

PACKAGING CORPORATION OF AMERICA (PCA)
21 LEIGH FISHER BOULEVARD
EL PASO, TEXAS 79906



ELECTRICAL PLAN SET INDEX

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- E1.01 ELECTRICAL UTILITY SITE PLAN
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- E3.01 ELECTRICAL PANEL BOARD SCHEDULES

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JULY 17, 2019

PROJECT:
ELECTRICAL SERVICE UPGRADE
PACKAGING CORPORATION OF AMERICA
21 LEIGH FISHER BOULEVARD
EL PASO, TEXAS 79906
TITLE:
ELECTRICAL COVER SHEET

REVISIONS

DATE:
JULY 10, 2019

DRAWN BY:
DAE

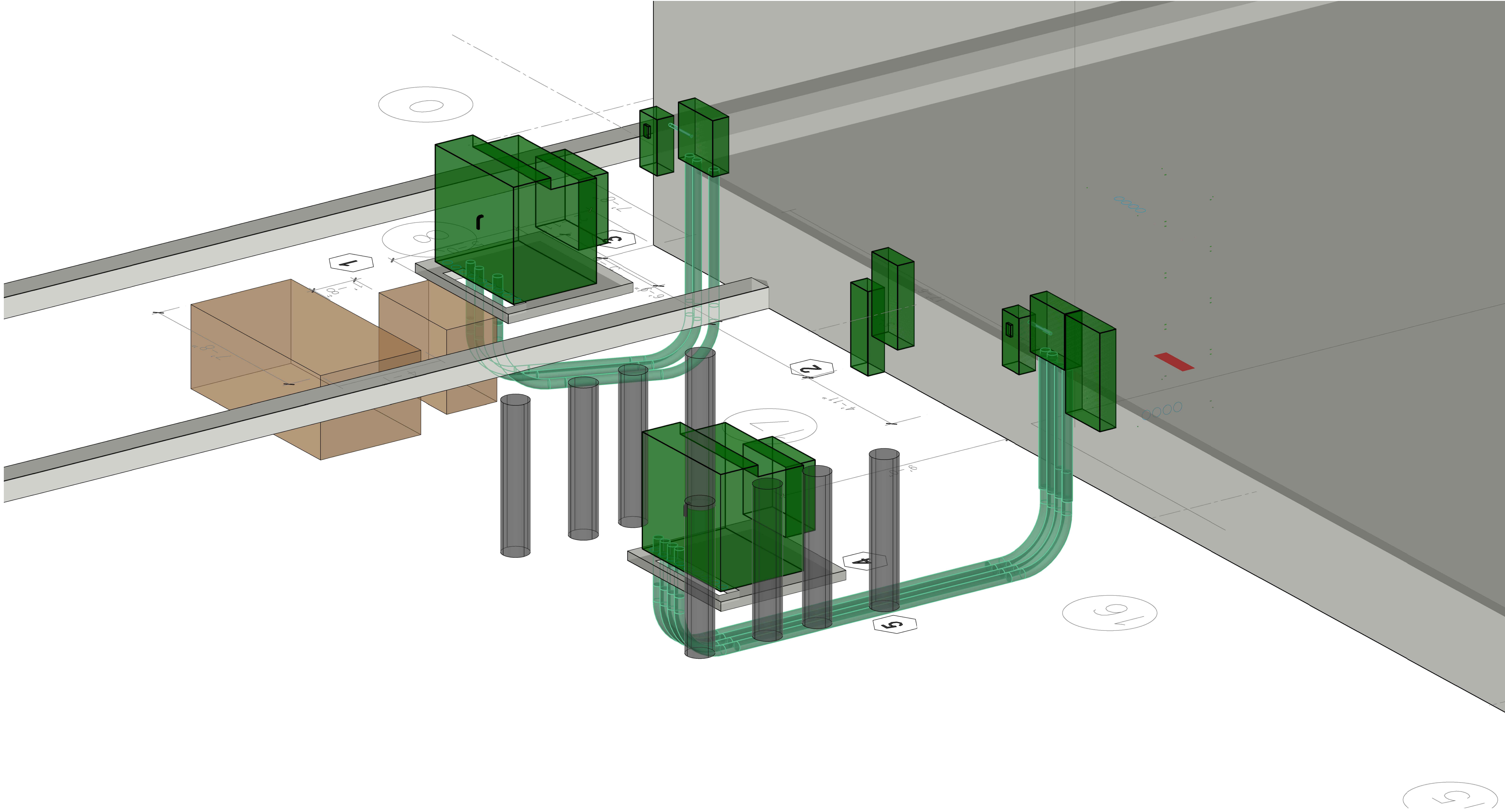
CHECKED BY:
DAE

APPROVED BY:
DAE

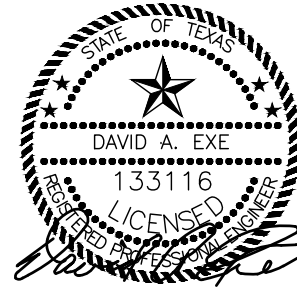
SHEET NO:

E1.00

7/17/2019 3:50:00 PM



1 ELECTRICAL SERVICE ISOMETRIC VIEW
E1.02 SCALE: 1"



JULY 17, 2019

PROJECT:
ELECTRICAL SERVICE UPGRADE
PACKAGING CORPORATION OF AMERICA
21 LEIGH FISHER BOULEVARD
EL PASO, TEXAS 79906
TITLE:
ELECTRICAL SITE PLAN ENLARGED VIEW

REVISIONS

DATE:
JULY 10, 2019

DRAWN BY:
DAE

CHECKED BY:
DAE

APPROVED BY:
DAE

SHEET NO:

E1.02



JULY 17, 2019

PROJECT: **ELECTRICAL SERVICE UPGRADE**
PACKAGING CORPORATION OF AMERICA
21 LEIGH FISHER BOULEVARD
EL PASO, TEXAS 79906

TITLE: **ELECTRICAL LAYOUT NEW CONSTRUCTION**

REVISIONS

DATE:
JULY 10, 2019

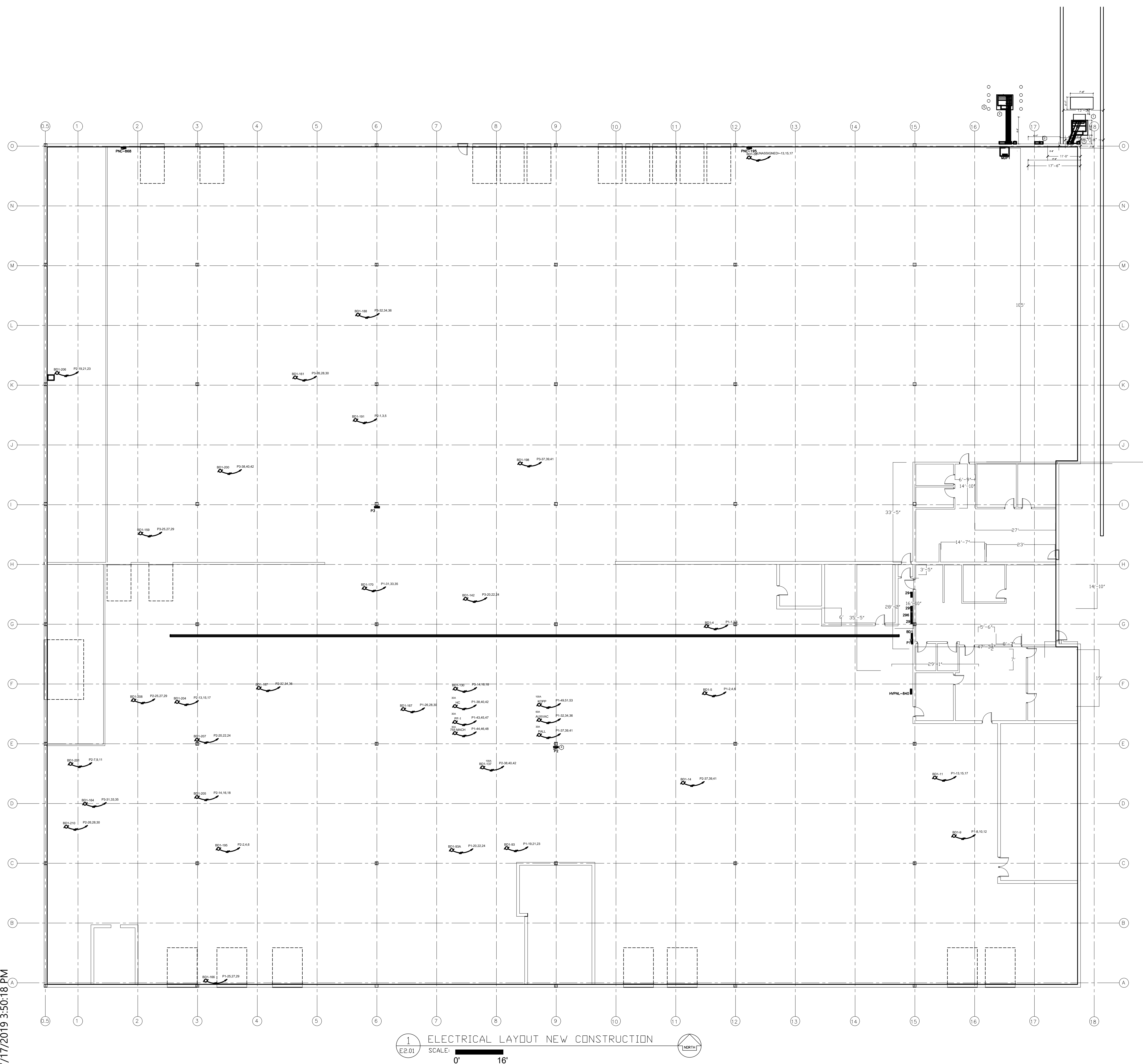
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CHECKED BY:
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APPROVED BY:
DAE

SHEET NO:

E2.01



PANEL P3													
VOLTAGE (L-N):				120				ENCLOSURE TYPE: -----					
VOLTAGE (L-L):				480				MOUNTING: FLOOR					
PHASES, WIRES:				3 ϕ 4 W				AIC RATING (A): 0					
MINIMUM BUS CAPACITY (A):				400 A				NOTES: -----					
MAIN O.C. DEVICE (A):				400 A									
CKT NO	DESCRIPTION	TRIP AMPS	POLE	PHASE LOADS (VA)						POLE	TRIP AMPS	DESCRIPTION	CKT NO
				A			B			C			
1,3,5	BD1-14 MACHINE 141	125	3	0	100					3	60	BD1-50 XFMR 302	2,4,6
1,3,5	BD1-14 MACHINE 141	125	3			0	100			3	60	BD1-50 XFMR 302	2,4,6
1,3,5	BD1-14 MACHINE 141	125	3					0	100	3	60	BD1-50 XFMR 302	2,4,6
7,9,11	BD1-58 HVNPL	125	3	0	100					3	60	BD1-108 XFMR 850F	8,10,12
7,9,11	BD1-58 HVNPL	125	3			0	100			3	60	BD1-108 XFMR 850F	8,10,12
7,9,11	BD1-58 HVNPL	125	3					0	100	3	60	BD1-108 XFMR 850F	8,10,12
13,15,17	BD1-116 262 WARD	125	3	100	100					3	100	BD1-130 MACHINE 254	14,16,18
13,15,17	BD1-116 262 WARD	125	3			100	100			3	100	BD1-130 MACHINE 254	14,16,18
13,15,17	BD1-116 262 WARD	125	3					100	100	3	100	BD1-130 MACHINE 254	14,16,18
19,21,23	-----	100	3	0	100					3	60	BD1-142 STACKER 262	20,22,24
19,21,23	-----	100	3			0	100			3	60	BD1-142 STACKER 262	20,22,24
19,21,23	-----	100	3					0	100	3	60	BD1-142 STACKER 262	20,22,24
25,27,29	BD1-159 AIR COMP	200	3	100	100					3	60	BD1-161 BANDER	26,28,30
25,27,29	BD1-159 AIR COMP	200	3			100	100			3	60	BD1-161 BANDER	26,28,30
25,27,29	BD1-159 AIR COMP	200	3					100	100	3	60	BD1-161 BANDER	26,28,30
31,33,35	BD1-164 HOGGER	200	3	100	100					3	60	BD1-188 CONVEYER $\odot$ BANDER	32,34,36
31,33,35	BD1-164 HOGGER	200	3			100	100			3	60	BD1-188 CONVEYER $\odot$ BANDER	32,34,36
31,33,35	BD1-164 HOGGER	200	3					100	100	3	60	BD1-188 CONVEYER $\odot$ BANDER	32,34,36
37,39,41	BD1-198 BLOWER	100	3	100	100					3	60	BD1-200 AUTO MACHINE	38,40,42
37,39,41	BD1-198 BLOWER	100	3			100	100			3	60	BD1-200 AUTO MACHINE	38,40,42
37,39,41	BD1-198 BLOWER	100	3					100	100	3	60	BD1-200 AUTO MACHINE	38,40,42
43,45,47	-----	20	3	0	0					3	20	-----	44,46,48
43,45,47	-----	20	3			0	0			3	20	-----	44,46,48
43,45,47	-----	20	3					0	0	3	20	-----	44,46,48
49,51,53	-----	100	3	0	0					3	20	-----	50,52,54
49,51,53	-----	100	3			0	0			3	20	-----	50,52,54
49,51,53	-----	100	3					0	0	3	20	-----	50,52,54
CONNECTED LOAD PHASE TOTALS (VA)													
				1100	1100	1100							
				CONNECTED LOAD (KVA)			DEMAND FACTOR			DEMAND LOAD (KVA)			
Motors				3.0			1.00			3.0			329.2 KVA
Motors (Largest)				0.3			1.25			0.4			395.9 AMPS
													99 %
													100 %
													100 %
TOTAL:				3.3			3.4						
LOAD (AMPS):				4.0			4.1						

PANEL P1														
VOLTAGE (L-N):				240				ENCLOSURE TYPE: -----						
VOLTAGE (L-L):				480				MOUNTING: SURFACE						
PHASES, WIRES:				3 ϕ 4 W				AIC RATING (A): 0						
MINIMUM BUS CAPACITY (A):				400 A				NOTES: -----						
MAIN O.C. DEVICE (A):				400 A										
CKT NO	DESCRIPTION	TRIP AMPS	POLE	PHASE LOADS (VA)						POLE	TRIP AMPS	DESCRIPTION	CKT NO	
				A			B			C				
1,3,5	BD1-4 ENG VACUUM	20	3	100	100					3	30	BD1-5 PRESS	2,4,6	
1,3,5	BD1-4 ENG VACUUM	20	3			100	100			3	30	BD1-5 PRESS	2,4,6	
1,3,5	BD1-4 ENG VACUUM	20	3					100	100	3	30	BD1-5 PRESS	2,4,6	
7,9,11	BD1-7 SPARE	20	3	100	100					3	25	BD1-9 SLITTER 183	8,10,12	
7,9,11	BD1-7 SPARE	20	3			100	100			3	25	BD1-9 SLITTER 183	8,10,12	
7,9,11	BD1-7 SPARE	20	3					100	100	3	25	BD1-9 SLITTER 183	8,10,12	
13,15,17	BD1-11 SLITTER 180	20	3	100	100					3	30	BD1-36 SPARE	14,16,18	
13,15,17	BD1-11 SLITTER 180	20	3			100	100			3	30	BD1-36 SPARE	14,16,18	
13,15,17	BD1-11 SLITTER 180	20	3					100	100	3	30	BD1-36 SPARE	14,16,18	
19,21,23	BD1-93 COMET 412	30	3	100	100					3	30	BD1-93A COMET 412	20,22,24	
19,21,23	BD1-93 COMET 412	30	3			100	100			3	30	BD1-93A COMET 412	20,22,24	
19,21,23	BD1-93 COMET 412	30	3					100	100	3	30	BD1-93A COMET 412	20,22,24	
25,27,29	BD1-166 DOCK LEVELER	40	3	100	100					3	20	BD1-167 BUNDLER	26,28,30	
25,27,29	BD1-166 DOCK LEVELER	40	3			100	100			3	20	BD1-167 BUNDLER	26,28,30	
25,27,29	BD1-166 DOCK LEVELER	40	3					100	100	3	20	BD1-167 BUNDLER	26,28,30	
31,33,35	BD1-170 CONVEYOR	30	3	100	100					3	60	AUX VACUUM	32,34,36	
31,33,35	BD1-170 CONVEYOR	30	3			100	100			3	60	AUX VACUUM	32,34,36	
31,33,35	BD1-170 CONVEYOR	30	3					100	100	3	60	AUX VACUUM	32,34,36	
37,39,41	PALLETIZER	30	3	100	100					3	30	HORSESHOE CONVEYOR	38,40,42	
37,39,41	PALLETIZER	30	3			100	100			3	30	HORSESHOE CONVEYOR	38,40,42	
37,39,41	PALLETIZER	30	3					100	100	3	30	HORSESHOE CONVEYOR	38,40,42	
43,45,47	PRE-FEEDER	30	3	100	100					3	30	755 MACHINE	44,46,48	
43,45,47	PRE-FEEDER	30	3			100	100			3	30	755 MACHINE	44,46,48	
43,45,47	PRE-FEEDER	30	3					100	100	3	30	755 MACHINE	44,46,48	
49,51,53	KOPP	100	3	100	0					3	60	-----	50,52,54	
49,51,53	KOPP	100	3			100	0			3	60	-----	50,52,54	
49,51,53	KOPP	100	3					100	0	3	60	-----	50,52,54	
CONNECTED LOAD PHASE TOTALS (VA)														
				1700	1700	1700								
				CONNECTED LOAD			DEMAND FACTOR			DEMAND LOAD (KVA)				
Motors				4.8			1.00			4.8			5.2 KVA	
Motors (Largest)				0.3			1.25			0.4			327.4 KVA	
													393.8 AMPS	
													98 %	
													100 %	
													100 %	
													100 %	
TOTAL:				5.1			5.2							
LOAD (AMPS):				6.1			6.2							

PANEL P2															
VOLTAGE (L-N):				277				ENCLOSURE TYPE: -----							
VOLTAGE (L-L):				480				MOUNTING: SURFACE							
PHASES, WIRES:				3 ϕ 4 W				AIC RATING (A): 0							
MINIMUM BUS CAPACITY (A):				400 A				NOTES: -----							
MAIN O.C. DEVICE (A):				400 A											
CKT NO	DESCRIPTION	TRIP AMPS	POLE	PHASE LOADS (VA)						POLE	TRIP AMPS	DESCRIPTION	CKT NO		
				A			B			C					
1,3,5	BD1-191 CP CONVEYOR	30	3	100	100					3	20	BD1-195 STITCHER	2,4,6		
1,3,5	BD1-191 CP CONVEYOR	30	3			100	100			3	20	BD1-195 STITCHER	2,4,6		
1,3,5	BD1-191 CP CONVEYOR	30	3					100	100	3	20	BD1-195 STITCHER	2,4,6		
7,9,11	BD1-201 W WALL RECEPT	30	3	100	100					3	25	BD1-203 BAND SAW	8,10,12		
7,9,11	BD1-201 W WALL RECEPT	30	3			100	100			3	25	BD1-203 BAND SAW	8,10,12		
7,9,11	BD1-201 W WALL RECEPT	30	3					100	100	3	25	BD1-203 BAND SAW	8,10,12		
13,15,17	BD1-204 MACHINE 220	30	3	100	100					3	30	BD1-205 TABER GLUER	14,16,18		
13,15,17	BD1-204 MACHINE 220	30	3			100	100			3	30	BD1-205 TABER GLUER	14,16,18		
13,15,17	BD1-204 MACHINE 220	30	3					100	100	3	30	BD1-205 TABER GLUER	14,16,18		
19,21,23	BD1-206 XFMR 869	30	3	100	100					3	15	BD1-207 HAND GLUER	20,22,24		
19,21,23	BD1-206 XFMR 869	30	3			100	100			3	15	BD1-207 HAND GLUER	20,22,24		
19,21,23	BD1-206 XFMR 869	30	3					100	100	3	15	BD1-207 HAND GLUER	20,22,24		
25,27,29	BD1-208 ESSENT SLITTER	20	3	100	100					3	40	BD1-210 BALER	26,28,30		
25,27,29	BD1-208 ESSENT SLITTER	20	3			100	100			3	40	BD1-210 BALER	26,28,30		
25,27,29	BD1-208 ESSENT SLITTER	20	3					100	100	3	40	BD1-210 BALER	26,28,30		
31,33,35	-----	20	3	0	100					3	20	BD1-187 CP CONVEYOR	32,34,36		
31,33,35	-----	20	3			0	100			3	20	BD1-187 CP CONVEYOR	32,34,36		
31,33,35	-----	20	3					0	100	3	20	BD1-187 CP CONVEYOR	32,34,36		
37,39,41	BD1-14	125	3	100	100					3	100	BD1-137 STACKER 423	38,40,42		
37,39,41	BD1-14	125	3			100	100			3	100	BD1-137 STACKER 423	38,40,42		
37,39,41	BD1-14	125	3					100	100	3	100	BD1-137 STACKER 423	38,40,42		
43,45,47	NEW EQUIP MAIN 755 FEED	100	3	0	0					3	60	NEW EQUIP CP-VAC-755	44,46,48		
43,45,47	NEW EQUIP MAIN 755 FEED	100	3			0	0			3	60	NEW EQUIP CP-VAC-755	44,46,48		
43,45,47	NEW EQUIP MAIN 755 FEED	100	3					0	0	3	60	NEW EQUIP CP-VAC-755	44,46,48		
49,51,53	NEW EQUIP CP-PREFEED-755	30	3	0	0					3	30	NEW EQUIP CP-ONT-755	50,52,54		
49,51,53	NEW EQUIP CP-PREFEED-755	30	3			0	0			3	30	NEW EQUIP CP-ONT-755	50,52,54		
49,51,53	NEW EQUIP CP-PREFEED-755	30	3					0	0	3	30	NEW EQUIP CP-ONT-755	50,52,54		
CONNECTED LOAD PHASE TOTALS (VA)															
				1300			1300			1300					
CONNECTED LOAD				DEMAND FACTOR			DEMAND LOAD (KVA)			DEMAND LOAD					
Motors				3.6			1.00			3.6			4.0 KVA		
Motors (Largest)				0.3			1.25			0.4			328.6 KVA		
										SPARE CAPACITY			395.2 AMPS		
										SPARE CAPACITY			99 %		
										PHASE BALANCE					
										A TO B			100 %		
										B TO C			100 %		
										C TO A			100 %		
TOTAL:				3.9			4.0								
LOAD (AMPS):				4.7			4.8								