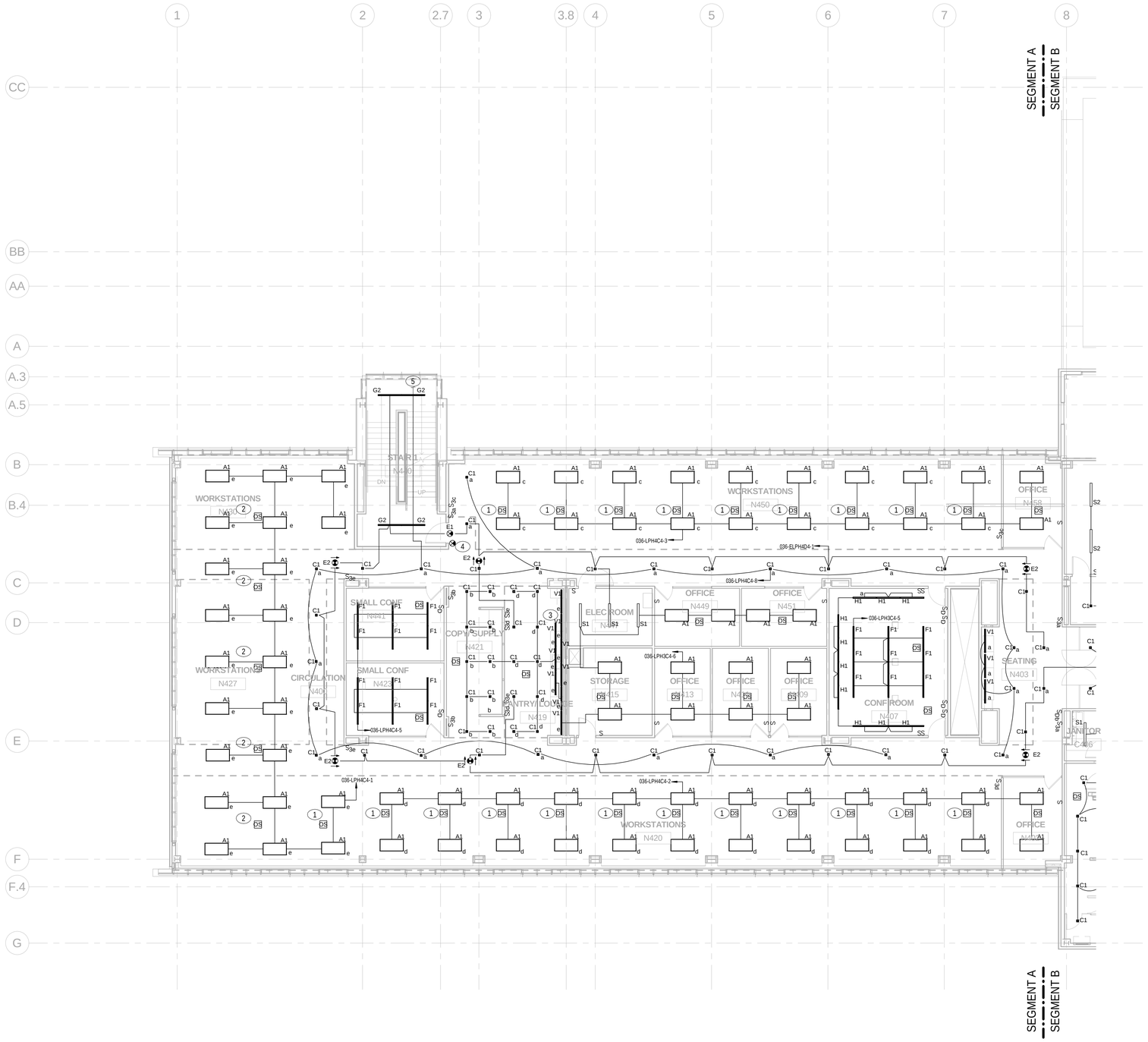


GENERAL NOTES:

1. OCCUPANCY SENSORS SHALL CONTROL ALL LIGHT FIXTURES WITHIN THE ROOM INCLUDING UNDERCOUNTER LIGHTS, UNLESS NOTED OTHERWISE.
2. ROOM WALL SWITCHES SHALL CONTROL ALL LIGHT FIXTURES WITHIN THE ROOM, INCLUDING UNDER CABINET LIGHTS.
3. WHERE MULTIPLE OCCUPANCY SENSORS ARE LOCATED WITHIN A SINGLE ROOM, LIGHT FIXTURES SHALL REMAIN "ON" UPON ACTIVATION OF EITHER SENSOR.
4. LIGHTING FIXTURE CIRCUITS SHALL "NOT BE DAISY CHAINED".

KEY NOTES:

1. OCCUPANCY SENSOR SHALL CONTROL THE TWO ADJACENT FIXTURES. REFER TO OPEN OFFICE LIGHTING CONTROL DETAIL.
2. OCCUPANCY SENSOR SHALL CONTROL THE FOUR ADJACENT FIXTURES.
3. MOUNT ONE SET OF TYPE V1 FIXTURES ABOVE CABINETS AND ONE SET UNDER CABINETS. REFER TO ARCHITECTURAL ELEVATIONS.
4. FIRE ALARM EGRESS SIGNAGE SHALL BE ENERGIZED BY THE NEAREST EGRESS LIGHTING CIRCUIT. COORDINATE WITH FIRE ALARM DRAWINGS.
5. EXTEND UPTO NEXT LEVEL.

100% SUBMITTAL

NORTH

1/8"=1'-0" 8' 4' 0 8' 16'

AECOM
AECOM TECHNICAL SERVICES, INC.
3101 WILSON BOULEVARD
SUITE 900
ARLINGTON, VA 22201
T: 703-682-4900 F: 703.682.4901
www.aecom.com

SEAL AREA

STATE OF MARYLAND
ENGINEER REG. 27 2012 No. 40061 PROFESSIONAL ENGINEER

KEY PLAN

SEGMENT - A

REV	DATE	DESCRIPTION	S&R BR.	CUSTOMER	PM	SECT. HEAD
A	11/29/12	Addendum No. 6				

	INITIALS	DATE
DRAWN BY	LB/BF	
CHECKED BY	JR/MM	
A-E MANAGER	EW	
ENVIRONMENTAL BRANCH	JH	
SAFETY BRANCH	CS	
CM	MMD	
PM	RWP	
CUSTOMER	JWB	
ENG. BRANCH	DGL	

LEVEL-4 ELECTRICAL LIGHTING PLAN SEGMENT A

A

E-104a

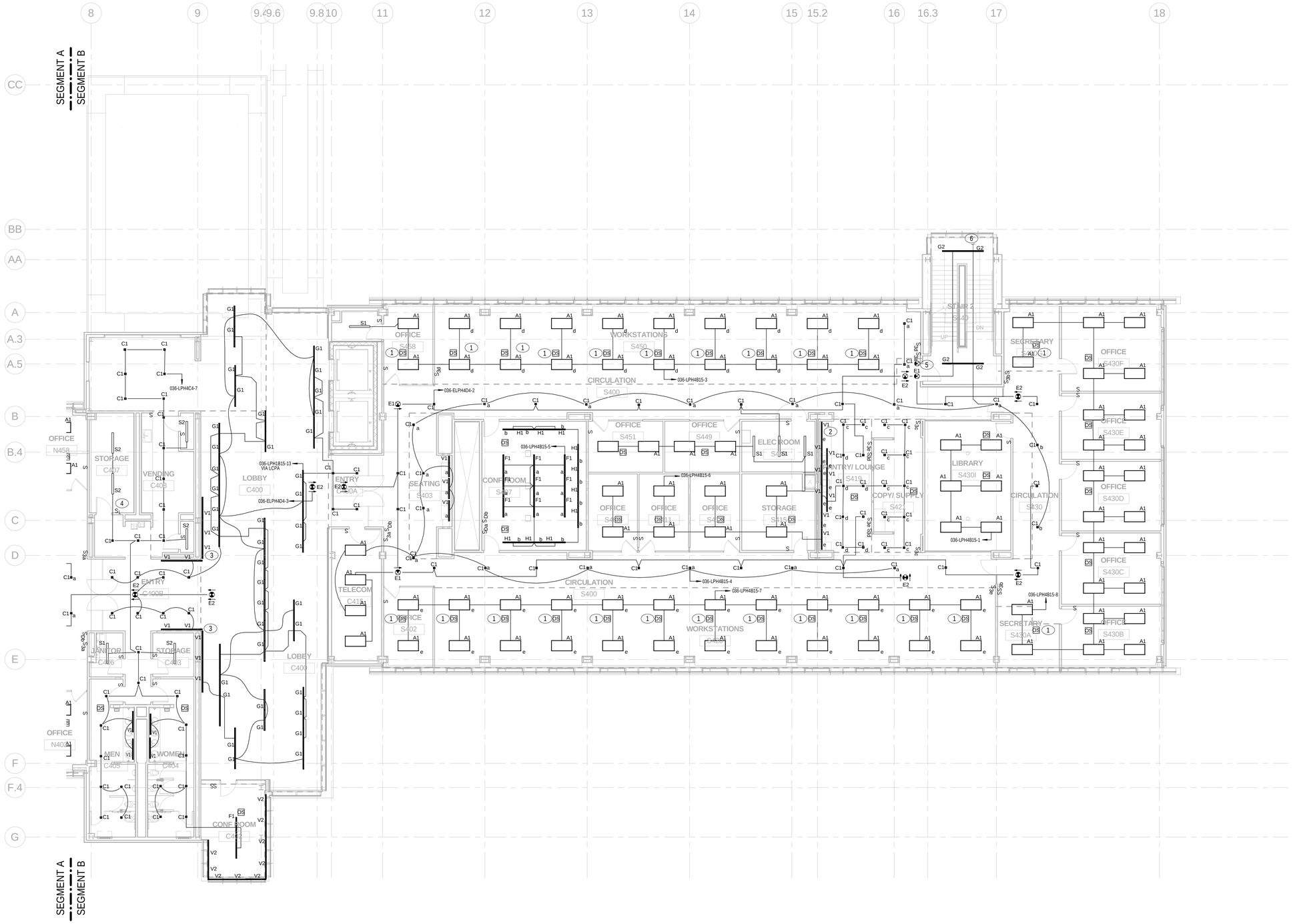
FLIGHT PROJECTS BUILDING

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION

GODDARD SPACE FLIGHT CENTER GREENBELT, MARYLAND
FACILITIES MANAGEMENT DIVISION

DATE ISSUED	CoF CODE OR WR#	AECOM PROJECT NO.	SCALE
10/12/2012	12GXAZ	60187636	1/8" = 1'-0"

FILE DATE: 11/29/2012 3:02:38 PM



GENERAL NOTES:

1. OCCUPANCY SENSORS SHALL CONTROL ALL LIGHT FIXTURES WITHIN THE ROOM INCLUDING UNDERCOUNTER LIGHTS, UNLESS NOTED OTHERWISE.
2. ROOM WALL SWITCHES SHALL CONTROL ALL LIGHT FIXTURES WITHIN THE ROOM, INCLUDING UNDER CABINET LIGHTS.
3. WHERE MULTIPLE OCCUPANCY SENSORS ARE LOCATED WITHIN A SINGLE ROOM, LIGHT FIXTURES SHALL REMAIN "ON" UPON ACTIVATION OF EITHER SENSOR.
4. LIGHTING FIXTURE CIRCUITS SHALL "NOT BE DAISY CHAINED".

KEY NOTES:

1. OCCUPANCY SENSOR SHALL CONTROL THE TWO ADJACENT FIXTURES. REFER TO OPEN OFFICE LIGHTING CONTROL DETAIL.
2. MOUNT ONE SET OF TYPE V1 FIXTURES ABOVE CABINETS AND ONE SET UNDER CABINETS. REFER TO ARCHITECTURAL ELEVATIONS.
3. PROVIDE 3 SETS OF TYPE V1 FIXTURES AT THIS LOCATION. MOUNT ONE SET PER SHELF LEVEL. REFER TO ARCHITECTURAL ELEVATIONS.
4. REFER TO SHEET E-701 FOR LOBBY CONTROLS.
5. FIRE ALARM EGRESS SIGNAGE SHALL BE ENERGIZED BY THE NEAREST EGRESS LIGHTING CIRCUIT. COORDINATE WITH FIRE ALARM DRAWINGS.
6. EXTEND UPTO THE NEXT LEVEL.

100% SUBMITTAL

NORTH

1/8"=1'-0" 8' 4' 0 8' 16'

AECOM
AECOM TECHNICAL SERVICES, INC.
3101 WILSON BOULEVARD
SUITE 900
ARLINGTON, VA 22201
T: 703-682-4900 F: 703.682.4901
www.aecom.com

SEAL AREA

STATE OF MARYLAND
REGISTERED
PROFESSIONAL ENGINEER
No. 40987

KEY PLAN

SEGMENT - B

REV	DATE	DESCRIPTION	S&R BR.	CUSTOMER	PM	SECT. HEAD
A	11/29/12	Addendum No. 6				

	INITIALS	DATE
DRAWN BY	LB/BF	
CHECKED BY	JR/MM	
A-E MANAGER	EW	
ENVIRONMENTAL BRANCH	JH	
SAFETY BRANCH	CS	
CM	MMD	
PM	RWP	
CUSTOMER	JWB	
ENG. BRANCH	DGL	

LEVEL-4 ELECTRICAL LIGHTING PLAN SEGMENT B

A

E-104b

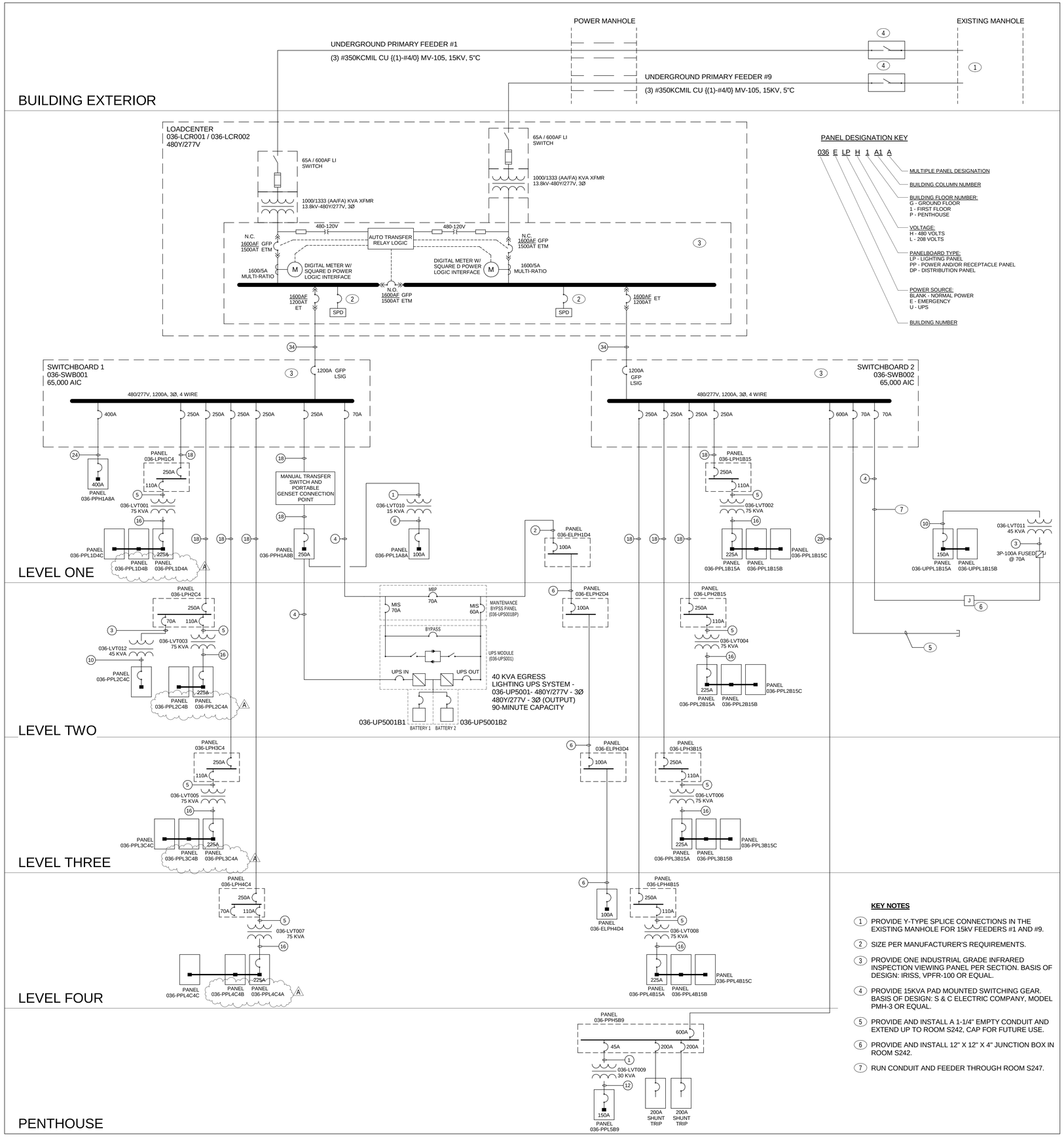
FLIGHT PROJECTS BUILDING

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION

GODDARD SPACE FLIGHT CENTER GREENBELT, MARYLAND
FACILITIES MANAGEMENT DIVISION

DATE ISSUED	CoF CODE OR WR#	AECOM PROJECT NO.	SCALE
10/12/2012	12GXAZ	60187636	1/8" = 1'-0"

FILE DATE: 11/29/2012 3:01:20 PM



PANEL DESIGNATION KEY

036 E LP H 1 A1 A

- MULTIPLE PANEL DESIGNATION
- BUILDING COLUMN NUMBER
- BUILDING FLOOR NUMBER:
  G - GROUND FLOOR
  1 - FIRST FLOOR
  P - PENTHOUSE
- VOLTAGE:
  H - 480 VOLTS
  L - 208 VOLTS
- PANELBOARD TYPE:
  LP - LIGHTING PANEL
  PP - POWER AND/OR RECEPTACLE PANEL
  DP - DISTRIBUTION PANEL
- POWER SOURCE:
  BLANK - NORMAL POWER
  E - EMERGENCY
  U - UPS
- BUILDING NUMBER

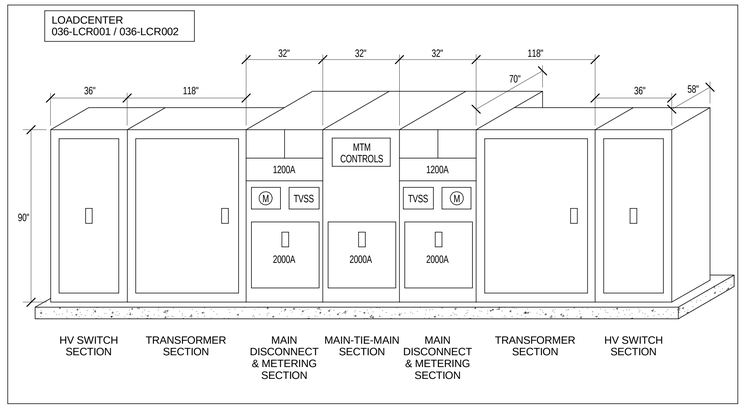
KEY NOTES

1. PROVIDE Y-TYPE SPLICE CONNECTIONS IN THE EXISTING MANHOLE FOR 15kV FEEDERS #1 AND #9.
2. SIZE PER MANUFACTURER'S REQUIREMENTS.
3. PROVIDE ONE INDUSTRIAL GRADE INFRARED INSPECTION VIEWING PANEL PER SECTION. BASIS OF DESIGN: IRISS, VPFR-100 OR EQUAL.
4. PROVIDE 15KVA PAD MOUNTED SWITCHING GEAR. BASIS OF DESIGN: S & C ELECTRIC COMPANY, MODEL PMH-3 OR EQUAL.
5. PROVIDE AND INSTALL A 1-1/4" EMPTY CONDUIT AND EXTEND UP TO ROOM S242, CAP FOR FUTURE USE.
6. PROVIDE AND INSTALL 12" X 12" X 4" JUNCTION BOX IN ROOM S242.
7. RUN CONDUIT AND FEEDER THROUGH ROOM S247.

LEGEND OF FEEDER SIZES - COPPER CONDUCTORS

FEEDER SYMBOL	CONDUCTORS (3-WIRE, 3Ø) WITH GROUND	RACEWAY SIZE/QTY	CONDUCTORS (4-WIRE, 3Ø) WITH GROUND	RACEWAY SIZE/QTY	AMPS
1	THREE #4 & ONE #8 GND	1"			65
2			FOUR #4 & ONE #8 GND	1"	
3	3HREE #4 & ONE #8 GND	1-1/4"			85
4			FOUR #3 & ONE #8 GND	1-1/4"	
5	THREE #2 & ONE #8 GND	1-1/4"			115
6			FOUR #2 & ONE #8 GND	1-1/2"	
7	THREE #1 & ONE #6 GND	1-1/2"			130
8			FOUR #1 & ONE #6 GND	1-1/2"	
9	THREE #1/0 & ONE #6 GND	1-1/2"			150
10			FOUR #1/0 & ONE #6 GND	2"	
11	THREE #2/0 & ONE #6 GND	2"			175
12			FOUR #2/0 & ONE #6 GND	2"	
13	THREE #3/0 & ONE #6 GND	2"			200
14			FOUR #3/0 & ONE #6 GND	2"	
15	THREE #4/0 & ONE #4 GND	2"			230
16			FOUR #4/0 & ONE #4 GND	2-1/2"	
17	THREE 250 KCMIL & ONE #4 GND	2-1/2"			255
18			FOUR 250 KCMIL & ONE #4 GND	3"	
19	THREE 350 KCMIL & ONE #3 GND	3"			310
20			FOUR 350 KCMIL & ONE #4 GND	3"	
21	THREE 500 KCMIL & ONE #3 GND	3"			380
22			FOUR 500 KCMIL & ONE #3 GND	3-1/2"	
23	THREE #3/0 & ONE #3 GND EACH RACEWAY	(2) 2"			400
24			FOUR #3/0 & ONE #3 GND EACH RACEWAY	(2) 2"	
24			FIVE #3/0 & ONE #3 GND EACH RACEWAY	(2) 2-1/2"	
25	THREE 250 KCMIL & ONE #2 GND EACH RACEWAY	(2) 3"			500
26			FOUR 250 KCMIL & ONE #2 GND EACH RACEWAY	(2) 3"	
27	THREE 350 KCMIL & ONE #1 GND EACH RACEWAY	(2) 3"			600
28			FOUR 350 KCMIL & ONE #1 GND EACH RACEWAY	(2) 3"	
29	THREE 300 KCMIL & ONE #1/0 GND EACH RACEWAY	(3) 2-1/2"			800
30			FOUR 300 KCMIL & ONE #1/0 GND EACH RACEWAY	(3) 3"	
31	THREE 400 KCMIL & ONE #2/0 GND EACH RACEWAY	(3) 3"			1000
32			FOUR 400 KCMIL & ONE #2/0 GND EACH RACEWAY	(3) 3"	
33	THREE 350 KCMIL & ONE #3/0 GND EACH RACEWAY	(4) 2-1/2"			1200
34			FOUR 350 KCMIL & ONE #3/0 GND EACH RACEWAY	(4) 3"	
35	THREE 500 & ONE #4/0 GND EACH RACEWAY	(4) 3"			1350
36			FOUR 500 KCMIL & ONE #4/0 GND EACH RACEWAY	(4) 3-1/2"	
37	THREE 400 KCMIL & ONE #4/0 GND EACH RACEWAY	(5) 2-1/2"			1600
38			FOUR 400 KCMIL & ONE #4/0 GND EACH RACEWAY	(5) 3"	
39	THREE 400 KCMIL & ONE 250 KCMIL GND EACH RACEWAY	(6) 2-1/2"			2000
40			FOUR 500 KCMIL & ONE 250 KCMIL GND EACH RACEWAY	(6) 3"	
41	THREE 500 KCMIL & ONE 350 KCMIL GND EACH RACEWAY	(7) 3"			2500
42			FOUR 500 KCMIL & ONE 350 KCMIL GND EACH RACEWAY	(7) 3"	
43	THREE 500 KCMIL & ONE 400 KCMIL GND EACH RACEWAY	(8) 3"			3000
44			FOUR 500 KCMIL & ONE 400 KCMIL GND EACH RACEWAY	(8) 3-1/2"	
45	THREE 500 KCMIL & ONE 500 KCMIL GND EACH RACEWAY	(9) 3"			3200
46			FOUR 500 KCMIL & ONE 500 KCMIL GND EACH RACEWAY	(9) 3-1/2"	
47	THREE 500 KCMIL & ONE 500 KCMIL GND EACH RACEWAY	(10) 3"			3500
48			FOUR 500 KCMIL & ONE 500 KCMIL GND EACH RACEWAY	(10) 3-1/2"	
49	THREE 500 KCMIL & ONE 500 KCMIL GND EACH RACEWAY	(11) 3"			4000
50			FOUR 500 KCMIL & ONE 500 KCMIL GND EACH RACEWAY	(11) 3-1/2"	

NOTE: 1. NOT ALL SIZES INDICATED IN SCHEDULE ARE USED IN THIS PROJECT.
2. WHERE A NUMBER IN PARENTHESIS IS SHOWN (#), IT INDICATES NUMBER OF PARALLEL SETS.



100% SUBMITTAL

AECOM
AECOM TECHNICAL SERVICES, INC.
3101 WILSON BOULEVARD
SUITE 900
ARLINGTON, VA 22201
T: 703-682-4900 F: 703.682.4901
www.aecom.com

SEAL AREA

STATE OF MARYLAND
PROFESSIONAL ENGINEER
No. 49968
11-27-2012

KEY PLAN

REV	DATE	DESCRIPTION	S&R BR.	CUSTOMER	PM	SECT. HEAD
A	11/29/12	Addendum No. 6				

	INITIALS	DATE
DRAWN BY	LB/BF	
CHECKED BY	JR/MM	
A-E MANAGER	EW	
ENVIRONMENTAL BRANCH	JH	
SAFETY BRANCH	CS	
CM	MMD	
PM	RWP	
CUSTOMER	JWB	
ENG. BRANCH	DGL	

ELECTRICAL ONE-LINE RISER DIAGRAM

E-600

FLIGHT PROJECTS BUILDING

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION

GODDARD SPACE FLIGHT CENTER GREENBELT, MARYLAND
FACILITIES MANAGEMENT DIVISION

DATE ISSUED	CoF CODE OR WR#	AECOM PROJECT NO.	SCALE
10/12/2012	12GXAZ	60187636	1/8" = 1'-0"

FILE DATE: 11/29/2012 10:38:45 AM

Branch Panel: 036-UPPL1B15A

Location: TELECOM C115 **Volts:** 120/208 Wye **A.I.C. Rating:** 22,000
Supply From: 036-LVT011 **Phases:** 3 **Mains Type:** MCB
Mounting: Surface **Wires:** 4 **Mains Rating:** 150 A
Enclosure: NEMA 1 **MCB Rating:** 150 A

Notes:

CKT	Circuit Description	Trip	Poles	A		B		C		Poles	Trip	Circuit Description	CKT
1	GENERAL, TELECOM; C115	20 A	1	0 kVA	0 kVA					1	20 A	GENERAL, TELECOM; C115	2
3	GENERAL, TELECOM; C115	20 A	2			0 kVA	0 kVA			2	20 A	GENERAL, TELECOM; C115	4
5	--	--	--					0 kVA	0 kVA	--	--	--	6
7	GENERAL, TELECOM; C215	20 A	1	0 kVA	0 kVA					1	20 A	GENERAL, TELECOM; C215	8
9	GENERAL, TELECOM; C215	20 A	2			0 kVA	0 kVA			2	20 A	GENERAL, TELECOM; C215	10
11	--	--	--					0 kVA	0 kVA	--	--	--	12
13	GENERAL, TELECOM; C315	20 A	1	0 kVA	0 kVA					1	20 A	GENERAL, TELECOM; C315	14
15	GENERAL, TELECOM; C315	20 A	2			0 kVA	0 kVA			2	20 A	GENERAL, TELECOM; C315	16
17	--	--	--					0 kVA	0 kVA	--	--	--	18
19	GENERAL, TELECOM; C415	20 A	1	0 kVA	0 kVA					1	20 A	GENERAL, TELECOM; C415	20
21	GENERAL, TELECOM; C415	20 A	2			0 kVA	0 kVA			2	20 A	GENERAL, TELECOM; C415	22
23	--	--	--					0 kVA	0 kVA	--	--	--	24
25	GENERAL, SERVER RM; N111A	20 A	1	0 kVA	0 kVA					1	20 A	GENERAL, SERVER RM; N111A	26
27	GENERAL, SERVER RM; N111A	20 A	2			0 kVA	0 kVA			2	20 A	GENERAL, SERVER RM; N111A	28
29	--	--	--					0 kVA	0 kVA	--	--	--	30
31	Spare	20 A	1	0 kVA	0 kVA					1	20 A	Spare	32
33	Spare	20 A	1			0 kVA	0 kVA			1	20 A	Spare	34
35	Spare	20 A	1					0 kVA	0 kVA	1	20 A	Spare	36
37	Spare	20 A	3	0 kVA	0 kVA					1	20 A	Spare	38
39	--	--	--			0 kVA	0 kVA			1	20 A	Spare	40
41	--	--	--					0 kVA	0 kVA	1	20 A	Spare	42
			Total Load:	3 kVA		2 kVA		2 kVA					
			Total Amps:	24 A		14 A		14 A					

Legend:

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
Other	6 kVA	100.00%	6 kVA		
				Total Conn. Load:	6 kVA
				Total Est. Demand:	6 kVA
				Total Conn. Current:	17 A
				Total Est. Demand Current:	17 A

Notes:
PROVIDE PANEL WITH FEED THROUGH LUGS FOR PANEL "036-UPPL1B15B".

Branch Panel: 036-UPPL1B15B

Location: TELECOM C115 **Volts:** 120/208 Wye **A.I.C. Rating:** 22,000
Supply From: 036-UPPL1B15A **Phases:** 3 **Mains Type:** MLO
Mounting: Surface **Wires:** 4 **Mains Rating:** 150 A
Enclosure: NEMA 1 **MCB Rating:** N/A

Notes:

CKT	Circuit Description	Trip	Poles	A		B		C		Poles	Trip	Circuit Description	CKT
1	Spare	20 A	1	0 kVA	0 kVA					1	20 A	Spare	2
3	Spare	20 A	1			0 kVA	0 kVA			1	20 A	Spare	4
5	Spare	20 A	1					0 kVA	0 kVA	1	20 A	Spare	6
7	Spare	20 A	1	0 kVA	0 kVA					1	20 A	Spare	8
9	Spare	20 A	1			0 kVA	0 kVA			1	20 A	Spare	10
11	Spare	20 A	1					0 kVA	0 kVA	1	20 A	Spare	12
13	Spare	20 A	1	0 kVA	0 kVA					1	20 A	Spare	14
15	Spare	20 A	1			0 kVA	0 kVA			1	20 A	Spare	16
17	Spare	20 A	1					0 kVA	0 kVA	1	20 A	Spare	18
19	Spare	20 A	1	0 kVA	0 kVA					1	20 A	Spare	20
21	Spare	20 A	1			0 kVA	0 kVA			1	20 A	Spare	22
23	Spare	20 A	1					0 kVA	0 kVA	1	20 A	Spare	24
25	Spare	20 A	1	0 kVA	0 kVA					1	20 A	Spare	26
27	Spare	20 A	1			0 kVA	0 kVA			1	20 A	Spare	28
29	Spare	20 A	1					0 kVA	0 kVA	1	20 A	Spare	30
31	Spare	20 A	1	0 kVA	0 kVA					1	20 A	Spare	32
33	Spare	20 A	1			0 kVA	0 kVA			1	20 A	Spare	34
35	Spare	20 A	1					0 kVA	0 kVA	1	20 A	Spare	36
37	Spare	20 A	1	0 kVA	0 kVA					1	20 A	Spare	38
39	Spare	20 A	1			0 kVA	0 kVA			1	20 A	Spare	40
41	Spare	20 A	1					0 kVA	0 kVA	1	20 A	Spare	42
			Total Load:	0 kVA		0 kVA		0 kVA					
			Total Amps:	0 A		0 A		0 A					

Legend:

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
				Total Conn. Load:	0 kVA
				Total Est. Demand:	0 kVA
				Total Conn. Current:	0 A
				Total Est. Demand Current:	0 A

Notes:

Branch Panel: 036-PPH1A8A

Location: SWITCHGEAR/ ELECTRICAL **Volts:** 480/277 Wye **A.I.C. Rating:** 45,000
Supply From: 036-SWB001 **Phases:** 3 **Mains Type:** MCB
Mounting: Surface **Wires:** 4 **Mains Rating:** 400 A
Enclosure: NEMA 1 **MCB Rating:** 400 A

Notes:

CKT	Circuit Description	Trip	Poles	A		B		C		Poles	Trip	Circuit Description	CKT
1	HWP003; MECH PUMP ROOM C111	40 A	3	4 kVA	4 kVA					3	40 A	HWP004; MECH PUMP ROOM C111	2
3	--	--	--			4 kVA	4 kVA			--	--	--	4
5	--	--	--					4 kVA	4 kVA	--	--	--	6
7	CWP001; MECH PUMP ROOM C111	60 A	3	5 kVA	5 kVA					3	60 A	CWP002; MECH PUMP ROOM C111	8
9	--	--	--			5 kVA	5 kVA			--	--	--	10
11	--	--	--					5 kVA	5 kVA	--	--	--	12
13	CWP003; MECH PUMP ROOM C111	40 A	3	4 kVA	4 kVA					3	40 A	CWP004; MECH PUMP ROOM C111	14
15	--	--	--			4 kVA	4 kVA			--	--	--	16
17	--	--	--					4 kVA	4 kVA	--	--	--	18
19	SAF001; MECH PUMP ROOM C111	20 A	3	1 kVA	0 kVA					1	20 A	Spare	20
21	--	--	--			1 kVA	0 kVA			1	20 A	Spare	22
23	--	--	--					1 kVA	0 kVA	1	20 A	Spare	24
25	Spare	20 A	1	0 kVA	0 kVA					1	20 A	Spare	26
27	Spare	20 A	1			0 kVA	0 kVA			1	20 A	Spare	28
29	Spare	20 A	1					0 kVA	0 kVA	1	20 A	Spare	30
31	Spare	20 A	1	0 kVA	0 kVA					1	20 A	Spare	32
33	Spare	20 A	1			0 kVA	0 kVA			1	20 A	Spare	34
35	Spare	20 A	1					0 kVA	0 kVA	1	20 A	Spare	36
37	Spare	20 A	1	0 kVA	0 kVA					1	20 A	Spare	38
39	Spare	20 A	1			0 kVA	0 kVA			1	20 A	Spare	40
41	Spare	20 A	1					0 kVA	0 kVA	1	20 A	Spare	42
			Total Load:	27 kVA		27 kVA		27 kVA					
			Total Amps:	99 A		99 A		99 A					

Legend:

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
Other	82 kVA	100.00%	82 kVA		
				Total Conn. Load:	82 kVA
				Total Est. Demand:	82 kVA
				Total Conn.:	99 A
				Total Est. Demand:	99 A

Notes:

Branch Panel: 036-PPH5B9

Location: PENTHOUSE C500 **Volts:** 480/277 Wye **A.I.C. Rating:** 45,000
Supply From: 036-SWB002 **Phases:** 3 **Mains Type:** MCB
Mounting: Surface **Wires:** 4 **Mains Rating:** 600 A
Enclosure: NEMA 1 **MCB Rating:** 600 A

Notes:

CKT	Circuit Description	Trip	Poles	A		B		C		Poles	Trip	Circuit Description	CKT
1	036-ACS001	125 A	3	15 kVA	15 kVA					3	125 A	036-ACS002	2
3	--	--	--			15 kVA	15 kVA			--	--	--	4
5	--	--	--					15 kVA	15 kVA	--	--	--	6
7	ELEV. DISCONNECT	200 A	3	0 kVA	0 kVA					3	200 A	ELEV. DISCONNECT	8
9	--	--	--			0 kVA	0 kVA			--	--	--	10
11	--	--	--					0 kVA	0 kVA	--	--	--	12
13	036-EXH001	20 A	3	0 kVA	0 kVA					1	20 A	Spare	14
15	--	--	--			0 kVA	0 kVA			1	20 A	Spare	16
17	--	--	--					0 kVA	0 kVA	1	20 A	Spare	18
19	Spare	20 A	1	0 kVA	0 kVA					1	20 A	Spare	20
21	Spare	20 A	1			0 kVA	0 kVA			1	20 A	Spare	22
23	Spare	20 A	1					0 kVA	0 kVA	1	20 A	Spare	24
25	Spare	20 A	1	0 kVA	0 kVA					1	20 A	Spare	26
27	Spare	20 A	1			0 kVA	0 kVA			1	20 A	Spare	28
29	Spare	20 A	1					0 kVA	0 kVA	1	20 A	Spare	30
31	Spare	20 A	1	0 kVA	0 kVA					1	20 A	Spare	32
33	Spare	20 A	1			0 kVA	0 kVA			1	20 A	Spare	34
35	Spare	20 A	1					0 kVA	0 kVA	1	20 A	Spare	36
37	PANEL 036-PPL5B9 VIA 036-LVT009	45 A	3	3 kVA	0 kVA					1	20 A	Spare	38
39	--	--	--			4 kVA	0 kVA			1	20 A	Spare	40
41	--	--	--					2 kVA	0 kVA	1	20 A	Spare	42
			Total Load:	34 kVA		35 kVA		33 kVA					
			Total Amps:	124 A		126 A		120 A					

Legend:

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
Other	99 kVA	100.00%	99 kVA		
				Total Conn. Load:	102 kVA
				Total Est. Demand:	102 kVA
				Total Conn. Current:	123 A
				Total Est. Demand Current:	123 A

Notes:

Branch Panel: 036-LPH1B15

Location: ELEC ROOM S147 **Volts:** 480/277 Wye **A.I.C. Rating:** 45,000
Supply From: 036-SWB002 **Phases:** 3 **Mains Type:** MCB
Mounting: Surface **Wires:** 4 **Mains Rating:** 250 A
Enclosure: NEMA 1 **MCB Rating:** 250 A

Notes:

CKT	Circuit Description	Trip	Poles	A		B		C		Poles	Trip	Circuit Description	CKT
1	OFFICES; S130A, S130B, S130C, S130D, S130E,	20 A	1	2 kVA	1 kVA					1	20 A	OFFICES; S102, S104, S106, S120	2
3	OFFICES; S156, S154, S158, S150	20 A	1			1 kVA	2 kVA			1	20 A	CORE SPACES; S119, S147, S109, S111, S113,	4
5	CONF. ROOM; S107	20 A	1					1 kVA	1 kVA	1	20 A	CORRIDORS; S430K, S100	6
7	SMALL CONF. ROOM; S141	20 A	1	0 kVA	2 kVA					1	20 A	LOBBY CORE; C100	8
9	SMALL CONF. ROOM; S123	20 A	1			0 kVA	3 kVA			1	20 A	LOBBY; C200-1, C200B	10
11	LOBBY; C300, C300B	20 A	1					2 kVA	0 kVA	3	20 A	SUP001; ELEV. PIT	12
13	LOBBY; C400, C400B, C401	20 A	1	3 kVA	0 kVA					--	--	--	14
15	TRASH COMPACTOR	20 A	3			2 kVA	0 kVA			--	--	--	16
17	--	--	--					2 kVA	2 kVA	3	20 A	TRASH COMPACTOR	18
19	--	--	--	2 kVA	2 kVA					--	--	--	20
21	SITE LIGHTING	20 A	2			0 kVA	2 kVA			--	--	--	22
23	--	--	--					0 kVA	1 kVA	1	20 A	SITE LIGHTING	24
25	SITE LIGHTING	20 A	1	1 kVA	0 kVA					1	20 A	Spare	26
27	Spare	20 A	1			0 kVA	1 kVA			1	20 A	SITE LIGHTING CONTROLS	28
29	SITE LIGHTING	20 A	2					0 kVA	0 kVA	2	20 A	SITE LIGHTING	30
31	--	--	--	0 kVA	0 kVA					--	--	--	32
33	SITE LIGHTING	20 A	2			0 kVA	0 kVA			1	20 A	EXTERIOR LIGHTING	34
35	--	--	--					0 kVA	0 kVA	1	20 A	Spare	36
37	PANEL 036-PPL1B15A VIA 036-LVT002	110 A	3	26 kVA	0 kVA					1	20 A	Spare	38
39	--	--	--			22 kVA	0 kVA			1	20 A	Spare	40
41	--	--	--					21 kVA	0 kVA	1	20 A	Spare	42
			Total Load:	40 kVA		34 kVA		32 kVA					
			Total Amps:	143 A		122 A		114 A					

Legend:

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
Lighting	20 kVA	125.00%	25 kVA		
Lighting 2	0 kVA	125.00%	0 kVA	Total Conn. Load:	105 kVA
Other	48 kVA	100.00%	48 kVA	Total Est. Demand:	103 kVA
Power	14 kVA	100.00%	14 kVA	Total Conn.:	126 A
Receptacle	24 kVA	71.26%	17 kVA	Total Est. Demand:	124 A

Notes:

Branch Panel: 036-LPH1C4

Location: ELEC ROOM N147 **Volts:** 480/277 Wye **A.I.C. Rating:** 45,000
Supply From: 036-SWB001 **Phases:** 3 **Mains Type:** MCB
Mounting: Surface **Wires:** 4 **Mains Rating:** 250 A
Enclosure: NEMA 1 **MCB Rating:** 250 A

Notes:

CKT	Circuit Description	Trip	Poles	A		B		C		Poles	Trip	Circuit Description	CKT
1	OFFICES; N130I, N130H, N130D, N130E, N130F	20 A	1	1 kVA	1 kVA					1	20 A	OFFICES; N106, N108, N104, N112, N114, N116,	2
3	OFFICES; N158, N156, N154, N150, N148, N146,	20 A	1			1 kVA	0 kVA			1	20 A	CORRIDORS; N100, N130, C100B	4
5	PRODUCTION ROOM: N130J	20 A	1					1 kVA	1 kVA	1	20 A	CORE SPACES; N149, N151, N109, N111, N111A,	6
7	CONF. ROOM; N107	20 A	1	2 kVA	2 kVA					1	20 A	LOBBY CORE; C108, C107, C105, C104, C106,	8
9	Spare	20 A	1			0 kVA	0 kVA			1	20 A	Spare	10
11	Spare	20 A	1					0 kVA	0 kVA	1	20 A	Spare	12
13	Spare	20 A	1	0 kVA	0 kVA					1	20 A	Spare	14
15	Spare	20 A	1			0 kVA	0 kVA			1	20 A	Spare	16
17	Spare	20 A	1					0 kVA	0 kVA	1	20 A	Spare	18
19	Spare	20 A	1	0 kVA	0 kVA					1	20 A	Spare	20
21	Spare	20 A	1			0 kVA	0 kVA			1	20 A	Spare	22
23	Spare	20 A	1					0 kVA	0 kVA	1	20 A	Spare	24
25	Spare	20 A	1	0 kVA	0 kVA					1	20 A	Spare	26
27	Spare	20 A	1			0 kVA	0 kVA			1	20 A	Spare	28
29	Spare	20 A	1					0 kVA	0 kVA	1	20 A	Spare	30
31	Spare	20 A	1	0 kVA	0 kVA					1	20 A	Spare	32
33	Spare	20 A	1			0 kVA	0 kVA			1	20 A	Spare	34
35	Spare	20 A	1					0 kVA	0 kVA	1	20 A	Spare	36
37	PANEL 036-PPL1D4A VIA 036-LVT001	110 A	3	16 kVA	0 kVA					1	20 A	Spare	38
39	--	--	--			15 kVA	0 kVA			1	20 A	Spare	40
41	--	--	--					17 kVA	0 kVA	1	20 A	Spare	42
			Total Load:	23 kVA		16 kVA		19 kVA					
			Total Amps:	83 A		59 A		68 A					

Legend:

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
Lighting	9 kVA	125.00%	12 kVA		
Lighting 2	1 kVA	125.00%	1 kVA	Total Conn. Load:	58 kVA
Other	15 kVA	100.00%	15 kVA	Total Est. Demand:	49 kVA
Receptacle	32 kVA	65.43%	21 kVA	Total Conn.:	70 A
				Total Est. Demand:	59 A

Notes:

100% SUBMITTAL

AECOM
AECOM TECHNICAL SERVICES, INC.
3101 WILSON BOULEVARD
SUITE 900
ARLINGTON, VA 22201
T: 703-682-4900 F: 703.682.4901
www.aecom.com

SEAL AREA
STATE OF MARYLAND · JIEER REX · PROFESSIONAL ENGINEER · No. 40964 · 11-29-2012

KEY PLAN

REV	DATE	DESCRIPTION	S&R BR.	CUSTOMER	PM	SECT. HEAD
A	11/29/12	Addendum No. 6				

	INITIALS	DATE
DRAWN BY	LB/BF	
CHECKED BY	JR/MM	
A-E MANAGER	EW	
ENVIRONMENTAL BRANCH	JH	
SAFETY BRANCH	CS	
CM	MMD	
PM	RWP	
CUSTOMER	JWB	
ENG. BRANCH	DGL	

ELECTRICAL PANEL SCHEDULES

E-901

FLIGHT PROJECTS BUILDING

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION
GODDARD SPACE FLIGHT CENTER GREENBELT, MARYLAND
FACILITIES MANAGEMENT DIVISION

DATE ISSUED	CoF CODE OR WR#	AECOM PROJECT NO.	SCALE
10/12/2012	12GXAZ	60187636	

FILE DATE: 11/29/2012 4:01:23 PM

Branch Panel: 036-PPL1B15A

Location: ELEC ROOM S147
Supply From: 036-LVT002
Mounting: Surface
Enclosure: NEMA 1

Volts: 120/208 Wye
Phases: 3
Wires: 4

A.I.C. Rating: 22,000
Mains Type: MCB
Mains Rating: 225 A
MCB Rating: 225 A

Notes:

CKT	Circuit Description	Trip	Poles	A		B		C		Poles	Trip	Circuit Description	CKT
1	FCU009; STAIR 2 S140	20 A	1	0 kVA	0 kVA					1	20 A	FCU013; ELEC ROOM S147	2
3	FCU017; TELECOM C115	20 A	1			0 kVA	1 kVA			1	20 A	SK-1; PANTRY/ LOUNGE S119	4
5	Spare	20 A	1					0 kVA	0 kVA	1	20 A	Spare	6
7	GENERAL OFFICES; S154, S156, S158	20 A	1	1 kVA	0 kVA					1	20 A	GENERAL OFFICE; S158	8
9	GENERAL OFFICE; S156	20 A	1			0 kVA	0 kVA			1	20 A	GENERAL OFFICE; S154	10
11	EQUIPTMENT, OFFICE; S156	20 A	1					1 kVA	1 kVA	1	20 A	EQUIPTMENT, OFFICE; S156	12
13	EQUIPTMENT, WORKSTATIONS; S150	20 A	1	1 kVA	1 kVA					1	20 A	EQUIPTMENT, WORKSTATIONS; S150	14
15	EQUIPTMENT, WORKSTATIONS; S150	20 A	1			1 kVA	1 kVA			1	20 A	EQUIPTMENT, WORKSTATIONS; S150	16
17	EQUIPTMENT, WORKSTATIONS; S150	20 A	1					1 kVA	1 kVA	1	20 A	EQUIPTMENT, WORKSTATIONS; S150	18
19	EQUIPTMENT, WORKSTATIONS; S150	20 A	1	1 kVA	1 kVA					1	20 A	EQUIPTMENT, WORKSTATIONS; S150	20
21	EQUIPTMENT, WORKSTATIONS; S150	20 A	1			0 kVA	0 kVA			1	20 A	EQUIPTMENT, WORKSTATIONS; S150	22
23	EQUIPTMENT, WORKSTATIONS; S150	20 A	1					0 kVA	0 kVA	1	20 A	EQUIPTMENT, WORKSTATIONS; S150	24
25	GENERAL OFFICES; S102, S104, S106	20 A	1	1 kVA	0 kVA					1	20 A	GENERAL OFFICE; S102	26
27	GENERAL OFFICE; S104	20 A	1			0 kVA	0 kVA			1	20 A	GENERAL OFFICE; S106	28
29	EQUIPTMENT, OFFICE; S104	20 A	1					1 kVA	1 kVA	1	20 A	EQUIPTMENT, OFFICE; S104	30
31	EQUIPTMENT, WORKSTATIONS; S120	20 A	1	1 kVA	1 kVA					1	20 A	EQUIPTMENT, WORKSTATIONS; S120	32
33	EQUIPTMENT, WORKSTATIONS; S120	20 A	1			1 kVA	1 kVA			1	20 A	EQUIPTMENT, WORKSTATIONS; S120	34
35	EQUIPTMENT, WORKSTATIONS; S120	20 A	1					1 kVA	1 kVA	1	20 A	EQUIPTMENT, WORKSTATIONS; S120	36
37	SPARE	20 A	3	17 kVA	0 kVA					1	20 A	Spare	38
39	--	--	--			16 kVA	0 kVA			1	20 A	Spare	40
41	--	--	--					13 kVA	0 kVA	1	20 A	Spare	42
				Total Load:		26 kVA		22 kVA		21 kVA			
				Total Amps:		218 A		185 A		176 A			

Legend:

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
Other	46 kVA	100.00%	46 kVA		
				Total Conn. Load:	70 kVA
				Total Est. Demand:	63 kVA
				Total Conn. Current:	193 A
				Total Est. Demand Current:	174 A

Notes:
PROVIDE PANEL WITH FEED THROUGH LUGS FOR PANEL "036PPL1B15B".

Branch Panel: 036-PPL1B15B

Location: ELEC ROOM S147
Supply From: 036-PPL1B15A
Mounting: Surface
Enclosure: NEMA 1

Volts: 120/208 Wye
Phases: 3
Wires: 4

A.I.C. Rating: 22,000
Mains Type: MLO
Mains Rating: 225 A
MCB Rating: N/A

Notes:

CKT	Circuit Description	Trip	Poles	A		B		C		Poles	Trip	Circuit Description	CKT
1	EQUIPTMENT, WORKSTATIONS; S120	20 A	1	1 kVA	1 kVA					1	20 A	EQUIPTMENT, WORKSTATIONS; S120	2
3	EQUIPTMENT, WORKSTATIONS; S120	20 A	1			1 kVA	1 kVA			1	20 A	EQUIPTMENT, WORKSTATIONS; S120	4
5	EQUIPTMENT, WORKSTATIONS; S120	20 A	1					0 kVA	0 kVA	1	20 A	EQUIPTMENT, WORKSTATIONS; S120	6
7	EQUIPTMENT, WORKSTATIONS; S120	20 A	1	0 kVA	0 kVA					1	20 A	EQUIPTMENT, WORKSTATIONS; S120	8
9	EQUIPTMENT, WORKSTATIONS; S120	20 A	1			0 kVA	1 kVA			1	20 A	RECEPTION; S120, S130A	10
11	EQUIPTMENT, RECEPTION; S130A	20 A	1					1 kVA	1 kVA	1	20 A	EQUIPTMENT, RECEPTION; S130A	12
13	EQUIPTMENT, RECEPTION; S130H	20 A	1	1 kVA	1 kVA					1	20 A	EQUIPTMENT, RECEPTION; S130H	14
15	SMALL CONF. ROOM; S123	20 A	1			1 kVA	1 kVA			1	20 A	SMALL CONF. ROOM; S141	16
17	COPY/ SUPPLY; S121	20 A	1					0 kVA	0 kVA	1	20 A	COPY/ SUPPLY; S121	18
19	GENERAL, COPY/ SUPPLY; S121	20 A	1	0 kVA	0 kVA					1	20 A	COPY/ SUPPLY; S121	20
21	PANTRY/ LOUNGE; S119	20 A	1			0 kVA	1 kVA			1	20 A	PANTRY/ LOUNGE; S119	22
23	PANTRY/ LOUNGE; S119	20 A	1					0 kVA	1 kVA	1	20 A	GENERAL OFFICES; S149, S151	24
25	STORAGE; S115	20 A	1	1 kVA	1 kVA					1	20 A	GENERAL OFFICES; S113, S111	26
27	GENERAL OFFICES; S109, S111	20 A	1			1 kVA	1 kVA			1	20 A	GENERAL, CONF. ROOM; S107	28
29	WIREMOLD, PANTRY/ LOUNGE; S119	20 A	1					1 kVA	0 kVA	1	20 A	GENERAL, CONF. ROOM; S107	30
31	WIREMOLD, PANTRY/ LOUNGE; S119	20 A	1	1 kVA	0 kVA					1	20 A	GENERAL, CONF. ROOM; S107	32
33	GENERAL OFFICE; S130F	20 A	1			0 kVA	0 kVA			1	20 A	ELEV. PIT GFI RECEPTACLES	34
35	Spare	20 A	1					0 kVA	0 kVA	1	20 A	Spare	36
37	SPARE	20 A	3	10 kVA	0 kVA					1	20 A	Spare	38
39	--	--	--			7 kVA	0 kVA			1	20 A	Spare	40
41	--	--	--					8 kVA	0 kVA	1	20 A	Spare	42
				Total Load:		17 kVA		16 kVA		13 kVA			
				Total Amps:		142 A		134 A		105 A			

Legend:

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
Other	27 kVA	100.00%	27 kVA		
				Total Conn. Load:	46 kVA
				Total Est. Demand:	41 kVA
				Total Conn. Current:	127 A
				Total Est. Demand Current:	115 A

Notes:
PROVIDE FEED THRU LUGS FOR PANEL "036-PPL1B15C".

Branch Panel: 036-PPL1D4A

Location: ELEC ROOM N147
Supply From: 036-LVT001
Mounting: Surface
Enclosure: NEMA 1

Volts: 120/208 Wye
Phases: 3
Wires: 4

A.I.C. Rating: 22,000
Mains Type: MCB
Mains Rating: 225 A
MCB Rating: 225 A

Notes:

CKT	Circuit Description	Trip	Poles	A		B		C		Poles	Trip	Circuit Description	CKT
1	FCU001; STAIR 1 N140	20 A	1	0 kVA	0 kVA					1	20 A	FCU005, CIRCULATION; N100	2
3	CRP001, MECH PUMP ROOM; C111	20 A	1			1 kVA	2 kVA			1	20 A	HUH003, PUMP ROOM, 1ST FLOOR.	4
5	SK-1, PANTRY / LOUNGE; N119	20 A	1					1 kVA	0 kVA	1	20 A	CH-1, PUMP ROOM; 1ST FLOOR.	6
7	SK-1, VENDING; C108	20 A	1	1 kVA	1 kVA					1	20 A	EWC-1, ENTRY; C100B	8
9	Receptacle PANTRY / LOUNGE N119	20 A	1			0 kVA	0 kVA			1	20 A	Receptacle PANTRY / LOUNGE N119	10
11	GENERAL OFFICES; N130I, N130H	20 A	1					1 kVA	1 kVA	1	20 A	GENERAL OFFICES; N130G, N130F	12
13	GENERAL OFFICES; N130E, N130D	20 A	1	1 kVA	1 kVA					1	20 A	GRAPHICS; N130C, N130B	14
15	GENERAL OFFICES; N130B, N130A	20 A	1			1 kVA	1 kVA			1	20 A	PLANNING ROOM; N118	16
17	GENERAL OFFICES; N114, N116	20 A	1					1 kVA	1 kVA	1	20 A	PLANNING ROOM; N112	18
19	GENERAL OFFICES; N108, N106	20 A	1	1 kVA	1 kVA					1	20 A	PLANNING ROOM; N104	20
21	PLANNING ROOM; N144	20 A	1			1 kVA	1 kVA			1	20 A	GENERAL OFFICES; N146, N148	22
23	PLANNING ROOM; N150	20 A	1					1 kVA	1 kVA	1	20 A	GENERAL OFFICES; N154, N156	24
25	PLANNING ROOM; N158	20 A	1	1 kVA	1 kVA					1	20 A	GENERAL OFFICES; N149, N151	26
27	PRODUCTION ROOM; N130J	20 A	1			0 kVA	0 kVA			1	20 A	PRODUCTION ROOM; N130J	28
29	PRODUCTION ROOM; N130J	20 A	1					0 kVA	0 kVA	1	20 A	PRODUCTION ROOM; N130J	30
31	PRODUCTION ROOM; N130J	20 A	1	0 kVA	0 kVA					1	20 A	PRODUCTION ROOM; N130J	32
33	PRODUCTION ROOM; N130J	20 A	1			0 kVA	0 kVA			1	20 A	PRODUCTION ROOM; N130J	34
35	PRODUCTION ROOM; N130J	20 A	1					0 kVA	0 kVA	1	20 A	PRODUCTION ROOM; N130J	36
37	Spare	20 A	3	8 kVA	0 kVA					1	20 A	PRODUCTION ROOM; N130J	38
39	--	--	--			7 kVA	0 kVA			1	20 A	Spare	40
41	--	--	--					9 kVA	0 kVA	1	20 A	Spare	42
				Total Load:		16 kVA		15 kVA		17 kVA			
				Total Amps:		135 A		124 A		140 A			

Legend:

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
Other	15 kVA	100.00%	15 kVA		
				Total Conn. Load:	48 kVA
				Total Est. Demand:	37 kVA
				Total Conn. Current:	133 A
				Total Est. Demand Current:	102 A

Notes:
PROVIDE PANEL WITH FEED THROUGH LUGS FOR PANEL "036-PPL1D4B".

Branch Panel: 036-PPL1D4B

Location: ELEC ROOM N147
Supply From: 036-PPL1D4A
Mounting: Surface
Enclosure: NEMA 1

Volts: 120/208 Wye
Phases: 3
Wires: 4

A.I.C. Rating: 22,000
Mains Type: MLO
Mains Rating: 225 A
MCB Rating: N/A

Notes:

CKT	Circuit Description	Trip	Poles	A		B		C		Poles	Trip	Circuit Description	CKT
1	COPY / SUPPLY; N121	20 A	1	0 kVA	0 kVA					1	20 A	COPY / SUPPLY; N121	2
3	GENERAL, COPY / SUPPLY; N121	20 A	1			0 kVA	0 kVA			1	20 A	COPY / SUPPLY; N121	4
5	PANTRY / LOUNGE; N119	20 A	1					0 kVA	0 kVA	1	20 A	PANTRY / LOUNGE; N119	6
7	SERVER ROOM; N111A	20 A	1	0 kVA	0 kVA					1	20 A	PANTRY / LOUNGE; N119	8
9	SERVER ROOM; N111A	20 A	1			0 kVA	0 kVA			1	20 A	SERVER ROOM; N111A	10
11	IT ROOM; N111	20 A	1					0 kVA	0 kVA	1	20 A	IT ROOM; N111	12
13	IT ROOM; N111	20 A	1	0 kVA	1 kVA					1	20 A	GENERAL, CONF. ROOM; N107	14
15	WIREMOLD, PANTRY / LOUNGE; N119	20 A	1			1 kVA	0 kVA			1	20 A	GENERAL OFFICES; N107, N109	16
17	CORRIDORS; N130, N140, N100	20 A	1					1 kVA	1 kVA	1	20 A	WIREMOLD, PANTRY / LOUNGE; N119	18
19	CORRIDORS; N100	20 A	1	1 kVA	1 kVA					1	20 A	STORAGE; N117	20
21	Spare	20 A	1			0 kVA	0 kVA			1	20 A	Spare	22
23	Spare	20 A	1					0 kVA	0 kVA	1	20 A	Spare	24
25	Spare	20 A	1	0 kVA	0 kVA					1	20 A	Spare	26
27	Spare	20 A	1			0 kVA	0 kVA			1	20 A	Spare	28
29	Spare	20 A	1					0 kVA	0 kVA	1	20 A	Spare	30
31	Spare	20 A	1	0 kVA	0 kVA					1	20 A	Spare	32
33	Spare	20 A	1			0 kVA	0 kVA			1	20 A	Spare	34
35	Spare	20 A	1					0 kVA	0 kVA	1	20 A	Spare	36
37	Spare	20 A	3	4 kVA	0 kVA					1	20 A	Spare	38
39	--	--	--			5 kVA	0 kVA			1	20 A	Spare	40
41	--	--	--					6 kVA	0 kVA	1	20 A	Spare	42
				Total Load:		8 kVA		7 kVA		9 kVA			
				Total Amps:		66 A		59 A		71 A			

Legend:

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
Other	9 kVA	100.00%	9 kVA		
				Total Conn. Load:	23 kVA
				Total Est. Demand:	21 kVA
				Total Conn. Current:	65 A
				Total Est. Demand Current:	59 A

Notes:
PROVIDE PANEL WITH FEED THROUGH LUGS FOR PANEL "036-PPL1D4C".

Branch Panel: 036-PPL2B15A

Location: ELEC ROOM S247
Supply From: 036-LVT004
Mounting: Surface
Enclosure: NEMA 1

Volts: 120/208 Wye
Phases: 3
Wires: 4

A.I.C. Rating: 22,000
Mains Type: MCB
Mains Rating: 225 A
MCB Rating: 225 A

Notes:

CKT	Circuit Description	Trip	Poles	A		B		C		Poles	Trip	Circuit Description	CKT
1	FCU010, STAIR 2; S240	20 A	1	0 kVA	0 kVA					1	20 A	FCU014, ELEC. ROOM; S247	2
3	FCU018, TELECOM; C215	20 A	1			0 kVA	1 kVA			1	20 A	SK-1, PANTRY/ LOUNGE; S219	4
5	GENERAL OFFICES; S258, S256, S254	20 A	1					1 kVA	0 kVA	1	20 A	GENERAL OFFICE; S258	6
7	GENERAL OFFICE; S256	20 A	1	0 kVA	0 kVA					1	20 A	GENERAL OFFICE; S254	8
9	EQUIPTMENT, OFFICE; S256	20 A	1			1 kVA	1 kVA			1	20 A	EQUIPMENT, OFFICE; S256	10
11	EQUIPTMENT, WORKSTATIONS; S250	20 A	1					1 kVA	1 kVA	1	20 A	EQUIPTMENT, WORKSTATIONS; S250	12
13	EQUIPTMENT, WORKSTATIONS; S250	20 A	1	1 kVA	1 kVA					1	20 A	EQUIPTMENT, WORKSTATIONS; S250	14
15	EQUIPTMENT, WORKSTATIONS; S250	20 A	1			1 kVA	1 kVA			1	20 A	EQUIPTMENT, WORKSTATIONS; S250	16
17	EQUIPTMENT, WORKSTATIONS; S250	20 A	1					1 kVA	1 kVA	1	20 A	EQUIPTMENT, WORKSTATIONS; S250	18
19	EQUIPTMENT, WORKSTATIONS; S250	20 A	1	0 kVA	0 kVA					1	20 A	EQUIPTMENT, WORKSTATIONS; S250	20
21	EQUIPTMENT, WORKSTATIONS; S250	20 A	1			0 kVA	0 kVA			1	20 A	EQUIPTMENT, WORKSTATIONS; S250	22
23	GENERAL OFFICES; S206, S204, S202	20 A	1					1 kVA	0 kVA	1	20 A	GENERAL, OFFICE; S202	24
25	GENERAL, OFFICE; S204	20 A	1	0 kVA	0 kVA					1	20 A	GENERAL, OFFICE; S206	26
27	EQUIPTMENT, OFFICE; S204	20 A	1			1 kVA	1 kVA			1	20 A	EQUIPTMENT, OFFICE; S204	28
29	EQUIPTMENT, WORKSTATIONS; S220	20 A	1					1 kVA	1 kVA	1	20 A	EQUIPTMENT, WORKSTATIONS; S220	30
31	EQUIPTMENT, WORKSTATIONS; S220	20 A	1	1 kVA	1 kVA					1	20 A	EQUIPTMENT, WORKSTATIONS; S220	32
33	EQUIPTMENT, WORKSTATIONS; S220	20 A	1			1 kVA	1 kVA			1	20 A	EQUIPTMENT, WORKSTATIONS; S220	34
35	EQUIPTMENT, WORKSTATIONS; S220	20 A	1					1 kVA	1 kVA	1	20 A	EQUIPTMENT, WORKSTATIONS; S220	36
37	SPARE	20 A	3	17 kVA	0 kVA					1	20 A	Spare	38
39	--	--	--			14 kVA	0 kVA			1	20 A	Spare	40
41	--	--	--					14 kVA	0 kVA	1	20 A	Spare	42
				Total Load:		22 kVA		24 kVA		25 kVA			
				Total Amps:		185 A		199 A		205 A			

Legend:

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
Other	48 kVA	100.00%	48 kVA		
				Total Conn. Load:	71 kVA
				Total Est. Demand:	64 kVA
				Total Conn. Current:	196 A
				Total Est. Demand Current:	179 A

Notes:
PROVIDE PANEL WITH FEED THROUGH LUGS FOR PANEL "036-PPL2B15B".

Branch Panel: 036-PPL2B15B

Location: ELEC ROOM S247
Supply From: 036-PPL2B15A
Mounting: Surface
Enclosure: NEMA 1

Volts: 120/208 Wye
Phases: 3
Wires: 4

A.I.C. Rating: 22,000
Mains Type: MLO
Mains Rating: 225 A
MCB Rating: N/A

Notes:

CKT	Circuit Description	Trip	Poles	A		B		C		Poles	Trip	Circuit Description	CKT
1	EQUIPTMENT, WORKSTATIONS; S220	20 A	1	1 kVA	1 kVA					1	20 A	EQUIPTMENT, WORKSTATIONS; S220	2
3	EQUIPTMENT, WORKSTATIONS; S220	20 A	1			0 kVA	0 kVA			1	20 A	EQUIPTMENT, WORKSTATIONS; S220	4
5	EQUIPTMENT, WORKSTATIONS; S220	20 A	1					0 kVA	0 kVA	1	20 A	EQUIPTMENT, WORKSTATIONS; S220	6
7	EQUIPTMENT, WORKSTATIONS; S220	20 A	1	0 kVA	1 kVA					1	20 A	RECEPTION; S230A, S220	8
9	EQUIPTMENT, RECEPTION; S230A	20 A	1			1 kVA	1 kVA			1	20 A	EQUIPTMENT, RECEPTION; S230A	10
11	EQUIPTMENT, OFFICE; S230F	20 A	1					1 kVA	0 kVA	1	20 A	EQUIPTMENT, OFFICE; S230E	12
13	EQUIPTMENT, OFFICE; S230D	20 A	1	0 kVA	0 kVA					1	20 A	EQUIPTMENT, OFFICE; S230C	14
15	EQUIPTMENT, OFFICE; S230B	20 A	1			0 kVA	0 kVA			1	20 A	RECEPTION; S230G, S230F	16
17	EQUIPTMENT, SECRETARY; S230G	20 A	1					1 kVA	1 kVA	1	20 A	EQUIPTMENT, SECRETARY; S230G	18
19	SMALL CONF. ROOM; S241	20 A	1	1 kVA	1 kVA					1	20 A	SMALL CONF. ROOM; S223	20
21	COPY/ SUPPLY; S221	20 A	1			1 kVA	0 kVA			1	20 A	COPY/ SUPPLY; S221	22
23	COPY/ SUPPLY; S221	20 A	1					0 kVA	0 kVA	1	20 A	COPY/ SUPPLY; S221	24
25	PANTRY/ LOUNGE; S219	20 A	1	0 kVA	0 kVA					1	20 A	PANTRY/ LOUNGE; S219	26
27	PANTRY/ LOUNGE; S219	20 A	1			0 kVA	1 kVA			1	20 A	GENERAL STORAGE; S215	28
29	GENERAL OFFICES; S251, S249	20 A	1					1 kVA	1 kVA	1	20 A	GENERAL OFFICES; S213, S211	30
31	GENERAL OFFICES; S209, S211	20 A	1	1 kVA	1 kVA					1	20 A	GENERAL, CONF. ROOM; S207	32
33	GENERAL, CONF. ROOM; S207	20 A	1			1 kVA	0 kVA			1	20 A	GENERAL, CONF. ROOM; S207	34
35	GENERAL, CONF. ROOM; S207	20 A	1					0 kVA	1 kVA	1	20 A	WIREMOLD, PANTRY/ LOUNGE; S219	36
37	SPARE	20 A	3	9 kVA	1 kVA					1	20 A	WIREMOLD, PANTRY/ LOUNGE; S219	38
39	--	--	--			8 kVA	0 kVA			1	20 A	Spare	40
41	--	--	--					7 kVA	0 kVA	1	20 A	Spare	42
				Total Load:		17 kVA		14 kVA		14 kVA			
				Total Amps:		142 A		120 A		115 A			

Legend:

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
Other	27 kVA	100.00%	27 kVA		
				Total Conn. Load:	45 kVA
				Total Est. Demand:	41 kVA
				Total Conn. Current:	125 A
				Total Est. Demand Current:	114 A

Notes:
PROVIDE PANEL WITH FEED THROUGH LUGS FOR PANEL "036-PPL2B15C".

100% SUBMITTAL

AECOM
AECOM TECHNICAL SERVICES, INC.
3101 WILSON BOULEVARD
SUITE 900
ARLINGTON, VA 22201
T: 703-682-4900 F: 703.682.4901
www.aecom.com

SEAL AREA

STATE OF MARYLAND — REGISTERED PROFESSIONAL ENGINEER — No. 40966 — 11-27-2012

KEY PLAN

REV	DATE	DESCRIPTION	S&R BR.	CUSTOMER	PM	SECT. HEAD
A	11/29/12	Addendum No. 6				

	INITIALS	DATE
DRAWN BY	LB/BF	
CHECKED BY	JR/MM	
A-E MANAGER	EW	
ENVIRONMENTAL BRANCH	JH	
SAFETY BRANCH	CS	
CM	MMD	
PM	RWP	
CUSTOMER	JWB	
ENG. BRANCH	DGL	

ELECTRICAL PANEL SCHEDULES

E-903

FLIGHT PROJECTS BUILDING

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION
GODDARD SPACE FLIGHT CENTER GREENBELT, MARYLAND
FACILITIES MANAGEMENT DIVISION

DATE ISSUED	CoF CODE OR WR#	AECOM PROJECT NO.	SCALE
10/12/2012	12GXAZ	60187636	

FILE DATE: 11/29/2012 10:38:46 AM

Branch Panel: 036-PPL2B15C

Location: ELEC ROOM S247 **Volts:** 120/208 Wye **A.I.C. Rating:** 22,000
Supply From: 036-PPL2B15B **Phases:** 3 **Mains Type:** MLO
Mounting: Surface **Wires:** 4 **Mains Rating:** 225 A
Enclosure: NEMA 1 **MCB Rating:** N/A

Notes:

CKT	Circuit Description	Trip	Poles	A		B		C		Poles	Trip	Circuit Description	CKT
1	CORRIDORS; S200, S220, S250	20 A	1	1 kVA	1 kVA					1	20 A	CORRIDORS; S230H, S200	2
3	GENERAL; C215, C200A	20 A	1			1 kVA	0 kVA			1	20 A	CONF. ROOM; C202	4
5	ELEC. ROOM; S247	20 A	1					0 kVA	1 kVA	1	20 A	EQUIPMENT, OFFICE; S230F	6
7	EQUIPMENT, OFFICE; S230F	20 A	1	1 kVA	1 kVA					1	20 A	EQUIPMENT, OFFICE; S230E	8
9	EQUIPMENT, OFFICE; S230E	20 A	1			1 kVA	1 kVA			1	20 A	EQUIPMENT, OFFICE; S230D	10
11	EQUIPMENT, OFFICE; S230D	20 A	1					1 kVA	1 kVA	1	20 A	EQUIPMENT, OFFICE; S230C	12
13	EQUIPMENT, OFFICE; S230C	20 A	1	1 kVA	1 kVA					1	20 A	EQUIPMENT, OFFICE; S230B	14
15	EQUIPMENT, OFFICE; S230B	20 A	1			1 kVA	0 kVA			1	20 A	GENERAL, CONF. ROOM; S207	16
17	GENERAL, CONF. ROOM; S207	20 A	1					1 kVA	1 kVA	1	20 A	GENERAL, CONF. ROOM; S207	18
19	GENERAL, CONF. ROOM; S207	20 A	1	1 kVA	1 kVA					1	20 A	GENERAL, CONF. ROOM; S207	20
21	GENERAL, SYMOPOSIUM; C210	20 A	1			1 kVA	1 kVA			1	20 A	GENERAL, SYMOPOSIUM; C210	22
23	GENERAL, SYMOPOSIUM; C210	20 A	1					1 kVA	0 kVA	1	20 A	GENERAL, SYMOPOSIUM; C210	24
25	GENERAL, SYMOPOSIUM; C210	20 A	1	0 kVA	0 kVA					1	20 A	DOOR HARDWARE; S430S	26
27	Receptacle PANTRY/ LOUNGE S219	20 A	1			0 kVA	0 kVA			1	20 A	Receptacle PANTRY/ LOUNGE S219	28
29	Spare	20 A	1					0 kVA	0 kVA	1	20 A	Spare	30
31	Spare	20 A	1	0 kVA	0 kVA					1	20 A	Spare	32
33	Spare	20 A	1			0 kVA	0 kVA			1	20 A	Spare	34
35	Spare	20 A	1					0 kVA	0 kVA	1	20 A	Spare	36
37	Spare	20 A	1	0 kVA	0 kVA					1	20 A	Spare	38
39	Spare	20 A	1			0 kVA	0 kVA			1	20 A	Spare	40
41	Spare	20 A	1					0 kVA	0 kVA	1	20 A	Spare	42
			Total Load:	9 kVA		8 kVA		7 kVA					
			Total Amps:	73 A		67 A		61 A					

Legend:

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
Other	18 kVA	100.00%	18 kVA		
				Total Conn. Load:	24 kVA
				Total Est. Demand:	24 kVA
				Total Conn. Current:	67 A
				Total Est. Demand Current:	67 A

Notes:

Branch Panel: 036-PPL2C4A

Location: ELEC ROOM N247 **Volts:** 120/208 Wye **A.I.C. Rating:** 22,000
Supply From: 036-LVT003 **Phases:** 3 **Mains Type:** MCB
Mounting: Surface **Wires:** 4 **Mains Rating:** 225 A
Enclosure: NEMA 1 **MCB Rating:** 225 A

Notes:

CKT	Circuit Description	Trip	Poles	A		B		C		Poles	Trip	Circuit Description	CKT
1	FCU002, STAIR 1; N240	20 A	1	0 kVA	1 kVA					1	20 A	EWC-1, ENTRY; C200B	2
3	FCU006, ELEC. ROOM; N247	20 A	1			0 kVA	0 kVA			1	20 A	GENERAL OFFICES; N230G, N230F	4
5	EQUIPTMENT, WORKSTATIONS; N250	20 A	1					0 kVA	1 kVA	1	20 A	EQUIPTMENT, OFFICE; N254	6
7	GENERAL, OFFICE; N230F	20 A	1	1 kVA	1 kVA					1	20 A	RECEPTION; N230A, N230B	8
9	SK-1, PANTRY/ LOUNGE; N219	20 A	1			1 kVA	1 kVA			1	20 A	SK-1, VENDING; C208	10
11	EQUIPTMENT, OFFICE; N254	20 A	1					1 kVA	1 kVA	1	20 A	GENERAL OFFICES; N206, N204, N202	12
13	GENERAL, OFFICE; N254	20 A	1	0 kVA	0 kVA					1	20 A	GENERAL, OFFICE; N230C	14
15	GENERAL, OFFICE; N256	20 A	1			0 kVA	0 kVA			1	20 A	GENERAL, OFFICE; N230D	16
17	GENERAL, OFFICE; N258	20 A	1					0 kVA	0 kVA	1	20 A	GENERAL, OFFICE; N230E	18
19	EQUIPTMENT, WORKSTATIONS; N250	20 A	1	0 kVA	1 kVA					1	20 A	EQUIPTMENT, WORKSTATIONS; N250	20
21	EQUIPTMENT, WORKSTATIONS; N250	20 A	1			0 kVA	1 kVA			1	20 A	EQUIPTMENT, WORKSTATIONS; N250	22
23	GENERAL, OFFICE; N230B	20 A	1					0 kVA	1 kVA	1	20 A	EQUIPTMENT, WORKSTATIONS; N250	24
25	EQUIPTMENT, WORKSTATIONS; N250	20 A	1	1 kVA	1 kVA					1	20 A	EQUIPTMENT, RECEPTION; N230A	26
27	EQUIPTMENT, WORKSTATIONS; N250	20 A	1			1 kVA	1 kVA			1	20 A	EQUIPTMENT, SECRETARY; N230G	28
29	EQUIPTMENT, WORKSTATIONS; N250	20 A	1					1 kVA	1 kVA	1	20 A	EQUIPTMENT, SECRETARY; N230G	30
31	EQUIPTMENT, OFFICE; N258	20 A	1	1 kVA	1 kVA					1	20 A	GENERAL OFFICES; N254, N256, N258	32
33	EQUIPTMENT, OFFICE; N258	20 A	1			1 kVA	1 kVA			1	20 A	SMALL CONF. ROOM; N223	34
35	EQUIPTMENT, RECEPTION; N230A	20 A	1					1 kVA	1 kVA	1	20 A	SMALL CONF. ROOM; N241	36
37	Spare	20 A	3	8 kVA	0 kVA					1	20 A	Spare	38
39	--	--	--			10 kVA	0 kVA			1	20 A	Spare	40
41	--	--	--					7 kVA	0 kVA	1	20 A	Spare	42
			Total Load:	16 kVA		18 kVA		16 kVA					
			Total Amps:	129 A		152 A		136 A					

A

Legend:

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
Other	32 kVA	100.00%	32 kVA		
				Total Conn. Load:	50 kVA
				Total Est. Demand:	46 kVA
				Total Conn. Current:	139 A
				Total Est. Demand Current:	127 A

A

Notes:
PROVIDE FEED THROUGH LUGS FOR PANEL "036-PPL2C4B".

Branch Panel: 036-PPL2C4B

Location: ELEC ROOM N247 **Volts:** 120/208 Wye **A.I.C. Rating:** 22,000
Supply From: 036-PPL2C4A **Phases:** 3 **Mains Type:** MLO
Mounting: Surface **Wires:** 4 **Mains Rating:** 225 A
Enclosure: NEMA 1 **MCB Rating:** N/A

Notes:

CKT	Circuit Description	Trip	Poles	A		B		C		Poles	Trip	Circuit Description	CKT
1	EQUIPTMENT, OFFICE; N202	20 A	1	1 kVA	1 kVA					1	20 A	EQUIPTMENT, OFFICE; N202	2
3	EQUIPTMENT, OFFICE; N206	20 A	1			1 kVA	1 kVA			1	20 A	EQUIPTMENT, OFFICE; N206	4
5	EQUIPTMENT, WORKSTATIONS; N220	20 A	1					1 kVA	1 kVA	1	20 A	EQUIPTMENT, WORKSTATIONS; N220	6
7	EQUIPTMENT, WORKSTATIONS; N220	20 A	1	1 kVA	1 kVA					1	20 A	EQUIPTMENT, WORKSTATIONS; N220	8
9	EQUIPTMENT, WORKSTATIONS; N220	20 A	1			1 kVA	1 kVA			1	20 A	EQUIPTMENT, WORKSTATIONS; N220	10
11	EQUIPTMENT, WORKSTATIONS; N220	20 A	1					1 kVA	1 kVA	1	20 A	EQUIPTMENT, WORKSTATIONS; N220	12
13	EQUIPTMENT, WORKSTATIONS; N220	20 A	1	0 kVA	0 kVA					1	20 A	EQUIPTMENT, WORKSTATIONS; N220	14
15	EQUIPTMENT, WORKSTATIONS; N220	20 A	1			0 kVA	0 kVA			1	20 A	EQUIPTMENT, WORKSTATIONS; N220	16
17	GENERAL, OFFICE; N206	20 A	1					0 kVA	0 kVA	1	20 A	GENERAL, OFFICE; N204	18
19	GENERAL, OFFICE; N202	20 A	1	0 kVA	1 kVA					1	20 A	GENERAL, COPY/ SUPPLY; N221	20
21	COPY/ SUPPLY; N221	20 A	1			0 kVA	0 kVA			1	20 A	COPY/ SUPPLY; N221	22
23	COPY/ SUPPLY' N221	20 A	1					0 kVA	0 kVA	1	20 A	PANTRY/ LOUNGE; N219	24
25	PANTRY/ LOUNGE; N219	20 A	1	0 kVA	0 kVA					1	20 A	PANTRY/ LOUNGE; N219	26
27	GENERAL OFFICES; N249, N251	20 A	1			1 kVA	1 kVA			1	20 A	STORAGE; N215	28
29	GENERAL OFFICES; N213, N211	20 A	1					1 kVA	1 kVA	1	20 A	GENERAL OFFICES; N209, N211	30
31	WIREMOLD, PANTRY/ LOUNGE; N219	20 A	1	1 kVA	1 kVA					1	20 A	WIREMOLD, PANTRY/ LOUNGE; N219	32
33	GENERAL, CONF. ROOM; N207	20 A	1			1 kVA	1 kVA			1	20 A	GENERAL, CONF. ROOM; N207	34
35	GENERAL, CONF. ROOM; N207	20 A	1					0 kVA	0 kVA	1	20 A	GENERAL, CONF. ROOM; N207	36
37	Receptacle PANTRY/ LOUNGE N219	20 A	1	1 kVA	0 kVA					1	20 A	Spare	38
39	Receptacle PANTRY/ LOUNGE N219	20 A	1			1 kVA	0 kVA			1	20 A	Spare	40
41	Spare	20 A	1					0 kVA	0 kVA	1	20 A	Spare	42
			Total Load:	8 kVA		10 kVA		7 kVA					
			Total Amps:	67 A		85 A		62 A					

Legend:

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
Other	15 kVA	100.00%	15 kVA		
				Total Conn. Load:	26 kVA
				Total Est. Demand:	25 kVA
				Total Conn. Current:	71 A
				Total Est. Demand Current:	70 A

Notes:

Branch Panel: 036-PPL2C4C

Location: ELEC ROOM N247 **Volts:** 120/208 Wye **A.I.C. Rating:** 22,000
Supply From: 036-LVT012 **Phases:** 3 **Mains Type:** MCB
Mounting: Surface **Wires:** 4 **Mains Rating:** 225 A
Enclosure: NEMA 1 **MCB Rating:** 150 A

Notes:

CKT	Circuit Description	Trip	Poles	A		B		C		Poles	Trip	Circuit Description	CKT
1	CORRIDORS; N230, N250, N220, N200	20 A	1	1 kVA	1 kVA					1	20 A	CORRIDORS; N220, N250, N200	2
3	GENERAL CORE; C204, C205, C206, C203	20 A	1			1 kVA	1 kVA			1	20 A	GENERAL CORE; C207, C208	4
5	VENDING; C208	20 A	1					1 kVA	1 kVA	1	20 A	GENERAL LOBBY; C200-1	6
7	GENERAL, SYMPOSIUM; C210	20 A	1	0 kVA	0 kVA					1	20 A	GENERAL, SYMPOSIUM; C210	8
9	GENERAL, SYMPOSIUM; C210	20 A	1			0 kVA	0 kVA			1	20 A	GENERAL, SYMPOSIUM; C210	10
11	GENERAL, SYMPOSIUM; C210	20 A	1					0 kVA	0 kVA	1	20 A	GENERAL, SYMPOSIUM; C210	12
13	GENERAL, SYMPOSIUM; C210	20 A	1	0 kVA	1 kVA					1	20 A	PODIUM, SYMOPOSIUM; C210	14
15	PODIUM, SYMOPOSIUM; C210	20 A	1			1 kVA	1 kVA			1	20 A	PODIUM, SYMOPOSIUM; C210	16
17	PROJECTION SCREEN, SYMOPOSIUM; C210	20 A	1					1 kVA	1 kVA	1	20 A	PROJECTION SCREEN, SYMOPOSIUM; C210	18
19	PROJECTION SCREEN, SYMOPOSIUM; C210	20 A	1	1 kVA	1 kVA					1	20 A	PROJECTOR, SYMOPOSIUM; C210	20
21	PROJECTOR, SYMOPOSIUM; C210	20 A	1			1 kVA	1 kVA			1	20 A	PROJECTOR, SYMOPOSIUM; C210	22
23	ELEC. ROOM; N247	20 A	1					0 kVA	1 kVA	1	20 A	EQUIPMENT, OFFICE; N230F	24
25	EQUIPMENT, OFFICE; N230F	20 A	1	1 kVA	1 kVA					1	20 A	EQUIPMENT, OFFICE; N230E	26
27	EQUIPMENT, OFFICE; N230E	20 A	1			1 kVA	1 kVA			1	20 A	EQUIPMENT, OFFICE; N230D	28
29	EQUIPMENT, OFFICE; N230D	20 A	1					1 kVA	1 kVA	1	20 A	EQUIPMENT, OFFICE; N230C	30
31	EQUIPMENT, OFFICE; N230C	20 A	1	1 kVA	1 kVA					1	20 A	EQUIPMENT, OFFICE; N230B	32
33	EQUIPMENT, OFFICE; N230B	20 A	1			1 kVA	0 kVA			1	20 A	Receptacle CONF ROOM N207	34
35	GENERAL, CONF. ROOM; N207	20 A	1					0 kVA	0 kVA	1	20 A	GENERAL, CONF. ROOM; N207	36
37	GENERAL, CONF. ROOM; N207	20 A	1	1 kVA	1 kVA					1	20 A	GENERAL, CONF. ROOM; N207	38
39	Spare	20 A	1			0 kVA	0 kVA			1	20 A	Spare	40
41	Spare	20 A	1					0 kVA	0 kVA	1	20 A	Spare	42
			Total Load:	13 kVA		11 kVA		9 kVA					
			Total Amps:	111 A		88 A		72 A					

Legend:

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
Other	22 kVA	100.00%	22 kVA		
				Total Conn. Load:	33 kVA
				Total Est. Demand:	32 kVA
				Total Conn. Current:	90 A
				Total Est. Demand Current:	90 A

Notes:

Branch Panel: 036-PPL3B15A

Location: ELEC RM S347 **Volts:** 120/208 Wye **A.I.C. Rating:** 22,000
Supply From: 036-LVT006 **Phases:** 3 **Mains Type:** MCB
Mounting: Surface **Wires:** 4 **Mains Rating:** 225 A
Enclosure: NEMA 1 **MCB Rating:** 225 A

Notes:

CKT	Circuit Description	Trip	Poles	A		B		C		Poles	Trip	Circuit Description	CKT
1	FCU011, STAIR 2; S340	20 A	1	0 kVA	0 kVA					1	20 A	FCU015, ELEC. RM; S347	2
3	SK-1, PANTRY/ LOUNGE; S319	20 A	1			1 kVA	0 kVA			1	20 A	FCU019, TELECOM; C315	4
5	GENERAL, OFFICES; S358, S356, S354	20 A	1					1 kVA	0 kVA	1	20 A	GENERAL, ELEC. RM; S347	6
7	EQUIPMENT, OFFICE; S356	20 A	1	1 kVA	1 kVA					1	20 A	EQUIPMENT, OFFICE; S356	8
9	EQUIPMENT, WORKSTATIONS; S350	20 A	1			1 kVA	1 kVA			1	20 A	EQUIPMENT, WORKSTATIONS; S350	10
11	EQUIPMENT, WORKSTATIONS; S350	20 A	1					1 kVA	1 kVA	1	20 A	EQUIPMENT, WORKSTATIONS; S350	12
13	EQUIPMENT, WORKSTATIONS; S350	20 A	1	1 kVA	1 kVA					1	20 A	EQUIPMENT, WORKSTATIONS; S350	14
15	EQUIPMENT, WORKSTATIONS; S350	20 A	1			1 kVA	1 kVA			1	20 A	EQUIPMENT, WORKSTATIONS; S350	16
17	EQUIPMENT, OFFICE; S358	20 A	1					0 kVA	0 kVA	1	20 A	EQUIPMENT, OFFICE; S354	18
19	EQUIPMENT, WORKSTATIONS; S350	20 A	1	0 kVA	0 kVA					1	20 A	EQUIPMENT, WORKSTATIONS; S350	20
21	EQUIMPENT, WORKSTATIONS; S350	20 A	1			0 kVA	0 kVA			1	20 A	EQUIPMENT, WORKSTATIONS; S350	22
23	GENERAL, OFFICES; S302, S304, S306	20 A	1					1 kVA	1 kVA	1	20 A	EQUIPMENT, OFFICE; S304	24
25	EQUIPMENT, OFFICE; S304	20 A	1	1 kVA	1 kVA					1	20 A	EQUIPMENT, WORKSTATIONS; S320	26
27	EQUIPMENT, WORKSTATIONS; S320	20 A	1			1 kVA	1 kVA			1	20 A	EQUIPMENT, WORKSTATIONS; S320	28
29	EQUIPMENT, WORKSTATIONS; S320	20 A	1					1 kVA	1 kVA	1	20 A	EQUIPMENT, WORKSTATIONS; S320	30
31	EQUIPMENT, WORKSTATIONS; S320	20 A	1	1 kVA	1 kVA					1	20 A	EQUIPMENT, WORKSTATIONS; S320	32
33	EQUIPMENT, WORKSTATIONS; S320	20 A	1			1 kVA	1 kVA			1	20 A	EQUIPMENT, WORKSTATIONS; S320	34
35	EQUIPMENT, WORKSTATIONS; S320	20 A	1					1 kVA					36
37	Spare	20 A	3	14 kVA	0 kVA					1	20 A	Spare	38
39	--	--	--			13 kVA	0 kVA			1	20 A	Spare	40
41	--	--	--					13 kVA	0 kVA	1	20 A	Spare	42
			Total Load:	22 kVA		23 kVA		22 kVA					
			Total Amps:	186 A		190 A		185 A					

A

Legend:

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
Other	44 kVA	100.00%	44 kVA		
				Total Conn. Load:	67 kVA
				Total Est. Demand:	61 kVA
				Total Conn. Current:	187 A
				Total Est. Demand Current:	168 A

A

Notes:
PROVIDE PANEL WITH FEED THROUGH LUGS FOR PANEL "036-PPL3B15A".

Branch Panel: 036-PPL3B15B

Location: ELEC RM S347 **Volts:** 120/208 Wye **A.I.C. Rating:** 22,000
Supply From: 036-PPL3B15A **Phases:** 3 **Mains Type:** MLO
Mounting: Surface **Wires:** 4 **Mains Rating:** 225 A
Enclosure: NEMA 1 **MCB Rating:** N/A

Notes:

CKT	Circuit Description	Trip	Poles	A		B		C		Poles	Trip	Circuit Description	CKT
1	EQUIPMENT, RECEPTION; S330A	20 A	1	1 kVA	0 kVA					1	20 A	EQUIPMENT, OFFICE; S302	2
3	EQUIPMENT, RECEPTION; S330A	20 A	1			1 kVA	0 kVA			1	20 A	EQUIMPENT, OFFICE; S306	4
5	EQUIPMENT, OFFICE; S304	20 A	1					0 kVA	0 kVA	1	20 A	EQUIPMENT, WORKSTATIONS; S320	6
7	EQUIPMENT, WORKSTATIONS; S320	20 A	1	0 kVA	0 kVA					1	20 A	EQUIPMENT, WORKSTATIONS; S320	8
9	EQUIPMENT, WORKSTATIONS; S320	20 A	1			0 kVA	1 kVA			1	20 A	GENERAL, RECEPTION; S330A	10
11	EQUIPMENT, WORKSTATIONS; S320	20 A	1					0 kVA	1 kVA	1	20 A	GENERAL, OFFICE; S330F	12
13	GENERAL, OFFICE; S330E	20 A	1	0 kVA	0 kVA					1	20 A	GENERAL, OFFICE; S330D	14
15	GENERAL, OFFICE; S330C	20 A	1			0 kVA	0 kVA			1	20 A	GENERAL, OFFICE; S330B	16
17	EQUIPMENT, SECRETARY; S330G	20 A	1					1 kVA	1 kVA	1	20 A	EQUIPMENT, SECRETARY; S330G	18
19	GENERAL, SECRETARY; S330G	20 A	1	0 kVA	1 kVA					1	20 A	SMALL CONF. ROOM; S341	20
21	SMALL CONF. ROOM; S323	20 A	1			1 kVA	1 kVA			1	20 A	COPY/ SUPPLY; S321	22
23	COPY/ SUPPLY; S321	20 A	1					0 kVA	0 kVA	1	20 A	COPY/ SUPPLY; S321	24
25	COPY/ SUPPLY; S321	20 A	1	0 kVA	0 kVA					1	20 A	PANTRY/ LOUNGE; S319	26
27	PANTRY/ LOUNGE; S319	20 A	1			0 kVA	0 kVA			1	20 A	PANTRY/ LOUNGE; S319	28
29	STORAGE; S315	20 A	1					1 kVA	1 kVA	1	20 A	GENERAL OFFICES; S311, S313	30
31	GENERAL OFFICES; S349, S351	20 A	1	1 kVA	1 kVA					1	20 A	GENERAL OFFICE; S309	32
33	GENERAL, CONF. ROOM; S307	20 A	1			1 kVA	0 kVA			1	20 A	GENERAL, CONF. ROOM; S307	34
35	GENERAL, CONF. ROOM; S307	20 A	1					1 kVA	0 kVA	1	20 A	GENERAL, CONF. ROOM; S307	36
37	Spare	20 A	3	9 kVA	0 kVA					1	20 A	Spare	38
39	--	--	--			7 kVA	0 kVA			1	20 A	Spare	40
41	--	--	--					7 kVA	0 kVA	1	20 A	Spare	42
			Total Load:	14 kVA		13 kVA		13 kVA					
			Total Amps:	115 A		110 A		111 A					

A

Legend:

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
Other	21 kVA	100.00%	21 kVA		
				Total Conn. Load:	40 kVA
				Total Est. Demand:	36 kVA
				Total Conn. Current:	112 A
				Total Est. Demand Current:	99 A

A

Notes:
PROVIDE PANEL WITH FEED THROUGH LUGS FOR PANEL "036-PPL3B15C".

100% SUBMITTAL

NORTH

AECOM

AECOM TECHNICAL SERVICES, INC.
3101 WILSON BOULEVARD
SUITE 900
ARLINGTON, VA 22201

T: 703-682-4900 F: 703.682.4901
www.aecom.com

SEAL AREA

STATE OF MARYLAND
JIEER REN
PROFESSIONAL ENGINEER
No. 40964
11-29-2012

KEY PLAN

REV	DATE	DESCRIPTION	S&R BR.	CUSTOMER	PM	SECT. HEAD
A	11/29/12	Addendum No. 6				

	INITIALS	DATE
DRAWN BY	LB/BF	
CHECKED BY	JR/MM	
A-E MANAGER	EW	
ENVIRONMENTAL BRANCH	JH	
SAFETY BRANCH	CS	
CM	MMD	
PM	RWP	
CUSTOMER	JWB	
ENG. BRANCH	DGL	

ELECTRICAL PANEL SCHEDULES

E-904

FLIGHT PROJECTS BUILDING

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION
GODDARD SPACE FLIGHT CENTER GREENBELT, MARYLAND
FACILITIES MANAGEMENT DIVISION

DATE ISSUED	CoF CODE OR WR#	AECOM PROJECT NO.	SCALE
10/12/2012	12GXAZ	60187636	

FILE DATE: 11/29/2012 10:38:46 AM

Branch Panel: 036-PPL3B15C

Location: ELEC RM S347 | **Volts:** 120/208 Wye | **A.I.C. Rating:** 22,000
Supply From: 036-PPL3B15B | **Phases:** 3 | **Mains Type:** MLO
Mounting: Surface | **Wires:** 4 | **Mains Rating:** 225 A
Enclosure: NEMA 1 | **MCB Rating:** N/A

Notes:

CKT	Circuit Description	Trip	Poles	A		B		C		Poles	Trip	Circuit Description	CKT
1	CORRIDORS; S300, S350, S320	20 A	1	1 kVA	1 kVA					1	20 A	CORRIDORS; S330, S300	2
3	CONF. ROOM; C302	20 A	1			1 kVA	1 kVA			1	20 A	ENTRY; C300A	4
5	WIREMOLD, PANTRY/ LOUNGE; S319	20 A	1					1 kVA	1 kVA	1	20 A	WIREMOLD, PANTRY/ LOUNGE; S319	6
7	EQUIPMENT, OFFICE; S330F	20 A	1	1 kVA	1 kVA					1	20 A	EQUIPMENT, OFFICE; S330F	8
9	EQUIPMENT, OFFICE; S330E	20 A	1			1 kVA	1 kVA			1	20 A	EQUIPMENT, OFFICE; S330E	10
11	EQUIPMENT, OFFICE; S330D	20 A	1					1 kVA	1 kVA	1	20 A	EQUIPMENT, OFFICE; S330D	12
13	EQUIPMENT, OFFICE; S330C	20 A	1	1 kVA	1 kVA					1	20 A	EQUIPMENT, OFFICE; S330C	14
15	EQUIPMENT, OFFICE; S330B	20 A	1			1 kVA	1 kVA			1	20 A	EQUIPMENT, OFFICE; S330B	16
17	PROJECTOR, CONF. ROOM; S307	20 A	1					1 kVA	1 kVA	1	20 A	PROJECTOR, CONF. ROOM; S307	18
19	PROJECTION SCREEN, CONF. ROOM; S307	20 A	1	1 kVA	1 kVA					1	20 A	PROJECTION SCREEN, CONF. ROOM; S307	20
21	GENERAL, CONF. ROOM; S307	20 A	1			0 kVA	1 kVA			1	20 A	Receptacle PANTRY/ LOUNGE S319	22
23	Spare	20 A	1					0 kVA	1 kVA	1	20 A	Receptacle PANTRY/ LOUNGE S319	24
25	Spare	20 A	1	0 kVA	0 kVA					1	20 A	Spare	26
27	Spare	20 A	1			0 kVA	0 kVA			1	20 A	Spare	28
29	Spare	20 A	1					0 kVA	0 kVA	1	20 A	Spare	30
31	Spare	20 A	1	0 kVA	0 kVA					1	20 A	Spare	32
33	Spare	20 A	1			0 kVA	0 kVA			1	20 A	Spare	34
35	Spare	20 A	1					0 kVA	0 kVA	1	20 A	Spare	36
37	Spare	20 A	1	0 kVA	0 kVA					1	20 A	Spare	38
39	Spare	20 A	1			0 kVA	0 kVA			1	20 A	Spare	40
41	Spare	20 A	1					0 kVA	0 kVA	1	20 A	Spare	42
			Total Load:	9 kVA		7 kVA		7 kVA					
			Total Amps:	71 A		61 A		58 A					

Legend:

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
Other	16 kVA	100.00%	16 kVA		
				Total Conn. Load:	23 kVA
				Total Est. Demand:	23 kVA
				Total Conn. Current:	64 A
				Total Est. Demand Current:	64 A

Notes:

Branch Panel: 036-PPL3C4A

Location: ELEC ROOM N347 | **Volts:** 120/208 Wye | **A.I.C. Rating:** 22,000
Supply From: 036-LVT005 | **Phases:** 3 | **Mains Type:** MCB
Mounting: Surface | **Wires:** 4 | **Mains Rating:** 225 A
Enclosure: NEMA 1 | **MCB Rating:** 225 A

Notes:

CKT	Circuit Description	Trip	Poles	A		B		C		Poles	Trip	Circuit Description	CKT
1	FCU003, STAIR 1; N340	20 A	1	0 kVA	0 kVA					1	20 A	FCU007, ELEC. ROOM; N347	2
3	SK-1, PANTRY/ LOUNGE; N319	20 A	1			1 kVA	1 kVA			1	20 A	EWC-1, ENTRY; C300B	4
5	SK-1, VENDING; C308	20 A	1					1 kVA	1 kVA	1	20 A	EQUIPMENT, WORKSTATIONS; N350	6
7	EQUIPMENT, WORKSTATIONS; N350	20 A	1	1 kVA	1 kVA					1	20 A	EQUIPMENT, WORKSTATIONS; N350	8
9	EQUIPMENT, WORKSTATIONS; N350	20 A	1			1 kVA	1 kVA			1	20 A	EQUIPMENT, WORKSTATIONS; N350	10
11	EQUIPMENT, WORKSTATIONS; N350	20 A	1					1 kVA	1 kVA	1	20 A	EQUIPMENT, WORKSTATIONS; N350	12
13	EQUIPMENT, WORKSTATIONS; N350	20 A	1	1 kVA	1 kVA					1	20 A	EQUIPMENT, WORKSTATIONS; N340	14
15	EQUIPMENT, WORKSTATIONS; N340	20 A	1			1 kVA	1 kVA			1	20 A	EQUIPMENT, WORKSTATIONS; N340	16
17	EQUIPMENT, WORKSTATIONS; N340	20 A	1					1 kVA	1 kVA	1	20 A	EQUIPMENT, WORKSTATIONS; N327	18
19	EQUIPMENT, WORKSTATIONS; N327	20 A	1	1 kVA	1 kVA					1	20 A	EQUIPMENT, WORKSTATIONS; N327	20
21	EQUIPMENT, WORKSTATIONS; N327	20 A	1			1 kVA	1 kVA			1	20 A	EQUIPMENT, WORKSTATIONS; N327	22
23	EQUIPMENT, WORKSTATIONS; N327	20 A	1					1 kVA	1 kVA	1	20 A	EQUIPMENT, WORKSTATIONS; N320	24
25	EQUIPMENT, WORKSTATIONS; N320	20 A	1	1 kVA	1 kVA					1	20 A	EQUIPMENT, WORKSTATIONS; N320	26
27	EQUIPMENT, WORKSTATIONS; N320	20 A	1			1 kVA	1 kVA			1	20 A	EQUIPMENT, WORKSTATIONS; N320	28
29	EQUIPMENT, WORKSTATIONS; N320	20 A	1					1 kVA	1 kVA	1	20 A	EQUIPMENT, WORKSTATIONS; N320	30
31	EQUIPMENT, WORKSTATIONS; N320	20 A	1	1 kVA	1 kVA					1	20 A	EQUIPMENT, WORKSTATIONS; N320	32
33	EQUIPMENT, WORKSTATIONS; N320	20 A	1			1 kVA	1 kVA			1	20 A	EQUIPMENT, WORKSTATIONS; N320	34
35	EQUIPMENT, WORKSTATIONS; N320	20 A	1					1 kVA	1 kVA	1	20 A	EQUIPMENT, WORKSTATIONS; N320	36
37	Spare	20 A	3	12 kVA	0 kVA					1	20 A	Spare	38
39	--	--	--			9 kVA	0 kVA			1	20 A	Spare	40
41	--	--	--					9 kVA	0 kVA	1	20 A	Spare	42
			Total Load:	22 kVA		21 kVA		21 kVA					
			Total Amps:	184 A		173 A		174 A					

A

Legend:

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
Other	43 kVA	100.00%	43 kVA		
				Total Conn. Load:	64 kVA
				Total Est. Demand:	58 kVA
				Total Conn. Current:	177 A
				Total Est. Demand Current:	162 A

A

Notes:
PROVIDE PAQNEL WITH FEED THROUGH LUGS FOR PANEL "036-PPL3C4B".

Branch Panel: 036-PPL3C4B

Location: ELEC ROOM N347 | **Volts:** 120/208 Wye | **A.I.C. Rating:** 22,000
Supply From: 036-PPL3C4A | **Phases:** 3 | **Mains Type:** MLO
Mounting: Surface | **Wires:** 4 | **Mains Rating:** 225 A
Enclosure: NEMA 1 | **MCB Rating:** N/A

Notes:

CKT	Circuit Description	Trip	Poles	A		B		C		Poles	Trip	Circuit Description	CKT
1	EQUIPMENT, WORKSTATIONS; N320	20 A	1	1 kVA	1 kVA					1	20 A	EQUIPMENT, OFFICE; S430M	2
3	EQUIPMENT, OFFICE; S430M	20 A	1			1 kVA	1 kVA			1	20 A	EQUIPMENT, OFFICE; S430L	4
5	EQUIPMENT, OFFICE; S430L	20 A	1					1 kVA	0 kVA	1	20 A	EQUIPMENT, WORKSTATIONS; N350	6
7	EQUIPMENT, WORKSTATIONS; N350	20 A	1	0 kVA	0 kVA					1	20 A	EQUIPMENT, WORKSTATIONS; N350	8
9	EQUIPMENT, WORKSTATIONS; N350	20 A	1			0 kVA	0 kVA			1	20 A	EQUIPMENT, WORKSTATIONS; N350	10
11	EQUIPMENT, WORKSTATIONS; N340	20 A	1					1 kVA	0 kVA	1	20 A	EQUIPMENT, CIRCULATION; N300	12
13	EQUIPMENT, WORKSTATIONS; N327	20 A	1	0 kVA	0 kVA					1	20 A	EQUIPMENT, WORKSTATIONS; N327	14
15	EQUIPMENT, CIRCULATION; N300	20 A	1			0 kVA	0 kVA			1	20 A	EQUIPMENT, WORKSTATIONS; N320	16
17	EQUIPMENT, WORKSTATIONS; N320	20 A	1					0 kVA	0 kVA	1	20 A	EQUIPMENT, WORKSTATIONS; N320	18
19	EQUIPMENT, WORKSTATIONS; N320	20 A	1	0 kVA	0 kVA					1	20 A	EQUIPMENT, WORKSTATIONS; N320	20
21	EQUIPMENT, WORKSTATIONS; N320	20 A	1			0 kVA	0 kVA			1	20 A	EQUIPMENT, WORKSTATIONS; N320	22
23	EQUIPMENT, OFFICE; S430M	20 A	1					0 kVA	0 kVA	1	20 A	EQUIPMENT, OFFICE; S430L	24
25	SMALL CONF. ROOM; N341	20 A	1	1 kVA	1 kVA					1	20 A	SMALL CONF. ROOM; N323	26
27	COPY/ SUPPLY; N321	20 A	1			1 kVA	0 kVA			1	20 A	PANTRY/ LOUNGE; N319	28
29	PANTRY/ LOUNGE; N319	20 A	1					0 kVA	0 kVA	1	20 A	PANTRY/ LOUNGE; N319	30
31	COPY/ SUPPLY; N321	20 A	1	0 kVA	0 kVA					1	20 A	COPY/ SUPPLY; N321	32
33	COPY/ SUPPLY; N321	20 A	1			0 kVA	1 kVA			1	20 A	GENERAL, OFFICES; N313, N311	34
35	GENERAL, OFFICES; N311, N309	20 A	1					1 kVA	1 kVA	1	20 A	GENERAL, OFFICES; N349, N351	36
37	Spare	20 A	3	6 kVA	0 kVA					1	20 A	Spare	38
39	--	--	--			4 kVA	0 kVA			1	20 A	Spare	40
41	--	--	--					3 kVA	0 kVA	1	20 A	Spare	42
			Total Load:	12 kVA		9 kVA		9 kVA					
			Total Amps:	100 A		78 A		74 A					

A

Legend:

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
Other	10 kVA	100.00%	10 kVA		
				Total Conn. Load:	30 kVA
				Total Est. Demand:	25 kVA
				Total Conn. Current:	84 A
				Total Est. Demand Current:	69 A

A

Notes:
PROVIDE PANEL WITH FEED THROUGH LUGS FOR PANEL "036-PPL3C4C".

Branch Panel: 036-PPL3C4C

Location: ELEC ROOM N347 | **Volts:** 120/208 Wye | **A.I.C. Rating:** 22,000
Supply From: 036-PPL3C4B | **Phases:** 3 | **Mains Type:** MLO
Mounting: Surface | **Wires:** 4 | **Mains Rating:** 100 A
Enclosure: NEMA 1 | **MCB Rating:** N/A

Notes:

CKT	Circuit Description	Trip	Poles	A		B		C		Poles	Trip	Circuit Description	CKT
1	CORRIDORS; N350, N300	20 A	1	1 kVA	1 kVA					1	20 A	CORRIDORS; N300, N320, N350	2
3	VENDING; C308	20 A	1			1 kVA	1 kVA			1	20 A	GENERAL CORE; C308, C307	4
5	GENERAL CORE; S430N, C300	20 A	1					1 kVA	1 kVA	1	20 A	GENERAL CORE; C306, C303, C305, C304	6
7	WIREMOLD, PANTRY/ LOUNGE; N319	20 A	1	1 kVA	1 kVA					1	20 A	WIREMOLD, PANTRY/ LOUNGE; N319	8
9	ELEC. ROOM; N347	20 A	1			0 kVA	1 kVA			1	20 A	STORAGE; N315	10
11	GENERAL OFFICE; N302	20 A	1					0 kVA	0 kVA	1	20 A	GENERAL OFFICE; N302	12
13	GENERAL, CONF. ROOM; N307	20 A	1	1 kVA	1 kVA					1	20 A	GENERAL, CONF. ROOM; N307	14
15	GENERAL, CONF. ROOM; N307	20 A	1			0 kVA	0 kVA			1	20 A	GENERAL, CONF. ROOM; N307	16
17	GENERAL, CONF. ROOM; N307	20 A	1					0 kVA	0 kVA	1	20 A	GENERAL, CONF. ROOM; N307	18
19	GENERAL, CONF. ROOM; N307	20 A	1	0 kVA	1 kVA					1	20 A	PROJECTION SCREEN, CONF. ROOM; N307	20
21	PROJECTOR, CONF. ROOM; N307	20 A	1			1 kVA	0 kVA			1	20 A	Receptacle PANTRY/ LOUNGE N319	22
23	Spare	20 A	1					0 kVA	0 kVA	1	20 A	Receptacle PANTRY/ LOUNGE N319	24
25	Spare	20 A	1	0 kVA	0 kVA					1	20 A	Spare	26
27	Spare	20 A	1			0 kVA	0 kVA			1	20 A	Spare	28
29	Spare	20 A	1					0 kVA	0 kVA	1	20 A	Spare	30
31	Spare	20 A	1	0 kVA	0 kVA					1	20 A	Spare	32
33	Spare	20 A	1			0 kVA	0 kVA			1	20 A	Spare	34
35	Spare	20 A	1					0 kVA	0 kVA	1	20 A	Spare	36
37	Spare	20 A	1	0 kVA	0 kVA					1	20 A	Spare	38
39	Spare	20 A	1			0 kVA	0 kVA			1	20 A	Spare	40
41	Spare	20 A	1					0 kVA	0 kVA	1	20 A	Spare	42
			Total Load:	6 kVA		4 kVA		3 kVA					
			Total Amps:	53 A		34 A		29 A					

Legend:

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
Other	4 kVA	100.00%	4 kVA		
				Total Conn. Load:	14 kVA
				Total Est. Demand:	14 kVA
				Total Conn. Current:	39 A
				Total Est. Demand Current:	39 A

Notes:

Branch Panel: 036-PPL4B15A

Location: ELEC ROOM S447 | **Volts:** 120/208 Wye | **A.I.C. Rating:** 22,000
Supply From: 036-LVT008 | **Phases:** 3 | **Mains Type:** MCB
Mounting: Surface | **Wires:** 4 | **Mains Rating:** 225 A
Enclosure: NEMA 1 | **MCB Rating:** 225 A

Notes:

CKT	Circuit Description	Trip	Poles	A		B		C		Poles	Trip	Circuit Description	CKT
1	FCU016, ELEC. ROOM; S447	20 A	1	0 kVA	0 kVA					1	20 A	FCU012, STAIR 2; S440	2
3	SK-1, PANTRY/ LOUNGE; S419	20 A	1			1 kVA	0 kVA			1	20 A	FCU020, TELECOM; C415	4
5	GENERAL OFFICE; S430O	20 A	1					0 kVA	1 kVA	1	20 A	EQUIPMENT, WORKSTATIONS; S450	6
7	EQUIPMENT, WORKSTATIONS; S450	20 A	1	1 kVA	1 kVA					1	20 A	EQUIPMENT, WORKSTATIONS; S450	8
9	EQUIPMENT, WORKSTATIONS; S450	20 A	1			1 kVA	1 kVA			1	20 A	EQUIPMENT, WORKSTATIONS; S450	10
11	EQUIPMENT, WORKSTATIONS; S450	20 A	1					1 kVA	1 kVA	1	20 A	EQUIPMENT, WORKSTATIONS; S450	12
13	EQUIPMENT, WORKSTATIONS; S450	20 A	1	1 kVA	1 kVA					1	20 A	EQUIPMENT, WORKSTATIONS; S450	14
15	EQUIPMENT, WORKSTATIONS; S450	20 A	1			1 kVA	0 kVA			1	20 A	EQUIPMENT, OFFICE; S430O	16
17	EQUIPMENT, WORKSTATIONS; S450	20 A	1					0 kVA	0 kVA	1	20 A	EQUIPMENT, WORKSTATIONS; S450	18
19	EQUIPMENT, WORKSTATIONS; S450	20 A	1	0 kVA	0 kVA					1	20 A	EQUIPMENT, WORKSTATIONS; S450	20
21	EQUIPMENT, WORKSTATIONS; S450	20 A	1			0 kVA	0 kVA			1	20 A	GENERAL OFFICE; S402	22
23	EQUIPMENT, WORKSTATIONS; S420	20 A	1					1 kVA	1 kVA	1	20 A	EQUIPMENT, WORKSTATIONS; S420	24
25	EQUIPMENT, WORKSTATIONS; S420	20 A	1	1 kVA	1 kVA					1	20 A	EQUIPMENT, WORKSTATIONS; S420	26
27	EQUIPMENT, WORKSTATIONS; S420	20 A	1			1 kVA	1 kVA			1	20 A	EQUIPMENT, WORKSTATIONS; S420	28
29	EQUIPMENT, WORKSTATIONS; S420	20 A	1					1 kVA	1 kVA	1	20 A	EQUIPMENT, WORKSTATIONS; S420	30
31	EQUIPMENT, WORKSTATIONS; S420	20 A	1	1 kVA	1 kVA					1	20 A	EQUIPMENT, WORKSTATIONS; S420	32
33	EQUIPMENT, WORKSTATIONS; S420	20 A	1			1 kVA	1 kVA			1	20 A	EQUIPMENT, WORKSTATIONS; S420	34
35	GENERAL, SECRETARY; S430A	20 A	1					1 kVA	1 kVA	1	20 A	GENERAL, SECRETARY; S430A	36
37	Spare	20 A	3	13 kVA	1 kVA					1	20 A	Receptacle PANTRY/ LOUNGE S419	38
39	--	--	--			12 kVA	0 kVA			1	20 A	Receptacle PANTRY/ LOUNGE S419	40
41	--	--	--					10 kVA	0 kVA	1	20 A	Spare	42
			Total Load:	23 kVA		21 kVA		20 kVA					
			Total Amps:	190 A		175 A		165 A					

A

Legend:

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
Other	44 kVA	100.00%	44 kVA		
				Total Conn. Load:	64 kVA
				Total Est. Demand:	59 kVA
				Total Conn. Current:	176 A
				Total Est. Demand Current:	163 A

A

Notes:
PROVIDE PANEL WITH FEED THROUGH LUGS FOR PANEL "036-PPL4B15B".

Branch Panel: 036-PPL4B15B

Location: ELEC ROOM S447 | **Volts:** 120/208 Wye | **A.I.C. Rating:** 22,000
Supply From: 036-PPL4B15A | **Phases:** 3 | **Mains Type:** MLO
Mounting: Surface | **Wires:** 4 | **Mains Rating:** 225 A
Enclosure: NEMA 1 | **MCB Rating:** N/A

Notes:

CKT	Circuit Description	Trip	Poles	A		B		C		Poles	Trip	Circuit Description	CKT
1	EQUIPMENT, OFFICE; S402	20 A	1	0 kVA	0 kVA					1	20 A	EQUIPMENT, WORKSTATIONS; S420	2
3	EQUIPMENT, WORKSTATIONS; S420	20 A	1			0 kVA	0 kVA			1	20 A	EQUIPMENT, WORKSTATIONS; S420	4
5	EQUIPMENT, WORKSTATIONS; S420	20 A	1					0 kVA	0 kVA	1	20 A	EQUIPMENT, WORKSTATIONS; S420	6
7	EQUIPMENT, WORKSTATIONS; S420	20 A	1	0 kVA	1 kVA					1	20 A	GENERAL, OFFICE; S430A, S420	8
9	EQUIPMENT, OFFICE; S430F	20 A	1			1 kVA	0 kVA			1	20 A	EQUIPMENT, OFFICE; S430E	10
11	EQUIPMENT, OFFICE; S430D	20 A	1					0 kVA	0 kVA	1	20 A	EQUIPMENT, OFFICE; S430C	12
13	EQUIPMENT, OFFICE; S430B	20 A	1	0 kVA	0 kVA					1	20 A	GENERAL, SECRETARY; S430G	14
15	EQUIPMENT, SECRETARY; S430G	20 A	1			1 kVA	1 kVA			1	20 A	EQUIPMENT, SECRETARY; S430G	16
17	LIBRARY; S430I	20 A	1					1 kVA	1 kVA	1	20 A	COPY/ SUPPLY; S421	18
19	COPY/ SUPPLY; S421	20 A	1	0 kVA	0 kVA					1	20 A	COPY/ SUPPLY; S421	20
21	COPY/ SUPPLY; S421	20 A	1			0 kVA	0 kVA			1	20 A	PANTRY/ LOUNGE; S419	22
23	PANTRY/ LOUNGE; S419	20 A	1					0 kVA	0 kVA	1	20 A	PANTRY/ LOUNGE; S419	24
25	STORAGE; S415	20 A	1	1 kVA	1 kVA					1	20 A	GENERAL, OFFICES; S411, S413	26
27	GENERAL, OFFICES; S449, S451	20 A	1			1 kVA	1 kVA			1	20 A	GENERAL, OFFICE; S409	28
29	WIREMOLD, PANTRY/ LOUNGE; S419	20 A	1					1 kVA	1 kVA	1	20 A	WIREMOLD, PANTRY/ LOUNGE; S419	30
31	GENERAL, CONF. ROOM; S407	20 A	1	1 kVA	0 kVA					1	20 A	GENERAL, CONF. ROOM; S407	32
33	GENERAL, CONF. ROOM; S407	20 A	1			0 kVA	1 kVA			1	20 A	GENERAL, CONF. ROOM; S407	34
35	Spare	20 A	1					0 kVA	0 kVA	1	20 A	Spare	36
37	Spare	20 A	3	8 kVA	0 kVA					1	20 A	Spare	38
39	--	--	--			6 kVA	0 kVA			1	20 A	Spare	40
41	--	--	--					6 kVA	0 kVA	1	20 A	Spare	42
			Total Load:	13 kVA		12 kVA		10 kVA					
			Total Amps:	109 A		98 A		84 A					

A

Legend:

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
Other	19 kVA	100.00%	19 kVA		
				Total Conn. Load:	35 kVA
				Total Est. Demand:	32 kVA
				Total Conn. Current:	97 A
				Total Est. Demand Current:	88 A

A

Notes:
PROVIDE PANEL WITH FEED THROUGH LUGS FOR PANEL "036-PPL4B15C".

100% SUBMITTAL

NORTH

AECOM TECHNICAL SERVICES, INC.
3101 WILSON BOULEVARD
SUITE 900
ARLINGTON, VA 22201

T: 703-682-4900 F: 703.682.4901
www.aecom.com

SEAL AREA

STATE OF MARYLAND · PROFESSIONAL ENGINEER · No. 40964 · 11-29-2012

KEY PLAN

REV	DATE	DESCRIPTION	S&R BR.	CUSTOMER	PM	SECT. HEAD
A	11/29/12	Addendum No. 6				

	INITIALS	DATE
DRAWN BY	LB/BF	
CHECKED BY	JR/MM	
A-E MANAGER	EW	
ENVIRONMENTAL BRANCH	JH	
SAFETY BRANCH	CS	
CM	MMD	
PM	RWP	
CUSTOMER	JWB	
ENG. BRANCH	DGL	

ELECTRICAL PANEL SCHEDULES

E-905

FLIGHT PROJECTS BUILDING

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION
GODDARD SPACE FLIGHT CENTER GREENBELT, MARYLAND
FACILITIES MANAGEMENT DIVISION

DATE ISSUED	CoF CODE OR WR#	AECOM PROJECT NO.	SCALE
10/12/2012	12GXAZ	60187636	

FILE DATE: 11/29/2012 10:38:46 AM

Branch Panel: 036-PPL4B15C

Location: ELEC ROOM S447 **Volts:** 120/208 Wye **A.I.C. Rating:** 22,000
Supply From: 036-PPL4B15B **Phases:** 3 **Mains Type:** MLO
Mounting: Surface **Wires:** 4 **Mains Rating:** 225 A
Enclosure: NEMA 1 **MCB Rating:** N/A

Notes:

CKT	Circuit Description	Trip	Poles	A	A	B	B	C	C	Poles	Trip	Circuit Description	CKT
1	CORRIDORS; S420, S400, S450	20 A	1	1 kVA	1 kVA					1	20 A	ENTRY; C400A	2
3	CORRIDORS; S440, S400	20 A	1			1 kVA	0 kVA			1	20 A	ELEC. ROOM; S447	4
5	GENERAL, CONF. ROOM; C402	20 A	1					1 kVA	1 kVA	1	20 A	EQUIPMENT, OFFICE; S430F	6
7	EQUIPMENT, OFFICE; S430F	20 A	1	1 kVA	1 kVA					1	20 A	EQUIPMENT, OFFICE; S430E	8
9	EQUIPMENT, OFFICE; S430E	20 A	1			1 kVA	1 kVA			1	20 A	EQUIPMENT, OFFICE; S430D	10
11	EQUIPMENT, OFFICE; S430D	20 A	1					1 kVA	1 kVA	1	20 A	EQUIPMENT, OFFICE; S430C	12
13	EQUIPMENT, OFFICE; S430C	20 A	1	1 kVA	1 kVA					1	20 A	EQUIPMENT, OFFICE; S430B	14
15	EQUIPMENT, OFFICE; S430B	20 A	1			1 kVA	1 kVA			1	20 A	Other CONF ROOM S407	16
17	Other CONF ROOM S407	20 A	1					1 kVA	1 kVA	1	20 A	Other CONF ROOM S407	18
19	Other CONF ROOM S407	20 A	1	1 kVA	0 kVA					1	20 A	Receptacle CONF ROOM S407	20
21	Spare	20 A	1			0 kVA	0 kVA			1	20 A	Spare	22
23	Spare	20 A	1					0 kVA	0 kVA	1	20 A	Spare	24
25	Spare	20 A	1	0 kVA	0 kVA					1	20 A	Spare	26
27	Spare	20 A	1			0 kVA	0 kVA			1	20 A	Spare	28
29	Spare	20 A	1					0 kVA	0 kVA	1	20 A	Spare	30
31	Spare	20 A	1	0 kVA	0 kVA					1	20 A	Spare	32
33	Spare	20 A	1			0 kVA	0 kVA			1	20 A	Spare	34
35	Spare	20 A	1					0 kVA	0 kVA	1	20 A	Spare	36
37	Spare	20 A	1	0 kVA	0 kVA					1	20 A	Spare	38
39	Spare	20 A	1			0 kVA	0 kVA			1	20 A	Spare	40
41	Spare	20 A	1					0 kVA	0 kVA	1	20 A	Spare	42
			Total Load:	8 kVA		6 kVA		6 kVA					
			Total Amps:	64 A		47 A		51 A					

Legend:

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
Other	14 kVA	100.00%	14 kVA		
				Total Conn. Load:	19 kVA
				Total Est. Demand:	19 kVA
				Total Conn. Current:	54 A
				Total Est. Demand Current:	54 A

Notes:

Branch Panel: 036-PPL4C4A

Location: ELEC ROOM N447 **Volts:** 120/208 Wye **A.I.C. Rating:** 22,000
Supply From: 036-LVT007 **Phases:** 3 **Mains Type:** MCB
Mounting: Surface **Wires:** 4 **Mains Rating:** 225 A
Enclosure: NEMA 1 **MCB Rating:** 225 A

Notes:

CKT	Circuit Description	Trip	Poles	A	A	B	B	C	C	Poles	Trip	Circuit Description	CKT
1	FCU004, STAIR 1; N440	20 A	1	0 kVA	0 kVA					1	20 A	FCU008, ELEC. ROOM; N447	2
3	SK-1, PANTRY/ LOUNGE; N419	20 A	1			1 kVA	1 kVA			1	20 A	EWC-1, ENTRY; C400B	4
5	SK-1, VENDING; C408	20 A	1					1 kVA	1 kVA	1	20 A	EQUIPMENT, OFFICE; N456	6
7	EQUIPMENT, OFFICE; N456	20 A	1	1 kVA	1 kVA					1	20 A	EQUIPMENT, OFFICE; N456	8
9	EQUIPMENT, OFFICE; N456	20 A	1			1 kVA	1 kVA			1	20 A	EQUIPMENT, OFFICE; N456	10
11	EQUIPMENT, OFFICE; N456	20 A	1					1 kVA	1 kVA	1	20 A	EQUIPMENT, OFFICE; N456	12
13	EQUIPMENT, OFFICE; N456	20 A	1	1 kVA	1 kVA					1	20 A	EQUIPMENT, OFFICE; N456	14
15	EQUIPMENT, OFFICE; N456	20 A	1			1 kVA	1 kVA			1	20 A	EQUIPMENT, WORKSTATIONS; N440-1	16
17	EQUIPMENT, WORKSTATIONS; N440-1	20 A	1					1 kVA	1 kVA	1	20 A	EQUIPMENT, WORKSTATIONS; N440-1	18
19	EQUIPMENT, WORKSTATIONS; N440-1	20 A	1	1 kVA	1 kVA					1	20 A	EQUIPMENT, WORKSTATIONS; N427-1	20
21	EQUIPMENT, WORKSTATIONS; N427-1	20 A	1			1 kVA	1 kVA			1	20 A	EQUIPMENT, WORKSTATIONS; N427-1	22
23	EQUIPMENT, WORKSTATIONS; N427-1	20 A	1					1 kVA	1 kVA	1	20 A	EQUIPMENT, WORKSTATIONS; N420-1	24
25	EQUIPMENT, WORKSTATIONS; N420-1	20 A	1	1 kVA	1 kVA					1	20 A	EQUIPMENT, WORKSTATIONS; N420-1	26
27	EQUIPMENT, WORKSTATIONS; N420-1	20 A	1			1 kVA	1 kVA			1	20 A	EQUIPMENT, WORKSTATIONS; N420-1	28
29	EQUIPMENT, WORKSTATIONS; N420-1	20 A	1					1 kVA	1 kVA	1	20 A	EQUIPMENT, WORKSTATIONS; N420-1	30
31	EQUIPMENT, WORKSTATIONS; N420-1	20 A	1	1 kVA	1 kVA					1	20 A	EQUIPMENT, WORKSTATIONS; N420-1	32
33	EQUIPMENT, WORKSTATIONS; N420-1	20 A	1			1 kVA	1 kVA			1	20 A	EQUIPMENT, WORKSTATIONS; N420-1	34
35	EQUIPMENT, WORKSTATIONS; N420-1	20 A	1					1 kVA	1 kVA	1	20 A	EQUIPMENT, WORKSTATIONS; N420-1	36
37	Spare	20 A	3	11 kVA	0 kVA					1	20 A	Spare	38
39	--	--	--			9 kVA	0 kVA			1	20 A	Spare	40
41	--	--	--					10 kVA	0 kVA	1	20 A	Spare	42
			Total Load:	21 kVA		21 kVA		22 kVA					
			Total Amps:	178 A		173 A		183 A					

A

Legend:

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
Other	41 kVA	100.00%	41 kVA		
				Total Conn. Load:	64 kVA
				Total Est. Demand:	58 kVA
				Total Conn. Current:	178 A
				Total Est. Demand Current:	160 A

A

Notes:
PROVIDE PANEL WITH FEED THROUGH LUGS FOR PANEL "036-PPL4C4B".

Branch Panel: 036-PPL4C4B

Location: ELEC ROOM N447 **Volts:** 120/208 Wye **A.I.C. Rating:** 22,000
Supply From: 036-PPL4C4A **Phases:** 3 **Mains Type:** MLO
Mounting: Surface **Wires:** 4 **Mains Rating:** 225 A
Enclosure: NEMA 1 **MCB Rating:** N/A

Notes:

CKT	Circuit Description	Trip	Poles	A	A	B	B	C	C	Poles	Trip	Circuit Description	CKT
1	EQUIPMENT, WORKSTATIONS; N420-1	20 A	1	1 kVA	1 kVA					1	20 A	EQUIPMENT, WORKSTATIONS; N420-1	2
3	EQUIPMENT, WORKSTATIONS; N420-1	20 A	1			1 kVA	0 kVA			1	20 A	EQUIPMENT, OFFICE; N456	4
5	EQUIPMENT, OFFICE; N456	20 A	1					0 kVA	0 kVA	1	20 A	EQUIPMENT, OFFICE; N456	6
7	EQUIPMENT, OFFICE' N456	20 A	1	0 kVA	0 kVA					1	20 A	EQUIPMENT, WORKSTATIONS; N440-1	8
9	EQUIPMENT, WORKSTATIONS; N440-1	20 A	1			0 kVA	0 kVA			1	20 A	EQUIPMENT, WORKSTATIONS; N427-1	10
11	EQUIPMENT, WORKSTATIONS; N427-1	20 A	1					0 kVA	0 kVA	1	20 A	EQUIPMENT, WORKSTATIONS; N427-1	12
13	EQUIPMENT, WORKSTATIONS; N420-1	20 A	1	0 kVA	0 kVA					1	20 A	EQUIPMENT, WORKSTATIONS; N420-1	14
15	EQUIPMENT, WORKSTATIONS; N420-1	20 A	1			0 kVA	0 kVA			1	20 A	EQUIPMENT, WORKSTATIONS; N420-1	16
17	EQUIPMENT, WORKSTATIONS; N420-1	20 A	1					0 kVA	0 kVA	1	20 A	EQUIPMENT, WORKSTATIONS; N420-1	18
19	EQUIPMENT, WORKSTATIONS; N420-1	20 A	1	0 kVA	0 kVA					1	20 A	EQUIPMENT, OFFICE; N402	20
21	GENERAL, OFFICES; N420-1, N402	20 A	1			1 kVA	1 kVA			1	20 A	GENERAL, OFFICES; N458, N456	22
23	EQUIPMENT, OFFICE; N458	20 A	1					0 kVA	1 kVA	1	20 A	SMALL CONF. ROOM; N441	24
25	SMALL CONF. ROOM; N423	20 A	1	1 kVA	1 kVA					1	20 A	COPY/ SUPPLY; N421	26
27	COPY/ SUPPLY; N421	20 A	1			0 kVA	0 kVA			1	20 A	COPY/ SUPPLY; N421	28
29	COPY/ SUPPLY; N421	20 A	1					0 kVA	0 kVA	1	20 A	PANTRY/ LOUNGE; N419	30
31	PANTRY/ LOUNGE; N419	20 A	1	0 kVA	0 kVA					1	20 A	PANTRY/ LOUNGE; N419	32
33	GENERAL, OFFICES; N409, N411	20 A	1			1 kVA	1 kVA			1	20 A	GENERAL, OFFICES; N451, N449	34
35	GENERAL, OFFICES; N413, N411	20 A	1					1 kVA	1 kVA	1	20 A	Receptacle PANTRY/ LOUNGE N419	36
37	PANEL 036-PPL4C4C	20 A	3	5 kVA	1 kVA					1	20 A	Receptacle PANTRY/ LOUNGE N419	38
39	--	--	--			3 kVA	0 kVA			1	20 A	Spare	40
41	--	--	--					5 kVA	0 kVA	1	20 A	Spare	42
			Total Load:	11 kVA		9 kVA		10 kVA					
			Total Amps:	94 A		77 A		83 A					

A

Legend:

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
Other	8 kVA	100.00%	8 kVA		
				Total Conn. Load:	30 kVA
				Total Est. Demand:	24 kVA
				Total Conn. Current:	84 A
				Total Est. Demand Current:	67 A

A

Notes:
PROVIDE PANEL WITH FEED THROUGH LUGS FOR PANEL "036-PPL4C4C".

Branch Panel: 036-PPL4C4C

Location: ELEC ROOM N447 **Volts:** 120/208 Wye **A.I.C. Rating:** 22,000
Supply From: 036-PPL4C4B **Phases:** 3 **Mains Type:** MLO
Mounting: Surface **Wires:** 4 **Mains Rating:** 225 A
Enclosure: NEMA 1 **MCB Rating:** N/A

Notes:

CKT	Circuit Description	Trip	Poles	A	A	B	B	C	C	Poles	Trip	Circuit Description	CKT
1	CORRIDORS; N440-1, N456, N400-1, N440	20 A	1	1 kVA	1 kVA					1	20 A	CORRIDORS; N400-1	2
3	GENERAL CORE; C400, 384	20 A	1			1 kVA	1 kVA			1	20 A	VENDING; C408	4
5	GENERAL CORE; C408, C407-1	20 A	1					1 kVA	1 kVA	1	20 A	GENERAL CORE; C406, C403, C405, C404	6
7	STORAGE; N415	20 A	1	1 kVA	0 kVA					1	20 A	GENERAL, ELEC. ROOM; N447	8
9	WIREMOLD, PANTRY/ LOUNGE; N419	20 A	1			1 kVA	1 kVA			1	20 A	WIREMOLD, PANTRY/ LOUNGE; N419	10
11	GENERAL, CONF. ROOM; N407	20 A	1					1 kVA	0 kVA	1	20 A	GENERAL, CONF. ROOM; N407	12
13	GENERAL, CONF. ROOM; N407	20 A	1	0 kVA	0 kVA					1	20 A	GENERAL, CONF. ROOM; N407	14
15	GENERAL, CONF. ROOM; N407	20 A	1			0 kVA	0 kVA			1	20 A	GENERAL, CONF. ROOM; N407	16
17	GENERAL, CONF. ROOM; N407	20 A	1					1 kVA	1 kVA	1	20 A	PROJECTION SCREEN, CONF. ROOM; N407	18
19	PROJECTOR, CONF. ROOM; N407	20 A	1	1 kVA	0 kVA					1	20 A	Spare	20
21	Spare	20 A	1			0 kVA	0 kVA			1	20 A	Spare	22
23	Spare	20 A	1					0 kVA	0 kVA	1	20 A	Spare	24
25	Spare	20 A	1	0 kVA	0 kVA					1	20 A	Spare	26
27	Spare	20 A	1			0 kVA	0 kVA			1	20 A	Spare	28
29	Spare	20 A	1					0 kVA	0 kVA	1	20 A	Spare	30
31	Spare	20 A	1	0 kVA	0 kVA					1	20 A	Spare	32
33	Spare	20 A	1			0 kVA	0 kVA			1	20 A	Spare	34
35	Spare	20 A	1					0 kVA	0 kVA	1	20 A	Spare	36
37	Spare	20 A	1	0 kVA	0 kVA					1	20 A	Spare	38
39	Spare	20 A	1			0 kVA	0 kVA			1	20 A	Spare	40
41	Spare	20 A	1					0 kVA	0 kVA	1	20 A	Spare	42
			Total Load:	5 kVA		3 kVA		5 kVA					
			Total Amps:	38 A		29 A		41 A					

Legend:

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
Other	4 kVA	100.00%	4 kVA		
				Total Conn. Load:	13 kVA
				Total Est. Demand:	13 kVA
				Total Conn. Current:	36 A
				Total Est. Demand Current:	36 A

Notes:

Branch Panel: 036-PPL5B9

Location: PENTHOUSE C500 **Volts:** 120/208 Wye **A.I.C. Rating:** 22,000
Supply From: 036-LVT009 **Phases:** 3 **Mains Type:** MCB
Mounting: Surface **Wires:** 4 **Mains Rating:** 150 A
Enclosure: NEMA 1 **MCB Rating:** 150 A

Notes:

CKT	Circuit Description	Trip	Poles	A	A	B	B	C	C	Poles	Trip	Circuit Description	CKT
1	EXH003; ROOF	20 A	1	1 kVA	1 kVA					1	20 A	EXH002; ROOF	2
3	HUH002; ROOF	20 A	1			2 kVA	2 kVA			1	20 A	HUH001; ROOF	4
5	GENERAL PENTHOUSE	20 A	1					1 kVA	1 kVA	1	20 A	GENERAL PENTHOUSE	6
7	ELEV. CAB LIGHTS; PENTHOUSE	20 A	1	0 kVA	1 kVA					1	20 A	GENERAL PENTHOUSE	8
9	DOOR HARDWARE; ROOF ACCESS DOOR	20 A	1			0 kVA	0 kVA			1	20 A	ELEV. CAB LIGHTS; PENTHOUSE	10
11	FCU021; PENTHOUSE	20 A	1					0 kVA	0 kVA	1	20 A	DOOR HARDWARE; ROOF ACCESS DOOR	12
13	Spare	20 A	1	0 kVA	0 kVA					1	20 A	Spare	14
15	Spare	20 A	1			0 kVA	0 kVA			1	20 A	Spare	16
17	Spare	20 A	1					0 kVA	0 kVA	1	20 A	Spare	18
19	Spare	20 A	1	0 kVA	0 kVA					1	20 A	Spare	20
21	Spare	20 A	1			0 kVA	0 kVA			1	20 A	Spare	22
23	Spare	20 A	1					0 kVA	0 kVA	1	20 A	Spare	24
25	Spare	20 A	1	0 kVA	0 kVA					1	20 A	Spare	26
27	Spare	20 A	1			0 kVA	0 kVA			1	20 A	Spare	28
29	Spare	20 A	1					0 kVA	0 kVA	1	20 A	Spare	30
31	Spare	20 A	1	0 kVA	0 kVA					1	20 A	Spare	32
33	Spare	20 A	1			0 kVA	0 kVA			1	20 A	Spare	34
35	Spare	20 A	1					0 kVA	0 kVA	1	20 A	Spare	36
37	Spare	20 A	1	0 kVA	0 kVA					1	20 A	Spare	38
39	Spare	20 A	1			0 kVA	0 kVA			1	20 A	Spare	40
41	Spare	20 A	1					0 kVA	0 kVA	1	20 A	Spare	42
			Total Load:	3 kVA		4 kVA		2 kVA					
			Total Amps:	27 A		32 A		18 A					

Legend:

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
Other	6 kVA	100.00%	6 kVA		
Receptacle	3 kVA	100.00%	3 kVA	Total Conn. Load:	9 kVA
				Total Est. Demand:	9 kVA
				Total Conn.:	26 A
				Total Est. Demand:	26 A

Notes:

Branch Panel: 036-PPL1B15C

Location: ELEC ROOM S147 **Volts:** 120/208 Wye **A.I.C. Rating:** 22,000
Supply From: 036-PPL1B15B **Phases:** 3 **Mains Type:** MLO
Mounting: Surface **Wires:** 4 **Mains Rating:** 225 A
Enclosure: NEMA 1 **MCB Rating:** N/A

Notes:

CKT	Circuit Description	Trip	Poles	A	A	B	B	C	C	Poles	Trip	Circuit Description	CKT
1	CORRIDORS; S140, S100	20 A	1	1 kVA	1 kVA					1	20 A	CORRIDORS; S100, S120, S150	2
3	GENERAL, TELECOM; C115	20 A	1			1 kVA	0 kVA			1	20 A	GENERAL EXTERIOR	4
5	EQUIPMENT, OFFICE; S130B	20 A	1					1 kVA	1 kVA	1	20 A	EQUIPMENT, OFFICE; S130B	6
7	EQUIPMENT, OFFICE; S130C	20 A	1	1 kVA	1 kVA					1	20 A	EQUIPMENT, OFFICE; S130C	8
9	EQUIPMENT, OFFICE; S130D	20 A	1			1 kVA	1 kVA			1	20 A	EQUIPMENT, OFFICE; S130D	10
11	EQUIPMENT, OFFICE; S130E	20 A	1					1 kVA	1 kVA	1	20 A	EQUIPMENT, OFFICE; S130E	12
13	EQUIPMENT, OFFICE; S130F	20 A	1	1 kVA	1 kVA					1	20 A	EQUIPMENT, OFFICE; S130F	14
15	EQUIPMENT, OFFICE; S130G	20 A	1			1 kVA	1 kVA			1	20 A	EQUIPMENT, OFFICE; S130G	16
17	GENERAL, OFFICE; S130B	20 A	1					0 kVA	0 kVA	1	20 A	GENERAL, OFFICE; S130C	18
19	GENERAL, OFFICE; S130D	20 A	1	0 kVA	0 kVA					1	20 A	GENERAL, OFFICE; S130E	20
21	GENERAL, OFFICE; S130F	20 A	1			0 kVA	1 kVA			1	20 A	GENERAL, OFFICE; S130G	22
23	GENERAL, CONF. ROOM; S107	20 A	1					1 kVA	1 kVA	1	20 A	PROJECTOR, CONF. ROOM; S107	24
25	PROJECTOR, CONF. ROOM; S107	20 A	1	1 kVA	1 kVA					1	20 A	PROJECTION SCREEN, CONF. ROOM; S107	26
27	PROJECTION SCREEN, CONF. ROOM; S107	20 A	1			1 kVA	0 kVA			1	20 A	GENERAL, CONF. ROOM; S107	28
29	GENERAL EXTERIOR	20 A	1					0 kVA	0 kVA	1	20 A	GENERAL EXTERIOR	30
31	GENERAL EXTERIOR	20 A	1	0 kVA	0 kVA					1	20 A	GENERAL EXTERIOR	32
33	DOOR HARDWARE; C100	20 A	1			0 kVA	0 kVA			1	20 A	DOOR HARDWARE; C102	34
35	DOOR HARDWARE; S140	20 A	1					0 kVA	0 kVA	1	20 A	Spare	36
37	Spare	20 A	1	0 kVA	0 kVA					1	20 A	Spare	38
39	Spare	20 A	1			0 kVA	0 kVA			1	20 A	Spare	40
41	Spare	20 A	1					0 kVA	0 kVA	1	20 A	Spare	42
			Total Load:	10 kVA		7 kVA		8 kVA					
			Total Amps:	80 A		60 A		63 A					

Legend:

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
Other	17 kVA	100.00%	17 kVA		
				Total Conn. Load:	24 kVA
				Total Est. Demand:	24 kVA
				Total Conn. Current:	67 A
				Total Est. Demand Current:	67 A

Notes:

100% SUBMITTAL

NORTH

AECOM
AECOM TECHNICAL SERVICES, INC.
3101 WILSON BOULEVARD
SUITE 900
ARLINGTON, VA 22201
T: 703-682-4900 F: 703.682.4901
www.aecom.com

SEAL AREA

STATE OF MARYLAND PROFESSIONAL ENGINEER No. 40964 11-29-2012

KEY PLAN

REV	DATE	DESCRIPTION	S&R BR.	CUSTOMER	PM	SECT. HEAD
A	11/29/12	Addendum No. 6				

	INITIALS	DATE
DRAWN BY	LB/BF	
CHECKED BY	JR/MM	
A-E MANAGER	EW	
ENVIRONMENTAL BRANCH	JH	
SAFETY BRANCH	CS	
CM	MMD	
PM	RWP	
CUSTOMER	JWB	
ENG. BRANCH	DGL	

ELECTRICAL PANEL SCHEDULES

E-906

FLIGHT PROJECTS BUILDING

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION
GODDARD SPACE FLIGHT CENTER GREENBELT, MARYLAND
FACILITIES MANAGEMENT DIVISION

DATE ISSUED	CoF CODE OR WR#	AECOM PROJECT NO.	SCALE
10/12/2012	12GXAZ	60187636	

FILE DATE: 11/29/2012 10:38:47 AM