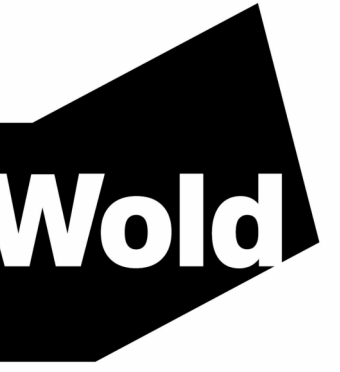


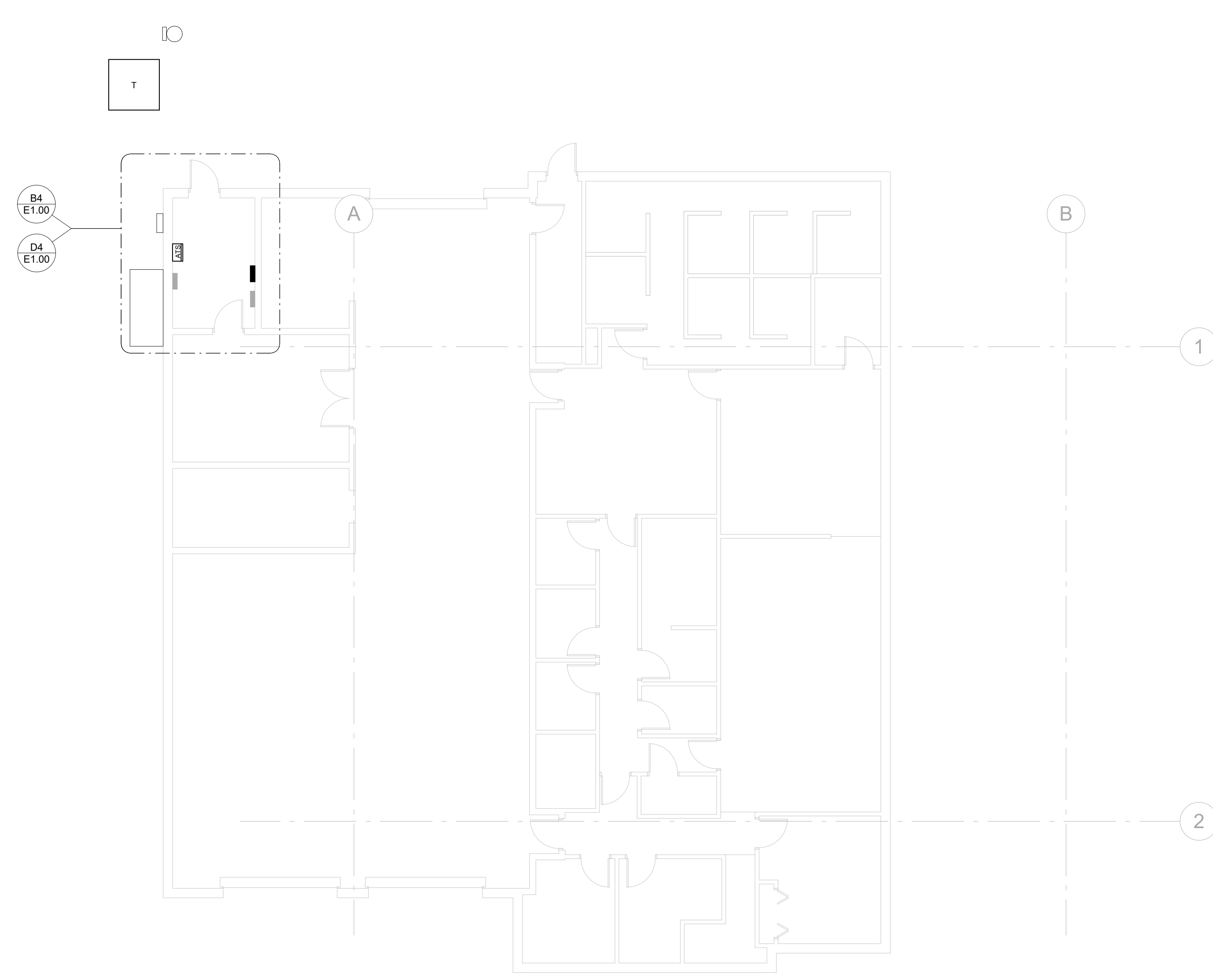
**FIRE STATION #27
GENERATOR
REPLACEMENT**

100 W. Half Day Road, Buffalo
Grove, IL 60089

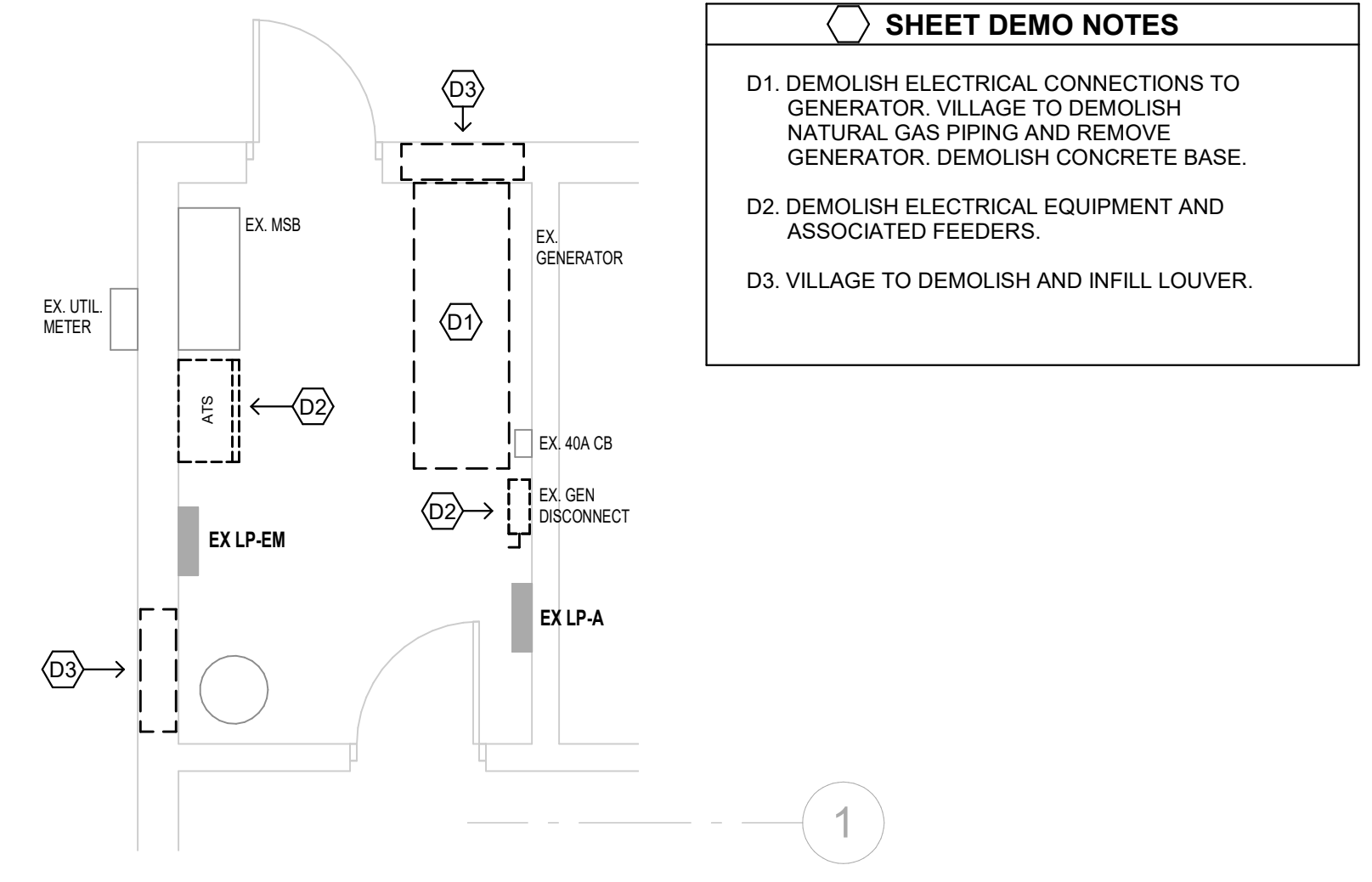
**VILLAGE OF BUFFALO
GROVE**
50 RAUPP BLVD, BUFFALO
GROVE, IL 60089



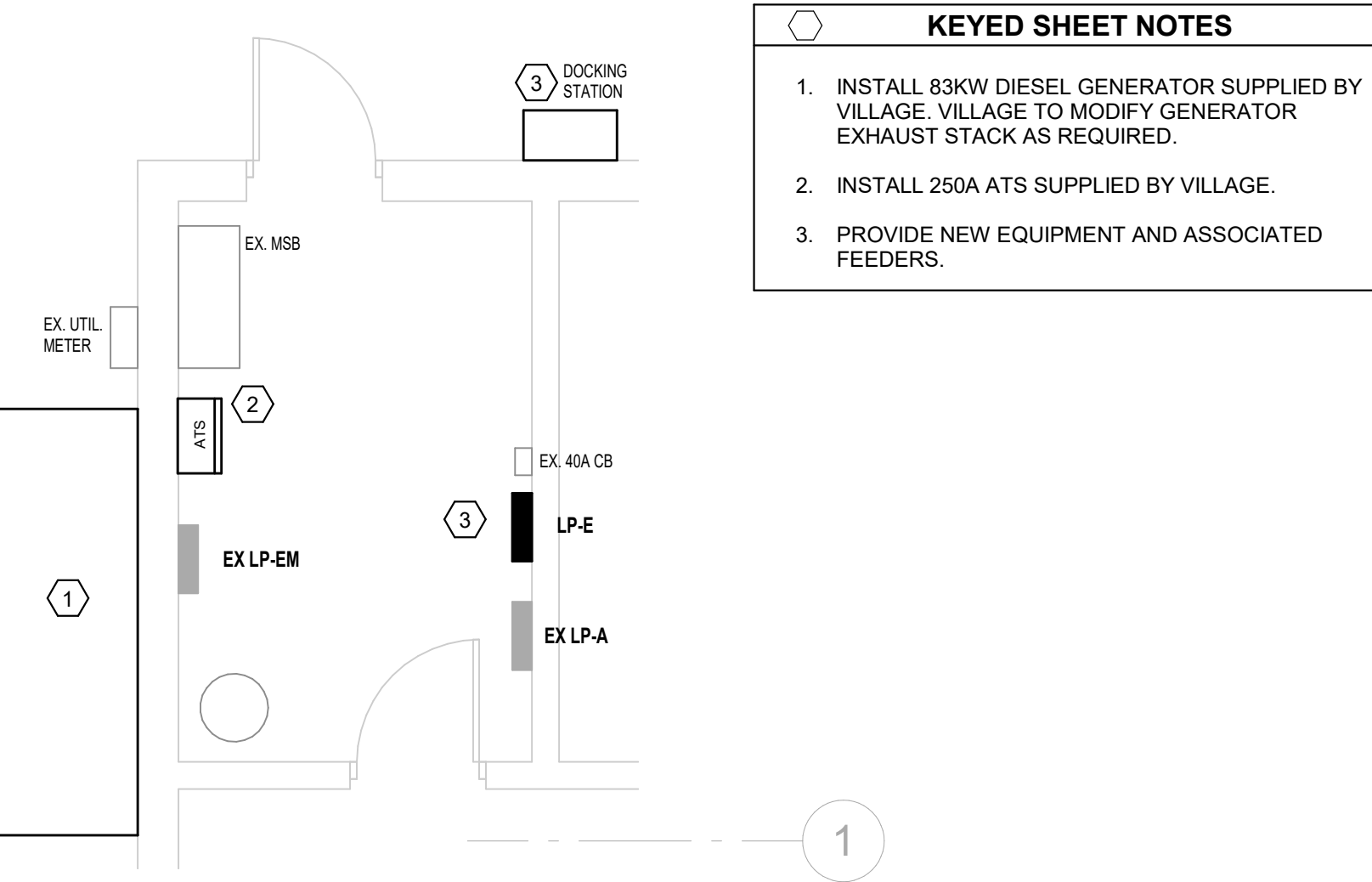
**WOLD ARCHITECTS
AND ENGINEERS**
220 North Smith Street, Suite 310
Palatine, Illinois 60067
woldac.com | 847.241.6100



D1 OVERALL ELECTRICAL PLAN
1/8" = 1'-0"



B4 ENLARGED ELECTRICAL DEMOLITION PLAN
1/4" = 1'-0"



D4 ENLARGED ELECTRICAL PLAN
1/4" = 1'-0"

SHEET DEMO NOTES

- D1. DEMOLISH ELECTRICAL CONNECTIONS TO GENERATOR. VILLAGE TO DEMOLISH NATURAL GAS PIPING AND REMOVE GENERATOR. DEMOLISH CONCRETE BASE.
- D2. DEMOLISH ELECTRICAL EQUIPMENT AND ASSOCIATED FEEDERS.
- D3. VILLAGE TO DEMOLISH AND INFILL LOUVER.

KEYED SHEET NOTES

- INSTALL 83KW DIESEL GENERATOR SUPPLIED BY VILLAGE. VILLAGE TO MODIFY GENERATOR EXHAUST STACK AS REQUIRED.
- INSTALL 250A ATS SUPPLIED BY VILLAGE.
- PROVIDE NEW EQUIPMENT AND ASSOCIATED FEEDERS.

PANELBOARD: LP-E

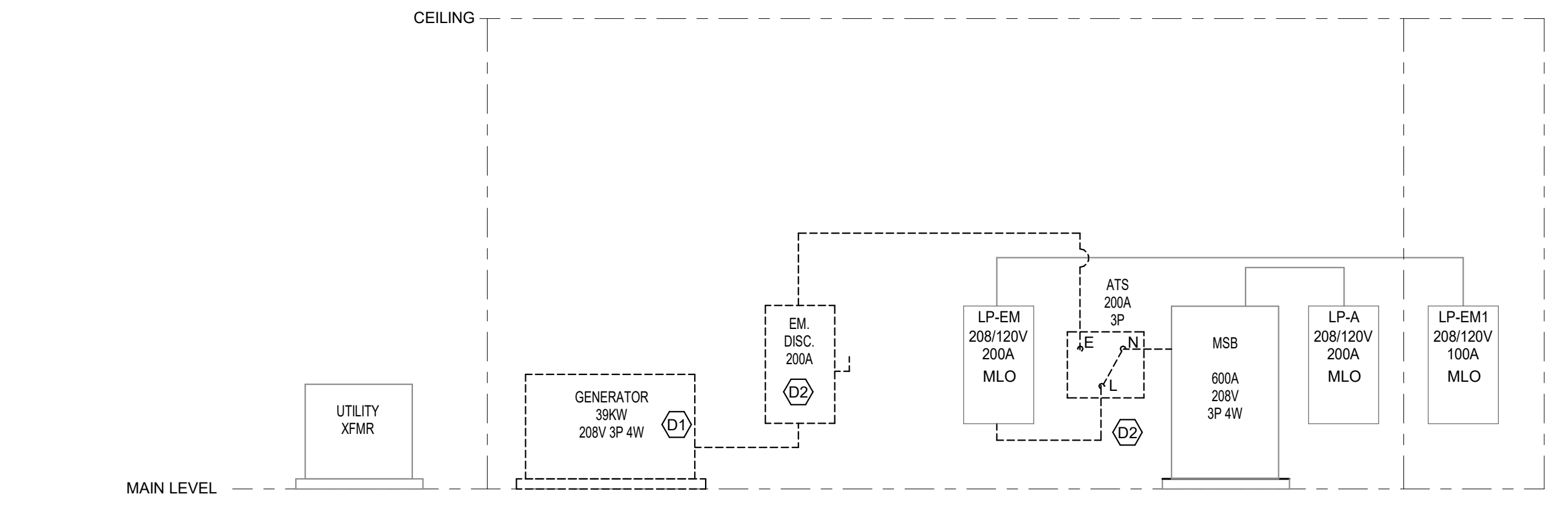
LOCATION: SURFACED VOLTAGE: 208Y/120 V. 3 ø 4 W.
MOUNTING: SURFACED A.F.C. ...
MAINS TYPE: MLO SPECIAL: 22 KAIC
MAINS AMPS: 100A
BUS AMPS: 100A
FED FROM: MSB

#	BT	LOAD DESCRIPTION	LT	BKR	P	PHASE A KVA	PHASE B KVA	PHASE C KVA	P	BKR	LT	LOAD DESCRIPTION	BT	
1	SPARE	--	20 A	1	0.0	0.0				1	20 A	--	SPARE	2
3	SPARE	--	20 A	1			0.0	0.0		1	20 A	--	SPARE	4
5	SPARE	--	20 A	1				0.0	0.0	1	20 A	--	SPARE	6
7	FUTURE EV CHARGING	--	40 A	2	0.0	0.0				1	20 A	--	SPARE	8
9	--	--	--	--	--	--	0.0	0.0		1	20 A	--	SPARE	10
11	FUTURE EV CHARGING	--	40 A	2				0.0	0.0	1	20 A	--	SPARE	12
13	--	--	--	--	--	0.0	0.0			1	20 A	--	SPARE	14
15	FUTURE EV CHARGING	--	40 A	2			0.0	0.0		1	20 A	--	SPARE	16
17	--	--	--	--	--			0.0	0.0	1	20 A	--	SPARE	18
19	FUTURE EV CHARGING	--	40 A	2	0.0	0.0				1	20 A	--	SPARE	20
21	--	--	--	--	--			0.0	0.0	1	20 A	--	SPARE	22
23	SPARE	--	20 A	3				0.0	0.0	1	20 A	--	SPARE	24
25	--	--	--	--	--	0.0	0.0			1	20 A	--	SPARE	26
27	--	--	--	--	--			0.0	0.0	1	20 A	--	SPARE	28
29	SPARE	--	20 A	3				0.0	0.0	1	20 A	--	SPARE	30
31	--	--	--	--	--	0.0	0.0			1	20 A	--	SPARE	32
33	--	--	--	--	--			0.0	0.0	1	20 A	--	SPARE	34
35	SPARE	--	20 A	1				0.0	0.0	1	20 A	--	SPARE	36
37	SPARE	--	20 A	1	0.0	0.0				1	20 A	--	SPARE	38
39	SPARE	--	20 A	1				0.0	0.0	1	20 A	--	SPARE	40
41	SPARE	--	20 A	1				0.0	0.0	1	20 A	--	SPARE	42
TOTAL LOAD:						0 KVA	0 KVA	0 KVA						
TOTAL AMPS:						0 A	0 A	0 A						

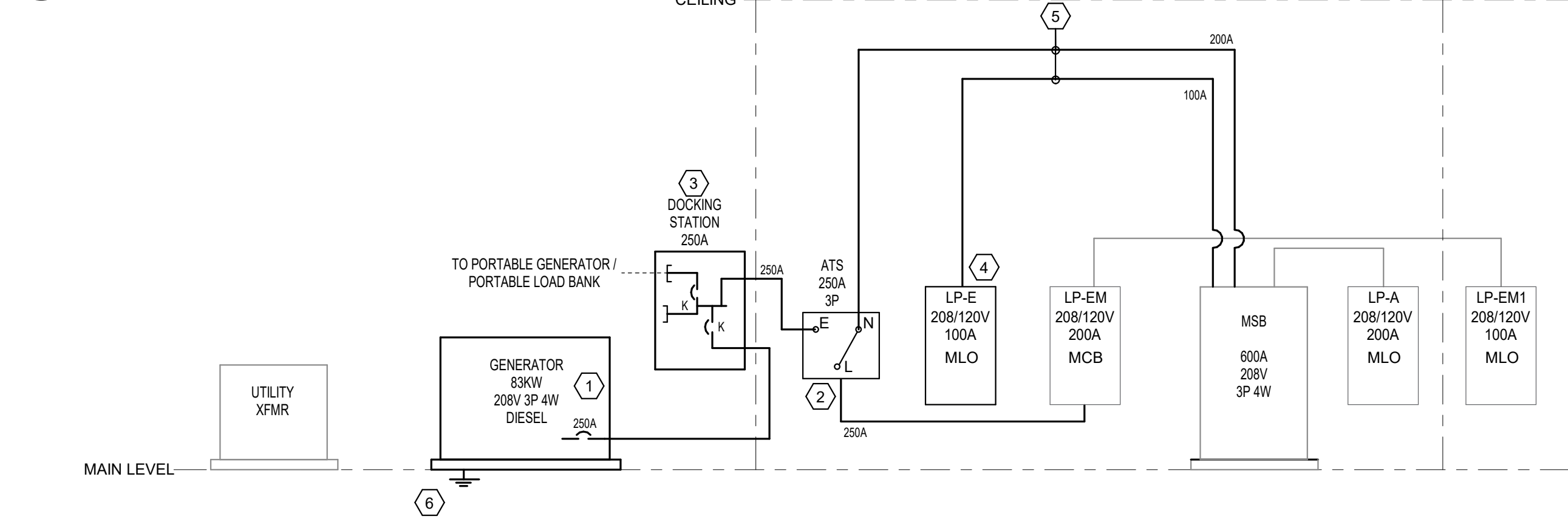
LOAD CLASSIFICATION

CONNECTED	DEMAND	ESTIMATED	PANEL TOTALS
			CONNECTED LOAD: 0 VA
			ESTIMATED DEMAND: 0 VA
			CONNECTED CURRENT: 0 A
			EST. DEMAND CURRENT: 0 A

Load Types (LT): COOL - Summer Cooling, ELEV - Elevator, EQ - Equipment, EX - Existing, GND - Grounding, HEAT - Winter Heating, KTCH - Kitchen, L MTR - Largest Motor, LTG - Lighting, MTR - Motor, RCPT - Receptacle
Breaker Types (BT): AF = Arc Fault, GF = Ground Fault Circuit Interrupt, GE = Ground Fault Equipment Protection (30mA), SH = Shunt Trip, EX = Existing, NX = New Breaker For Existing Panel, M = Metered
NOTES:



E1 ELECTRICAL RISER DIAGRAM - DEMOLITION
N.T.S.



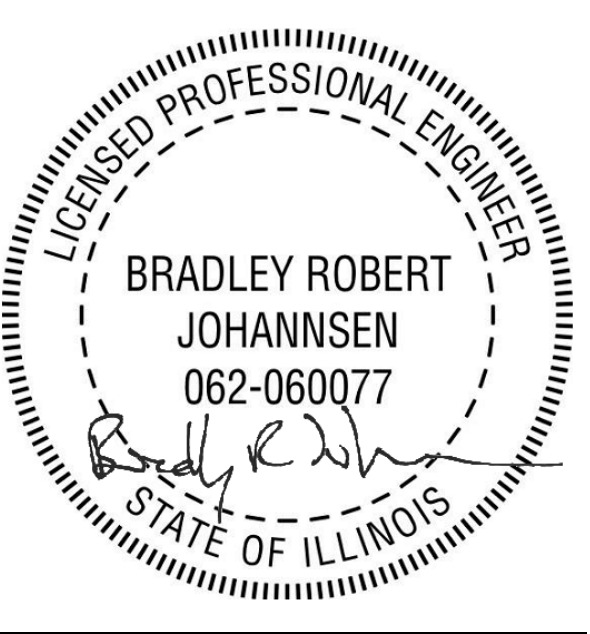
F1 ELECTRICAL RISER DIAGRAM - NEW
N.T.S.

RISER - DEMOLITION - KEYED NOTES:

- D1. DEMOLISH ELECTRICAL CONNECTIONS TO GENERATOR. VILLAGE TO DEMOLISH NATURAL GAS PIPING AND REMOVE GENERATOR.
- D2. DEMOLISH ELECTRICAL EQUIPMENT AND ASSOCIATED FEEDERS.

RISER - NEW - KEYED NOTES:

- INSTALL 83KW DIESEL GENERATOR SUPPLIED BY VILLAGE. GENERATOR PAD BY VILLAGE. TIGHT TO EXTERIOR WALL. ROUTE CONDUITS ABOVE GRADE. PROVIDE MOUSEHOLES IN REAR ACCESS PANEL AND WORK CONDUIT UP TO TERMINATION POINTS AS REQUIRED. VILLAGE TO DELIVER AND SET GENERATOR.
- INSTALL 250A ATS SUPPLIED BY VILLAGE.
- PROVIDE DOCKING STATION WITH CAM LOCKS AND MECHANICAL INTERLOCKING DEVICES AS REQUIRED TO ALLOW FOR PORTABLE GENERATOR AND/OR PORTABLE LOAD BANK CONNECTION.
- PROVIDE NEW 100A PANEL, FEED FROM SPARE 100A FUSED DISCONNECT IN MSB.
- FEEDERS SHALL BE ROUTED THROUGH CEILING SPACE (APPROXIMATELY 22' TO BOTTOM OF STRUCTURE).
- CONFIRM VILLAGE-SUPPLIED TRANSFER SWITCH IS 4-POLE TYPE. IF SO, PROVIDE GROUNDING AT GENERATOR AS REQUIRED TO ACHIEVE SEPARATELY DERIVED SYSTEM.



I hereby certify that this plan, specification or report was prepared by me or under my direct supervision and that I am a duly Licensed PROFESSIONAL ENGINEER under the laws of the State of ILLINOIS
Bradley R. Johanssen
License Number: 43936 Date: 12/16/2023

Description	Revisions	
	Date	Num

Comm: 233151
Date: 12/15/2023
Drawn: D.SALAZAR
Check: B.JOHANSEN North

**ELECTRICAL
PLANS AND
DETAILS**

Scale: As Indicated
E1.00