

January 20, 2023

VIA ELECTRONIC FILING

Public Utility Commission of Oregon
Attn: Filing Center
201 High Street SE, Suite 100
Salem, Oregon 97301-3398

Re: UI ____—PacifiCorp Application Requesting Approval for an Affiliate Interest Transaction with Bridger Coal Company

PacifiCorp d/b/a Pacific Power encloses for filing its Application Requesting Approval of an Affiliate Interest Transaction with Bridger Coal Company.

PacifiCorp respectfully requests that all data requests regarding this matter be addressed to:

By email (preferred): datarequest@pacificorp.com

By regular mail: Data Request Response Center
PacifiCorp
825 N.E. Multnomah St., Ste. 2000
Portland OR 97232-2152

Please direct any informal questions concerning this filing to Jennifer Angell, Regulatory Project Manager, at (503) 331-4414.

Sincerely,



Matthew McVee
Vice President, Regulatory Policy and Operations

Enclosures

**BEFORE THE PUBLIC UTILITY COMMISSION
OF OREGON**

UI _____

In the Matter of

PACIFICORP d/b/a PACIFIC POWER

Application for Approval of an Affiliated
Transaction with Bridger Coal Company.

APPLICATION OF PACIFICORP

Under ORS 757.495 and in accordance with OAR 860-027-0040, PacifiCorp d/b/a Pacific Power (PacifiCorp or Company) seeks approval from the Public Utility Commission of Oregon (Commission) of an affiliated transaction with the Bridger Coal Company (Bridger) to enter into a contract through which Bridger will sell one MagneTek Viking Power 3-Phase 60 hertz (Hz) transformer and one General Electric 3-Phase 60 Hz transformer (collectively, the Transformers) to PacifiCorp. The transaction will be realized through a purchase and sale agreement (the Agreement). A verified copy of the Agreement, bill of sale, and invoice are included with this notice respectively as Attachment A, Attachment B, and Attachment C. PacifiCorp respectfully requests that the Commission approve the transaction as an affiliated interest agreement.

I. BACKGROUND

PacifiCorp, an Oregon corporation, is the direct 100 percent owner of Pacific Minerals, Inc., a Wyoming corporation. In turn Pacific Minerals, Inc., holds a 67 percent ownership interest in Bridger, a Wyoming joint venture company. “Affiliated interest,” as defined in ORS 757.015(3), includes every corporation five percent or more of whose voting securities are owned by any corporation or person owning five percent of the voting securities of a public utility or in any successive chain of ownership of a public utility.

Therefore, PacifiCorp's indirect ownership interest in Bridger through Pacific Minerals, Inc., creates an affiliated interest between PacifiCorp and Bridger.

With this Application, PacifiCorp requests Commission authorization for this affiliate interest transaction with Bridger as described herein.

II. COMPLIANCE WITH OAR 860-027-0040 FILING REQUIREMENTS

A. Name and Address

PacifiCorp's exact name and address of its principal business office are:

PacifiCorp
825 NE Multnomah Street
Portland, OR 97232-2152

B. Communications and Notices

All notices and communications concerning this Application should be addressed to:

Ajay Kumar
Senior Attorney
825 NE Multnomah Street, Suite 2000
Portland, Oregon 97232-2152
Telephone: (503) 813-5161
Email: ajay.kumar@pacificorp.com

PacifiCorp Oregon Dockets
825 NE Multnomah Street, Suite 2000
Portland, Oregon 97232-2152
Email: OregonDockets@pacificorp.com

Additionally, PacifiCorp respectfully requests that all information requests regarding this matter be addressed to:

By email (**preferred**)

datarequest@pacificorp.com

By regular mail

Data Request Response Center
PacifiCorp
825 NE Multnomah Street, Suite 2000
Portland Oregon 97232-2152

Informal inquires may also be directed to Jennifer Angell, Regulatory Project Manager, at (503) 331-4414.

C. Relationship Between PacifiCorp and Affiliated Interest

As noted above, Pacific Minerals, Inc., a direct, wholly-owned subsidiary of PacifiCorp owns two-thirds of Bridger. ORS 757.015(3) defines affiliated interests to include corporations with at least five percent ownership interest in voting securities issued by a utility or in any chain of successive ownership of a utility. Thus, through Pacific Minerals, Inc., PacifiCorp, and Bridger are affiliates.

D. Voting Securities

PacifiCorp's directly, wholly-owned subsidiary, Pacific Minerals, Inc., holds an ownership interest in Bridger equivalent to 67 percent.

E. Common Officers and Directors

Gary Hoogeveen is a director of PacifiCorp and serves as president and chief executive officer of Rocky Mountain Power, an unincorporated division of PacifiCorp. Gary Hoogeveen also serves as director and president of Pacific Minerals, Inc., a parent of Bridger.

Nikki Kobliha is a director of PacifiCorp and serves as a vice president, the chief financial officer and the treasurer of the Company. Nikki Kobliha also serves as the treasurer of Pacific Minerals, Inc.

F. Pecuniary Interest

No officer or director of PacifiCorp or Bridger is a party to, or has a pecuniary interest in, the contemplated business transaction between the companies.

G. Description of Goods and Services Provided, Cost(s) Incurred; Market Value; Pricing Methods

Bridger originally purchased the Transformers for \$556,193. The present value of the Transformers to be purchased by PacifiCorp, doing business as Rocky Mountain Power, under the Agreement is approximately \$355,950. Bridger offered the specified equipment to PacifiCorp at the best cost and terms when compared to other options on the market, along with a premium that benefits PacifiCorp's customers. Thus, the use of Bridger as supplier of the Transformers under the Agreement is in the public interest.

H. Estimate of Amount PacifiCorp will Pay or Collect Annually

PacifiCorp will pay Bridger approximately \$355,950 in total for the Transformers.

I. Reasons Relied Upon for Providing the Proposed Services, and Benefits to the Public

See Section II.G above.

J. Description of the Procurement Process

See Section II.G above.

K. Relationship of Cost of Provision of Services and Market Value

See Section II.G above.

L. Contract Between Affiliated Interest and PacifiCorp

Copies of the Agreement, bill of sale and invoice are included with this notice respectively as Attachment A, Attachment B, and Attachment C.

M. Copy of Board Resolutions

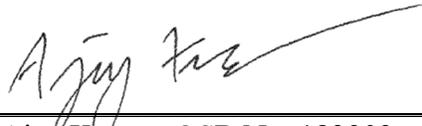
Execution of this transaction does not require approval from PacifiCorp's Board of Directors.

III. PRAYER FOR RELIEF

For the reasons set forth above, PacifiCorp respectfully requests that the Commission issue an order (1) finding that the sale of the Transformers is consistent with the public interest; and (2) approving the Agreement as an affiliated interest transaction.

Respectfully submitted this 20th day of January 2023.

By:



Ajay Kumar, OSB No. 183903
Senior Attorney

ATTACHMENT A
AGREEMENT

PURCHASE AND SALE AGREEMENT

(TRANSFORMERS)

THIS PURCHASE AND SALE AGREEMENT (“**Agreement**”), dated 24 of October, 2022 (“**Effective Date**”), is executed and delivered by and between Bridger Coal Company (“**Seller**”), a joint venture of Pacific Minerals, Inc., a Wyoming corporation and wholly owned subsidiary of Buyer, and Idaho Energy Resources Co., a Wyoming corporation, and PacifiCorp, an Oregon corporation (“**Buyer**,” together the “**Parties**,” and each individually a “**Party**”).

WHEREAS, Seller is the owner of one MagneTek Viking Power 3-Phase 60 HZ transformer, and one General Electric 3-Phase 60 HZ transformer located at 932 Nine Mile Road, Point of Rocks, Wyoming 82942 (“**Transformers**”).

WHEREAS, Seller has agreed to sell, and Buyer has agreed to buy, all of Seller’s right, title and interest in the Transformers.

NOW, THEREFORE, in consideration of the mutual promises and agreements contained herein, and other good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, the Parties, intending to be legally bound, hereby agree as follows:

1. Purchase and Sale of Equipment. Seller hereby sells, conveys, transfers, and assigns, including all of Seller’s rights in and to the Transformers described on Schedule A (the “**Sold Equipment**”) attached hereto, to Buyer, and Buyer accepts all of Seller’s right, title and interest in and to the Sold Equipment. Payment of the Payment amount shall be made by Seller to Buyer within five (5) business days of the execution of this agreement by all Parties.

2. Title; Delivery; Costs. Title and risk of loss (including responsibility to insure) to the Sold Equipment shall transfer to Buyer on the Effective Date. Buyer shall take delivery from Seller at the current location of the Sold Equipment. Buyer shall be responsible for all costs related to the Sold Equipment from and after the Effective Date.

3. Covenants. Seller hereby covenants to be bound by and comply with this Agreement in respect of the Sold Equipment.

4. Successors and Assigns. The terms and provisions of this Agreement are binding upon, inure to the benefit of, and are enforceable by the Parties and their respective successors and permitted assigns.

5. Amendment. This Agreement may not be amended, supplemented or modified except by an instrument in writing signed on behalf of Seller and Buyer.

6. Severability; Modification. If any term or provision of this Agreement is invalid, illegal, or incapable of being enforced by law or public policy, all other terms and provisions of this Agreement shall nevertheless remain in full force and effect so long as the legal substance of the transactions contemplated hereby is not affected in any matter materially adverse to any Party. Upon such determination that any term or provision is invalid, illegal or incapable of being enforced, the Parties shall negotiate in good faith to modify this Agreement so as to affect the original intent of the Parties as closely as possible in an acceptable manner in order that the

transactions contemplated hereby are consummated as originally contemplated to the greatest extent possible.

7. Governing Law. This Agreement shall be governed by and construed in accordance with the Laws of the State of Wyoming without reference to any conflicts of law provisions.

8. Jury Trial Waiver. TO THE FULLEST EXTENT PERMITTED BY LAW, EACH OF THE PARTIES HERETO WAIVES ANY RIGHT IT MAY HAVE TO A TRIAL BY JURY IN RESPECT OF LITIGATION DIRECTLY OR INDIRECTLY ARISING OUT OF, UNDER OR IN CONNECTION WITH THIS AGREEMENT. EACH PARTY FURTHER WAIVES ANY RIGHT TO CONSOLIDATE ANY ACTION IN WHICH A JURY TRIAL HAS BEEN WAIVED WITH ANY OTHER ACTION IN WHICH A JURY TRIAL CANNOT BE OR HAS NOT BEEN WAIVED.

[signature page follows]

IN WITNESS WHEREOF, the Parties have caused this Agreement to be duly executed by their authorized representatives as of the date first above written.

SELLER:

Bridger Coal Company,
a Wyoming joint venture

By: Jon C. Brown

Name: Jon C. Brown

Title: General Manager

BUYER:

PACIFICORP
an Oregon corporation

By: Russell Updike

Name: Russell Updike

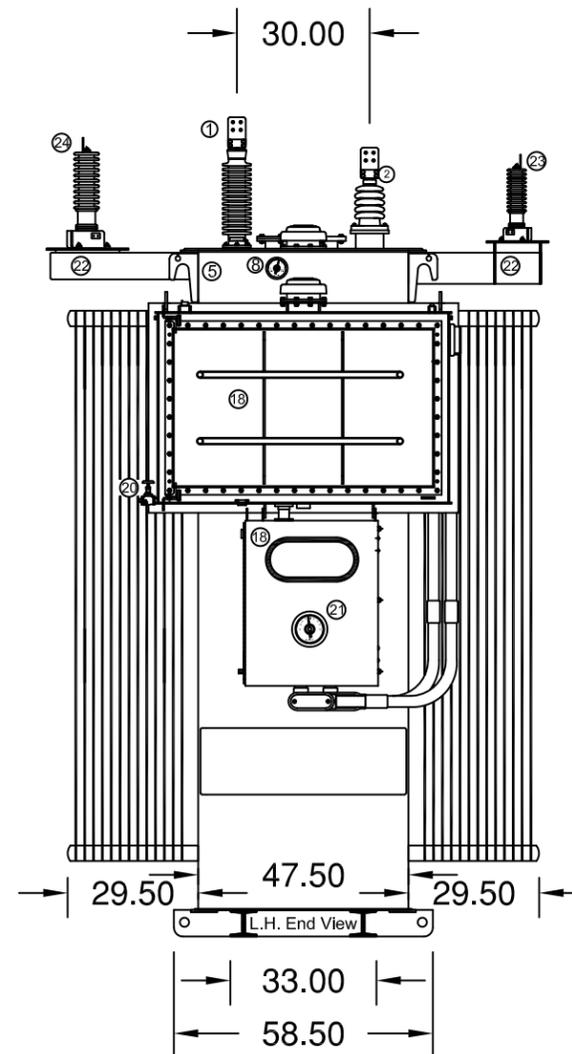
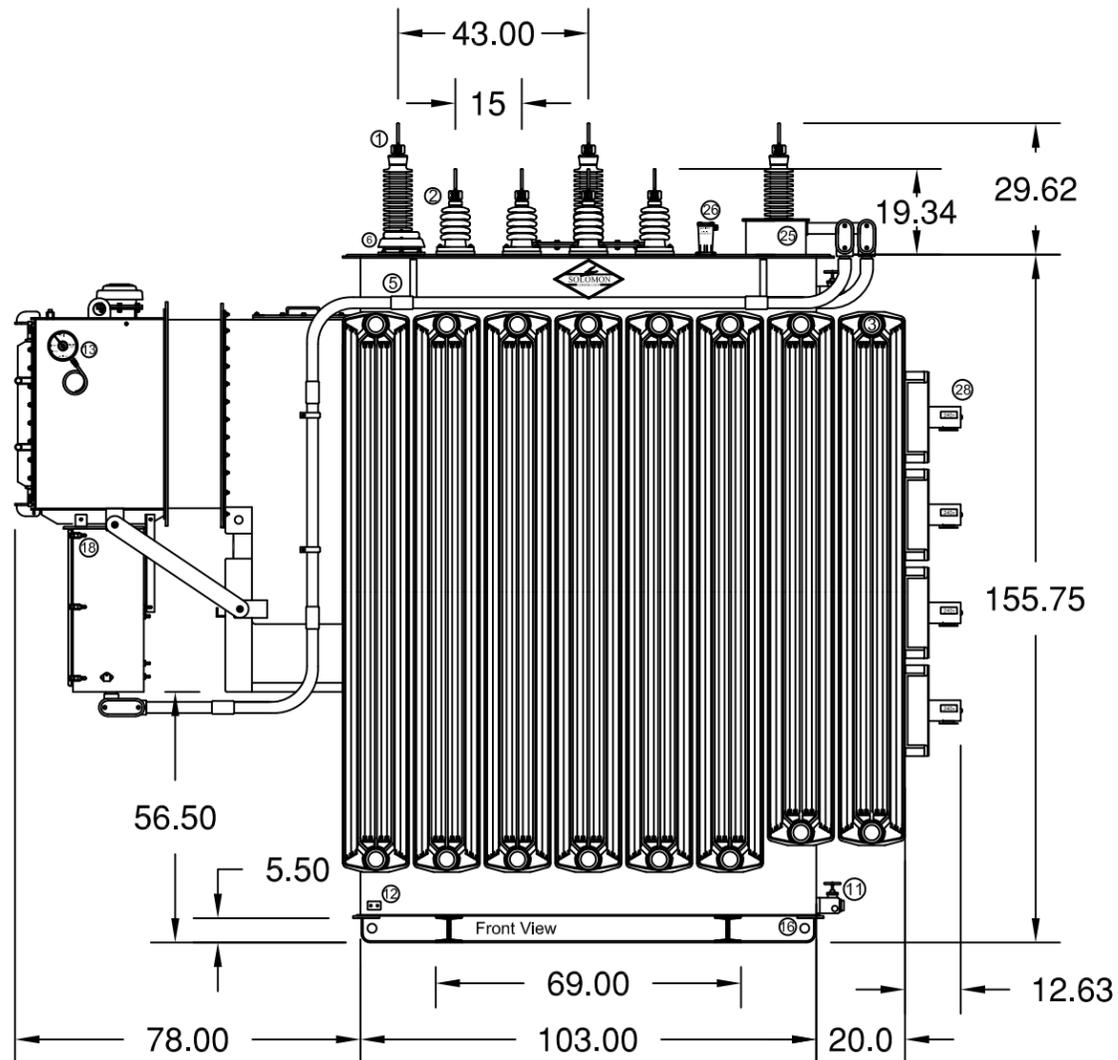
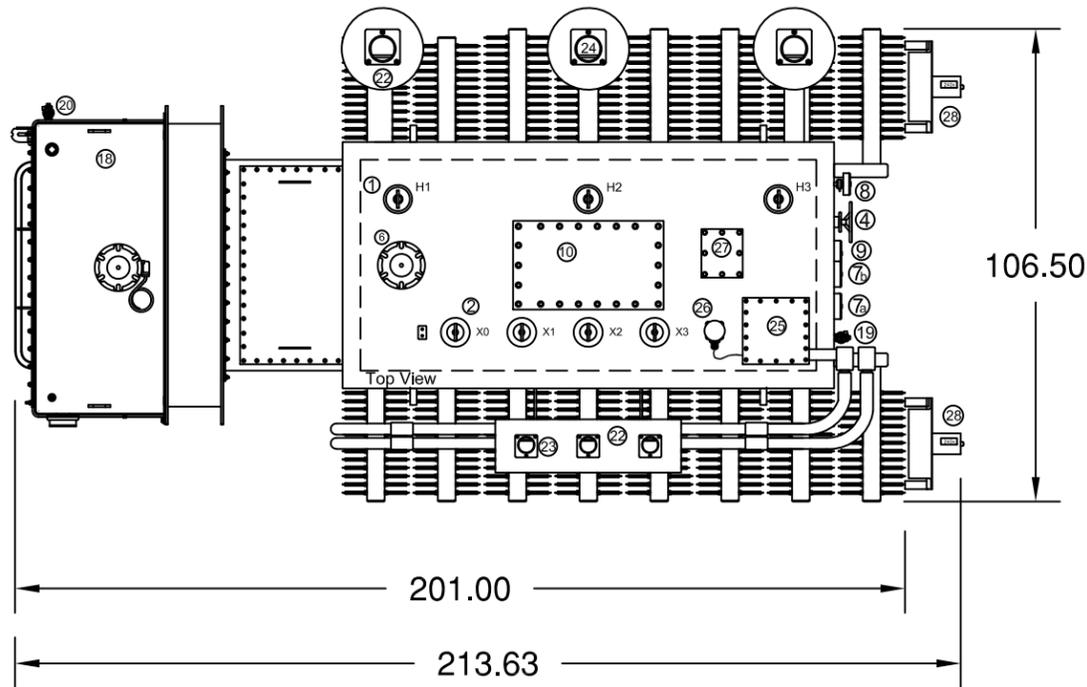
Title: Director

THREE PHASE SUBSTATION TRANSFORMER

15000/20000 KVA AT 65° C RISE OA/FA
 PRIMARY VOLTAGE: 34500 DELTA BIL: 200 KV
 SECONDARY VOLTAGE: 12470Y/7200 BIL: 110 KV
 PRIMARY TAPS: + - 5% FCAN & BN
 SECONDARY TAPS: +-16 @ 5/8% Taps
 HERTZ : 60 CYCLES

WEIGHTS & GALS.
 MAIN OIL GAL : 3024
 LTC OIL GAL : 170
 C & C WT : 36625
 TANK WT : 26800
 OIL WT : 23955
 TOTAL WT : 87380

NOTE:
 1. Arrestors and Arrestor brackets not shown on Front View.



1	35 KV HV LAPP Bushings 1.125" Stud w/4Hole Spade Solomon # 821
2	15 KV LV Bushings 1.125" Stud w/4Hole Spade Warco #41A05099-9
3	Cooling Radiators
4	HV TapChanger Handle (De-Energized Operation) Right End of Tank
5	Lifting Hooks
6	Explosion Relief Device Sol. # 849
7	Qualitrol (a) Oil Temp. #104-317-01 (b) Winding Temp #104-318-01
8	Main Tank Pressure/Vac Gauge w/Bleeder Solomon# 142
9	Main Tank Liquid Level Gauge Solomon# 1205
10	Bolt-On Inspection/Manhole Cover (34" X 20")
11	Drain Valve (Main Tank)
12	Grounding Pad
13	LTC Tank Liquid Level Gauge Solomon# 1205
14	Laser Etched Nameplate (Anodized Aluminum) Right end of tank
15	LTC Liquid Temperature Gauge Solomon# 173
16	Jacking Pads
17	LTC Tank Pressure/Vac. Gauge (N/A - Unit is Free Breathing)
18	LTC Tank and Control Cabinet w/ Fan Controls
19	Top Fill Valve (Main Tank)
20	Drain Valve (LTC Tank)
21	LTC Position Indicator
22	HV & LV Arrestor Brackets
23	LV Arrestors 15 KV (12.7 KV MCOV) #217 013
24	HV Arrestors 27 KV (22 KV MCOV) #217 022
25	Terminal Block-CT Wiring Junction Box
26	Rapid Pressure Rise Relay Qualitrol # 910-010-03
27	Core Ground Bushing Enclosure
28	Krenz Cooling Fans (7) #F16-A7839 .25HP / 1750 RPM / 230v
29	

SOLOMON CORPORATION
 SOLOMON, KANSAS
 (785) 655-2191

SERIAL # 44745
 JOB # 19947

<p>TRANSFORMER VOLTAGES</p> <p>PRIMARY 34500 DELTA</p> <p>SECONDARY 12470Y/7200</p>	<p>THREE PHASE 60 HERTZ POWER CLASS LTC TRANSFORMER</p> <p>KV-BIL FULL WAVE IMPULSE LEVEL H1,H2,H3=200 X0,X1,X2,X3=110</p> <p>IMPEDANCE VOLTS <u>8.0</u> % AT 85°C - 15000KVA 34500 - 12470</p>	<p>FULL LOAD CONTINUOUSLY 15000/20000 KVA OA/FA 65°C RISE</p>
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*** HV WINDING CONNECTIONS**

WINDING	VOLTS	AMP KVA	DIAL POSITION	CONNECTS
HIGH	36325	239.07	1 / A	A TO B
HIGH	35363	244.50	2 / B	B TO C
VOLTAGE	34500	251.02	3 / C	D TO C
DELTA	33638	257.48	4 / D	D TO E
	32775	264.23	5 / E	E TO F

LV CONNECTIONS

VOLTS	AMPS	DIAL	REVERSING
L-L	15000	POSITION	CONTACTS ON
12470	673.50	1	11-11-11
12470	673.50	2	12-12-12
12470	673.50	3	13-13-13
12470	673.50	4	14-14-14
12470	673.50	5	15-15-15
12470	673.50	6	16-16-16
12470	673.50	7	17-17-17
12470	673.50	8	18-18-18
12470	673.50	9	19-19-19
12470	673.50	10	20-20-20
12470	673.50	11	21-21-21
12470	673.50	12	22-22-22
12470	673.50	13	23-23-23
12470	673.50	14	24-24-24
12470	673.50	15	25-25-25
12470	673.50	16	26-26-26
12470	673.50	17	27-27-27
12470	673.50	18	28-28-28
12470	673.50	19	29-29-29
12470	673.50	20	30-30-30

APPROXIMATE WEIGHTS EXPRESSED IN U.S. POUNDS

TOTAL - 87380 lbs.
 UNTANKING (CORE&C) - 36625 lbs.
 TANK AND FITTINGS - 26800 lbs.

LTC TANK - 170 GALS. MAIN TANK - 3024 - 23955 lbs.

30 DEGREE PHASE SHIFT

HV WINDING

LV WINDING

THE 25°C LIQUID LEVEL IS 15.5 INCHES BELOW TOP OF HIGHEST MAN-HOLE FLANGE. LIQUID LEVEL CHANGES 1.12 INCHES FOR EACH 10°C CHANGE IN AVERAGE LIQUID TEMPERATURE. THE MAXIMUM OPERATING PRESSURES OF LIQUID PRESERVATION SYSTEM: 8.0 PSF POS. TO 8.0 PSF NEG. FILLED WITH NON-PCB OIL AT TIME OF REMANUFACTURE. TANK IS SUITABLE FOR 14.7 LBS VACUUM FILLING. * THE TRANSFORMER MUST NOT BE ENERGIZED FROM ANY VOLTAGE SOURCE WHEN HV TAP CHANGER IS OPERATED. LOC-CT IS 1200S AMP FOR USE WITH LOAD TAP CHANGER. ■ POLARITY MARK. ORIGINAL MFG. - FEDERAL PACIFIC LTC MECHANISM - Ref: Pat. # 2,811,000 DATE OF REMFG. - JULY 2005 MADE IN U.S.A.

Nameplate Actual Size - 12" x 17.0"



TRANSFORMER VOLTAGES

PRIMARY

34500 DELTA

SECONDARY

12470Y/7200

**THREE PHASE 60 HERTZ
 POWER CLASS LTC TRANSFORMER**

KV-BIL FULL WAVE IMPULSE LEVEL
 H1,H2,H3= 200 XO,X1,X2,X3=110

IMPEDANCE VOLTS 8.0 %
 AT 85°C - 15000KVA 34500 - 12470

FULL LOAD CONTINUOUSLY
 15000/20000 KVA OA/FA
 65°C RISE

SERIAL # 44745

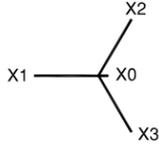
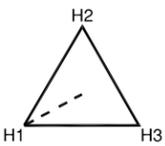
JOB # 19947

*** HV WINDING CONNECTIONS**

WINDING	VOLTS	AMP 15000 KVA	DIAL POSITION	CONNECTS
HIGH VOLTAGE DELTA	36225	239.07	1 / A	A TO B
	35363	244.90	2 / B	B TO C
	34500	251.02	3 / C	D TO C
	33638	257.45	4 / D	D TO E
	32775	264.23	5 / E	E TO F

APPROXIMATE WEIGHTS EXPRESSED IN U.S. POUNDS

TOTAL --- 87380 lbs.
 UNTANKING (CORE&COIL) --- 36625 lbs.
 TANK AND FITTINGS --- 26800 lbs.
 LTC TANK --- 170 GALS. MAIN TANK --- 3024 GALS. --- 23955 lbs.

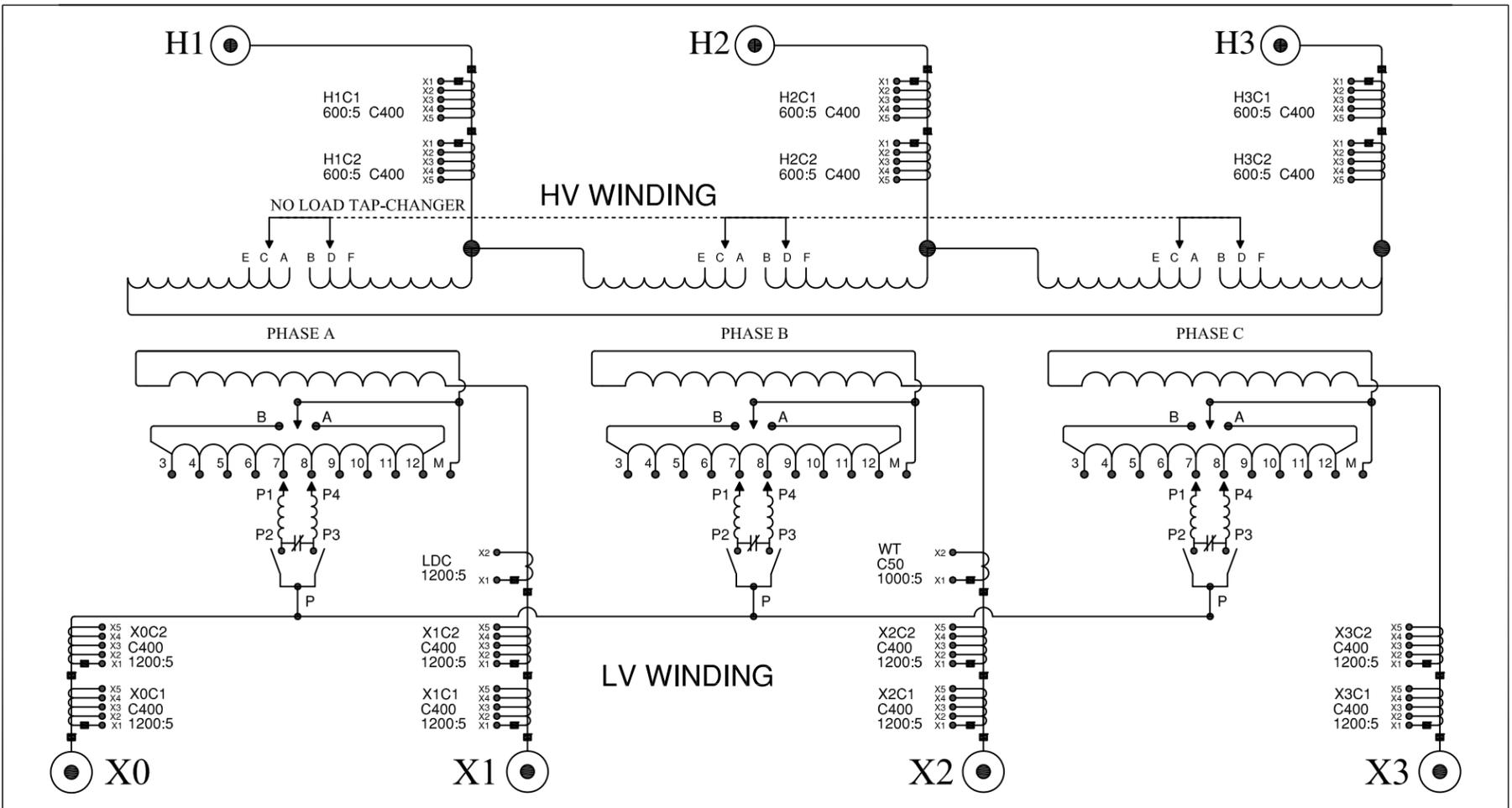


30 DEGREE PHASE SHIFT

LV CONNECTIONS

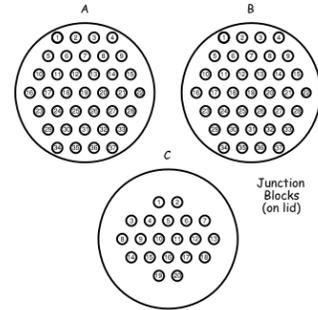
VOLTS L - L	AMPS 15000 KVA	MECHANISM		REVERSING SWITCH ON
		DIAL POS	CONTACTS ON	
13718	631.31	16	11 + 11	B
13640	634.92	15	10 + 11	
13562	638.57	14	10 + 10	
13466	643.12	13	9 + 10	
13406	646.00	12	9 + 9	
13328	649.78	11	8 + 9	
13250	653.60	10	8 + 8	
13172	657.47	9	7 + 8	
13094	661.39	8	7 + 7	
13016	665.35	7	6 + 7	
12938	669.37	6	6 + 6	
12861	673.37	5	5 + 6	
12783	677.48	4	5 + 5	
12705	681.64	3	4 + 5	
12627	685.85	2	4 + 4	
12549	690.12	1	M + 4	
12470		N	M + M	
12393		1	11 + M	A
12315		2	11 + 11	
12237		3	10 + 11	
12159		4	10 + 10	
12081		5	9 + 10	
12003		6	9 + 9	
11925		7	8 + 9	
11847		8	8 + 8	
11769		9	7 + 8	
11691		10	7 + 7	
11613		11	6 + 7	
11535		12	6 + 6	
11458		13	5 + 6	
11380		14	5 + 5	
11302		15	4 + 5	
11224		16	4 + 4	

694.49



THE 25°C LIQUID LEVEL IS 15.5 INCHES BELOW TOP OF HIGHEST MANHOLE FLANGE.
 LIQUID LEVEL CHANGES 1.12 INCHES FOR EACH 10°C CHANGE IN AVERAGE LIQUID TEMPERATURE.
 THE MAXIMUM OPERATING PRESSURES OF LIQUID PRESERVATION SYSTEM 8.0 PSI POS. TO 8.0 PSI NEG.
 FILLED WITH NON-PCB OIL AT TIME OF REMANUFACTURE. TANK IS SUITABLE FOR 14.7 LBS VACUUM FILLING.
 * THE TRANSFORMER MUST NOT BE ENERGIZED FROM ANY VOLTAGE SOURCE WHEN HV TAP CHANGER IS OPERATED.
 LDC-CT IS 1200:5 AMP FOR USE WITH LOAD TAP CHANGER. ■ = POLARITY MARK

ORIGINAL MFG. - FEDERAL PACIFIC
 LTC MECHANISM - Reinhausen RMV-II 1500
 DATE OF REMFG. - JULY 2005
 MADE IN U.S.A.

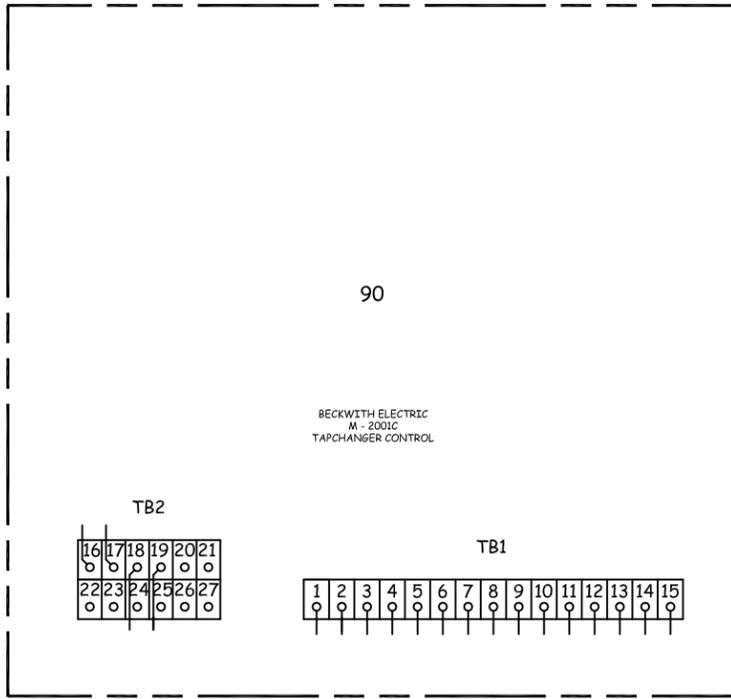
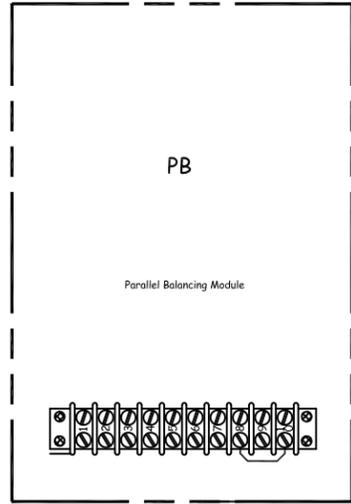


Junction Blocks (on lid)

Current Xfmr's	X1	X2	X3	X4	X5	Junction Block Number
X1C1	1	2	3	4	5	
X1C2	6	7	8	9	10	B
X2C1	11	12	13	14	15	C
X2C2	16	17	18	19	20	
X3C1	21	22	23	24	25	
X3C2	26	27	28	29	30	
H1C1	1	2	3	4	5	
H1C2	6	7	8	9	10	
H2C1	11	12	13	14	15	
H2C2	16	17	18	19	20	
H3C1	21	22	23	24	25	
H3C2	26	27	28	29	30	
X0C1	1	2	3	4	5	
X0C2	6	7	8	9	10	
DC C1	11	12	13	14	15	
WT C1	15	16				

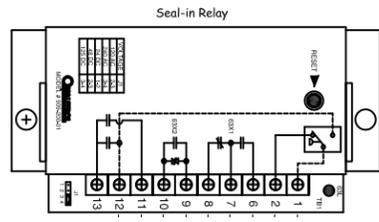
Current Transformers	Tap	500A
X1-X2	100%	
X3-X4	100%	
X5-X6	100%	
X7-X8	100%	
X9-X10	100%	
X11-X12	100%	
X13-X14	100%	
X15-X16	100%	
X17-X18	100%	
X19-X20	100%	
X21-X22	100%	
X23-X24	100%	
X25-X26	100%	
X27-X28	100%	
X29-X30	100%	

Current Transformers	Tap	1200A
X1-X2	100%	
X3-X4	100%	
X5-X6	100%	
X7-X8	100%	
X9-X10	100%	
X11-X12	100%	
X13-X14	100%	
X15-X16	100%	
X17-X18	100%	
X19-X20	100%	
X21-X22	100%	
X23-X24	100%	
X25-X26	100%	
X27-X28	100%	
X29-X30	100%	

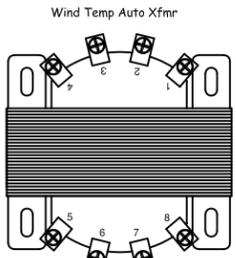


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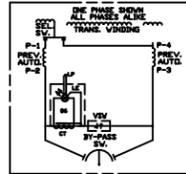
BECKWITH ELECTRIC
M - 2001C
TAPCHANGER CONTROL



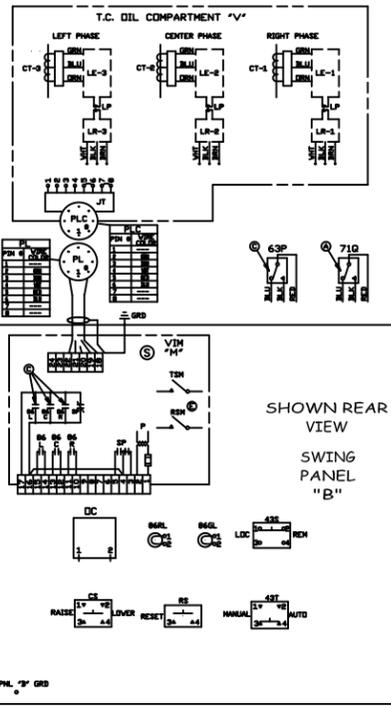
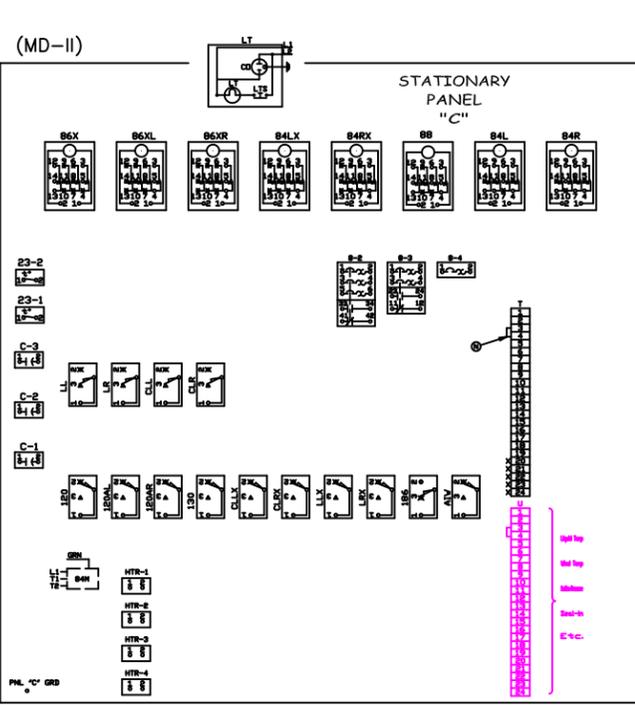
Seal-in Relay



Wind Temp Auto Xfmr



- NOTE:**
- Ⓐ CONTACT (BLK-RED) CLOSSES ON LOW OIL LEVEL.
 - Ⓑ CONTACT MUST BE MANUALLY RESET AFTER TRIPPING.
 - Ⓒ WARNING: DO NOT RESET UNTIL LTC HAS BEEN INSPECTED AND PROBLEM CORRECTED.
 - Ⓓ MOTOR GROUND TO BE ATTACHED TO THERMOSTAT HARDWARE.
 - Ⓔ AUXILIARY CONTACTS.
 - Ⓕ SHIELDED CABLE.
 - Ⓖ TERMINAL JUMPER (DO NOT REMOVE)
 - Ⓗ WARNING: DO NOT HIPOT VIM. DISCONNECT H1,M2,M4,M5 & M7 BEFORE HIPOT TEST.



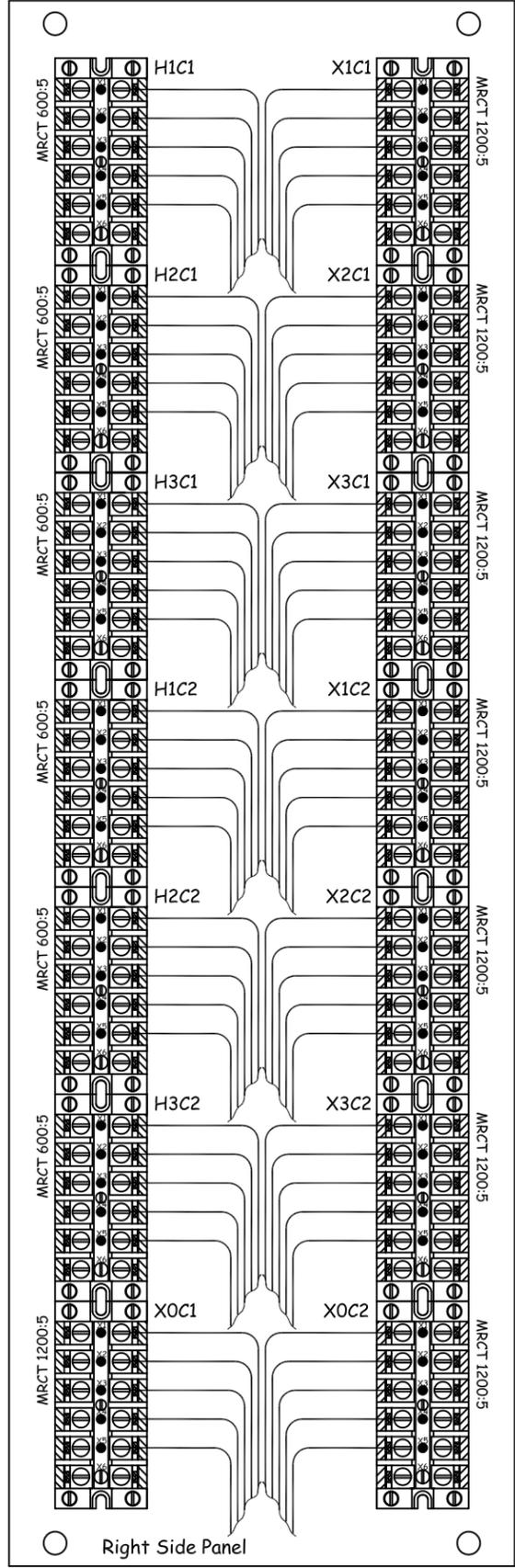
WIRE CONNECTIONS FROM DEVICE TO DEVICE	
WIRE CODE	DESTINATION
V1F-BAL	1 BAL 1
V1F-BAL	2 BAL 2
V1F-BAL	3 BAL 3
V1F-BAL	4 BAL 4
V1F-BAL	5 BAL 5
V1F-BAL	6 BAL 6
V1F-BAL	7 BAL 7
V1F-BAL	8 BAL 8
V1F-BAL	9 BAL 9
V1F-BAL	10 BAL 10
V1F-BAL	11 BAL 11
V1F-BAL	12 BAL 12
V1F-BAL	13 BAL 13
V1F-BAL	14 BAL 14
V1F-BAL	15 BAL 15
V1F-BAL	16 BAL 16
V1F-BAL	17 BAL 17
V1F-BAL	18 BAL 18
V1F-BAL	19 BAL 19
V1F-BAL	20 BAL 20
V1F-BAL	21 BAL 21
V1F-BAL	22 BAL 22
V1F-BAL	23 BAL 23
V1F-BAL	24 BAL 24
V1F-BAL	25 BAL 25
V1F-BAL	26 BAL 26
V1F-BAL	27 BAL 27

WIRE CONNECTIONS IN MD-II "C"	
WIRE CODE	DESTINATION
V1F-BAL	1 BAL 1
V1F-BAL	2 BAL 2
V1F-BAL	3 BAL 3
V1F-BAL	4 BAL 4
V1F-BAL	5 BAL 5
V1F-BAL	6 BAL 6
V1F-BAL	7 BAL 7
V1F-BAL	8 BAL 8
V1F-BAL	9 BAL 9
V1F-BAL	10 BAL 10
V1F-BAL	11 BAL 11
V1F-BAL	12 BAL 12
V1F-BAL	13 BAL 13
V1F-BAL	14 BAL 14
V1F-BAL	15 BAL 15
V1F-BAL	16 BAL 16
V1F-BAL	17 BAL 17
V1F-BAL	18 BAL 18
V1F-BAL	19 BAL 19
V1F-BAL	20 BAL 20
V1F-BAL	21 BAL 21
V1F-BAL	22 BAL 22
V1F-BAL	23 BAL 23
V1F-BAL	24 BAL 24
V1F-BAL	25 BAL 25
V1F-BAL	26 BAL 26
V1F-BAL	27 BAL 27

WIRE CONNECTIONS FROM CUSTOMER POWER SUPPLY TO CONTROL CABINET	
WIRE CODE	DESTINATION
V1F-BAL	1 BAL 1
V1F-BAL	2 BAL 2
V1F-BAL	3 BAL 3
V1F-BAL	4 BAL 4
V1F-BAL	5 BAL 5
V1F-BAL	6 BAL 6
V1F-BAL	7 BAL 7
V1F-BAL	8 BAL 8
V1F-BAL	9 BAL 9
V1F-BAL	10 BAL 10
V1F-BAL	11 BAL 11
V1F-BAL	12 BAL 12
V1F-BAL	13 BAL 13
V1F-BAL	14 BAL 14
V1F-BAL	15 BAL 15
V1F-BAL	16 BAL 16
V1F-BAL	17 BAL 17
V1F-BAL	18 BAL 18
V1F-BAL	19 BAL 19
V1F-BAL	20 BAL 20
V1F-BAL	21 BAL 21
V1F-BAL	22 BAL 22
V1F-BAL	23 BAL 23
V1F-BAL	24 BAL 24
V1F-BAL	25 BAL 25
V1F-BAL	26 BAL 26
V1F-BAL	27 BAL 27

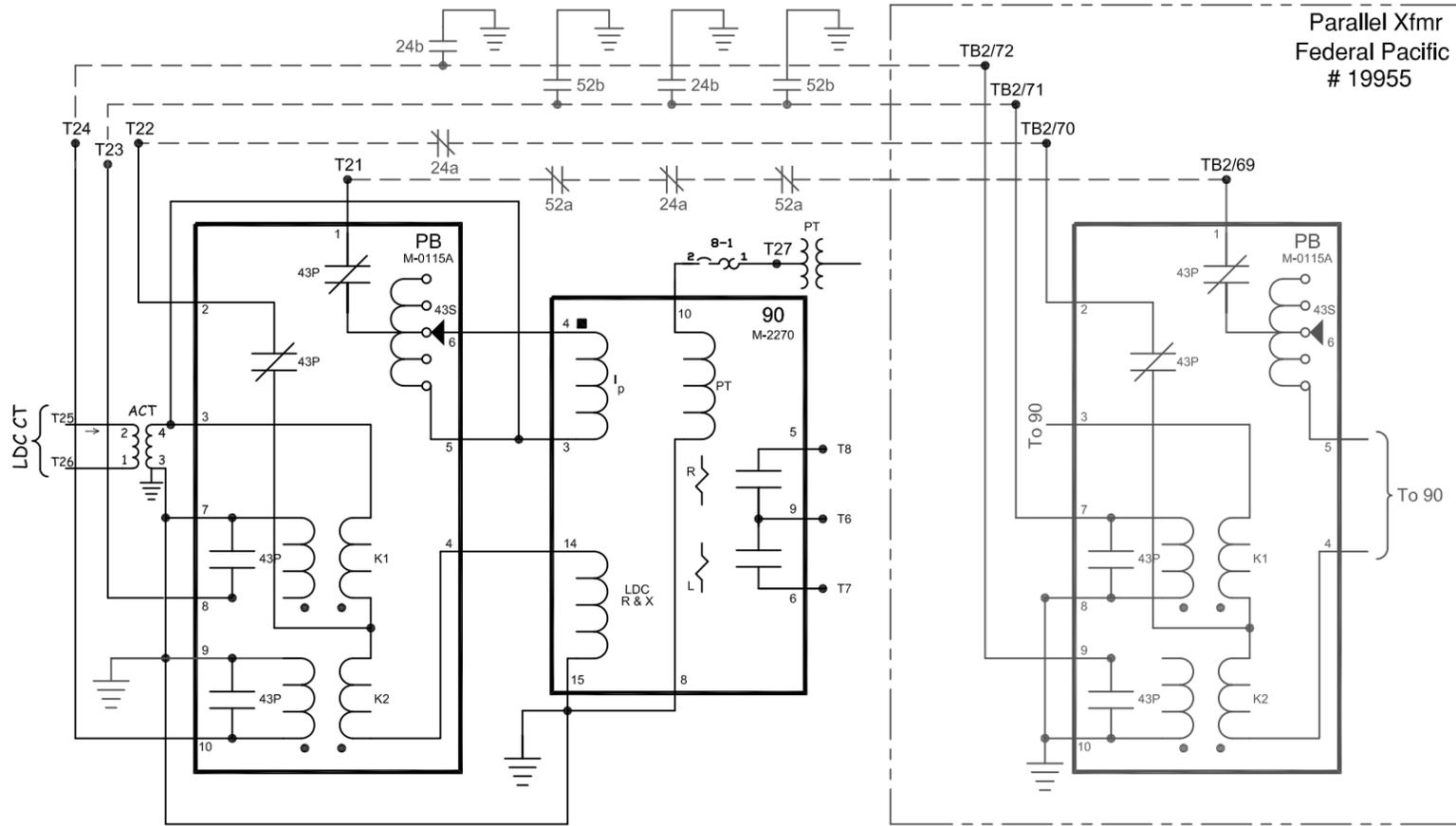
WIRE CONNECTIONS IN T.C. COMPARTMENT "V"	
WIRE CODE	DESTINATION
V1F-BAL	1 BAL 1
V1F-BAL	2 BAL 2
V1F-BAL	3 BAL 3
V1F-BAL	4 BAL 4
V1F-BAL	5 BAL 5
V1F-BAL	6 BAL 6
V1F-BAL	7 BAL 7
V1F-BAL	8 BAL 8
V1F-BAL	9 BAL 9
V1F-BAL	10 BAL 10
V1F-BAL	11 BAL 11
V1F-BAL	12 BAL 12
V1F-BAL	13 BAL 13
V1F-BAL	14 BAL 14
V1F-BAL	15 BAL 15
V1F-BAL	16 BAL 16
V1F-BAL	17 BAL 17
V1F-BAL	18 BAL 18
V1F-BAL	19 BAL 19
V1F-BAL	20 BAL 20
V1F-BAL	21 BAL 21
V1F-BAL	22 BAL 22
V1F-BAL	23 BAL 23
V1F-BAL	24 BAL 24
V1F-BAL	25 BAL 25
V1F-BAL	26 BAL 26
V1F-BAL	27 BAL 27

WIRE CONNECTIONS IN EIGHT PIN CABLE (PL3) TO SWING PANEL "B"	
WIRE CODE	DESTINATION
V1F-BAL	1 BAL 1
V1F-BAL	2 BAL 2
V1F-BAL	3 BAL 3
V1F-BAL	4 BAL 4
V1F-BAL	5 BAL 5
V1F-BAL	6 BAL 6
V1F-BAL	7 BAL 7
V1F-BAL	8 BAL 8
V1F-BAL	9 BAL 9
V1F-BAL	10 BAL 10
V1F-BAL	11 BAL 11
V1F-BAL	12 BAL 12
V1F-BAL	13 BAL 13
V1F-BAL	14 BAL 14
V1F-BAL	15 BAL 15
V1F-BAL	16 BAL 16
V1F-BAL	17 BAL 17
V1F-BAL	18 BAL 18
V1F-BAL	19 BAL 19
V1F-BAL	20 BAL 20
V1F-BAL	21 BAL 21
V1F-BAL	22 BAL 22
V1F-BAL	23 BAL 23
V1F-BAL	24 BAL 24
V1F-BAL	25 BAL 25
V1F-BAL	26 BAL 26
V1F-BAL	27 BAL 27



Right Side Panel

Parallel Xfmr
Federal Pacific
19955

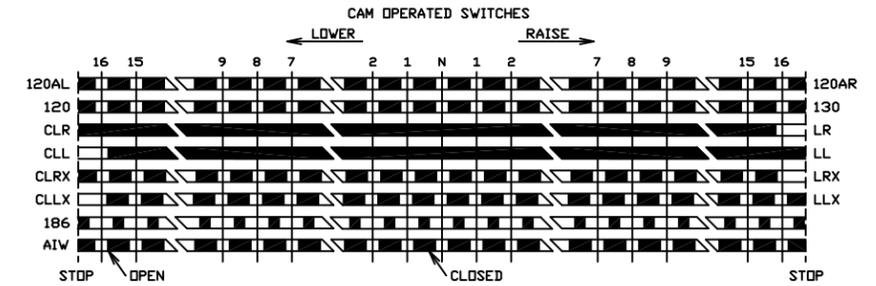


NOTES:

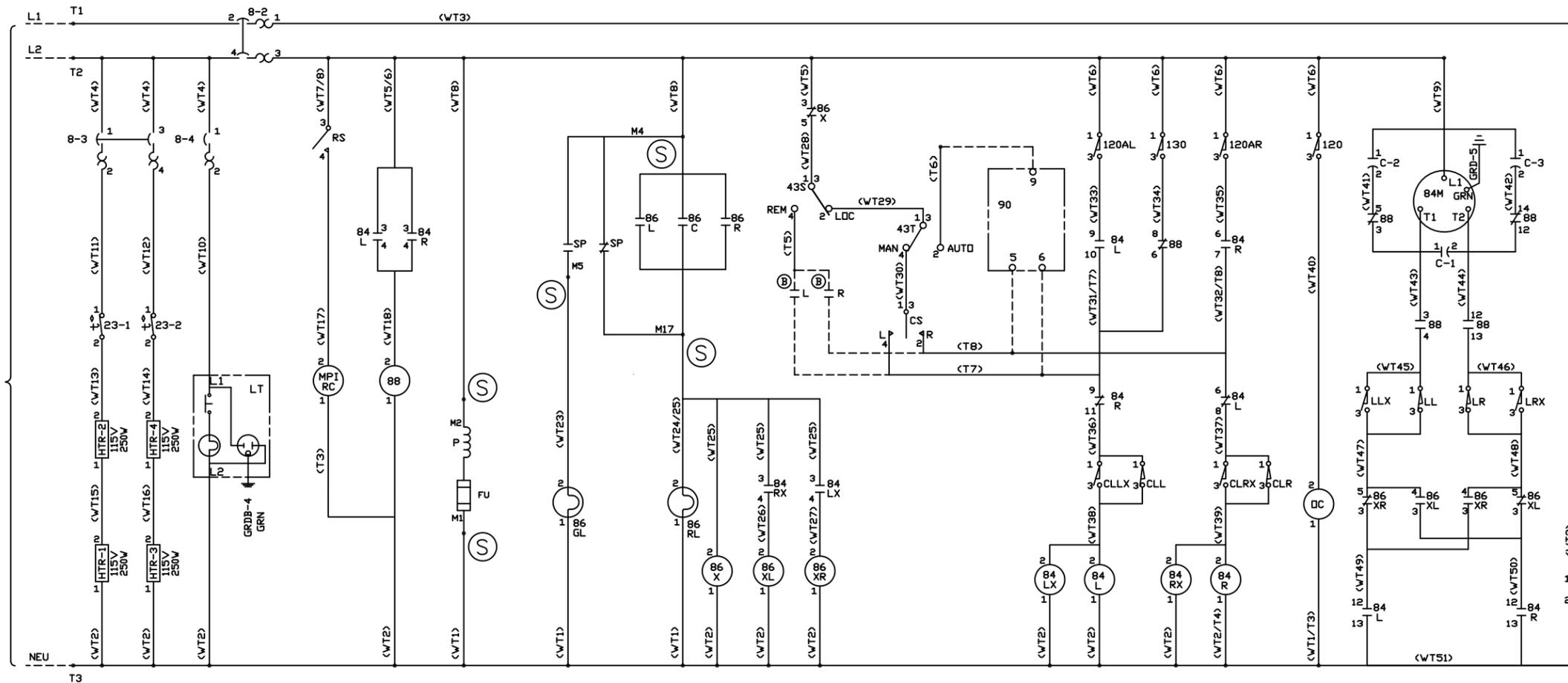
- (K) AUXILIARY CONTACTS.
 - (L) SHIELDED CABLE.
 - (S) WARNING:
DO NOT HIPOT VLV.
DISCONNECT M1, M2, M4, M5 & M17
BEFORE HIPOT TEST.
- *X PLACED AT THE DEVICE TERMINAL
INDICATES AN UNUSED TERMINAL.

ALL APPARATUS IS SHOWN IN DE-ENERGIZED POSITION.
ALL LOAD TAP CHANGER CONTROL EQUIPMENT IS SHOWN FOR LTC ON POSITION N.

- | | | | |
|------|-----------------------------------------|---------|------------------------------------|
| 8-2 | CIRCUIT BREAKER (SET AT 5.5A) | AIW | LIGHT PIPE VERIFICATION SWITCH |
| 8-3 | CIRCUIT BREAKER (2.0A) | C-1,2,3 | CAPACITOR |
| 8-4 | CIRCUIT BREAKER (15.0A) | CS | RAISE/LOWER SWITCH |
| 23-1 | THERMOSTAT (HEATERS 1 & 2) | L | LOWER CONTACT |
| 23-2 | THERMOSTAT (HEATERS 3 & 4) | R | RAISE CONTACT |
| 43S | REMOTE-LOCAL SWITCH | FU | FUSE 3AG .25A (.25" x 1.25) |
| 43T | AUTO-MANUAL SWITCH | GRDB | GROUND BAR |
| 53P | MECHANICAL RELIEF DEVICE (WHEN ORDERED) | HTR-1,2 | HEATER STAGE ONE (55F) |
| 710 | LIQUID LEVEL GAUGE | HTR-3,4 | HEATER STAGE TWO (25F) |
| 84H | HANDCRANK INTERLOCK SWITCH | JT | JUNCTION PLATE TERMINAL |
| 84L | MOTOR CONTROL LOWER RELAY | LE | LIGHT EMITTER |
| 84LX | AUXILIARY RELAY (LOWER) | LP | LIGHT PIPE |
| 84M | MOTOR | LR | LIGHT RECEIVER |
| 84M | MOTOR CONTROL RAISE RELAY | LT | LIGHT/CONVENIENCE OUTLET COMB. |
| 84RX | AUXILIARY RELAY (RAISE) | LTI | MECHANICAL POSITION INDICATOR |
| 86 | SEQUENCE MONITOR | MPI | ELEC. RESET COIL (MAX.-MIN. HANDS) |
| | LEFT PHASE CONTACT | RC | OPERATION COUNTER |
| | CENTER PHASE CONTACT | DC | MONITORING SYSTEM POWER SUPPLY |
| | RIGHT PHASE CONTACT | PLC | EIGHT-PIN PLUG CONNECTION |
| | SUPERVISORY POWER CONTROL LIGHT (GREEN) | PL | EIGHT-PIN PLUG |
| | LOCKOUT LIGHT (RED) | RS | RESET SWITCH |
| | LOCKOUT AUXILIARY RELAY | RSM | MONITORING RESET SWITCH (RED) |
| | LOCKOUT RUN-BACK RELAY (LOWER) | SP | SUPERVISION POWER |
| | LOCKOUT RUN-BACK RELAY (RAISE) | TSM | MONITORING TEST SWITCH (GREEN) |
| | BRAKE RELAY | VIM | VACUUM INTERRUPTER MONITOR |
| | MONITORING CONTROL SWITCH | VSV | VACUUM SWITCH |



CUSTOMER'S 120/208-240 V. 60 HZ 1 PH. SUPPLY - 30 KVA REQUIRED



CS

CONT'S	POSITION		
WHT	B 1-2		X
A	3-4	X	

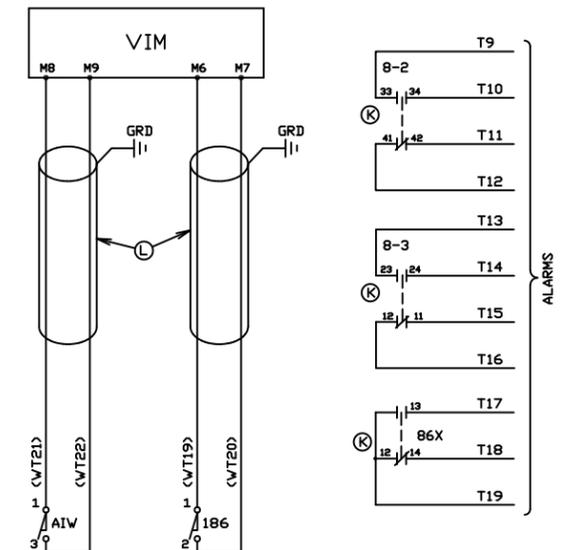
43S

CONT'S	POSITION		
WHT	B 1-2	X	
A	3-4	X	

X=CONTACT CLOSED

43T

CONT'S	POSITION		
WHT	B 1-2	X	
A	3-4	X	



Solomon Corporation
Solomon, KS (800-234-2867)



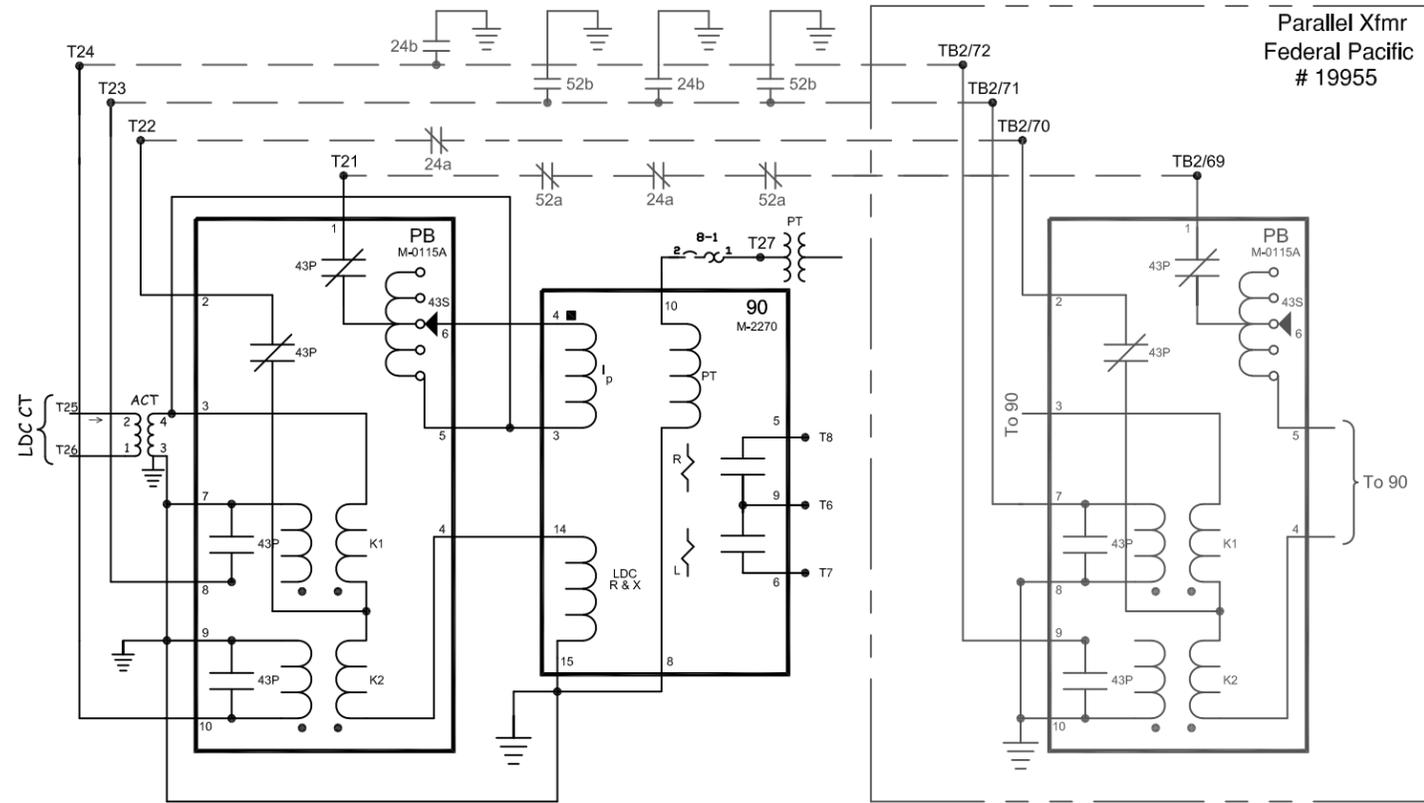
DATE	REVISIONS/NOTES

DATE	REVISIONS/NOTES

DRAWING TYPE: **Wiring Schematic**
DESIGN, DRAWN & WIRED BY: **Leon Jearde**

DRAWING DESCRIPTION: **LTC Control**
DATE: **8/09/05**

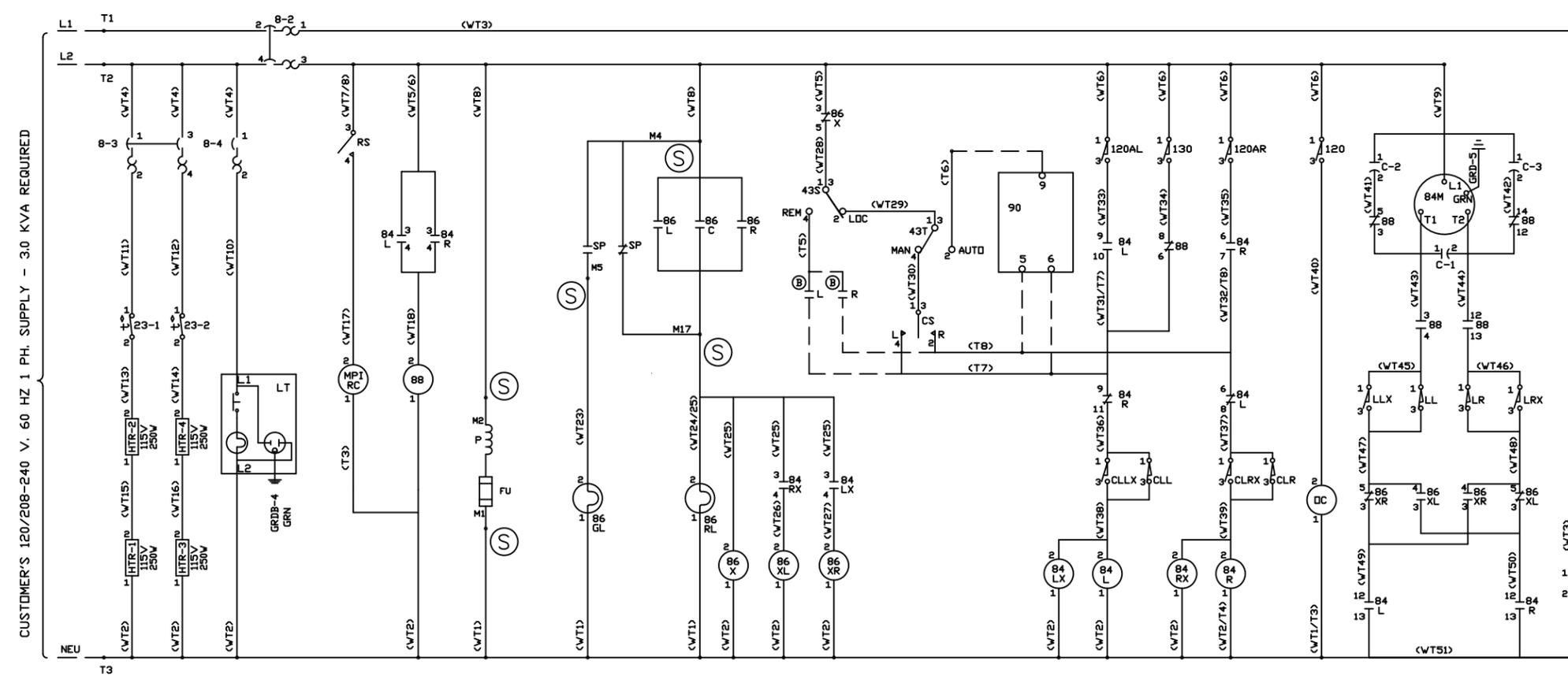
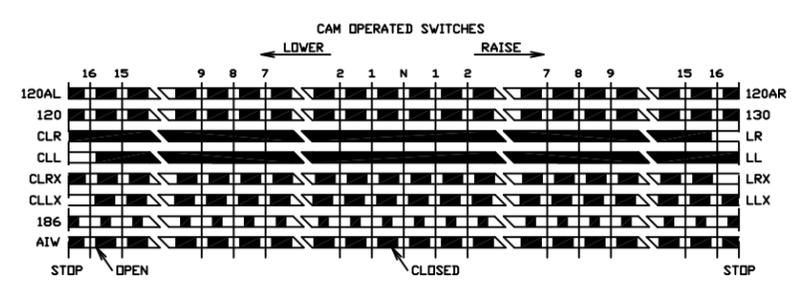
Bridger Coal Company
15000 KVA # 19947



NOTES:

- ⊗ AUXILIARY CONTACTS.
 - Ⓢ SHIELDED CABLE.
 - Ⓢ WARNING:
DO NOT HIPOT VIV.
DISCONNECT M1, M2, M4, M5 & M17
BEFORE HIPOT TEST.
- *X* PLACED AT THE DEVICE TERMINAL
INDICATES AN UNUSED TERMINAL.

- ALL APPARATUS IS SHOWN IN DE-ENERGIZED POSITION.
ALL LOAD TAP CHANGER CONTROL EQUIPMENT IS SHOWN FOR LTC ON POSITION N.
- | | | | |
|------|-----------------------------------------|---------|------------------------------------|
| 8-2 | CIRCUIT BREAKER (SET AT 5.5A) | AIW | LIGHT PIPE VERIFICATION SWITCH |
| 8-3 | CIRCUIT BREAKER (2.0A) | C-1,2,3 | CAPACITOR |
| 8-4 | CIRCUIT BREAKER (15.0A) | CS | RAISE/LOWER SWITCH |
| 23-1 | THERMOSTAT (HEATERS 1 & 2) | L | LOWER CONTACT |
| 23-2 | THERMOSTAT (HEATERS 3 & 4) | R | RAISE CONTACT |
| 43S | REMOTE-LOCAL SWITCH | FU | FUSE 3AG 25A (.25" x 1.25) |
| 43T | AUTO-MANUAL SWITCH | GRDB | GROUND BAR |
| 53P | MECHANICAL RELIEF DEVICE (WHEN ORDERED) | HTR-1,2 | HEATER STAGE ONE (SSSF) |
| 71Q | LIQUID LEVEL GAUGE | HTR-3,4 | HEATER STAGE TWO (SSSF) |
| 84H | HANDCRANK INTERLOCK SWITCH | JT | JUNCTION PLATE TERMINAL |
| 84L | MOTOR CONTROL LOWER RELAY | LE | LIGHT EMITTER |
| 84LX | AUXILIARY RELAY (LOWER) | LP | LIGHT PIPE |
| 84H | MOTOR | LR | LIGHT RECEIVER |
| 84R | MOTOR CONTROL RAISE RELAY | LT | LIGHT/CONVENIENCE OUTLET COMB. |
| 84RX | AUXILIARY RELAY (RAISE) | MPI | MECHANICAL POSITION INDICATOR |
| 86 | SEQUENCE MONITOR | RC | ELEC. RESET COIL (MAX.-MIN. HANDS) |
| | LEFT PHASE CONTACT | DC | OPERATION COUNTER |
| | CENTER PHASE CONTACT | P | MONITORING SYSTEM POWER SUPPLY |
| | RIGHT PHASE CONTACT | PLC | MONITORING SYSTEM POWER SUPPLY |
| | SUPERVISORY POWER CONTROL LIGHT (GREEN) | PL | EIGHT-PIN PLUG CONNECTION |
| | LOCKOUT LIGHT (RED) | RS | EIGHT-PIN PLUG |
| | LOCKOUT AUXILIARY RELAY | RSM | RESET SWITCH |
| | LOCKOUT RUN-BACK RELAY (LOWER) | SP | MONITORING RESET SWITCH (RED) |
| | LOCKOUT RUN-BACK RELAY (RAISE) | TSM | SUPERVISOR POWER |
| | BRAKE RELAY | VIM | VACUUM INTERRUPTER MONITOR |
| 186 | MONITORING CONTROL SWITCH | VSW | VACUUM SWITCH |



CS

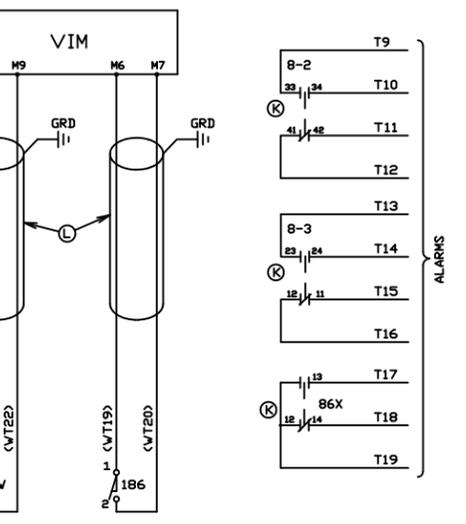
CONT'S	POSITION
WHT	B 1-2 X
A	3-4 X

43S

CONT'S	POSITION
WHT	B 1-2 X
A	3-4 X

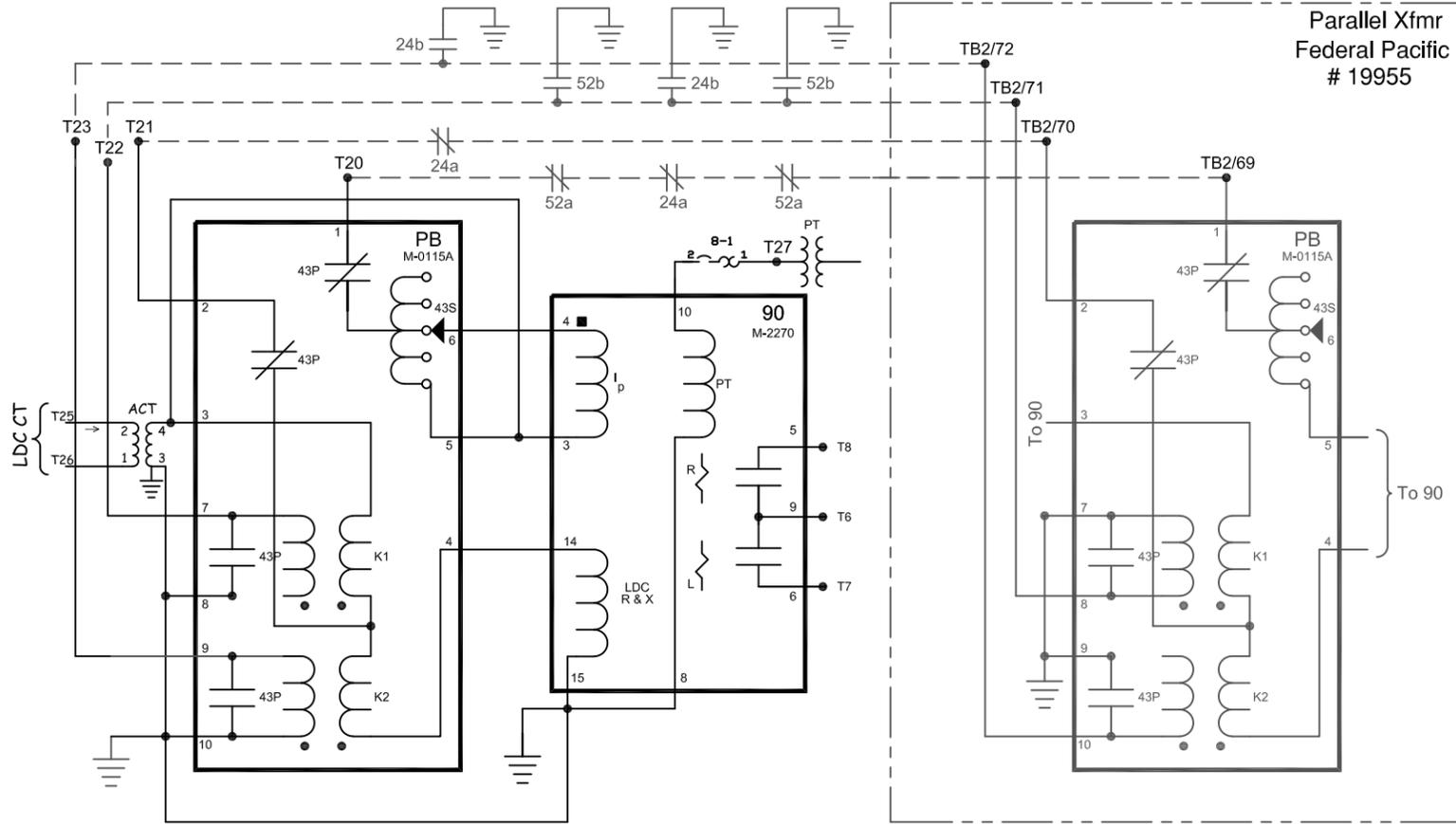
43T

CONT'S	POSITION
WHT	B 1-2 X
A	3-4 X



DATE	REVISIONS / NOTES	DATE	REVISIONS / NOTES

Parallel Xfmr
Federal Pacific
19955

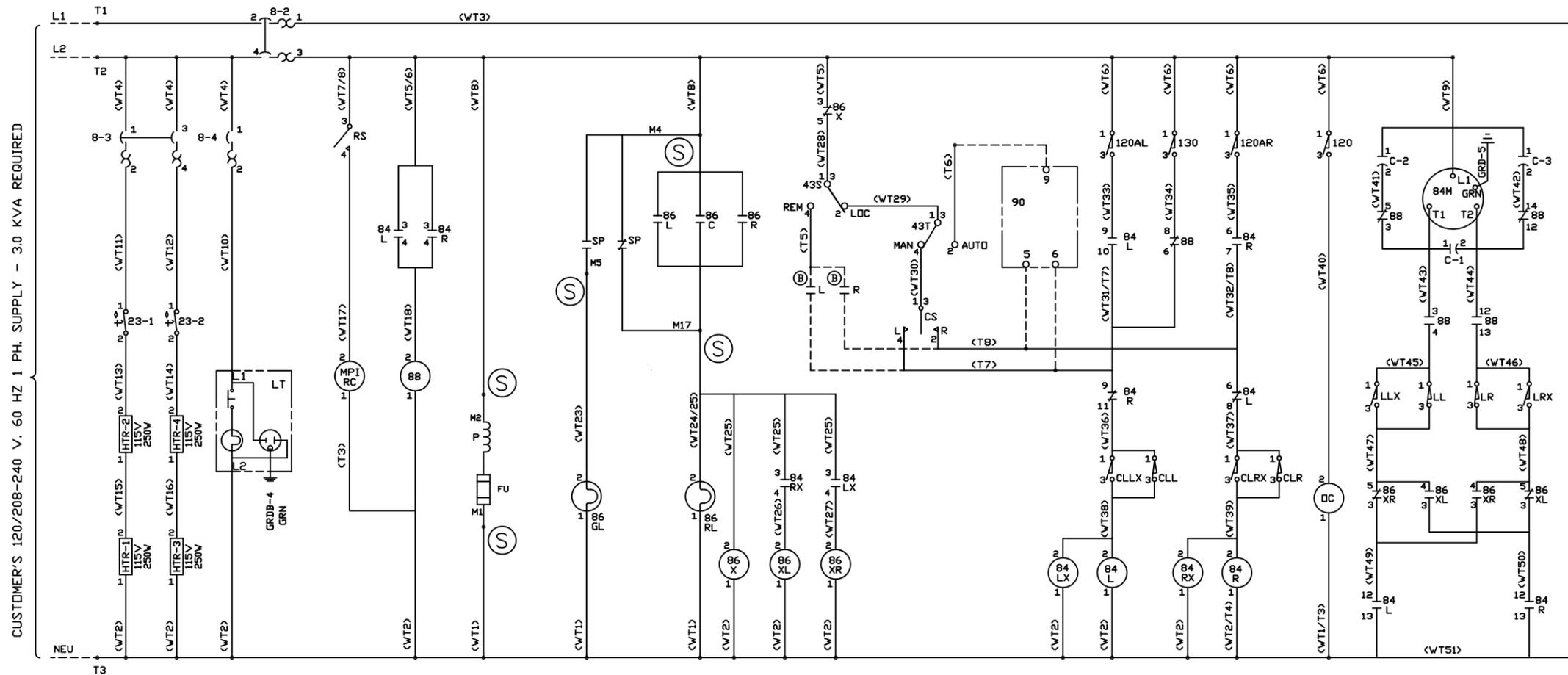
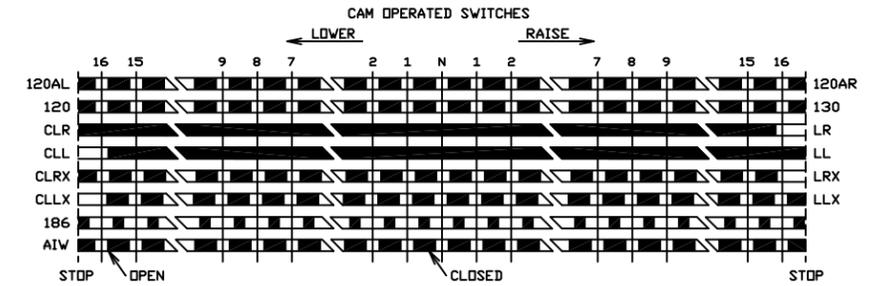


NOTES:

- (K) AUXILIARY CONTACTS.
 - (L) SHIELDED CABLE.
 - (S) WARNING:
DO NOT HIPOT VLV.
DISCONNECT M1, M2, M4, M5 & M7
BEFORE HIPOT TEST.
- *X* PLACED AT THE DEVICE TERMINAL
INDICATES AN UNUSED TERMINAL.

ALL APPARATUS IS SHOWN IN DE-ENERGIZED POSITION.
ALL LOAD TAP CHANGER CONTROL EQUIPMENT IS SHOWN FOR LTC ON POSITION N.

- | | | | |
|------|-----------------------------------------|---------|------------------------------------|
| 8-2 | CIRCUIT BREAKER (SET AT 5.5A) | AIW | LIGHT PIPE VERIFICATION SWITCH |
| 8-3 | CIRCUIT BREAKER (2.0A) | C-1,2,3 | CAPACITOR |
| 8-4 | CIRCUIT BREAKER (15.0A) | CS | RAISE/LOWER SWITCH |
| 23-1 | THERMOSTAT (HEATERS 1 & 2) | L | LOWER CONTACT |
| 23-2 | THERMOSTAT (HEATERS 3 & 4) | R | RAISE CONTACT |
| 43S | REMOTE-LOCAL SWITCH | FU | FUSE 3AG .25A (.25" x 1.25) |
| 43T | AUTO-MANUAL SWITCH | GRDB | GROUND BAR |
| 53P | MECHANICAL RELIEF DEVICE (WHEN ORDERED) | HTR-1,2 | HEATER STAGE ONE (55F) |
| 71Q | LIQUID LEVEL GAUGE | HTR-3,4 | HEATER STAGE TWO (25F) |
| 84H | HANDCRANK INTERLOCK SWITCH | JT | JUNCTION PLATE TERMINAL |
| 84L | MOTOR CONTROL LOWER RELAY | LE | LIGHT EMITTER |
| 84LX | AUXILIARY RELAY (LOWER) | LP | LIGHT PIPE |
| 84M | MOTOR | LR | LIGHT RECEIVER |
| 84R | MOTOR CONTROL RAISE RELAY | LT | LIGHT/CONVENIENCE OUTLET COMB. |
| 84RX | AUXILIARY RELAY (RAISE) | MPI | MECHANICAL POSITION INDICATOR |
| 86 | SEQUENCE MONITOR | RC | ELEC. RESET COIL (MAX.-MIN. HANDS) |
| | LEFT PHASE CONTACT | DC | OPERATION COUNTER |
| | CENTER PHASE CONTACT | P | MONITORING SYSTEM POWER SUPPLY |
| | RIGHT PHASE CONTACT | PLC | EIGHT-PIN PLUG CONNECTION |
| | SUPERVISORY POWER CONTROL LIGHT (GREEN) | PL | EIGHT-PIN PLUG |
| | LOCKOUT LIGHT (RED) | RS | RESET SWITCH |
| | LOCKOUT AUXILIARY RELAY | RSM | MONITORING RESET SWITCH(RED) |
| | LOCKOUT RUN-BACK RELAY (LOWER) | SP | SUPERVISION POWER |
| | LOCKOUT RUN-BACK RELAY (RAISE) | TSM | MONITORING TEST SWITCH(GREEN) |
| | BRAKE RELAY | VIM | VACUUM INTERRUPTER MONITOR |
| | MONITORING CONTROL SWITCH | VSV | VACUUM SWITCH |



CS

CONT'S	POSITION		
WHT	B 1-2		X
	A 3-4	X	

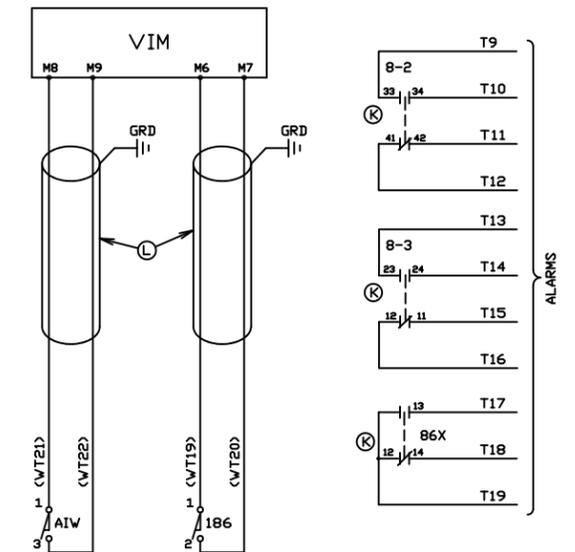
43S

CONT'S	POSITION		
WHT	B 1-2	X	
	A 3-4	X	

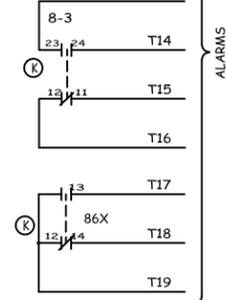
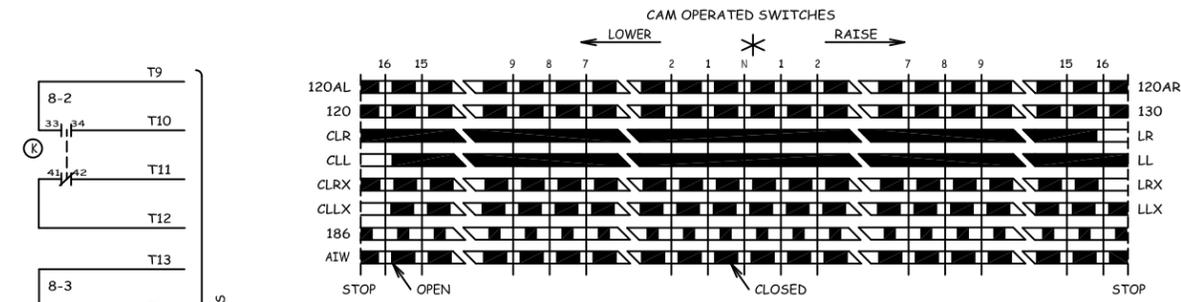
X=CONTACT CLOSED

43T

CONT'S	POSITION		
WHT	B 1-2	X	
	A 3-4	X	



ALL APPARATUS IS SHOWN IN DE-ENERGIZED POSITION. ALL LOAD TAP CHANGER CONTROL EQUIPMENT IS SHOWN FOR LTC ON POSITION N.



"CS"

CONT'S	POSITION
WHT B 1-2	X
A 3-4	X

43S

CONT'S	POSITION
WHT B 1-2	X
A 3-4	X

43T

CONT'S	POSITION
WHT B 1-2	X
A 3-4	X

X=CONTACT CLOSED

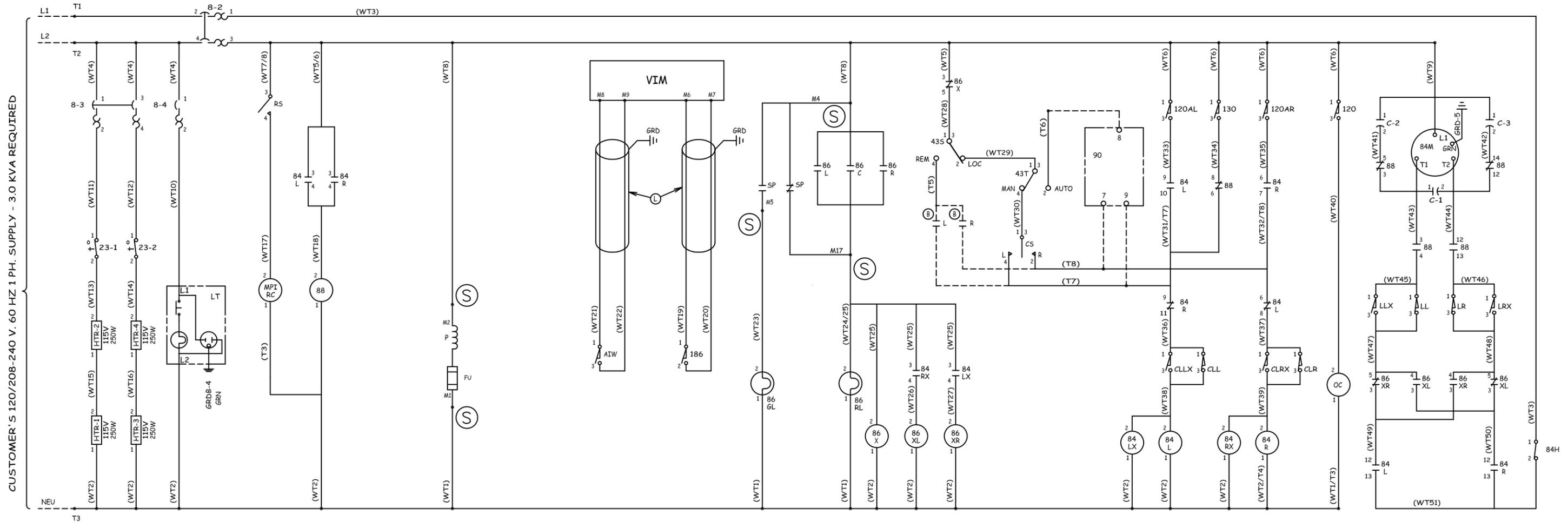


- 8-2 CIRCUIT BREAKER (SET AT 5.5A)
- 8-3 CIRCUIT BREAKER (2.0A)
- 8-4 CIRCUIT BREAKER (15.0A)
- 23-1 THERMOSTAT (HEATERS 1 & 2)
- 23-2 THERMOSTAT (HEATERS 3 & 4)
- 43S REMOTE-LOCAL SWITCH
- 43T AUTO-MANUAL SWITCH
- 63P MECHANICAL RELIEF DEVICE (WHEN ORDERED)
- 71Q LIQUID LEVEL GAUGE
- 84L HANDCRANK INTERLOCK SWITCH
- 84L MOTOR CONTROL LOWER RELAY
- 84LX AUXILIARY RELAY (LOWER)
- 84R MOTOR
- 84M MOTOR CONTROL RAISE RELAY
- 84R AUXILIARY RELAY (RAISE)
- 84RX SEQUENCE MONITOR
- 86 LEFT PHASE CONTACT
- 86L CENTER PHASE CONTACT
- 86RL RIGHT PHASE CONTACT
- 86X SUPERVISORY POWER CONTROL LIGHT (GREEN)
- 86XL LOCKOUT LIGHT (RED)
- 86XR LOCKOUT AUXILIARY RELAY
- 88 LOCKOUT RUN-BACK RELAY (LOWER)
- 186 LOCKOUT RUN-BACK RELAY (RAISE)
- 88 BRAKE RELAY
- 186 MONITORING CONTROL SWITCH

- AIW LIGHT PIPE VERIFICATION SWITCH
- C-1,2,3 CAPACITOR
- CS RAISE/LOWER SWITCH
- L LOWER CONTACT
- R RAISE CONTACT
- FU FUSE 3AG .25A (.25" x 1.25)
- GRDB GROUND BAR
- HTR-1,2 HEATER STAGE ONE (55F)
- HTR-3,4 HEATER STAGE TWO (25F)
- JT JUNCTION PLATE TERMINAL
- LE LIGHT EMITTER
- LP LIGHT PIPE
- LR LIGHT RECEIVER
- LT LIGHT/CONVENIENCE OUTLET COMBINATION
- MPI MECHANICAL POSITION INDICATOR
- RC ELEC. RESET COIL (MAX.-MIN. HANDS)
- OC OPERATION COUNTER
- P MONITORING SYSTEM POWER SUPPLY
- PLC EIGHT-PIN PLUG CONNECTION
- PL EIGHT-PIN PLUG
- RS RESET SWITCH
- RSM MONITORING RESET SWITCH (RED)
- SP SUPERVISION POWER
- TSM MONITORING TEST SWITCH (GREEN)
- VIM VACUUM INTERRUPTER MONITOR
- VSW VACUUM SWITCH

NOTES:

- (K) AUXILIARY CONTACTS.
 - (L) SHIELDED CABLE.
 - (S) WARNING: DO NOT HIPOT VIM. DISCONNECT M1,M2,M4,M5 & M17 BEFORE HIPOT TEST.
- "X" PLACED AT THE DEVICE TERMINAL INDICATES AN UNUSED TERMINAL.



CUSTOMER'S 120/208-240 V. 60 HZ 1 PH. SUPPLY - 3.0 KVA REQUIRED



Solomon Corporation
Solomon, KS (800-234-2867)



DATE	REVISIONS/NOTES	DATE	REVISIONS/NOTES
	Federal Pacific Xfmr w/ Reinhausen LTC		

DRAWING TYPE: **Wiring Schematic**
DESIGN, DRAWN & WIRED BY: **Leon Jeardoe**

DRAWING DESCRIPTION: **LTC Control**
DATE: **5/04/05**

Bridger Coal
15000 KVA # 19947

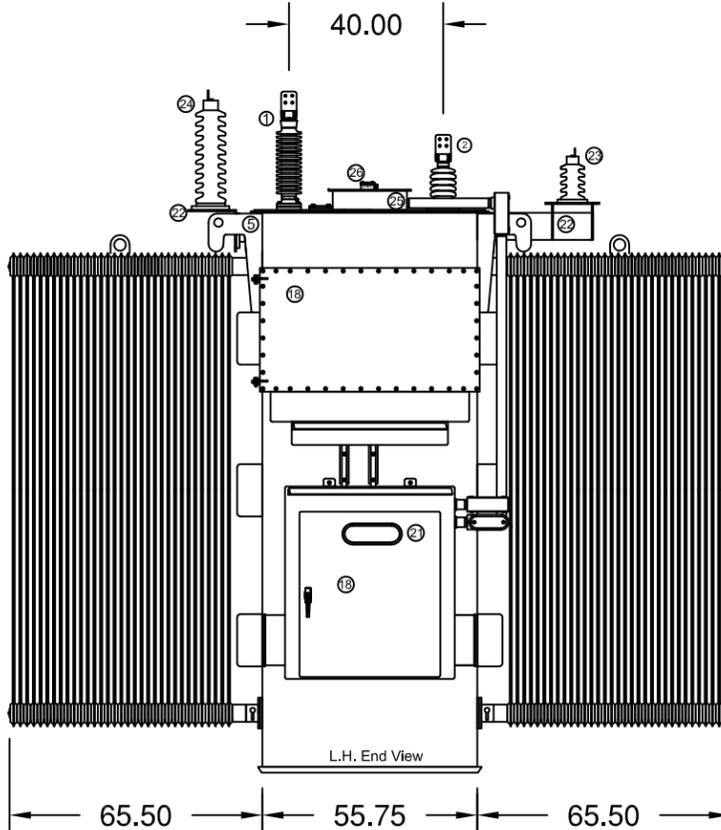
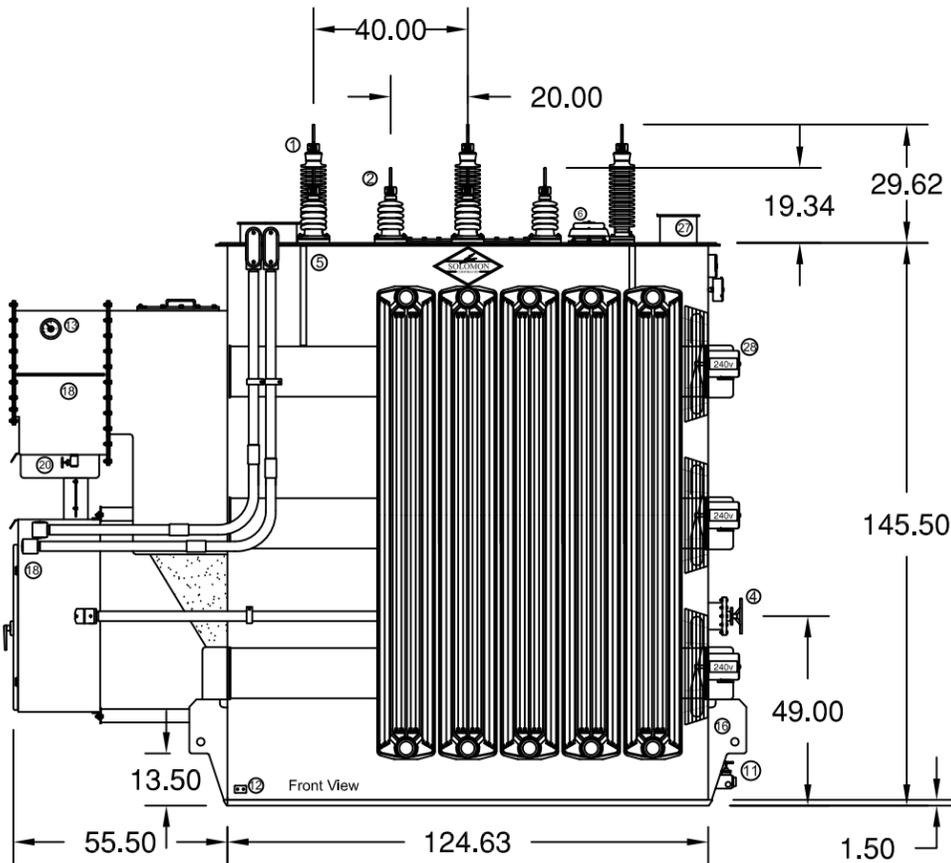
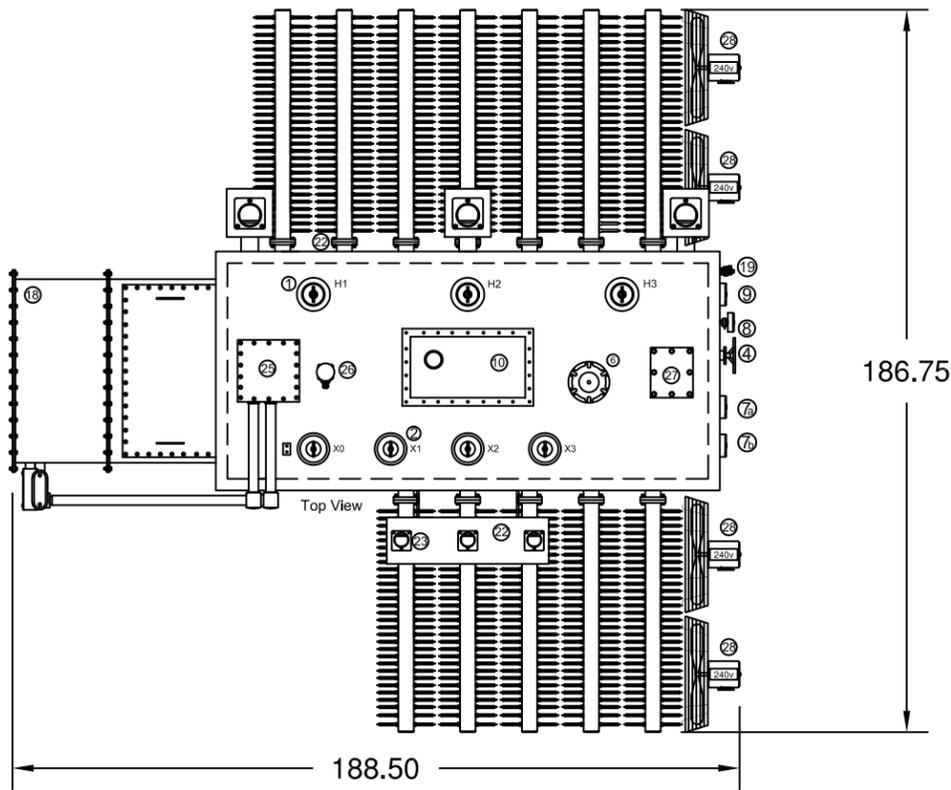
THREE PHASE SUBSTATION TRANSFORMER

15000/20000 KVA AT 65° C RISE OA/FA
 PRIMARY VOLTAGE: 34500 DELTA BIL: 200 KV
 SECONDARY VOLTAGE: 12470Y/7200 BIL: 110 KV
 PRIMARY TAPS: + - 5% FCAN & BN
 SECONDARY TAPS: +-16 @ 5/8% Taps
 HERTZ : 60 CYCLES

WEIGHTS & GALS.
 MAIN OIL GAL : 4140
 LTC OIL GAL : 150
 C & C WT : 46180
 TANK WT : 39000
 OIL WT : 32175
 TOTAL WT : **117355**

NOTE:

1. Arrestors and Arrestor brackets not shown on Front View.



1	35 KV HV LAPP Bushings 1.125"Stud w/4Hole Spade Solomon # 821
2	15 KV LV Bushings 1.125" Stud w/4Hole Spade Warco #41A05099-9
3	Cooling Radiators
4	HV TapChanger Handle (De-Energized Operation) R.H. End of Tank
5	Lifting Hooks
6	Explosion Relief Device Sol. # 849
7	Qualitrol (a) Oil Temp. #104-317-01 (b) Winding Temp #104-318-01
8	Main Tank Pressure/Vac Gauge w/Bleeder Solomon# 142
9	Main Tank Liquid Level Gauge Solomon# 1205
10	Bolt-On Inspection/Manhole Cover (34" x 20")
11	Drain Valve (Main Tank)
12	Grounding Pad
13	LTC Tank Liquid Level Gauge Solomon# 1205
14	Laser Etched Nameplate Anodized Aluminum R.H. End of Tank
15	LTC Liquid Temperature Gauge Solomon# 173
16	Jacking Pads
17	LTC Tank Pressure/Vac. Gauge (N/A - Unit is Free Breathing)
18	LTC Tank and Control Cabinet w/ Fan Controls
19	Top Fill Valve (Main Tank)
20	Drain Valve (LTC Tank)
21	LTC Position Indicator
22	HV & LV Arrestor Brackets
23	LV Arrestors 15 KV (12.7 KV MCOV) #217 013
24	HV Arrestors 27 KV (22 KV MCOV) #217 022
25	Terminal Block-CT Wiring Junction Box
26	Rapid Pressure Rise Relay Qualitrol # 910-010-03
27	Core Ground Bushing Enclosure
28	Krenz Cooling Fans (8) #F26-A8674 .125HP / 850 RPM / 230v
29	

SOLOMON CORPORATION
 SOLOMON, KANSAS
 (785) 655-2191

THREE PHASE 60 HERTZ
 POWER CLASS LTC TRANSFORMER
 15000/20000 KVA OAF/FA
 65° C RISE

TRANSFORMER VOLTAGES PRIMARY 34500 DELTA SECONDARY 12470Y/7200	KV-BIL FULL WAVE IMPULSE LEVEL H1, H2, H3=200 X0, X1, X2, X3=110 IMPEDANCE VOLTS 7.7% AT 85° C - 15000KVA 34500 - 12470	FULL LOAD CONTINUOUSLY 15000/20000 KVA OAF/FA 65° C RISE SERIAL # L44744 JOB # 19955
-----------------------------------------------------------------------------------	----------------------------------------------------------------------------------------------------------------------------------	--------------------------------------------------------------------------------------------------

*** HV WINDING CONNECTIONS**

WINDING	VOLTS	AMP	OHMS	POSITION	CONNECTS
HIGH	36225	238.07	1.1 A	A	A TO B
HIGH	36363	244.30	2.1 B	B	B TO C
VOLTAGE	34500	251.92	3.1 C	C	C TO D
DELTA	33638	237.45	4.1 D	D	D TO E
	32775	234.23	5.1 E	E	E TO F

APPROXIMATE WEIGHTS EXPRESSED IN U.S. POUNDS
 TOTAL - 117355 lbs.
 UNTANKING (CORRECTION) - 46180 lbs.
 TANK AND FITTINGS - 39000 lbs.
 LTC TANK - 150 MAIN TANK - 4140 OIL - 32175 lbs.

30 DEGREE PHASE SHIFT

LV CONNECTIONS

VOLTS	AMPS	OHMS	POSITION	CONNECTS
11000	1000	0.000	1	A TO B
11000	1000	0.000	2	B TO C
11000	1000	0.000	3	C TO D
11000	1000	0.000	4	D TO E
11000	1000	0.000	5	E TO F
11000	1000	0.000	6	F TO G
11000	1000	0.000	7	G TO H
11000	1000	0.000	8	H TO I
11000	1000	0.000	9	I TO J
11000	1000	0.000	10	J TO K
11000	1000	0.000	11	K TO L
11000	1000	0.000	12	L TO M
11000	1000	0.000	13	M TO N
11000	1000	0.000	14	N TO O
11000	1000	0.000	15	O TO P
11000	1000	0.000	16	P TO Q
11000	1000	0.000	17	Q TO R
11000	1000	0.000	18	R TO S
11000	1000	0.000	19	S TO T
11000	1000	0.000	20	T TO U
11000	1000	0.000	21	U TO V
11000	1000	0.000	22	V TO W
11000	1000	0.000	23	W TO X
11000	1000	0.000	24	X TO Y
11000	1000	0.000	25	Y TO Z
11000	1000	0.000	26	Z TO A
11000	1000	0.000	27	A TO B
11000	1000	0.000	28	B TO C
11000	1000	0.000	29	C TO D

THE 20° C LIQUID LEVEL IS 14.3 INCHES BELOW TOP OF HIGHEST MANHOLE FLANGE.
 LIQUID LEVEL CHANGES 1.1 INCHES FOR EACH 10° C CHANGE IN AVERAGE LIQUID TEMPERATURE.
 THE MAXIMUM OPERATING PRESSURES OF LIQUID PRESERVATION SYSTEM IS 0.154 PSIG POS. TO 0.2 PSIG NEG.
 FILLED WITH NON-PCB OIL AT TIME OF REMANUFACTURE. TANK IS SUITABLE FOR 147 LBS VACUUM FILLING.
 * THE TRANSFORMER MUST NOT BE ENERGIZED FROM ANY VOLTAGE SOURCE WHEN HV TAP CHANGER IS OPERATED.
 LTC-CT IS 1400S AMP. FOR USE WITH LOAD TAP CHANGER. ■ - POLARITY MARK

Nameplate Actual Size - 12" x 17.0"

DATE	REVISIONS/NOTES	DATE	REVISIONS/NOTES

DRAWN BY: **Trent**
 DRAWING DESCRIPTION: **Tank/Nameplate**

DATE: **07/29/2005**
 DRAWING FORMAT: **AutoCAD LT2002**



TRANSFORMER VOLTAGES

PRIMARY

34500 DELTA

SECONDARY

12470Y/7200

**THREE PHASE 60 HERTZ
 POWER CLASS LTC TRANSFORMER**

KV-BIL FULL WAVE IMPULSE LEVEL
 H1,H2,H3= 200 XO,X1,X2,X3=110

IMPEDANCE VOLTS 7.78 %
 AT 85°C - 15000KVA 34500 - 7200

FULL LOAD CONTINUOUSLY
 15000/20000 KVA OA/FA
 65°C RISE

SERIAL # 44744

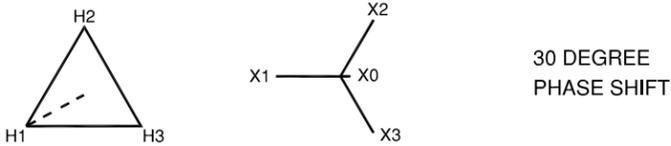
JOB # 19955

*** HV WINDING CONNECTIONS**

WINDING	VOLTS	AMP 15000 KVA	DIAL POSITION	CONNECTS
HIGH VOLTAGE DELTA	36225	239.07	1 / A	A TO B
	35363	244.90	2 / B	B TO C
	34500	251.02	3 / C	D TO C
	33638	257.45	4 / D	D TO E
	32775	264.23	5 / E	E TO F

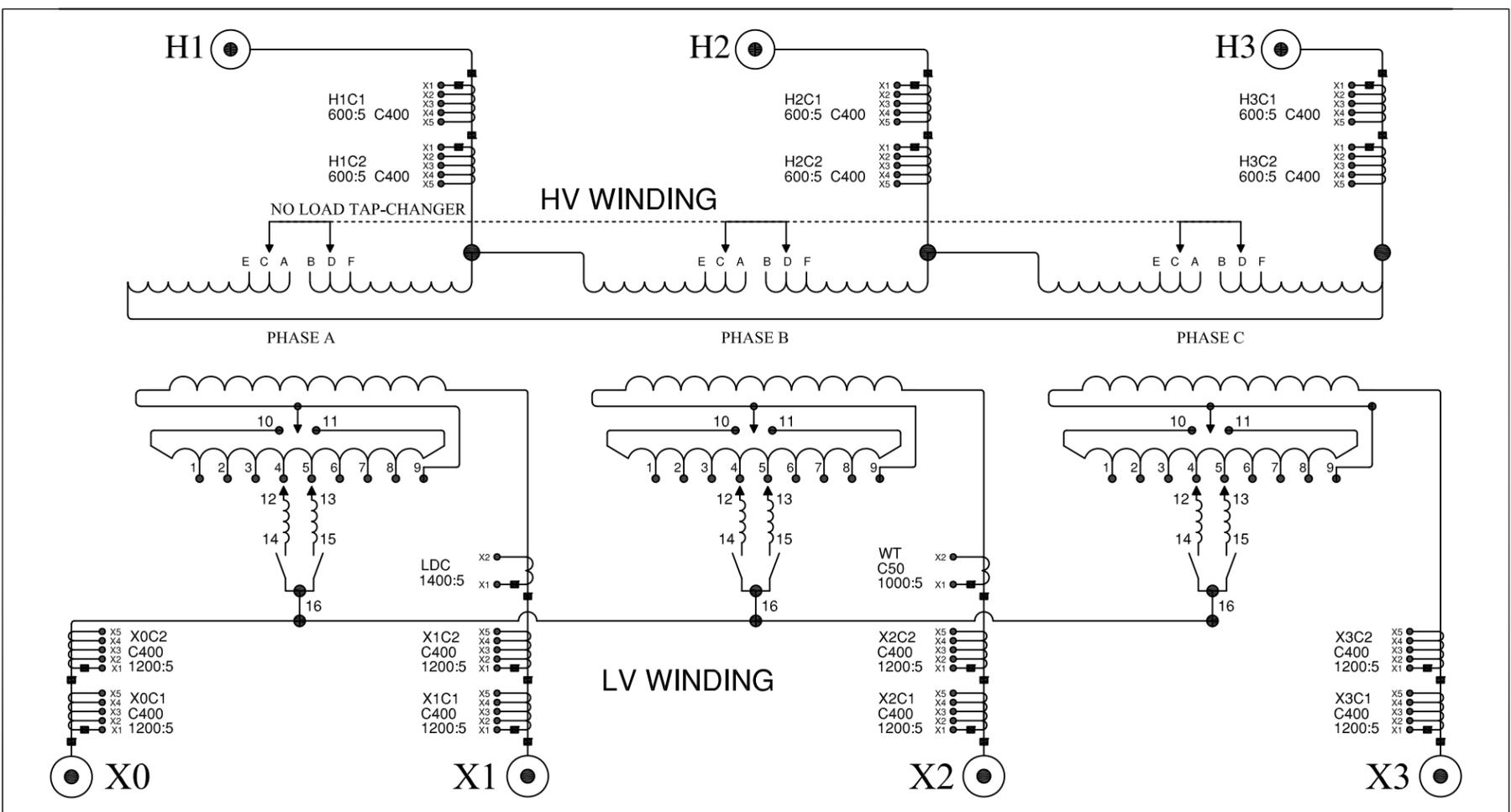
APPROXIMATE WEIGHTS EXPRESSED IN U.S. POUNDS

TOTAL --- 117355 lbs.
 UNTANKING (CORE&COIL) --- 46180 lbs.
 TANK AND FITTINGS --- 39000 lbs.
 LTC TANK -- 150 GALS. MAIN TANK -- 4140 GALS. --- 32175 lbs.



LV CONNECTIONS

VOLTS L - L	AMPS 15000 KVA	MECHANISM		REVERSING SWITCH ON
		DIAL POS	CONTACTS ON	
13718	631.31	16	1 + 1	11
13640	634.92	15	2 + 1	
13562	638.57	14	2 + 2	
13466	643.12	13	3 + 2	
13406	646.00	12	3 + 3	
13328	649.78	11	4 + 3	
13250	653.60	10	4 + 4	
13172	657.47	9	5 + 4	
13094	661.39	8	5 + 5	
13016	665.35	7	6 + 5	
12938	669.37	6	6 + 6	
12861	673.37	5	7 + 6	
12783	677.48	4	7 + 7	
12705	681.64	3	8 + 7	
12627	685.85	2	8 + 8	
12549	690.12	1	9 + 8	
12470		N	9	10
12393		1	9 + 1	
12315		2	1 + 1	
12237		3	1 + 2	
12159		4	2 + 2	
12081		5	2 + 3	
12003		6	3 + 3	
11925		7	3 + 4	
11847		8	4 + 4	
11769		9	4 + 5	
11691		10	5 + 5	
11613		11	5 + 6	
11535		12	6 + 6	
11458		13	6 + 7	
11380		14	7 + 7	
11302		15	7 + 8	
11224		16	8 + 8	



THE 25°C LIQUID LEVEL IS 14.5 INCHES BELOW TOP OF HIGHEST MANHOLE FLANGE.
 LIQUID LEVEL CHANGES 1.1 INCHES FOR EACH 10°C CHANGE IN AVERAGE LIQUID TEMPERATURE.
 THE MAXIMUM OPERATING PRESSURES OF LIQUID PRESERVATION SYSTEM 8.0 PSI POS. TO 8.0 PSI NEG.
 FILLED WITH NON-PCB OIL AT TIME OF REMANUFACTURE. TANK IS SUITABLE FOR 14.7 LBS VACUUM FILLING.

ORIGINAL MFG. - FEDERAL PACIFIC
 LTC MECHANISM - F.P. TYPE TC25E 1977
 DATE OF REMFG. - JULY 2005
 MADE IN U.S.A.

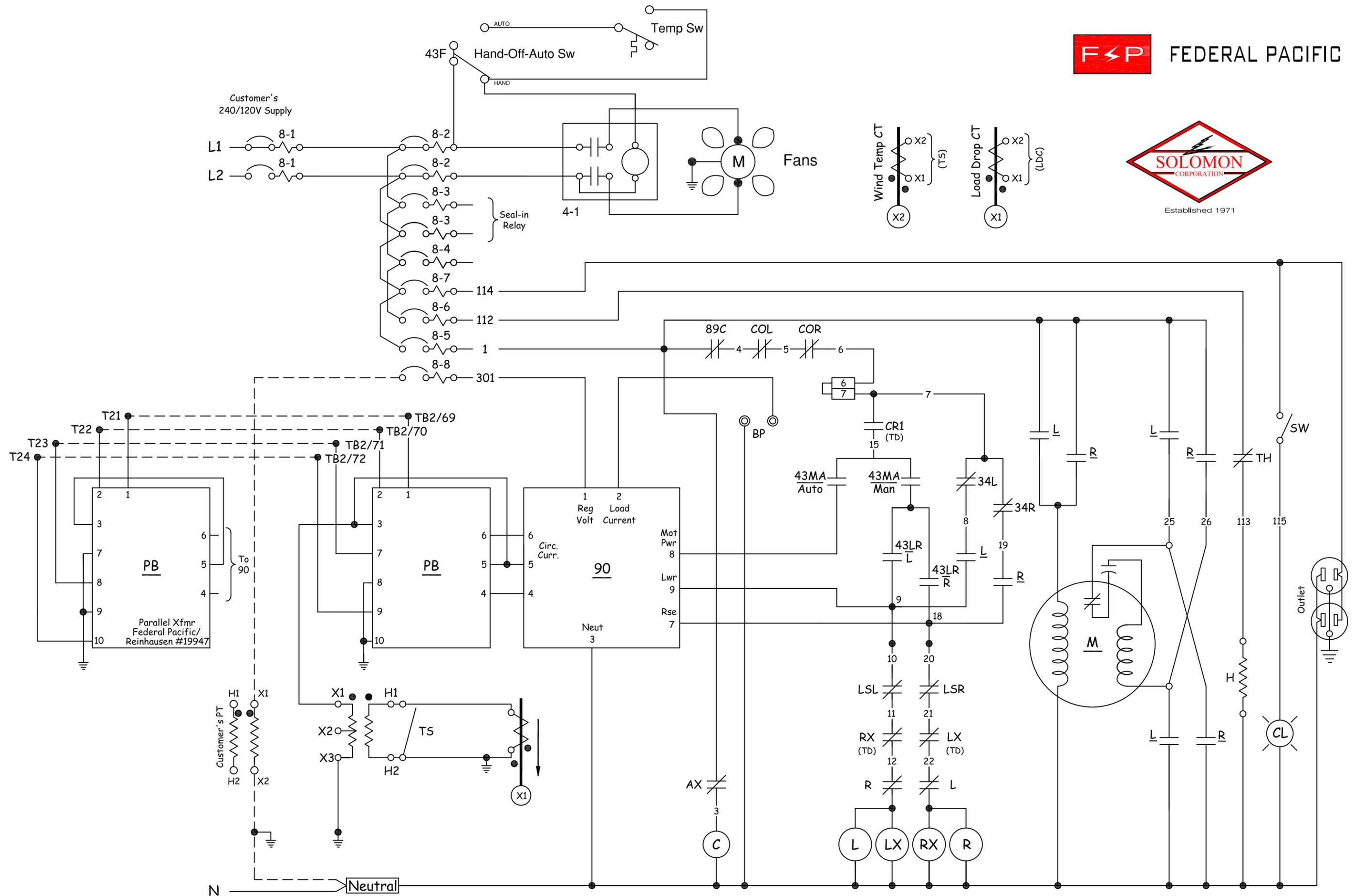
* THE TRANSFORMER MUST NOT BE ENERGIZED FROM ANY VOLTAGE SOURCE WHEN HV TAP CHANGER IS OPERATED.
 LDC-CT IS 1400:5 AMP FOR USE WITH LOAD TAP CHANGER. ■ = POLARITY MARK



FEDERAL PACIFIC



Established 1971



Solomon Corporation
Solomon, KS (800-234-2867)

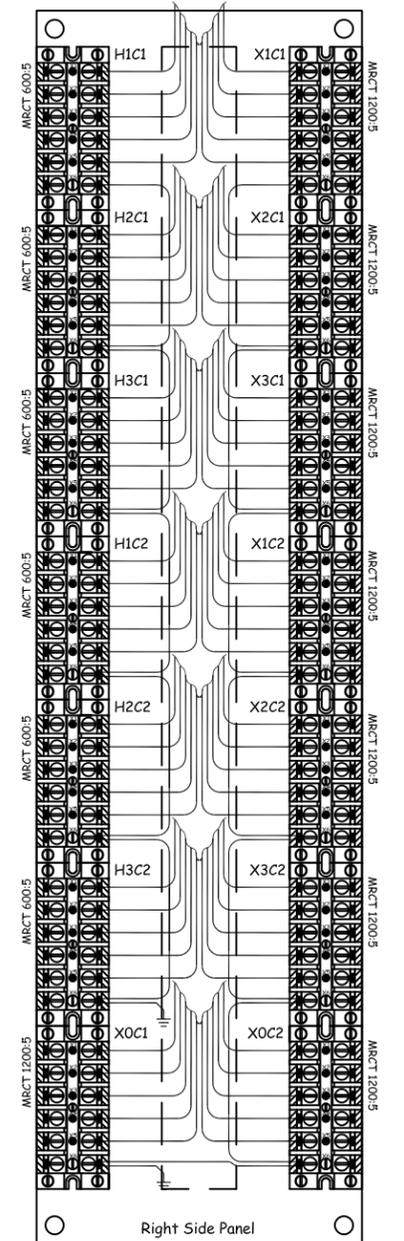
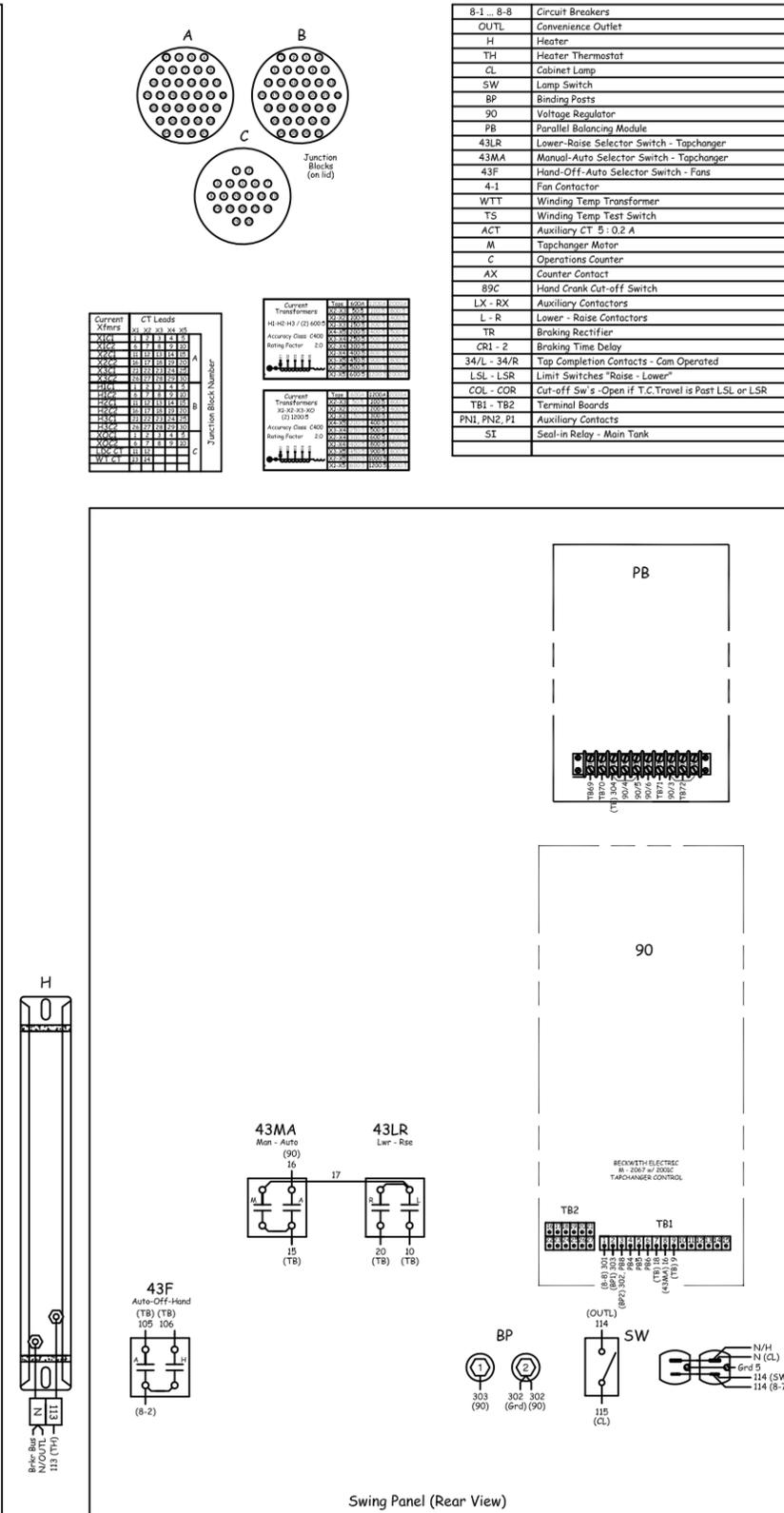
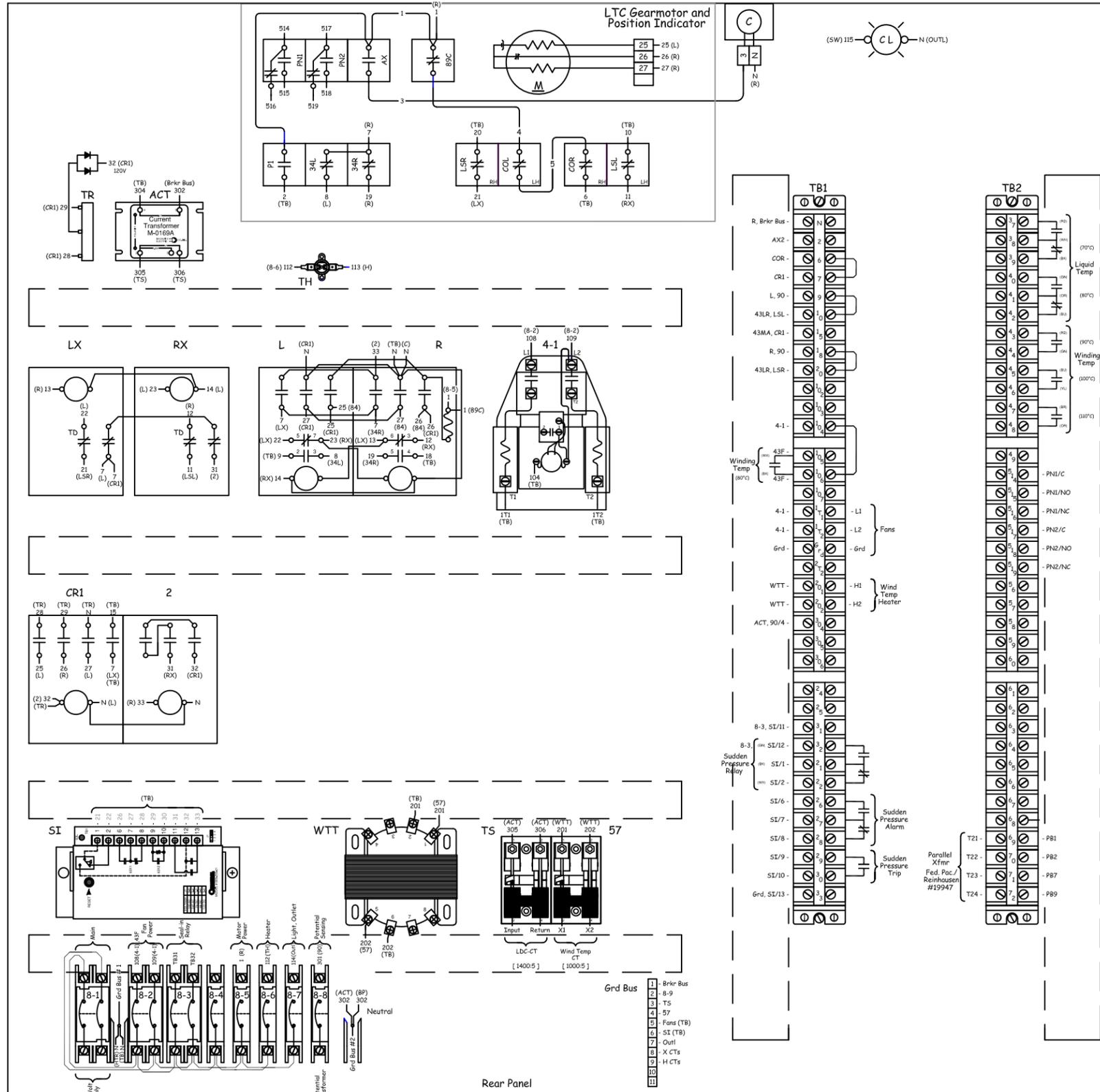


DATE	REVISIONS/NOTES	DATE	REVISIONS/NOTES

DRAWING TYPE: **Wiring Schematic**
DESIGN, DRAWN & WIRED BY: **Leon Jeardoe**

DRAWING DESCRIPTION: **LTC Control**
DATE: **8/03/05**

Bridger Coal Company
15000 KVA # 19955



8-1 ... 8-8	Circuit Breakers
OUTL	Convenience Outlet
H	Heater
TH	Heater Thermostat
CL	Cabinet Lamp
SW	Lamp Switch
BP	Binding Posts
90	Voltage Regulator
PB	Parallel Balancing Module
43LR	Lower-Raise Selector Switch - Tapchanger
43MA	Manual-Auto Selector Switch - Tapchanger
43F	Hand-Off-Auto Selector Switch - Fans
4-1	Fan Contactor
WTT	Winding Temp Transformer
TS	Winding Temp Test Switch
ACT	Auxiliary CT B: 0.2 A
M	Tapchanger Motor
C	Operations Counter
AX	Counter Contact
89C	Hand Crank Cut-off Switch
LX - RX	Auxiliary Contactors
L - R	Lower - Raise Contactors
TR	Braking Rectifier
CR1 - 2	Braking Time Delay
34/L - 34/R	Tap Completion Contacts - Cam Operated
LSL - LSR	Limit Switches "Raise - Lower"
COL - COR	Cut-off Sw's - Open if T.C. Travel is Past LSL or LSR
TB1 - TB2	Terminal Boards
PNI, PN2, PI	Auxiliary Contacts
SI	Seal-in Relay - Main Tank

Current Xfmr's	CT Leads	Winding Temp	Junction Block Number
25, 26, 27, 28, 29, 30, 31, 32, 33	25, 26, 27, 28, 29, 30, 31, 32, 33	25, 26, 27, 28, 29, 30, 31, 32, 33	A, B, C



FEDERAL PACIFIC



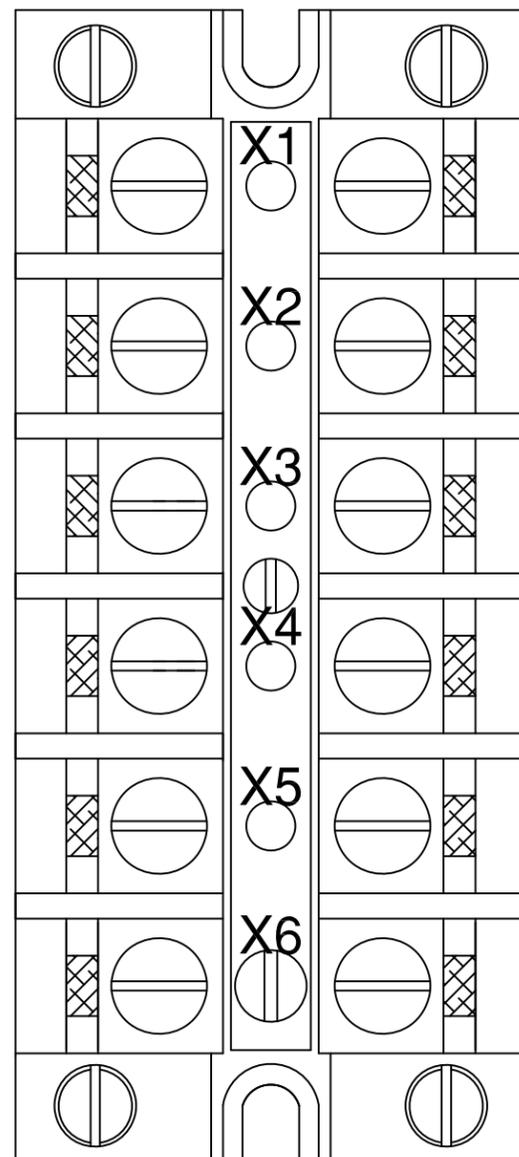
Established 1971

Remanufactured for

Bridger Coal Company

July 2005

Standard CT Hookup

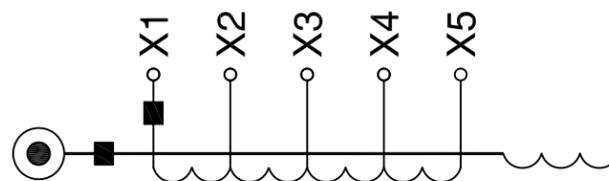


Current Transformers

H1-H2-H3 / (2) 600:5

Accuracy Class C400

Rating Factor 2.0



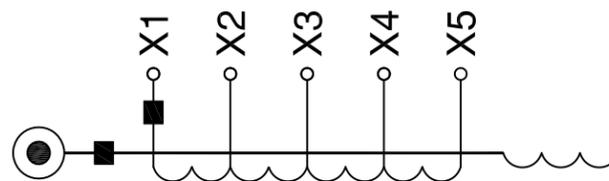
Taps	600A	1200A	2000A
X2-X3	50:5	100:5	800:5
X1-X2	100:5	200:5	400:5
X1-X3	150:5	300:5	1200:5
X4-X5	200:5	400:5	500:5
X3-X4	250:5	500:5	300:5
X2-X4	300:5	600:5	1100:5
X1-X4	400:5	800:5	1500:5
X3-X5	450:5	900:5	800:5
X2-X5	500:5	1000:5	1600:5
X1-X5	600:5	1200:5	2000:5

Current Transformers

X1-X2-X3-XO
(2) 1200:5

Accuracy Class C400

Rating Factor 2.0



Taps	600A	1200A	2000A
X2-X3	50:5	100:5	800:5
X1-X2	100:5	200:5	400:5
X1-X3	150:5	300:5	1200:5
X4-X5	200:5	400:5	500:5
X3-X4	250:5	500:5	300:5
X2-X4	300:5	600:5	1100:5
X1-X4	400:5	800:5	1500:5
X3-X5	450:5	900:5	800:5
X2-X5	500:5	1000:5	1600:5
X1-X5	600:5	1200:5	2000:5

ATTACHMENT B

BILL OF SALE

BILL OF SALE

KNOW ALL MEN BY THESE PRESENTS: Bridger Coal Company, a Wyoming joint venture company (“**Seller**”), for and in consideration of the sum of \$355,950.00 and other good and valuable consideration (the “**Purchase Price**”), provided by PacifiCorp (“**Purchaser**”), the receipt of which is hereby acknowledged, does hereby sell, assign, transfer, set over, deliver and convey to Purchaser all of its right, title and interest in the Transformers described on Annex A attached hereto unto Purchaser and to Purchaser’s successors and assigns forever, along with, whatever claims and rights Seller may have against the manufacturer and/or supplier of the Transformers, including, but not limited to, all warranties and representations.

Purchaser is purchasing the Transformers pursuant to the Purchase and Sale Agreement, dated as of October 24, 2022, by and between Purchaser and Seller (the “**PSA**”). Seller represents and warrants to Purchaser and its successors and assigns that (i) Purchaser will acquire by the terms of this Bill of Sale good and marketable title to the Transformers free from all Liens (other than Permitted Liens) and (2) Seller has the full, legal and beneficial title to the Transformers, as well as the right to sell and convey the Transformers. Seller agrees with Purchaser and its successors and assigns that Seller will warrant and forever defend such title so conveyed against all claims and demands whatsoever. All terms used herein which are not otherwise defined herein shall have the meaning ascribed to them in the PSA, and the rules of usage set forth therein shall apply hereto.

THIS BILL OF SALE SHALL IN ALL RESPECTS BE GOVERNED BY AND CONSTRUED IN ACCORDANCE WITH THE LAWS OF THE STATE OF WYOMING.

[Remainder of page intentionally left blank]

IN WITNESS WHEREOF, Purchaser and Seller have executed and delivered this Bill of Sale this 24 day of October 2022.

PURCHASER:

SELLER:

PACIFICORP

BRIDGER COAL COMPANY

By: Russell Updike
Name: Russell Updike
Title: Director

By: Jon C. Brown
Name: Jon C. Brown
Title: General Manager

ATTACHMENT C

INVOICE

(#18518)

Invoice

BRIDGER COAL COMPANY

932 Nine Mile Rd
P. O. Box 68
Point of Rocks, WY 82942

Ph: (307) 922-7600
Fax: (307) 362-5330

Date: 24-Oct-22
Invoice #: **18518**
Release No.
Terms: Due upon Receipt
WO: 10079468
FOB:

Bill To:

Rocky Mountain Power
Attn: Alex Vaz
1407 W North Temple, Suite 270
Salt Lake City, UT 84116

Ship To:

Rocky Mountain Power
Pick up at minesite

Re:

Ln#	DESCRIPTION	RATE	QUANTITY	AMOUNT
1	MagneTek Viking Power Transformer Class: OA/FA 3-phase 60 HZ Ser. No. A0223V General Electric Transformer Class: OA/FA 3-phase 60 HZ Ser. No. H880573A Sold as is no implied or express warranty.			339,000.00
Total Amount				\$ 339,000.00
5% Sales Tax				\$ 16,950.00
Shipping				
Total Invoice				\$ 355,950.00
Balance Due				\$ 355,950.00

Message

Wiring Instructions:
Bank: JP Morgan Chase
Address: Chicago, IL
ABA: 021000021
Account Number: 09-49558
Account Name: Bridger Coal Company
Beneficiary Address: 932 Nine Mile Road, Point of Rocks, WY 82942