

TOPEKA METRO

**REQUEST FOR BIDS
Back-Up Generator
Quincy Street Station
TO-24-06**

**Appendix III
Engineering Studies**

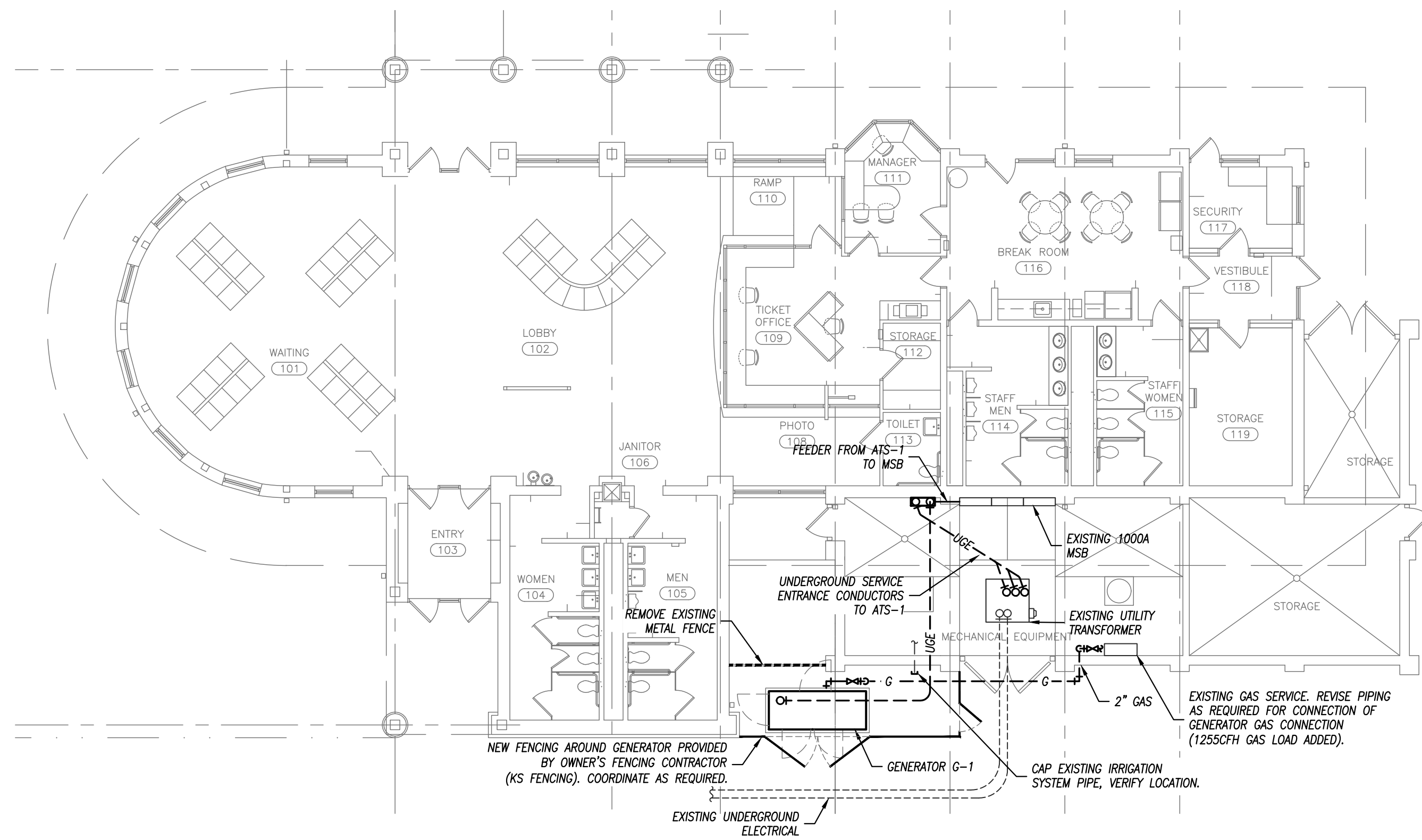
PRELIMINARY
NOT FOR CONSTRUCTION

pkmr
ENGINEERS
PEARSON KENT MCKINLEY RAAF ENGINEERS LLC
2933 SW WOODSIDE DR., SUITE C TOPEKA, KS 66614
785.273.2447 WWW.PKMR.ENG.COM

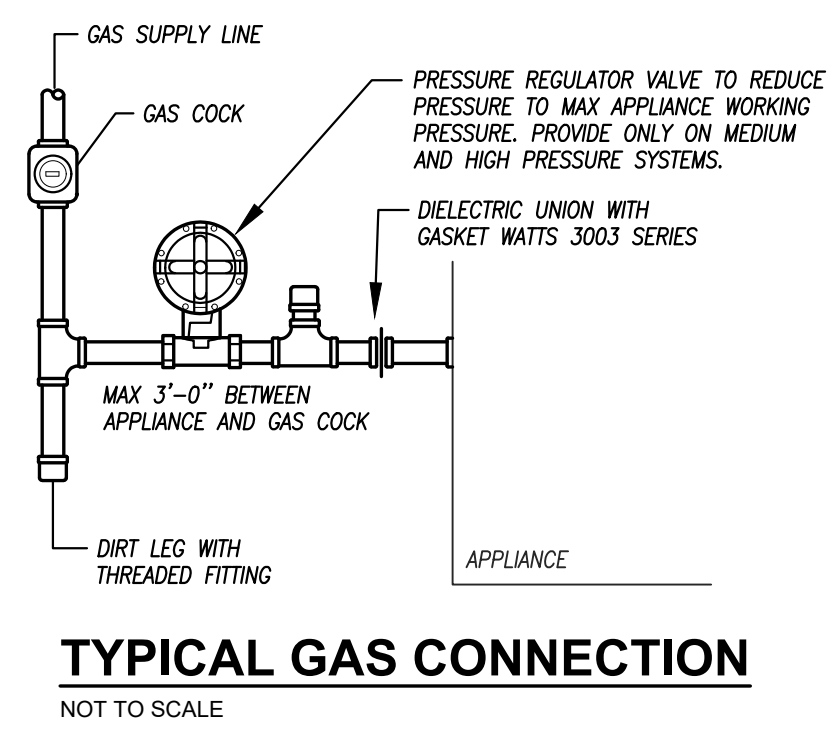
**TOPEKA METROPOLITAN TRANSIT
AUTHORITY GENERATOR ADDITION**

**820 SE QUINCY STREET
TOPEKA, KS**

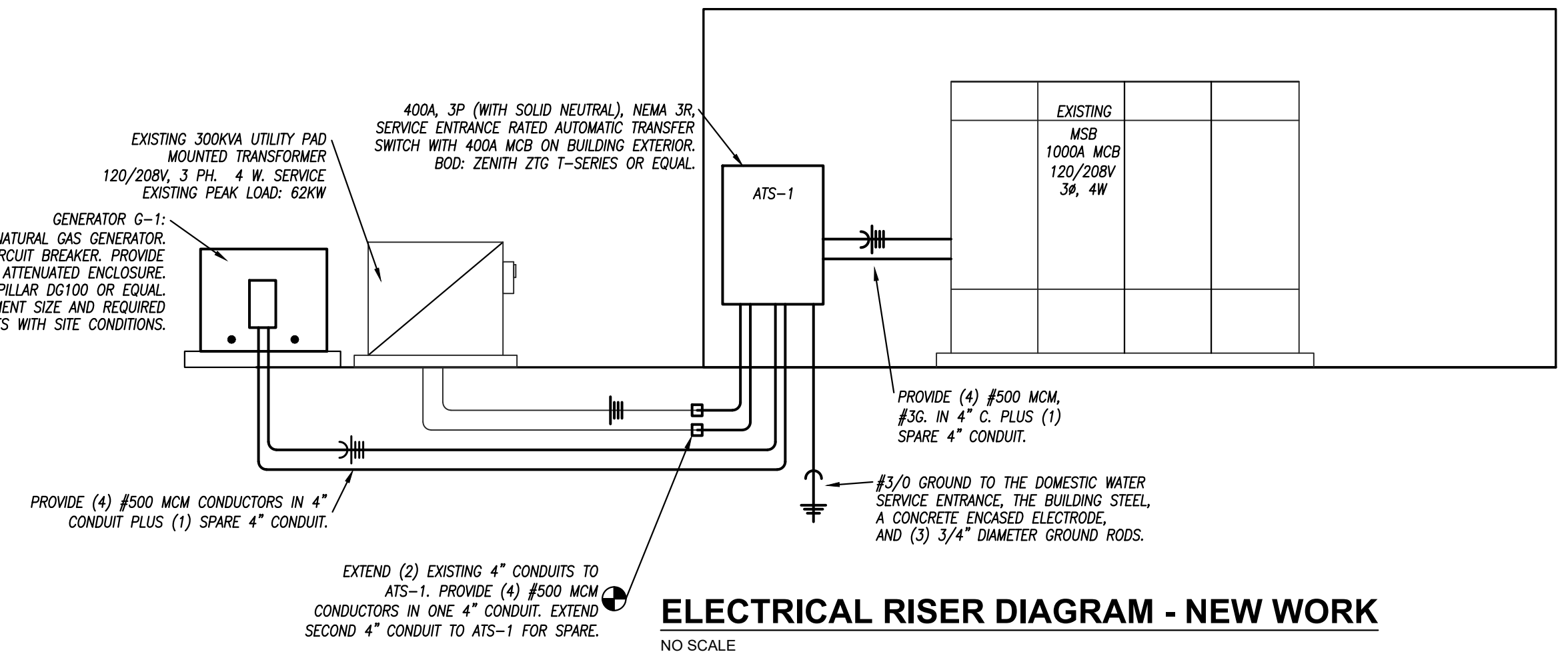
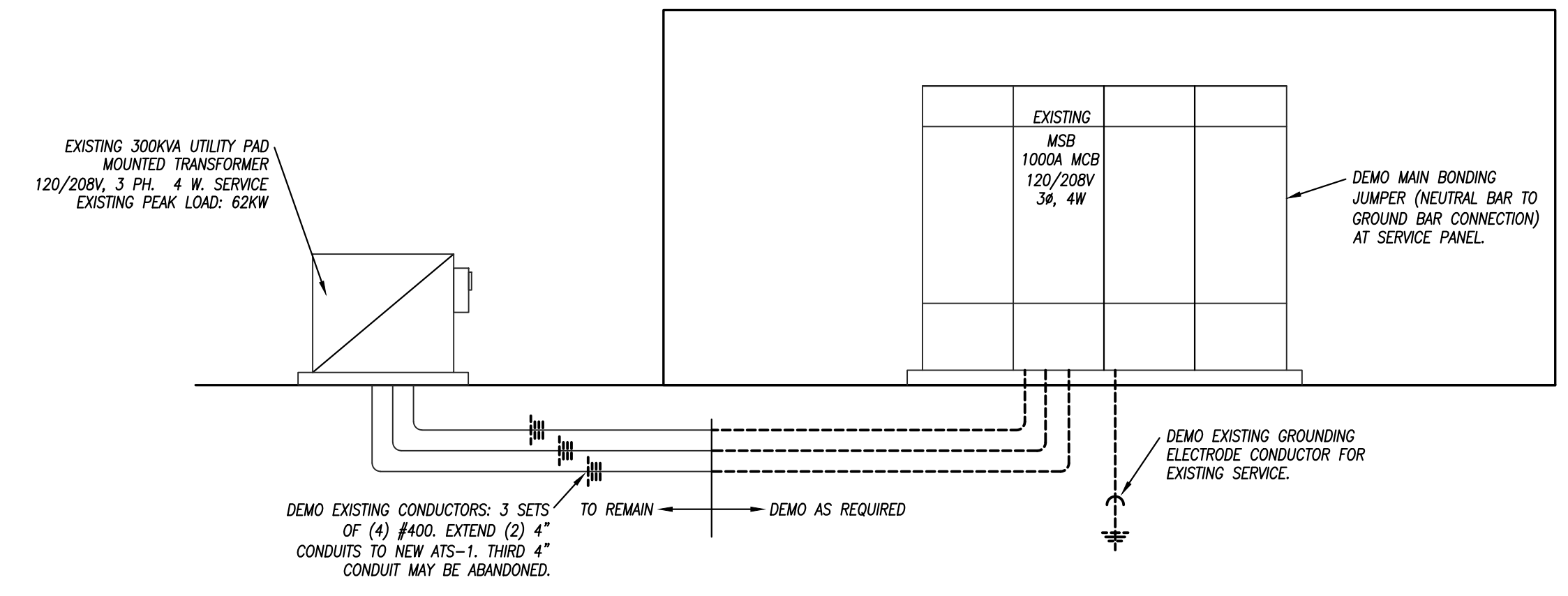
ISSUED FOR:	
DESCRIPTION	DATE
1	
2	
3	
4	
5	
6	
7	
8	
© PEARSON KENT MCKINLEY RAAF ENGINEERS, LLC	
DRAWN BY:	KAH
CHECKED BY:	SWM
SHEET TITLE:	
MEP PLAN & DETAILS	
DATE:	PKMR PROJECT:
3/12/24	24.121
SHEET NUMBER:	
MEP2	



PIPING MATERIAL & INSULATION SCHEDULE							
PIPING SYSTEM	SIZE	TYPE/SCHED	MATERIAL	ACCEPTABLE FITTINGS	FIELD TEST PRESSURE/TIME	ALLOWABLE IN PLENUMS	INSULATION TYPE THICKNESS
NATURAL GAS - ABOVE GRADE	2-1/2" & Up	SCH. 40	STEEL - SEAMED	WELDED	75 PSI - 1HR	YES	----
NATURAL GAS - ABOVE GRADE	1/2"-2"	SCH. 40	STEEL - SEAMLESS	THREADED IRON	75 PSI - 1HR	YES	----
NATURAL GAS BELOW GRADE	ALL	SDR-11	POLYETHYLENE	FUSION JOINTS	100 PSI - 1HR	NO	----



EXISTING GAS SERVICE AND TRANSFORMER
NOT TO SCALE



EQUIPMENT FAULT CURRENT RATING SCHEDULE				
EQUIPMENT	SCA **	SCCR	% OF RATING	NOTES
AUTOMATIC TRANSFER SWITCH ATS-1	51,110	65,000	79%	

NOTES:
1. RATING BASED ON AN ASSUMED FAULT AT UTILITY CO. TRANSFORMER OF 75,022A.
** CALCULATIONS PERFORMED USING BUSSMANN POINT-TO-POINT METHOD.

