ACTIVE CHILLED BEAMS

MARK ACB	ROOM NAME	ROOM NUMBER	DIMENSIONS				PRIMARY AIR PER BEAM								COOLING COIL PER BEAM							HEATING COIL PER BEAM						
			QTY OF CHILLED BEAMS	UNIT LENGTH (FT)	UNIT WIDTH (IN.)	2 OR 4 PIPE	PRIMARY AIR FLOW (CFM)	TOTAL AIR FLOW (CFM)	AIR INLET SIZE (IN.)	AIR INLET LOCATION	EAT COOLING/ HEATING (DEGF)	THROW PATTERN	MAX NC	MAX APD (IN.)	NO. OF COIL CKTS/ BEAM	COIL LENGTH (FT)	TOTAL CAPACITY (BTUH)	EWT (DEGF)	WATER FLOW PER BEAM (GPM)	CONTROL VALVE (GPM)	MAX WPD (FT)	TOTAL CAPACITY (BTUH)	EWT (DEGF)	LWT (DEGF)	WATER FLOW PER BEAM (GPM)	CONTROL VALVE (GPM)	BASED ON DADANCO	REMARKS
ACB-O101A&B	ADMINISTRATION	0101	2	4	4-9/16"	4	60	120	6	FRONT	55/55	1-WAY	30	0.4	1	3.5	4,080	58	0.5	1.0	10.0	3,880	120	99	0.4	0.7	ACB30	
ACB-O102A - C	DIRECTORS OFFICE	0102	3	6	4-9/16"	4	45	135	6	FRONT	55/55	1-WAY	30	0.5	1	5.5	4,224	58	1.1	3.3	10.0	4,989	120	96	0.4	1.2	ACB30	
ACB-O103	CONFERENCE	0103	1	4	24	4	90	90	8	FRONT	55/55	2-WAY	30	0.3	1	3.5	5,366	58	0.5	0.5	10.0	3,881	120	97	0.3	0.3	ACB40	
ACB-O104A&B	CONFERENCE	0104	2	4	24	4	90	180	8	FRONT	55/55	2-WAY	30	0.3	1	3.5	5,366	58	0.5	1.0	10.0	3,881	120	97	0.3	0.7	ACB40	
ACB-O105	OFFICE	0105	1	6	4-9/16"	4	55	55	6	FRONT	55/55	1-WAY	30	0.6	1	3.5	5,050	58	1.4	1.4	10.0	5,304	120	94	0.4	0.4	ACB30	
ACB-O106	OFFICE	0106	1	6	4-9/16"	4	55	55	6	FRONT	55/55	1-WAY	30	0.6	1	3.5	5,050	58	1.4	1.4	10.0	5,304	120	94	0.4	0.4	ACB30	
ACB-O107	OFFICE	0107	1	6	4-9/16"	4	55	55	6	FRONT	55/55	1-WAY	30	0.6	1	3.5	5,050	58	1.4	1.4	10.0	5,304	120	94	0.4	0.4	ACB30	
ACB-O108A&B	OFFICE	0108	2	4	4-9/16"	4	55	110	6	FRONT	55/55	1-WAY	30	0.7	1	3.5	4,737	58	2.4	4.8	10.0	4,444	120	97	0.4	0.8	ACB30	
ACB-O109	OFFICE	0109	1	2	4-9/16"	4	50	50	6	FRONT	55/55	1-WAY	30	0.7	1	1.5	3,119	58	0.5	0.5	10.0	2,381	120	99	0.5	0.5	ACB30	
ACB-O110	OFFICE	0110	1	2	4-9/16"	4	50	50	6	FRONT	55/55	sa	30	0.7	1	1.5	3,119	58	0.5	0.5	10.0	2,381	120	99	0.5	0.5	ACB30	
ACB-O111A - C	OPEN OFFICE	0111	3	6	24	4	60	180	6	FRONT	55/55	2-WAY	30	0.6	1	5.5	4,688	58	1.4	4.2	10.0	4,375	120	97	0.4	1.1	ACB40	
ACB-O112	OFFICE	0112	1	6	4-9/16"	4	50	50	6	FRONT	55/55	1-WAY	30	0.4	1	3.5	4,446	58	1.6	1.6	10.0	4,726	120	96	0.4	0.4	ACB30	
ACB-O113	OFFICE	0113	1	6	4-9/16"	4	50	50	6	FRONT	55/55	1-WAY	30	0.4	1	3.5	4,446	58	1.6	1.6	10.0	4,726	120	96	0.4	0.4	ACB30	
ACB-O120	OFFICE	0120	1	4	4-9/16"	4	50	50	6	FRONT	55/55	1-WAY	30	0.4	1	1.5	3,119	58	1.2	1.2	10.0	2,381	120	103	0.3	0.3	ACB30	
ACB-O121	OFFICE	0121	1	4	4-9/16"	4	50	50	6	FRONT	55/55	1-WAY	30	0.5	1	1.5	3,119	58	1.2	1.2	10.0	2,381	120	106	0.3	0.3	ACB30	
ACB-O122A&B	OFFICE	0122	2	4	4-9/16"	4	55	110	6	FRONT	55/55	1-WAY	30	0.6	1	3.5	4,512	58	1.6	3.2	10.0	4,222	120	98	0.4	0.8	ACB30	
ACB-O123	OFFICE	0123	1	6	4-9/16"	4	55	55	6	FRONT	55/55	1-WAY	30	0.6	1	3.5	5,050	58	1.4	1.4	10.0	5,304	120	94	0.4	0.4	ACB30	
ACB-O124	OFFICE	0124	1	6	4-9/16"	4	55	55	6	FRONT	55/55	1-WAY	30	0.6	1	3.5	5,050	58	1.4	1.4	10.0	5,304	120	94	0.4	0.4	ACB30	
ACB-O125	OFFICE	0125	1	6	4-9/16"	4	55	55	6	FRONT	55/55	1-WAY	30	0.6	1	3.5	5,050	58	1.4	1.4	10.0	5,304	120	94	0.4	0.4	ACB30	
ACB-O126	OFFICE	0126	1	6	4-9/16"	4	50	50	6	FRONT	55/55	1-WAY	30	0.7	1	3.5	4,852	58	1.4	1.4	10.0	5,377	120	94	0.4	0.4	ACB30	
ACB-O127A&B	OFFICE	0127	2	4	4-9/16"	4	50	100	6	FRONT	55/55	1-WAY	30	0.7	1	5.5	4,737	58	1.3	2.6	10.0	4,444	120	97	0.4	0.8	ACB30	
ACB-O128	OFFICE	0128	1	4	4-9/16"	4	50	50	6	FRONT	55/55	1-WAY	30	0.4	1	1.5	3,119	58	0.5	0.5	10.0	2,381	120	106	0.3	0.3	ACB30	
ACB-O129	OFFICE	0129	1	4	4-9/16"	4	50	50	6	FRONT	55/55	1-WAY	30	0.4	1	1.5	3,119	58	0.5	0.5	10.0	2,381	120	106	0.3	0.3	ACB30	
ACB-O130A - D	OFFICE	0130	4	6	24	4	45	180	6	FRONT	55/55	2-WAY	30	0.3	1	5.5	4,868	58	1.3	5.2	10.0	4,313	120	97	0.4	1.5	ACB40	
ACB-O140A - C	BREAKROOM	0140	3	6	4-9/16"	4	75	225	6	FRONT	55/55	1-WAY	30	0.3	1	3.5	5,020	58	0.5	1.5	10.0	4,720	120	94	0.4	1.1	ACB30	
ACB-O150	OFFICE	0150	1	4	4-9/16"	4	90	90	6	FRONT	55/55	1-WAY	30	0.3	1	3.5	5,366	58	0.5	0.5	10.0	3,881	120	97	0.3	0.3	ACB30	
ACB-O151	OFFICE	0151	1	4	4-9/16"	4	50	50	6	FRONT	55/55	1-WAY	30	0.1	1	3.5	3,302	58	0.5	0.5	10.0	2,841	120	104	0.4	0.4	ACB30	
ACB-O152A - B	OFFICE	0152	2	4	4-9/16"	4	55	110	6	FRONT	55/55	1-WAY	30	0.6	1	5.5	4,512	58	1.6	3.2	10.0	4,222	120	98	0.4	0.8	ACB30	
ACB-O153	OFFICE	0153	1	6	4-9/16"	4	55	55	6	FRONT	55/55	1-WAY	30	0.6	1	5.5	5,050	58	1.4	1.4	10.0	5,304	120	94	0.4	0.4	ACB30	
ACB-O154	OFFICE	0154	1	6	4-9/16"	4	70	70	6	FRONT	55/55	1-WAY	30	0.6	1	5.5	5,050	58	1.4	1.4	10.0	5,304	120	94	0.4	0.4	ACB30	
ACB-O155	OFFICE	0155	1	6	4-9/16"	4	55	55	6	FRONT	55/55	1-WAY	30	0.6	1	5.5	5,050	58	1.4	1.4	10.0	5,304	120	94	0.4	0.4	ACB30	
ACB-O156	OFFICE	0156	1	6	4-9/16"	4	55	55	6	FRONT	55/55	1-WAY	30	0.6	1	5.5	5,050	58	1.4	1.4	10.0	5,304	120	94	0.4	0.4	ACB30	
ACB-O157A - B	OFFICE	0157	2	6	4-9/16"	4	50	100	6	FRONT	55/55	1-WAY	30	0.6	1	5.5	4,687	58	1.3	2.6	10.0	5,190	120	94	0.4	0.8	ACB30	
ACB-O158A - C	CONFERENCE	0158	3	4	4-9/16"	4	90	270	6	FRONT	55/55	1-WAY	30	0.3	1	3.5	5,366	58	0.5	1.5	10.0	3,881	120	97	0.3	1.0	ACB30	
ACB-O159A - D	OPEN OFFICE	0159	4	6	24	4	80	320	6	FRONT	55/55	2-WAY	30	0.4	1	3.5	5,959	58	1.7	6.8	10.0	4,770	120	94	0.4	1.5	ACB40	
ACB-O160	OFFICE	0160	1	6	4-9/16"	4	50	50	6	FRONT	55/55	1-WAY	30	0.4	1	5.5	4,446	58	1.6	1.6	10.0	4,726	120	96	0.4	0.4	ACB30	
ACB-O161	OFFICE	0161	1	6	4-9/16"	4	50	50	6	FRONT	55/55	1-WAY	30	0.4	1	5.5	4,446	58	1.6	1.6	10.0	4,726	120	96	0.4	0.4	ACB30	
ACB-O162	OFFICE	0162	1	2	4-9/16"	4	50	50	6	FRONT	55/55	1-WAY	30	0.6	1	3.5	3,119	58	0.5	0.5	10.0	2,381	120	106	0.3	0.3	ACB30	
ACB-O163	OFFICE	0163	1	2	4-9/16"	4	50	50	6	FRONT	55/55	1-WAY	30	0.6	1	3.5	3,119	58	0.5	0.5	10.0	2,381	120	106	0.3	0.3	ACB30	
ACB-O164A&B	OFFICE	0164	2	4	24	4	55	110	6	FRONT	55/55	1-WAY	30	0.7	1	5.5	4,512	58	1.6	3.2	10.0	4,222	120	98	0.4	0.8	ACB30	
ACB-O165	OFFICE	0165	1	6	4-9/16"	4	55	55	6	FRONT	55/55	1-WAY	30	0.6	1	5.5	5,050	58	1.4	1.4	10.0	5,304	120	94	0.4	0.4	ACB30	
ACB-O166	OFFICE	0166	1	6	4-9/16"	4	55	55	6	FRONT	55/55	1-WAY	30	0.6	1	5.5	5,050	58	1.4	1.4	10.0	5,304	120	94	0.4	0.4	ACB30	
ACB-O167	OFFICE	0167	1	6	4-9/16"	4	55	55	6	FRONT	55/55	1-WAY	30	0.6	1	5.5	5,050	58	1.4	1.4	10.0	5,304	120	94	0.4	0.4	ACB30	
ACB-O168	OFFICE	0168	1	6	4-9/16"	4	55	55	6	FRONT	55/55	1-WAY	30	0.6	1	5.5	5,050	58	1.4	1.4	10.0	5,304	120	94	0.4	0.4	ACB30	
ACB-O169A	OFFICE	0169	1	6	4-9/16"	4	55	55	6	FRONT	55/55	1-WAY	30	0.3	1	5.5	3,309	58	1.1	1.1	10.0	4,025	120	100	0.4	0.4	ACB30	
ACB-O170A -H	OPEN OFFICE	0170	8	6	24	4	70	560	6	FRONT	55/55	1-WAY	30	0.2	1	3.5	5,277	58	1.4	11.2	10.0	4,560	120	95	0.4	3.0	ACB40	
ACB-171	OFFICE	171E	1	6	4-9/16"	4	55	55	6	FRONT	55/55	1-WAY	30	0.6	1	3.5	5,050	58	1.4	1.4	10.0	5,304	120	93	0.4	0.4	ACB30	
ACB-172A&B	OFFICE	172E	2	6	4-9/16"	4	35	70	6	FRONT	55/55	1-WAY	30	0.6	1	3.5	5,789	58	1.1	2.2	10.0	4,025	120	93	0.3	0.6	ACB30	
ACB-173	OFFICE	173E	1	6	4-9/16"	4	55	55	6	FRONT	55/55	1-WAY	30	0.7	1	5.5	5,050	58	1.4	1.4	10.0	5,304	120	91	0.4	0.4	ACB30	
ACB-174	OFFICE	174E	1	6	4-9/16"	4	55	55	6	FRONT	55/55	1-WAY	30	0.6	1	3.5	5,789	58	1.1	1.1	10.0	4,025	120	93	0.3	0.3	ACB30	
ACB-L023 A - D	SG008	L023	4	6	24	4	100	400	6	FRONT	55/55	1-WAY	30	0.3	1	5.5	5,366	58	1.6	6.4	10.0	4,313	120	97	0.4	1.5	ACB40	
ACB-L021 A -D	SG002	L021	4	6	24	4	100	400	6	FRONT	55/55	1-WAY	30	0.3	1	5.5	5,366	58	1.6	6.4	10.0	4,313	120	97	0.4	1.5	ACB40	
ACB-L019 A - D	SG006-007	L019	4	6	24	4	100	400	6	FRONT	55/55	1-WAY	30	0.3	1	5.5	5,366	58	1.6	6.4	10.0	4,313	120	97	0.4	1.5	ACB40	

SMITHGROUP
architecture engineering interiors planning
SMITHGROUP, INC
35 EAST WACKER
SUITE 2200
CHICAGO, IL 60601
T 312.641.0770
F 312.641.6728
www.smithgroup.com

JJR
landscape architecture
planning
urban design
civil engineering
environmental science
JJR, LLC
35 EAST WACKER DRIVE
SUITE 2200
CHICAGO, ILLINOIS 60601
312.641.0510 T
312.641.0668 F
www.jjr-us.com

AEI Affiliated Engineers
Affiliated Engineers, Inc.
5802 Research Park Boulevard
Madison, Wisconsin 53719
Tel 608.238.2616 Fax 608.238.2614

Thornton Tomasetti
Thornton Tomasetti, Inc.
330 N. Wabash Avenue, Suite 1500
Chicago IL 60611-7622
T 312.596.2000 F 312.596.2001

TERRA ENGINEERING LTD.
225 West Ohio Street, 4th Floor
Chicago, Illinois 60654
T:(312)467-0123 F:(312) 467-0220

SEALS AND SIGNATURES

REV. NO.	DESCRIPTION	BY	APVD	DATE
	ISSUED FOR CONSTRUCTION			07/03/12

Argonne NATIONAL LABORATORY

FMS
Facilities Management Services

PROJECT TITLE ADVANCED PROTEIN CRYSTALLIZATION FACILITY, ARGONNE NATIONAL LABORATORY

PROJECT NO 08541-00

DRAWING TITLE

AIRSIDE EQUIPMENT SCHEDULE

DESIGNED SPF	A/E CADD FILE MH7.0.4	FACILITY NO(S)
DRAWN LW	A/E DWG. NO. MH7.0.4	
CHECKED SPF	CAD NO:	
PROJECT MANAGER ANL - JESSE ADAMS DATE - 04/27/11	DWG STATE	
	BIND ORDER	
FACILITY DOCUMENT NUMBER J446-101-W- MH7.0.4		REV. NO.

Plot Date: 6/29/2012 8:16:48 AM