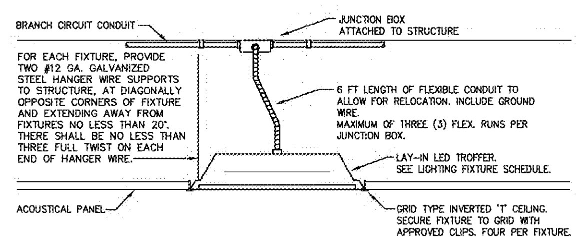
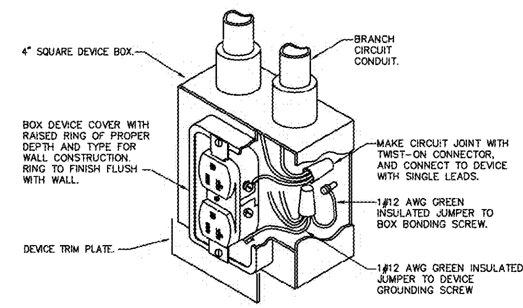


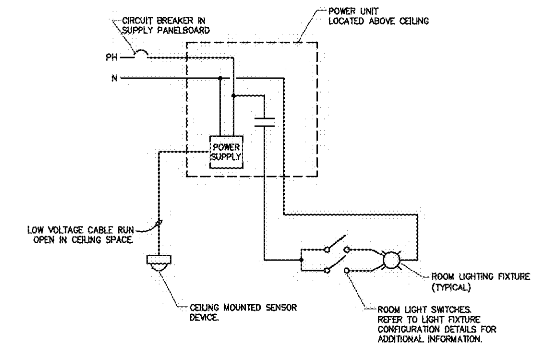
1 / E400 DETAIL – TYPICAL LAY-IN FIXTURE INSTALLATION

Not To Scale



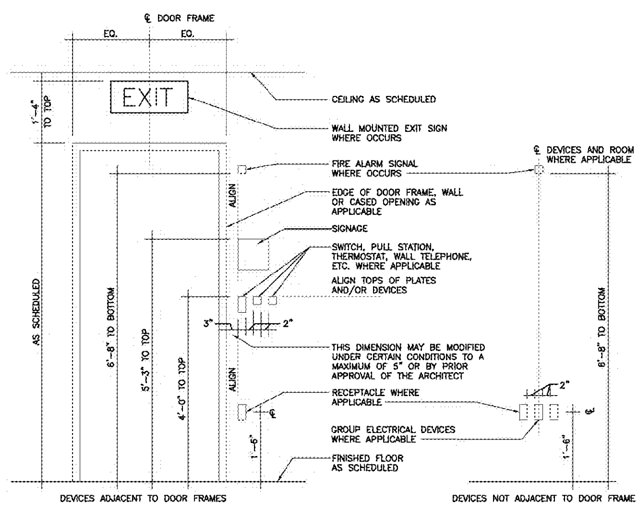
2 / E400 DETAIL – TYPICAL DUPLEX RECEPTACLE INSTALLATION

NOT TO SCALE



3 / E400 DETAIL – OCCUPANCY SENSOR CONTROL

NOT TO SCALE

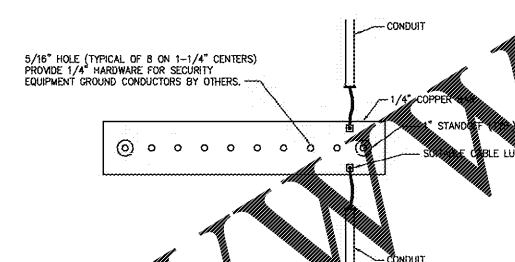


4 / E400 TYPICAL LOCATION OF SWITCHES/ ALARMS/THERMOSTATS/OUTLETS

NO SCALE

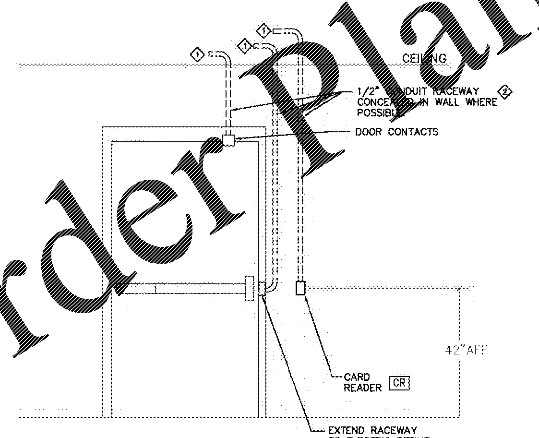
NOTES:

1. SEE ELECTRICAL DRAWINGS FOR SPECIAL CONDITIONS (IE. RECEPTACLES ABOVE COUNTERS, ETC.)
2. ALL THERMOSTATS, SWITCHES, STROBES, HORNS AND OTHER DEVICES SHALL BE INSTALLED IN A NEAT AND ORDERLY FASHION, WITH EACH ITEM BEING PLUMB AND SQUARE.
3. FOR STROBES, HORNS, ETC. NOT ADJACENT TO DOORS, ALIGN VERTICALLY AS DIRECTED BY ARCHITECT.
4. DIMENSIONS SHOWN ARE TO FACE PLATES UNLESS NOTED OTHERWISE.



5 / E400 DETAIL – GROUND BAR

NOT TO SCALE



6 TYPICAL SINGLE DOOR WITH ELECTRIC STRIKE AND CARD READER

SCALE: NOT TO SCALE

NOTES:

1. STUB CONDUIT OUT TO ABOVE NEAREST ACCESSIBLE CEILING. TERMINATE WITH PLASTIC BUSHING.
2. PROVIDE PULL STRINGS IN CONDUIT.

PANELBOARD: REPLACEMENT PANEL R — GROUND BUS — SC RATING: 22 KAMPS RMS SYMM.
SERVICE: 208Y/120V 3PH 4W — MOUNTING: SURFACE
MAINS: 225 AMP MLO — TYPE: BRANCH — ENCLOSURE: NEMA 1

LOAD DESCRIPTION	WIRE	BKR	CKT	NEUT	A	B	C	CKT	BKR	WIRE	LOAD DESCRIPTION
REC: OFFICE 103C	12	20/1	1A		0.7 / 2.9			2A	30/1	10	SP. REC: SERVER 103A
REC: OPEN OFFICE 103	12	20/1	3B			0.3 / 2.9		4B	30/1	10	SP. REC: SERVER 103A
REC: OPEN OFFICE 103	12	20/1	5C				0.3 / 2.9	6C	30/1	10	SP. REC: SERVER 103A
REC: OPEN OFFICE 103	12	20/1	7A		0.3 / 2.9			8A	30/1	10	SP. REC: SERVER 103A
REC: OPEN OFFICE 103	12	20/1	9B			0.7 / 2.9		10B	30/1	10	SP. REC: SERVER 103A
REC: OPEN OFFICE 104	12	20/1	11C				0.3 / 2.9	12C	30/1	10	SP. REC: SERVER 103A
REC: OPEN OFFICE 104	12	20/1	13A		0.6 / 0.9			14A	20/1	12	REC: FLOORBOXES 104
REC: OPEN OFFICE 104	12	20/1	15B			1.0 / 0.0		16B	20/1		SPARE
REC: OPEN OFFICE 104	12	20/1	17C				0.6 / 0.0	18C	20/1		SPARE
REC: OFFICE 104D	12	20/1	19A		0.0 / 0.0			20A	20/1		SPARE
REC: OFFICE104C	12	20/1	21B			0.0 / 0.0		22B	20/1		SPARE
EWC: CORR 101	12	20/1	23C				1.0 / 0.0	24C	20/1		SPARE
SPARE		20/1	25A		0.0 / 0.0			26A	/3		SPACE ONLY
SPARE		20/1	27B			0.0 / 0.0		28B	/		
SPARE		20/1	28C				0.0 / 0.0	30C	/		
SPARE		20/1	31A		0.0 / 0.0			32A	/3		SPACE ONLY
SPARE		20/1	33B			0.0 / 0.0		34B	/		
SPARE		20/1	35C				0.0 / 0.0	36C	/		
SPACE ONLY		/3	37A		0.0 / 0.0			38A	/3		SPACE ONLY
		/	39B			0.0 / 0.0		40B	/		
		/	41C				0.0 / 0.0	42C	/		
				0.0	8.2	7.7	8.0				

NOTES:

LIGHTS	0.0	KVA
RECEPTS	0.7	KVA
MOTORS	1.0	KVA
HEAT	0.0	KVA
KITCHEN	0.0	KVA
CMPTR	21.2	KVA
OTHER	1.0	KVA
TOTAL	23.9	KVA

PANELBOARD: EX. PANEL P — GROUND BUS — SC RATING: 22 KAMPS RMS SYMM.
SERVICE: 208Y/120V 3PH 4W — MOUNTING: SURFACE
MAINS: 225 AMP MLO — TYPE: BRANCH — ENCLOSURE: NEMA 1

LOAD DESCRIPTION	WIRE	BKR	CKT	NEUT	A	B	C	CKT	BKR	WIRE	LOAD DESCRIPTION
EX. PUMP 1.5HP	EX	20/3	1A		0.8 / 1.0			2A	20/1	EX	EXISTING CIRCUIT
	EX	/	3B			0.8 / 1.0		4B	20/1	EX	EXISTING CIRCUIT
	EX	/	5C				0.8 / 0.0	6C	20/1		SPARE
EX. CKT.	EX	20/1	7A	0.0	1.0 / 7.0			8A	110/3	2	PANEL HP
EX. CKT.	EX	20/1	9B	0.0		1.0 / 7.0		10B	/	2	VIA XFMR THP
EX. CKT.	EX	20/1	11C	0.0			1.0 / 7.0	12C	/	2	
EX. REC. CKT.	EX	20/1	13A		0.9 / 0.0			14A	20/1	EX	EXISTING CIRCUIT
EX. REC. CKT.	EX	20/1	15B			0.9 / 2.3		16B	30/2	EX	EX. WATER HEATER
EX. REC. CKT.	EX	20/1	17C				0.9 / 2.3	18C	/	EX	
EX. REC. CKT.	EX	20/1	19A		0.9 / 0.8			20A	20/3	EX	EX AHU 1.5HP
EX. REC. CKT.	EX	20/1	21B			0.9 / 0.8		22B	/	EX	
EX. REC. CKT.	EX	20/1	23C				0.9 / 0.8	24C	/	EX	
EX. REC. CKT.	EX	20/1	25A		0.8 / 1.3			26A	20/3	EX	EX AHU 3HP
EX. REC. CKT.	EX	20/1	27B			0.9 / 1.3		28B	/	EX	
EX. LTG. CKT.	EX	20/1	29C				1.0 / 1.3	30C	/	EX	
EX. LTG. CKT.	EX	20/1	31A		1.0 / 1.3			32A	20/3	EX	EX AHU 3HP
EX. LTG. CKT.	EX	20/1	33B			1.0 / 1.3		34B	/	EX	
EX. LTG. CKT.	EX	20/1	35C				1.0 / 1.3	36C	/	EX	
EX. LTG. CKT.	EX	20/1	37A		1.0 / 2.0			38A	40/3	EX	EX. AHU 5HP
EX. LTG. CKT.	EX	20/1	39B			1.0 / 2.0		40B	/	EX	
EX. CONTROLS CKT.	EX	20/1	41C				0.5 / 2.0	42C	/	EX	
				0.0	19.9	22.2	20.8				

NOTES:

LIGHTS	6.0	KVA
RECEPTS	7.2	KVA
MOTORS	39.6	KVA
HEAT	4.5	KVA
KITCHEN	0.0	KVA
CMPTR	0.0	KVA
OTHER	5.5	KVA
TOTAL	62.8	KVA

PANELBOARD: HP — GROUND BUS — SC RATING: 14 KAMPS RMS SYMM.
SERVICE: 480Y/277V, 3PH, 4W — MOUNTING: SURFACE
MAINS: 45 AMP MCB — TYPE: BRANCH — ENCLOSURE: NEMA 1

LOAD DESCRIPTION	WIRE	BKR	CKT	NEUT	A	B	C	CKT	BKR	WIRE	LOAD DESCRIPTION
DATAIRE INDOOR	8	40/3	1A		6.4 / 0.6			2A	15/3	12	DATAIRE OUTDOOR
UNIT	8	/	3B			6.4 / 0.6		4B	/	12	UNIT
	8	/	5C				6.4 / 0.6	6C	/	12	
SPACE ONLY		/	7A		0.0 / 0.0			8A	/		SPACE ONLY
		/	9B			0.0 / 0.0		10B	/		
		/	11C				0.0 / 0.0	12C	/		
		/							/		
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				0.0	7.0	7.0	7.0				

NOTES:

LIGHTS	0.0	KVA
RECEPTS	0.0	KVA
MOTORS	21.0	KVA
HEAT	0.0	KVA
KITCHEN	0.0	KVA
CMPTR	0.0	KVA
OTHER	0.0	KVA
TOTAL	21.0	KVA

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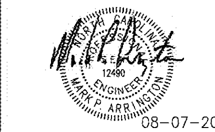

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Drawn	MDK
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Revisions	

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Brown Hall Renovation

1601 E. Market Street
Greensboro, NC 27411

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Project Number 106

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