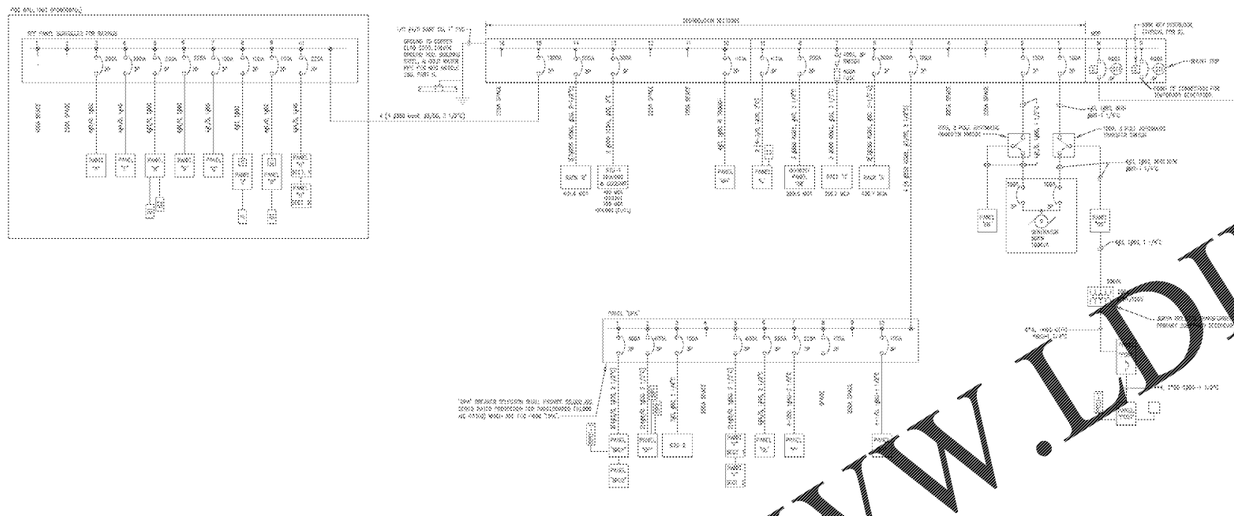

1 E7.1 ELECTRICAL RISER DIAGRAM
SCALE: 1/4"=1'-0"

LOAD ANALYSIS - FOR SERVICE #1 OF 1 208Y/120V, 3 PHASE, 4 WIRE					
LOAD	KVA	NEC DEMAND FACTOR	NEC KVA	AMPS @ 208 VAC	NOTES
EXISTING PEAK LOAD*	508	1.25	636	1924	NEC Article 220, Section 220-67
DELETED LOAD		1.00	0	0	
ADDED LOAD					
LIGHTING - Continuous	43.32	1.25	32	144	NEC Article 210, Section 210-3
HVAC EQUIPMENT	0	1.00	0	0	NEC Article 440, Section 440-35 & 220-82
PROJECT REFRIGERATION	24.70	1.00	25	69	NEC Article 440, Section 440-35 & 220-82
KITCHEN EQUIPMENT	22.40	0.65	15	41	NEC Article 220, Section 220-56
WATER HEATERS	0	1.25	0	0	NEC Article 422, Section 422-15
RECEPTACLES - 1ST 10 KVA	10	1.00	10	28	NEC Article 220, Section 220-44
RECEPTACLES - REMAINING	0.32	0.50	0	0	NEC Article 220, Section 220-44
OTHER - Continuous	0	1.25	0	0	NEC Article 210, Section 210-3
OTHER - Non-Continuous	10.00	1.00	11	30	NEC Article 210, Section 210-3
TOTAL LOAD			770	2136	
SERVICE EQUIP. RATING - AMPS				4000	

PEAK DEMAND = 423KW
POWER FACTOR = 0.8
PEAK DEMAND = 423/0.8 = 528 KVA

*Based on previous 12 month peak load demand data provided by the utility.
A power factor of 0.8 has been assumed to determine peak KVA.

NOTES

1. ALL EXISTING CONDITIONS ARE SHOWN GRAYSCALED. ALL NEW WORK IS SHOWN BOLD.

NORTH

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ISSUE FOR
100% FOR CONSTRUCTION

ISSUE DATE
10/16/2019

REVISIONS

NO.	REASON	DATE

PROJECT TEAM
PRINCIPAL IN CHARGE
Knox Stacy, PE
PROJECT MANAGER
Perry Morrow
DESIGN TEAM
BT/BTT

PROJECT NAME
PUBLIX 1485 Remodel
Village at Cherry Road
2186 N. Cherry Road
Rock Hill, SC 29732

PROJECT NUMBER
122.12061.00

SHEET TITLE
ELECTRICAL RISER DIAGRAM

SHEET NUMBER
E7.1

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