

The Mayo Building 407 South Calhoun Street Tallahassee, Florida 32399-0800

FLORIDA DEPARTMENT OF AGRICULTURE AND CONSUMER SERVICES COMMISSIONER ADAM H. PUTNAM

September 11, 2018

ADDENDUM 1

TO: Vendors

FROM: Vianka Colin, Purchasing Director

RE: INVITATION TO BID NUMBER ITB/PI-18/19-18

PURCHASE, DELIVERY AND INSTALLATION OF EMERGENCY GENERATORS

This addendum is to provide all potential bidders with clarifications and answers to questions received in reference to Invitation to Bid ITB/PI-18/19-18. **Deletions are struck through, and additions are highlighted.**

NOTES:

- 1. ATS for BIO1 shall be moved to the exterior of electrical room wall, just east of the exterior door.
- 2. The ATS at Doyle Conner building will not need service rating.
- 3. Doyle Conner Building IT Room A124 will need separate circuits for the air handler and condensing unit.
- 4. Drawings:
 - a. E2.0 ELECTRICAL BIO 1 PLAN Replace sheet in its entirety with the attached 24"x36" sheet dated September 10, 2018.
 - b. E2.1 ELECTRICAL PLANT PATHOLOGY PLAN Replace sheet in its entirety with the attached 24" x 36" sheet dated September 10, 2018.
 - c. E2.3 ELECTRICAL DOYLE CONNER PLAN Replace sheet in its entirety with the attached 24" x 36" sheet dated September 10, 2018.

Question / Answer

1. Will there be a staging area available?

Yes. The staging area will be coordinated with the awarded contractor.

2. Will the contractor be able to leave materials and equipment on site securely?

Yes.

3. Is there a fence?

Yes.

ADDENDUM 1

September 11, 2018 Page 2

4. Should the contractors consider facilitating a porta-potty on-site?

Yes. Contractors shall provide their own temporary restrooms.

5. Is a background check required for any of the contractors/subcontractors?

No.

6. Are there existing generator units?

No, not on the buildings identified in the ITB.

7. Does the job require new gas feeds?

No.

8. What is the allowable timeframe to conduct work on-site?

Work is to be conducted during normal business hours, 8:00 a.m. – 5:00 p.m., Monday-Friday. Accommodations may be made with the owner for any hours outside of normal business hours.

9. On the reference/past performance form, please confirm what the single project bonding capacity should be (question #8 on form). It currently states \$2,000,000, but this seems excessive for this size project. Please clarify.

Due to the size and nature of the project, it is allowable to adjust the performance bonding capacity to \$1,500,000.

10. Do we have a bio-refrigeration lab?

Yes.

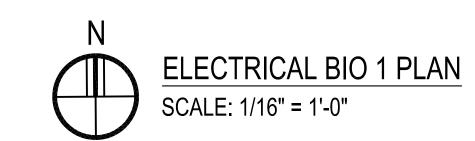
11. Are there any ID/ background checks?

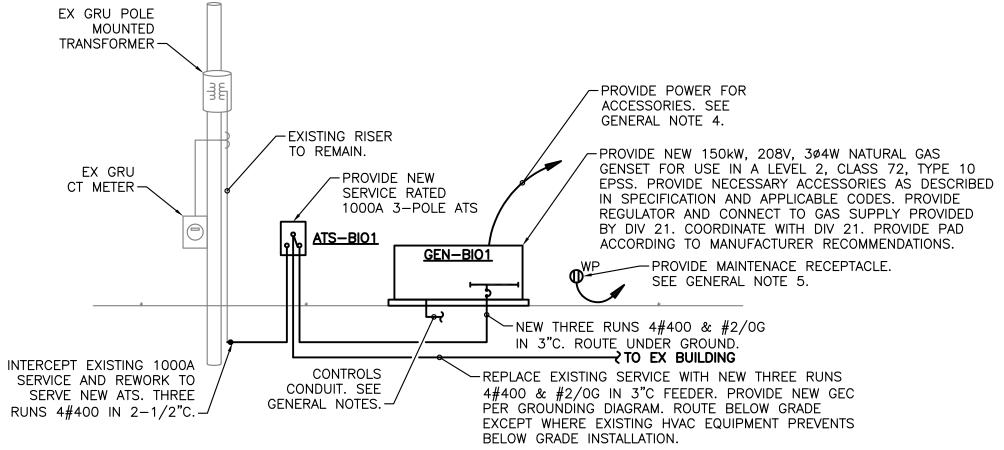
No. However, all visitors must obtain a contractor badge from the front desk.

12. Do the other buildings have a separate address?

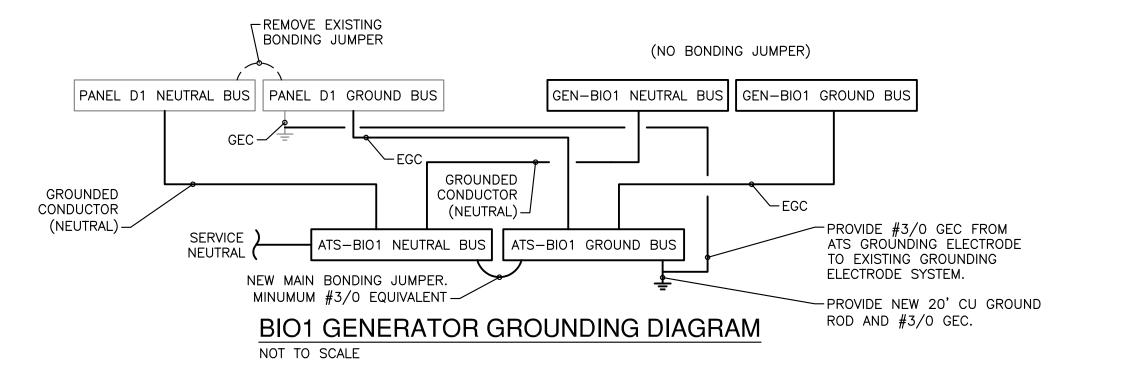
No.

To the extent this addendum gives rise to a protest, failure to file a protest within the time prescribed in Section 120.57(3), Florida Statutes, shall constitute a waiver of proceedings under Chapter 120, Florida Statutes. All other terms, conditions and specifications of this Invitation to Bid will remain the same. If you have any questions regarding this addendum, please feel free to contact this office at (850) 617-7181.





BIO1 SINGLE LINE DIAGRAM NOT TO SCALE



GENERAL NOTES

- 1. ALL CIRCUITS AND SYSTEMS OUTSIDE OF THE PROJECT AREA ARE TO REMAIN IN SERVICE AT ALL TIMES THROUGHOUT THE WORK. COORDINATE ANY NECESSARY OUTAGES WITH OWNER PRIOR TO PROCEEDING.
- 2. MAINTAIN FUNCTIONALITY OF ALL EXISTING FIXTURES AND EQUIPMENT.
- 3. THIS DESIGN IS NOT INTENDED FOR LIFE SAFETY USE. EXISTING LIFE SAFETY SYSTEMS, INCLUDING EMERGENCY LIGHTING PROVISIONS, ARE NOT INTENDED TO BE MODIFIED OR MADE UNNECESSARY BY THIS DESIGN.
- 4. GENSET SHALL BE A PACKAGED EPS WITH ALL REQUIRED COOLING, BATTERIES, BATTERY CHARGERS, LOCAL ANNUNCIATION, ETC. SYSTEM SHALL COMPLY WITH 2014 NEC 702 (OPTIONAL STANDBY SYSTEMS) AND 2013 NFPA 110 FOR THE INDICATED LEVEL, CLASS, AND TYPE. COORDINATE NECESSARY CIRCUITS AND PROVIDE POWER VIA NEW CIRCUIT(S) FROM NEAREST 120V PANELBOARD.
- 5. PROVIDE NEW 20A WEATHER RESISTANT MAINTENANCE RECEPTACLE WITHIN 25' OF GENERATOR, POWERED VIA NEW CIRCUIT FROM NEAREST 120V PANELBOARD.
- 6. PROVIDE 2"C FOR CONTROLS WIRING FROM GENERATOR TO ATS, AND FROM ATS TO ABOVE ACCESSIBLE CEILING WITHIN BUILDING.

LOAD NOTE - BIO 1 GENERATOR

12 MONTHS OF OF UTILITY DEMAND DATA WAS GATHERED IN ACCORDANCE WITH 2014 NEC 220.87. THE PEAK DEMAND WAS 92.9kW. NO ADDITIONAL LOADS ARE BEING ADDED BY THIS PROJECT.

92.9kW * 125% = 116.1kW

THE PROPOSED 150kW GENERATOR IS SUFFICIENT FOR THE OPTIONAL STANDBY LOAD, AS CALCULATED PER 2014 NEC 702.4(B) AND 220.87.

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FL License EB-31501

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p.352.745.3991

Andrew P. McCaddin PE - 83318

Doyle Conner Generator Design

Florida Department of Agriculture and Consumer Services

1911 SW 34th Street Gainesville, FL 32608

PROJECT NUMBER: 18037

ISSUE:
100% Construction
Documents
ISSUE DATE:

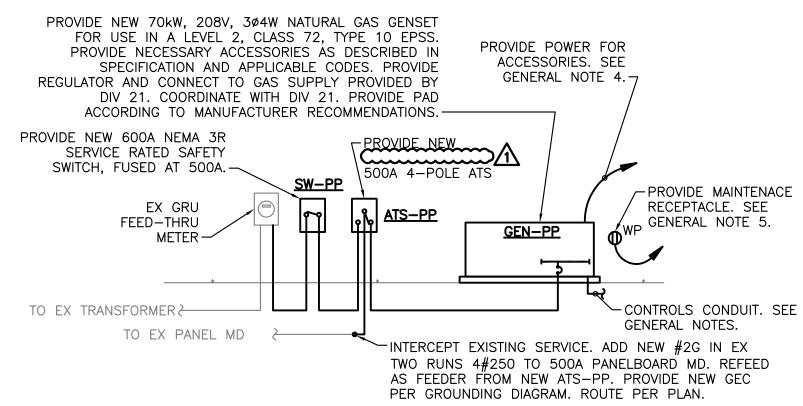
May 25, 2018

APM
_____SHEET TITLE:

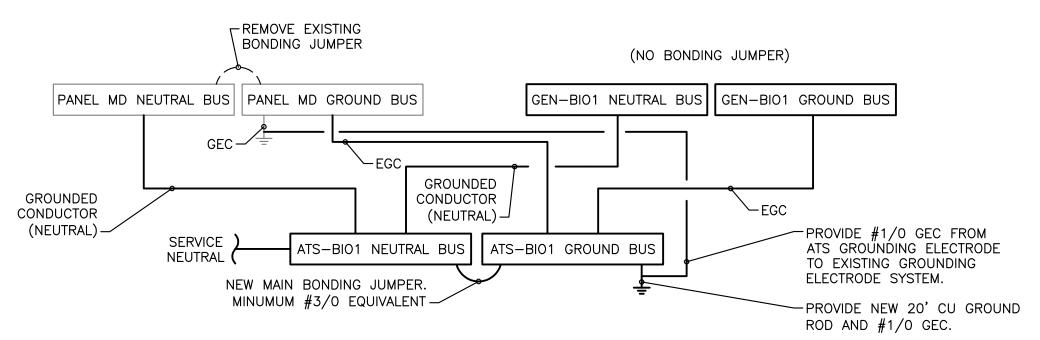
CHECKED BY:

ELECTRICAL BIO 1 PLAN

E2.0



PLANT PATHOLOGY SINGLE LINE DIAGRAM NOT TO SCALE



PLANT PATHOLOGY GENERATOR GROUNDING DIAGRAM

NOT TO SCALE

GENERAL NOTES

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- 5. PROVIDE NEW 20A WEATHER RESISTANT MAINTENANCE RECEPTACLE WITHIN 25' OF GENERATOR, POWERED VIA NEW CIRCUIT FROM NEAREST 120V
- 6. PROVIDE 2"C FOR CONTROLS WIRING FROM GENERATOR TO ATS, AND FROM ATS TO ABOVE ACCESSIBLE CEILING WITHIN BUILDING.

LOAD NOTE - PLANT PATHOLOGY GENERATOR

12 MONTHS OF OF UTILITY DEMAND DATA WAS GATHERED IN ACCORDANCE WITH 2014 NEC 220.87. THE PEAK DEMAND WAS 92.9kW. NO ADDITIONAL LOADS ARE BEING ADDED BY THIS PROJECT. ADDITIONALLY, SMALL LOADS WILL BE SERVED AT A NEARBY BUILDING.

38.7 kW * 125% = 48.4 kW 120 V FREEZERS = 5.0 kW $\frac{\text{HVAC}}{\text{TOTAL}} = \frac{3.0 \text{kW}}{56.4 \text{kW}}$

THE PROPOSED 70kW GENERATOR IS SUFFICIENT FOR THE OPTIONAL STANDBY LOAD, AS CALCULATED PER 2014 NEC 702.4(B) AND 220.87.

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Andrew P. McCaddin

PE - 83318

Doyle Conner Generator Design

Florida Department of Agriculture and Consumer Services 1911 SW 34th Street Gainesville, FL 32608

PROJECT NUMBER: 18037

REVISIONS:

REVI 09 10 2018

ISSUE: 100% Construction Documents

ISSUE DATE: May 25, 2018

CHECKED BY:

SHEET TITLE: ELECTRICAL PLANT PATHOLOGY PLAN

SHEET NUMBER:

				P	ANELBO	DARD S	CHEDU	JLE: DC	IT				
СКТ	LOAD		TRIP	LOAD φ	TRIP		LOAD	CK					
#	DESCRIPTION	POLES	AMPS	A (kVA)	B (kVA)	C (kVA)	A (kVA)	B (kVA)	C (kVA)	AMPS	POLES	DESCRIPTION	#
1	RCPT - A124 UPS	1	20	2.2			-			-	1	SPACE ONLY	2
3	RCPT - A124 UPS	1	20		2.2			-		-	1	SPACE ONLY	4
5	RCPT - A124 UPS	1	20			2.2			-	-	1	SPACE ONLY	6
7	RCPT - A124 UPS	1	20	2.2			-			-	1	SPACE ONLY	8
9	RCPT - A124 UPS	1	20		2.2			-		-	1	SPACE ONLY	10
11	RCPT - E108 UPS	1	20			1.5			-	-	1	SPACE ONLY	12
13	RCPT - E108 UPS	1	20	1.5			ı			ī	1	SPACE ONLY	14
15	SPARE	1	20		=			=		ī	1	SPACE ONLY	16
17	SPARE	1	20			-			-	ı	1	SPACE ONLY	18
19	SPARE	1	20	-			ı			ī	1	SPACE ONLY	20
21	SPARE	1	20		=			=		ī	1	SPACE ONLY	22
23	SPARE	1	20			-			-	ī	1	SPACE ONLY	24
25	SPARE	1	20	-			ı						26
27	SPARE	1	20		-			-		60	3	SPD	28
29	SPARE	1	20			-			-				30
LOAD SU	MMARY	-											
				Αφ		Βφ		Сф					
PHASE TOTALS:				5.9 kVA		4.4 kVA		3.7 kVA					
				49.2 A		36.7 A		30.8 A					

49.2 A

14.0 kVA

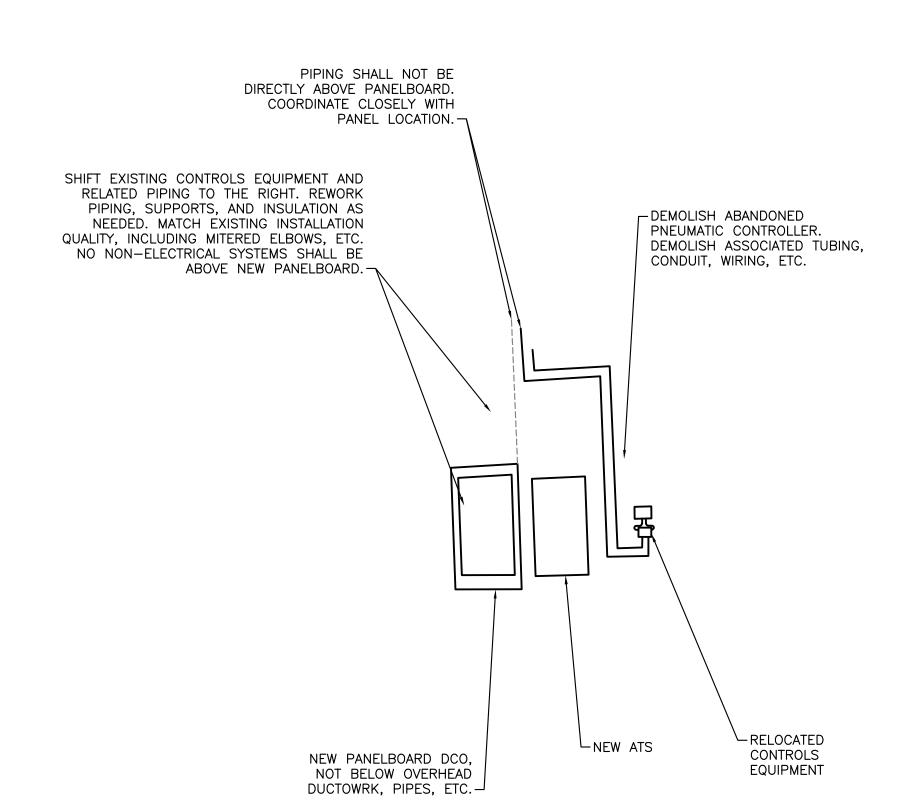
38.9 A

HIGHEST PHASE AMPS:

CONNECTED LOAD:

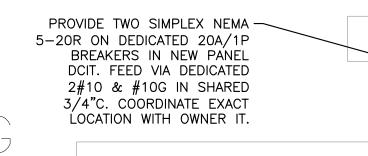
AMPS PER PHASE:

				P	ANELB	OARD S	CHEDU	JLE: DC	О				
СКТ	LOAD		TRIP	LOAD φ	LOAD φ	LOAD φ	LOAD φ	LOAD φ	LOAD φ	TRIP		LOAD	СКТ
#	DESCRIPTION	POLES	AMPS	A (kVA)	B (kVA)	C (kVA)	A (kVA)	B (kVA)	C (kVA)	AMPS	POLES	DESCRIPTION	#
1	SPARE	1	20	-			-			-	1	SPACE ONLY	2
3	SPARE	1	20		-			-		ı	1	SPACE ONLY	4
5	SPARE	1	20			-			-	_	1	SPACE ONLY	6
7	SPARE	1	20	-			_			_	1	SPACE ONLY	8
9	SPARE	1	20		-			-		_	1	SPACE ONLY	10
11	SPARE	1	20			-			-	-	1	SPACE ONLY	12
13	SPARE	1	20	-			-			-	1	SPACE ONLY	14
15	SPARE	1	20		-			-		_	1	SPACE ONLY	16
17	SPARE	1	20			-			-	-	1	SPACE ONLY	18
19	SPARE	1	20	-			-			-	1	SPACE ONLY	20
21	SPARE	1	20	~~~~	~~~	~~~~		-		-	1	SPACE ONLY	22
23	IT ROOM A124 HVAC AH	1				2.08			-	-	1	SPACE ONLY	24
25		ļ	25	2.08		3	-			-	1	SPACE ONLY	26
27	FACP (LOCKABLE)		20		1.5	~~~		-		-	1	SPACE ONLY	28
29	DRY FIRE SUPRESSION SYSTEM	1	20			1.5			-	-	1	SPACE ONLY	30
31	LAB PP120 HVAC	1	20	1.5			5.9			100	3	PANEL DCIT	32
33	LAB PP120 HVAC	1	20	200000	1.5			4.4					34
35	IT ROOM A124 HVAO CU	1	25			1.248			3.7				36
37	11 KOOW A124 11VAGCO		25	1.248		 }	-						38
39	IT ROOM E108 HVAC	1	15		0.7			-		60	3	SPD	40
41			15			0.7			-				42
LOAD SUMMARY PHASE TOTALS:				Αφ 10.7 kVA		Βφ 8.1 kVA		Cφ 9.2 kVA					
l	HIGHEST PHASE AMPS: CONNECTED LOAD: AMPS PER PHASE:			89.4 A 89.4 A 28.1 kVA 77.9 A		67.5 A		76.9 A					



DOYLE CONNER PANEL LOCATION SKETCH NOT TO SCALE

DOYLE CONNER BUILDING



RE-FEED EXISTING E108 MINI-SPLIT
UNIT VIA 2#12 IN 1/2"C FROM
NEW 15A/2P CB IN NEW PANEL
DCO. VERIFY INTERIOR CASSETTE IS

POWERED VIA OUTDOOR UNIT.

EX IT

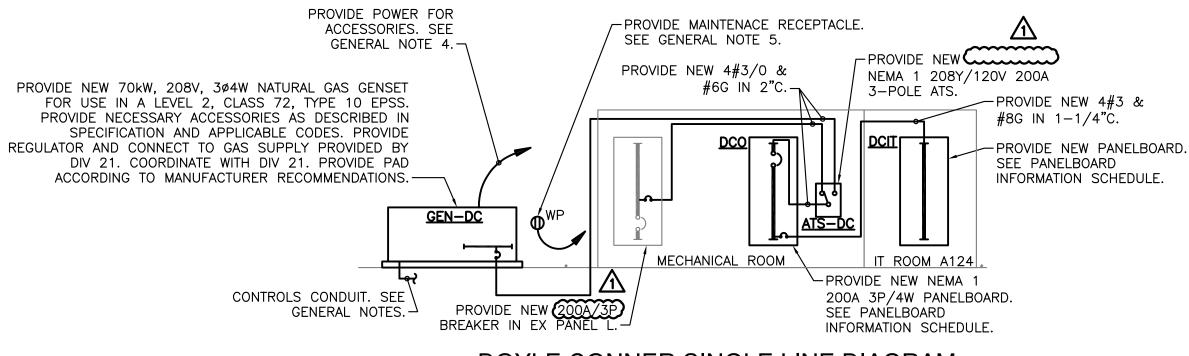
ROOM E108

NEW PANELBOARD DCIT. -PROVIDE #6 BOND TO EXISTING GROUND BAR. RE-FEED EXISTING A124 SPLIT
UNIT CU VIA 2#12 IN 1/2"C PROVIDE SIX SIMPLEX NEMA -5-20R ON DEDICATED 20A/1P BREAKERS IN NEW PANEL FROM NEW 25A/2P CB IN NEW PANEL DCO. VERIFY DCIT. FEED VIA DEDICATED 2#12 & #12G IN 1/2"C. ROOM COORDINATE EXACT LOCATION INTERIOR UNIT IS POWERED A124 WITH OWNER IT. VIA OUTDOOR UNIT. COORDINATE ALL WORK IN THIS ROOM WITH OWNER IT. - NEW GENERATOR. SEE RE-FEED EXISTING A124 SPLIT SINGLE LINE DIAGRAM. UNIT AH VIA 2#10 IN 1/2"C FROM NEW 25A/2P CB IN NEW PANEL DCO. VERIFY INTERIOR UNIT IS POWERED VIA OUTDOOR UNIT. ←EX PANEL L RE-FEED EXISTING PP122 MINI-SPLIT NEW ATS-DC AND PANEL DCO UNIT VIA 2#12 IN 1/2"C FROM NEW IN EX MECHANICAL ROOM 20A/2P CB IN NEW PANEL DCO. VERIFY INTERIOR CASSETTE IS RE-FEED EXISTING FACP & -POWERED VIA OUTDOOR UNIT. FIRE SUPRESSION PANEL VIA NEW FEEDERS. SEE SINGLE LINE TWO 2#12 IN 1/2"C FROM DIAGRAM AND GENERATOR OFFICE TWO NEW 20A/2P CB IN NEW GROUNDING DIAGRAM. PP120 PROVIDE TWO NEW NEMA 5-20R DUPLEX -RECEPTACLES ON DEDICATED 20A 120V CIRCUITS FROM NEW PANEL DCO. COORDINATE LOCATIONS WITH FREEZERS. PROVIDE FIVE NEW NEMA 5-20R DUPLEX RECEPTACLES

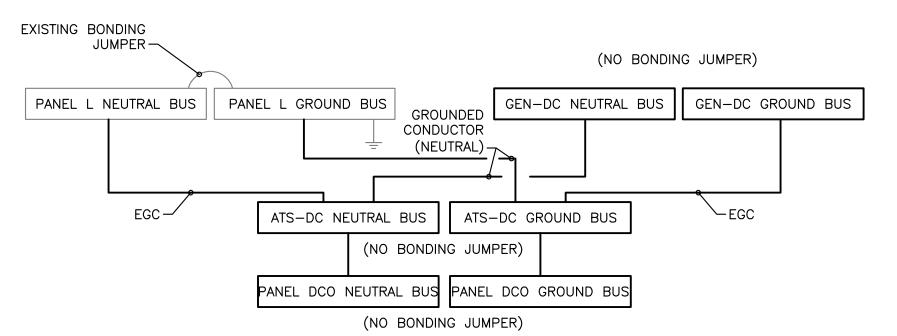
ELECTRICAL DOYLE CONNER PLAN

SCALE: 1/16" = 1'-0"

EX COURTYARD



DOYLE CONNER SINGLE LINE DIAGRAM NOT TO SCALE



DOYLE CONNER GENERATOR GROUNDING DIAGRAM NOT TO SCALE

GENERAL NOTES

ON DEDICATED 20A 120V CIRCUITS FROM NEW PANEL

DCO. COORDINATE LOCATIONS WITH FREEZERS. (NOTE: TWO RECEPTACLES ARE FOR FREEZERS RELOCATED FROM

PP120. COORDINATE LOCATION WITH OWNER.) PP122

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LOAD NOTE - DOYLE CONNER GENERATOR

(91 A @ 208V/3ø)

THE FOLLOWING EXISTING LOADS ARE BEING PLACED ON THE GENERATOR:

 FIRE ALARM
 2.0 kVA

 FM200 SYSTEM
 2.0 kVA

 2200VA UPS x5
 11.0 kVA

 1500VA UPS x1
 1.5 kVA

 HVAC x3
 7.5 kVA

 FREEZERS x5
 8.5 kVA

 TOTAL
 32.5 kVA

GENERATOR AND EQUIPMENT HAS BEEN SIZED TO ALLOW FOR FUTURE LOADS, AND TO SIMPLIFY MAINTENANCE BY USING SIMILAR GENERATOR TO OTHER BUILDINGS.

mitchell + gulledge

engineering

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ELECTRICAL DOYLE CONNER PLAN

SHEET NUMBER: