
SECTION 00 91 13
ADDENDUM NO. 2

DATE: September 3, 2015

RE: BBS Level 6 Vivarium Buildout
UT Behavioral and Biomedical Science Building (BBS)
WHR Project No. G15303-00

FROM: WHR Architects, Inc.
1111 Louisiana, 26th Floor
Houston, TX 77002

TO: Invited Bidders

This Addendum forms a part of the Contract Documents and modifies the original Bidding Documents dated August 12, 2015 as noted below.

This Addendum consists of 2 page plus attachments.

CHANGES TO DRAWINGS:

- 2.01 Sheet AD106, Delete Keynote 133, not used
- 2.02 Sheet A604, Remove Wall Bumper, 1270CV, 626, and TR from Door Hardware Set #7
- 2.03 Sheet A610, Change Hardware Set for Door 6270D to Hardware Set 7. Change Note 3 in Comments to Door Schedule to read: DOORS TO HAVE RED TINTED GLAZING, TYPE SG-1, SECTION 08 80 00.
- 2.04 Sheet LF001, Specialty Equipment Schedule, change EQ110 to CFCI and change description to Single Station Downdraft Bedding Scrapping Station.
- 2.05 Sheet LF406, Change Keynote 813 to read: STAINLESS STEEL ACCESS PANEL, 30" WIDE x 48" TALL, MOUNT AT 6 ½" A.F.F.
- 2.06 Sheet G001, Add sheet PH106: PHASING PLAN LEVEL 6 to drawing list.

ISSUED DRAWINGS:

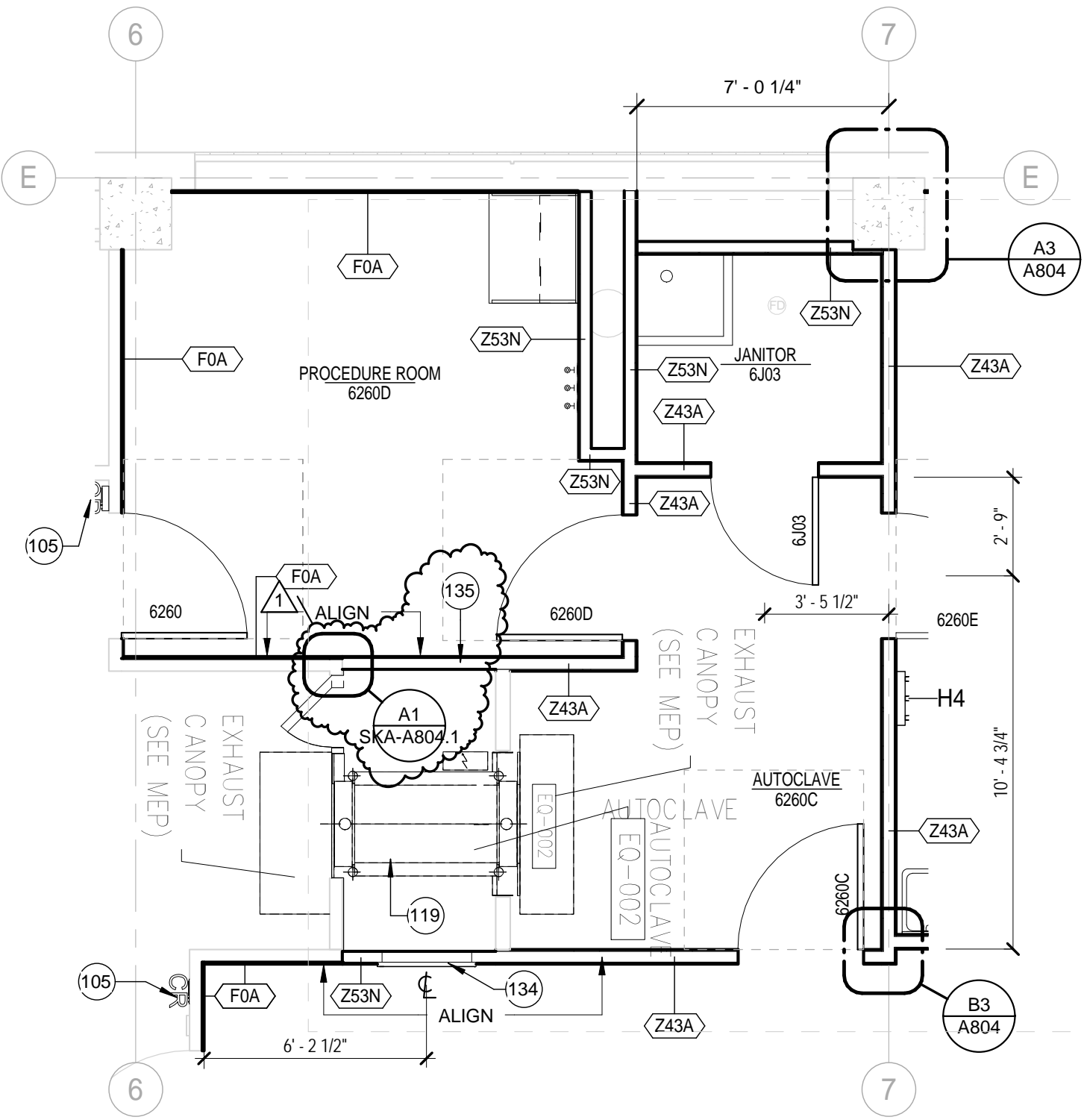
- 2.07 The following 11" by 17" Drawings are issued herewith:
 - SKA-AR106.1 – Partial Reflected Ceiling Plan – Level 6
 - SKA-A406.1 – Partial Enlarged Architectural Floor Plan
 - SKA-A804.1 – Partial Interior Details
 - SKA-LF407.1 – Partial Enlarged Cage Wash Lab Plan
- 2.08 The following 30" by 42" Drawings are issued herewith:

PH106

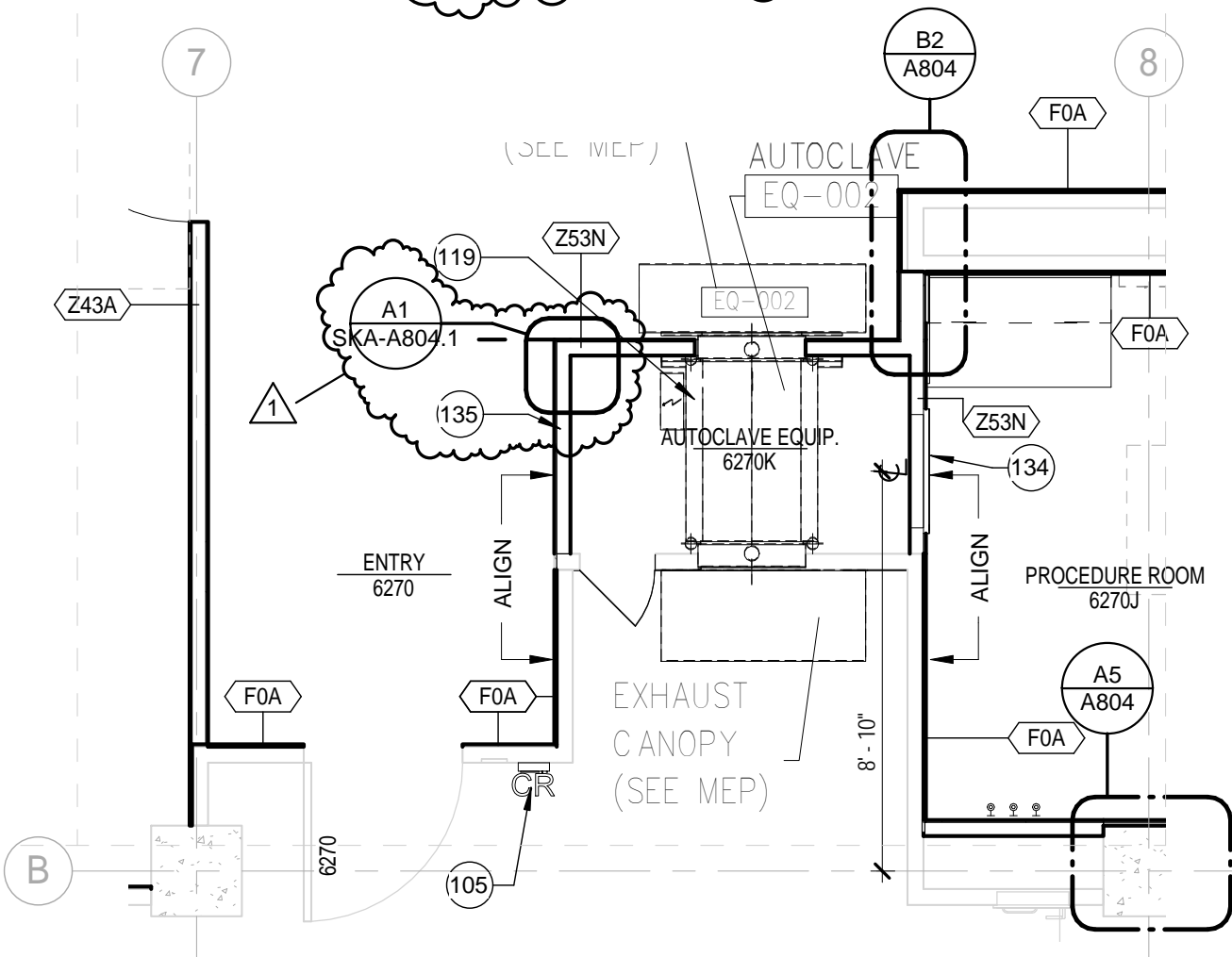
REVISED DRAWINGS:

- 2.09 The following 30" by 42" Drawings are revised and reissued herewith:
 - M206.C, M600
 - E-400

END OF ADDENDUM NO. 2



A1 ENLARGED LEVEL 6 FLOOR PLAN
SCALE: 1/4" = 1'-0"



A2 ENLARGED LEVEL 6 FLOOR PLAN
SCALE: 1/4" = 1'-0"

NOTES TO SHEET	
105	NEW CARD READER, REFER TO A610 FOR HARDWARE TYPE
119	EXISTING AUTOCLAVE TO REMAIN. PROTECT EQUIPMENT FROM DAMAGE DURING CONSTRUCTION
134	STAINLESS STEEL ACCESS PANEL, 30" WIDE x 48" TALL, MOUNT AT 6 1/2" A.F.F.
135	STAINLESS STEEL PARTITION AND ACCESS PANEL, ACCESS PANEL 30" WIDE x 108" TALL, CENTER THE PANEL AND MOUNT AT 6" A.F.F., RE: SHEET LF406 FOR LOCATION AND SHEET LF001 FOR EQUIPMENT LIST



9/10/2015

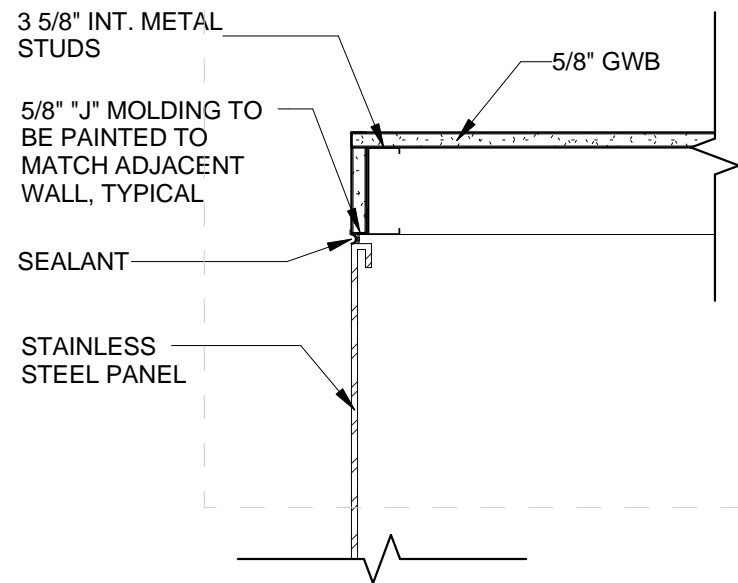
WHR ARCHITECTS
1111 Louisiana 26th Floor
Houston, TX 77002
T 713 665 5665 whrarchitects.com

OWNER:
BBS Level 6 Vivarium Buildout
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PROJECT TITLE:
Behavioral and Biomedical Science Building (BBS)
SHEET TITLE:
PARTIAL ENLARGED ARCHITECTURAL FLOOR PLAN

PROJECT NO.
G15303-00
PHASE:
CD'S/ADD#2
DATE: 09/10/15
SCALE: 1/4" = 1'-0"

RE:
A406
SHEET NUMBER:
SKA-A406.1



A1 PARTIAL CORNER COND. AT STAINLESS STEEL PANEL
 SCALE: 1 1/2" = 1'-0"



9/10/2015

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PROJECT TITLE:
 Behavioral and Biomedical Science Building (BBS)

SHEET TITLE:
 PARTIAL INTERIOR DETAILS

PROJECT NO.
 G15303-00

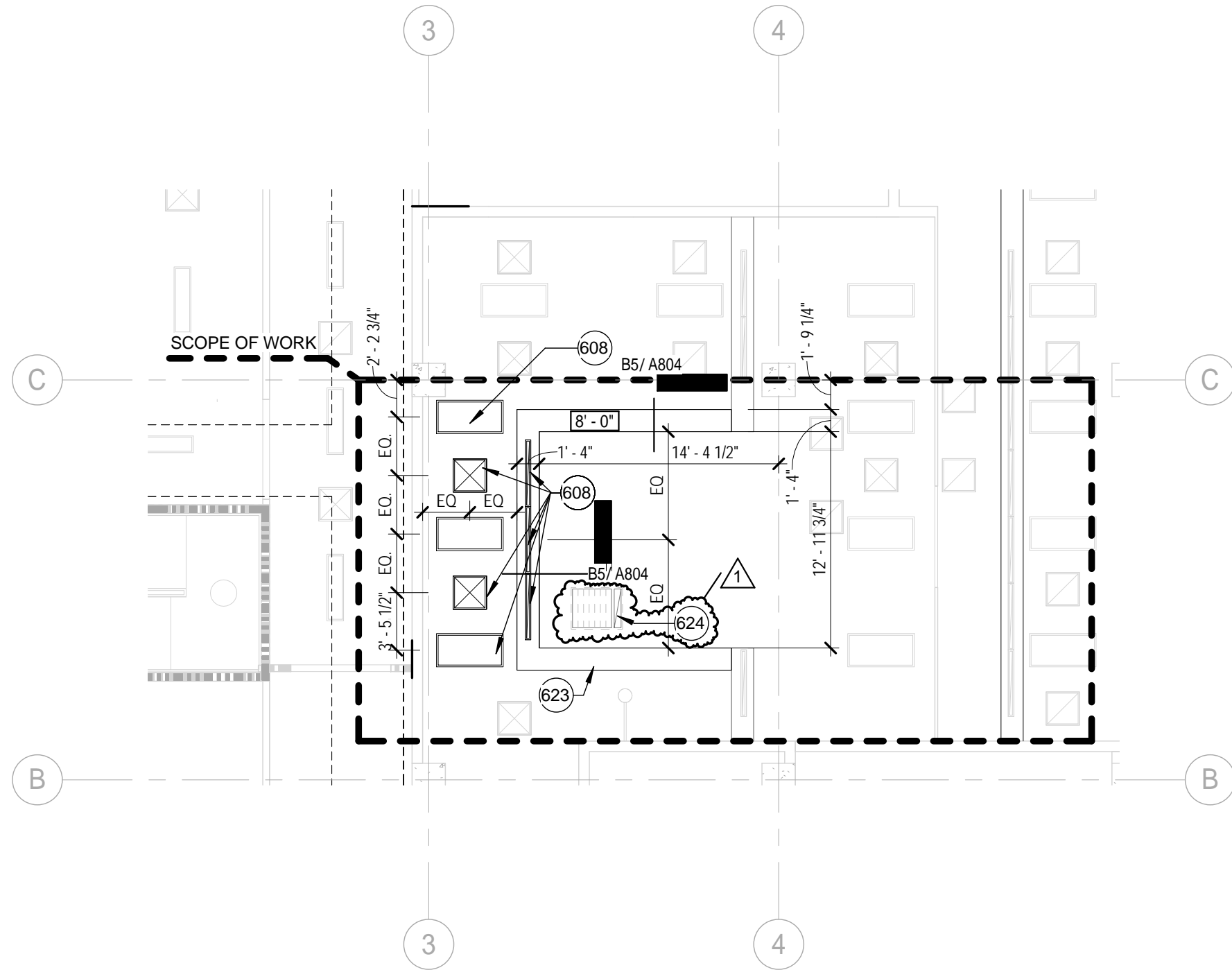
PHASE:
 CD'S/ADD#2

DATE: 09/10/15
 SCALE: 1 1/2" = 1'-0"

RE:
 A804

SHEET NUMBER:

SKA-A804.1



NOTES TO SHEET	
608	CLEAN EXISTING RELOCATED LIGHT FIXTURES AND MEP DEVICES BEFORE RE-INSTALLATION
623	NEW GYPSUM BOARD FURR DOWN CEILING, MATCH EXISTING FURR DOWN CEILING AND HEIGHT ABOVE FINISH FLOOR, PATCH AND REPAIR FOR CONTINUOUS CLEAN LINE
624	NEW SINGLE STATION DOWNDRAFT BEDDING SCRAPPING STATION, COORDINATE EXHAUST LOCATION WITH MECHANICAL, RE: SHEET LF407 FOR LOCATION AND LF001 FOR EQUIPMENT SCHEDULE

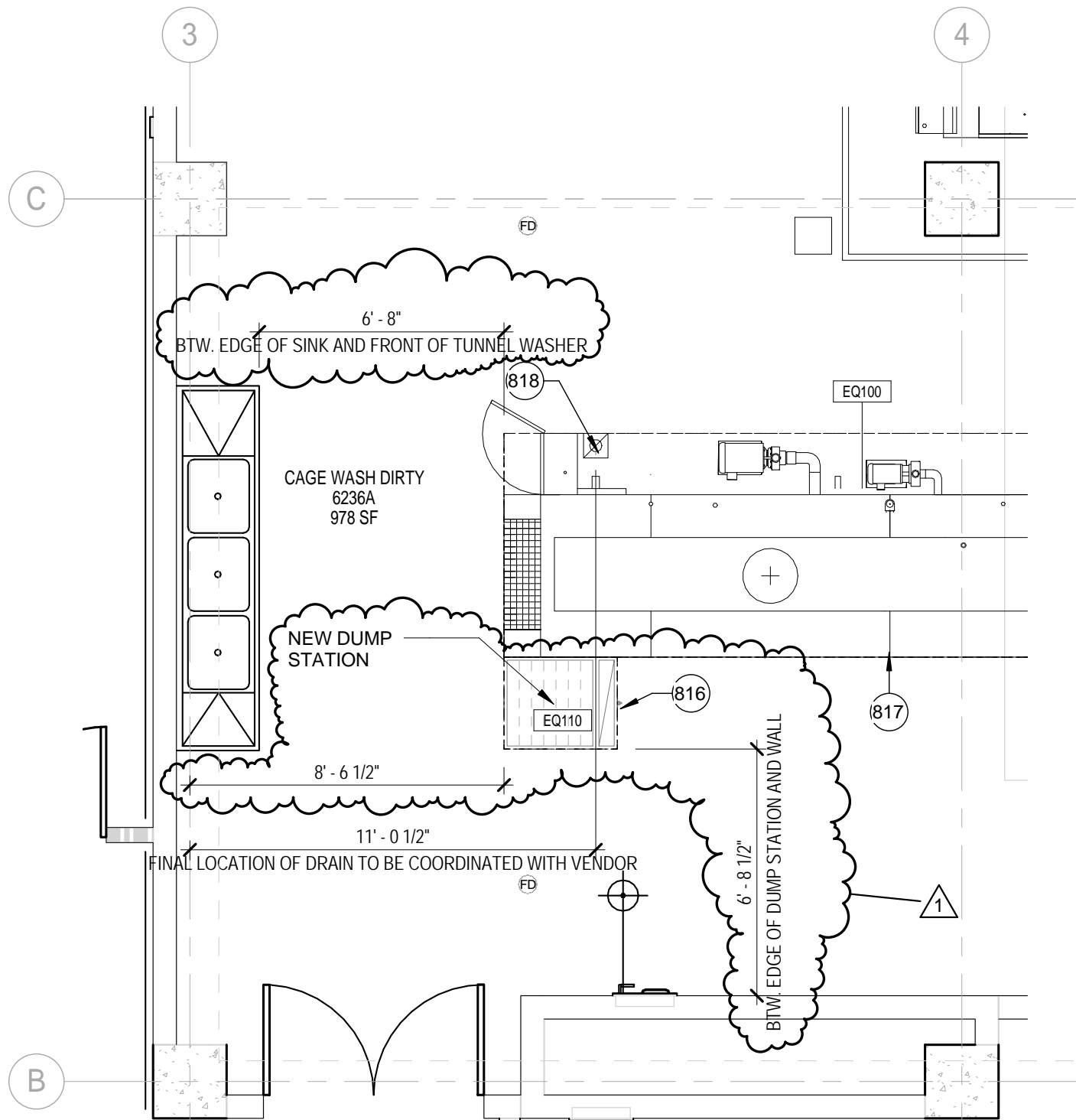


A1 PARTIAL REFLECTED CEILING PLAN - LEVEL 6
 SCALE: 1/8" = 1'-0"



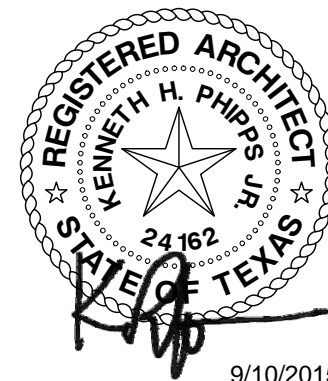
9/10/2015

WHR ARCHITECTS 1111 Louisiana 26th Floor Houston, TX 77002 T 713 665 5665 whrarchitects.com	OWNER: BBS Level 6 Vivarium Buildout	PROJECT TITLE: Behavioral and Biomedical Science Building (BBS)	PROJECT NO. G15303-00	RE: AR106
	Copyright © WHR Architects, Inc.	SHEET TITLE: PARTIAL REFLECTED CEILING PLAN - LEVEL 6	PHASE: CD'S/ADD#2	SHEET NUMBER: SKA-AR106.1
			DATE: 09/10/15 SCALE: 1/8" = 1'-0"	



NOTES TO SHEET	
816	NEW SINGLE STATION DOWNDRAFT BEDDING SCRAPPING STATION, CFCI, RE: SHEET LF001 FOR EQUIPMENT LIST, RE: MECHANICAL
817	NEW TUNNEL WASHER, RE: LF001 FOR EQUIPMENT LIST
818	RECOMMENDED 4" DRAIN LOCATION, COORDINATE WITH VENDOR

A1 PARTIAL ENLARGED CAGE WASH LAB PLAN
SCALE: 1/4" = 1'-0"



9/10/2015

WHR ARCHITECTS 1111 Louisiana 26th Floor Houston, TX 77002 T 713 665 5665 whrarchitects.com	OWNER: BBS Level 6 Vivarium Buildout	PROJECT TITLE: Behavioral and Biomedical Science Building (BBS)	PROJECT NO. G15303-00	RE: LF407
	Copyright © WHR Architects, Inc.	SHEET TITLE: PARTIAL ENLARGED CAGE WASH LAB PLAN	PHASE: CD'S/ADD#2	SHEET NUMBER: SKA-LF407.1
			DATE: 09/10/15 SCALE: 1/4" = 1'-0"	

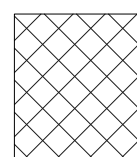
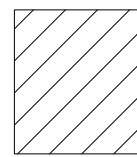
GENERAL NOTES PHASING PLAN

- A. THIS DEPARTMENTAL PHASING PLAN DEFINES THE OWNERS OPERATIONAL AND OCCUPANCY REQUIREMENTS ONLY, AND IS NOT INTENDED AS DIRECTIONS FOR CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES, OR PROCEDURES.
- B. ALL DEPARTMENTS ARE TO REMAIN OPERATIONAL DURING THE CONSTRUCTION OF PHASE 1 THROUGH THE COMPLETION OF PHASE 2.

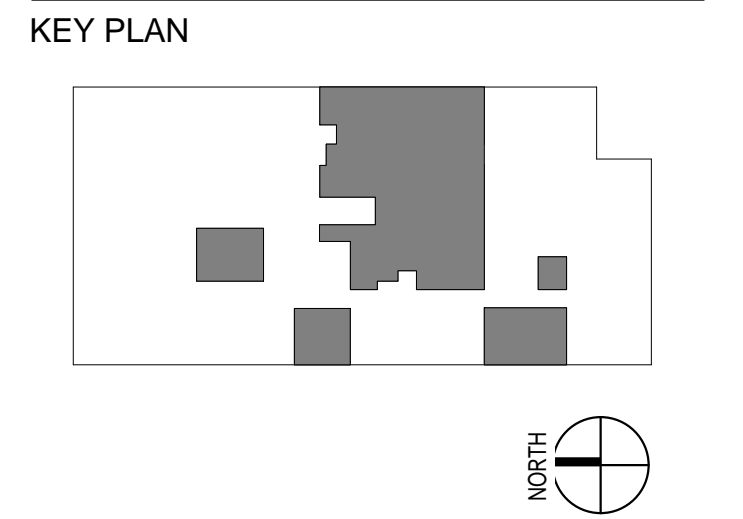
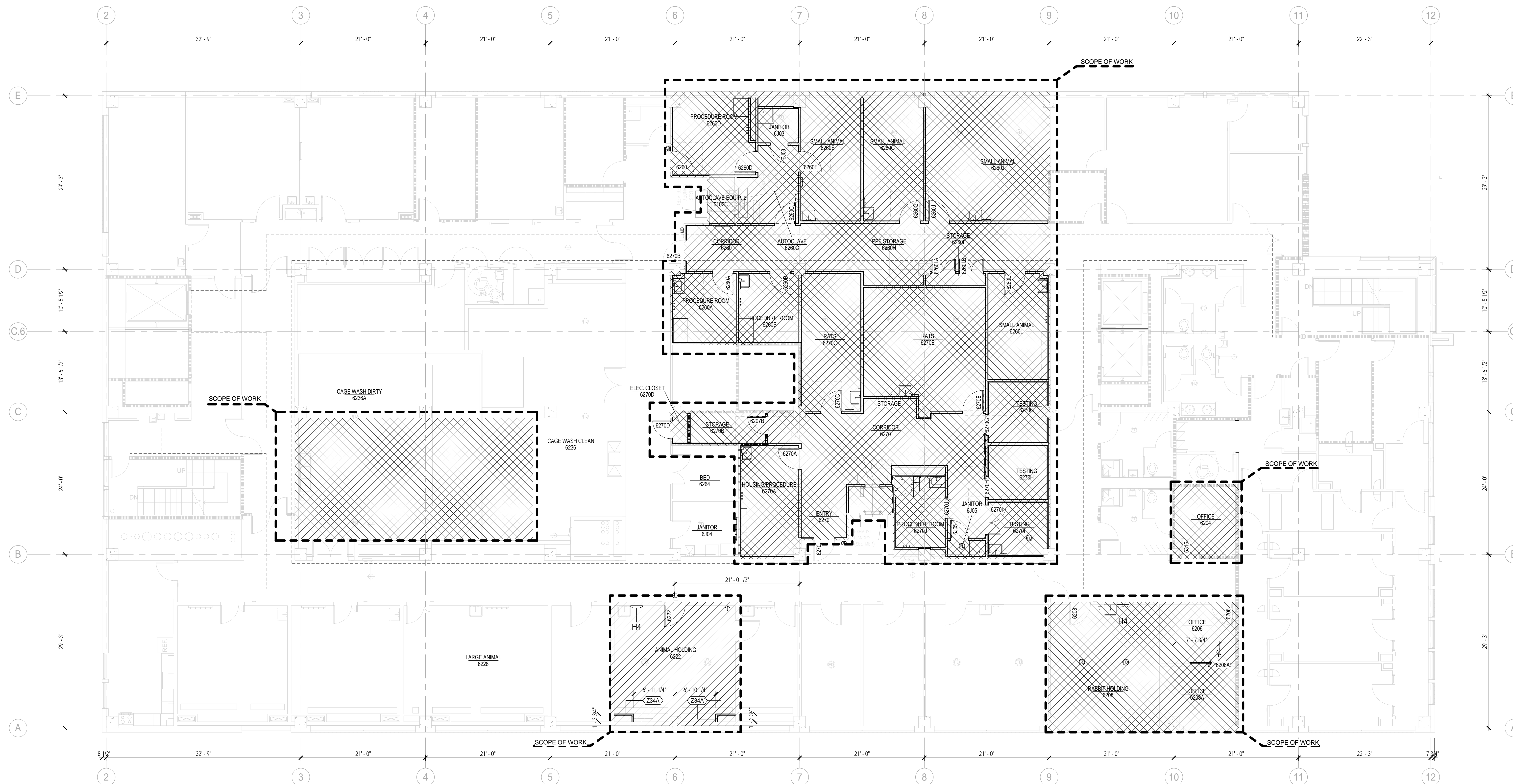
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PHASING LEGEND

-  **PHASE 1**
BUILD-OUT OF SMALL ANIMAL HOLDING ROOMS SUITE:
ROOMS 6204: OFFICE, 6206: OFFICE, 6208A: OFFICE, 6209
RABBIT HOLDING, 6236A: CAGE WASH DIRTY, 6236: CAGE
WASH CLEAN
-  **PHASE 2**
BUILD-OUT OF ROOM 6222: ANIMAL HOLDING

REVISIONS		
NO.	DATE	DESCRIPTION
1	9/10/2015	Addendum #2

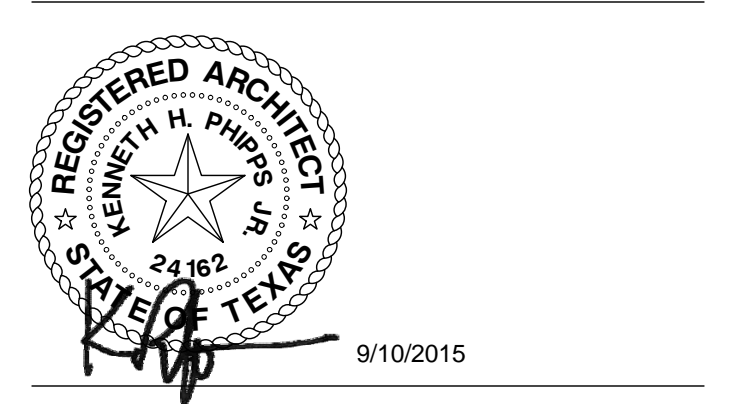


Behavioral and Biomedical Science Building (BBS)

UTHealth
The University of Texas
Health Science Center at Houston

BBS Level 6 Vivarium Buildout

1941 East Road Houston, Texas 77054



PHASING PLAN LEVEL 6

PHASE: 100% CD'S
DATE: 8/12/2015

PROJECT NO:
G15303-00

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PH106

LAB AIRFLOW CONTROL VALVE SCHEDULE

UNIT NO.	SERVICE	VALVE GROUP OFFSET	NORMAL OPERATION MAX	NORMAL OPERATION MIN	UNOCCUPIED MIN	INLET/OUTLET SIZE	HEATING COIL										CONTROL PANEL	MANUFACTURER	MODEL
							DESIGN HEATING CFM	ENT. AIR TEMP F	LVG AIR TEMP F	MBH	GPM @ 120F 20F DT	MAX ROWS/FPI	COIL SIZE	MAX PRESSURE DROP (IN. W.G.)	MAX PRESSURE DROP (FT)	MAX FACE VELOCITY (FPM)			
MAV - 7-6 - 36	PROCEDURE 6260G	(N)	550	200	200	12	200	52	82.5	7.810	1.0	1/8	12X12	0.2	5	560	7-6-13	PHOENIX	MAVA112L
EXV - 7-6 - 36			550	200	200	12	-	-	-	-	-	-	-	-	-	-	PHOENIX	EXVA112L	
MAV - 7-6 - 37	CORRIDOR 6260	+700	700	700	700	12	700	52	78.0	23.870	2.5	1/8	12X12	0.2	5	700	7-6-13	PHOENIX	MAVA112L
MAV - 7-6 - 38	AUTOCLAVE 6260C	+150	450	250	250	12	250	52	78.0	8.525	1.0	1/8	12X12	0.2	5	460	7-6-13	PHOENIX	MAVA112L
EXV - 7-6 - 38			300	100	100	12	-	-	-	-	-	-	-	-	-	-	PHOENIX	EXVA112L	
EXV - 7-6 - 39	JANITOR 6203	-50	50	50	50	8	-	-	-	-	-	-	-	-	-	-	PHOENIX	EXVA108L	
MAV - 7-6 - 40	SMALL ANIMAL 6260E	-100	250	250	250	12	250	52	81.6	9.515	1.5	1/8	9X9	0.2	5	444	7-6-14	PHOENIX	MAVA112L
EXV - 7-6 - 40			350	350	350	12	-	-	-	-	-	-	-	-	-	-	PHOENIX	EXVA112L	
MAV - 7-6 - 41	SMALL ANIMAL 6260G	-100	250	250	250	12	250	52	81.6	9.515	1.5	1/8	9X9	0.2	5	444	7-6-14	PHOENIX	MAVA112L
EXV - 7-6 - 41			350	350	350	12	-	-	-	-	-	-	-	-	-	-	PHOENIX	EXVA112L	
MAV - 7-6 - 42	SMALL ANIMAL 6260J	-50	300	300	300	12	300	52	81.0	11.220	1.5	1/8	9X9	0.2	5	533	7-6-14	PHOENIX	MAVA112L
EXV - 7-6 - 42			350	350	350	12	-	-	-	-	-	-	-	-	-	-	PHOENIX	EXVA112L	
MAV - 7-6 - 43	SMALL ANIMAL 6260K	-50	320	320	320	12	320	52	80.8	11.902	1.5	1/8	9X9	0.2	5	569	7-6-14	PHOENIX	MAVA112L
EXV - 7-6 - 43			370	370	370	12	-	-	-	-	-	-	-	-	-	-	PHOENIX	EXVA112L	
MAV - 7-6 - 44	PROCEDURE 6260A	-100	250	100	100	12	250	52	78.0	8.525	1.0	1/8	9X9	0.2	5	444	7-6-15	PHOENIX	MAVA112L
EXV - 7-6 - 44			350	200	200	12	-	-	-	-	-	-	-	-	-	-	PHOENIX	EXVA112L	
MAV - 7-6 - 45	PROCEDURE 6260B	-100	250	100	100	12	250	52	78.0	8.525	1.0	1/8	9X9	0.2	5	444	7-6-15	PHOENIX	MAVA112L
EXV - 7-6 - 45			350	200	200	12	-	-	-	-	-	-	-	-	-	-	PHOENIX	EXVA112L	
MAV - 7-6 - 46	STORAGE 6270B	+150	150	150	150	12	150	52	78.0	5.115	0.5	1/8	9X9	0.2	5	267	7-6-15	PHOENIX	MAVA112L
EXV - 7-6 - 46			350	350	350	12	350	52	78.0	11.935	1.5	1/8	12X9	0.2	5	467	7-6-16	PHOENIX	MAVA112L
MAV - 7-6 - 47	RATS 6270C	+80	450	450	450	12	-	-	-	-	-	-	-	-	-	-	PHOENIX	EXVA112L	
EXV - 7-6 - 47			300	300	300	12	300	52	78.0	10.230	1.5	1/8	9X9	0.2	5	533	7-6-16	PHOENIX	MAVA112L
MAV - 7-6 - 48	RATS 6270E	+80	240	240	240	12	-	-	-	-	-	-	-	-	-	-	PHOENIX	EXVA112L	
EXV - 7-6 - 48			300	300	300	12	300	52	78.0	10.230	1.5	1/8	9X9	0.2	5	533	7-6-16	PHOENIX	MAVA112L
MAV - 7-6 - 49	RATS 6270E	-160	460	460	460	12	-	-	-	-	-	-	-	-	-	-	PHOENIX	EXVA112L	
EXV - 7-6 - 49			460	460	460	12	-	-	-	-	-	-	-	-	-	-	PHOENIX	EXVA112L	
MAV - 7-6 - 50	SMALL ANIMAL 6260L	-100	150	100	100	12	150	52	78.0	5.115	1.0	1/8	9X9	0.2	5	267	7-6-17	PHOENIX	MAVA112L
EXV - 7-6 - 50			450	200	200	12	-	-	-	-	-	-	-	-	-	-	PHOENIX	EXVA112L	
MAV - 7-6 - 51	TESTING 6270G	-100	250	200	200	12	-	-	-	-	-	-	-	-	-	-	PHOENIX	EXVA112L	
EXV - 7-6 - 51			150	100	100	12	150	52	78.0	5.115	1.0	1/8	9X9	0.2	5	267	7-6-17	PHOENIX	EXVA112L
MAV - 7-6 - 52	TESTING 6270H	-100	150	100	100	12	-	-	-	-	-	-	-	-	-	-	PHOENIX	EXVA112L	
EXV - 7-6 - 52			250	200	200	12	-	-	-	-	-	-	-	-	-	-	PHOENIX	EXVA112L	
MAV - 7-6 - 53	TESTING 6270I	-100	150	100	100	12	-	-	-	-	-	-	-	-	-	-	PHOENIX	EXVA112L	
EXV - 7-6 - 53			250	200	200	12	-	-	-	-	-	-	-	-	-	-	PHOENIX	EXVA112L	
MAV - 7-6 - 54	JANITOR 6205	-50	50	50	50	8	-	-	-	-	-	-	-	-	-	-	PHOENIX	EXVA108L	
EXV - 7-6 - 54			50	50	50	8	-	-	-	-	-	-	-	-	-	-	PHOENIX	EXVA108L	
MAV - 7-6 - 55	PROCEDURE ROOM 6270J	-100	250	100	100	12	250	52	78.0	8.525	1.0	1/8	9X9	0.2	5	444	7-6-18	PHOENIX	MAVA112L
EXV - 7-6 - 55			350	200	200	12	-	-	-	-	-	-	-	-	-	-	PHOENIX	EXVA112L	
MAV - 7-6 - 56	CORRIDOR 6270	+700	1000	800	800	12	1000	52	78.0	34.100	3.5	1/8	18X18	0.2	5	640	7-6-18	PHOENIX	MAVA112L
EXV - 7-6 - 56			300	100	100	12	-	-	-	-	-	-	-	-	-	-	PHOENIX	EXVA112L	
MAV - 7-6 - 57	HOUSING 6270A	-100	360	360	360	12	360	52	78.0	12.275	1.5	1/8	12X9	0.2	5	480	7-6-18	PHOENIX	MAVA112L
EXV - 7-6 - 57			460	460	460	12	-	-	-	-	-	-	-	-	-	-	PHOENIX	EXVA112L	
MAV - 7-6 - 58	CAGEWASH 6236	-2200	2200	2200	2200	36X12	-	-	-	-	-	-	-	-	-	-	PHOENIX	EXVB312L	
EXV - 7-6 - 58			2200	2200	2200	36X12	-	-	-	-	-	-	-	-	-	-	PHOENIX	EXVB312L	

EXISTING ZONES

UNIT NO.	SERVICE	VALVE GROUP OFFSET	NORMAL OPERATION MAX	NORMAL OPERATION MIN	UNOCCUPIED MIN	INLET/OUTLET SIZE	DESIGN HEATING CFM	ENT. AIR TEMP F	LVG AIR TEMP F	MBH	GPM @ 120F 20F DT	MAX ROWS/FPI	COIL SIZE	MAX PRESSURE DROP (IN. W.G.)	MAX PRESSURE DROP (FT)	MAX FACE VELOCITY (FPM)	CONTROL PANEL	MANUFACTURER	MODEL
MAV - 7-6 - 7	ANIMAL HOLDING 6222	-50	480	480	480	12	480	52	78.0	13.478	1.5	1/8	9X9	0.2	5	853	7-6-4	EXISTING	MAVA112L
EXV - 7-6 - 7			530	530	530	12	-	-	-	-	-	-	-	-	-	-	EXISTING	EXVA112L	
MAV - 7-6 - 8	ANIMAL HOLDING 6222	-50	480	480	480	12	480	52	78.0	13.478	1.5	1/8	9X9	0.2	5	853	7-6-4	EXISTING	MAVA112L
EXV - 7-6 - 8			530	530	530	12	-	-	-	-	-	-	-	-	-	-	EXISTING	EXVA112L	
MAV - 7-6 - 29	CAGEWASH CLEAN 6236	+400	2000	600	600	24X12	600	52	78.0	16.848	2.0	1/8	24X12	0.2	5	1000	7-6-18	EXISTING	MAVA212L
EXV - 7-6 - 29			1800	200	200	24X12	-	-	-	-	-	-	-	-	-	-	EXISTING	EXVA212L	
MAV - 7-6 - 30	CAGEWASH CLEAN 6236	+500	2000	1000	1000	24X12	1000	52	78.0	28.080	3.0	1/8	24X12	0.2	5	1000	7-6-18	EXISTING	MAVA212L
EXV - 7-6 - 30			750	250	250	12	-	-	-	-	-	-	-	-	-	-	EXISTING	EXVA112L	
MAV - 7-6 - 32	CAGEWASH DIRTY 6236A	+100	2000	1000	1000	24X12	1000	52	78.0	28.080	3.0	1/8	24X12	0.2	5	1000	7-6-18	EXISTING	MAVA212L
EXV - 7-6 - 32			400	400	400	12	-	-	-	-	-	-	-	-	-	-	EXISTING	EXVA112L	
MAV - 7-6 - 32B	CAGEWASH DIRTY 6236A	+100	750	250	250	12	-	-	-	-	-	-	-	-	-	-	EXISTING	EXVA112L	
EXV - 7-6 - 32C			750	250	250	12	-	-	-	-	-	-	-	-	-	-	PHOENIX	EXVA112L	
MAV - 7-6 - 33	CAGEWASH DIRTY 6236A	+500	1800	700	700	24X12	700	52	78.0	19.656	2.5	1/8	24X12	0.2	5	800	7-6-18	EXISTING	MAVA212L
EXV - 7-6 - 33			1100	250	250	24X12	-	-	-	-	-	-	-	-	-	-	EXISTING	EXVA212L	
MAV - 7-6 - 36A	OFFICES 6208 & 6204	(N)	150	100	100	12	100	52	84.8	3.542	0.5	1/8	9X9	0.2	5	267	7-6-1	EXISTING	MAVA112L
EXV - 7-6 - 36B			210	100	100	12	-	-	-	-	-	-	-	-	-	-	EXISTING	MAVA112L	
MAV - 7-6 - 36C			360	200	200	12	-	-	-	-	-	-	-	-	-	-	PHOENIX	EXVA112L	
EXV - 7-6 - 36D			360	200	200	12	-	-	-	-	-	-	-	-	-	-	PHOENIX	EXVA112L	

NOTES:

AIR DISTRIBUTION DEVICE SCHEDULE

UNIT NO.	SERVICE	TYPE	FINISH	NECK		FACE IN. SO.	REMARKS
				DIAMETER IN.	SQUARE IN.		
A	OFFICE/HALL SUPPLY	SQUARE PLAQUE	WHITE	SEE PLAN	--	24X24	TITUS MODEL OMNI (SURFACE MOUNT)
AL	OFFICE/HALL SUPPLY	SQUARE PLAQUE	WHITE	SEE PLAN	--	24X24	TITUS MODEL OMNI (LAY-IN)
B	OFFICE/HALL EXHAUST	SQUARE PLAQUE	WHITE	SEE PLAN	--	24X24	TITUS MODEL OMNI (SURFACE MOUNT)
BL	OFFICE/HALL EXHAUST	SQUARE PLAQUE	WHITE	SEE PLAN	--	24X24	TITUS MODEL OMNI (LAY-IN)
C	LAB/ANIMAL EXHAUST	EGG CRATE	WHITE	SEE PLAN	--	24X24	TITUS MODEL 50R-SS (SURFACE MOUNT)
CL	LAB/ANIMAL EXHAUST	EGG CRATE	WHITE	SEE PLAN	--	24X24	TITUS MODEL 50R-SS (LAY-IN)
D	LAB/ANIMAL SUPPLY	180° RADIAL	WHITE	10" φ	--	24X24	TITUS MODEL RADITEC-SS (SURFACE MOUNT)
DL	LAB/ANIMAL SUPPLY	180° RADIAL					

REVISIONS		
NO.	DATE	DESCRIPTION
1	9/10/2015	Addendum #2

Panel PHA (EXISTING)		Project - BBS Level 6 Vivarium Buildout									
Location - PE01/PENTHOUSE		E&C No. 3255		Phase A		Phase B		Phase C		Total	
Panel Information	Panel Loads	Phase A	Phase B	Phase C	Total						
Voltage	277480V, 3P, 4W	Panel Lighting VA	0	0	0						
Panel Type	Panelboard	Panel Receptacle VA	0	0	0						
Bus Amps	225A, 100% Neutral	Panel Equipment VA	0	0	0						
Bus Type	Copper/95.000 AIC	FTL VA	0	0	0						
Panel Mains	225A MLO	Total Connected VA	12972	9854	11318						
Breaker Mtg	Breaker	Total Connected Amps	59	41	41						
Enclosure	NEMA 1 Surface	NEC VA	16215	14140	42980						
Accessories	Ground Bus	NEC Amps	44	51	51						
Ckt.	Bkr.	Circuit Use	Load	Type	Ph.	Ckt.	Bkr.	Circuit Use	Load	Type	Ph.
1	201	EXISTING LIGHTING	912	2	A	2	201	EXISTING LIGHTING	2050	2	A
3	201	EXISTING LIGHTING	400	2	B	4	201	VIVARIUM LIGHTING	3144	2	B
5	201	EXISTING LIGHTING	2176	2	C	6	201	VIVARIUM LIGHTING	2772	2	C
7	201	EXISTING LIGHTING	1820	2	A	8	201	VIVARIUM LIGHTING	2820	2	A
9	201	EXISTING LIGHTING	2310	2	B	10	201	SPARE			
11	201	EXISTING LIGHTING	2870	2	C	12	201	SPARE			
13	201	EXISTING LIGHTING	3360	2	A	14	201	SPARE			
15	201	EXISTING LIGHTING	2000	2	B	16	201	SPARE			
17	201	EXISTING LIGHTING	2000	2	C	18	201	SPARE			
19	201	EXISTING LIGHTING	2000	2	A	20	201	SPARE			
21	201	EXISTING LIGHTING	2000	2	B	22	201	SPARE			
23	201	EXISTING LIGHTING	2000	2	C	24	201	SPARE			
Load Types: 0 = Recept (per NEC), 1 = Equip. (100%), 2 = Lighting (100%), 3 = AC (100%), 4 = Heating (100%), 5 = Lght. Motor (125%), 6 = Kitchen Equip. (per NEC)											
Notes:											

Panel PLC (EXISTING)		Project - BBS Level 6 Vivarium Buildout									
Location - PE01/PENTHOUSE		E&C No. 3255		Phase A		Phase B		Phase C		Total	
Panel Information	Panel Loads	Phase A	Phase B	Phase C	Total						
Voltage	120/208V, 3P, 4W	Panel Lighting VA	0	0	0						
Panel Type	Panelboard	Panel Receptacle VA	5880	5880	5980						
Bus Amps	225A, 100% Neutral	Panel Equipment VA	6384	6650	4532						
Bus Type	Copper/10.000 AIC	FTL VA	0	0	0						
Panel Mains	1500 MCB	Total Connected VA	11664	12180	8592						
Breaker Mtg	Breaker	Total Connected Amps	97	102	72						
Enclosure	NEMA 1 Surface	NEC VA	10541	11057	6279						
Accessories	Ground Bus	NEC Amps	68	92	69						
Ckt.	Bkr.	Circuit Use	Load	Type	Ph.	Ckt.	Bkr.	Circuit Use	Load	Type	Ph.
1	201	EXISTING LOAD	1440	1	A	2	402	EXISTING LOAD	4500	1	A
3	201	RECEPTACLES	720	0	B	4	--	--	4500	1	B
5	201	EXISTING LOAD	1440	1	C	6	1501	EXISTING LOAD	1092	1	C
7	202	EXISTING LOAD	540	0	A	8	201	EXISTING LOAD	1440	0	A
9	--	EXISTING LOAD	540	0	B	10	201	RECEPTACLES	720	0	B
11	201	EXISTING LOAD	180	0	C	12	201	RECEPTACLES	900	0	C
13	201	PROCEDURE LIGHTS	144	1	A	14	201	RECEPTACLES	720	0	A
15	402	IRRADIATOR	2100	1	B	16	201	RECEPTACLES	720	0	B
17	--	--	2100	1	C	18	201	SPARE			
19	201	RECEPTACLES	720	0	A	20	201	SPARE			
21	201	RECEPTACLES	720	0	B	22	201	SPARE			
23	201	RECEPTACLES	720	0	C	24	201	SPARE			
25	201	RECEPTACLES	720	0	A	26	201	SPARE			
27	201	RECEPTACLES	720	0	B	28	201	SPARE			
29	201	RECEPTACLES	720	0	C	30	201	SPARE			
31	201	RECEPTACLES	720	0	A	32	201	SPARE			
33	201	RECEPTACLES	720	0	B	34	201	SPARE			
35	201	RECEPTACLES	720	0	C	36	201	SPARE			
37	201	RECEPTACLES	720	0	A	38	201	SPARE			
39	201	RECEPTACLES	720	0	B	40	201	SPARE			
41	201	RECEPTACLES	720	0	C	42	201	SPARE			
Load Types: 0 = Recept (per NEC), 1 = Equip. (100%), 2 = Lighting (125%), 3 = AC (100%), 4 = Heating (100%), 5 = Lght. Motor (125%), 6 = Kitchen Equip. (per NEC)											
Notes: (1) PROVIDE NEW BREAKER IN EXISTING SPARE LOCATIONS. TURN OVER REMOVED BREAKERS TO UTSHCH FOR STORAGE.											

Panel PELA (EXISTING)		Project - BBS Level 6 Vivarium Buildout									
Location - PE01/PENTHOUSE		E&C No. 3255		Phase A		Phase B		Phase C		Total	
Panel Information	Panel Loads	Phase A	Phase B	Phase C	Total						
Voltage	120/208V, 3P, 4W	Panel Lighting VA	800	1600	1600						
Panel Type	Panelboard	Panel Receptacle VA	1260	1440	2160						
Bus Amps	225A, 100% Neutral	Panel Equipment VA	11480	6284	6320						
Bus Type	Copper/22.000 AIC	FTL VA	0	0	0						
Panel Mains	225A MLO	Total Connected VA	13480	9324	10080						
Breaker Mtg	Breaker	Total Connected Amps	112	76	84						
Enclosure	NEMA 1 Surface	NEC VA	13660	9724	10480						
Accessories	Ground Bus	NEC Amps	114	81	87						
Ckt.	Bkr.	Circuit Use	Load	Type	Ph.	Ckt.	Bkr.	Circuit Use	Load	Type	Ph.
1	201	EXISTING LOAD	660	1	A	2	201	EXISTING LOAD	180	0	A
3	201	EXISTING LOAD	464	1	B	4	201	EXISTING LOAD	300	1	B
5	201	EXISTING LOAD	200	1	C	6	201	EXISTING LOAD	1600	1	C
7	201	EXISTING LOAD	1200	1	A	8	201	EXISTING LOAD	1800	1	A
9	201	EXISTING LOAD	1000	1	B	10	201	EXISTING LOAD	800	2	B
11	201	EXISTING LOAD	200	1	C	12	201	EXISTING LOAD	800	2	C
13	201	EXISTING LOAD	600	1	A	14	201	EXISTING LOAD	800	2	A
15	201	EXISTING LOAD	600	1	B	16	201	EXISTING LOAD	800	2	B
17	201	EXISTING LOAD	640	0	C	18	201	EXISTING LOAD	800	2	C
19	201	EXISTING LOAD	720	0	A	20	201	EXISTING LOAD	600	1	A
21	201	EXISTING LOAD	720	0	B	22	201	EXISTING LOAD	360	0	B
23	201	EXISTING LOAD	720	0	C	24	201	EXISTING LOAD	360	0	C
25	602	EXISTING LOAD	3120	1	A	26	201	EXISTING LOAD	360	0	A
27	--	--	3120	1	B	28	201	EXISTING LOAD	360	0	B
29	602	EXISTING LOAD	3120	1	C	30	201	RECEPTACLES	360	0	C
31	--	--	3120	1	A	32	201	SPARE			
33	201	EXISTING LOAD	300	1	B	34	201	SPARE			
35	201	EXISTING LOAD	180	0	C	36	201	SPARE			
37	201	EXISTING LOAD	300	1	A	38	201	SPARE			
39	201	EXISTING LOAD	300	1	B	40	201	SPARE			
41	201	LAB GAS ALARM PANELS	1000	1	C	42	201	SPARE			
Load Types: 0 = Recept (per NEC), 1 = Equip. (100%), 2 = Lighting (125%), 3 = AC (100%), 4 = Heating (100%), 5 = Lght. Motor (125%), 6 = Kitchen Equip. (per NEC)											
Notes:											

Panel PELB (EXISTING)		Project - BBS Level 6 Vivarium Buildout									
Location - PE01/PENTHOUSE		E&C No. 3255		Phase A		Phase B		Phase C		Total	
Panel Information	Panel Loads	Phase A	Phase B	Phase C	Total						
Voltage	120/208V, 3P, 4W	Panel Lighting VA	0	0	0						
Panel Type	Panelboard	Panel Receptacle VA	2020	3060	3420						
Bus Amps	225A, 100% Neutral	Panel Equipment VA	600	0	200						
Bus Type	Copper/22.000 AIC	FTL VA	0	0	0						
Panel Mains	225A MLO	Total Connected VA	3120	3660	3600						
Breaker Mtg	Breaker	Total Connected Amps	26	28	30						
Enclosure	NEMA 1 Surface	NEC VA	3120	3060	3672						
Accessories	Ground Bus	NEC Amps	26	28	30						
Ckt.	Bkr.	Circuit Use	Load	Type	Ph.	Ckt.	Bkr.	Circuit Use	Load	Type	Ph.
1	201	EXISTING LOAD	200	1	A	2	201	EXISTING LOAD	180	0	A
3	201	RECEPTACLES	720	0	B	4	201	EXISTING LOAD	300	0	B
5	201	EXISTING LOAD	200	1	C	6	201	EXISTING LOAD	180	0	C
7	201	EXISTING LOAD	200	1	A	8	201	EXISTING LOAD	180	0	A
9	201	EXISTING LOAD	180	0	B	10	201	EXISTING LOAD	180	0	B
11	201	EXISTING LOAD	1260	0	C	12	201	EXISTING LOAD	180	0	C
13	201	EXISTING LOAD	180	0	A	14	201	EXISTING LOAD	180	0	A
15	201	EXISTING LOAD	180	0	B	16	201	EXISTING LOAD	180	0	B
17	201	EXISTING LOAD	180	0	C	18	201	EXISTING LOAD	180	0	C
19	201	EXISTING LOAD	180	0	A	20	201	EXISTING LOAD	180	0	A
21	201	EXISTING LOAD	180	0	B	22	201	EXISTING LOAD	180	0	B
23	201	EXISTING LOAD	180	0	C	24	201	EXISTING LOAD	180	0	C
25	201	EXISTING LOAD	180	0	A	26	201	EXISTING LOAD	180	0	A
27	201	EXISTING LOAD	180	0	B	28	201	EXISTING LOAD	180	0	B
29	201	EXISTING LOAD	180	0	C	30	201	EXISTING LOAD	180	0	C
31	201	EXISTING LOAD	180	0	A	32	201	EXISTING LOAD	200	1	A
33	201	EXISTING LOAD	180	0	B	34	201	FUTURE BSC	180	0	B
35	201	EXISTING LOAD	180	0	C	36	201	FUTURE BSC	180	0	C
37	201	RECEPTACLES	720	0	A	38	201	FUTURE BSC	180	0	A
39	201	FUTURE BSC	180	0	B	40	201	FUTURE BSC	180	0	B
41	201	FUTURE BSC	180	0	C	42	201	FUTURE BSC	180	0	C
Load Types: 0 = Recept (per NEC), 1 = Equip. (100%), 2 = Lighting (125%), 3 = AC (100%), 4 = Heating (100%), 5 = Lght. Motor (125%), 6 = Kitchen Equip. (per NEC)											
Notes:											

Panel PELC (EXISTING)		Project - BBS Level 6 Vivarium Buildout									
Location - PE01/PENTHOUSE		E&C No. 3255		Phase A		Phase B		Phase C		Total	
Panel Information	Panel Loads	Phase A	Phase B	Phase C	Total						
Voltage	120/208V, 3P, 4W	Panel Lighting VA	0	0	0						
Panel Type	Panelboard	Panel Receptacle VA	1220	1220	1640</						