


REVISIONS

NO.	DATE	DESCRIPTION
0	3-9-04	ISSUED FOR BID

REVISIONS

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DESIGNED BY: M.M.K.
CHECKED BY: M.M.K.
PROJECT MANAGER: S.G.L.
DATE: _____
DRAWN BY: _____
REV. _____
M.D.H. _____



OAKHURST DAIRY
NEW MILK COOLER

384 FOREST AVENUE
PORTLAND, MAINE 04101

PROJECT NUMBER: **0167.00**

DATE: **MARCH 1, 2004**

DRAWING TITLE: **SINGLE-LINE DIAGRAM AND SCHEDULES**

DRAWING NUMBER: **E100**

REGION: **0**

DISTRIBUTION PANEL: DP1 (I-LINE STYLE)

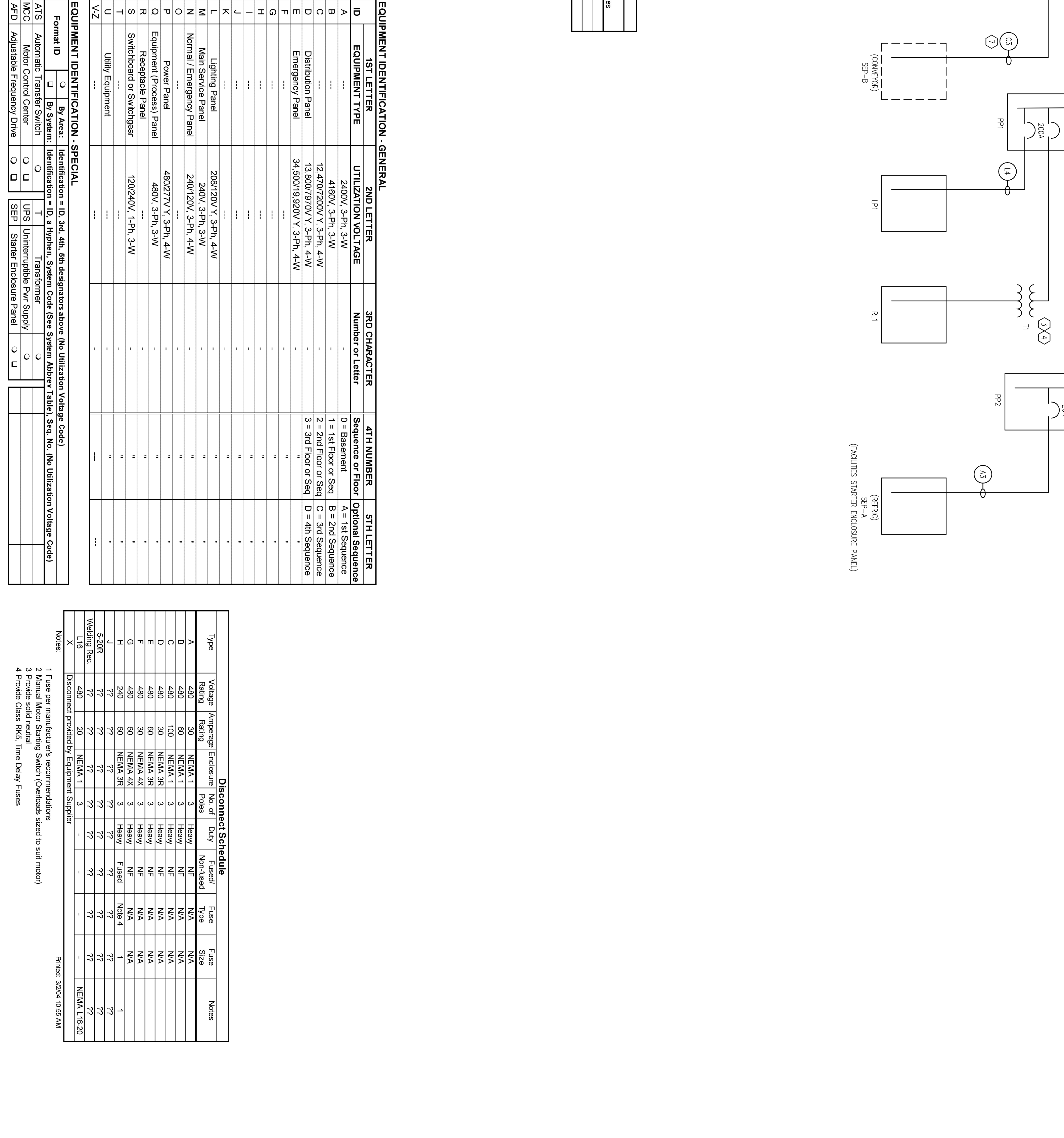
Panel No. 121, BUS: 225 A, WIRE: 4, MOUNTING SURFACE

NO.	RESIDUAL	NO. OF BREAKERS	NO. OF WIRING DEVICES	NO. OF DISCONNECTS	NO. OF FUSES	NO. OF CIRCUIT BREAKERS	NO. OF FUSES	NO. OF DISCONNECTS	NO. OF FUSES
1	Incoming Line Section	0	0	0	0	0	0	0	0
2	TWSS Feed Panel (SEF-B)	20	B3	CB	30	3	20	B3	CB
3	Busbar Changer (BC-2)	20	B3	CB	30	3	20	B3	CB
4	Air Compressor Future	25	D3	CB	70	3	25	D3	CB
5	Air Compressor Future	25	D3	CB	70	3	25	D3	CB
7	SPACE & PROVISION	-	-	-	-	-	-	-	-

SEE SINGLE-LINE DIAGRAM FOR OVERCURRENT PROTECTION TRIP SETTING AND CONDUCTOR SIZING.

Panel No. 121, BUS: 225 A, WIRE: 4, MOUNTING SURFACE

DESIGNATION	NO.	LOAD	CRT. BRK.	KEY	NO.	LOAD	NO.	DESIGNATION	NO.	LOAD	NO.	DESIGNATION
Lights, Rec'd Bay	A2	2.8	20	1	A	2	1	20H1	2.4	B2	1	Nightlight Court
Lights, Equip. Bay, Tools & Office	A2	0.8	20	1	B	4	1	20H1	1.0	B2	1	Emergency Lighting Circuit
Lights, Equip. Bay, Tools & Office	A2	0.8	20	1	B	4	1	20H1	1.0	B2	1	Emergency Lighting Circuit
Lights, Equip. Bay, Tools & Office	A2	0.8	20	1	B	4	1	20H1	1.0	B2	1	Emergency Lighting Circuit
Lights, Equip. Bay, Tools & Office	A2	0.8	20	1	B	4	1	20H1	1.0	B2	1	Emergency Lighting Circuit
Lights, Equip. Bay, Tools & Office	A2	0.8	20	1	B	4	1	20H1	1.0	B2	1	Emergency Lighting Circuit
Lights, Equip. Bay, Tools & Office	A2	0.8	20	1	B	4	1	20H1	1.0	B2	1	Emergency Lighting Circuit
Lights, Equip. Bay, Tools & Office	A2	0.8	20	1	B	4	1	20H1	1.0	B2	1	Emergency Lighting Circuit
Lights, Equip. Bay, Tools & Office	A2	0.8	20	1	B	4	1	20H1	1.0	B2	1	Emergency Lighting Circuit
Lights, Equip. Bay, Tools & Office	A2	0.8	20	1	B	4	1	20H1	1.0	B2	1	Emergency Lighting Circuit



TRANSFORMER SCHEDULE

TR No.	Rated KVA	Size	Enclosure	Primary Voltage	Secondary Voltage	Primary Current (Amps)	Secondary Current (Amps)	Terminals	Notes
T1	500	1.25	480	480	208Y/120	600	1390	6, 3, 3	1

WIRE TABLE

Wire Key	Conductors	Conduit	Wire Key	Conductors	Conduit
A3	2 x 4/0 AWG GND	3/4"	A3	4 x 4/0 AWG GND	2 1/2"
A4	2 x 2/0 AWG GND	3/4"	A4	4 x 2/0 AWG GND	2 1/2"
B2	2 x 1/0 AWG GND	3/4"	B2	4 x 1/0 AWG GND	2 1/2"
B3	3 x 1/0 AWG GND	3/4"	B3	3 x 1/0 AWG GND	2 1/2"
B4	4 x 1/0 AWG GND	3/4"	B4	4 x 1/0 AWG GND	2 1/2"
C2	2 x 1/2 AWG GND	3/4"	C2	2 x 1/2 AWG GND	2 1/2"
C3	3 x 1/2 AWG GND	3/4"	C3	3 x 1/2 AWG GND	2 1/2"
C4	4 x 1/2 AWG GND	3/4"	C4	4 x 1/2 AWG GND	2 1/2"
D2	2 x 1/4 AWG GND	3/4"	D2	2 x 1/4 AWG GND	2 1/2"
D3	3 x 1/4 AWG GND	3/4"	D3	3 x 1/4 AWG GND	2 1/2"
D4	4 x 1/4 AWG GND	3/4"	D4	4 x 1/4 AWG GND	2 1/2"
E2	2 x 1/8 AWG GND	3/4"	E2	2 x 1/8 AWG GND	2 1/2"
E3	3 x 1/8 AWG GND	3/4"	E3	3 x 1/8 AWG GND	2 1/2"
E4	4 x 1/8 AWG GND	3/4"	E4	4 x 1/8 AWG GND	2 1/2"
F2	2 x 1/16 AWG GND	3/4"	F2	2 x 1/16 AWG GND	2 1/2"
F3	3 x 1/16 AWG GND	3/4"	F3	3 x 1/16 AWG GND	2 1/2"
F4	4 x 1/16 AWG GND	3/4"	F4	4 x 1/16 AWG GND	2 1/2"
G2	2 x 3/32 AWG GND	3/4"	G2	2 x 3/32 AWG GND	2 1/2"
G3	3 x 3/32 AWG GND	3/4"	G3	3 x 3/32 AWG GND	2 1/2"
G4	4 x 3/32 AWG GND	3/4"	G4	4 x 3/32 AWG GND	2 1/2"
H2	2 x 1/16" Bare GND	3/4"	H2	2 x 1/16" Bare GND	2 1/2"
H3	3 x 1/16" Bare GND	3/4"	H3	3 x 1/16" Bare GND	2 1/2"
H4	4 x 1/16" Bare GND	3/4"	H4	4 x 1/16" Bare GND	2 1/2"
I2	2 x 1/32 AWG GND	3/4"	I2	2 x 1/32 AWG GND	2 1/2"
I3	3 x 1/32 AWG GND	3/4"	I3	3 x 1/32 AWG GND	2 1/2"
I4	4 x 1/32 AWG GND	3/4"	I4	4 x 1/32 AWG GND	2 1/2"
J2	2 x 1/64 AWG GND	3/4"	J2	2 x 1/64 AWG GND	2 1/2"
J3	3 x 1/64 AWG GND	3/4"	J3	3 x 1/64 AWG GND	2 1/2"
J4	4 x 1/64 AWG GND	3/4"	J4	4 x 1/64 AWG GND	2 1/2"

WIRE TABLE

Wire Key	Conductors	Conduit	Wire Key	Conductors	Conduit
A3	4 x 4/0 AWG GND	2 1/2"	A3	4 x 4/0 AWG GND	2 1/2"
A4	4 x 2/0 AWG GND	2 1/2"	A4	4 x 2/0 AWG GND	2 1/2"
B2	4 x 1/0 AWG GND	2 1/2"	B2	4 x 1/0 AWG GND	2 1/2"
B3	3 x 1/0 AWG GND	2 1/2"	B3	3 x 1/0 AWG GND	2 1/2"
B4	4 x 1/0 AWG GND	2 1/2"	B4	4 x 1/0 AWG GND	2 1/2"
C2	4 x 1/2 AWG GND	2 1/2"	C2	4 x 1/2 AWG GND	2 1/2"
C3	3 x 1/2 AWG GND	2 1/2"	C3	3 x 1/2 AWG GND	2 1/2"
C4	4 x 1/2 AWG GND	2 1/2"	C4	4 x 1/2 AWG GND	2 1/2"
D2	4 x 1/4 AWG GND	2 1/2"	D2	4 x 1/4 AWG GND	2 1/2"
D3	3 x 1/4 AWG GND	2 1/2"	D3	3 x 1/4 AWG GND	2 1/2"
D4	4 x 1/4 AWG GND	2 1/2"	D4	4 x 1/4 AWG GND	2 1/2"
E2	4 x 1/8 AWG GND	2 1/2"	E2	4 x 1/8 AWG GND	2 1/2"
E3	3 x 1/8 AWG GND	2 1/2"	E3	3 x 1/8 AWG GND	2 1/2"
E4	4 x 1/8 AWG GND	2 1/2"	E4	4 x 1/8 AWG GND	2 1/2"
F2	4 x 1/16 AWG GND	2 1/2"	F2	4 x 1/16 AWG GND	2 1/2"
F3	3 x 1/16 AWG GND	2 1/2"	F3	3 x 1/16 AWG GND	2 1/2"
F4	4 x 1/16 AWG GND	2 1/2"	F4	4 x 1/16 AWG GND	2 1/2"
G2	4 x 3/32 AWG GND	2 1/2"	G2	4 x 3/32 AWG GND	2 1/2"
G3	3 x 3/32 AWG GND	2 1/2"	G3	3 x 3/32 AWG GND	2 1/2"
G4	4 x 3/32 AWG GND	2 1/2"	G4	4 x 3/32 AWG GND	2 1/2"
H2	4 x 1/16" Bare GND	2 1/2"	H2	4 x 1/16" Bare GND	2 1/2"
H3	3 x 1/16" Bare GND	2 1/2"	H3	3 x 1/16" Bare GND	2 1/2"
H4	4 x 1/16" Bare GND	2 1/2"	H4	4 x 1/16" Bare GND	2 1/2"
I2	4 x 1/32 AWG GND	2 1/2"	I2	4 x 1/32 AWG GND	2 1/2"
I3	3 x 1/32 AWG GND	2 1/2"	I3	3 x 1/32 AWG GND	2 1/2"
I4	4 x 1/32 AWG GND	2 1/2"	I4	4 x 1/32 AWG GND	2 1/2"
J2	4 x 1/64 AWG GND	2 1/2"	J2	4 x 1/64 AWG GND	2 1/2"
J3	3 x 1/64 AWG GND	2 1/2"	J3	3 x 1/64 AWG GND	2 1/2"
J4	4 x 1/64 AWG GND	2 1/2"	J4	4 x 1/64 AWG GND	2 1/2"