VA	SERVICE	WIRE	MOPD	TYPE	CIR.	MDP1	CIR.	TYPE	MOPD	WIRE	SERVICE	VA
EXIST.				EXIST.				EXIST.				
EXIST.	AHU–2	EXIST.	30/3	EXIST.	1		2	EXIST.	100/3	EXIST.	EDH–2	EXIST.
EXIST.				EXIST.				EXIST.				EXIST.
–				–				EXIST.				EXIST.
–	SPACE ONLY	–	–	–	3		4	EXIST.	100/3	EXIST.	AHU–1	EXIST.
–				–				EXIST.				EXIST.
EXIST.				EXIST.				–				–
EXIST.	CU–1	EXIST.	250/3	EXIST.	5		6	–	–	–	SPACE ONLY	–
EXIST.				EXIST.				–				–
–				EXIST.				EXIST.				EXIST.
–	SPARE	–	200/3	EXIST.	7		8	EXIST.	200/3	EXIST.	PANEL PLL	EXIST.
–				EXIST.				EXIST.				EXIST.
9647				EXIST.				–				–
9647	PANEL LC	EXIST.	225/3	EXIST.	9		10	–	–	–	SPACE ONLY	–
9647				EXIST.				–				–
7294				EXIST.				EXIST.				EXIST.
7294	PANEL LB	EXIST.	225/3	EXIST.	11		12	EXIST.	200/3	EXIST.	RTU–1	EXIST.
7294				EXIST.				EXIST.				EXIST.
EXIST.				EXIST.				EXIST.				EXIST.
EXIST.	PANEL LA	EXIST.	225/3	EXIST.	13		14	EXIST.	225/3	EXIST.	EDH–1	EXIST.
EXIST.				EXIST.				EXIST.				EXIST.
–				EXIST.								
–	MAIN BREAKER	EXIST.	1000/3	EXIST.	15		16					
–				EXIST.								

LOCATION : ELECTRICAL AREA
PANEL MOUNTING : UNITIZED
SERVICE : 120/208 V, 3PH , 4 WIRE, AC, FULL NEUTRAL
MAINS : 1000 AMP MAIN CIRCUIT BREAKER

D–47

NEW WORK SHOWN BOLD

EXISTING SWITCHBOARD

NOTE:
SEE LOAD SUMMARY ON THIS SHEET.

VA	SERVICE	WIRE	MOPD	TYPE	CIR.	MDP2	CIR.	TYPE	MOPD	WIRE	SERVICE	VA
–				–								
–	SPACE ONLY	–	–	–	1		2					
–				–								
–	SPACE ONLY	–	–	–	3		4					
–				–								
EXIST.				EXIST.				–				–
EXIST.	PANEL R	EXIST.	200/3	EXIST.	5		6	–	–	–	SPACE ONLY	–
EXIST.				EXIST.				–				–
EXIST.				EXIST.				EXIST.				EXIST.
EXIST.	CONDENSER A	EXIST.	40/3	EXIST.	7		8	EXIST.	30/3	EXIST.	CONDENSER B	EXIST.
EXIST.				EXIST.				EXIST.				EXIST.
–				–				EXIST.				EXIST.
–	SPACE ONLY	–	–	–	9		10	EXIST.	400/3	EXIST.	RACK A	EXIST.
–				–				EXIST.				EXIST.
EXIST.				EXIST.				–				–
EXIST.	RACK B	EXIST.	300/3	EXIST.	11		12	–	–	–	SPACE ONLY	–
EXIST.				EXIST.				–				–
–				EXIST.								
–	MAIN BREAKER	EXIST.	1000/3	EXIST.	13		14					
–				EXIST.								

LOCATION : ELECTRICAL AREA
PANEL MOUNTING : UNITIZED
SERVICE : 120/208 V, 3PH , 4 WIRE, AC, FULL NEUTRAL
MAINS : 1000 AMP MAIN CIRCUIT BREAKER

D–47

NEW WORK SHOWN BOLD

EXISTING SWITCHBOARD

NOTE:
SEE LOAD SUMMARY ON THIS SHEET.

VA	SERVICE	WIRE	MOPD	TYPE	CIR.	MDP3	CIR.	TYPE	MOPD	WIRE	SERVICE	VA
EXIST.				EXIST.				EXIST.				EXIST.
EXIST.	EDH–3	EXIST.	80/3	EXIST.	1		2	EXIST.	30/3	EXIST.	OAH–1	EXIST.
EXIST.				EXIST.				EXIST.				EXIST.
3520				EXIST.				EXIST.				EXIST.
3520	PANEL CR VIA UPS	EXIST.	50/2	EXIST.	3		4	EXIST.	100/3	EXIST.	PANEL E	EXIST.
–	SPACE ONLY	–	–	–				EXIST.				EXIST.
–				–				EXIST.				29419
–	SPACE ONLY	–	–	–	5		6	EXIST.	400/3	EXIST.	PANEL D	29419
–				–				EXIST.				29419
–				–				EXIST.				–
–	SPACE ONLY	–	–	–	7		8	EXIST.	225/3	–	D–87 SPARE	–
–				–				EXIST.				–
–				–								7479
–	SPACE ONLY	–	–	–	9		10	EXIST.	225/3	EXIST.	PANEL PC	7479
–				–				EXIST.				7479
10120				EXIST.				EXIST.				11680
10120	PANEL OW	EXIST.	200/3	EXIST.	11		12	EXIST.	225/3	EXIST.	PANEL PB	11680
10120				EXIST.				EXIST.				11680
11265				EXIST.				EXIST.				11334
11265	PANEL B	EXIST.	200/3	EXIST.	13		14	EXIST.	225/3	EXIST.	PANEL PA	11334
11265				EXIST.				EXIST.				11334
–				EXIST.								
–	MAIN BREAKER	EXIST.	1200/3	EXIST.	15		16					
–				EXIST.								

LOCATION : ELECTRICAL AREA
PANEL MOUNTING : UNITIZED
SERVICE : 120/208 V, 3PH , 4 WIRE, AC, FULL NEUTRAL
MAINS : 1200 AMP MAIN CIRCUIT BREAKER

D–47

NEW WORK SHOWN BOLD

EXISTING SWITCHBOARD

NOTE:
SEE LOAD SUMMARY ON THIS SHEET.

SPECIAL REPAIR NOTES

D–XX INDICATES CRESCENT CONSTRUCTION SERVICES REPORT DEFICIENCY. SEE SHEET E6.03 FOR LIST OF CRESCENT REPAIR NOTES.

GENERAL NOTES

All new and relocated case work requires a separate neutral for each: lights, fans, and anti–sweat (door heaters). No double pole breakers are allowed for shared neutrals.

All new and existing low voltage cabling shall be properly supported and neatly secured. All new cables are to be in conduit vertically and secured neatly to steel overhead, any new cabling to be run parallel and perpendicular to exterior walls. All abandoned cables to be removed.

No new MC Cable is to be installed as a home run or be vertically exposed on a wall / constructed assembly.

Conduit Fittings – All new are to be compression type.

Junction Box / Device Covers – Replace all missing, broken, or otherwise deficient for project close out. Non weatherproof device covers to be stainless steel. Weatherproof device covers are to be installed in prep areas and outside. All WP covers are to be AL. (Aluminum).

Where a conduit passes through an insulated panel and into a refrigerated space; that conduit interior and penetration shall be sealed to prevent moisture transfer and accumulation. Any moisture accumulation / condensation or ice present within a refrigerated space, conduit body, electrical box or fixtures shall be removed while the entry point is properly repaired / sealed.

All new disconnects shall be General Electric, General Duty at a minimum, 3R rated as required, and non fused unless specified otherwise by equipment nameplate.

All branch circuit panelboards shall be vacuumed, All electrical enclosure covers shall be installed and adequately secured to obtain project close out.

All branch circuit panel boards, safety disconnects, electrical distribution equipment, main breakers, and main service disconnects shall be labeled with phenolic tags, black on white, 1.5" tall. Distribution sections shall be labeled according to arc flash labels.

All Emergency lighting shall be on a scheduled circuit, and on the line side of any energy management controls.

An Arc Flash Study has been performed and all distribution equipment is labeled with it's available incident energy, (cal/cm2 Flash Hazard at 18 inches), for selecting the proper electrical PPE per 2012 NFPA 70E. NO HOT WORK IS ALOWED in any Main,

LOAD SUMMARY MDP1

SERVICE : 120/208V–3PH–4W

CONNECTED LOAD			DEMAND KVA
EXISTING PEAK DEMAND LOAD:	104.8 ($\frac{1}{.85}$ PF)(1.25)		154.1
ADDED LOADS:			
LIGHTING (NET UNCHANGED)	0.0	KVA X 1.25 =	0.0
MISC. / RECEPTACLES	5.2	KVA X 1.0 =	5.2
HVAC	2.0	KVA X 1.0 =	2.0
		TOTALS:	161.3 KVA
		÷ $\sqrt{3}$ 208V =	448.1 AMPS

LOAD SUMMARY MDP2

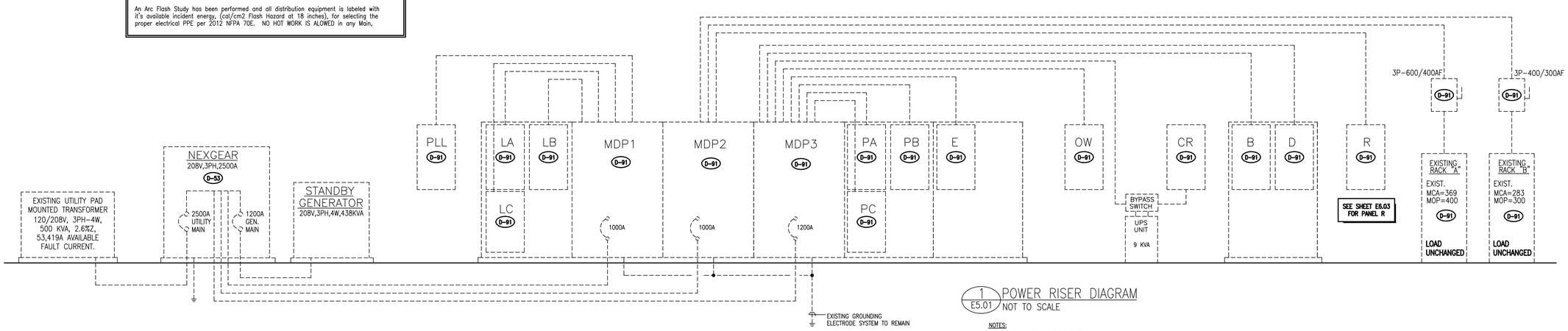
SERVICE : 120/208V–3PH–4W

NO LOAD ADDED

LOAD SUMMARY MDP3

SERVICE : 120/208V–3PH–4W

CONNECTED LOAD			DEMAND KVA
EXISTING PEAK DEMAND LOAD:	102.1 ($\frac{1}{.85}$ PF)(1.25)		150.2
REMOVED LOADS:			
KITCHEN EQUIPMENT	45.8	KVA X 0.65 =	–(29.8)
ADDED LOADS:			
MISC. / RECEPTACLES	7.2	KVA X 1.0 =	7.2
KITCHEN EQUIPMENT	21.9	KVA X 0.65 =	14.2
REFRIGERATED BINS	3.1	KVA X 1.0 =	3.1
REFRIGERATED CASES (NET UNCHANGED)	0.0	KVA X 1.0 =	0.0
		TOTALS:	144.9 KVA
		÷ $\sqrt{3}$ 208V =	402.5 AMPS



1 E5.01 POWER RISER DIAGRAM
NOT TO SCALE

NOTES:
1. DASHED LINES INDICATE EXISTING.
2. ALL WIRE SHALL BE THHN, THWN COPPER, UNLESS OTHERWISE NOTED.
3. "X OUT" ITEMS TO BE REMOVED.

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CHECKED BY: HK
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FOOD LION

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REVISION / ISSUE HISTORY

REV	DATE	REVISION / ISSUE NAME
	04/14/2023	PERMIT

PROJECT NO	DRAWN BY
2220380	KAK
PERMIT SUB DATE	CHECKED BY
04/14/2023	HCK

PROJECT
FOOD LION STORE #2594

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SPRING LAKE, NC 28390
2594FLMK23

CLIENT
FOOD LION

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SHEET TITLE
ELECTRICAL DETAILS CHECKOUT PLAN

SHEET NO 2594 E5.01_00
E5.01

REV