STAR TREK - LEONIDAG-CLASS DESTROYER

LAYOUT: NOTES, SYMBOLS, etc. COPYRIGHT 2021 - PARAMOUNT

PAGE 11 of 11 DRAWN BY: Jim Botaitis

GENERAL NO

When Matt Jefferies designed the U.S.S. ENTERPRISE, he wanted a smooth hull. He reasoned that if anything needed to be accessed, it would be done so from inside the ship. But if red rectangles and yellow circles exist on the hull, they must be there for emergency situations, quick identification, or some aspect of ship's operations.

Matt Jefferies understood that incredible energies would be required to propel a ship faster than light. If this is accomplished with antimatter, why store it in the habitable section of the ship? He and Gene Roddenberry both loved airplanes; they understood and agreed on the importance of isolating dangerous components, yet still making them accessible if required. Yes, Dilithium Crystals are stored in or near Engineering and help modify / channel the energy, but why does the antimatter need to be stored in or near Engineering?

The idea of a Bussard Ramjet was developed in 1960. This label was applied to the U.S.S. ENTERPRISE engines retroactively, after the series ended. A Bussard Ramjet compresses matter for fusion. The grey area on the engine nacelle could indicate where that matter is stored. But on the U.S.S. ENTERPRISE the matter is then mixed with antimatter. Therefore, the red rectangle on the engine nacelle could indicate where the antimatter is stored.

The red rectangle on the engine nacelle could be an access hatch, or an "Emergency Jettison" hatch. Dialogue in various episodes of STAR TREK corroborates the idea of disengaging, discarding, or jettisoning the warp engine nacelles. Dialogue also mentions ejecting the antimatter pod.

The idea of a "Warp Core" came along much later, when the ENTERPRISE was refit for the movies. Will Decker told Kirk, "This is an almost totally new ENTERPRISE." The idea of "ejecting a Warp Core" was introduced in STAR TREK THE NEXT GENERATION. These drawings make no attempt to "retcon" such concepts.

The huge pipes / conduits (visible through the grille behind Engineering) was a set built with forced perspective to suggest immense size and power. The angle on the conduits suggests they continue up the pylons of the U.S.S. ENTERPRISE.

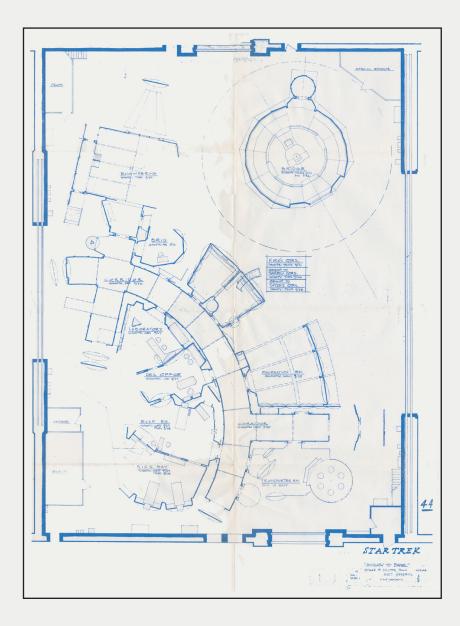
Regarding the antimatter:

CASE 1. Collect matter in the engine nacelle, send the matter to Engineering, mix it (in the habitable section of the ship) with antimatter (stored in the habitable section of the ship!), pass the energy through the Dilithium Crystals, then send the energy up to the engine nacelles to create the warp field. CASE 2. Collect matter in the engine nacelles, mix it (in the engine nacelles) with antimatter (stored in the engine nacelles), send the energy to Engineering, pass the energy through the Dilithium Crystals, then send the energy up to the engine nacelles to create the warp field.

In both cases, energy is being transmitted. There is no need to move the fuel too (as in Case 1). Case 1 is unnecessarily complicated.

Case 2 is simpler, and as a bonus, the antimatter is kept away from the habitable section of the ship.

THE DESILU STAGE AT THE SAME SCALE



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

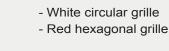
5 10 15 20 METERS

ABBREVIATIONS

PLAN SYMBOLS

• //	CHAIRS
\bigcirc	TABLES
) D	DINING TABLE
\bigcirc	SHOWER, TUB
\bigcirc	DRESSERS

BED ROOM PARTITIONS



0 TOILET, SINK

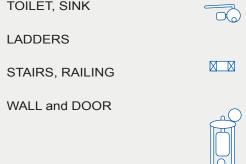
LADDERS

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EQUIPMENT

BATTERIES



AIR CONDITIONING



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

L	-	AIRLOCK
BL	-	BIO LAB
)	-	CORRIDOR
E	-	CHIEF ENGINEER
CMC	-	CHIEF MEDICAL OFFICER
N	-	CHIEF NURSE
NO	-	CHIEF NAVIGATOR'S OFFICE
0	-	COMMANDING OFFICER
00	-	COMMUNICATIONS OFFICER'S OFFICE
ON	-	CONVALESCENT WARD
s	-	CHIEF OF SECURITY
C	-	DECOMPRESSION CHAMBER
N	-	DOWN
00	-	DENTIST'S OFFICE
	-	TURBO-ELEVATOR CAR
E	_	ENVIRONMENTAL ENGINEERING
L	-	ENVIRONMENTAL SUIT LOCKER
M	-	TURBO-ELEVATOR MAINTENANCE
MS	-	ENGINEERING MACHINE SHOPS
0	-	CHIEF ENGINEER'S OFFICE
S	-	ELEVATOR STANDBY / STORAGE
0	_	FIRST OFFICER
c C	_	INSPECTION CORRIDOR
AB	_	LABORATORY
L	_	LANDING LEG
LM	_	LANDING LEG MACHINERY
1N	_	DUTY NURSE
10	_	DOCTOR'S OFFICE
/IS	_	MEDICAL SUPPLIES
BS	_	OBSTETRICS
DR	_	OPERATING ROOM
)	_	PORT (LEFT)
PLS	_	PLACES
20	_	PSYCHIATRIST'S OFFICE
WT	_	PIPING / WIRING TRUNK
***	_	STARBOARD (RIGHT)
, 50	_	SECURITY OFFICE
50 500	-	SECURITY CHIEF'S OFFICE
SCO ST	_	STORAGE
	-	
'L VR	-	
	-	WAITING ROOM

	IOILLI
-	WAITING ROOM
-	TRANSPORTER EQUIPMENT
-	TRANSPORTER ROOM

TREE, SHRUB

FOUNTAIN



XE

XR

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SANITARY WASTE RECOVERY SYSTEM

MATERIAL FABRICATION / RECLAMATION MACHINERY

STANDARD GASES

INNER FACE OF HULL (Used to show the undercut on Deck 7)

WATER PUMP MACHINERY

MEDICAL DIAGNOSTIC

CONTROL

CIRCUIT

WATER

BREAKERS

COMPUTERS

PRESSURE

SYSTEM

LAUNDRY

UNIT

CONSOLES

ISOLATION DOOR

BED