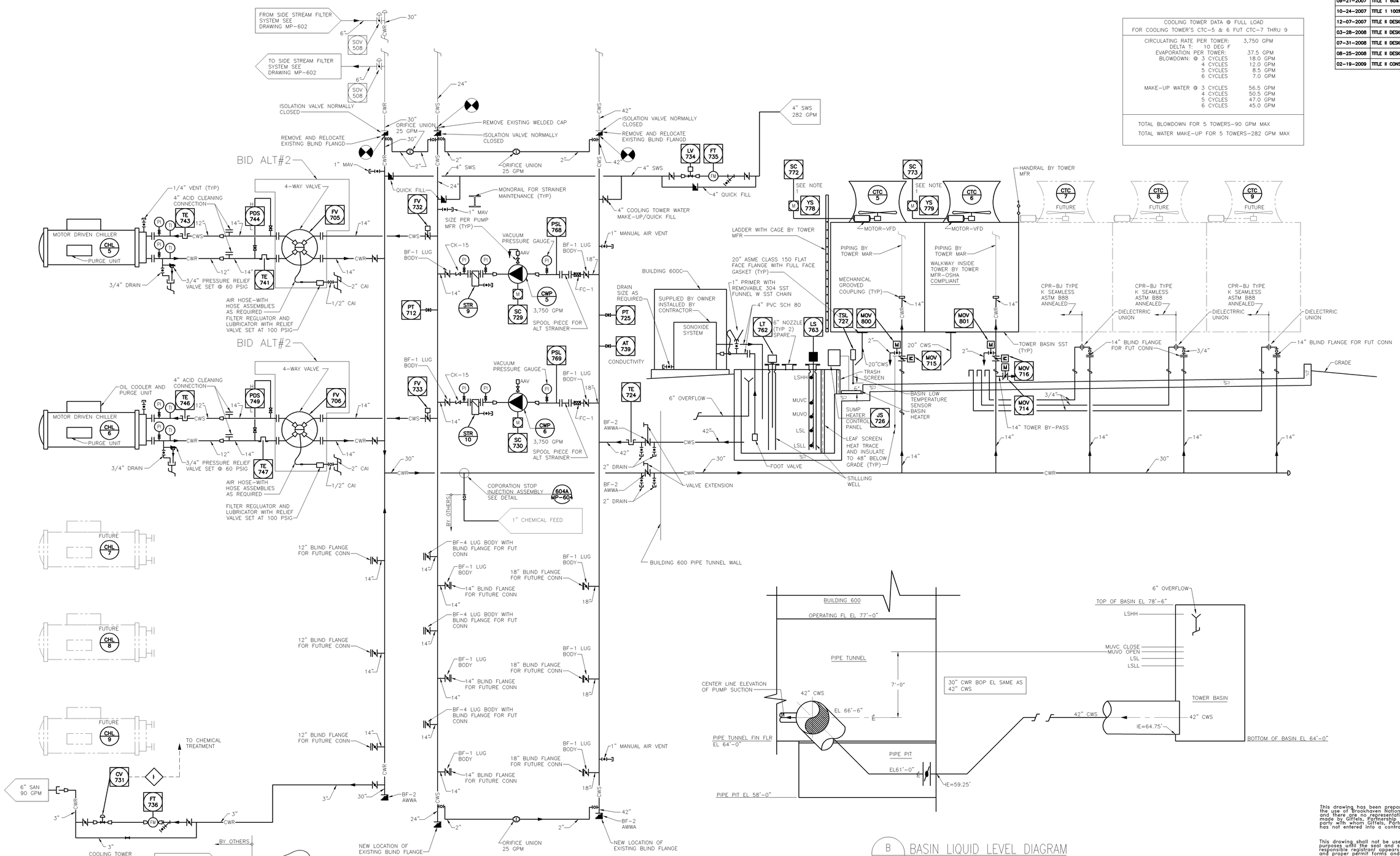
Date (mmm dd yyyy)	Issued For	Rev.
09-21-2007	TITLE 1 60% REVIEW	A
10-24-2007	TITLE 1 100% COMPLETE	B
12-07-2007	TITLE II DESIGN 30% REVIEW SUBMITTAL	C
03-28-2008	TITLE II DESIGN 60% REVIEW SUBMITTAL	D
07-31-2008	TITLE II DESIGN 90% REVIEW SUBMITTAL	E
08-25-2008	TITLE II DESIGN 100% OWNER REVIEW	F
02-19-2009	TITLE II CONSTRUCTION BID ISSUE	0

COOLING TOWER DATA @ FULL LOAD
FOR COOLING TOWER'S CTC-5 & 6 FUT CTC-7 THRU 9

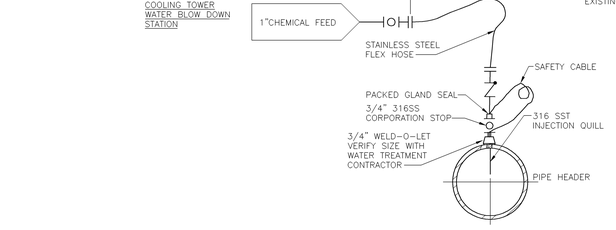
CIRCULATING RATE PER TOWER:		3,750 GPM
DELTA T:	10 DEG F	
EVAPORATION PER TOWER:		37.5 GPM
BLOWDOWN: @	3 CYCLES	18.0 GPM
	4 CYCLES	12.0 GPM
	5 CYCLES	8.5 GPM
	6 CYCLES	7.0 GPM
MAKE-UP WATER @	3 CYCLES	56.5 GPM
	4 CYCLES	50.5 GPM
	5 CYCLES	47.0 GPM
	6 CYCLES	45.0 GPM

TOTAL BLOWDOWN FOR 5 TOWERS-90 GPM MAX
TOTAL WATER MAKE-UP FOR 5 TOWERS-282 GPM MAX



A CONDENSER WATER FLOW DIAGRAM
NO SCALE

B BASIN LIQUID LEVEL DIAGRAM
NO SCALE



604A CORPORATION STOP INJECTION ASSEMBLY DETAIL
MP-604 NO SCALE

This drawing has been prepared solely for the use of Brookhaven National Laboratory, and there are no representations of any kind made by Giffels, Partnership to any party with whom Giffels, Partnership has not entered into a contract.

This drawing shall not be used for construction purposes until the seal and signature of the responsible registrant appears on the drawing, and proper permit forms and related fees are transmitted by the Owner, Owner's Agent or Contractor to the Authority Having Jurisdiction.

NOTE:

1. HARDWIRED COMMANDS & STATUS OF TOWER FANS. PROVIDE VFD DATA CONTROLNET, SEE DWG M-620 DETAIL A.

LEGEND
EXISTING
NEW
FUTURE

JOB NO.	SHEET	NO.	REVISION	DATE	DWN.	APP'D.	QA
		A					

BROOKHAVEN NATIONAL LABORATORY
UNDER CONTRACT WITH
UNITED STATES DEPARTMENT OF ENERGY
PLANT ENGINEERING DIVISION
UPTON, NEW YORK 11973

Giffels, Partnership
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Approved By: B NEWMAN
Project Manager: G. KAPLAN
Project Engineer/Architect: E PIENDEL
Project No. SF070003

JOB TITLE: CENTRAL CHILLED WATER FACILITY PHASE II			DWG. TITLE: CONDENSER WATER FLOW DIAGRAM	
ILR,GPP,LNI, HEM	DATE		ACCT. NO.	SHEET OF
SCALE: NO SCALE	DWN. BY: EP	REV'D BY: BN	JOB NO. 11705	DWG. NO. MP-604
ESHQ RISK LEVEL	APP'D. BY: W HARRISON		BLDG. NO. 600	
PATH:				