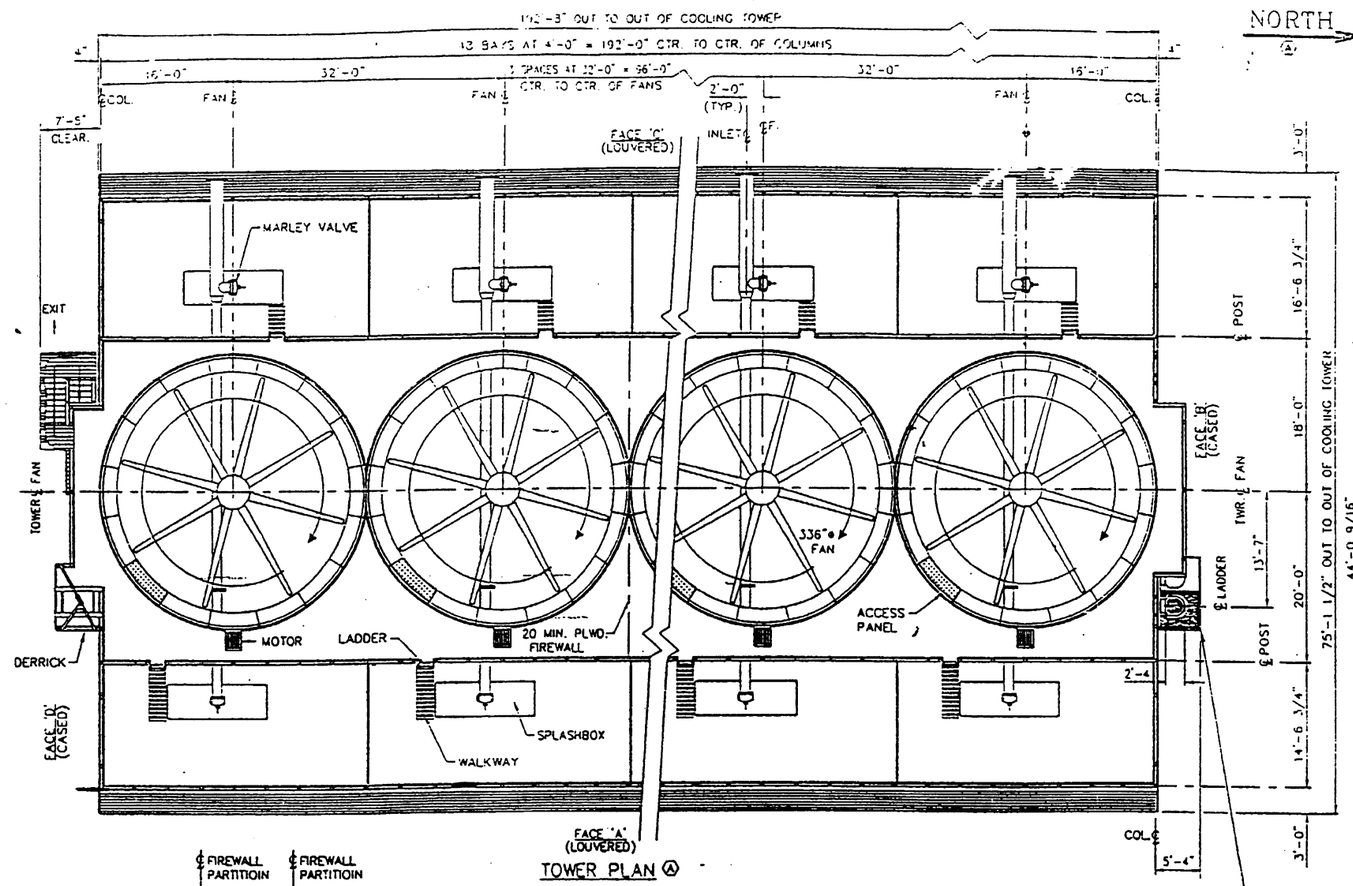
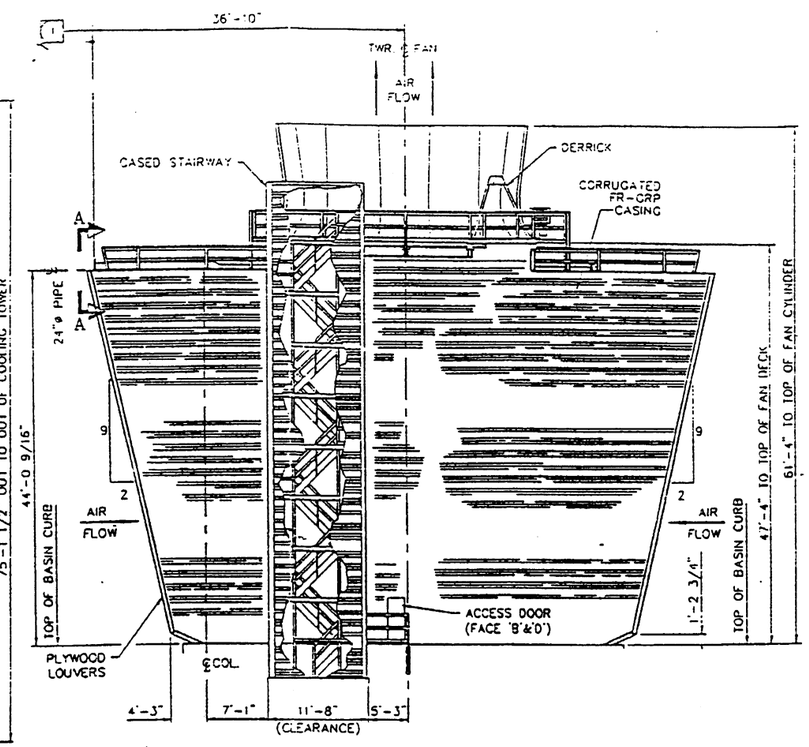
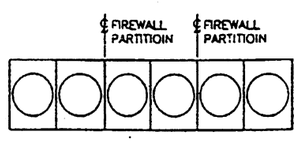


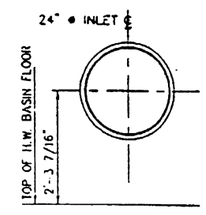
TOWER PLAN Ⓐ



TOWER ELEVATION – FACE 'D' Ⓐ



FIREWALL PARTITION ORIENTATION Ⓐ



SECTION A–A Ⓐ

GENERAL NOTES

1. MARLEY PIPING STOPS AT THE FACE OF A 24" DIAMETER FLAT FACED R.T.R. FLANGE WHICH IS 1 1/8" (+1/2"-1/8") THICK. THERE ARE 20-1 3/8" DIAMETER BOLT HOLES ON A 29 1/2" DIA. BOLT CIRCLE. BOLT HOLES STRADDLE CENTERLINES. PURCHASER TO FURNISH CONNECTING HARDWARE INCLUDING STANDARD CUT WASHERS FOR R.T.R. FLANGE. FLANGE DRILLING CONFORMS TO CLASS 125 LB. A.N.S.I. B16.1 SPECS. GASKET TO BE 3/8" THICK FULL FACED SOFT NEOPRENE OF SHORE DUROMETER 50 +/- 5 (FURNISHED BY MARLEY).

Ⓐ CAUTION: MARLEY PIPE SUPPORTS ARE DESIGNED TO SUPPORT ONLY THE WEIGHT OF PIPE AND WATER WITHIN THE LIMITS OF THE COOLING TOWER PLUS HALF THE WEIGHT OF THE FLEXIBLE COUPLING. THE PIPING DETAILER MUST PROVIDE SUPPORT FOR ALL PIPEWORK BEYOND THE LIMITS OF THE FLEXIBLE CONNECTION PLUS HALF THE WEIGHT OF THE FLEXIBLE COUPLING. CARE MUST BE TAKEN WHEN INSTALLING CONNECTING PIPING TO AVOID OVERLOADING OR DAMAGING THE TOWER STRUCTURE.

MAXIMUM START-UP PRESSURE AT INLET = 10 P.S.I.
MAXIMUM OPERATING PRESSURE AT INLET = 5 P.S.I.

2) INSTALLER NOTE: CONNECTING PIPING MUST BE PROPERLY ALIGNED AT INSTALLATION TO AVOID DAMAGING OR MOVING THE R.T.R. PIPE WHEN PULLING UP THE FLANGE BOLTS.

3) REDUCED WATER FLOW OVER A COOLING TOWER IN COLD CLIMATES CAN RESULT IN ICE FORMATION IN THE FILL IF THE PURCHASER'S APPLICATION REQUIRES A BYPASS SYSTEM. ITS DESIGN MUST BE REVIEWED BY THE MARLEY COMPANY.

4) HORIZONTAL LOAD PERPENDICULAR TO PIPE AXIS (Fx = +/- 100 LB.)
VERTICAL LOAD (Fy = 120 LB. DOWNWARD. Fy = 900 LB. UPWARD
HORIZONTAL LOAD PARALLEL TO PIPE AXIS (Fz = +/- 330 LB.)
MAXIMUM HORIZONTAL DISPLACEMENT PERPENDICULAR TO PIPE AXIS +/- 1/8".
MAXIMUM VERTICAL DISPLACEMENT + 1/4", - 1/8".
MAXIMUM DISPLACEMENT PARALLEL TO PIPE AXIS +/- 1/16".

Figure B-23

USE FOR ILLUSTRATION ONLY-NOT FOR DESIGN

REV	DATE	REVISION DESCRIPTION	DES	APPROVED
A	3/12/99	ISSUED FOR PLANNING	RRM	

REV	DATE	REVISION DESCRIPTION	DES	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
LEAD ENGINEER OPERATIONS:
PROJECT:
CLIENT:

TYPICAL COOLING TOWER

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

CONTRACT PPG