

# REPLACE TRANSFER SWITCH

## MSHP GENERAL HEADQUARTER COMPLEX

### ANNEX BUILDING

### JEFFERSON CITY, MO

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#### CASCO

12 SUNNEN DR. SUITE 100  
 ST. LOUIS, MO 63143  
 ARCHITECTS / ENGINEERS  
 314-821-1100

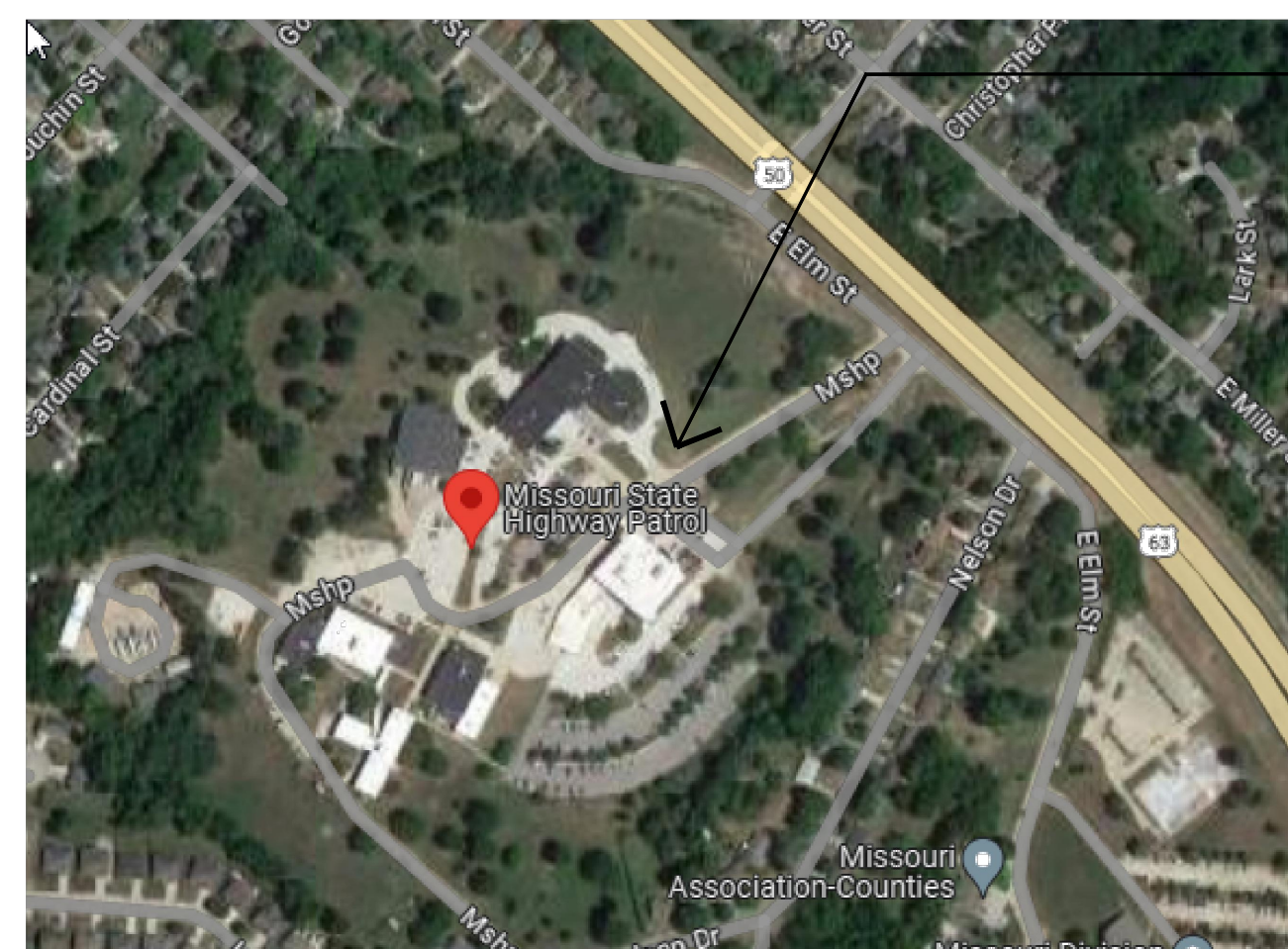
CASCO DIVERSIFIED CORPORATION  
 MISSOURI STATE CERTIFICATE OF AUTHORITY #000613 (ENG)  
 MISSOURI STATE CERTIFICATE OF AUTHORITY #000329 (ARCH)

OWNER: STATE OF MISSOURI  
 MICHAEL L. PARSON,  
 GOVERNOR  
 DEPARTMENT OF PUBLIC SAFETY

DESIGNER: CASCO DIVERSIFIED CORP.

PROJECT MANAGEMENT: OFFICE OF ADMINISTRATION  
 DIVISION OF FACILITIES MANAGEMENT,  
 DESIGN AND CONSTRUCTION

PROJECT NUMBER: R2320-01  
 SITE NUMBER: 6001  
 FACILITY NUMBER: 8136001002



ADDRESS:  
 1510 E. ELM ST.  
 JEFFERSON CITY, MO  
 65101

VICINITY MAP

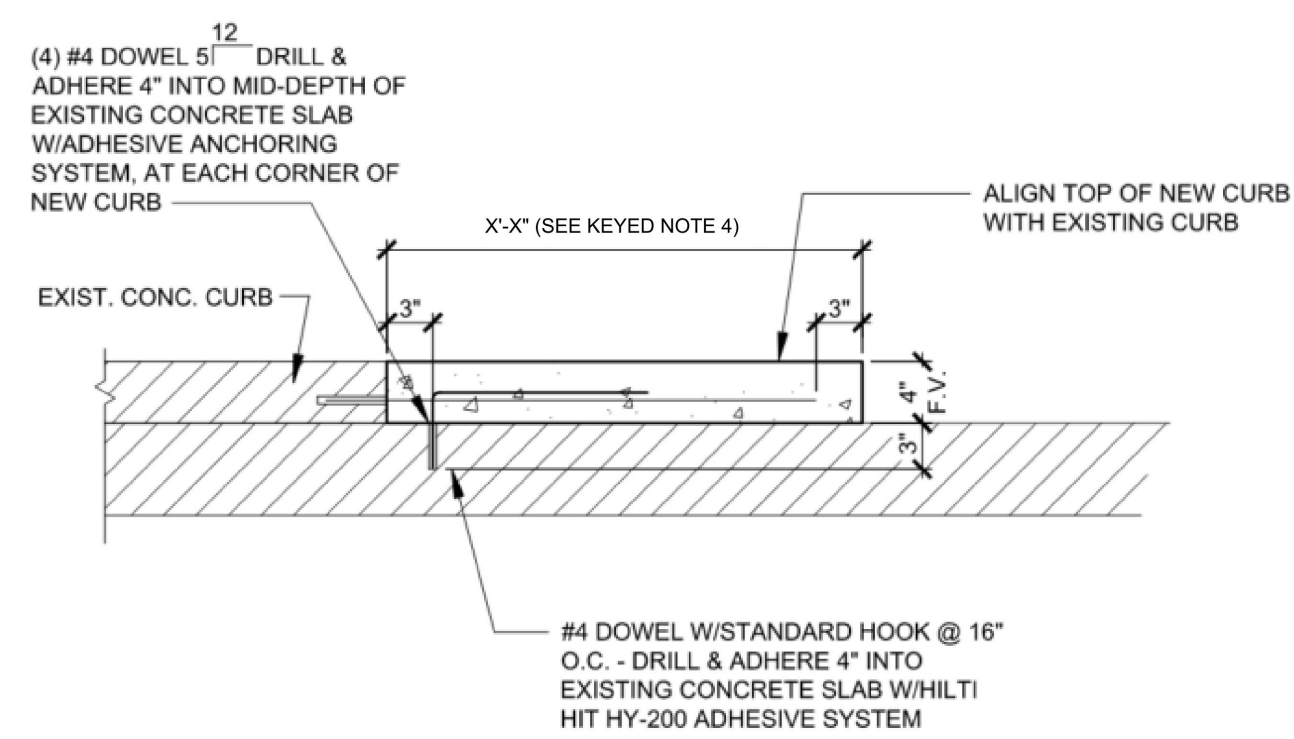
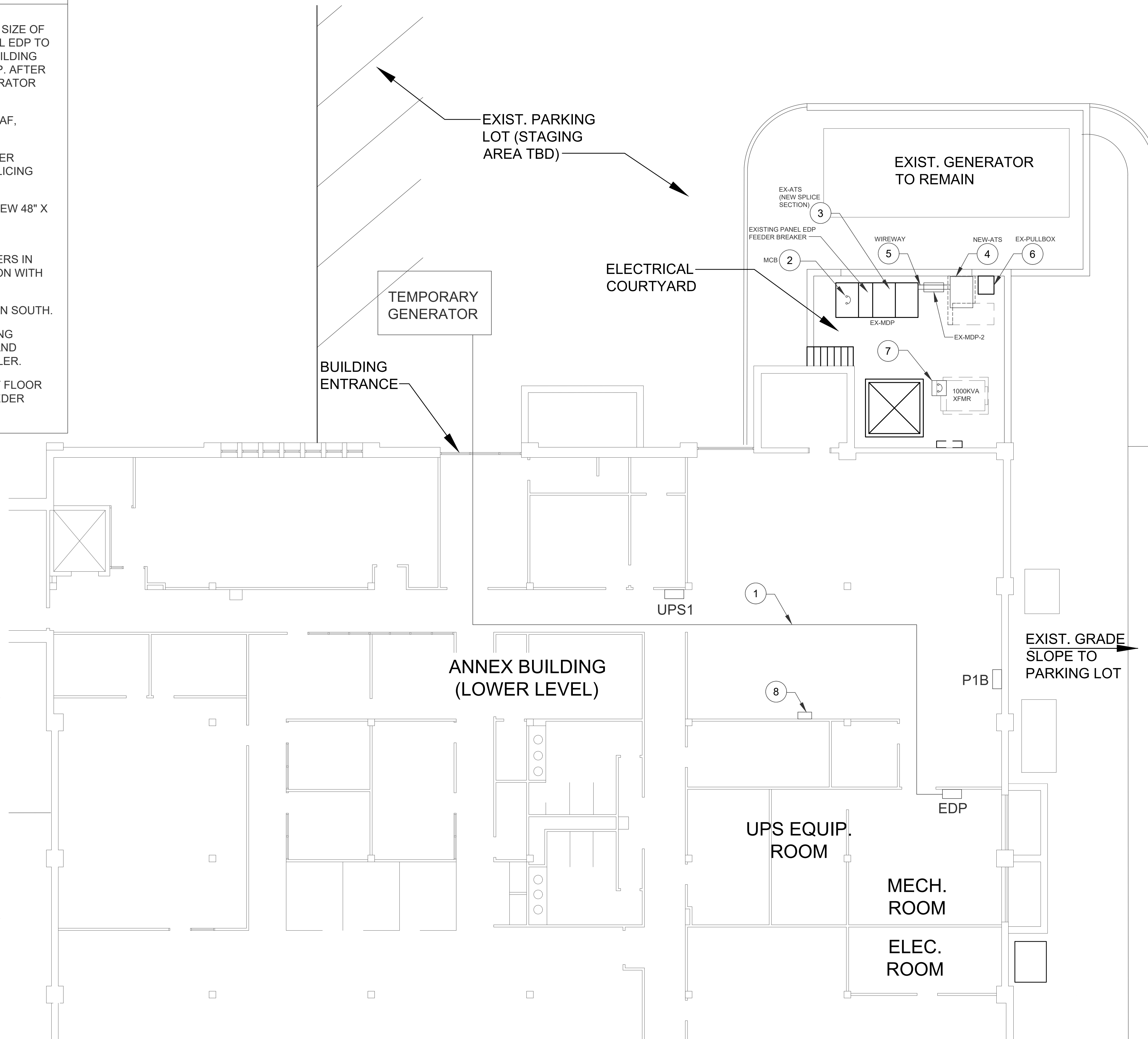


DAVID A. TRETTER  
 License Number: E-21293  
 Expiration Date: 12/31/25

SHEET NUMBER:  
**G-001**  
 1 OF 3 SHEETS  
 07/24/2024

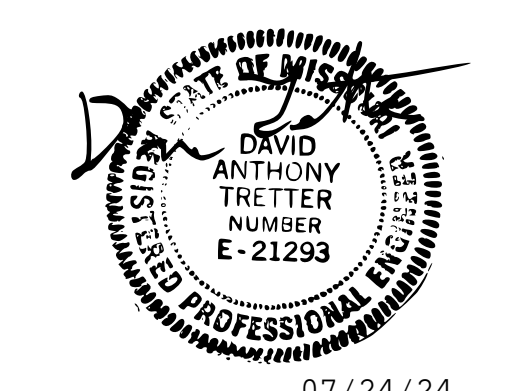
# ELECTRICAL KEYED NOTES

1. EC SHALL PROVIDE TEMPORARY GENERATOR AND FEEDER FROM GENERATOR TO PANEL EDP. EC IS RESPONSIBLE FOR DETERMINING SIZE OF GENERATOR. EC SHALL DISCONNECT EXISTING FEEDER FROM PANEL EDP TO MAKE SAFE. ROUTE TEMPORARY GENERATOR CABLES THROUGH BUILDING ENTRANCE SAFELY ALONG FLOOR TO CONNECTION WITH PANEL EDP. AFTER WORK COMPLETION, DISCONNECT AND REMOVE TEMPORARY GENERATOR POWER AND RECONNECT EXISTING EDP FEEDER.
2. EC SHALL REPLACE MDP MAIN CIRCUIT BREAKER WITH NEW 3P, 3000AF, 1200AT CIRCUIT BREAKER.
3. EC SHALL DISCONNECT AND REMOVE EXISTING AUTOMATIC TRANSFER SWITCH IN MDP. EXISTING ATS SECTION SHALL BE UTILIZED AS A SPLICING SECTION. PATCH UNUSED OPENINGS.
4. EC SHALL PROVIDE NEW 1200A AUTOMATIC TRANSFER SWITCH ON NEW 48" X 60" CONCRETE PAD. NEW CONCRETE PAD SHALL TIE INTO EXISTING CONCRETE PAD.
5. EC SHALL SPLICE INTO NORMAL, EMERGENCY AND LOAD SIDE FEEDERS IN SPLICING (ATS) SECTION AND EXTEND TO WIREWAY FOR CONNECTION WITH NEW ATS.
6. EXISTING PULLBOX TO BE MODIFIED TO PROVIDE ACCESS FROM PLAN SOUTH.
7. EC SHALL PROVIDE A SELECTIVE COORDINATION STUDY FOR EXISTING UTILITY CIRCUIT BREAKER, NEW MAIN CIRCUIT BREAKER FOR MDP, AND LARGEST EXISTING DOWNSTREAM CIRCUIT BREAKER SERVING CHILLER.
8. EXISTING JOHNSON MECHANICAL CONTROL PANEL LOCATED ON 1ST FLOOR SHALL BE RECIRCUITED TO UPS POWER. DISCONNECT EXISTING FEEDER FROM PANEL P1B AND EXTEND CIRCUITING TO PANEL UPS1.

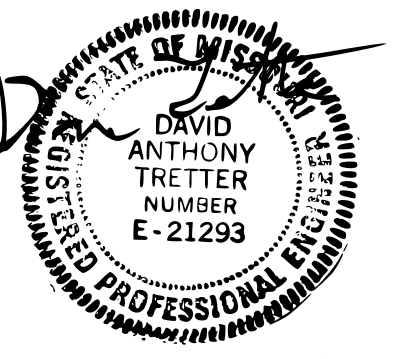


2 NEW CONC. PAD DETAIL  
SCALE: NTS

1 FIRST FLOOR ELECTRICAL PLAN  
SCALE: 1/8" = 1'-0"  
NORTH







07/24/24  
DAVID A. TRETTER  
License Number: 021293  
Expiration Date: 12/31/25  
CASCO Diversified Corporation  
MO Certificate of Authority #000329 Arch.  
MO Certificate of Authority #000613 Eng.

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OFFICE OF  
ADMINISTRATION  
DIVISION OF FACILITIES  
MANAGEMENT,  
DESIGN AND  
CONSTRUCTION

MISSOURI STATE  
HIGHWAY PATROL

REPLACE TRANSFER  
SWITCH

MSHP GENERAL HEADQUARTERS  
BUILDING  
1510 EAST ELM,  
JEFFERSON CITY, MO 65101

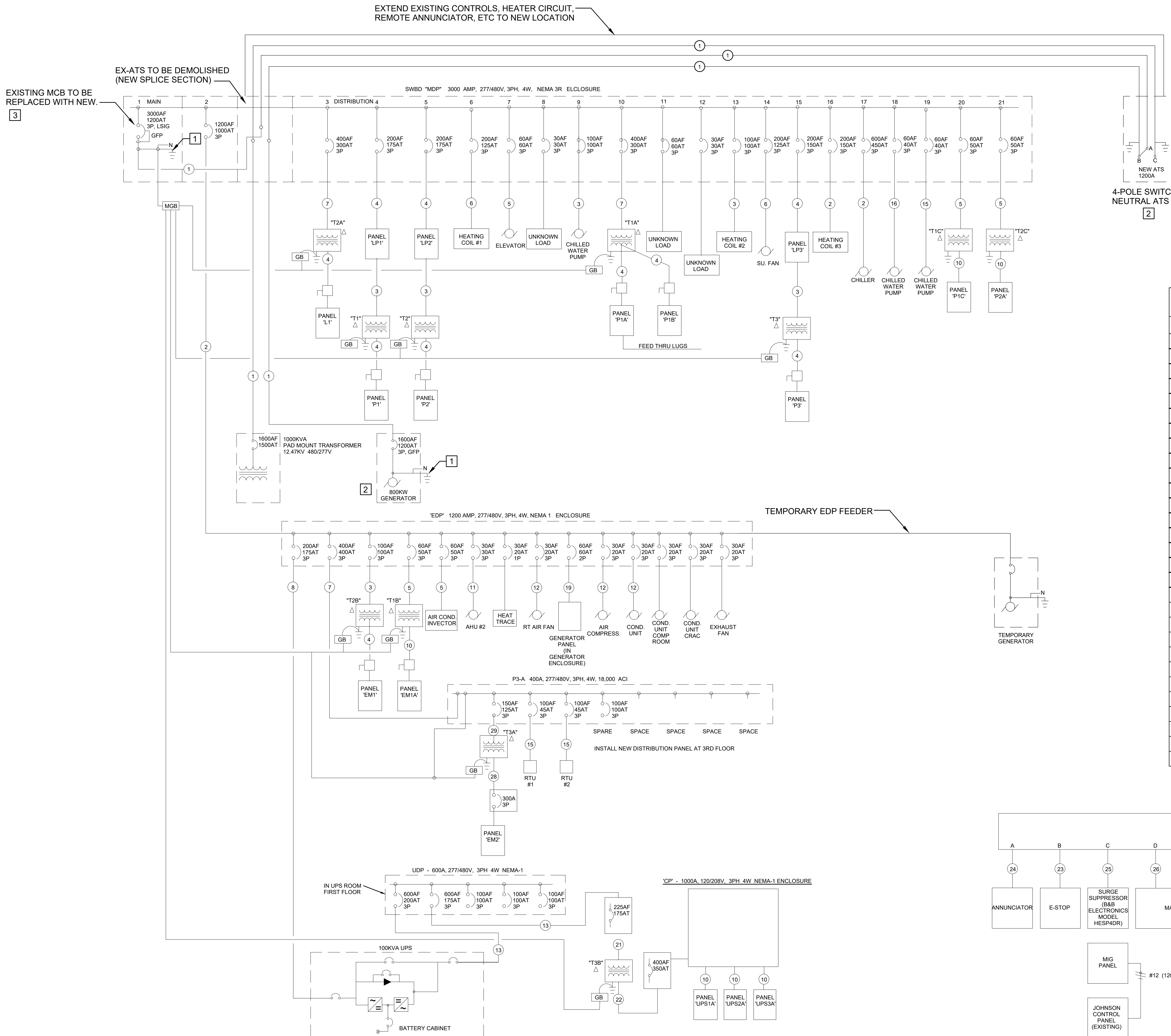
PROJECT # R2320-01  
SITE # 6001  
FACILITY # 8136001002

REVISION: \_\_\_\_\_  
DATE: \_\_\_\_\_  
REVISION: \_\_\_\_\_  
DATE: \_\_\_\_\_  
REVISION: \_\_\_\_\_  
DATE: \_\_\_\_\_  
ISSUE DATE: 07.24.2024

CAD DWG FILE: \_\_\_\_\_  
DRAWN BY: AJS  
CHECKED BY: DAT  
DESIGNED BY: KJC

SHEET TITLE:  
**ELECTRICAL  
ONE-LINE DIAGRAM**

SHEET NUMBER:  
**E-601**  
3 OF 3 SHEETS  
05/29/2024



- # KEYED NOTES
- EXISTING #3/0 CU GROUND TO BUILDING STEEL AND WATER SERVICE, 6 CU GROUND TO GROUND WIRE PER NEC 250 TO REMAIN.
  - EXISTING GENERATOR IS A SEPARATELY DERIVED SYSTEM.
  - FURNISH CIRCUIT BREAKER WITH AN ARC-FLASH REDUCTION MAINTENANCE SYSTEM PER NEC 240.87.

FEEDER NO.	FEEDER DESCRIPTION
1	4 SETS-3 1/2" C., 4-500 KCMIL, 1-#3/0 GND.
2	3 SETS-4" C., 4-500 KCMIL, 1-#3/0 GND.
3	1 1/4" C., 3-#5
4	2" C., 4-#3/0
5	1" C., 3-#6
6	1 1/4" C., 3-#1
7	3 1/2" C., 3-500MCM KCMIL
8	2 SETS-3" C., 4-350 KCMIL
9	2 SETS-3 1/2" C., 4-500 KCMIL
10	1 1/4" C., 4-#3, #10 GND.
11	3/4" C., 3-#10
12	1/2" C., 3-#12
13	2 SETS-3" C., 3-350 KCMIL
14	3 SETS-3 1/2" C., 4-400 KCMIL, 1-#3/0 GND.
15	1" C., 3-#8, 1-#10 GND.
16	2 SETS-2 1/2" C., 3-#4/0, 1-#2 GND.
17	1 1/4" C., 4-#3
18	4 SETS 3-500 MCM
19	3-#6 IN EXISTING CONDUIT
20	4 #300KCMIL, 3/0 GND, 3" C.
21	3 #2/0, 2" C.
22	4 #500KCMIL, 3/0 GND, 3" C.
23	3/4" C., 4-#12
24	3/C #12 1 PAIR (BELDEN #9841)
25	3/C #22 SHIELDED (BELDEN #9363)
26	3/4" C., 8-#14
27	3/4" C., 3-#12
28	2" C., 4-#4/0
29	1 1/4" C., 4-#2

