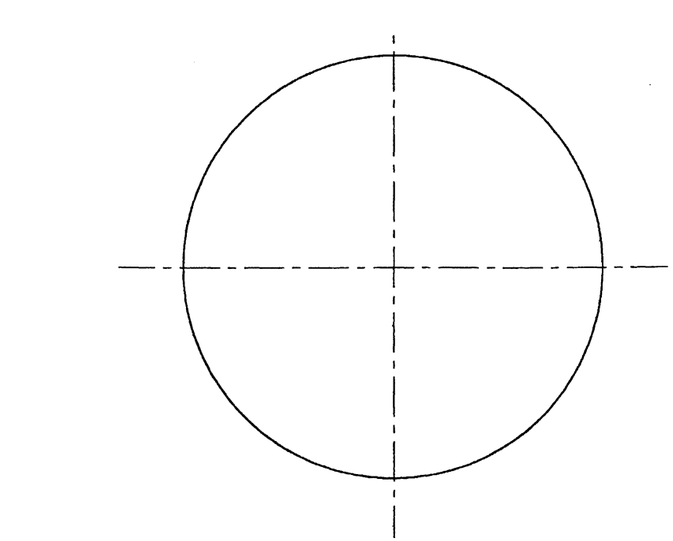
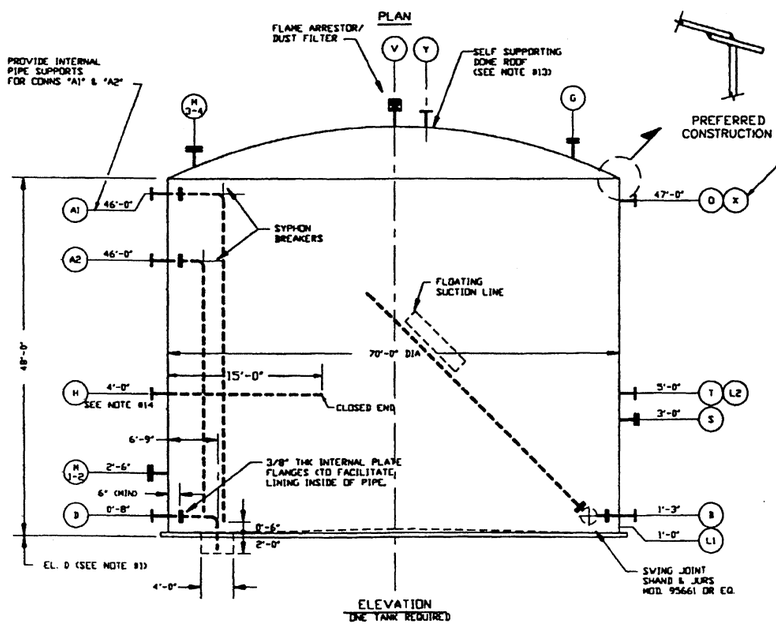
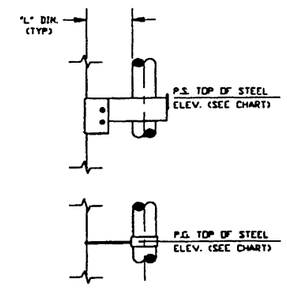


PLAN



ELEVATION
ONE TANK REQUIRED



DETAIL 1

BIDDER SHALL QUOTE ALTERNATE TANK SIZE AS FOLLOWS & PROVIDE SEPARATE COST FOR FOUNDATION.

ALTERNATE TANK SIZE:
76 Ft. 0 In. DIA x 48 Ft. 0 In. HIGH

PIPE SUPPORTS AND PIPE GUIDES

MARK	ITEM	TYPE	SIZE	"L"DIM *	ELEVATION	ORIENT.	REMARKS
A1	PS	-	6"	"Later"	"Later"	"Later"	DETAIL #1
A1	PG	-	6"	"Later"	"Later"	"Later"	DETAIL #1
A2	PS	-	6"	"Later"	"Later"	"Later"	DETAIL #1
A2	PG	-	6"	"Later"	"Later"	"Later"	DETAIL #1
O	PS	-	8"	"Later"	"Later"	"Later"	DETAIL #1
O	PG	-	8"	"Later"	"Later"	"Later"	DETAIL #1

* "L" DIM. IS DISTANCE FROM TANK OD TO BACK OF PIPE.

MARK	NO. REQ.	SIZE	RATING	FACING	PROJECTION	API 650 FIGNO.	SERVICE
Y	1	4"	-	-	API 650	3-19	SCAFFOLD CABLE SUPT
X	1	4"	150#	R.F.	API 650	3-19	FIRE PROT/FOAM CHAM
V	1	6"	150#	R.F.	API 650	3-16	VENT (NOTE #4n)
T	1	1 1/2"	150#	R.F.	35'-6"	3-5	TEMP. INDICATOR
S	1	4"	150#	R.F.	35'-7"	3-5	SPARE W/BLIND
O	1	8"	150#	R.F.	35'-8"	3-5	OVERFLOW
M3-4	2	24"	-	-	API 650	3-13	ROOF MANHOLE
M1-2	2	24"	-	-	API 650	3-4A	SHELL MANHOLE
L2	1	2"	150#	R.F.	35'-6"	3-5	LEVEL SV. (LOW-LOW)
L1	1	3"	150#	R.F.	35'-7"	3-5	LEVEL TRANSMITTER
H	1	10"	150#	R.F.	35'-9"	3-5	ELEC. HTR. INTL. PIPE
G	1	8"	150#	F.F.	API 650	3-16	GAUGE HATCH
D	1	4"	150#	R.F.	35'-7"	3-18	DRAIN (NOTE #4F)
B	1	10"	150#	R.F.	35'-8"	3-5	PUMP SUCT. FLOAT PIPE
A2	1	6"	150#	R.F.	35'-8"	3-5	MIN FLOW BP.INTL PIPE
A1	1	6"	150#	R.F.	35'-8"	3-5	FUEL OIL INTL PIPE

CONNECTION SCHEDULE

DOME ROOF TANK

DESIGN DATA

CODE (DESIGN & CONSTR.) API-650 (NOTE #8)
SPECS. SEE NOTE #11
PRESS. DESIGN ATMOS. OPER. 0 psig
TEMP. DESIGN 150 °F OPER. AMB °F
WELD INSP. BY RADIOGRAPHY SPOT
CORROSION ALLOWANCE 1/16"
SPECIFIC GRAVITY OF CONTENTS 0.85
CAPACITY 1,382,000 Gal
RATES: FILLING 580 Gpm
EMPTYING 1,200 Gpm
COIL NONE
HEATER YES, 350 KW, by others, (NOZ "H") (SEE NOTE #14)
AGITATOR NONE
PURCHASE ORDER NO.: -

MATERIALS

1. SHELL CARBON STEEL
2. BOTTOM CARBON STEEL
3. ROOF CARBON STEEL
4. NOZZLE NECKS SA-106-B
5. FLANGES SA-105
6. BOLTS (EXTERNAL) SA-193-B7/SA-194-2H
7. BOLTS (INTERNAL) SA-193-B7/SA-194-2H
8. GASKETS CARLOCK BLUEGARD 3200
9. INTERNALS (PIPE) SA-106-B
10. INTERNALS (PLATE) SA-36
11. OTHERS CARBON STEEL
12. LINING EPOXY, BTM PL, 2Ft OF SHELL INCLUDING SHELL NOZZLES, BLIND FLGS. AND INTERNAL PIPING INSIDE & OUTSIDE PER SPEC. 596001-0-SP-4-PA-3-Rev

FABRICATOR: -

NOTES

1. ELEVATIONS ARE GIVEN FROM UNDERSIDE OF BOTTOM PLATE (EL. 0'-0") TO:- (a) ℄ OF CONNECTION (b) TOP OF STL. OF PIPE SUPPORT CLIPS (c) TOP OF PLATF. FLOOR.
2. NOZZLE PROJECTIONS ARE MEASURED FROM TANK ℄ TO EXTREME FACE OF FLANGE UNLESS NOTED
3. TANK BOTTOM PLATE TO BE:- ☐ FLAT ☐ SLOPED INWARD ☒ SLOPED OUTWARD SLOPE= 3.67" PER 10'-0"
4. TANK FABRICATOR TO SUPPLY AND/OR INSTALL (SEE NOTE) ITEMS INDICATED " ☒ "
   a. ☐ GALVANIZED STRAIGHT LADDER WITH CAGE (2 REQUIRED).
   b. ☒ SPIRAL STAIRWAY WITH PLATFORM.
   c. ☒ GALVANIZED HANDRAIL AT TOP OF TANK ALL AROUND
   d. ☒ 8" (SIZE) GAUGE HATCH MATERIAL ALUMINUM TYPE (OR EQUAL) VAREC Fig. 42
   e. ☐ TYPE OF INSULATION SUPPORTS NONE
   f. ☒ BOTTOM SUMP WITH DRAIN PER API-650 Fig. 3-18.
   g. ☐ (LENGTH) INTERNAL COIL OF (SIZE-SCHEDULE) PIPE. SEE DETAIL
   h. ☒ FOAM CHAMBER
   j. ☐ TANK GAUGE
   k. ☐ PRESSURE-VACUUM VENT TYPE SETTING PRESSURE= VACUUM=
   l. ☒ (4) GROUNDING LUGS FOR #4/0 AWG
   n. ☒ WITH VAREC No. 5400 FLAME ARRESTOR & DUST FILTER
5. ☐ FABRICATOR TO SUPPLY ONLY THOSE PARTS DIRECTLY WELDED TO SHELL AND/OR ROOF.
6. PAINTING YES, PER SPEC. 596001-0-SP-4-PA-1-Rev ☒ BY FABR. ☐ BY OTHERS
7. INSULATION TO BE SUPPLIED AND INSTALLED BY OTHERS. THICKNESS= NONE
8. TANK FOUNDATION (FURNISH BY OTHERS)
9. ALL DIMENSIONS ARE IN INCHES, UNLESS OTHERWISE NOTED.
10. NOZZLE BOLT HOLES SHALL STRADDLE NORMAL CENTERLINES.
11. SPECIFICATIONS: (LATEST REVISION)
    596001-0-SP-2-SD-1-Rev FIELD ERECTED WELDED STEEL STORAGE TANKS
    596001-0-SP-2-SD-1-Rev STRUCTURAL DATA FOR MECHANICAL EQUIPMENT.
    596001-0-SP-4-PA-1-Rev PAINTING.
    596001-0-SP-4-PA-2-Rev GALVANIZING.
    596001-0-SP-4-PA-3-Rev INTERNAL LININGS.
    596001-0-SP-4-WE-4-Rev WELDING, STORAGE TANKS.
    596001-0-SP-9-DC-1-Rev SUPPLIER DRAWING AND DATA SUBMITTAL REQUIREMENTS.
12. PIPE SUPPORTS AND PIPE GUIDES TO BE DESIGNED, FURNISHED AND INSTALLED BY TANK FABRICATOR FOR CONNS. "A1", "A2" & "O". GALVANIZE PER SPECIFICATION. FOR LOADING CALCULATIONS, ASSUME PIPE IS FILLED WITH WATER FROM NOZZLE CENTERLINE TO 1'-0" FROM TANK BOTTOM.
13. ROOF PLATE SHALL BE BUTT WELDED OR SEAL WELDED UNDERSIDE IF THE PLATES OVERLAP.
14. ELECTRIC HEATER WITH THERMOSTAT (BY OTHERS) SHALL BE REMOVABLE FROM NOZZLE "H" WITHOUT DRAINING TANK. VENDOR TO PROVIDE AND INSTALL INTERNAL SUPPORTS.

Figure B-25

USE FOR ILLUSTRATION ONLY-NOT FOR DESIGN

REV.	DATE	REVISION DESCRIPTION	DES. CHK.	APPROVED
A	1/12/99	ISSUED FOR PLANNING	RAM	

REV.	DATE	REVISION DESCRIPTION	DES. CHK.	APPROVED

DWG NO	REFERENCE DRAWINGS

DUKE/FLUOR DANIEL
POWER ENGINEERING CONSTRUCTION OPERATIONS & MAINTENANCE

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DESIGNED BY: R MARTIN
CHECKED BY:
SUPERVISOR: R WLODZIK — APP. DATE
LEAD ENGR./SPECIALIST — APP. DATE
PROJECT — APP. DATE
CLIENT — APP. DATE

TYPICAL TANK

SCALE: NONE
DRAWING NUMBER: SU-4-SW-1
REV: A

DATE-TIME: MANUAL CHANGES MADE: YES ☐ NO ☐ DWG.FILE UPDATED: YES ☐ NO ☐ MODEL UPDATED: YES ☐ NO ☐

DIST. CODE WRK. PKG. CADD FILE No. SUSV1.dgn CONTRACT PKG.