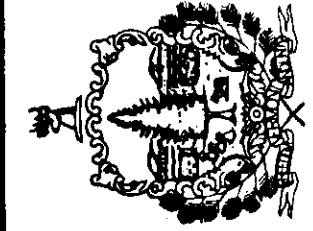


STATE OF VERMONT
Department of Buildings
and General Services
Agency of Administration
Montpelier, Vermont



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AGENCY OF TRANSPORTATION
ST. ALBANS MAINTENANCE
GARAGE ELECTRICAL RENOVATIONS
VERMONT

REVISIONS
SCALE: AS SHOWN
DATE: AUG. 2004
DRAWN BY: ASG
APPR. BY: EEP

AGENCY OF TRANSPORTATION
GARAGE & OFFICES
DETAILS & SCHEDULES

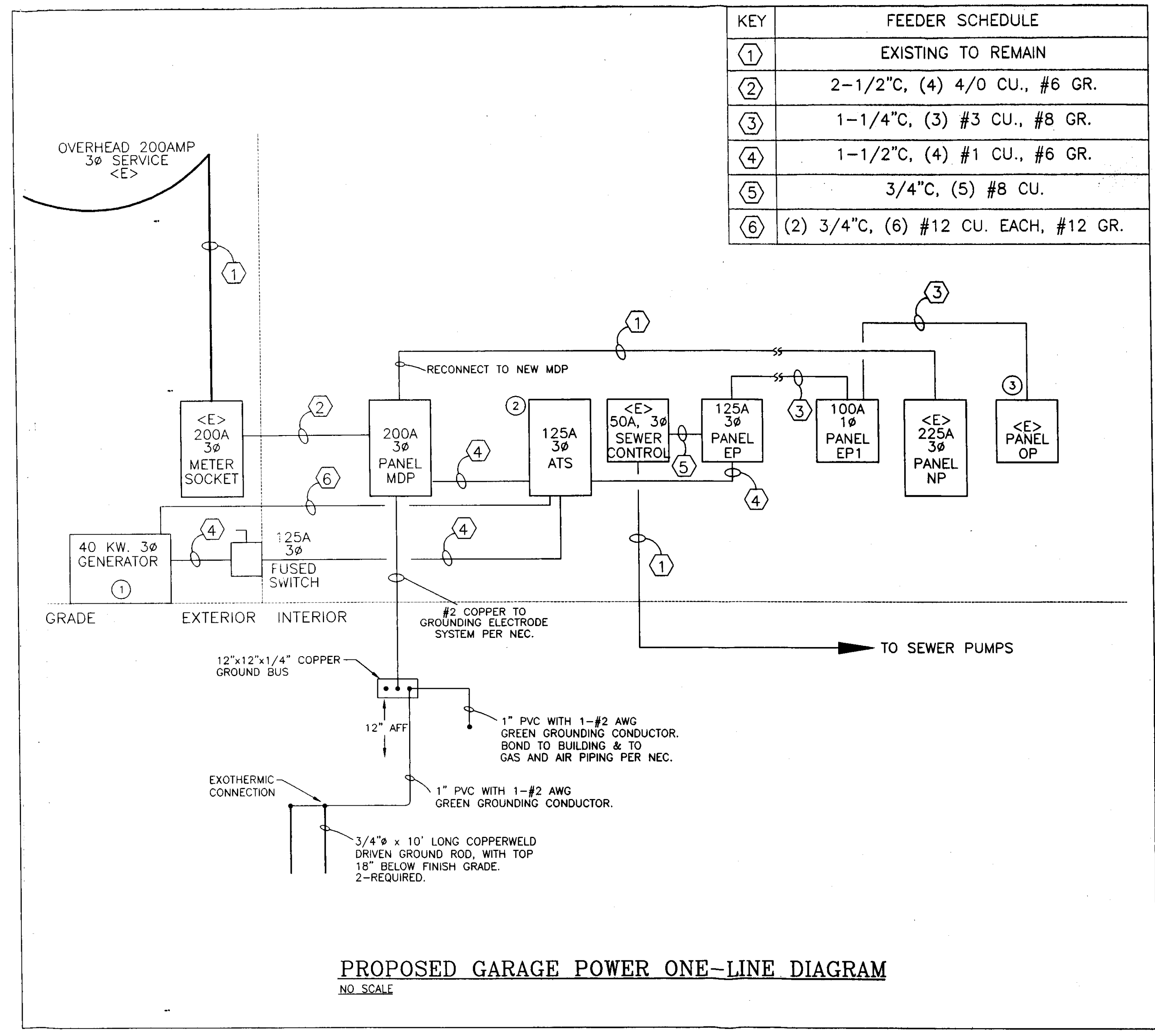
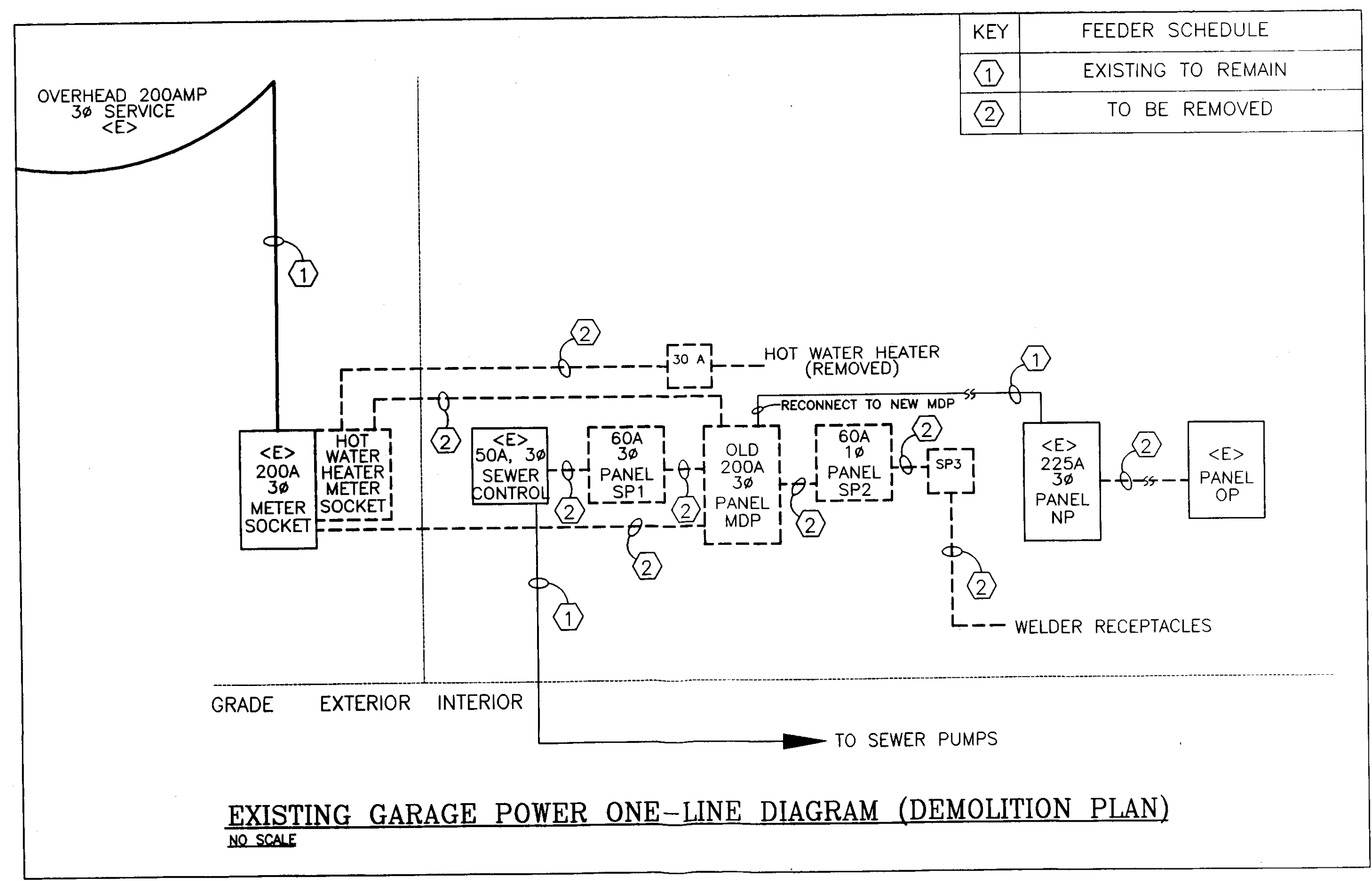
E-2
2 OF 2

PANEL DESIGNATOR									
PANEL: NEW MDP PANELBOARD 10,000 AIC		LOCATION: GARAGE MOUNTING: SURFACE MAINS: 3 ϕ , 4 WIRE, 120/208v, 42 CKT, 200A MAIN CIRCUIT BREAKER							
CKT NO.	KW LOAD	DESCRIPTION	BREAKER		BREAKER		DESCRIPTION	KW LOAD	CKT NO.
			P	AMP	AMP	P			
1		EXISTING CIRCUIT	1	20	20	1	EXISTING CIRCUIT		2
3		EXISTING CIRCUIT	1	20	20	1	EXISTING CIRCUIT		4
5		EXISTING CIRCUIT	1	20	20	1	EXISTING CIRCUIT		6
7		EXISTING CIRCUIT	1	20	20	1	EXISTING CIRCUIT		8
9		EXISTING CIRCUIT	1	20	20	1	EXISTING CIRCUIT		10
11		EXISTING CIRCUIT	1	20	20	1	EXISTING CIRCUIT		12
13		EXISTING CIRCUIT	1	20	20	1	EXISTING CIRCUIT		14
15		EXISTING CIRCUIT	1	20	20	1	EXISTING CIRCUIT		16
17		EXISTING CIRCUIT	1	20	20	1	EXISTING CIRCUIT		18
19		EXISTING CIRCUIT	1	20	20	1	EXISTING CIRCUIT		20
21		AIR COMPRESSOR	3	50	20	1	EXISTING CIRCUIT		22
23					30	1	EXISTING CIRCUIT		24
25					30	2	EXISTING CIRCUIT		26
27		EXISTING CIRCUIT	1	20	GFI				28
29		EXISTING CIRCUIT	1	20	GFI	20	2	EXISTING CIRCUIT	30
31		WELDER RECEPTACLE	2	50					32
33					20	1	SPARE		34
35		SPARE	1	20	125	3	PANEL EP		36
37		SPARE	1	20					38
39		SPARE	1	20					40
41		SPARE	1	20	20	1	SPARE		42

PANEL DESIGNATOR									
PANEL: EP1 PANELBOARD 10,000 AIC		LOCATION: NEXT TO PANEL NP MOUNTING: SURFACE MAINS: 1 ϕ , 3 WIRE, 120/208v, 12 CKT, 100A MAIN LUGS ONLY							
CKT NO.	KW LOAD	DESCRIPTION	BREAKER		BREAKER		DESCRIPTION	KW LOAD	CKT NO.
			P	AMP	AMP	P			
1		NP CKT #5 (REFRIGERATOR)	1	20	20	1	NP CKT #20 (LIGHTS)		2
3		NP CKT #7 (LUNCH ROOM)	1	20	20	1	NP CKT #26 (OUTLETS)		4
5		NP CKT #12 (PARTS ROOM)	1	20	90	2	OFFICE SUBPANEL "OP"		6
7		SPARE	1	20					8
9		SPARE	1	20			SPACE		10
11		SPARE	1	20			SPACE		12

PANEL DESIGNATOR									
PANEL: EP PANELBOARD 10,000 AIC		LOCATION: GARAGE MOUNTING: SURFACE MAINS: 3 ϕ , 4 WIRE, 120/208v, 20 CKT, 125A MAIN CIRCUIT BREAKER							
CKT NO.	KW LOAD	DESCRIPTION	BREAKER		BREAKER		DESCRIPTION	KW LOAD	CKT NO.
			P	AMP	AMP	P			
1		PANEL EP1	2	100	20	1	SP2 CKT #1, GARAGE DOORS		2
3					20	1	SP2 CKT #2, GARAGE DOORS		4
5		MDP CKT. #12 LIGHTS	1	20	20	1	SP2 CKT #3, GARAGE DOORS		6
7		MDP CKT. #20 GAS PUMP	1	20	20	1	SP2 CKT #5, UNIT HEATERS		8
9		MDP CKT #22 GAS PUMP REC.	1	20	20	1	SP2 CKT #7, UNIT HEATERS		10
11		SEWAGE PUMP CONTROLLER	3	50	20	1	GARAGE OUTLETS		12
13					20	1	SPARE		14
15					20	1	SPARE		16
17		SPACE			20	1	SPARE		18
19		SPACE			20	1	SPARE		20

- KEYED NOTES:**
- OWNER SHALL PURCHASE & INSTALL GENERATOR. ALL WIRING BY EC.
 - OWNER SHALL PURCHASE AUTOMATIC TRANSFER SWITCH. INSTALLATION & ALL WIRING BY EC.
 - NEW FEED TO OFFICE PANEL, PROVIDE GROUND BAR, SEPARATE ALL NEUTRALS AND GROUNDS PER NEC.



KEY	FEEDER SCHEDULE
①	EXISTING TO REMAIN
②	2-1/2" C, (4) 4/0 CU., #6 GR.
③	1-1/4" C, (3) #3 CU., #8 GR.
④	1-1/2" C, (4) #1 CU., #6 GR.
⑤	3/4" C, (5) #8 CU.
⑥	(2) 3/4" C, (6) #12 CU. EACH, #12 GR.

PROPOSED GARAGE POWER ONE-LINE DIAGRAM
NO SCALE