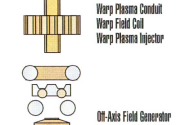
Fusion Generator (6.1 X 10¹⁰ MW)
Vectored Colouret Nozzle Plenum
Deuterium Tanks

MAIN ENGINEERING - IMPULSE DRIVE SYSTEMS



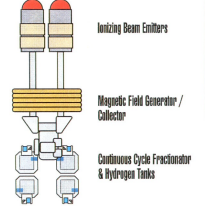
Wary Plasma Conduit
Auxiliary Fusion Generators
Impulse Exhaust Manifold

MAIN ENGINEERING - WARP DRIVE SYSTEMS



Wary Plasma Conduit
Wary Field Coil
Wary Plasma Injector
Off-Axis Field Generator

MAIN ENGINEERING - BUSSARD COLLECTION SYSTEMS



Ionizing Beam Emitters
Magnetic Field Generator / Collector
Continuous Cycle Fractionator & Hydrogen Tanks

