

25 W. Yavapai Rd. Tucson, Arizona 85705



1 PARTIAL ELECTRICAL SITE PLAN
1" = 20'-0"



ELECTRICAL SITE NOTES

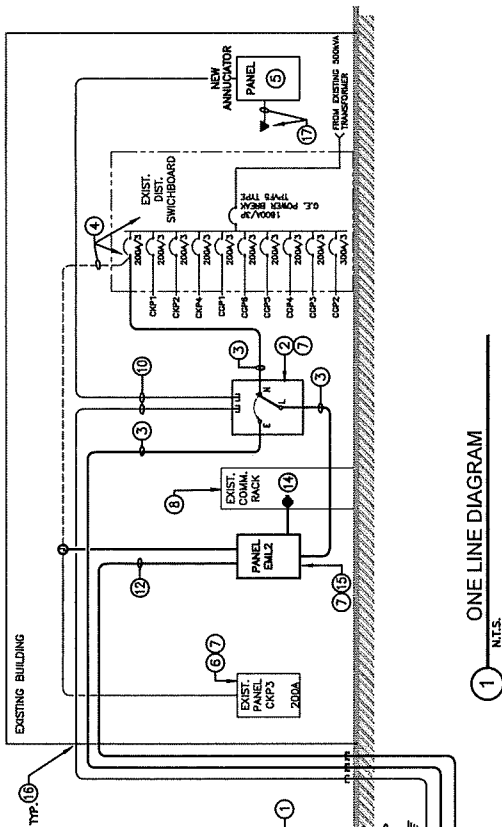
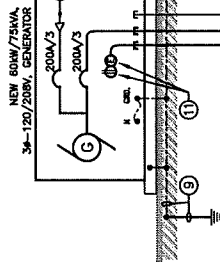
- LOCATE AND PROTECT UNDERGROUND UTILITIES PRIOR TO START OF WORK. REPAIR OF DAMAGED UTILITIES SHALL BE AT CONTRACTOR EXPENSE.
- CUT, PATCH, AND RESTORE ALL FINISHES DISTURBED BY WORK. PATCHES SHALL BE MATCHED TO EXISTING SURFACES TO MATCH THOSE EXISTING PRIOR TO TRENCHING ACTIVITIES.
- ALL CONDUIT SHALL BE CONCEALED IN BUILDING.
- ALL PENETRATIONS THROUGH EXTERIOR WALL AND ROOFS SHALL BE SLEAVED, FLASHED AND SEALED WATERPROOF. ALL PENETRATIONS THROUGH EXTERIOR WALLS WHERE WALL PENETRATIONS ARE EXPOSED.
- ALL CONDUCTORS INSTALLED AT EXTERIOR AND/OR ABOVE ROOF SHALL BE THIN OR XHHW-2 TYPE.
- ELECTRICAL SITE FROM ONLINE SOURCE, SITE VISIT AND LIMITED RECORD DRAWINGS, VERIFY ALL LENGTHS/DIMENSIONS ON SITE.

ELECTRICAL KEYNOTES THIS SHEET ONLY

- NEW 60MW/75KVA, 277/480V-3P-4W EMERGENCY NATURAL GAS GENERATOR. OBTAIN APPROVED FOOTPRINT WITH NED WORKING CLEARANCES BEFORE START ANY WORK. REFER TO ONE LINE DIAGRAM ON SHEET E1.
- NEW 60MW/75KVA, 120/208V-3P-4W EMERGENCY NATURAL GAS GENERATOR. OBTAIN APPROVED FOOTPRINT WITH NED WORKING CLEARANCES BEFORE START ANY WORK. REFER TO ONE LINE DIAGRAM ON SHEET E2.
- PROTECTION OF BUILDING INTERIOR ELECTRICAL EQUIPMENT, VERIFY ALL EXISTING CONDITIONS.
- EXISTING TPO TRANSFORMER TO REMAIN, LOCATE AND PROTECT EXISTING U.G. PRIMARY AND SECONDARY FEDERS.
- PROVIDE REMEDIABLE STEEL CONCRETE FILLED BOLLARDS FOR EQUIPMENT PROTECTION, PROVIDE NED WORKING CLEARANCES.



NO.	DATE	DESCRIPTION
1	12/15/2017	ISSUED FOR PERMIT



ONE LINE DIAGRAM

SHORT CIRCUIT CONSIDERATIONS

EXISTING 1600A-120/208V-3 ϕ -4W SWITCHBOARD/500KVA
TRANSFORMER AIC RATING IS 50,000AIC.
NEW 208V ATS RATING IS 42 KAIC.
NEW 208V PANEL RATING IS 22KAIC

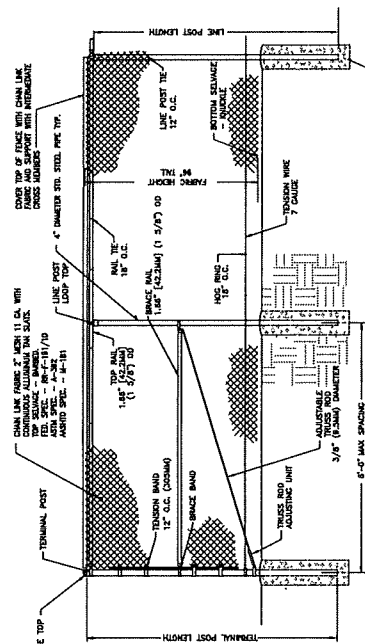
LOAD SUMMARY

W PANEL "EML2"	=	38 kVA
FUTURE	=	15 kVA
TOTAL	=	53 kVA

53 KVA / 45 KW OR 147A AT 208V-3 ϕ -4W, LOAD IS ADEQUATE FOR NEW 50KW / 75KVA GENSET.

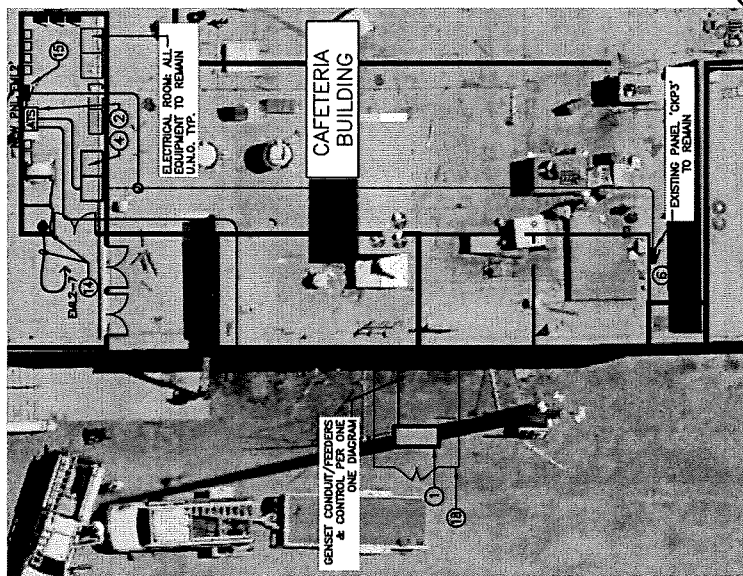
○ ELECTRICAL KEYNOTES THIS SHEET ONLY

1. NEW GROUNDING, 120/208V GROUNDING SYSTEM, COORDINATE WITH ELECTRICAL CONTRACTOR WITH HOUSEKEEPING, CO. COORDINATE WITH EXISTING UTILITIES (NATURAL GAS, WATER, DOWNSPOUTS, PULLBOXES), PROVIDE FOOTPRINT SHAW DRAWING WITH WORKING CLEARANCES FOR APPROVAL BEFORE START OF WORK.
2. NEW 200A 208V-3-4 POLE AUTOMATIC TRANSFER SWITCH (ATS) WITH SOLID NEUTRAL REMORK EXISTING WALL CONDUITS TO ALLOW NEW ATS INSTALLATION.
3. NEW FEEDER (4) #3/0 CU, (1) #1 CU GRD. 2".
4. EXISTING 1400A-34-4W-27/400V SWITCHBOX TO REMAIN, INTERCEPT EXISTING FEEDER TO PANEL, "CPK3" AND EXTEND TO NEW "EAL2" AS SHOWN, PROVIDE NEW ID LABEL "PANEL, "EAL2" VIA ATS SIMILAR TO EXISTING.
5. NEW ANNUNCIATOR PANEL.
6. EXISTING 200A-34-4W, 120/208V PANEL, "CPK3" TO REMAIN REFER TO PANEL SCHEDULE, PROVIDE NEW RED PLACARD.
7. PROVIDE "CAUTION, TWO SOURCES OF POWER" LABELS PER REC.
8. EXISTING TELECOMMUNICATIONS RACK.
9. NEW (2) "2"X10"ET SHEETPLAST STEEL #2 GROUND RODS AT OPPOSITE PAIR CORNER PER DETAIL 2. THIS CORNER, PROVIDE #2 CU BOND TO EACH ROD, GENSET GRD. LUG, CONCRETE PAD REBAR, PROVIDE EXOTHERMIC WELD U.G. CONNECTIONS.
10. PROVIDE 1" FOR CONTROL/SIGNAL WIRING PER GENSET MFL.
11. PROVIDE 208V-114-30A CIRCUIT TO GENSET BLACK HEATER. PROVIDE W/F/GFCI RECEPTACLE FOR GENSET BATTERY CHARGER.
12. 12" T.C. WITH (2) #10 CU (208V-1A), (1) #10 CU GRD.
13. FOR PORTABLE LOAD BANK CONNECTIONS.
14. PROVIDE NEW 20A 120V CU LUG, RECEPTACLE WITH INTEGRAL SPD AND DERATED 20A/120V CIRCUIT ADJUNCT TO EXISTING RACK SUPPORTED UPS. COORDINATE WITH OWNER.
15. NEW 200A-120/208V-3-4W PANEL, "EAL2" PER PANEL SCHEDULE REMORK EXISTING WALL CONDUITS TO ALLOW NEW PANEL INSTALLATION.
16. ALL PENETRATIONS THROUGH EXTERIOR WALL AND ROOF'S SHALL BE SLEAVED PER DETAIL 3.5. PROVIDE 2" MIN. SLEEVES, PROVIDE ESCUTCHION PLATES WHERE WALL PENETRATIONS ARE EXPOSED.
17. PROVIDE EDCS CONNECTION THROUGH BACKSET SYSTEM PER OWNER DIRECTIONS. COORDINATE ALL REQUIREMENTS.
18. PROVIDE NEW CHAIN LINK FENCE PER DETAIL 3 THIS SHEET.



CHAIN LINK FENCE DETAIL

NOTE: PROVIDE HINGED GATE PANELS PER PLAN.



PARTIAL ELECTRICAL PLAN

3 $1/8" = 1'-0"$

[illegible]

AMPHITEATER PUBLIC SCHOOLS
AMPHITEATER HIGH SCHOOL
IT GENERATORS
125 W. Vawpelt Rd. Tucson, Arizona 85705

OF PARTIAL ELECTRICAL PLAN
AND ONE LINE DIAGRAM

E2



REV.	DATE	DESCRIPTION
1	01/15/2020	ISSUED FOR PERMIT
2	02/10/2020	REVISED BASED ON COMMENTS
3	03/05/2020	REVISED BASED ON COMMENTS
4	04/01/2020	REVISED BASED ON COMMENTS
5	05/01/2020	REVISED BASED ON COMMENTS
6	06/01/2020	REVISED BASED ON COMMENTS
7	07/01/2020	REVISED BASED ON COMMENTS
8	08/01/2020	REVISED BASED ON COMMENTS
9	09/01/2020	REVISED BASED ON COMMENTS
10	10/01/2020	REVISED BASED ON COMMENTS
11	11/01/2020	REVISED BASED ON COMMENTS
12	12/01/2020	REVISED BASED ON COMMENTS

AMPHITHEATER PUBLIC SCHOOLS
IT GENERATORS
125 W. VANDERBILT RD., TUCSON, ARIZONA 85705

PANEL SCHEDULES

E3

LOCKOUT - TAGOUT - TESTOUT

NEW

PANEL NAME: EMH

TYPE: EATON

125 A BUS, 125 A. MAIN BREAKER

LOCATION: ELECTRICAL RM 418

277/480 VOLTS, 3 PHASE, 4 WIRE

10,000 MINIMUM A.L.C. RATING

ENCLOSURE: NEMA 1

MOUNTING:

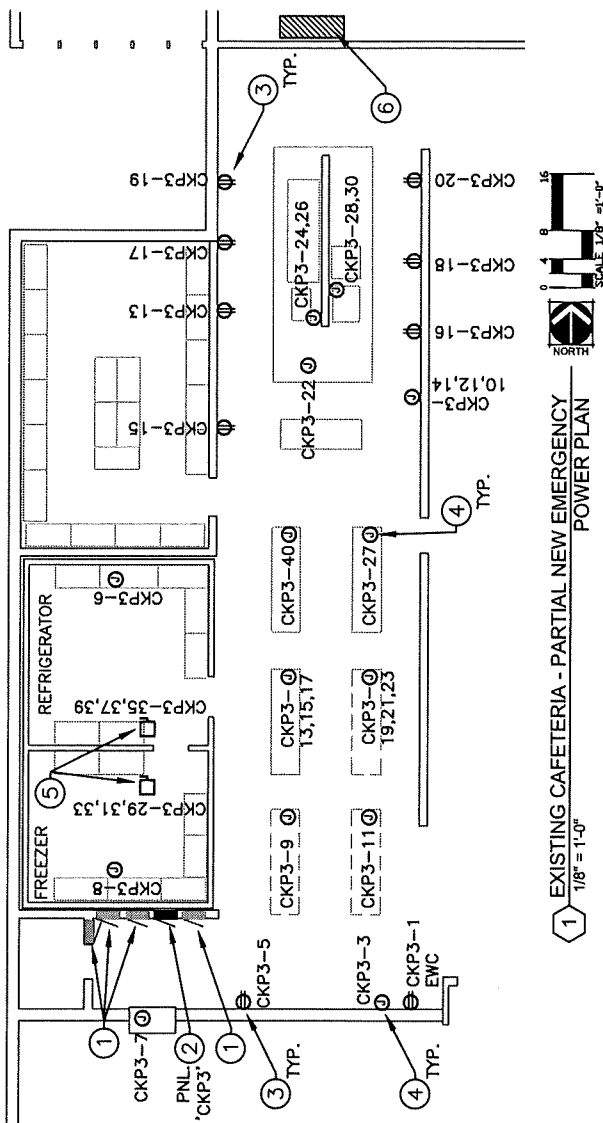
☒ FLUSH
☐ SURFACE

CIRCUIT	DESCRIPTION	LOAD (IN KVA)			CIRCUIT	DESCRIPTION	LOAD (IN KVA)		
		A	B	C			A	B	C
1	RECEIVER	1.0	1.0	1.0	11	RECEIVER	1.0	1.0	1.0
2	RECEIVER	1.0	1.0	1.0	12	RECEIVER	1.0	1.0	1.0
3	RECEIVER	1.0	1.0	1.0	13	RECEIVER	1.0	1.0	1.0
4	RECEIVER	1.0	1.0	1.0	14	RECEIVER	1.0	1.0	1.0
5	RECEIVER	1.0	1.0	1.0	15	RECEIVER	1.0	1.0	1.0
6	RECEIVER	1.0	1.0	1.0	16	RECEIVER	1.0	1.0	1.0
7	RECEIVER	1.0	1.0	1.0	17	RECEIVER	1.0	1.0	1.0
8	RECEIVER	1.0	1.0	1.0	18	RECEIVER	1.0	1.0	1.0
9	RECEIVER	1.0	1.0	1.0	19	RECEIVER	1.0	1.0	1.0
10	RECEIVER	1.0	1.0	1.0	20	RECEIVER	1.0	1.0	1.0
21	RECEIVER	1.0	1.0	1.0	22	RECEIVER	1.0	1.0	1.0
23	RECEIVER	1.0	1.0	1.0	24	RECEIVER	1.0	1.0	1.0
25	RECEIVER	1.0	1.0	1.0	26	RECEIVER	1.0	1.0	1.0
27	RECEIVER	1.0	1.0	1.0	28	RECEIVER	1.0	1.0	1.0
29	RECEIVER	1.0	1.0	1.0	29	RECEIVER	1.0	1.0	1.0
30	RECEIVER	1.0	1.0	1.0	30	RECEIVER	1.0	1.0	1.0
31	RECEIVER	1.0	1.0	1.0	31	RECEIVER	1.0	1.0	1.0
32	RECEIVER	1.0	1.0	1.0	32	RECEIVER	1.0	1.0	1.0
33	RECEIVER	1.0	1.0	1.0	33	RECEIVER	1.0	1.0	1.0
34	RECEIVER	1.0	1.0	1.0	34	RECEIVER	1.0	1.0	1.0
35	RECEIVER	1.0	1.0	1.0	35	RECEIVER	1.0	1.0	1.0
36	RECEIVER	1.0	1.0	1.0	36	RECEIVER	1.0	1.0	1.0
37	RECEIVER	1.0	1.0	1.0	37	RECEIVER	1.0	1.0	1.0
38	RECEIVER	1.0	1.0	1.0	38	RECEIVER	1.0	1.0	1.0
39	RECEIVER	1.0	1.0	1.0	39	RECEIVER	1.0	1.0	1.0
40	RECEIVER	1.0	1.0	1.0	40	RECEIVER	1.0	1.0	1.0
41	RECEIVER	1.0	1.0	1.0	41	RECEIVER	1.0	1.0	1.0
42	RECEIVER	1.0	1.0	1.0	42	RECEIVER	1.0	1.0	1.0
43	RECEIVER	1.0	1.0	1.0	43	RECEIVER	1.0	1.0	1.0
44	RECEIVER	1.0	1.0	1.0	44	RECEIVER	1.0	1.0	1.0
45	RECEIVER	1.0	1.0	1.0	45	RECEIVER	1.0	1.0	1.0
46	RECEIVER	1.0	1.0	1.0	46	RECEIVER	1.0	1.0	1.0
47	RECEIVER	1.0	1.0	1.0	47	RECEIVER	1.0	1.0	1.0
48	RECEIVER	1.0	1.0	1.0	48	RECEIVER	1.0	1.0	1.0
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55	RECEIVER	1.0	1.0	1.0	55	RECEIVER	1.0	1.0	1.0
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61	RECEIVER	1.0	1.0	1.0	61	RECEIVER	1.0	1.0	1.0
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74	RECEIVER	1.0	1.0	1.0	74	RECEIVER	1.0	1.0	1.0
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82	RECEIVER	1.0	1.0	1.0	82	RECEIVER	1.0	1.0	1.0
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88	RECEIVER	1.0	1.0	1.0	88	RECEIVER	1.0	1.0	1.0
89	RECEIVER	1.0	1.0	1.0	89	RECEIVER	1.0	1.0	1.0
90	RECEIVER	1.0	1.0	1.0	90	RECEIVER	1.0	1.0	1.0
91	RECEIVER	1.0	1.0	1.0	91	RECEIVER	1.0	1.0	1.0
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103	RECEIVER	1.0	1.0	1.0	103	RECEIVER	1.0	1.0	1.0
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146	RECEIVER	1.0	1.0	1.0	146	RECEIVER	1.0	1.0	1.0
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157	RECEIVER	1.0	1.0	1.0	157	RECEIVER	1.0	1.0	1.0
158	RECEIVER	1.0	1.0	1.0	158	RECEIVER	1.0	1.0	1.0
1									

Full Name

AMPHITHEATER PUBLIC SCHOOLS
AMPHITHEATER HIGH SCHOOL
IT GENERATORS
125 W. Yavapai Rd. Tucson, Arizona 85705

MONRAD ENGINEERING INC.
CONSULTING ELECTRICAL ENGINEERS
1825 East Ft. Lowell Road, Suite 200
Tucson, Arizona 85719-2391
Tel: (520) 864-0045 / Fax: (520) 864-0042
www.monrad-engineering.com



1 EXISTING CAFETERIA - PARTIAL NEW EMERGENCY
1/8" = 1'-0" POWER PLAN

OELECTRICAL KEYNOTES THIS SHEET ONLY

1. EXISTING PANEL TO REMAIN.
2. EXISTING PANEL TO REMAIN WITH NEW WORK PER NEW PIANO. SEE DIAGRAM SHEET 12. PROVIDE NEW RED PLACARD.
3. TRACE AND ID ALL RECEIPTABLES OF PANEL "0093". REPLACE ALL RECEIPTABLES AND PLATES WITH NEW RED UNITS. PROVIDE NEW CIRCUIT NUMBER LABEL.
4. TRACE AND ID ALL LOADS FROM PANEL "0093". REPLACE ALL JUNCTION BOX COVERS WITH RED COVER AND INDICATE CIRCUIT NUMBER.
5. REPLACE/PROVIDE NEW RED PLACARD AT ALL SAFETY SWITCHES FEED FROM PANEL "0093".
6. EXISTING 1000A-3W-4W-27/400V SWITCHBOARD PER ONE LINE DIAGRAM.

6. Investigate with local dealer to determine whether engine-guarantee-and components. If not, get out of town and get out of state. Do not get involved with operating engine.
7. Bufile Location: Exposed to endusers.

search is initiated to the on position, generator and shorts. The off position of surge switch initiates generator and shutdown. When generator and its running, specified system or equipment malfunctions occur, generator will stop automatically shut down generator and cool intake streams. Operation of a

cess valves to continue lubrication in the event of filter clogging.

[illegible][illegible][illegible]

1. Mores in Jack Bypass/Neutral switch is the position that isolates transfer switch with an arrangement that permits completely isolated loading of transfer switch when isolated. While isolated, electrical power from transfer switch is disabled, except for lighting or maintenance.
2. Drawn Arrangement not required.
3. Bypass/Neutral Switch Current, Voltage, Closing, and Short-Circuit Withstand Ratings: Equal to or

