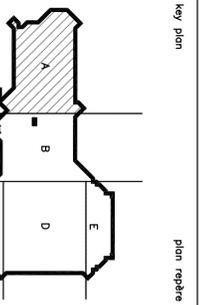


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SC Proj #20-00081-00



Contractor to verify all dimensions & conditions on site and immediately notify the engineer of all discrepancies.

no.	description	date
0	ISSUED FOR DESIGN DEVELOPMENT	2013/02/22
1	ISSUED FOR 90% CONSTRUCTION DOCUMENTS (VOL. 1)	2013/08/15
2	ISSUED FOR 90% CONSTRUCTION DOCUMENTS (VOL. 2)	2013/08/29
3	ISSUED FOR 90% CONSTRUCTION DOCUMENTS (VOL. 3)	2013/10/10
4	ISSUED FOR 90% CONSTRUCTION DOCUMENTS	2013/10/10
5	ISSUED FOR ADDENDUMS	2014/02/10

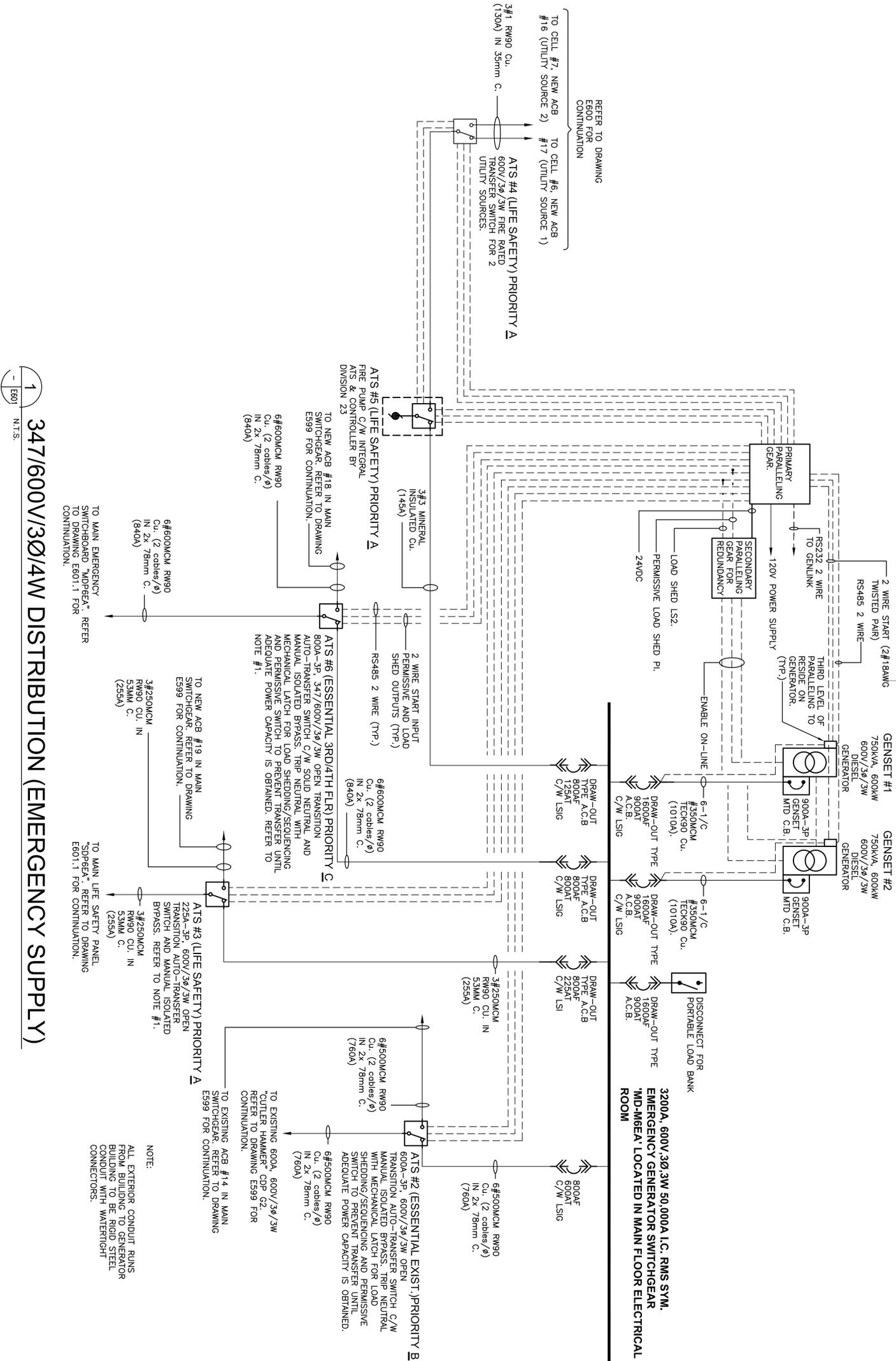
revisions	description	date
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project  
SIR FREDERICK BANTING  
RESEARCH CENTRE  
ANIMAL TO WET LAB CONVERSION  
251 SIR FREDERICK BANTING WAY, ON

drawing  
design

DISTRIBUTION SINGLE  
LINE DIAGRAM-EMERGENCY  
(DIESEL) POWER

Designed by	P. KIEMENEY	Conçu par	(yyyy/mm/dd)
Date		Date	
Drawn by	P. LAPOINTE	Designé par	(yyyy/mm/dd)
Date		Date	
Reviewed by	P. KIEMENEY	Examiné par	(yyyy/mm/dd)
Date		Date	
Approved by	P. KIEMENEY	Approuvé par	(yyyy/mm/dd)
Date		Date	
Tender		Submission	
Project Manager	Administrateur de projets		
Project no.	R.044033.002	No. du projet	
Drawing no.	E601-X1	No. du dessin	



ATS PRIORITY SEQUENCING SCHEDULE

PRIORITY LEGEND	ATS FUNCTION/DESCRIPTION	SEQUENCE OF OPERATIONS - UTILITY POWER FAILURE EVENT
A - ATS TO TRANSFER IMMEDIATELY ON POWER FAILURE	ATS #1	1. ATS #3 & #5 TO BE ON PRIORITY "A".
B - ATS TO TRIP TO NEUTRAL POSITION UNTIL PERMISSIVE SIGNAL FROM GENSETS PARALLELING GEAR	ATS #2 (PRIORITY B)	2. ATS #2 TO BE ON PRIORITY "B".
C - ATS TO TRIP TO NEUTRAL POSITION UNTIL PERMISSIVE SIGNAL FROM GENSETS PARALLELING GEAR	ATS #3 (PRIORITY A)	3. ATS #6 TO BE ON PRIORITY "C".
	ATS #4 (PRIORITY A)	4. ATS #4 TO BE ON PRIORITY "A".
	ATS #5 (PRIORITY A)	5. ATS #4 & #5 CONTROLS TO BE INTERCONNECTED AS FOLLOWS: - ATS #4 NORMAL POSITION IS SOURCE #1, SOURCE #2 IS ALTERNATE POSITION. IF SOURCE #1 FAILURE IS DETECTED, ATS TO TRANSFER TO SOURCE #2 AUTOMATICALLY IF POWER IS SENSED ONLY. IF BOTH SOURCES ARE NOT ENERGIZED, ATS #4 TO SEND SIGNAL TO ATS#5 TO AUTOMATICALLY TRIP.
	ATS #6 (PRIORITY C)	- GENERATOR RUNNING - LOAD SHEDDING. - NORMAL OPERATION, GENSETS RUNNING AND ATS #2, #3 & #6 ENGAGED. - IF START SIGNAL FROM ATS #4/#5 (FIRE PUMP) IS RECEIVED AND AVAILABLE CAPACITY TO BE 300KW, ATS #5 CAN TRANSFER. IF CAPACITY IS NOT AVAILABLE, ATS #6 & #2 TO DROP OUT IN SEQUENCE AS REQUIRED. - MINIMUM ALLOWABLE GENSET CAPACITY TO BE 10% (1080KW), SHUTDOWN ATS IN PRIORITY SEQUENCE TO MEET MINIMUM CAPACITY.

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