

DA Standard Design Package
Standard Design AW 78-24-27

General Notes:

1. Standard Specification Sections: The Standard Specification Sections listed below shall become part of the project specification together with the addition of other required sections as well as sections relative to site specific requirements. The Standard Specification Sections are included herein and should not be edited, changed or modified except as specifically indicated throughout the sections. The materials, equipment, requirements, etc. defined in the Standard Specification Sections are unique for this construction and are not currently available in other Military Guide Specifications. These Standard Specification Sections shall be used in the development of the project specifications in all cases no matter what design criteria is to be used.

STANDARD SPECIFICATION

SECTIONS

<u>Section Number</u>	<u>Title</u>
78-24-27-93-1	Fuel Storage Tank and Components
78-24-27-93-2	Flexible Membrane Liner (FML)
78-24-27-93-3	Exterior Coating System for Welded Steel
Petroleum Storage Tanks	

2. Army Specifications: The U.S. Army Corps of Engineers Guide Specifications (CEGS) sections listed below shall be included in the project specification for those projects using Corps of Engineers criteria. The specifications are to be included into the project specification in accordance with ER 1110-345-720. The CEGS sections to be included shall be the most current editions available with the most recent notices. Each section shall be edited to meet project requirements.

CORPS OF ENGINEERS GUIDE SPECIFICATION (CEGS) SECTIONS

<u>Section Number</u>	<u>Title</u>
CEGS 02222	Excavation, Trenching, and Backfilling of
Utility Systems	
CEGS 03100	Structural Concrete Formwork
CEGS 03200	Concrete Reinforcement
CEGS 03250	Expansion Joints, Contraction Joints, and
Waterstops	
CEGS 03300	Concrete for Building Construction
CEGS 05055	Welding, Structural
CEGS 05120	Structural Steel
CEGS 05500	Miscellaneous Metal
CEGS 07920	Caulking and Sealants
CEGS 09873	Interior Tank Coating
CEGS 09900	Painting, General
CEGS 13080	Seismic Protection for Mechanical,
Electrical Equipment	
CEGS 16415	Electrical Work, Interior
CEGS 16640	Cathodic Protection System (Sacrificial

Anode)	
CEGS 16642	Cathodic Protection System (Impressed Current)
CEGS 16665	Static Electricity Protection System

3. Navy Specification: The U.S. Navy Facilities Engineering Command Guide Specifications (NFGS) sections listed below shall be included in the project specification for those projects using Navy criteria. The NFGS sections to be included shall be the most current editions available with the most recent notices. Each section shall be edited to meet project requirements.

NAVY FACILITIES ENGINEERING COMMAND GUIDE
SPECIFICATION (NFGS) SECTIONS

<u>Section Number</u>	<u>Title</u>
NFGS 02225 for Utilities	Excavation, Backfilling and Compacting
NFGS 03300	Cast-in-Place Concrete
NFGS 05120	Structural Steel
NFGS 05500	Metal Fabrications
NFGS 07920	Sealants
NFGS 08110	Steel Doors and Frames
NFGS 09874 Petroleum Storage Tanks	Exterior Coating System for Welded Steel
NFGS 09875 Petroleum Tanks	Interior Coatings for Welded Steel
NFGS 09900	Painting
NFGS 15011	Mechanical General Requirements
NFGS 16402	Interior Wiring Systems
NFGS 16510	Interior Lighting
NFGS 16530	Exterior Lighting
NFGS 16641	Cathodic Protection by Galvanic Anodes
NFGS 16642	Cathodic Protection by Impressed Current
NFGS 16670	Lightning Protection System

4. Site Specific Specifications: In order to meet specific site specific requirement, other appropriate Military Guide Specification Sections should be edited to suit the project requirements and included in the project specification as necessary. The type of guide specifications to be included will depend on the type of criteria to be used (Army or Navy).

5. Standard Drawings: The following is a list of Standard Drawings which are to be used in coordination with the Standard Specification Sections. The drawings shall only be edited as required to meet site specific requirements and to choose particular design options.

STANDARD DRAWINGS

<u>Drawing Number</u>	<u>Title</u>
-	Cover Sheet
1.	Drawing Index

2. Plan & Pan Layout (2,500 Barrel Tank)
3. Sections, Details, & Roof Plan (2,500 Barrel Tank) 4.
Plan & Pan Layout (5,000 Barrel Tank)
5. Sections, Details, & Roof Plan (5,000 Barrel Tank) 6.
Plan & Pan Layout (10,000 Barrel Tank)
7. Sections, Details, & Roof Plan (10,000 Barrel Tank) 8.
Plan & Pan Layout (25,000 Barrel Tank)
9. Sections, Details, & Roof Plan (25,000 Barrel Tank) 10.
Plan & Pan Layout (55,000 Barrel Tank)
11. Sections, Details, & Roof Plan (55,000 Barrel Tank) 12.
Plan & Pan Layout (80,000 Barrel Tank)
13. Sections, Details, & Roof Plan (80,000 Barrel Tank) 14.
Plan & Pan Layout (100,000 Barrel Tank)
15. Sections, Details, & Roof Plan (100,000 Barrel Tank) 16.
Sections & Details
17. Roof Trusses (55K, 80K, & 100K Barrel Tank)
18. Tank Foundations
19. Tank Stairs
20. Appurtenances & Fittings
21. Appurtenances & Fittings
22. Appurtenances & Fittings
23. Floating Pan and AFFF System Details
24. Water Drawoff & Miscellaneous Details

6. Adaption: The Standard Specification Sections were computer generated using the military's "SpecsIntact" software. Each section can be transferred by floppy disk in the SpecsIntact format. The Standard Drawings have been prepared on an Intergraph Computer-Aided Design and Drafting (CADD) system. Each drawing has been prepared in a separate file and can be transferred by either magnetic tape or floppy disks.