Branch Panel: 1LSL1

Location: EM ELECT SWGR. C160
Supply From: MDP
Mounting: Surface
Enclosure: NEMA 1

Volts: 480/277 Wye
Phases: 3
Wires: 4

A.I.C. Rating: 65,000
Mains Type: MCB
Mains Rating: 100 A
MCB Rating: 100 A
Neutral Rating: 100.00%

y y y y

	f	ff		ff							ff		ff	f	
r	yly y rH-7y rH		ohyl	r	h%y J x%y J										o
g	%yly y y 6		ohyl	r			o%y J -%y J				g	Hhyl		y % r6 J y r	4
H	%yly y y 6		ohyl	r					o%y J	g%y J					-
/	%0y %g		ohyl	r	h%y J h%y J						r	ohyl		y %y y y ohx	x
m	%yly y		ohyl	o			h%y J h%y J				r	ohyl		%y %r-h	rh
rr								h%y J	h%y J		11	11	11		ro
rg		11	11	11	h%y J h%y J						11	11	11		r4
rH		11	11	11			h%y J h%y J				11	11	11		r-
r/		11	11	11					h%y J	h%y J	11	11	11		rx
rm		11	11	11	h%y J h%y J						11	11	11		oh
or		11	11	11			h%y J h%y J				11	11	11		oo
og		11	11	11					h%y J	h%y J	11	11	11		o4
oH		11	11	11	h%y J h%y J										o-
o/		11	11	11			h%y J h%y J				g	ghyl		y y	ox
om		11	11	11					h%y J	h%y J					gh

f m%y J m%y J -%y J
f g/yl g-yl ogyl

f	f	f	f	f
	-%y J	r oH%P	x%y J	
	r%y J	r r o%P	r%y J	f f oH%y J
	r/%y J	r hh%P	r/%y J	f f o/%my J
				f f gryl
				f f f ggyl

Branch Panel: 1LSR1

Location: EM ELECT SWGR. C160
Supply From: T-1LSR1
Mounting: Surface
Enclosure: Type 1

Volts: 120/208 Wye
Phases: 3
Wires: 4

A.I.C. Rating: 65,000
Mains Type: MCB
Mains Rating: 100 A
MCB Rating: 100 A
Neutral Rating: 100.00%

r%y y y y J y %

	f	ff		ff							ff		ff	f	
r	y yly y r oh7y y r og		ohyl	r	r%y J h%y J						r	ohyl		y yly y r r g	o
g	y yly y r h47y y r rh		ohyl	r			r%y J r%y J				r	ohyl		y yly y r 4x7y y r H	4
H	y yly y r 4r		ohyl	r					h%y J	r%y J	r	ohyl		y yly y r go7y r gx	-
/	J % y r H4	r	ohyl	r	r%y J r%y J						r	ohyl	r	J % r%y y r H	x
m	J %y y y r-h	r	ohyl	r			h%y J h%y J				r	ohyl	r	J J % yly y y r hr	rh
rr	J %y y y %r-h	r	ohyl	r					h%y J	r%y J	r	ohyl		%y y	ro
rg			4hyl	r	g%y J r%y J						r	ohyl		%y y	r4
rH	%y y y			o			g%y J h%y J				r	ohyl			r-
r/			ohyl	r					h%y J	h%y J	r	ohyl			rx
rm			ohyl	r	h%y J h%y J						r	ohyl			oh
or			ohyl	r			h%y J h%y J				11	11	11		oo
og		11	11	11					h%y J	h%y J	11	11	11		o4
oH		11	11	11	h%y J h%y J										o-
o/		11	11	11			h%y J h%y J				g	ghyl		y y	ox
om		11	11	11					h%y J	h%y J					gh

f x%y J -%y J g%y J
f / gyl H%yl omyl

f	f	f	f	f
	r%y J	r r o%P	r%y J	
	r-%y J	r hh%P	r-%y J	f f r/%my J
				f f rx%my J
				f f H-yl
				f f f H-yl

r%y y 7y J y y J y y J y o%

Branch Panel: 1OPL1

Location: EM ELECT SWGR. C160
Supply From: MDP
Mounting: Surface
Enclosure: NEMA 1

Volts: 480/277 Wye
Phases: 3
Wires: 4

A.I.C. Rating: 65,000
Mains Type: MCB
Mains Rating: 225 A
MCB Rating: 150 A
Neutral Rating: 100.00%

	f	ff		ff							ff		ff	f	
r	yly y r H-7 r H 7 r ox7 y r oH		ohyl	r	r%y J g%y J						r	ohyl		yly r r g7 r oh7 7 6	o
g	yly y r H 7 r h47y 7 6		ohyl	r			g%y J g%y J				r	ohyl		yly r go7 r gx7 7 6	4
H	yly y r 4r7 r 4x7y 7 6		ohyl	r					g%y J	h%y J	r	ohyl		yly oh7 r ohx7 oho	-
/	yly yl y		ohyl	r	h%y J h%y J						r	ohyl		%y y y ohx	x
m			ohyl	r			h%y J h%y J				r	ohyl			rh
rr			ohyl	r					h%y J	h%y J	r	ohyl			ro
rg			ohyl	r	h%y J h%y J						r	ohyl			r4
rH			ohyl	r			h%y J h%y J				r	ohyl			r-
r/		11	11	11					h%y J	h%y J	11	11	11		rx
rm		11	11	11	h%y J h%y J						11	11	11		oh
or		11	11	11			h%y J h%y J				11	11	11		oo
og		11	11	11					h%y J	h%y J	11	11	11		o4
oH		11	11	11	h%y J h%y J										o-
o/		11	11	11			h%y J h%y J				g	ghyl		y y	ox
om		11	11	11					h%y J	h%y J					gh
gr			ohyl	r	h%y J h%y J						r	ohyl			go
gg			ohyl	r			h%y J h%y J				r	ohyl			g4
gH			ohyl	r					h%y J	h%y J	r	ohyl			g-
g/		11	11	11	h%y J h%y J										gx
gm		11	11	11			h%y J h%y J				g	ghyl		y y	4h
4r		11	11	11					h%y J	h%y J					4o

f r x%y J r x%y J r 4%y J
f -xyl -myl Hyl

f	f	f	f	f
	h%y J	-h%P	h%y J	
	r%y J	-h%P	h%y J	f f H %y J
	r-%y J	r oH%P	or%y J	f f 4r%gy J
	/%y J	r hh%P	x%y J	f f -oyl
	o%y J	r hh%P	o%y J	f f f Hnyl
	og%y J	/ r %P	r-%y J	

Branch Panel: 1OPR1

Location: EM ELECT SWGR. C160
Supply From: T-1OPR1
Mounting: Surface
Enclosure: Type 1

Volts: 120/208 Wye
Phases: 3
Wires: 4

A.I.C. Rating: 10,000
Mains Type: MCB
Mains Rating: 100 A
MCB Rating: 100 A
Neutral Rating: 100.00%

	f	ff		ff							ff		ff	f	
r	yly y y oho		ohyl	r	h%y J h%y J						r	ohyl		%	o
g	y % r %		ohyl	r			h%y J h%y J				r	ohyl		1 y r H7y 7my y	4
H	yly y y r hr		ohyl	r					h%y J	h%y J	r	ohyl		yly y y oho	-
/	yly y y oho		ohyl	r	h%y J h%y J						r	ohyl		y% y %	x
m	% r7y y r H		r Hyl	o			h%y J r%y J				r	ohyl		yly y y r hr	rh
rr									h%y J	h%y J					ro
rg	%y r H		r Hyl	o	h%y J h%y J						o	r Hyl		%y y r H	r4
rH	%y r H						h%y J h%y J								r-
r/	yly y r H		ohyl	r					r%y J	h%y J	o	r Hyl		%7y r H	rx
rm	y 7y %		ohyl	r	h%y J h%y J						r	ohyl		yly y r-o7y r-r7y r-h	oh
or	%y y		ohyl	r			r%y J h%y J								oo
og	%r h7y y r Hm		ohyl	o					h%y J	h%y J	o	ohyl		5-7/ 7%7y r-r7y r-h	o4
oH					h%y J h%y J										o-
o/			ohyl	r			h%y J h%y J				o	ohyl		%7my oh-7y ohg	ox
om			ohyl	r					h%y J	h%y J					gh
gr			ohyl	r	h%y J h%y J						r	ohyl			go
gg			ohyl	r			h%y J h%y J				r	ohyl			g4
gH			ohyl	r					h%y J	h%y J	r	ohyl			g-
g/		11	11	11	h%y J h%y J										gx
gm		11	11	11			h%y J h%y J				g	ghyl		y y	4h
4r		11	11	11					h%y J	h%y J					4o

f H%y J -%y J H%y J
f 4/ yl H yl 4xyl

f	f	f	f	f
	h%y J	-h%P	h%y J	
	r%y J	-h%P	h%y J	f f r x%y J
	/%y J	r hh%P	x%y J	f f r/%-y J
	o%y J	r hh%P	o%y J	f f Hyl
	-%y J	r hh%P	-%y J	f f f Hnyl

Distrib. Panel: MDP

Location: ELECT SWGR C161
Supply From: MDP
Mounting: Surface
Enclosure: NEMA 1

Volts: 480/277 Wye
Phases: 3
Wires: 4

A.I.C. Rating: 65,000
Mains Type: MCB
Mains Rating: 600 A
MCB Rating: 600 A
Neutral Rating: 100.00%

Notes:
Provide Distribution Panel Type Construction

CKT	Circuit Description	# of Poles	Trip Rating	Load	Remarks
1	T-1R1 / PANEL 1R1	3	150 A	41.9 kVA	
2	T-1R2 / PANEL 1R2	3	100 A	21.4 kVA	
3	ATS-OP/ Panel 1OPL1	3	150 A	51.6 kVA	
4	ATS-LS / Panel 1LSL1	3	100 A	25.6 kVA	
5	ATS-LR / 1LRM1	3	100 A	26.4 kVA	
6	AHU-1	3	80 A	51.1 kVA	
7	AHU-2	3	80 A	51.1 kVA	
8	Spare	3	100 A	0.0 kVA	
9	Spare	3	225 A	0.0 kVA	
10	FULLY PREPARED SPACE	3	100 A	0.0 kVA	
11	FULLY PREPARED SPACE	3	225 A	0.0 kVA	
12	SURGE PROTECTIVE DEVICE	3	30 A	0.0 kVA	
				269.1 kVA	
				324 A	

Load Classification	Connected Load	Demand Factor	Estimated...	Panel Totals	
Cooling	140.8 kVA	60.00%	84.5 kVA		
Heating	1.1 kVA	60.00%	0.7 kVA	**Total Conn. Load:**	269.1 kVA
Lighting	23.7 kVA	125.00%	29.7 kVA	**Total Est. Demand:**	204.1 kVA
Motor	35.7 kVA	112.17%	40.1 kVA	**Total Conn. Current:**	324 A
Other	21.0 kVA	100.00%	21.0 kVA	**Total Est. Demand...**	245 A
Receptacle	47.0 kVA	60.64%	28.5 kVA		

Notes:
1. PROVIDE LSI TYPE BREAKERS FOR MAIN AND ALL DISTRIBUTION BREAKERS.
2. PROVIDE SHUNT TRIP MAIN BREAKER.
3. PROVIDE SERVICE ENTRANCE RATED SWITCHBOARD.

Branch Panel: 1LRM1

Location: EM ELECT SWGR. C160
Supply From: MDP
Mounting: Surface
Enclosure: Type 1

Volts: 480/277 Wye
Phases: 3
Wires: 4

A.I.C. Rating: 65,000
Mains Type: MCB
Mains Rating: 100 A
MCB Rating: 100 A
Neutral Rating: 100.00%

	f	ff		ff							ff		ff	f	
r					H%y J g%y J										o
g	% 7y H		4hyl		g		H%y J g%y J				g	ohyl		%7y %i	4
H									H%y J	g%y J					-
/		11	11	11	h%y J h%y J						11	11	11		x
m		11	11	11			h%y J h%y J				11	11	11		rh
rr		11	11	11					h%y J	h%y J	11	11	11		ro
rg		11	11	11	h%y J h%y J						11	11	11		r4
rH		11	11	11			h%y J h%y J				11	11	11		r-
r/		11	11	11					h%y J	h%y J	11	11	11		rx
rm		11	11	11	h%y J h%y J						11	11	11		oh
or		11	11	11			h%y J h%y J				11	11	11		oo
og		11	11	11					h%y J	h%y J	11	11	11		o4
oH		11	11	11	h%y J h%y J						11	11	11		o-
o/		11	11	11			h%y J h%y J				11	11	11		ox
om		11	11	11					h%y J	h%y J	11	11	11		gh

f x%y J x%y J x%y J
f gyl gyl gyl

f	f	f	f	f
	o-%y J	r r-%P	gh%y J	
				f f o-%y J
				f f gh%y J
				f f gyl
				f f f g/yl

1LSL1	1OPL1	MDP
1LSR1	1OPR1	1LRM1
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Wayne E Allred

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SCALE

No.	Description	Date
	ISSUED FOR PERMIT	7-24-20

REVISIONS

DRAWN BY	O DORIA
APPROVED BY	W ALLRED
CHECKED BY	L WOLFE
DATE	JULY 24, 2020

TITLE

PANEL SCHEDULES

PROJECT NO. 50101397

E-501

SHEET NO.

DESTROY AFTER USE