

Professional System Engineering



LOAD SCHEDULE		MAIN DISTRIBUTION BOARD									
NAME		MDB1			LOCATION		MDB ROOM				
CAPACITY (FDR.)		13			MAIN BAR		1600A				
CONNECTED TO		TR1			NEUTRAL		100%			GROUND : 25%	
FEEDER NO.	DESCRIPTION	CONNECTED LOAD (VA)			CIRCUIT BREAKER				CONDUCTOR		RACEWAY
		R	Y	B	POLE	AT	AF	IC	SIZE (MM²)	TYPE	
F1	GLP1	17,810	17,650	18,690	3	125	200	SYMMETRICAL SHORT CIRCUIT CURRENT I _k ≥ 25 kA _{r.m.s.}	REFER TO SCHEMATIC		
F2	1DP1	34,120	32,600	34,160	3	200	200		REFER TO SCHEMATIC		
F3	2DP1	46,014	44,904	45,454	3	300	300		REFER TO SCHEMATIC		
F4	3DP1	41,260	41,300	42,160	3	300	300		REFER TO SCHEMATIC		
F5	4DP1	31,726	28,366	28,146	3	200	200		REFER TO SCHEMATIC		
F6	5LP1	10,540	10,520	10,260	3	100	100		REFER TO SCHEMATIC		
F7	PL	14,000	14,000	14,000	3	125	200		REFER TO SCHEMATIC		
F8	SPARE				3	200	200				
F9	SPARE				3	200	200				
F10	SPACE										
F11	SPACE										
F12	EMDB	56,885	60,460	61,910	3	400	400		REFER TO SCHEMATIC		
F13	CAPACITOR BANK				3	600	600		REFER TO SCHEMATIC		
F14											
F15											
F16											
F17											
F18											
F19											
F20											
TOTAL		252,355	249,800	254,780	MAIN CB				MAIN FEEDER		RACEWAY
CONNECTED LOAD (VA)		756,935			3P 1600 AT / 1600 AF				REFER TO SCHEMATIC		
80 % DEMAND LOAD (VA)		605,548			IC ≥ 30 kA at 400 VAC						

REMARKS :

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LOAD SCHEDULE		MAIN DISTRIBUTION BOARD									
NAME		MDB2			LOCATION		MDB ROOM				
CAPACITY (FDR.)		7			MAIN BAR		1600A				
CONNECTED TO		TR2			NEUTRAL		100% ; GROUND : 25%				
FEEDER NO.	DESCRIPTION	CONNECTED LOAD (VA)			CIRCUIT BREAKER				CONDUCTOR		RACEWAY
		R	Y	B	POLE	AT	AF	IC	SIZE (MM²)	TYPE	
F1	MDP1	103,836	103,216	103,016	3	600	600	SYMMETRICAL SHORT CIRCUIT CURRENT I _k >= 25 kA r.m.s	REFER TO SCHEMATIC		
F2	AMCC-R-01	145,530	145,530	145,530	3	1250	1250		REFER TO SCHEMATIC		
F3	SPARE				3	200	200				
F4	SPARE				3	200	200				
F5	SPACE										
F6	SPACE										
F7	CAPACITOR BANK				3	600	600		REFER TO SCHEMATIC		
F8											
F9											
F10											
F11											
F12											
F13											
F14											
F15											
F16											
F17											
F18											
F19											
F20											
TOTAL		249,366	248,746	248,546	MAIN CB				MAIN FEEDER		RACEWAY
CONNECTED LOAD (VA)		746,658			3P 600 AT / 630 AF				REFER TO SCHEMATIC		
80 % DEMAND LOAD (VA)		597,326			IC >= 30 kA at 400 VAC						

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LOAD SCHEDULE		MAIN DISTRIBUTION BOARD									
NAME		EMDB			LOCATION		MDB ROOM				
CAPACITY (FDR.)		14			MAIN BAR		400A				
CONNECTED TO		MDB1			NEUTRAL		100% ; GROUND : 25%				
FEEDER NO.	DESCRIPTION	CONNECTED LOAD (VA)			CIRCUIT BREAKER				CONDUCTOR		RACEWAY
		R	Y	B	POLE	AT	AF	IC	SIZE (MM²)	TYPE	
F1	GELP1	9,310	8,040	9,000	3	60	100	SYMMETRICAL SHORT CIRCUIT CURRENT I _k >= 25 kA r.m.s	REFER TO SCHEMATIC		
F2	1ELP1	14,245	13,060	12,740	3	100	100		REFER TO SCHEMATIC		
F3	2ELP1	4,480	4,720	4,820	3	30	100		REFER TO SCHEMATIC		
F4	3ELP1	5,940	11,150	10,260	3	60	100		REFER TO SCHEMATIC		
F5	4ELP1	5,880	5,030	6,690	3	50	100		REFER TO SCHEMATIC		
F6	5ELP1	4,390	4,700	6,000	3	50	100		REFER TO SCHEMATIC		
F7	MELP1	2,640	3,760	1,900	3	30	100		REFER TO SCHEMATIC		
F8	SL	7,000	7,000	7,000	3	60	100		REFER TO SCHEMATIC		
F9	EDFP-CTR			500	2	20	100		REFER TO SCHEMATIC		
F10	1ULP1	3,000	3,000	3,000	3	30	100		REFER TO SCHEMATIC		
F11	SPARE				3	50	100				
F12	SPARE				3	50	100				
F13	SPACE										
F14	SPACE										
F15											
F16											
F17											
F18											
F19											
F20											
TOTAL		56,885	60,460	61,910	MAIN CB				MAIN FEEDER		RACEWAY
CONNECTED LOAD (VA)		179,255			3P 400 AT / 400 AF				REFER TO SCHEMATIC		
80 % DEMAND LOAD (VA)		143,404			IC >= 18 kA at 400 VAC						

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LOAD SCHEDULE : 415/240 V. DISTRIBUTION BOARD												
NAME		: 1DP1			LOCATION		: ห้องไฟฟ้า ชั้นที่ 1					
CAPACITY (FDR.)		: 10			MAIN BAR		: 200A					
CONNECTED TO		: MDB1			NEUTRAL		: 100% ; GROUND : 25%					
FEEDER NO.	DESCRIPTION	CONNECTED LOAD (VA)			CIRCUIT BREAKER				CONDUCTOR		RACEWAY	
		R	Y	B	POLE	AT	AF	IC	SIZE (MM²)	TYPE		
F1	1LP1	19,420	17,900	17,960	3	125	200	SYMMETRICAL SHORT CIRCUIT CURRENT I _k ≥ 18 kA r.m.s	4-70/16G	IEC01	50×100mm. WIREWAY	
F2	1L1	1,500			2	30	100		2-6/4G	IEC01	∅20mm. EMT	
F3	1L2		1,500		2	30	100		2-6/4G	IEC01	∅20mm. EMT	
F4	1L3			1,500	2	30	100		2-6/4G	IEC01	∅20mm. EMT	
F5	1L4			1,500	2	30	100		2-6/4G	IEC01	∅20mm. EMT	
F6	SMCC-CW	13,200	13,200	13,200	3	100	100		4-70/10G	IEC01	∅65mm. IMC	
F7	SPARE				3	30	100					
F8	SPARE				3	30	100					
F9												
F10												
F11												
F12												
F13												
F14												
F15												
F16												
F17												
F18												
F19												
F20												
TOTAL		34,120	32,600	34,160	MAIN CB				MAIN FEEDER		RACEWAY	
CONNECTED LOAD (VA)		100,880			3P 200 AT / 200 AF				REFER TO SCHEMATIC			
80 % DEMAND LOAD (VA)		80,704			IC ≥ 18 kA at 400 V							

ACCESSORIES :

- | | | |
|---|---|--|
| <input checked="" type="checkbox"/> 1 @ (0-500 V) VOLTMETER | <input checked="" type="checkbox"/> 3 @ 200A / 5A CT. | <input checked="" type="checkbox"/> IP 31 |
| <input checked="" type="checkbox"/> VOLTMETER SELECTOR SWITCH | <input type="checkbox"/> AMMETER SELECTOR SWITCH | <input checked="" type="checkbox"/> WALL MOUNTED, FORM 1 |
| <input checked="" type="checkbox"/> 3 @ 5A FUSE | <input type="checkbox"/> KW METER | <input type="checkbox"/> FLOOR MOUNTED, FORM 2B |
| <input checked="" type="checkbox"/> PILOT LAMP R Y B | <input type="checkbox"/> KWH METER | <input type="checkbox"/> RECESSED MOUNTED, FORM 1 |
| <input checked="" type="checkbox"/> 3 @ (0 - 200 A) AMMETER | <input type="checkbox"/> GROUND FAULT RELAY | <input type="checkbox"/> DIGITAL METER |

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LOAD SCHEDULE : 415/240 V. DISTRIBUTION BOARD												
NAME		: 2DP1			LOCATION		: ห้องไฟฟ้า ชั้นที่ 2					
CAPACITY (FDR.)		: 8			MAIN BAR		: 300A					
CONNECTED TO		: MDB1			NEUTRAL		: 100% ; GROUND : 25%					
FEEDER NO.	DESCRIPTION	CONNECTED LOAD (VA)			CIRCUIT BREAKER				CONDUCTOR		RACEWAY	
		R	Y	B	POLE	AT	AF	IC	SIZE (MM ²)	TYPE		
F1	2LP1	19,560	19,150	21,960	3	125	200	SYMMETRICAL SHORT CIRCUIT CURRENT I _k ≥ 18 kA r.m.s	4-70/16G	IEC01	50×100mm. WIREWAY	
F2	2LP2	10,660	10,660	9,400	3	100	100		4-50/10G	IEC01	50×100mm. WIREWAY	
F3	2L1	2,000	1,300	300	3	30	100		4-10/4G	IEC01	∅25mm. EMT	
F4	SMCC-SWP	13,794	13,794	13,794	3	80	100		4-50/10G	IEC01	∅50mm. EMT	
F5	SPARE				3	30	100					
F6	SPARE				3	30	100					
F7												
F8												
F9												
F10												
F11												
F12												
F13												
F14												
F15												
F16												
F17												
F18												
F19												
F20												
TOTAL		46,014	44,904	45,454	MAIN CB				MAIN FEEDER		RACEWAY	
CONNECTED LOAD (VA)		136,372			3P 300 AT / 300 AF				REFER TO SCHEMATIC			
80 % DEMAND LOAD (VA)		109,098			IC ≥ 18 kA at 400 V							

ACCESSORIES :

- | | | |
|---|---|--|
| <input checked="" type="checkbox"/> 1 @ (0-500 V) VOLTMETER | <input checked="" type="checkbox"/> 3 @ 300A / 5A CT. | <input checked="" type="checkbox"/> IP 31 |
| <input checked="" type="checkbox"/> VOLTMETER SELECTOR SWITCH | <input type="checkbox"/> AMMETER SELECTOR SWITCH | <input checked="" type="checkbox"/> WALL MOUNTED, FORM 1 |
| <input checked="" type="checkbox"/> 3 @ 5A FUSE | <input type="checkbox"/> KW METER | <input type="checkbox"/> FLOOR MOUNTED, FORM 2B |
| <input checked="" type="checkbox"/> PILOT LAMP R Y B | <input type="checkbox"/> KWH METER | <input type="checkbox"/> RECESSED MOUNTED, FORM 1 |
| <input checked="" type="checkbox"/> 3 @ (0 - 300 A) AMMETER | <input type="checkbox"/> GROUND FAULT RELAY | <input type="checkbox"/> DIGITAL METER |

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LOAD SCHEDULE : 415/240 V. DISTRIBUTION BOARD												
NAME		: 3DP1			LOCATION		: ห้องไฟฟ้า ชั้นที่ 3					
CAPACITY (FDR.)		: 8			MAIN BAR		: 300A					
CONNECTED TO		: MDB1			NEUTRAL		: 100%			: GROUND : 25%		
FEEDER NO.	DESCRIPTION	CONNECTED LOAD (VA)			CIRCUIT BREAKER				CONDUCTOR		RACEWAY	
		R	Y	B	POLE	AT	AF	IC	SIZE (MM ²)	TYPE		
F1	3LP1	16,400	16,440	17,300	3	125	200	SYMMETRICAL SHORT CIRCUIT CURRENT I _k ≥ 18 kA r.m.s	4-70/16G	IEC01	50×100mm. WIREWAY	
F2	AMCC-3-01	11,880	11,880	11,880	3	100	100		4-70/10G	IEC01	∅65mm. IMC	
F3	AMCC-3-02	11,880	11,880	11,880	3	100	100		4-70/10G	IEC01	∅65mm. IMC	
F4	AMCC-3-03	1,100	1,100	1,100	3	16	100		4-4/2.5G	IEC01	∅20mm. EMT	
F5	SPARE				3	30	100					
F6	SPARE				3	30	100					
F7												
F8												
F9												
F10												
F11												
F12												
F13												
F14												
F15												
F16												
F17												
F18												
F19												
F20												
TOTAL		41,260	41,300	42,160	MAIN CB				MAIN FEEDER		RACEWAY	
CONNECTED LOAD (VA)		124,720			3P 300 AT / 300 AF				REFER TO SCHEMATIC			
80 % DEMAND LOAD (VA)		99,776			IC ≥ 18 kA at 400 V							

ACCESSORIES :

- | | | |
|---|---|--|
| <input checked="" type="checkbox"/> 1 @ (0-500 V) VOLTMETER | <input checked="" type="checkbox"/> 3 @ 300A / 5A CT. | <input checked="" type="checkbox"/> IP 31 |
| <input checked="" type="checkbox"/> VOLTMETER SELECTOR SWITCH | <input type="checkbox"/> AMMETER SELECTOR SWITCH | <input checked="" type="checkbox"/> WALL MOUNTED, FORM 1 |
| <input checked="" type="checkbox"/> 3 @ 5A FUSE | <input type="checkbox"/> KW METER | <input type="checkbox"/> FLOOR MOUNTED, FORM 2B |
| <input checked="" type="checkbox"/> PILOT LAMP R Y B | <input type="checkbox"/> KWH METER | <input type="checkbox"/> RECESSED MOUNTED, FORM 1 |
| <input checked="" type="checkbox"/> 3 @ (0 - 300 A) AMMETER | <input type="checkbox"/> GROUND FAULT RELAY | <input type="checkbox"/> DIGITAL METER |

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NAME : 4DP1		LOCATION : ห้องไฟฟ้า ชั้นที่ 4									
CAPACITY (FDR.) : 8		MAIN BAR : 200A									
CONNECTED TO : MDB1		NEUTRAL : 100% ; GROUND : 25%									
FEEDER NO.	DESCRIPTION	CONNECTED LOAD (VA)			CIRCUIT BREAKER				CONDUCTOR		RACEWAY
		R	Y	B	POLE	AT	AF	IC	SIZE (MM ²)	TYPE	
F1	4LP1	14,830	11,470	11,250	3	125	200	SYMMETRICAL SHORT CIRCUIT CURRENT I _{sk} >= 18 kA r.m.s	4-70/16G	IEC01	50x100mm. WIREWAY
F2	AMCC-4-01	7,392	7,392	7,392	3	60	100		4-25/6G	IEC01	ø40mm. EMT
F3	AMCC-4-02	7,392	7,392	7,392	3	60	100		4-25/6G	IEC01	ø40mm. EMT
F4	AMCC-4-03	1,540	1,540	1,540	3	20	100		4-6/2.5G	IEC01	ø20mm. EMT
F5	AMCC-4-04	572	572	572	3	15	100		4-4/2.5G	IEC01	ø20mm. EMT
F6	SPARE				3	30	100				
F7	SPARE				3	30	100				
F8											
F9											
F10											
F11											
F12											
F13											
F14											
F15											
F16											
F17											
F18											
F19											
F20											
TOTAL		31,726	28,366	28,146	MAIN CB				MAIN FEEDER		RACEWAY
CONNECTED LOAD (VA)		88,238			3P 200 AT / 200 AF				REFER TO SCHEMATIC		
100 % DEMAND LOAD (VA)		88,238			IC >= 18 kA at 400 V						

ACCESSORIES :

- | | | |
|---|---|--|
| <input checked="" type="checkbox"/> 1 @ (0-500 V) VOLTMETER | <input checked="" type="checkbox"/> 3 @ 200A / 5A CT. | <input checked="" type="checkbox"/> IP 31 |
| <input checked="" type="checkbox"/> VOLTMETER SELECTOR SWITCH | <input type="checkbox"/> AMMETER SELECTOR SWITCH | <input checked="" type="checkbox"/> WALL MOUNTED, FORM 1 |
| <input checked="" type="checkbox"/> 3 @ 5A FUSE | <input type="checkbox"/> KW METER | <input type="checkbox"/> FLOOR MOUNTED, FORM 2B |
| <input checked="" type="checkbox"/> PILOT LAMP R Y B | <input type="checkbox"/> KWH METER | <input type="checkbox"/> RECESSED MOUNTED, FORM 1 |
| <input checked="" type="checkbox"/> 3 @ (0 - 200 A) AMMETER | <input type="checkbox"/> GROUND FAULT RELAY | <input type="checkbox"/> DIGITAL METER |

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LOAD SCHEDULE : 415/240 V. DISTRIBUTION BOARD

NAME : MDP1		LOCATION : ห้องไฟฟ้า ชั้นลอย									
CAPACITY (FDR.) : 8		MAIN BAR : 600A									
CONNECTED TO : MDB2		NEUTRAL : 100% ; GROUND : 25%									
FEEDER NO.	DESCRIPTION	CONNECTED LOAD (VA)			CIRCUIT BREAKER				CONDUCTOR		RACEWAY
		R	Y	B	POLE	AT	AF	IC	SIZE (MM ²)	TYPE	
F1	MLP1	5,320	4,700	4,500	3	30	100	SYMMETRICAL SHORT CIRCUIT CURRENT I _{rk} >= 18 kA r.m.s	4-6/4G	IEC01	50x100mm. WIREWAY
F2	MAP1	68,640	68,640	68,640	3	400	400		4(4-150/25G)	IEC01	2xØ90mm. IMC
F3	AMCC-5-01	13,970	13,970	13,970	3	125	200		4-95/16G	IEC01	Ø65mm. IMC
F4	AMCC-5-02	13,970	13,970	13,970	3	125	200		4-95/16G	IEC01	Ø65mm. IMC
F5	AMCC-5-03	1,936	1,936	1,936	3	30	100		4-10/4G	IEC01	Ø25mm. EMT
F6	SPARE				3	30	100				
F7	SPARE				3	30	100				
F8											
F9											
F10											
F11											
F12											
F13											
F14											
F15											
F16											
F17											
F18											
F19											
F20											
TOTAL		103,836	103,216	103,016	MAIN CB				MAIN FEEDER		RACEWAY
CONNECTED LOAD (VA)		310,068			3P 600 AT / 600 AF				REFER TO SCHEMATIC		
80 % DEMAND LOAD (VA)		248,054			IC >= 18 kA at 400 V						

ACCESSORIES :

- | | | |
|---|---|--|
| <input checked="" type="checkbox"/> 1 @ (0-500 V) VOLTMETER | <input checked="" type="checkbox"/> 3 @ 600A / 5A CT. | <input checked="" type="checkbox"/> IP 31 |
| <input checked="" type="checkbox"/> VOLTMETER SELECTOR SWITCH | <input type="checkbox"/> AMMETER SELECTOR SWITCH | <input checked="" type="checkbox"/> WALL MOUNTED, FORM 1 |
| <input checked="" type="checkbox"/> 3 @ 5A FUSE | <input type="checkbox"/> KW METER | <input type="checkbox"/> FLOOR MOUNTED, FORM 2B |
| <input checked="" type="checkbox"/> PILOT LAMP R Y B | <input type="checkbox"/> KWH METER | <input type="checkbox"/> RECESSED MOUNTED, FORM 1 |
| <input checked="" type="checkbox"/> 3 @ (0 - 600 A) AMMETER | <input type="checkbox"/> GROUND FAULT RELAY | <input type="checkbox"/> DIGITAL METER |

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LOAD SCHEDULE : 415/240 V. DISTRIBUTION BOARD

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NAME : MAP1		LOCATION : ห้องป๋ม ชั้นลอย									
CAPACITY (FDR.) : 10		MAIN BAR : 400A									
CONNECTED TO : MDP1		NEUTRAL : 100% ; GROUND : 25%									
FEEDER NO.	DESCRIPTION	CONNECTED LOAD (VA)			CIRCUIT BREAKER				CONDUCTOR		RACEWAY
		R	Y	B	POLE	AT	AF	IC	SIZE (MM ²)	TYPE	
F1	CDV-01	11,440	11,440	11,440	3	80	100	SYMMETRICAL SHORT CIRCUIT CURRENT I _{pk} >= 18 kA r.m.s	4-50/10G	IEC01	ø50mm. IMC
F2	CDV-02	11,440	11,440	11,440	3	80	100		4-50/10G	IEC01	ø50mm. IMC
F3	CDV-03	11,440	11,440	11,440	3	80	100		4-50/10G	IEC01	ø50mm. IMC
F4	CDV-04	11,440	11,440	11,440	3	80	100		4-50/10G	IEC01	ø50mm. IMC
F5	CDV-05	11,440	11,440	11,440	3	80	100		4-50/10G	IEC01	ø50mm. IMC
F6	CDV-06	6,600	6,600	6,600	3	50	100		4-25/6G	IEC01	ø40mm. IMC
F7	CDV-07	4,840	4,840	4,840	3	30	100		4-10/4G	IEC01	ø25mm. IMC
F8	SPARE				3	50	100				
F9	SPARE				3	50	100				
F10											
F11											
F12											
F13											
F14											
F15											
F16											
F17											
F18											
F19											
F20											
TOTAL		68,640	68,640	68,640	MAIN CB				MAIN FEEDER		RACEWAY
CONNECTED LOAD (VA)		205,920			3P 400 AT / 400 AF				REFER TO DISTRIBUTION BOARD SCHEDULE		
80 % DEMAND LOAD (VA)		164,736			IC >= 18 kA at 400 V						

ACCESSORIES :

- | | | |
|---|---|--|
| <input checked="" type="checkbox"/> 1 @ (0-500 V) VOLTMETER | <input checked="" type="checkbox"/> 3 @ 400A / 5A CT. | <input checked="" type="checkbox"/> IP 31 |
| <input checked="" type="checkbox"/> VOLTMETER SELECTOR SWITCH | <input type="checkbox"/> AMMETER SELECTOR SWITCH | <input checked="" type="checkbox"/> WALL MOUNTED, FORM 1 |
| <input checked="" type="checkbox"/> 3 @ 5A FUSE | <input type="checkbox"/> KW METER | <input type="checkbox"/> FLOOR MOUNTED, FORM 2B |
| <input checked="" type="checkbox"/> PILOT LAMP R Y B | <input type="checkbox"/> KWH METER | <input type="checkbox"/> RECESSED MOUNTED, FORM 1 |
| <input checked="" type="checkbox"/> 3 @ (0 - 400 A) AMMETER | <input type="checkbox"/> GROUND FAULT RELAY | <input type="checkbox"/> DIGITAL METER |

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LOAD SCHEDULE : PANELBOARD												
NAME		GLP1			LOCATION		ห้องไฟฟ้า ชั้นล่าง					
CAPACITY (CCT.)		42			MAIN BAR		200A					
CONNECTED TO		MDB1										
CCT. NO.	DESCRIPTION	CONNECTED LOAD (VA)			CIRCUIT BREAKER				CONDUCTOR		RACE	
		R	Y	B	POLE	AT	AF	IC	SIZE (MM ²)	TYPE	WAY	
1	RECEPTACLE	400			1	16*	63		2-4/2.5G	LSF	Ø15 mm.EMT	
3	RECEPTACLE		1,000		1	16*	63		2-4/2.5G	LSF	Ø15 mm.EMT	
5	SPARE				1	16	63					
7	SPARE				1	16	63					
9	SPARE				1	16	63					
11	SPARE				1	16	63					
13	} SMCC-SP1+2	5,100										
15			5,100		3	50	63		4-16/6G	LSF	Ø32 mm.EMT	
17				5,100								
19	SPARE				1	16	63					
21	SPARE				1	16	63					
23	EMERGENCY LIGHT			1,500	1	16	63		2-4/2.5G	LSF	Ø15 mm.EMT	
25	EMERGENCY LIGHT	1,500			1	16	63		2-4/2.5G	IEC01	Ø15 mm.EMT	
27	EMERGENCY LIGHT		1,500		1	16	63		2-4/2.5G	IEC01	Ø15 mm.EMT	
29	EMERGENCY LIGHT			1,500	1	16	63		2-4/2.5G	IEC01	Ø15 mm.EMT	
31												
33												
35												
37												
39												
41												
2	LIGHTING	300			1	16*	63		2-4/2.5G	LSF	Ø15 mm.EMT	
4	LIGHTING		1,120		1	16*	63		2-4/2.5G	LSF	Ø15 mm.EMT	
6	LIGHTING			1,240	1	16*	63		2-4/2.5G	LSF	Ø15 mm.EMT	
8	LIGHTING	1,200			1	16*	63		2-4/2.5G	LSF	Ø15 mm.EMT	
10	LIGHTING		680		1	16*	63		2-4/2.5G	LSF	Ø15 mm.EMT	
12	LIGHTING			1,100	1	16*	63		2-4/2.5G	LSF	Ø15 mm.EMT	
14	LIGHTING	1,060			1	16*	63		2-4/2.5G	LSF	Ø15 mm.EMT	
16	SPARE				1	16	63					
18	SPARE				1	16	63					
20	SPARE				1	16	63					
22	SPARE				1	16	63					
24	SPARE				1	16	63					
26	} AMCC-G-01	8,250										
28				8,250	3	50	63		4-16/6G	LSF	Ø32 mm.EMT	
30					8,250							
32												
34												
36												
38												
40												
42												
TOTAL		17,810	17,650	18,690	MAIN CB				MAIN FEEDER		RACEWAY	
CONNECTED LOAD (VA)		54,150			3P 125 AT / 200AF				REFER TO SCHEMATIC			
80 % DEMAND LOAD (VA)		43,320			IC >= 18 kA at 400 V							

 SYMMETRICAL SHORT CIRCUIT CURRENT I_k >= 5 kA_{r.m.s.}

REMARKS : L : LIGHTING ; O : OUTLET ; J : JUNCTION BOX ; * : 30 mA ELCB

 PROJECT : UTK
 PROJECT NO. : PSE01

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LOAD SCHEDULE		PANELBOARD									
NAME		GELP1				LOCATION		ห้องไฟฟ้า ชั้นล่าง			
CAPACITY (CCT.)		30				MAIN BAR		100A			
CONNECTED TO		EMDB									
CCT. NO.	DESCRIPTION	CONNECTED LOAD (VA)			CIRCUIT BREAKER				CONDUCTOR		RACE WAY
		R	Y	B	POLE	AT	AF	IC	SIZE (MM ²)	TYPE	
1	RECEPTACLE	400			1	16*	63		2-4/2.5G	LSF	Ø15 mm.EMT
3	SPARE				1	16	63				
5	SPARE				1	16	63				
7	ESMCC-DP1+2	3,000									
9			3,000		3	30	63		4-6/4G	LSF	Ø20 mm.EMT
11				3,000							
13	ESMCC-DP3+4	3,000									
15			3,000		3	30	63		4-6/4G	LSF	Ø20 mm.EMT
17				3,000							
19	SPARE				1	16	63				
21	SPARE				1	16	63				
23	EXIT SIGN			1,500	1	16	63		2-4/2.5G	LSF	Ø15 mm.EMT
25	SPARE				1	16	63				
27	SPARE				1	16	63				
29	SPARE				1	16	63				
31											
33											
35											
37											
39											
41											
2	LIGHTING	1,750			1	16*	63		2-4/2.5G	LSF	Ø15 mm.EMT
4	LIGHTING		960		1	16*	63		2-4/2.5G	LSF	Ø15 mm.EMT
6	LIGHTING			1,200	1	16*	63		2-4/2.5G	LSF	Ø15 mm.EMT
8	LIGHTING (STAIR)	1,160			1	16	63		2-4/2.5G	LSF	Ø15 mm.EMT
10	LIGHTING (STAIR)		1,080		1	16	63		2-4/2.5G	LSF	Ø15 mm.EMT
12	LIGHTING (STAIR)			300	1	16	63		2-4/2.5G	LSF	Ø15 mm.EMT
14	SPARE				1	16	63				
16	SPARE				1	16	63				
18	SPARE				1	16	63				
20											
22											
24											
26											
28											
30											
32											
34											
36											
38											
40											
42											
TOTAL		9,310	8,040	9,000	MAIN CB				MAIN FEEDER	RACEWAY	
CONNECTED LOAD (VA)		26,350			3P 60 AT / 100AF				REFER TO SCHEMATIC		
80 % DEMAND LOAD (VA)		21,080			IC >= 18 kA at 400 V						

 SYMMETRICAL SHORT CIRCUIT CURRENT I_k >= 5 kA_{r.m.s.}

REMARKS : L : LIGHTING ; O : OUTLET ; J : JUNCTION BOX ; * : 30 mA ELCB
 PROJECT : UTK INITIAL : TV DATE : 2/9/2013
 PROJECT NO. : PSE01 REVISION : A PAGE NO. :

LOAD SCHEDULE		PANELBOARD									
NAME		: 1LP1				LOCATION		: ห้องไฟฟ้า ชั้น 1			
CAPACITY (CCT.)		: 42				MAIN BAR		: 200A			
CONNECTED TO		: 1DP1									
CCT. NO.	DESCRIPTION	CONNECTED LOAD (VA)			CIRCUIT BREAKER				CONDUCTOR		RACE WAY
		R	Y	B	POLE	AT	AF	IC	SIZE (MM ²)	TYPE	
1	RECEPTACLE	1,400			1	16*	63		2-4/2.5G	IEC01	Ø15 mm.EMT
3	RECEPTACLE		1,400		1	16*	63		2-4/2.5G	IEC01	Ø15 mm.EMT
5	RECEPTACLE			800	1	16*	63		2-4/2.5G	IEC01	Ø15 mm.EMT
7	RECEPTACLE	1,600			1	16*	63		2-4/2.5G	IEC01	Ø15 mm.EMT
9	SPARE				1	16	63				
11	SPARE				1	16	63				
13	SPARE				1	16	63				
15	SPARE				1	16	63				
17	SPARE				1	16	63				
19	SPARE				1	16	63				
21	SPARE				1	16	63				
23	EMERGENCY LIGHT			1,500	1	16	63		2-4/2.5G	IEC01	Ø15 mm.EMT
25	WATER HEATER	3,500			1	20*	63		2-4/2.5G	IEC01	Ø15 mm.EMT
27	WATER HEATER		3,500		1	20*	63		2-4/2.5G	IEC01	Ø15 mm.EMT
29	WATER HEATER			3,500	1	20*	63		2-4/2.5G	IEC01	Ø15 mm.EMT
31	WATER HEATER	3,500			1	20*	63		2-4/2.5G	IEC01	Ø15 mm.EMT
33	LIGHTING		900		1	16*	63		2-4/2.5G	IEC01	Ø15 mm.EMT
35	LIGHTING			900	1	16*	63		2-4/2.5G	IEC01	Ø15 mm.EMT
37	SPARE				1	16	63				
39	SPARE				1	16	63				
41	SPARE				1	16	63				
2	LIGHTING	300			1	16*	63		2-4/2.5G	IEC01	Ø15 mm.EMT
4	LIGHTING		1,240		1	16*	63		2-4/2.5G	IEC01	Ø15 mm.EMT
6	LIGHTING			1,000	1	16*	63		2-4/2.5G	IEC01	Ø15 mm.EMT
8	LIGHTING	1,320			1	16*	63		2-4/2.5G	IEC01	Ø15 mm.EMT
10	LIGHTING		1,560		1	16*	63		2-4/2.5G	IEC01	Ø15 mm.EMT
12	LIGHTING			600	1	16*	63		2-4/2.5G	IEC01	Ø15 mm.EMT
14	LIGHTING	900			1	16*	63		2-4/2.5G	IEC01	Ø15 mm.EMT
16	LIGHTING		1,100		1	16*	63		2-4/2.5G	IEC01	Ø15 mm.EMT
18	LIGHTING			1,060	1	16*	63		2-4/2.5G	IEC01	Ø15 mm.EMT
20		6,000									
22	} ACMCC-1-01		6,000		3	50	63		4-25/6G	IEC01	Ø40 mm.EMT
24				6,000							
26	LANDSCAPE LIGHT	900			1	16*	63		2-4/2.5G	NY Y	Ø32 mm.HDPE
28	STREET LIGHT		1,200		1	16*	63		2-6/4G	NY Y	Ø32 mm.HDPE
30	STREET LIGHT			600	1	16*	63		2-6/4G	NY Y	Ø32 mm.HDPE
32	SPARE				1	16	63				
34	SOUND RACK		1,000		1	16	63		2-4/2.5G	IEC01	Ø15 mm.EMT
36	SIGNAGE			2,000	1	16*	63		2-4/2.5G	IEC01	Ø15 mm.EMT
38											
40											
42											
TOTAL		19,420	17,900	17,960	MAIN LUG				MAIN FEEDER		RACEWAY
CONNECTED LOAD (VA)		55,280			NONE				SEE DISTRIBUTION BOARD SCHEDULE		
80 % DEMAND LOAD (VA)		44,224									

 SYMMETRICAL SHORT CIRCUIT CURRENT I_k >= 5 kA_{r.m.s.}

REMARKS : L : LIGHTING ; O : OUTLET ; J : JUNCTION BOX ; * : 30 mA ELCB

 PROJECT : UTK
 PROJECT NO. : PSE01

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LOAD SCHEDULE		PANELBOARD									
NAME		1ELP1				LOCATION		ห้องไฟฟ้า ชั้น 1			
CAPACITY (CCT.)		36				MAIN BAR		100A			
CONNECTED TO		EMDB									
CCT. NO.	DESCRIPTION	CONNECTED LOAD (VA)			CIRCUIT BREAKER				CONDUCTOR		RACE WAY
		R	Y	B	POLE	AT	AF	IC	SIZE (MM ²)	TYPE	
1	RECEPTACLE	1,400			1	16*	63		2-4/2.5G	IEC01	Ø15 mm.EMT
3	RECEPTACLE		1,200		1	16*	63		2-4/2.5G	IEC01	Ø15 mm.EMT
5	RECEPTACLE			1,400	1	16*	63		2-4/2.5G	IEC01	Ø15 mm.EMT
7	RECEPTACLE	1,200			1	16*	63		2-4/2.5G	IEC01	Ø15 mm.EMT
9	RECEPTACLE		1,800		1	16*	63		2-4/2.5G	IEC01	Ø15 mm.EMT
11	SPARE				1	16	63				
13		1,900									
15	EJP-CTR		1,900		3	20	100		4-6/2.5G	IEC01	Ø20 mm.EMT
17				1,900							
19	SPARE				1	16	63				
21	OUTDOOR FAN		200		1	16	63		2-4/2.5G	IEC01	Ø15 mm.EMT
23	EXIT SIGN			1,500	1	16	63		2-4/2.5G	IEC01	Ø15 mm.EMT
25		3,900									
27	ESMCC-WWTP		3,900		3	30	63		4-10/4G	IEC01	Ø25 mm.EMT
29				3,900							
31	FIRE ALARM SYSTEM	1,000			1	16	63		2-4/2.5G	IEC01	Ø15 mm.EMT
33	LIGHTING		1,000		1	16	63		2-4/2.5G	IEC01	Ø15 mm.EMT
35	SPARE				1	16	63				
37											
39											
41											
2	LIGHTING	1,700			1	16*	63		2-4/2.5G	IEC01	Ø15 mm.EMT
4	LIGHTING		1,140		1	16*	63		2-4/2.5G	IEC01	Ø15 mm.EMT
6	LIGHTING			1,800	1	16*	63		2-4/2.5G	IEC01	Ø15 mm.EMT
8	LIGHTING	1,320			1	16*	63		2-4/2.5G	IEC01	Ø15 mm.EMT
10	LIGHTING		760		1	16*	63		2-4/2.5G	IEC01	Ø15 mm.EMT
12	LIGHTING			720	1	16*	63		2-4/2.5G	IEC01	Ø15 mm.EMT
14	LIGHTING	625			1	16*	63		2-4/2.5G	IEC01	Ø15 mm.EMT
16	LIGHTING		160		1	16*	63		2-4/2.5G	IEC01	Ø15 mm.EMT
18	LIGHTING			520	1	16*	63		2-4/2.5G	IEC01	Ø15 mm.EMT
20	STREET LIGHTING	1,200			1	16*	63		2-6/4G	NY Y	Ø32 mm.HDPE
22	SPARE				1	16	63				
24	SPARE				1	16	63				
26	SPARE				1	16	63				
28	SPARE				1	16	63				
30	SPARE				1	16	63				
32	SPARE				1	16	63				
34	AIR COMP		1,000		1	16	63		2-4/2.5G	IEC01	Ø15 mm.EMT
36	AIR COMP			1,000	1	16	63		2-4/2.5G	IEC01	Ø15 mm.EMT
38											
40											
42											
TOTAL		14,245	13,060	12,740	MAIN CB				MAIN FEEDER		RACEWAY
CONNECTED LOAD (VA)		40,045			3P 100 AT / 100AF				REFER TO SCHEMATIC		
80 % DEMAND LOAD (VA)		32,036			IC >= 18 kA at 400 V						

 SYMMETRICAL SHORT CIRCUIT CURRENT I_k >= 5 kA_{r.m.s.}

REMARKS : L : LIGHTING ; O : OUTLET ; J : JUNCTION BOX ; * : 30 mA ELCB
 PROJECT : UTK INITIAL : TV DATE : 2/9/2013
 PROJECT NO. : PSE01 REVISION : A PAGE NO. :

LOAD SCHEDULE		PANELBOARD									
NAME		: 2LP1				LOCATION		: ห้องไฟฟ้า ชั้น 2			
CAPACITY (CCT.)		: 42				MAIN BAR		: 200A			
CONNECTED TO		: 2DB1									
CCT. NO.	DESCRIPTION	CONNECTED LOAD (VA)			CIRCUIT BREAKER				CONDUCTOR		RACE WAY
		R	Y	B	POLE	AT	AF	IC	SIZE (MM ²)	TYPE	
1	RECEPTACLE	1,600			1	16*	63		2-4/2.5G	IEC01	Ø15 mm.EMT
3	RECEPTACLE		1,000		1	16*	63		2-4/2.5G	IEC01	Ø15 mm.EMT
5	RECEPTACLE			2,000	1	16*	63		2-4/2.5G	IEC01	Ø15 mm.EMT
7	RECEPTACLE	1,200			1	16*	63		2-4/2.5G	IEC01	Ø15 mm.EMT
9	RECEPTACLE		1,200		1	16*	63		2-4/2.5G	IEC01	Ø15 mm.EMT
11	RECEPTACLE			1,200	1	16*	63		2-4/2.5G	IEC01	Ø15 mm.EMT
13	SPARE				1	16	63				
15	SPARE				1	16	63				
17	SPARE				1	16	63				
19	WATER HEATER	3,500			1	20*	63		2-4/2.5G	IEC01	Ø15 mm.EMT
21	WATER HEATER		3,500		1	20*	63		2-4/2.5G	IEC01	Ø15 mm.EMT
23	WATER HEATER			3,500	1	20*	63		2-4/2.5G	IEC01	Ø15 mm.EMT
25	WATER HEATER	3,500			1	20*	63		2-4/2.5G	IEC01	Ø15 mm.EMT
27	WATER HEATER		3,500		1	20*	63		2-4/2.5G	IEC01	Ø15 mm.EMT
29	WATER HEATER			3,500	1	20*	63		2-4/2.5G	IEC01	Ø15 mm.EMT
31	EMERGENCY LIGHT	1,000			1	16	63		2-4/2.5G	IEC01	Ø15 mm.EMT
33	EMERGENCY LIGHT		1,500		1	16	63		2-4/2.5G	IEC01	Ø15 mm.EMT
35	WATER HEATER			3,500	1	20*	63		2-4/2.5G	IEC01	Ø15 mm.EMT
37		600									
39	EXHAUST FAN		600		3	16	63		4-4/2.5G	IEC01	Ø20 mm.EMT
41				600							
2	LIGHTING	1,300			1	16	63		2-4/2.5G	IEC01	Ø15 mm.EMT
4	LIGHTING		480		1	16	63		2-4/2.5G	IEC01	Ø15 mm.EMT
6	LIGHTING			480	1	16	63		2-4/2.5G	IEC01	Ø15 mm.EMT
8	LIGHTING	1,240			1	16	63		2-4/2.5G	IEC01	Ø15 mm.EMT
10	LIGHTING		1,380		1	16	63		2-4/2.5G	IEC01	Ø15 mm.EMT
12	LIGHTING			680	1	16	63		2-4/2.5G	IEC01	Ø15 mm.EMT
14	LIGHTING	520			1	16	63		2-4/2.5G	IEC01	Ø15 mm.EMT
16	LIGHTING		690		1	16*	63		2-4/2.5G	IEC01	Ø15 mm.EMT
18	LIGHTING			520	1	16*	63		2-4/2.5G	IEC01	Ø15 mm.EMT
20	LIGHTING	500			1	16	63		2-4/2.5G	IEC01	Ø15 mm.EMT
22	LIGHTING		1,200		1	16	63		2-4/2.5G	IEC01	Ø15 mm.EMT
24	LIGHTING			1,880	1	16	63		2-4/2.5G	IEC01	Ø15 mm.EMT
26	WATER HEATER	3,500			1	20*	63		2-4/2.5G	IEC01	Ø15 mm.EMT
28	WATER HEATER		3,500		1	20*	63		2-4/2.5G	IEC01	Ø15 mm.EMT
30	WATER HEATER			3,500	1	20*	63		2-4/2.5G	IEC01	Ø15 mm.EMT
32		600									
34	EXHAUST FAN		600		3	16	63		4-4/2.5G	IEC01	Ø20 mm.EMT
36				600							
38	OUTDOOR FAN	500			1	16	63		2-4/2.5G	IEC01	Ø15 mm.EMT
40	SPARE				1	16	63				
42	SPARE				1	16	63				
TOTAL		19,560	19,150	21,960	MAIN LUG				MAIN FEEDER		RACEWAY
CONNECTED LOAD (VA)		60,670			NONE				SEE DISTRIBUTION BOARD SCHEDULE		
80 % DEMAND LOAD (VA)		48,536									

 SYMMETRICAL SHORT CIRCUIT CURRENT I_k ≥ 5 kA_{r.m.s.}

REMARKS : L : LIGHTING ; O : OUTLET ; J : JUNCTION BOX ; * : 30 mA ELCB
 PROJECT : UTK INITIAL : TV DATE : 2/9/2013
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LOAD SCHEDULE		PANELBOARD									
NAME		: 2LP2				LOCATION		: ห้องไฟฟ้า ชั้น 2			
CAPACITY (CCT.)		: 42				MAIN BAR		: 100A			
CONNECTED TO		: 2DB1									
CCT. NO.	DESCRIPTION	CONNECTED LOAD (VA)			CIRCUIT BREAKER				CONDUCTOR		RACE WAY
		R	Y	B	POLE	AT	AF	IC	SIZE (MM ²)	TYPE	
1	RECEPTACLE	1,000			1	16*	63		2-4/2.5G	IEC01	Ø15 mm.EMT
3	RECEPTACLE		1,200		1	16*	63		2-4/2.5G	IEC01	Ø15 mm.EMT
5	RECEPTACLE			1,200	1	16*	63		2-4/2.5G	IEC01	Ø15 mm.EMT
7	RECEPTACLE	1,600			1	16*	63		2-4/2.5G	IEC01	Ø15 mm.EMT
9	RECEPTACLE		1,600		1	16*	63		2-4/2.5G	IEC01	Ø15 mm.EMT
11	RECEPTACLE			800	1	16*	63		2-4/2.5G	IEC01	Ø15 mm.EMT
13	RECEPTACLE	1,600			1	16*	63		2-4/2.5G	IEC01	Ø15 mm.EMT
15	RECEPTACLE		1,600		1	16*	63		2-4/2.5G	IEC01	Ø15 mm.EMT
17	RECEPTACLE			1,200	1	16*	63		2-4/2.5G	IEC01	Ø15 mm.EMT
19	RECEPTACLE	1,400			1	16*	63		2-4/2.5G	IEC01	Ø15 mm.EMT
21	RECEPTACLE		1,600		1	16*	63		2-4/2.5G	IEC01	Ø15 mm.EMT
23	RECEPTACLE			800	1	16*	63		2-4/2.5G	IEC01	Ø15 mm.EMT
25	RECEPTACLE	1,800			1	16*	63		2-4/2.5G	IEC01	Ø15 mm.EMT
27	RECEPTACLE		1,200		1	16*	63		2-4/2.5G	IEC01	Ø15 mm.EMT
29	RECEPTACLE			1,200	1	16*	63		2-4/2.5G	IEC01	Ø15 mm.EMT
31	SPARE				1	16	63				
33	SPARE				1	16	63				
35	SPARE				1	16	63				
37											
39											
41											
2	LIGHTING	1,120			1	16	63		2-4/2.5G	IEC01	Ø15 mm.EMT
4	LIGHTING		1,280		1	16	63		2-4/2.5G	IEC01	Ø15 mm.EMT
6	LIGHTING			1,120	1	16	63		2-4/2.5G	IEC01	Ø15 mm.EMT
8	LIGHTING	1,200			1	16	63		2-4/2.5G	IEC01	Ø15 mm.EMT
10	LIGHTING		1,280		1	16	63		2-4/2.5G	IEC01	Ø15 mm.EMT
12	LIGHTING			1,280	1	16	63		2-4/2.5G	IEC01	Ø15 mm.EMT
14	LIGHTING	640			1	16	63		2-4/2.5G	IEC01	Ø15 mm.EMT
16	SPARE				1	16	63				
18	SPARE				1	16	63				
20		300									
22	OUTDOOR FAN		300		3	16	63		4-4/2.5G	IEC01	Ø20 mm.EMT
24				300							
26	SPARE				1	16	63				
28	OUTDOOR FAN		600		1	16	63		2-4/2.5G	IEC01	Ø15 mm.EMT
30	OUTDOOR FAN			1,500	1	16	63		2-4/2.5G	IEC01	Ø15 mm.EMT
32	SPARE										
34	SPARE										
36	SPARE										
38											
40											
42											
TOTAL		10,660	10,660	9,400	MAIN LUG				MAIN FEEDER		RACEWAY
CONNECTED LOAD (VA)		30,720			NONE				SEE DISTRIBUTION BOARD SCHEDULE		
80 % DEMAND LOAD (VA)		24,576									

 SYMMETRICAL SHORT CIRCUIT CURRENT I_k ≥ 5 kA_{r.m.s.}

REMARKS : L : LIGHTING ; O : OUTLET ; J : JUNCTION BOX ; * : 30 mA ELCB

PROJECT : UTK

INITIAL : TV

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LOAD SCHEDULE		PANELBOARD									
NAME		: 2ELP1				LOCATION		: ห้องไฟฟ้า ชั้น 2			
CAPACITY (CCT.)		: 30				MAIN BAR		: 100A			
CONNECTED TO		: EMDB									
CCT. NO.	DESCRIPTION	CONNECTED LOAD (VA)			CIRCUIT BREAKER				CONDUCTOR		RACE WAY
		R	Y	B	POLE	AT	AF	IC	SIZE (MM ²)	TYPE	
1	RECEPTACLE	1,400			1	16*	63		2-4/2.5G	IEC01	Ø15 mm.EMT
3	AIR COMP		1,000		1	16	63		2-4/2.5G	IEC01	Ø15 mm.EMT
5	SPARE				1	16	63				
7	SPARE				1	16	63				
9	EXIT SIGN		1,000		1	16	63		2-4/2.5G	IEC01	Ø15 mm.EMT
11	SPARE				1	16	63				
13											
15											
17											
19											
21											
23											
25											
27											
29											
31											
33											
35											
37											
39											
41											
2	LIGHTING	1,160			1	16	63		2-4/2.5G	IEC01	Ø15 mm.EMT
4	LIGHTING		1,100		1	16	63		2-4/2.5G	IEC01	Ø15 mm.EMT
6	LIGHTING			1,860	1	16	63		2-4/2.5G	IEC01	Ø15 mm.EMT
8	LIGHTING	1,200			1	16	63		2-4/2.5G	IEC01	Ø15 mm.EMT
10	LIGHTING		1,120		1	16	63		2-4/2.5G	IEC01	Ø15 mm.EMT
12	LIGHTING			960	1	16	63		2-4/2.5G	IEC01	Ø15 mm.EMT
14	LIGHTING	720			1	16*	63		2-4/2.5G	IEC01	Ø15 mm.EMT
16	LIGHTING		500		1	16*	63		2-4/2.5G	IEC01	Ø15 mm.EMT
18	LIGHTING			2,000	1	16	63		2-4/2.5G	IEC01	Ø15 mm.EMT
20											
22											
24											
26											
28											
30											
32											
34											
36											
38											
40											
42											
TOTAL		4,480	4,720	4,820	MAIN CB				MAIN FEEDER		RACEWAY
CONNECTED LOAD (VA)		14,020			3P 30 AT / 100AF				REFER TO SCHEMATIC		
80 % DEMAND LOAD (VA)		11,216			IC >= 18 kA at 400 V						

 SYMMETRICAL SHORT CIRCUIT CURRENT I_k >= 5 kA_{r.m.s.}

REMARKS : L : LIGHTING ; O : OUTLET ; J : JUNCTION BOX ; * : 30 mA ELCB
 PROJECT : UTK INITIAL : TV DATE : 2/9/2013
 PROJECT NO. : PSE01 REVISION : A PAGE NO. :

LOAD SCHEDULE		PANELBOARD									
NAME		3LP1				LOCATION		ห้องไฟฟ้า ชั้น 3			
CAPACITY (CCT.)		42				MAIN BAR		200A			
CONNECTED TO		3DP1									
CCT. NO.	DESCRIPTION	CONNECTED LOAD (VA)			CIRCUIT BREAKER				CONDUCTOR		RACE WAY
		R	Y	B	POLE	AT	AF	IC	SIZE (MM ²)	TYPE	
1	RECEPTACLE	1,400			1	16*	63		2-4/2.5G	IEC01	Ø15 mm.EMT
3	RECEPTACLE		1,000		1	16*	63		2-4/2.5G	IEC01	Ø15 mm.EMT
5	RECEPTACLE			1,600	1	16*	63		2-4/2.5G	IEC01	Ø15 mm.EMT
7	RECEPTACLE	1,400			1	16*	63		2-4/2.5G	IEC01	Ø15 mm.EMT
9	RECEPTACLE		1,000		1	16*	63		2-4/2.5G	IEC01	Ø15 mm.EMT
11	FAN COIL UNIT			500	1	16	63		2-4/2.5G	IEC01	Ø15 mm.EMT
13	SPARE				1	16	63				
15	SPARE				1	16	63				
17	EMERGENCY LIGHT			1,500	1	16	63		2-4/2.5G	IEC01	Ø15 mm.EMT
19	OUTDOOR FAN	700			1	16	63		2-4/2.5G	IEC01	Ø15 mm.EMT
21	LIGHTING		320		1	16	63		2-4/2.5G	IEC01	Ø15 mm.EMT
23	LIGHTING			600	1	16	63		2-4/2.5G	IEC01	Ø15 mm.EMT
25	LIGHTING	5,000			1	50*	63		2-16/6G	IEC01	Ø25 mm.EMT
27	LIGHTING		5,000		1	50*	63		2-16/6G	IEC01	Ø25 mm.EMT
29	LIGHTING			5,000	1	50*	63		2-16/6G	IEC01	Ø25 mm.EMT
31	EXHAUST FAN	600									
33				600	3	16	63		4-4/2.5G	IEC01	Ø20 mm.EMT
35				600							
37	SPARE				1	16	63				
39	SPARE				1	16	63				
41	SPARE				1	16	63				
2	LIGHTING	700			1	16	63		2-4/2.5G	IEC01	Ø15 mm.EMT
4	LIGHTING		1,020		1	16	63		2-4/2.5G	IEC01	Ø15 mm.EMT
6	LIGHTING			1,800	1	16	63		2-4/2.5G	IEC01	Ø15 mm.EMT
8	LIGHTING	1,800			1	16	63		2-4/2.5G	IEC01	Ø15 mm.EMT
10	LIGHTING		1,800		1	16	63		2-4/2.5G	IEC01	Ø15 mm.EMT
12	LIGHTING			900	1	16	63		2-4/2.5G	IEC01	Ø15 mm.EMT
14	LIGHTING	1,800			1	16	63		2-4/2.5G	IEC01	Ø15 mm.EMT
16	LIGHTING		1,800		1	16	63		2-4/2.5G	IEC01	Ø15 mm.EMT
18	LIGHTING			1,800	1	16	63		2-4/2.5G	IEC01	Ø15 mm.EMT
20	LIGHTING	900			1	16	63		2-4/2.5G	IEC01	Ø15 mm.EMT
22	LIGHTING		1,800		1	16	63		2-4/2.5G	IEC01	Ø15 mm.EMT
24	LIGHTING			1,800	1	16	63		2-4/2.5G	IEC01	Ø15 mm.EMT
26	LIGHTING	1,800			1	16	63		2-4/2.5G	IEC01	Ø15 mm.EMT
28	LIGHTING		900		1	16*	63		2-4/2.5G	IEC01	Ø15 mm.EMT
30	LIGHTING			100	1	16*	63		2-4/2.5G	IEC01	Ø15 mm.EMT
32	LIGHTING	300			1	16	63		2-4/2.5G	IEC01	Ø15 mm.EMT
34	LIGHTING		1,200		1	16	63		2-4/2.5G	IEC01	Ø15 mm.EMT
36	LIGHTING			1,100	1	16	63		2-4/2.5G	IEC01	Ø15 mm.EMT
38	SPARE				1	16	63				
40	SPARE				1	16	63				
42	SPARE				1	16	63				
TOTAL		16,400	16,440	17,300	MAIN LUG				MAIN FEEDER		RACEWAY
CONNECTED LOAD (VA)		50,140			NONE				SEE DISTRIBUTION BOARD SCHEDULE		
80 % DEMAND LOAD (VA)		40,112									

 SYMMETRICAL SHORT CIRCUIT CURRENT I_k ≥ 5 kA_{r.m.s.}

REMARKS : L : LIGHTING ; O : OUTLET ; J : JUNCTION BOX ; * : 30 mA ELCB

PROJECT : UTK

INITIAL : TV

DATE : 2/9/2013

PROJECT NO. : PSE01

REVISION : A

PAGE NO. :

LOAD SCHEDULE : PANELBOARD											
NAME		3ELP1			LOCATION		ห้องไฟฟ้า ชั้น 3				
CAPACITY (CCT.)		30			MAIN BAR		100A				
CONNECTED TO		EMDB									
CCT. NO.	DESCRIPTION	CONNECTED LOAD (VA)			CIRCUIT BREAKER				CONDUCTOR		RACE WAY
		R	Y	B	POLE	AT	AF	IC	SIZE (MM ²)	TYPE	
1	RECEPTACLE	200			1	16*	63		2-4/2.5G	IEC01	Ø15 mm.EMT
3	RECEPTACLE		1,000		1	16*	63		2-4/2.5G	IEC01	Ø15 mm.EMT
5	RECEPTACLE			600	1	16*	63		2-4/2.5G	IEC01	Ø15 mm.EMT
7	SPARE				1	16	63				
9	SPARE				1	16	63				
11	EXIT SIGN			1,500	1	16	63		2-4/2.5G	IEC01	Ø15 mm.EMT
13	SPARE				1	16	63				
15	LIGHTING		5,000		1	50*	63		2-16/6G	IEC01	Ø25 mm.EMT
17	LIGHTING			5,000	1	50*	63		2-16/6G	IEC01	Ø25 mm.EMT
19	SPARE				1	16	63				
21	SPARE				1	16	63				
23	SPARE				1	16	63				
25											
27											
29											
31											
33											
35											
37											
39											
41											
2	LIGHTING	1,340			1	16	63		2-4/2.5G	IEC01	Ø15 mm.EMT
4	LIGHTING		1,280		1	16	63		2-4/2.5G	IEC01	Ø15 mm.EMT
6	LIGHTING			960	1	16	63		2-4/2.5G	IEC01	Ø15 mm.EMT
8	LIGHTING	2,100			1	16	63		2-4/2.5G	IEC01	Ø15 mm.EMT
10	LIGHTING		2,100		1	16	63		2-4/2.5G	IEC01	Ø15 mm.EMT
12	LIGHTING			2,100	1	16	63		2-4/2.5G	IEC01	Ø15 mm.EMT
14	LIGHTING	2,100			1	16	63		2-4/2.5G	IEC01	Ø15 mm.EMT
16	LIGHTING		50		1	16*	63		2-4/2.5G	IEC01	Ø15 mm.EMT
18	LIGHTING			100	1	16*	63		2-4/2.5G	IEC01	Ø15 mm.EMT
20	LIGHTING	200			1	16	63		2-4/2.5G	IEC01	Ø15 mm.EMT
22	LIGHTING		1,720		1	16	63		2-4/2.5G	IEC01	Ø15 mm.EMT
24	SPARE				1	16	63				
26	SPARE				1	16	63				
28	SPARE				1	16	63				
30	SPARE				1	16	63				
32											
34											
36											
38											
40											
42											
TOTAL		5,940	11,150	10,260	MAIN CB				MAIN FEEDER		RACEWAY
CONNECTED LOAD (VA)		27,350			3P 60 AT / 100AF				SEE DISTRIBUTION BOARD SCHEDULE		
80 % DEMAND LOAD (VA)		21,880			IC >= 18 kA at 400 V						

 SYMMETRICAL SHORT CIRCUIT CURRENT I_k >= 5 kA_{r.m.s.}

REMARKS : L : LIGHTING ; O : OUTLET ; J : JUNCTION BOX ; * : 30 mA ELCB
 PROJECT : UTK INITIAL : TV DATE : 2/9/2013
 PROJECT NO. : PSE01 REVISION : A PAGE NO. :

LOAD SCHEDULE		PANELBOARD									
NAME		4LP1				LOCATION		ห้องไฟฟ้า ชั้น 4			
CAPACITY (CCT.)		42				MAIN BAR		200A			
CONNECTED TO		4DB1									
CCT. NO.	DESCRIPTION	CONNECTED LOAD (VA)			CIRCUIT BREAKER				CONDUCTOR		RACE WAY
		R	Y	B	POLE	AT	AF	IC	SIZE (MM ²)	TYPE	
1	RECEPTACLE	1,800			1	16*	63		2-4/2.5G	IEC01	Ø15 mm.EMT
3	RECEPTACLE		1,000		1	16*	63		2-4/2.5G	IEC01	Ø15 mm.EMT
5	RECEPTACLE			1,000	1	16*	63		2-4/2.5G	IEC01	Ø15 mm.EMT
7	RECEPTACLE	1,400			1	16*	63		2-4/2.5G	IEC01	Ø15 mm.EMT
9	RECEPTACLE		1,600		1	16*	63		2-4/2.5G	IEC01	Ø15 mm.EMT
11	SPARE				1	16	63				
13	SPARE				1	16	63				
15	SPARE				1	16	63				
17	SPARE				1	16	63				
19		550									
21	EXHAUST FAN		550		3	15	63		4-4/2.5G	IEC01	Ø20 mm.EMT
23					550						
25		550									
27	EXHAUST FAN		550		3	15	63		4-4/2.5G	IEC01	Ø20 mm.EMT
29					550						
31	EMERGENCY LIGHT	1,500			1	16	63		2-4/2.5G	IEC01	Ø15 mm.EMT
33	OUTDOOR FAN		200		1	16	63		2-4/2.5G	IEC01	Ø15 mm.EMT
35	OUTDOOR FAN			900	1	16	63		2-4/2.5G	IEC01	Ø15 mm.EMT
37											
39											
41											
2	LIGHTING	1,100			1	16	63		2-4/2.5G	IEC01	Ø15 mm.EMT
4	LIGHTING		320		1	16	63		2-4/2.5G	IEC01	Ø15 mm.EMT
6	LIGHTING			480	1	16	63		2-4/2.5G	IEC01	Ø15 mm.EMT
8	LIGHTING	480			1	16	63		2-4/2.5G	IEC01	Ø15 mm.EMT
10	LIGHTING		960		1	16	63		2-4/2.5G	IEC01	Ø15 mm.EMT
12	LIGHTING			2,650	1	16	63		2-4/2.5G	IEC01	Ø15 mm.EMT
14	LIGHTING	2,650			1	16	63		2-4/2.5G	IEC01	Ø15 mm.EMT
16	LIGHTING		1,650		1	16	63		2-4/2.5G	IEC01	Ø15 mm.EMT
18	LIGHTING			1,320	1	16	63		2-4/2.5G	IEC01	Ø15 mm.EMT
20	LIGHTING	1,650			1	16	63		2-4/2.5G	IEC01	Ø15 mm.EMT
22	LIGHTING		1,320		1	16	63		2-4/2.5G	IEC01	Ø15 mm.EMT
24	LIGHTING			800	1	16*	63		2-4/2.5G	IEC01	Ø15 mm.EMT
26	LIGHTING	3,000			1	20*	63		2-4/2.5G	IEC01	Ø15 mm.EMT
28	LIGHTING		3,000		1	20*	63		2-4/2.5G	IEC01	Ø15 mm.EMT
30	LIGHTING			3,000	1	20*	63		2-4/2.5G	IEC01	Ø15 mm.EMT
32	LIGHTING	150			1	16*	63		2-4/2.5G	IEC01	Ø15 mm.EMT
34	LIGHTING		320		1	16	63		2-4/2.5G	IEC01	Ø15 mm.EMT
36	SPARE				1	16	63				
38	SPARE				1	16	63				
40	SPARE				1	16	63				
42	SPARE				1	16	63				
TOTAL		14,830	11,470	11,250	MAIN LUG				MAIN FEEDER		RACEWAY
CONNECTED LOAD (VA)		37,550			NONE				SEE DISTRIBUTION BOARD SCHEDULE		
80 % DEMAND LOAD (VA)		30,040									

 SYMMETRICAL SHORT CIRCUIT CURRENT I_k >= 5 kA_{r.m.s.}

REMARKS : L : LIGHTING ; O : OUTLET ; J : JUNCTION BOX ; * : 30 mA ELCB

 PROJECT : UTK
 PROJECT NO. : PSE01

 INITIAL : TV
 REVISION : A

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LOAD SCHEDULE		PANELBOARD									
NAME		4ELP1				LOCATION		ห้องไฟฟ้า ชั้น 4			
CAPACITY (CCT.)		30				MAIN BAR		100A			
CONNECTED TO		EMDB									
CCT. NO.	DESCRIPTION	CONNECTED LOAD (VA)			CIRCUIT BREAKER				CONDUCTOR		RACE WAY
		R	Y	B	POLE	AT	AF	IC	SIZE (MM ²)	TYPE	
1	RECEPTACLE	200			1	16*	63		2-4/2.5G	IEC01	Ø15 mm.EMT
3	RECEPTACLE		600		1	16*	63		2-4/2.5G	IEC01	Ø15 mm.EMT
5	SPARE				1	16	63				
7	SPARE				1	16	63				
9	SPARE				1	16	63				
11	SPARE				1	16	63				
13	SPARE				1	16	63				
15	SPARE				1	16	63				
17	EXIT SIGN				1	16	63		2-4/2.5G	IEC01	Ø15 mm.EMT
19											
21											
23											
25											
27											
29											
31											
33											
35											
37											
39											
41											
2	LIGHTING	1,330			1	16	63		2-4/2.5G	IEC01	Ø15 mm.EMT
4	LIGHTING		960		1	16	63		2-4/2.5G	IEC01	Ø15 mm.EMT
6	LIGHTING			2,650	1	16	63		2-4/2.5G	IEC01	Ø15 mm.EMT
8	LIGHTING	2,650			1	16	63		2-4/2.5G	IEC01	Ø15 mm.EMT
10	LIGHTING		1,650		1	16	63		2-4/2.5G	IEC01	Ø15 mm.EMT
12	LIGHTING			1,420	1	16*	63		2-4/2.5G	IEC01	Ø15 mm.EMT
14	LIGHTING	1,500			1	16*	63		2-4/2.5G	IEC01	Ø15 mm.EMT
16	LIGHTING		1,500		1	16*	63		2-4/2.5G	IEC01	Ø15 mm.EMT
18	LIGHTING			1,500	1	16*	63		2-4/2.5G	IEC01	Ø15 mm.EMT
20	LIGHTING	200			1	16*	63		2-4/2.5G	IEC01	Ø15 mm.EMT
22	LIGHTING		320		1	16	63		2-4/2.5G	IEC01	Ø15 mm.EMT
24	LIGHTING			1,120	1	16	63		2-4/2.5G	IEC01	Ø15 mm.EMT
26	SPARE				1	16	63				
28	SPARE				1	16	63				
30	SPARE				1	16	63				
32											
34											
36											
38											
40											
42											
TOTAL		5,880	5,030	6,690	MAIN CB				MAIN FEEDER	RACEWAY	
CONNECTED LOAD (VA)		17,600			3P 50 AT / 100AF				REFER TO SCHEMATIC		
80 % DEMAND LOAD (VA)		14,080			IC >= 18 kA at 400 V						

 SYMMETRICAL SHORT CIRCUIT CURRENT I_k >= 5 kA_{r.m.s.}

REMARKS : L : LIGHTING ; O : OUTLET ; J : JUNCTION BOX ; * : 30 mA ELCB
 PROJECT : UTK INITIAL : TV DATE : 2/9/2013
 PROJECT NO. : PSE01 REVISION : A PAGE NO. :

LOAD SCHEDULE		PANELBOARD									
NAME		5LP1				LOCATION		ห้องไฟฟ้า ชั้น 5			
CAPACITY (CCT.)		42				MAIN BAR		100A			
CONNECTED TO		MDB									
CCT. NO.	DESCRIPTION	CONNECTED LOAD (VA)			CIRCUIT BREAKER				CONDUCTOR		RACE WAY
		R	Y	B	POLE	AT	AF	IC	SIZE (MM ²)	TYPE	
1	RECEPTACLE	1,600			1	16*	63		2-4/2.5G	IEC01	Ø15 mm.EMT
3	RECEPTACLE		1,800		1	16*	63		2-4/2.5G	IEC01	Ø15 mm.EMT
5	RECEPTACLE			1,800	1	16*	63		2-4/2.5G	IEC01	Ø15 mm.EMT
7	SPARE				1	16	63				
9	SPARE				1	16	63				
11	SPARE				1	16	63				
13	SPARE				1	16	63				
15	SPARE				1	16	63				
17	EMERGENCY LIGHT			1,500	1	16	63		2-4/2.5G	IEC01	Ø15 mm.EMT
19											
21											
23											
25											
27											
29											
31											
33											
35											
37											
39											
41											
2	LIGHTING	1,440			1	16	63		2-4/2.5G	IEC01	Ø15 mm.EMT
4	LIGHTING		1,220		1	16	63		2-4/2.5G	IEC01	Ø15 mm.EMT
6	LIGHTING			640	1	16	63		2-4/2.5G	IEC01	Ø15 mm.EMT
8	LIGHTING	1,500			1	16	63		2-4/2.5G	IEC01	Ø15 mm.EMT
10	LIGHTING		1,500		1	16	63		2-4/2.5G	IEC01	Ø15 mm.EMT
12	LIGHTING			1,500	1	16	63		2-4/2.5G	IEC01	Ø15 mm.EMT
14	LIGHTING	1,500			1	16	63		2-4/2.5G	IEC01	Ø15 mm.EMT
16	LIGHTING		1,500		1	16	63		2-4/2.5G	IEC01	Ø15 mm.EMT
18	LIGHTING			1,500	1	16	63		2-4/2.5G	IEC01	Ø15 mm.EMT
20	LIGHTING	1,500			1	16	63		2-4/2.5G	IEC01	Ø15 mm.EMT
22	LIGHTING		1,500		1	16	63		2-4/2.5G	IEC01	Ø15 mm.EMT
24	LIGHTING			1,500	1	16	63		2-4/2.5G	IEC01	Ø15 mm.EMT
26	LIGHTING	1,500			1	16	63		2-4/2.5G	IEC01	Ø15 mm.EMT
28	LIGHTING		1,500		1	16	63		2-4/2.5G	IEC01	Ø15 mm.EMT
30	LIGHTING			1,500	1	16	63		2-4/2.5G	IEC01	Ø15 mm.EMT
32	LIGHTING	1,500			1	16	63		2-4/2.5G	IEC01	Ø15 mm.EMT
34	LIGHTING		1,500		1	16	63		2-4/2.5G	IEC01	Ø15 mm.EMT
36	LIGHTING			320	1	16	63		2-4/2.5G	IEC01	Ø15 mm.EMT
38	SPARE										
40	SPARE										
42	SPARE										
TOTAL		10,540	10,520	10,260	MAIN CB				MAIN FEEDER		RACEWAY
CONNECTED LOAD (VA)		31,320			3P 100 AT / 100AF				REFER TO SCHEMATIC		
80 % DEMAND LOAD (VA)		25,056			IC >= 18 kA at 400 V						

 SYMMETRICAL SHORT CIRCUIT CURRENT I_k >= 5 kA_{r.m.s.}

REMARKS : L : LIGHTING ; O : OUTLET ; J : JUNCTION BOX ; * : 30 mA ELCB
 PROJECT : UTK INITIAL : TV DATE : 2/9/2013
 PROJECT NO. : PSE01 REVISION : A PAGE NO. :

LOAD SCHEDULE : PANELBOARD												
NAME		5ELP1			LOCATION		ห้องไฟฟ้า ชั้น 5					
CAPACITY (CCT.)		30			MAIN BAR		100A					
CONNECTED TO		EMDB										
CCT. NO.	DESCRIPTION	CONNECTED LOAD (VA)			CIRCUIT BREAKER				CONDUCTOR		RACE WAY	
		R	Y	B	POLE	AT	AF	IC	SIZE (MM ²)	TYPE		
1	RECEPTACLE	200			1	16*	63			2-4/2.5G	IEC01	Ø15 mm.EMT
3	SPARE				1	16	63					
5	SPARE				1	16	63					
7	SPARE				1	16	63					
9	SPARE				1	16	63					
11	SPARE				1	16	63					
13	SPARE				1	16	63					
15	SPARE				1	16	63					
17	EXIT SIGN			1,500	1	16	63			2-4/2.5G	IEC01	Ø15 mm.EMT
19												
21												
23												
25												
27												
29												
31												
33												
35												
37												
39												
41												
2	LIGHTING	990			1	16	63			2-4/2.5G	IEC01	Ø15 mm.EMT
4	LIGHTING		1,500		1	16	63			2-4/2.5G	IEC01	Ø15 mm.EMT
6	LIGHTING			1,500	1	16	63			2-4/2.5G	IEC01	Ø15 mm.EMT
8	LIGHTING	1,500			1	16	63			2-4/2.5G	IEC01	Ø15 mm.EMT
10	LIGHTING		1,500		1	16	63			2-4/2.5G	IEC01	Ø15 mm.EMT
12	LIGHTING			1,500	1	16	63			2-4/2.5G	IEC01	Ø15 mm.EMT
14	LIGHTING	1,500			1	16	63			2-4/2.5G	IEC01	Ø15 mm.EMT
16	LIGHTING		1,500		1	16	63			2-4/2.5G	IEC01	Ø15 mm.EMT
18	LIGHTING			1,500	1	16	63			2-4/2.5G	IEC01	Ø15 mm.EMT
20	LIGHTING	200			1	16	63			2-4/2.5G	IEC01	Ø15 mm.EMT
22	LIGHTING		200		1	16	63			2-4/2.5G	IEC01	Ø15 mm.EMT
24	SPARE				1	16	63					
26	SPARE				1	16	63					
28	SPARE				1	16	63					
30	SPARE				1	16	63					
32												
34												
36												
38												
40												
42												
TOTAL		4,390	4,700	6,000	MAIN CB				MAIN FEEDER		RACEWAY	
CONNECTED LOAD (VA)		15,090			3P 50 AT / 100AF				REFER TO SCHEMATIC			
80 % DEMAND LOAD (VA)		12,072			IC >= 18 kA at 400 V							

 SYMMETRICAL SHORT CIRCUIT CURRENT I_k >= 5 kA_{r.m.s.}

REMARKS : L : LIGHTING ; O : OUTLET ; J : JUNCTION BOX ; * : 30 mA ELCB
 PROJECT : UTK INITIAL : TV DATE : 2/9/2013
 PROJECT NO. : PSE01 REVISION : A PAGE NO. :

LOAD SCHEDULE		PANELBOARD									
NAME		MLP1				LOCATION		ห้องไฟฟ้า ชั้นลอย			
CAPACITY (CCT.)		24				MAIN BAR		100A			
CONNECTED TO		MDP1									
CCT. NO.	DESCRIPTION	CONNECTED LOAD (VA)			CIRCUIT BREAKER				CONDUCTOR		RACE WAY
		R	Y	B	POLE	AT	AF	IC	SIZE (MM ²)	TYPE	
1	RECEPTACLE	1,800			1	16*	63		2-4/2.5G	IEC01	Ø15 mm.EMT
3	RECEPTACLE		1,200		1	16*	63		2-4/2.5G	IEC01	Ø15 mm.EMT
5	RECEPTACLE			1,000	1	16*	63		2-4/2.5G	IEC01	Ø15 mm.EMT
7	HEAD END	1,000			1	16	63		2-4/2.5G	IEC01	Ø15 mm.EMT
9	SPARE				1	16	63				
11	SPARE				1	16	63				
13	SPARE				1	16	63				
15	FAN COIL UNIT		1,100		1	16	63		2-4/2.5G	IEC01	Ø15 mm.EMT
17	EMERGENCY LIGHT			1,500	1	16	63		2-4/2.5G	IEC01	Ø15 mm.EMT
19	SMCC-BP	2,000									
21				2,000	3	20	63		4-6/2.5G	IEC01	Ø20 mm.EMT
23					2,000						
25											
27											
29											
31											
33											
35											
37											
39											
41											
2	LIGHTING	520			1	16	63		2-4/2.5G	IEC01	Ø15 mm.EMT
4	LIGHTING		400		1	16	63		2-4/2.5G	IEC01	Ø15 mm.EMT
6	SPARE				1	16	63				
8	SPARE										
10	SPARE										
12	SPARE										
14											
16											
18											
20											
22											
24											
26											
28											
30											
32											
34											
36											
38											
40											
42											
TOTAL		5,320	4,700	4,500	MAIN LUG				MAIN FEEDER		RACEWAY
CONNECTED LOAD (VA)		14,520			NONE				SEE DISTRIBUTION BOARD SCHEDULE		
80 % DEMAND LOAD (VA)		11,616									

 SYMMETRICAL SHORT CIRCUIT CURRENT I_k >= 5 kA_{r.m.s.}

REMARKS : L : LIGHTING ; O : OUTLET ; J : JUNCTION BOX ; * : 30 mA ELCB
 PROJECT : UTK INITIAL : TV DATE : 2/9/2013
 PROJECT NO. : PSE01 REVISION : A PAGE NO. :

LOAD SCHEDULE : PANELBOARD											
NAME		MELP1			LOCATION		ห้องไฟฟ้า ชั้นลอย				
CAPACITY (CCT.)		24			MAIN BAR		100A				
CONNECTED TO		EMDB									
CCT. NO.	DESCRIPTION	CONNECTED LOAD (VA)			CIRCUIT BREAKER				CONDUCTOR		RACE WAY
		R	Y	B	POLE	AT	AF	IC	SIZE (MM ²)	TYPE	
1	RECEPTACLE	400			1	16*	63		2-4/2.5G	IEC01	Ø15 mm.EMT
3	RECEPTACLE		1,400		1	16*	63		2-4/2.5G	IEC01	Ø15 mm.EMT
5	SPARE				1	16	63				
7	SPARE				1	16	63				
9	SPARE				1	16	63				
11	SPARE				1	16	63				
13	SPARE				1	16	63				
15	SPARE				1	16	63		2-4/2.5G	IEC01	Ø15 mm.EMT
17	EXIT SIGN			500	1	16	63				
19											
21											
23											
25											
27											
29											
31											
33											
35											
37											
39											
41											
2	LIGHTING	1,740			1	16	63		2-4/2.5G	IEC01	Ø15 mm.EMT
4	LIGHTING		1,560		1	16	63		2-4/2.5G	IEC01	Ø15 mm.EMT
6	LIGHTING			200	1	16	63		2-4/2.5G	IEC01	Ø15 mm.EMT
8	LIGHTING	500			1	16	63		2-4/2.5G	IEC01	Ø15 mm.EMT
10	LIGHTING		800		1	16	63		2-4/2.5G	IEC01	Ø15 mm.EMT
12	LIGHTING			1,200	1	16*	63		2-4/2.5G	IEC01	Ø15 mm.EMT
14	SPARE				1	16	63				
16	SPARE				1	16	63				
18	SPARE				1	16	63				
20											
22											
24											
26											
28											
30											
32											
34											
36											
38											
40											
42											
TOTAL		2,640	3,760	1,900	MAIN CB				MAIN FEEDER		RACEWAY
CONNECTED LOAD (VA)		8,300			3P 30 AT / 100AF				REFER TO SCHEMATIC		
80 % DEMAND LOAD (VA)		6,640			IC >= 18 kA at 400 V						

 SYMMETRICAL SHORT CIRCUIT CURRENT I_k >= 5 kA_{r.m.s.}

REMARKS : L : LIGHTING ; O : OUTLET ; J : JUNCTION BOX ; * : 30 mA ELCB
 PROJECT : UTK INITIAL : TV DATE : 2/9/2013
 PROJECT NO. : PSE01 REVISION : A PAGE NO. :

LOAD SCHEDULE : PANELBOARD												
NAME		1ULP1			LOCATION		ห้องควบคุม ชั้นที่ 1					
CAPACITY (CCT.)		18			MAIN BAR		100A					
CONNECTED TO		10kVA UPS/ EMDB										
CCT. NO.	DESCRIPTION	CONNECTED LOAD (VA)			CIRCUIT BREAKER				CONDUCTOR		RACE WAY	
		R	Y	B	POLE	AT	AF	IC	SIZE (MM ²)	TYPE		
1	GIDF1	1,000			1	16	63	SYMMETRICAL SHORT CIRCUIT CURRENT I _k >= 5 kA _{r.m.s.}	2-4/2.5G	IEC01	Ø15 mm.EMT	
3	1IDF1		2,000		1	16	63		2-4/2.5G	IEC01	Ø15 mm.EMT	
5	2IDF1			1,000	1	16	63		2-4/2.5G	IEC01	Ø15 mm.EMT	
7	CCTV	1,000			1	16	63		2-4/2.5G	IEC01	Ø15 mm.EMT	
9	SPARE				1	16	63					
11	MIDF1			1,000	1	16	63		2-4/2.5G	IEC01	Ø15 mm.EMT	
13												
15												
17												
19												
21												
23												
25												
27												
29												
31												
33												
35												
37												
39												
41												
2	3IDF1	1,000			1	16	63		2-4/2.5G	IEC01	Ø15 mm.EMT	
4	4IDF1		1,000		1	16	63		2-4/2.5G	IEC01	Ø15 mm.EMT	
6	5IDF1			1,000	1	16	63		2-4/2.5G	IEC01	Ø15 mm.EMT	
8	SPARE				1	16	63					
10	SPARE				1	16	63					
12	SPARE				1	16	63					
14												
16												
18												
20												
22												
24												
26												
28												
30												
32												
34												
36												
38												
40												
42												
TOTAL		3,000	3,000	3,000	MAIN CB				MAIN FEEDER		RACEWAY	
CONNECTED LOAD (VA)		9,000			3P 30 AT / 100AF				REFER TO SCHEMATIC			
80 % DEMAND LOAD (VA)		7,200			IC >= 18 kA at 400 V							

REMARKS : L : LIGHTING ; O : OUTLET ; J : JUNCTION BOX ; * : 30 mA ELCB
 PROJECT : UTK INITIAL : TV DATE : 2/9/2013
 PROJECT NO. : PSE01 REVISION : A PAGE NO. :

LOAD SCHEDULE		PANELBOARD										
NAME		2L1					LOCATION		ร้านค้า ชั้นที่ 2			
CAPACITY (CCT.)		12					MAIN BAR		100A			
CONNECTED TO		2DP1										
CCT. NO.	DESCRIPTION	CONNECTED LOAD (VA)			CIRCUIT BREAKER				CONDUCTOR		RACE WAY	
		R	Y	B	POLE	AT	AF	IC	SIZE (MM ²)	TYPE		
1	RECEPTACLE	1,200			1	16	63	SYMMETRICAL SHORT CIRCUIT CURRENT I _k >= 5 kA _{r.m.s.}	2-4/2.5G	IEC01	Ø15 mm.EMT	
3	RECEPTACLE		1,000		1	16	63		2-4/2.5G	IEC01	Ø15 mm.EMT	
5	SPARE	300			1	16	63					
7			300									
9	OUTDOOR FAN			300	3	16	63		4-4/2.5G	IEC01	Ø20 mm.EMT	
11												
13												
15												
17												
19												
21												
23												
25												
27												
29												
31												
33												
35												
37												
39												
41												
2	LIGHTING	500			1	16	63		2-4/2.5G	IEC01	Ø15 mm.EMT	
4	SPARE				1	16	63					
6	SPARE				1	16	63					
8												
10												
12												
14												
16												
18												
20												
22												
24												
26												
28												
30												
32												
34												
36												
38												
40												
42												
TOTAL		2,000	1,300	300	MAIN CB				MAIN FEEDER	RACEWAY		
CONNECTED LOAD (VA)		3,600			3P 30 AT / 100AF				REFER TO SCHEMATIC			
80 % DEMAND LOAD (VA)		2,880			IC >= 18 kA at 400 V							

REMARKS : L : LIGHTING ; O : OUTLET ; J : JUNCTION BOX ; * : 30 mA ELCB
 PROJECT : UTK INITIAL : TV DATE : 2/9/2013
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LOAD SCHEDULE : PANELBOARD									
NAME		: 1LX (X=1-4)			LOCATION		: ร้านค้า ชั้นที่ 1		
CAPACITY (CCT.)		: 6			MAIN BAR		: 100A		
CONNECTED TO		: 1DP1							
CCT. NO.	DESCRIPTION	CONNECTED LOAD (VA)	CIRCUIT BREAKER				CONDUCTOR		RACE WAY
			POLE	AT	AF	IC	SIZE (MM ²)	TYPE	
1	RECEPTACLE	1,000	1	16*	63	SYMMETRICAL SHORT CIRCUIT CURRENT I _s ≥ 5 kA _{m.r.s}	2-4/2.5G	IEC01	Ø15mm. EMT
2	LIGHTING	500	1	16	63		2-4/2.5G	IEC01	Ø15mm. EMT
3	SPARE		1	16	63				
4									
5									
6									
TOTAL		1,500	MAIN CB				MAIN FEEDER		RACEWAY
CONNECTED LOAD (VA)		1,500	2P 30 AT / 100 AF				SEE DISTRIBUTION BOARD SCHEDULE		
80 % DEMAND LOAD (VA)		1,200	IC ≥ 10 kA at 230 VAC						

REMARKS : L : LIGHTING ; O : OUTLET ; J : JUNCTION BOX ; * : 30mA ELCB