

PANEL LOAD CALCULATION

Date	Manufacturer's Serial Number	Panel
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Load Type	Connected Load	Demand Factor	Demand Load
Lighting	_____	X 125% =	_____
Gen use receptacles <10 KVA	_____	X 100% =	_____
Gen use receptacles > 10 KVA	_____	X 50% =	_____
Motors & compressors	_____	X 100% =	_____
(Largest)	(_____)	X 25% =	_____
Computer receptacles	_____	X 100% =	_____
Mechanical & HVAC	_____	X 100% =	_____
Kitchen equipment	_____	X ____% =	_____
Miscellaneous	_____	X 100% =	_____
Miscellaneous	_____	X ____% =	_____
_____	_____	X ____% =	_____
_____	_____	X ____% =	_____

<input type="checkbox"/> 240/120 <input type="checkbox"/> Single phase <input type="checkbox"/> 208/120 <input type="checkbox"/> Three phase <input type="checkbox"/> 480/277	Connected load	Demand load
	Connected amps	Demand amps

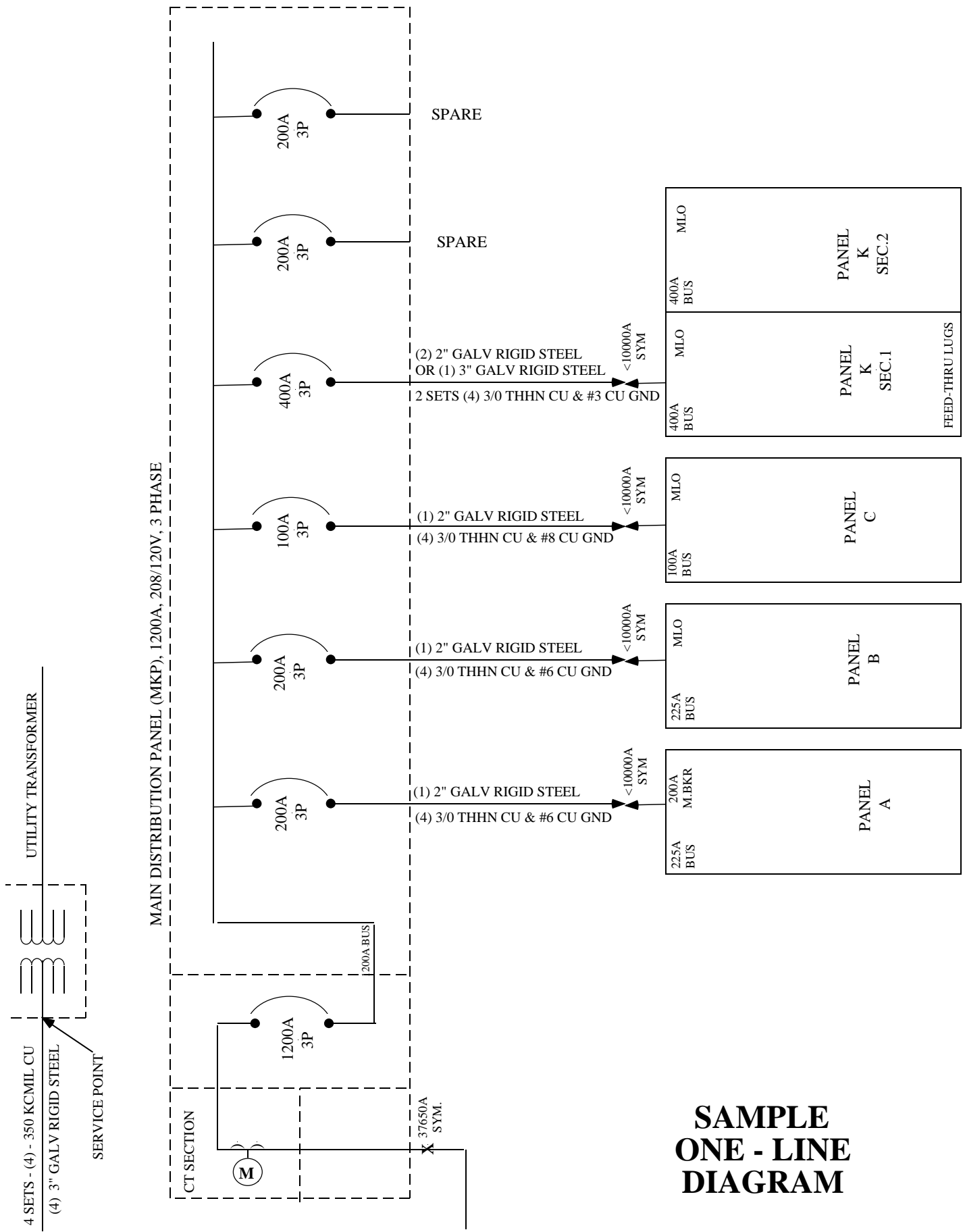
Definitions:

Connected load

1. The nameplate rating of all appliances that are fastened in place, permanently connected to located to be on specific circuit. (Water heaters, space heaters, ranges, refrigerators, etc.)
2. 180 VA for each general use receptacle
3. Maximum VA of lighting fixtures
4. Full load amps/KVA of all motors from Table 430-147, 148, 149 and 150 of the National Electric Code

Demand calculated load -

The connected load after any code required adjustment factor has been applied. Load calculations shall be submitted/expressed in KVA and converted to amps when sizing feeders and equipment.



SAMPLE ONE - LINE DIAGRAM

PANEL SCHEDULE

SINGLE PHASE

Panel _____

Location _____

Fed from _____

AIC 10K 42K 14K 65K 18K 100K 22K 150K 25K 200K

Bus Rating Main breaker _____ A Main lugs only _____ A Fed-thru lugs Double lugs

Single Phase 4-wire 3-wire Iso, GND

Voltage 240/120 208/120

	Circuit Description	Load (VA)	Code	Breaker	Bus	Breaker	Code	Load (VA)	Code	Breaker	Bus	Breaker	Code	Load (VA)	Circuit Description
1					A						A				2
3					B						B				4
5					A						A				6
7					B						B				8
9					A						A				10
11					B						B				12
13					A						A				14
15					B						B				16
17					A						A				18
19					B						B				20
21					A						A				22
23					B						B				24
25					A						A				26
27					B						B				28
29					A						A				30
31					B						B				32
33					A						A				34
35					B						B				36
37					A						A				38
39					B						B				40
41					A						A				42

Code description L = Lighting loads M = Total motor load S = Dedicated receptacles K = Kitchen equipment

 R = General use receptacles LM = Largest single motor H = HVAC Z = Miscellaneous or appliances

PANEL SCHEDULE

THREE PHASE

Bus Rating
 Main breaker _____ A 4-wire
 Main lugs only _____ A 3-wire
 Fed-thru lugs Iso, GND
 Double lugs

Voltage
 480/277
 240/120
 208/120

Panel
 Location _____
 Fed form _____

	10K	14K	18K	22K	25K	
	42K	65K	100K	150K	200K	

Circuit No.	Circuit Description	Load (VA)	Code	Breaker	Bus	Breaker	Code	Load (VA)	Code	Breaker	Bus	Breaker	Code	Load (VA)	Circuit Description	Circuit No.
1					A						A					2
3					B						B					4
5					A						A					6
7					B						B					8
9					A						A					10
11					B						B					12
13					A						A					14
15					B						B					16
17					A						A					18
19					B						B					20
21					A						A					22
23					B						B					24
25					A						A					26
27					B						B					28
29					A						A					30
31					B						B					32
33					A						A					34
35					B						B					36
37					A						A					38
39					B						B					40
41					A						A					42

For Postal Delivery
 Department of Labor and Industries
 Factory Assembled Structures
 PO Box 44430
 Olympia WA 98504-4430



FB
 CCF CH 11
 WA Only
 WA Rev/ORCourtesy
 OR Rev/WA Courtesy
 Other state reciprocity

For Non-Postal Delivery (e.g., FedX, UPS)
 Department of Labor and Industries
 Factory Assembled Structures
 7273 Linderson Way SW
 Tumwater WA 98501
 www.wa.gov/lni (case sensitive)

Applicant: Fill out completely

Manufacturer **1** Mfg No. **2**
 Plans to be returned to: Address
 City/State/ZIP

FOR DEPARTMENT USE ONLY
 Fee Ledger Sheet # Application ID
 Ap No. Date approved Expiration date

ELECTRICAL PLAN APPROVAL REQUEST
FACTORY BUILT STRUCTURES & COMMERCIAL COACHES

Contact person's printed name: **4** Date Fee enclosed \$
 Signature Phone No FAX No

5 New plan **6** Addendum **7** Renewal **8** Resubmittal Electrical service **9** Occupancy Group: **10**
 Plan Approval No Building Area Sq. Ft Amps Phase 1 3 Use: **11**
 Serial No.

Installation location: **13** City State ZIP+4 County

ELECTRICAL PLAN REVIEW (When required by WAC 296-46-140, Plan review for educational, institutional or health care facilities and other buildings. See WAC 296-150 C/F-3000 for fee schedule)	Unit	Unit Amount	Total Amount
Electrical plan submission fee 14			
Service/Feeder ampacity: Each design option is additional.			
0 - 100			
101 - 200			
201 - 400			
401 - 600			
601 - 800			
801 - 1000			
Over 1000			
F623-016-000 SAMPLE			
SEE			
INSTRUCTIONS			
ON REVERSE			
SIDE			
Over 600 volts surcharge			
Thermostats:			
First			
Each additional			
Low voltage fire alarm and burglar alarm:			
Each control panel and up to four circuits or zones			
Each additional circuit or zone			
Generators, refer to appropriate service/feeder ampacity fees			
Note: Altered services or feeders shall be charged to the fee schedule rate per the service/feeder ampacity fees			
Supplemental submission of plans (resubmittal, addendums, renewals, code updates, etc.) shall be charged per hour or fraction of an hour			
Total Fees Paid			\$

14 Please check the items submitted

1. Electrical floor plans, related drawings - minimum of two complete sets required. Number of sheets:
2. One line/riser diagram:
3. Specifications:
4. Load calculations:
5. Fault calculations:
6. Metered demand records:
7. Panel schedules: