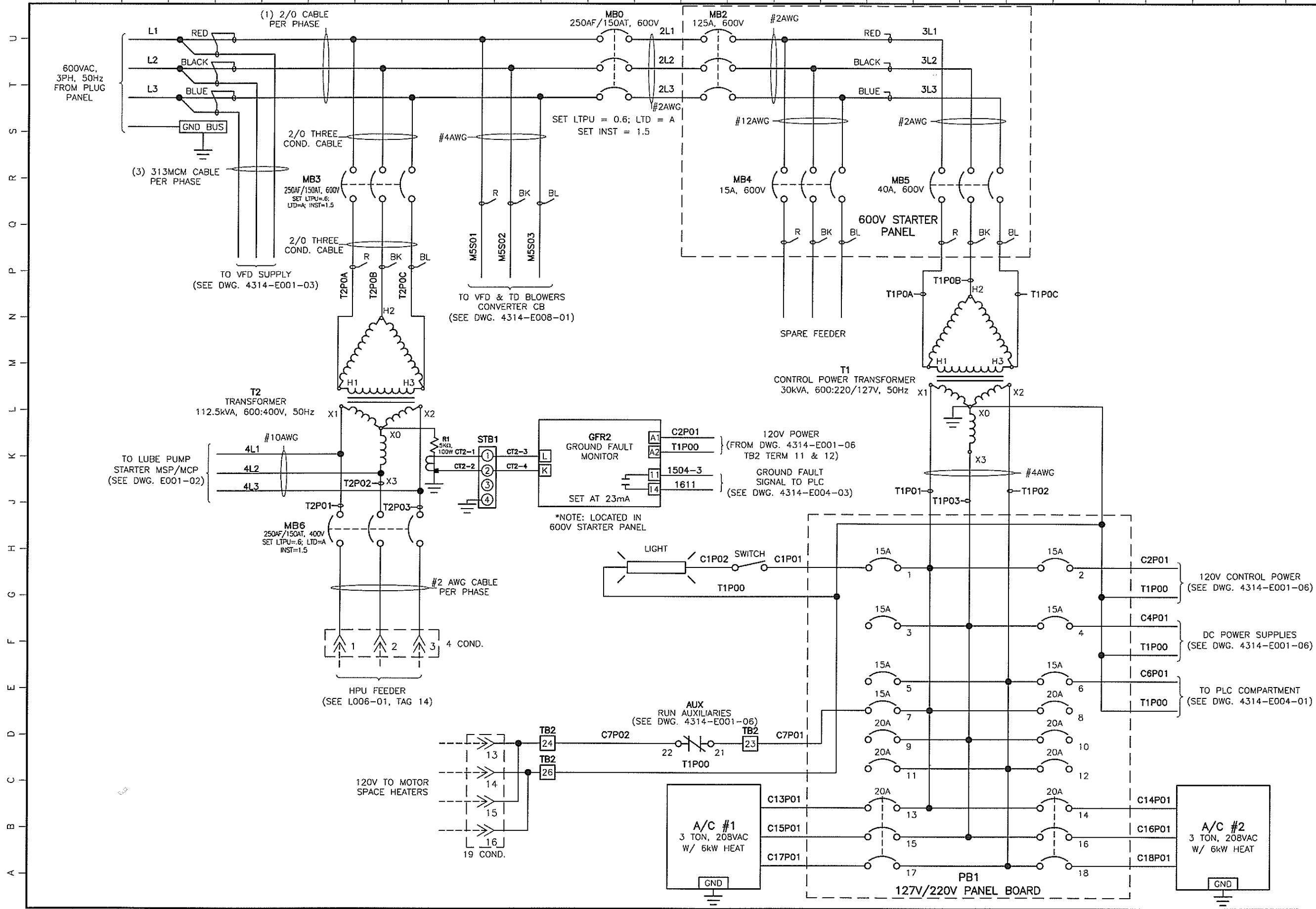


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SHEET SIZE: B

<p>CUSTOMER/PROJECT LEWCO 500 TON AC TOP DRIVE HOUSE</p> <p>DRAWING TITLE 1100HP VARIABLE FREQUENCY DRIVE ELECTRICAL SCHEMATIC</p> <p>DRAWING NO. 600V/208V DISTRIBUTION</p> <p>JOB NO. 4314</p> <p>REV. 0</p>	<p>DATE 5/17/07</p> <p>APPROVALS DRAWN: OW APPROVED: [Signature]</p> <p>REVISION DATA</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>REV</th> <th>DATE</th> <th>DESCRIPTION</th> </tr> </thead> <tbody> <tr> <td>0</td> <td>11/1/07</td> <td>AS TESTED/AS SHIPPED</td> </tr> </tbody> </table>	REV	DATE	DESCRIPTION	0	11/1/07	AS TESTED/AS SHIPPED	<p>Letourneau Technologies, Inc. Power Systems 6401 W. Sam Houston Pkwy. N. Houston, TX 77041 Phone: 713-983-4700 Fax: 713-983-4701 www.letourneau.com/power</p> <p style="font-size: small;">THIS DRAWING/INFORMATION IS THE PROPERTY OF LETOURNEAU TECHNOLOGIES, INC. AND IS LOANED UNDER CONDITION THAT IT IS NOT TO BE REPRODUCED OR COPIED IN WHOLE OR IN PART AND IS TO BE RETURNED UPON REQUEST. COPYRIGHT © 2007 LETOURNEAU TECHNOLOGIES, INC.</p> <p style="text-align: right;">DRAWING NO. 4314-E001-01</p>
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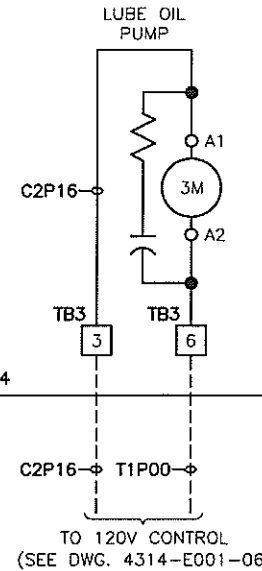
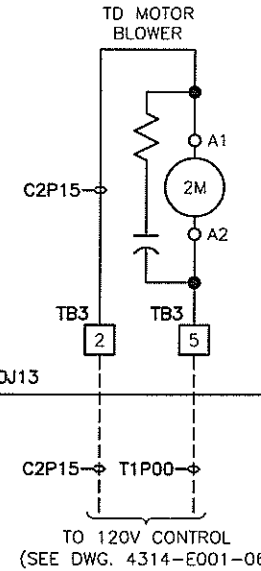
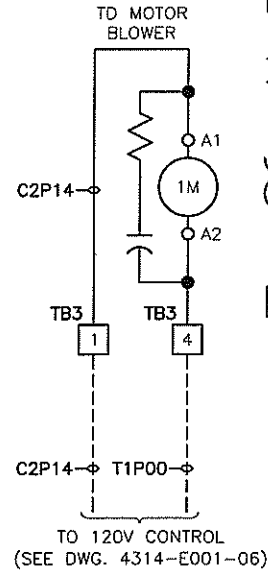
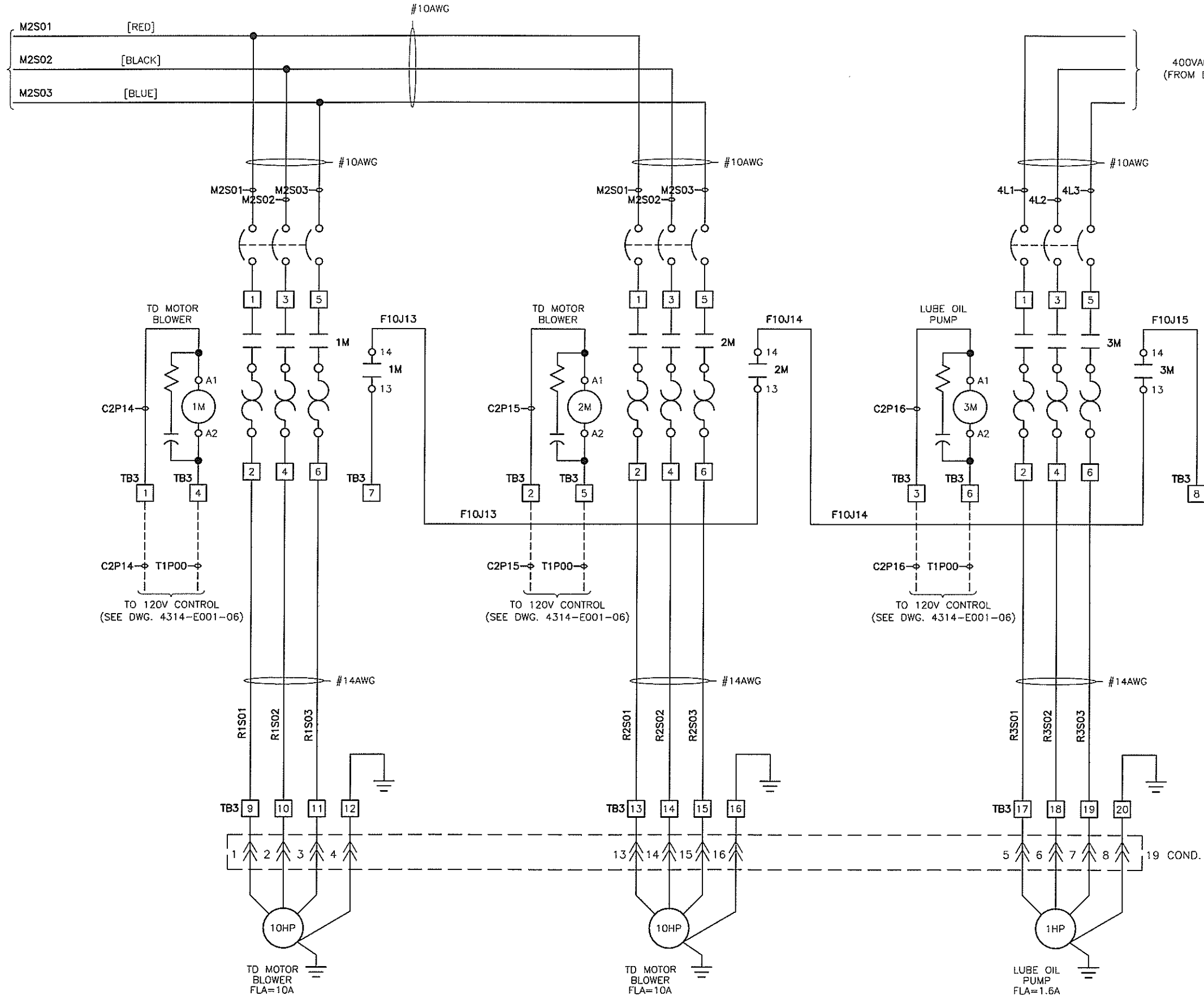
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SHEET SIZE: B

600VAC, 3PH, 60Hz
(FROM DWG. E008-01)

400VAC, 3PH, 50Hz
(FROM DWG. E001-01)



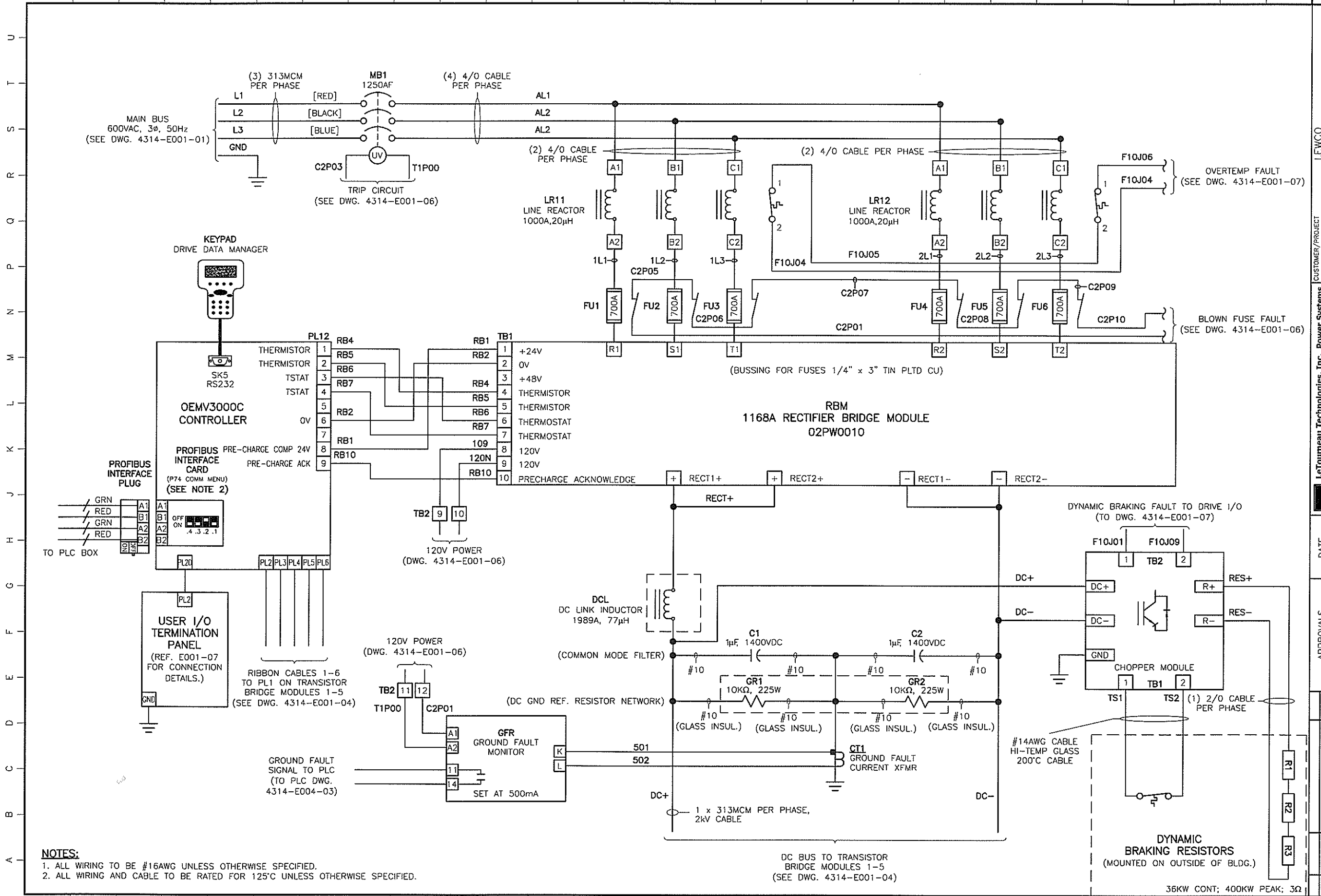
CUSTOMER/PROJECT
LEWCO
500 TON AC TOP DRIVE HOUSE
DRAWING TITLE 1100HP VARIABLE FREQUENCY DRIVE
ELECTRICAL SCHEMATIC
AUXILIARY MOTOR STARTER PANEL
JOB NO. 4314
DRAWING NO. 4314-02
REV. 0

LeTourneau Technologies, Inc. Power Systems
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OEM-S10-E002-B1 REV. A

REV	DATE	DESCRIPTION	REV BY
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CUSTOMER/PROJECT		LEWCO	
500 TON AC TOP DRIVE HOUSE		0	
DRAWING TITLE 1100HP VARIABLE FREQUENCY DRIVE ELECTRICAL SCHEMATIC		REV	
VFD POWER INTERCONNECT		4314	
DRAWING NO. 4314		4314-E001-03	
JOB NO. 4314		REV. 0	
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LETOURNEAU TECHNOLOGIES, INC.		REV. 0	
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Phone: 713-983-4700 Fax: 713-983-4701		5/17/07	
www.letourneau.com/power		DRAWN	
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OEM-STD-E002-B1 REV. A		OW	
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0		11/01/07	
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NOTES:
 1. ALL WIRING TO BE #16AWG UNLESS OTHERWISE SPECIFIED.
 2. ALL WIRING AND CABLE TO BE RATED FOR 125°C UNLESS OTHERWISE SPECIFIED.

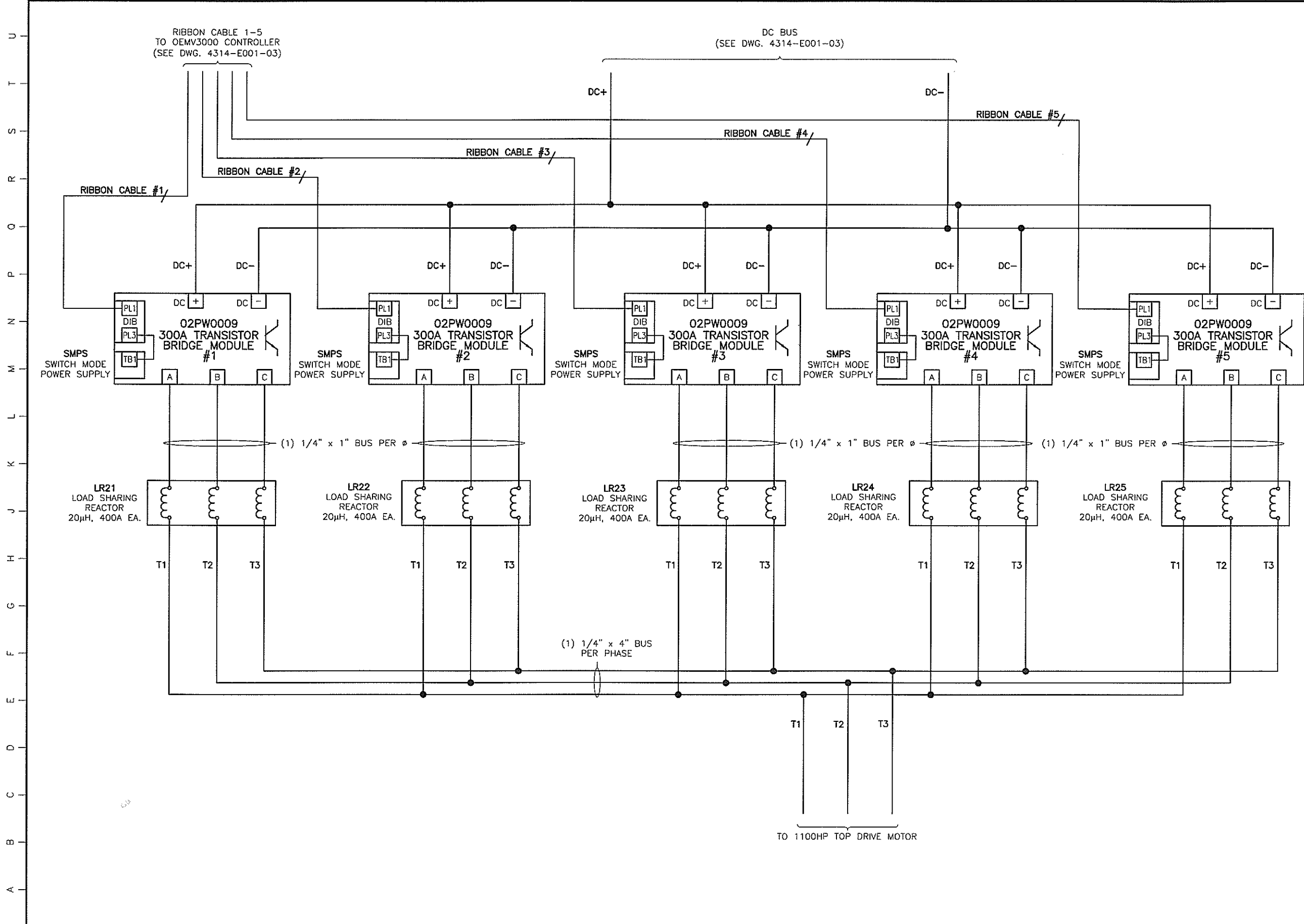
DC BUS TO TRANSISTOR BRIDGE MODULES 1-5 (SEE DWG. 4314-E001-04)

DYNAMIC BRAKING RESISTORS (MOUNTED ON OUTSIDE OF BLDG.)

36KW CONT; 400KW PEAK; 3Ω

01 02 03 04 05 06 07 08 09 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27

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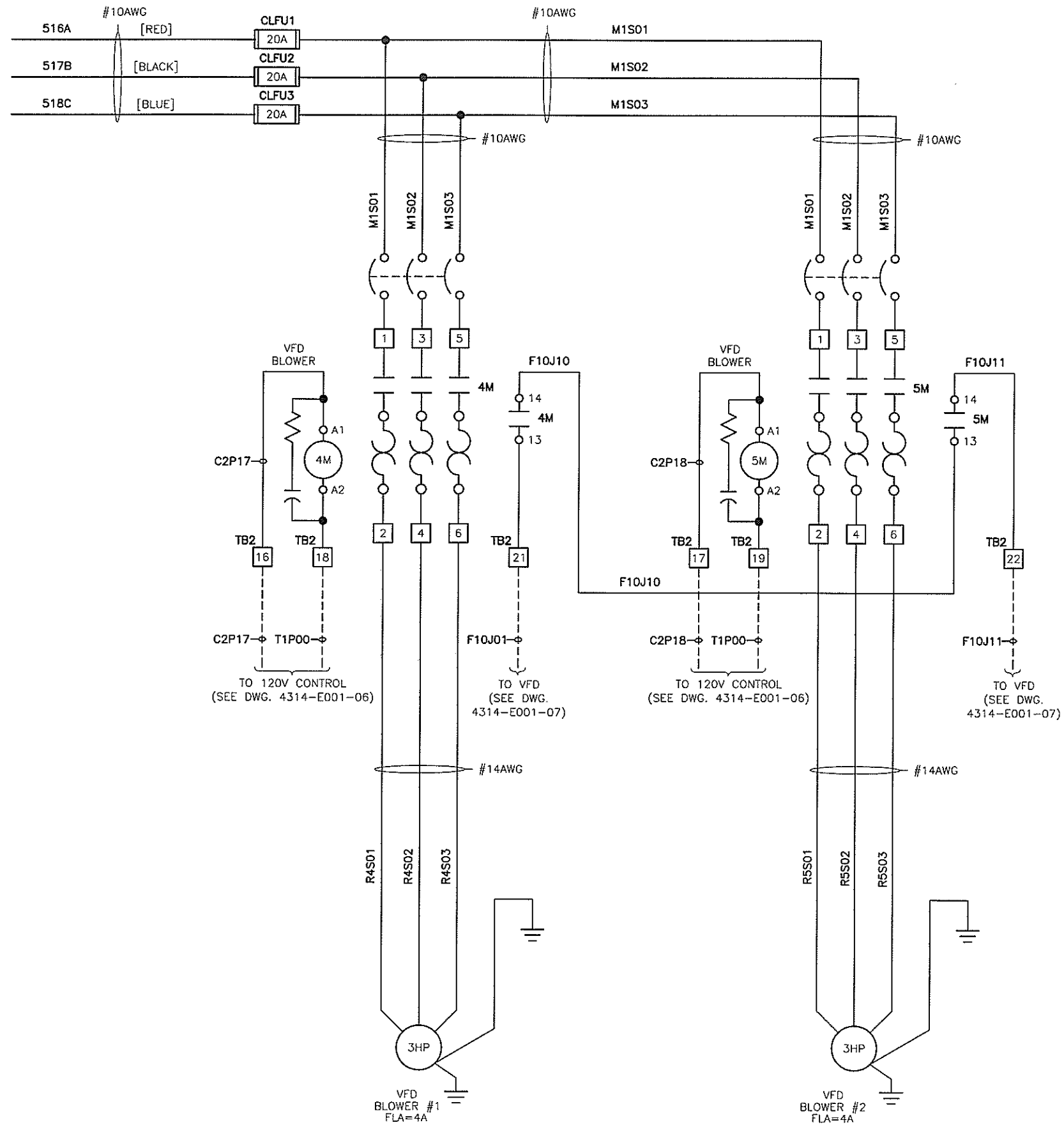
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CUSTOMER/PROJECT LEWCO 500 TON AC TOP DRIVE HOUSE		DRAWING NO. 4314	REV 0
DRAWING TITLE 1100HP VARIABLE FREQUENCY DRIVE ELECTRICAL SCHEMATIC		DRAWING NO. 4314-E001-04	
LEtourneau Technologies, Inc. Power Systems 6401 W. Sam Houston Pkwy. N. Houston, TX 77041 Phone: 713-983-4700 Fax: 713-983-4701 www.letourneau.com/power		LEtourneau Technologies, Inc. Copyright © 2007 OEM-STD-E002-B1 REV. A	
DATE 5/17/07	APPROVALS OW	TO 1100HP TOP DRIVE MOTOR	
DRAWN OW	APPROVED [Signature]	AS TESTED/AS SHIPPED DATE 11/01/07	REVISION DATA REV 0

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600VAC, 3PH, 60Hz
(SEE DWG. E008-01)

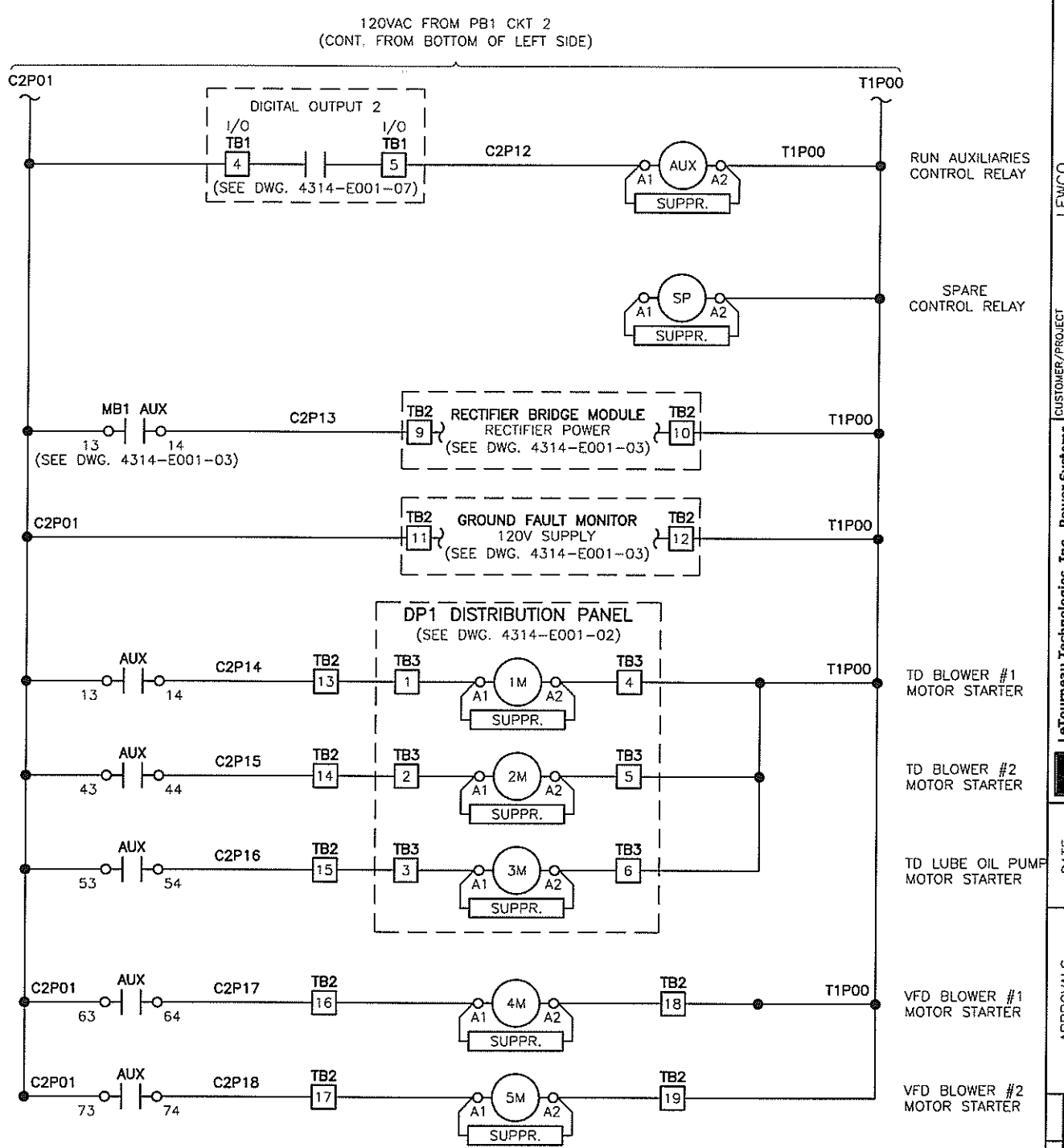
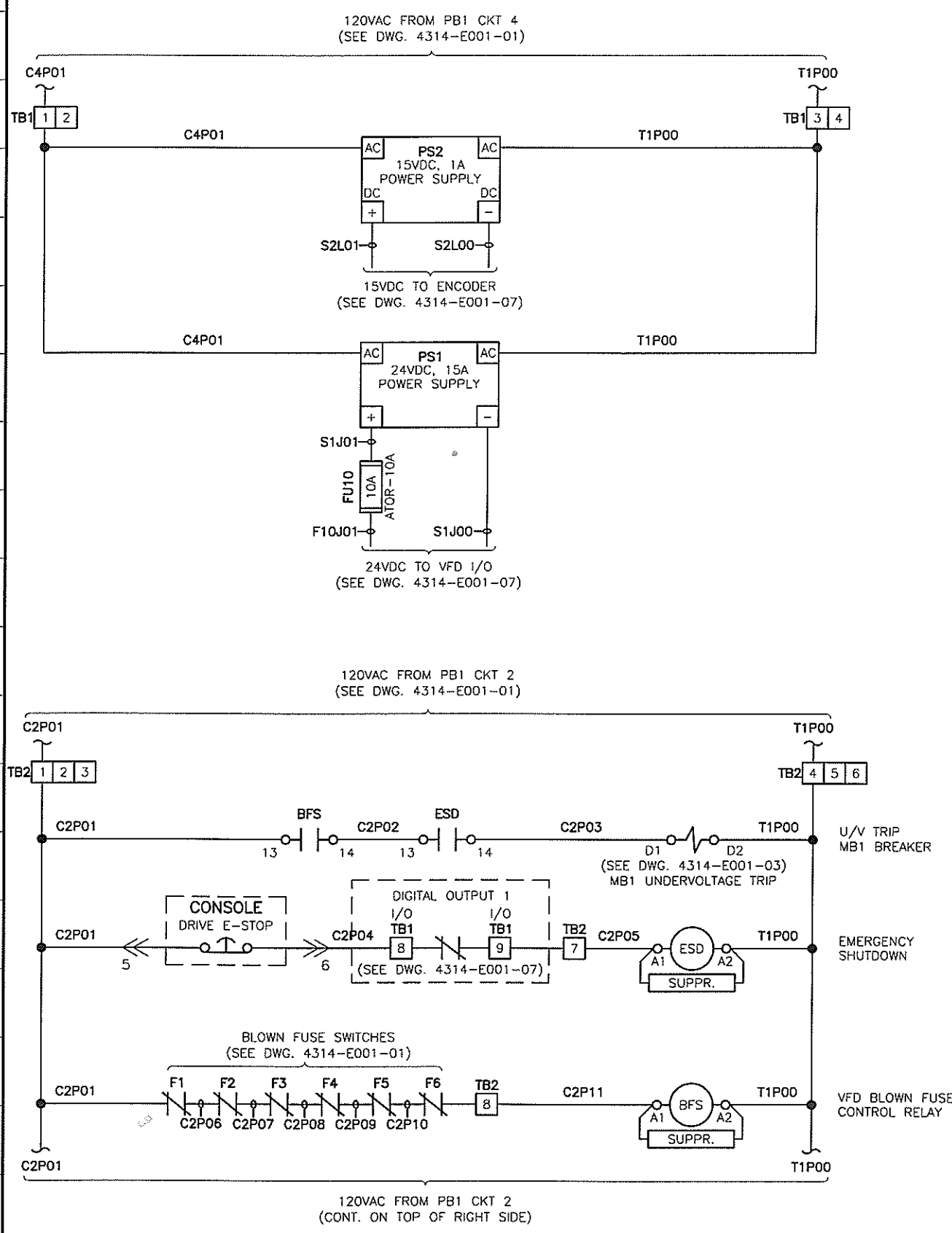


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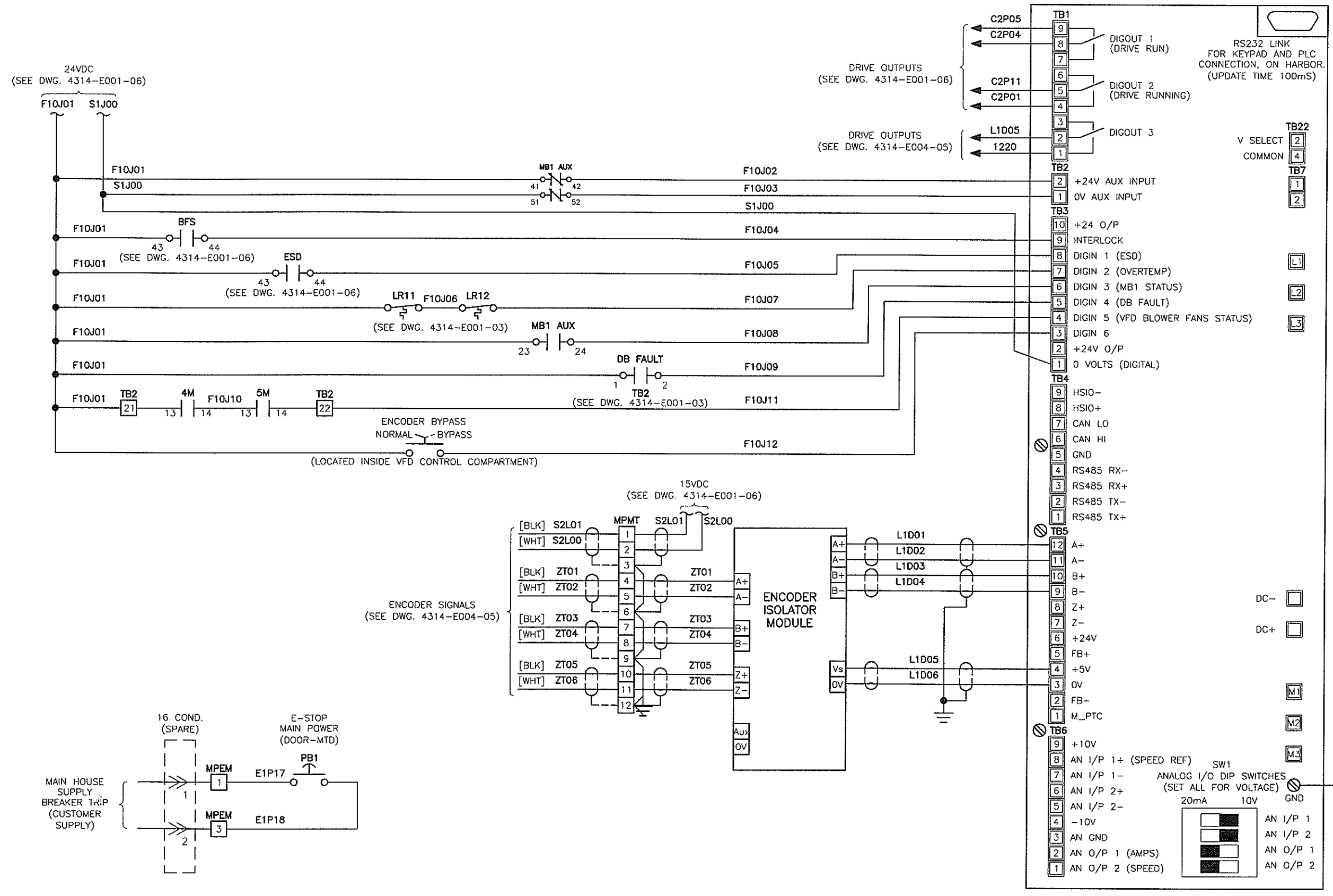
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DRAWING TITLE	1100HP VARIABLE FREQUENCY DRIVE ELECTRICAL SCHEMATIC
JOB NO.	4314
DRAWING NO.	4314-E001-05
REV.	0
<p>Letourneau Technologies, Inc. Power Systems 6401 W. Sam Houston Pkwy. N. Houston, TX 77041 Phone: 713-983-4700 Fax: 713-983-4701 www.letourneautech.com/power</p> <p><small>THIS DRAWING/INFORMATION IS THE PROPERTY OF LETOURNEAU TECHNOLOGIES, INC. AND IS LOANED UPON CONDITION THAT IT IS NOT TO BE REPRODUCED OR COPIED IN WHOLE OR IN PART AND IS TO BE RETURNED UPON REQUEST.</small></p> <p>05M-STD-E002-B1-REV A LETOURNEAU TECHNOLOGIES, INC. COPYRIGHT © 2007</p>	
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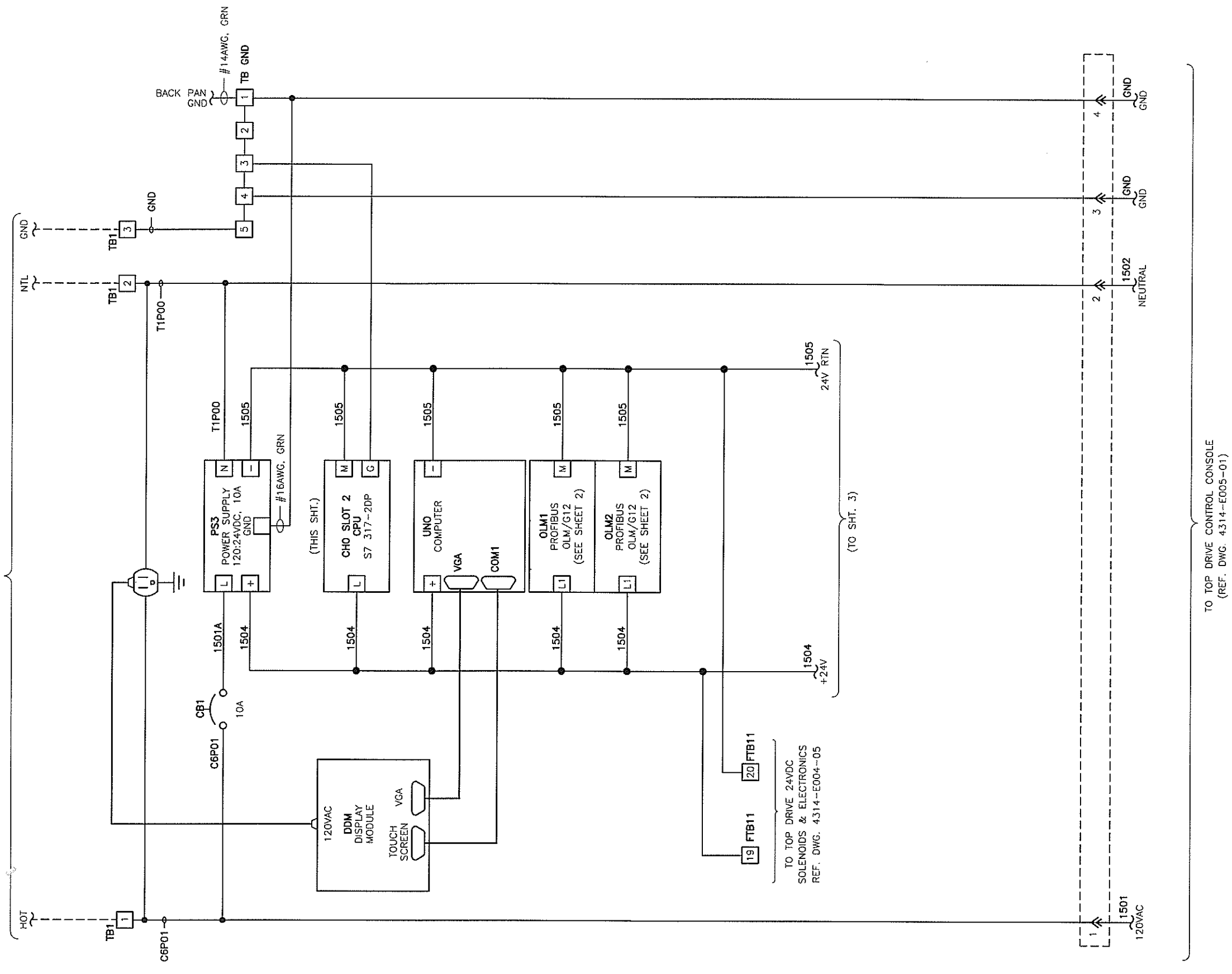
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DRAWING TITLE		500 TON AC TOP DRIVE HOUSE	
DRAWING NO.		4314-E001-06	
JOB NO.		4314	
REV		0	
<p>Letourneau Technologies, Inc. Power Systems 6401 W. Sam Houston Pkwy, N. Houston, TX 77041 Phone: 713-983-4700 Fax: 713-983-4701 www.letourneautech.com/power</p> <p>THIS DRAWING/INFORMATION IS THE PROPERTY OF LETOURNEAU TECHNOLOGIES, INC. AND IS LOANED UPON CONDITION THAT IT IS NOT TO BE REPRODUCED OR COPIED IN WHOLE OR IN PART AND IS TO BE RETURNED UPON REQUEST. © 2007 LETOURNEAU TECHNOLOGIES, INC.</p>			
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120VAC FROM 120/208V PANELBOARD (15A CB6)



NOTES:
1. --- DENOTES FIELD WIRING.

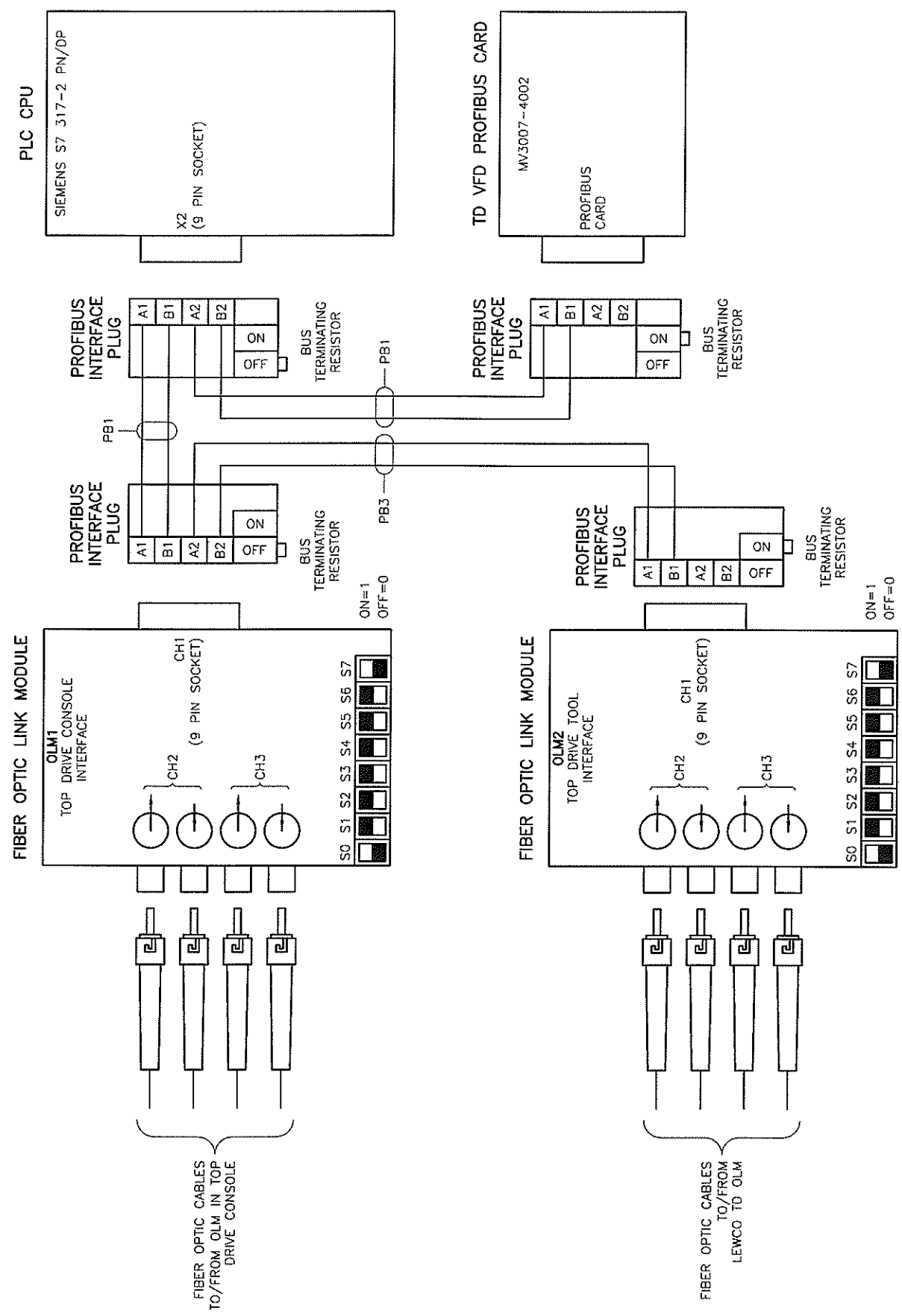
TO TOP DRIVE CONTROL CONSOLE
(REF. DWG. 4314-E005-01)

SHEET SIZE: B	
CUSTOMER/PROJECT: LEWCO 500 TON AC TOP DRIVE HOUSE	
DRAWING TITLE: LOW VOLTAGE COMPARTMENT PLC CONTROL SCHEMATIC	
JOB NO. 4314	DRAWING NO. 4314-E004-01
REV. 0	REV. 0

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REV	DATE	DESCRIPTION	APPROVALS	DATE
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NOTES:
 1. FOR PROPER PROFIBUS CONNECTOR MAKE-UP THE CABLE'S OUTER JACKET SHOULD BE STRIPPED BACK FAR ENOUGH TO ENSURE SHIELD CLAMP IN CONNECTOR MAKES GOOD CONNECTION/CONTACT TO CABLE SHIELD.

OEM-STD-E002-B1 REV A		LEWCO TECHNOLOGIES, INC.	
LEWCO		CUSTOMER/PROJECT	
500 TON AC TOP DRIVE HOUSE		500 TON AC TOP DRIVE HOUSE	
LOW VOLTAGE COMPARTMENT		DRAWING TITLE	
PLC CONTROL SCHEMATIC		(COMMUNICATION INTERFACE)	
JOB NO. 4-314		DRAWING NO. 4-314-E004-02	
REV 0		REV 0	

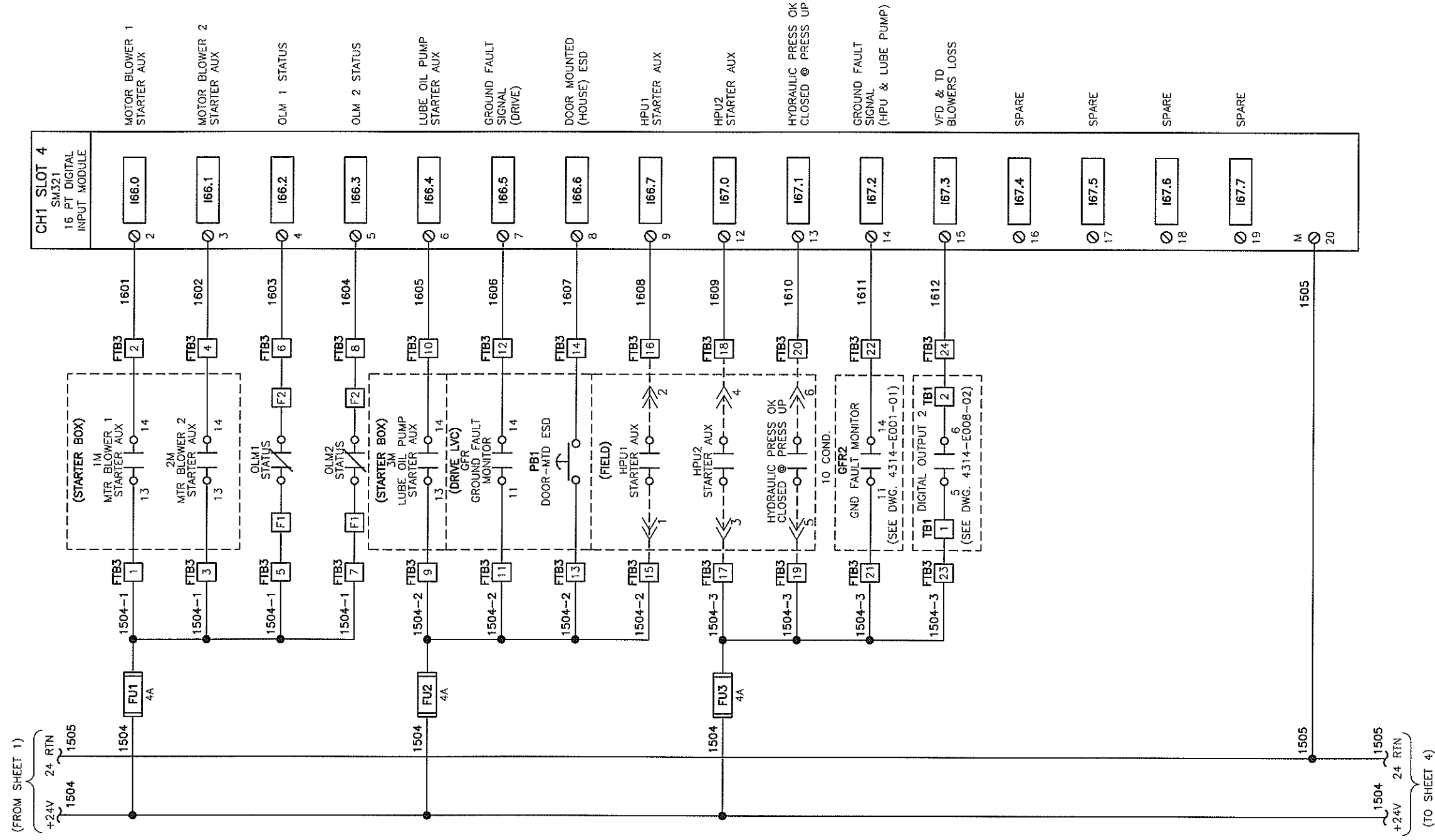
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APPROVALS	DATE
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APPROVED	11/01/07
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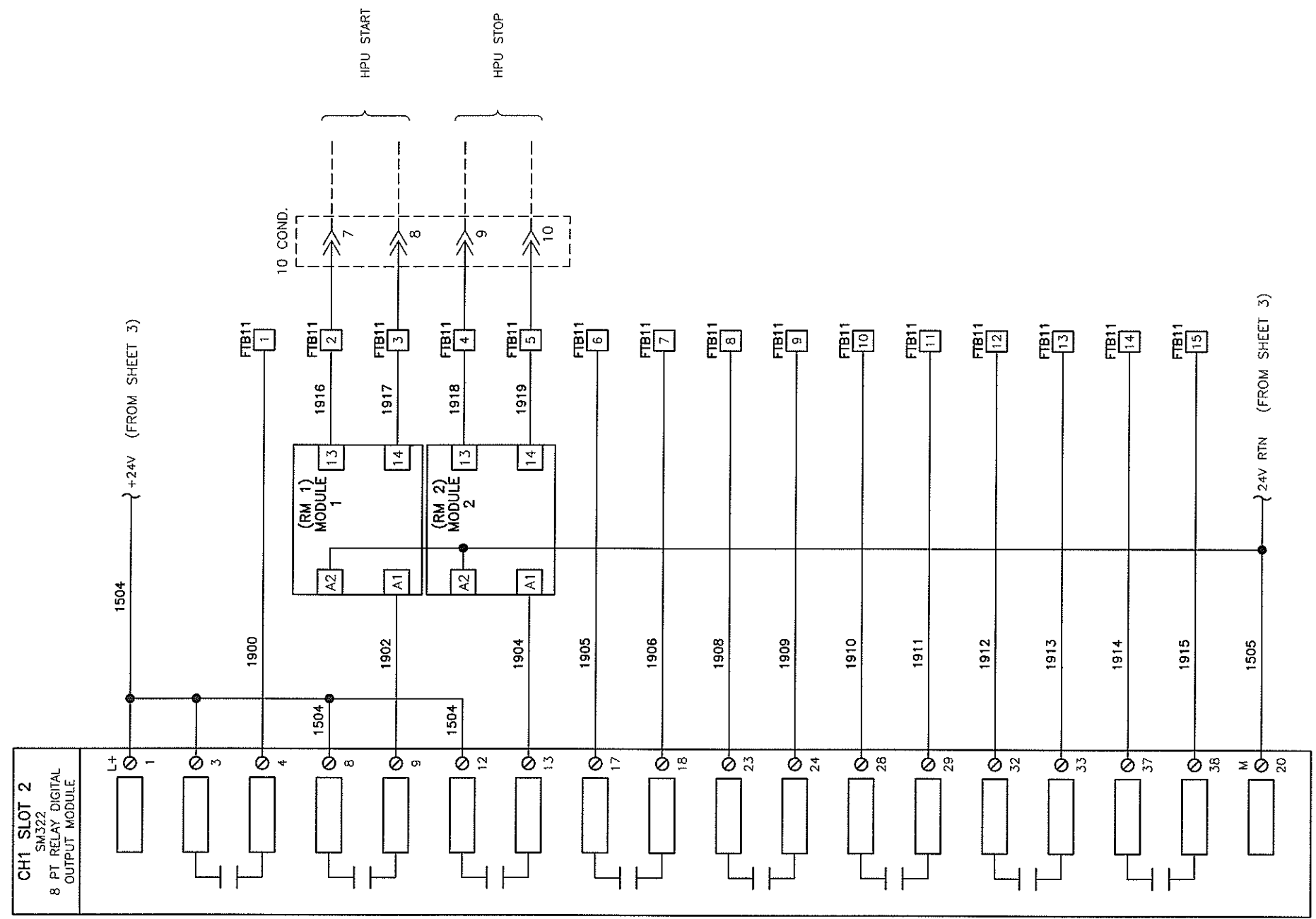
NOTES:
1. --- DENOTES FIELD WIRING.

SHEET SIZE: B													
CUSTOMER/PROJECT	LEWCO												
DRAWING TITLE	500 TON AC TOP DRIVE HOUSE LOW VOLTAGE COMPARTMENT PLC CONTROL SCHEMATIC (DIGITAL INPUT #1)												
JOB NO.	4314												
DRAWING NO.	4314-E004--03												
REV.	0												
DATE	5/31/07												
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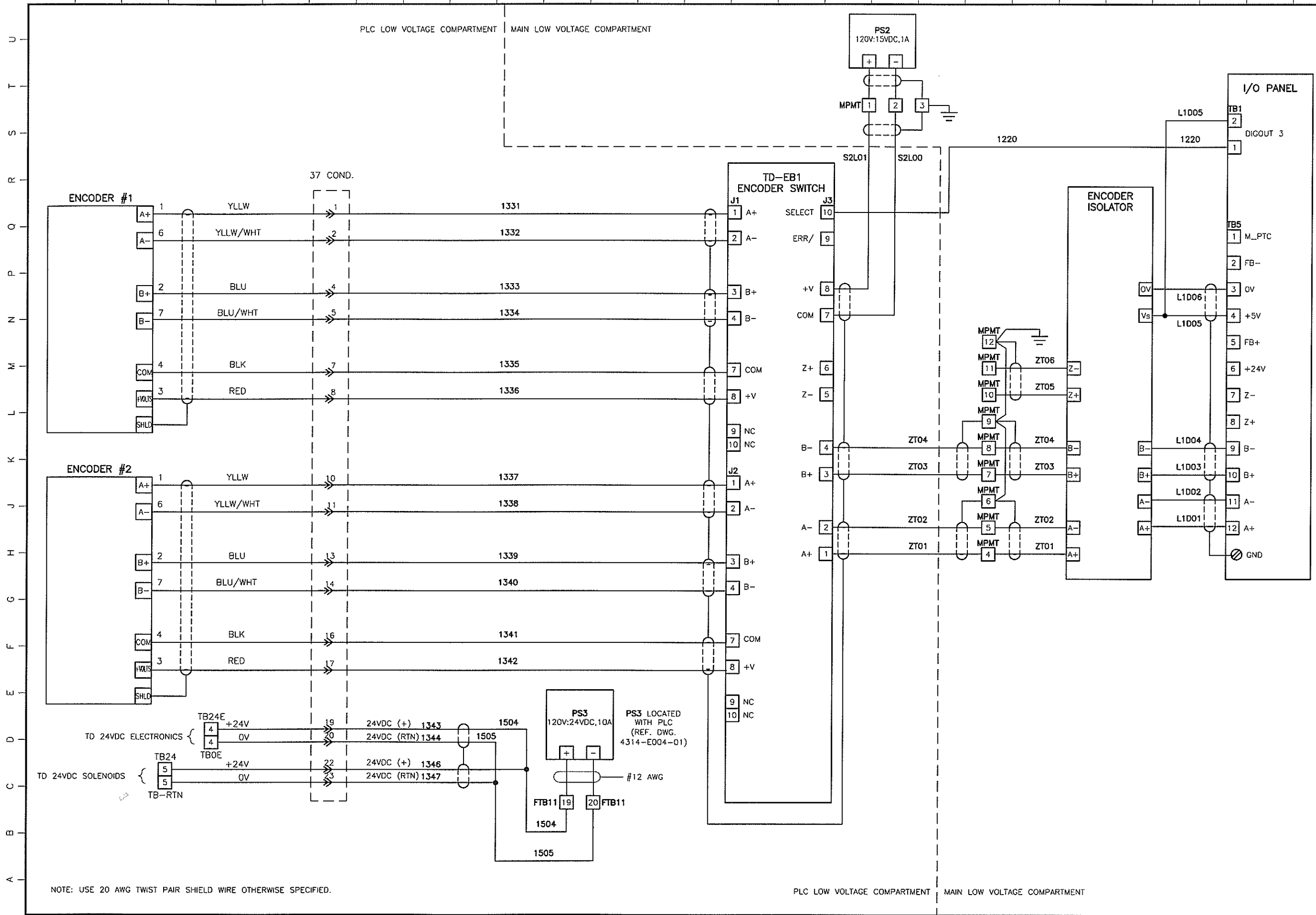
024-STD-E002-B1 REV A
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NOTES:
 1. DENOTES FIELD WIRING.
 2. RELAY OUTPUTS ARE RATED AT 120VAC. ANY INCREASE WILL REQUIRE INSTALLATION OF INTERPOSING RELAYS.

SHEET SIZE: B	
CUSTOMER/PROJECT: LEWCO 500 TON AC TOP DRIVE HOUSE	
DRAWING TITLE: LOW VOLTAGE COMPARTMENT PLC CONTROL SCHEMATIC (DIGITAL OUTPUT #1)	
JOB NO. 4-314	DRAWING NO. 4-314-E004-04
REV. 0	REV. 0

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NOTE: USE 20 AWG TWIST PAIR SHIELD WIRE OTHERWISE SPECIFIED.

PLC LOW VOLTAGE COMPARTMENT MAIN LOW VOLTAGE COMPARTMENT

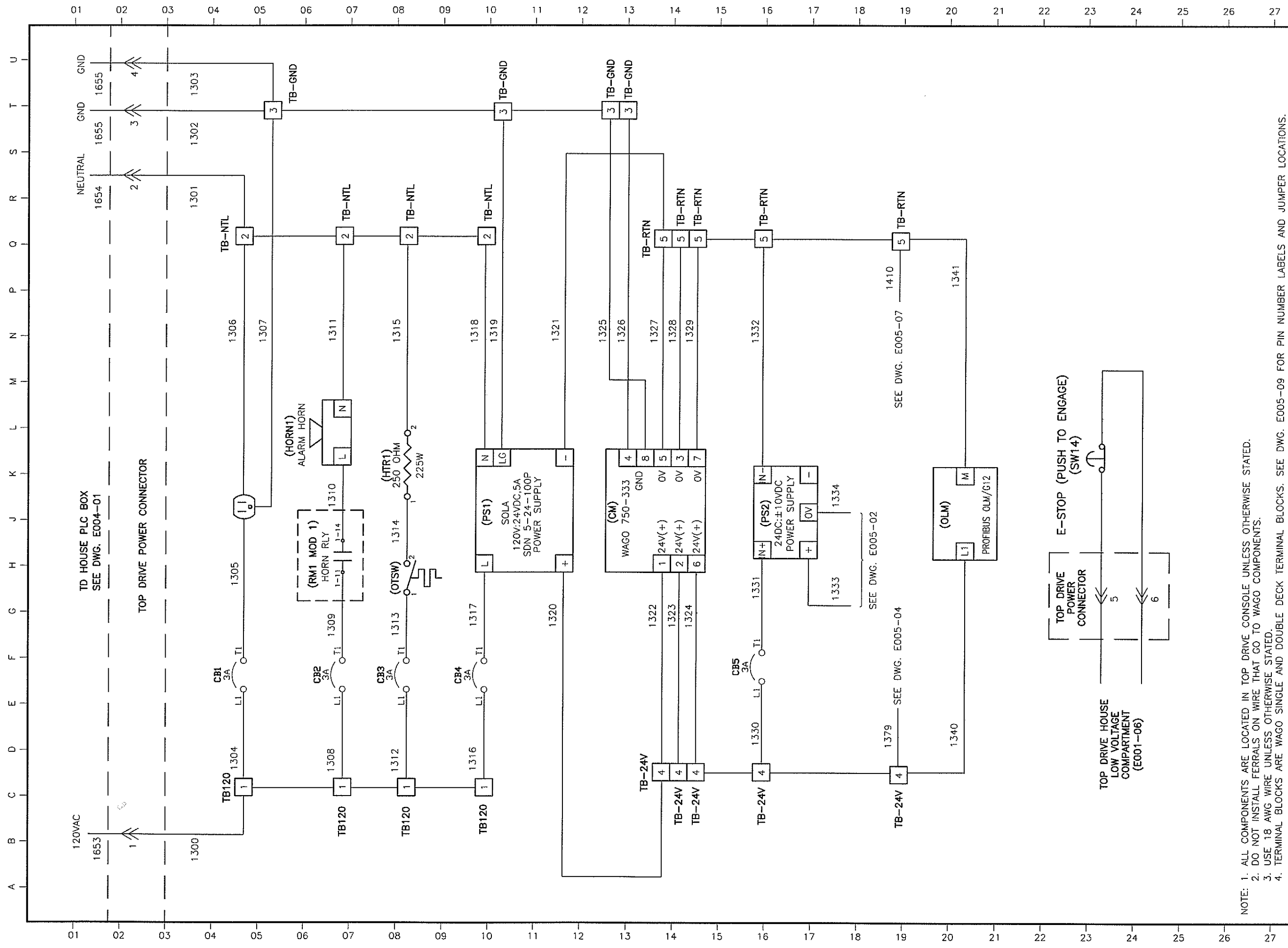
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 500 TON AC TOP DRIVE HOUSE
 DRAWING TITLE: TOP DRIVE ENCODER SIGNAL CONTROL SCHEMATIC
 JOB NO.: 4314
 DRAWING NO.: 4314
 REV: 0

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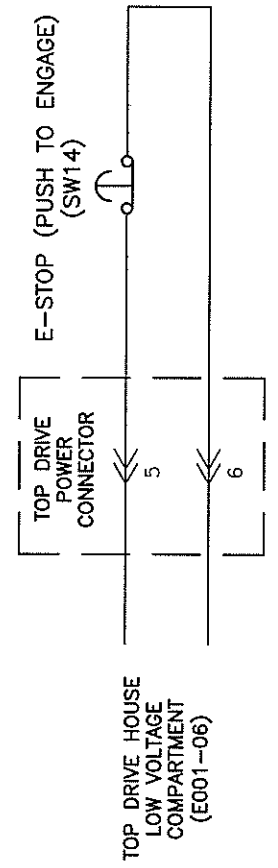
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TD HOUSE PLC BOX
SEE DWG. E004-01

TOP DRIVE POWER CONNECTOR



NOTE: 1. ALL COMPONENTS ARE LOCATED IN TOP DRIVE CONSOLE UNLESS OTHERWISE STATED.
 2. DO NOT INSTALL FERRALS ON WIRE THAT GO TO WAGO COMPONENTS.
 3. USE 18 AWG WIRE UNLESS OTHERWISE STATED.
 4. TERMINAL BLOCKS ARE WAGO SINGLE AND DOUBLE DECK TERMINAL BLOCKS. SEE DWG. E005-09 FOR PIN NUMBER LABELS AND JUMPER LOCATIONS.

REV	DATE	DESCRIPTION	AS TESTED/AS SHIPPED	OW	REV BY
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APPROVED	11/01/07

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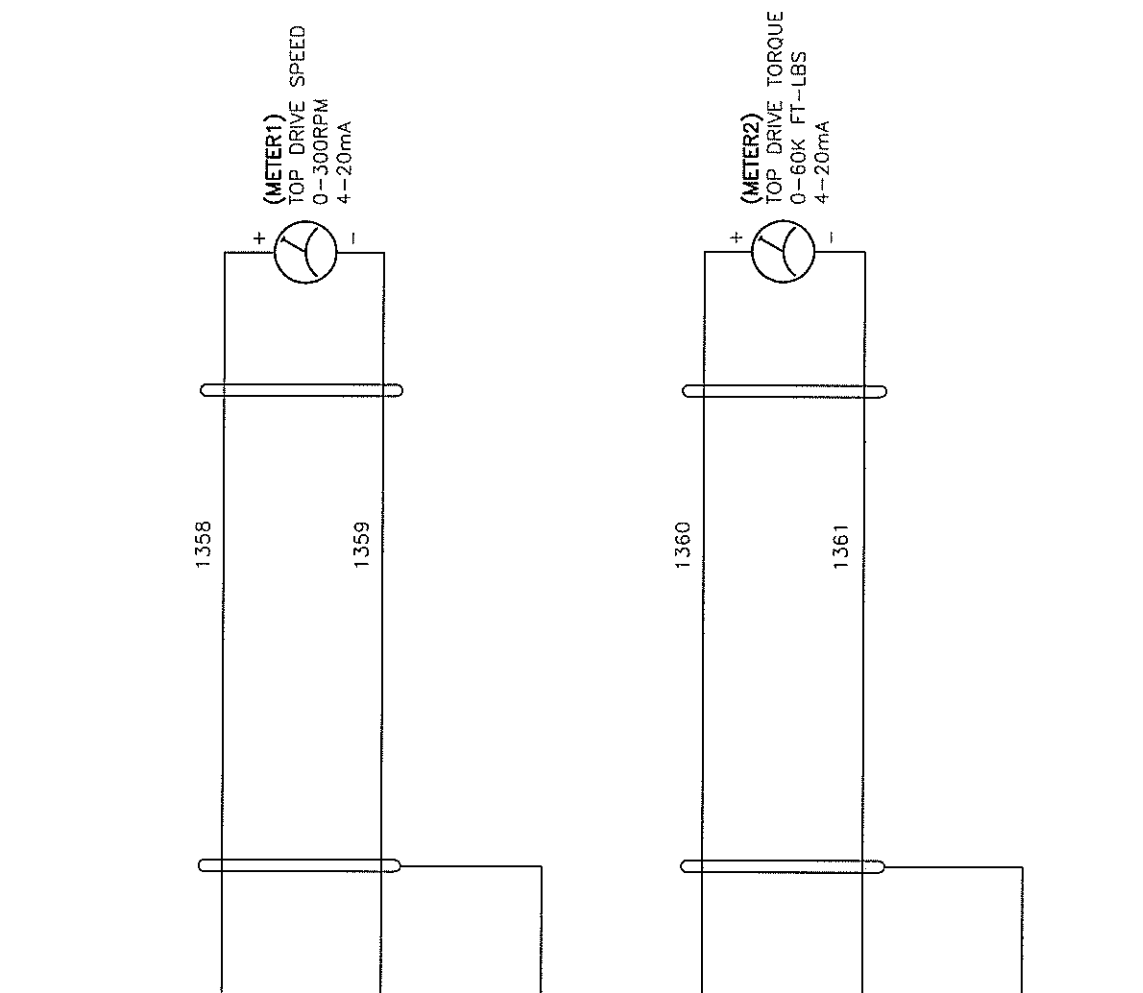
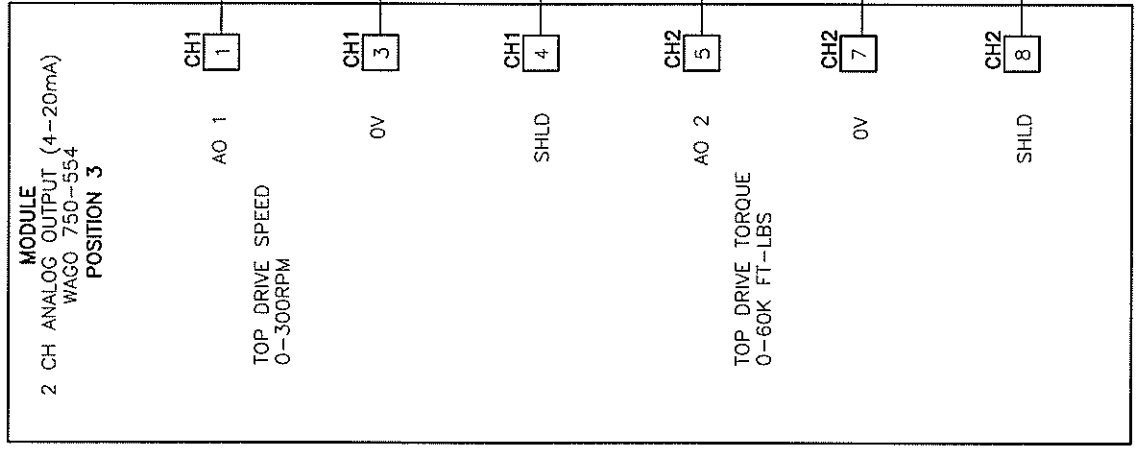
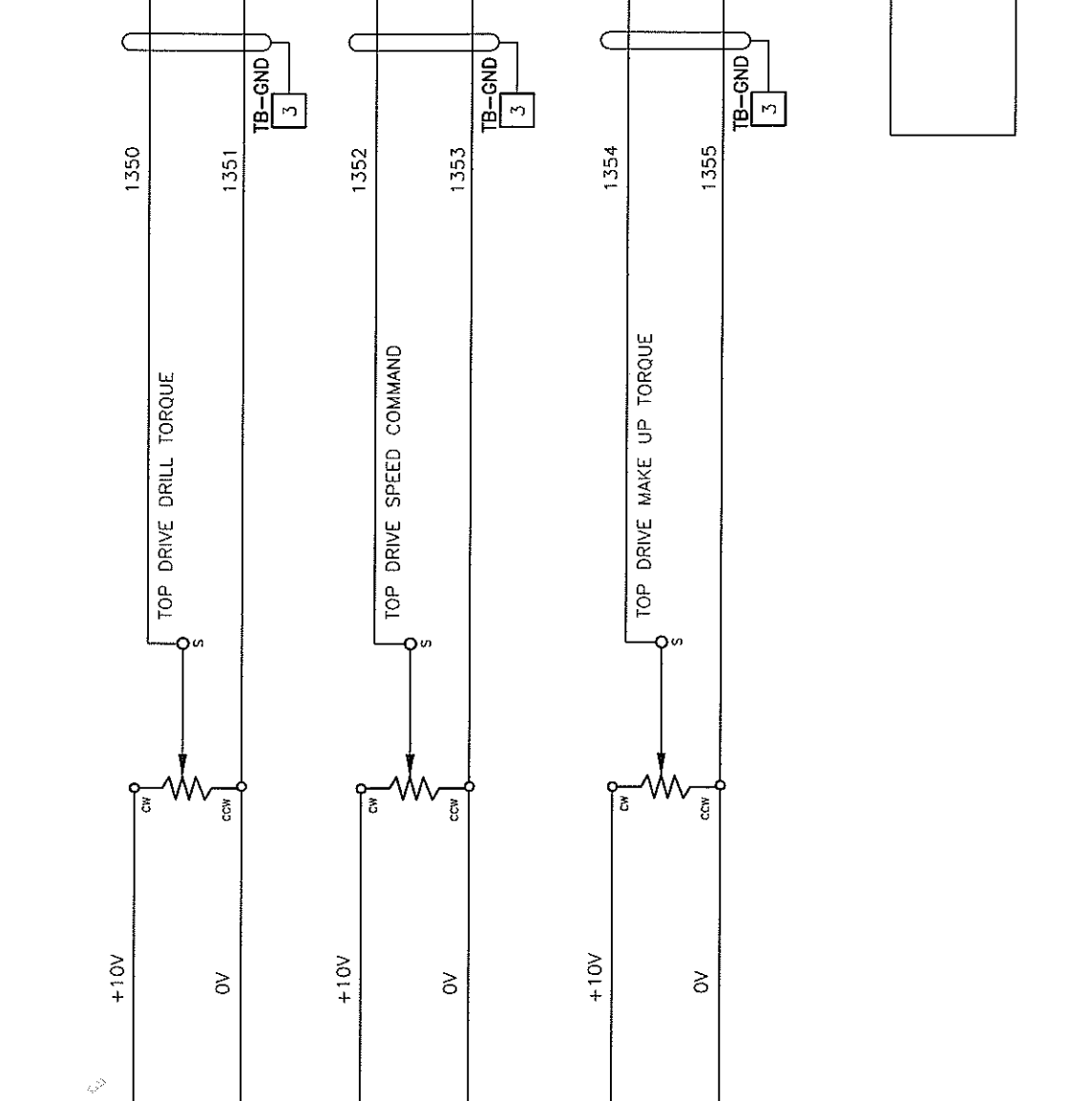
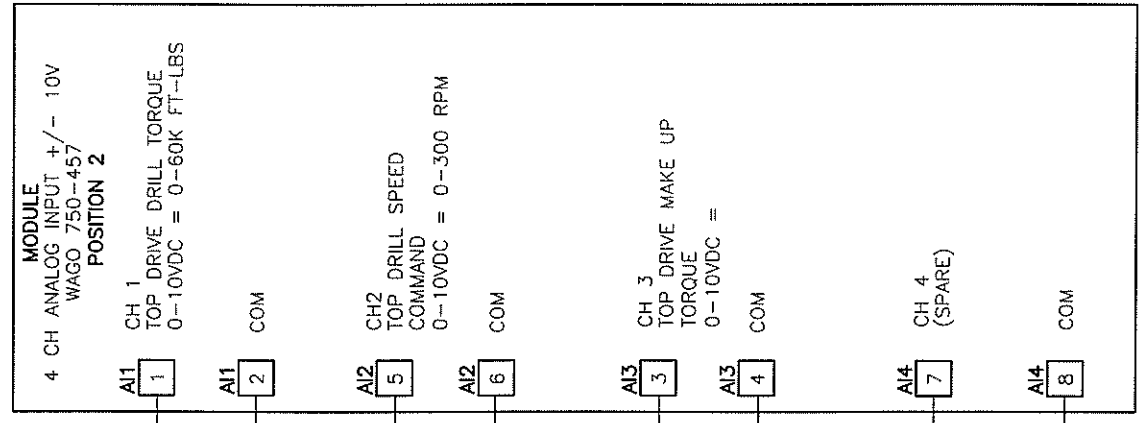
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 500 TON AC TOP DRIVE HOUSE
 DRAWING TITLE: TOP DRIVE CONSOLE CONTROL SCHEMATIC
 JOB NO.: 4314
 DRAWING NO.: 4314-E005-01
 REV. 0

SHEET SIZE: B

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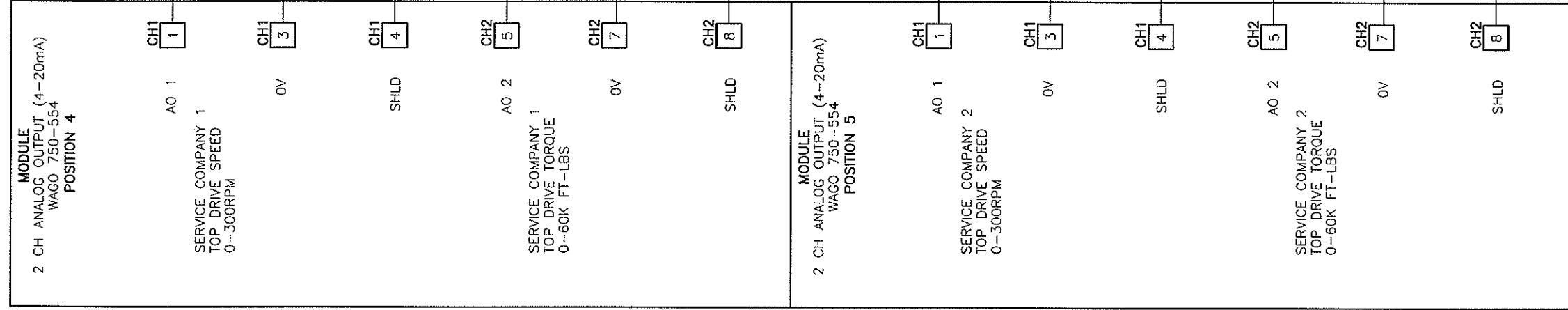
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DRAWING TITLE: TOP DRIVE CONSOLE CONTROL SCHEMATIC	
JOB NO. 4-314	DRAWING NO. 4314-E005--02
<p>LeTourneau Technologies, Inc. Power Systems 6401 W. Sam Houston Pkwy, N. Houston, TX 77041 Phone: 713-983-4700 Fax: 713-983-4701 www.letourneau.com/power</p> <p><small>THIS DRAWING/INFORMATION IS THE PROPERTY OF LETOURNEAU TECHNOLOGIES, INC. AND IS LOANED UPON CONDITION THAT IT IS NOT TO BE REPRODUCED, COPIED IN WHOLE OR IN PART AND IS TO BE RETURNED UPON REQUEST. © 2007 LETOURNEAU TECHNOLOGIES, INC. OEM-STD-E002-B1 REV A</small></p>	
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A B C D E F G H J K L M N P Q R S T U



(SVC1SPD)
SERVICE COMPANY 1
TOP DRIVE SPEED
0-300RPM
4-20mA

(SVC1TRQ)
SERVICE COMPANY 1
TOP DRIVE TORQUE
0-60K FT-LBS
4-20mA

(SVC2SPD)
SERVICE COMPANY 2
TOP DRIVE SPEED
0-300RPM
4-20mA

(SVC2TRQ)
SERVICE COMPANY 2
TOP DRIVE TORQUE
0-60K FT-LBS
4-20mA

SHEET SIZE: B	
CUSTOMER/PROJECT: LEWCO 500 TON AC TOP DRIVE HOUSE	
DRAWING TITLE: TOP DRIVE CONSOLE CONTROL SCHEMATIC	
JOB NO. 4314	DRAWING NO. 4314-E005-03
REV 0	REV 0

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<small>OEM-STD-E002-B1 REV. A</small>	

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APPROVED	11/01/07

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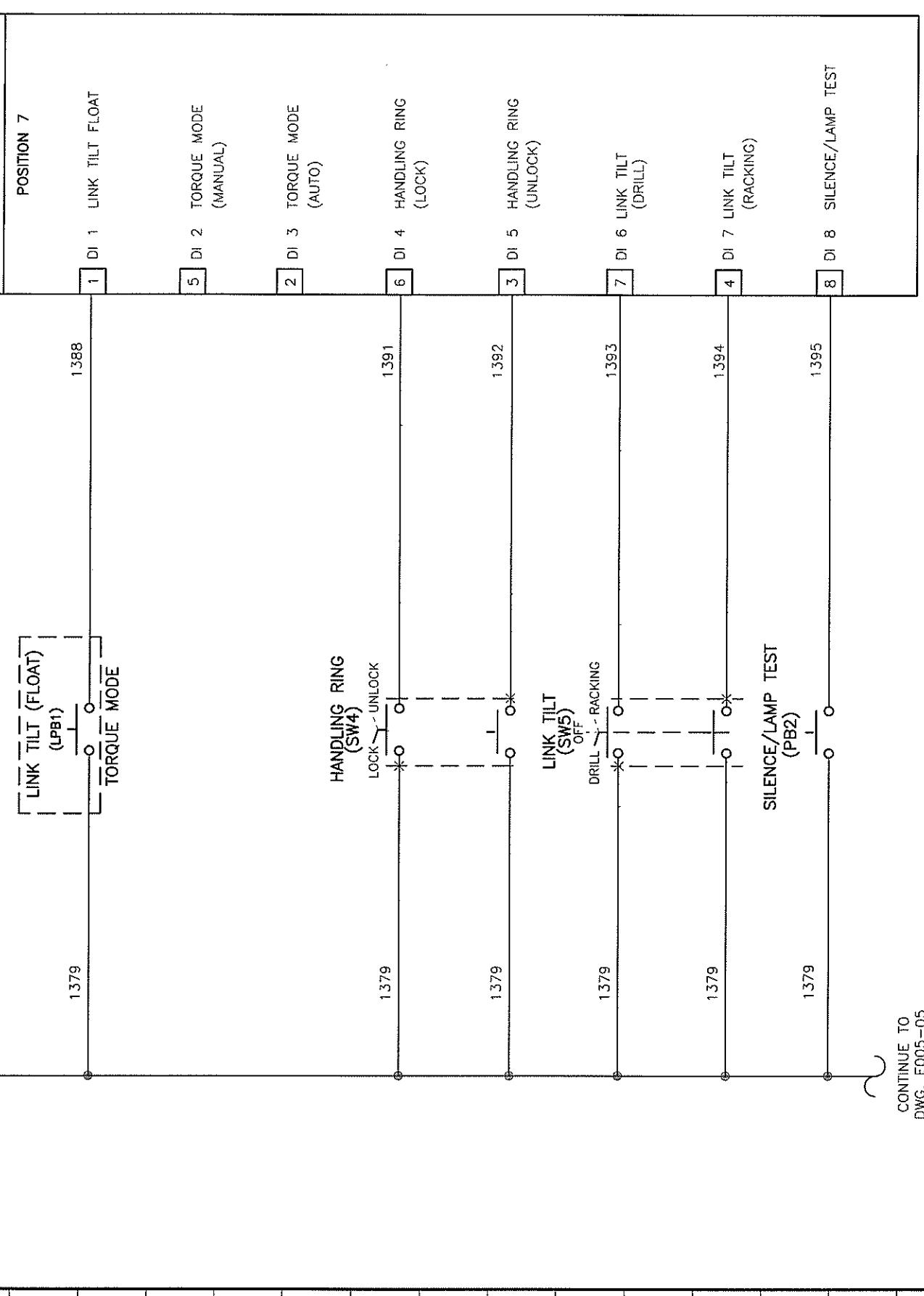
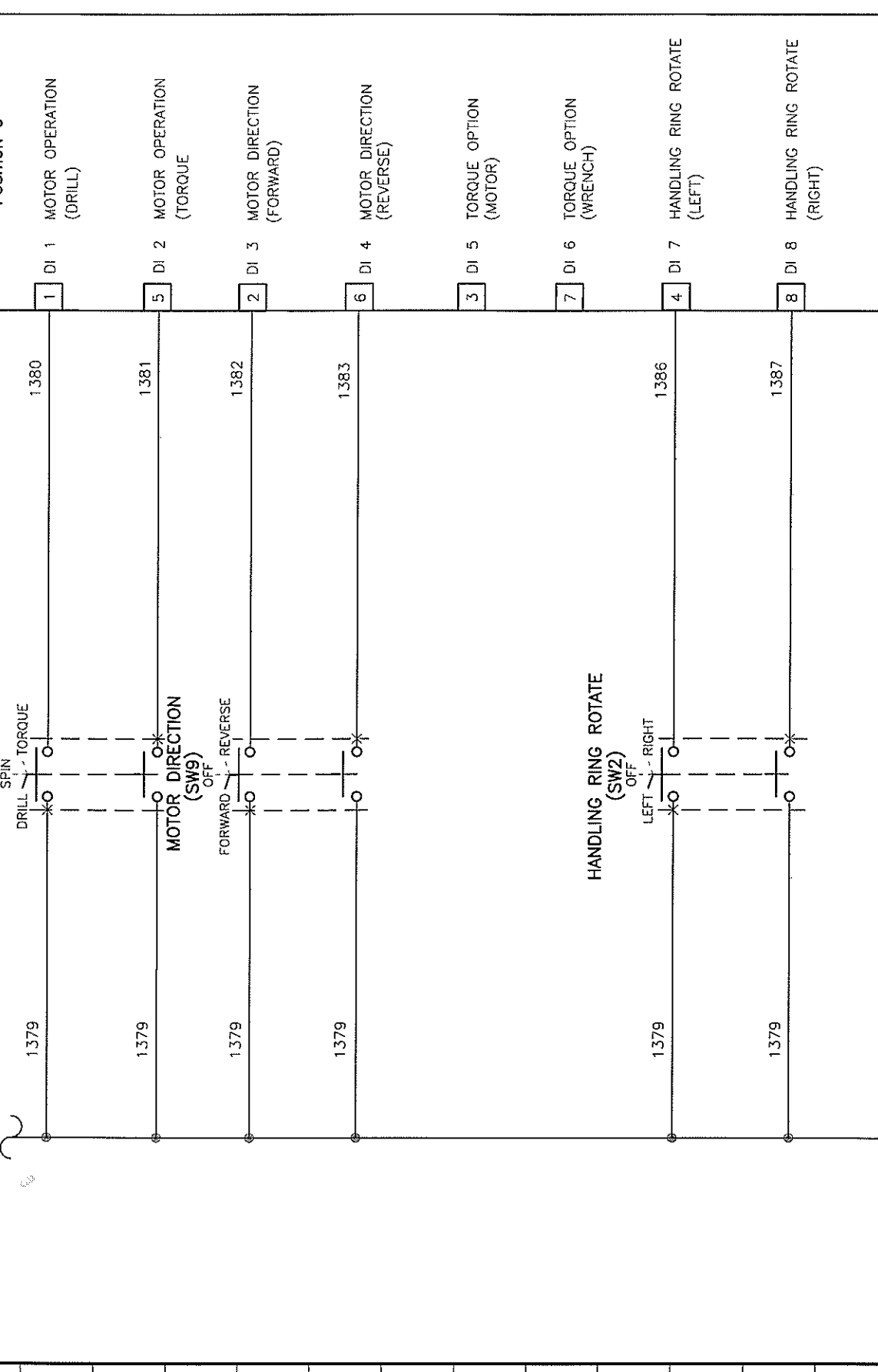
A B C D E F G H J K L M N P Q R S T U

MODULE
8 CH DISCRETE INPUT 24VDC
WAGO 750-430

24V FROM TB-24V
DWG. E005-01

MOTOR OPERATION
(SW8)

POSITION 6

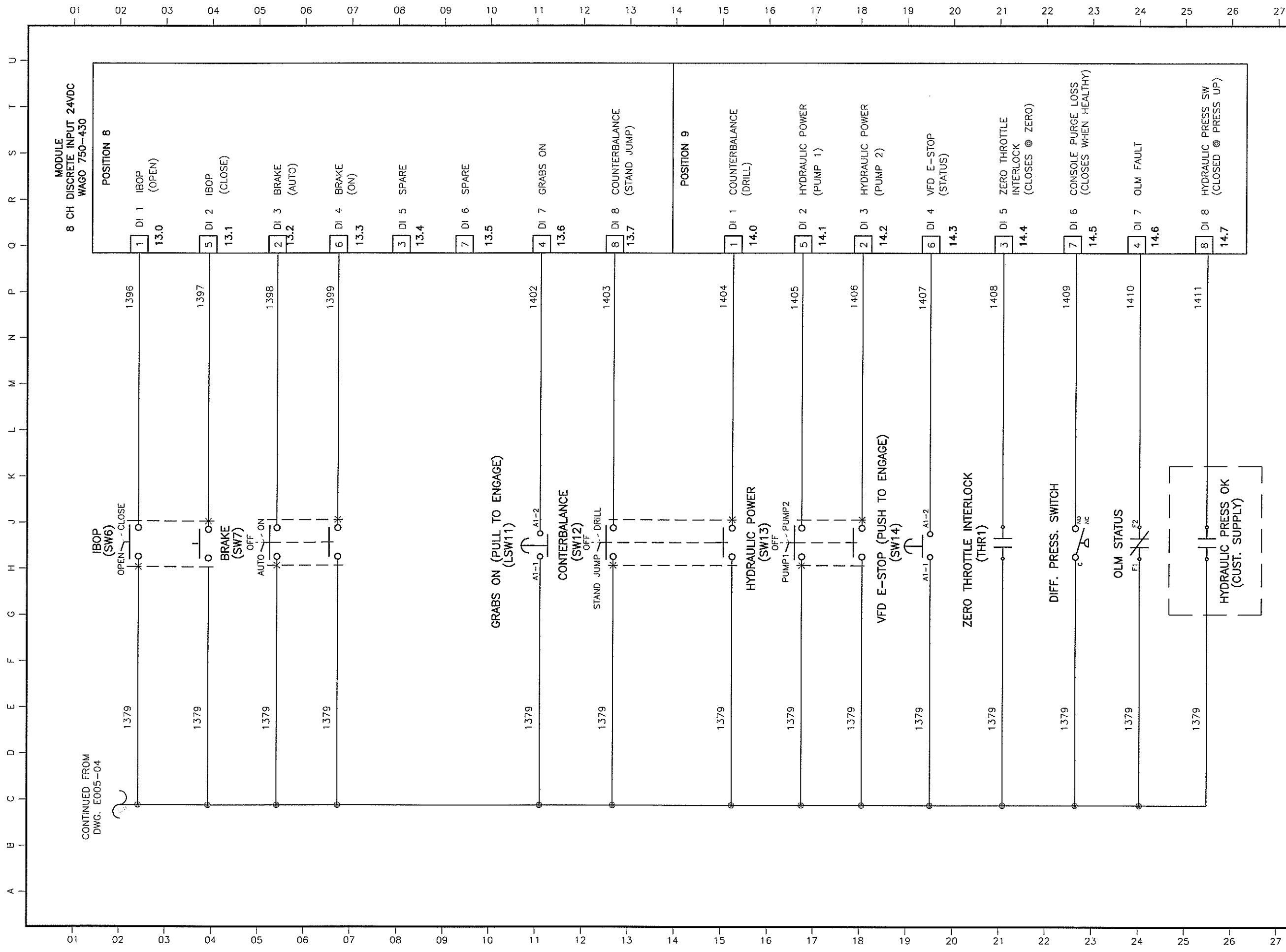


CONTINUE TO
DWG. E005-05

SHEET SIZE: B	
CUSTOMER/PROJECT: LEWCO	
500 TON AC TOP DRIVE HOUSE	
DRAWING TITLE: TOP DRIVE CONSOLE CONTROL SCHEMATIC	
JOB NO: 4314	DRAWING NO: 4314-E005-04
REV: 0	REV: 0

Letourneau Technologies, Inc. Power Systems 6401 W. Sam Houston Pkwy. N. Houston, TX 77041 Phone: 713-983-4700 Fax: 713-983-4701 www.letourneau.com/power	
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DATE	6/21/07
APPROVALS	OW
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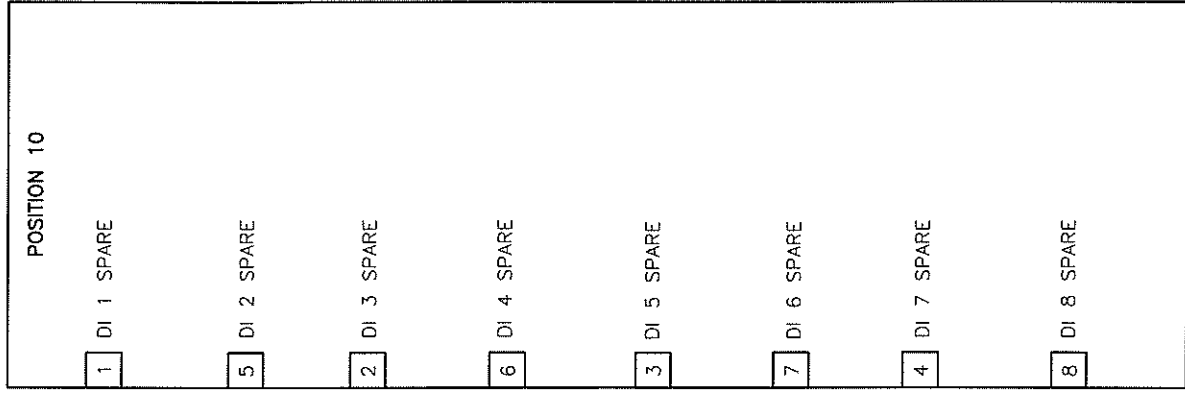
CONTINUED FROM
DWG. E005-04

SHEET SIZE: B	
CUSTOMER/PROJECT	LEWCO 500 TON AC TOP DRIVE HOUSE
DRAWING TITLE	TOP DRIVE CONSOLE CONTROL SCHEMATIC
JOB NO.	DRAWING NO.
4314	4314
LETOURNEAU TECHNOLOGIES, INC. 6401 W. Sam Houston Pkwy. N. Houston, TX 77041 Phone: 713-983-4700 Fax: 713-983-4701 www.letourneau.com/power <small>THIS DRAWING/INFORMATION IS THE PROPERTY OF LETOURNEAU TECHNOLOGIES, INC. AND IS TO BE RETURNED UPON REQUEST. COPIED IN WHOLE OR IN PART AND IS TO BE RETURNED UPON REQUEST.</small> OLM-STD-E002-B1 REV. A COPYRIGHT © 2007 LETOURNEAU TECHNOLOGIES, INC.	
DATE	6/21/07
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REVISION DATA	
REV	DATE
0	11/01/07

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MODULE
8 CH DISCRETE INPUT 24VDC
WAGO 750-430



01 02 03 04 05 06 07 08 09 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27

SHEET SIZE: B

CUSTOMER/PROJECT LEWCO 500 TON AC TOP DRIVE HOUSE	
DRAWING TITLE TOP DRIVE CONSOLE CONTROL SCHEMATIC	
JOB NO. 4314	DRAWING NO. 4314
REV. 0	

Letourneau Technologies, Inc. Power Systems
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APPROVALS		DATE		
DRAWN		6/21/07		
APPROVED		11/01/07		

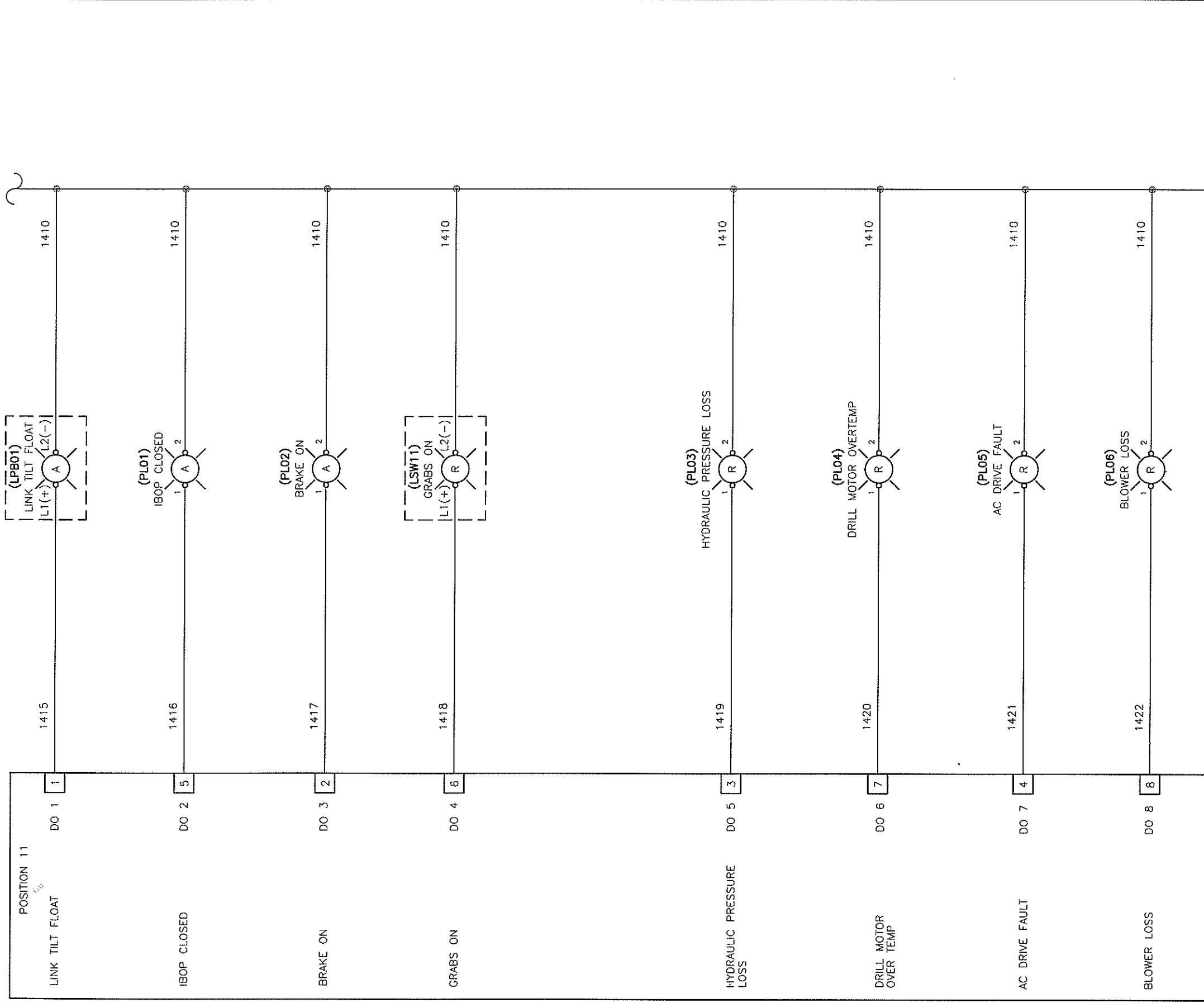
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A B C D E F G H J K L M N P Q R S T U

MODULE
8 CH DIGITAL OUTPUT 24VDC
WAGO 750-530

24V RTN FROM TB-RTN
DWG. E005-01



CONTINUE TO
DWG. E005-08

SHEET SIZE: B	
CUSTOMER/PROJECT: LEWCO 500 TON AC TOP DRIVE HOUSE	
DRAWING TITLE: TOP DRIVE CONSOLE CONTROL SCHEMATIC	
JOB NO. 4314	DRAWING NO. 4314-E005-07
REV. 0	REV. 0

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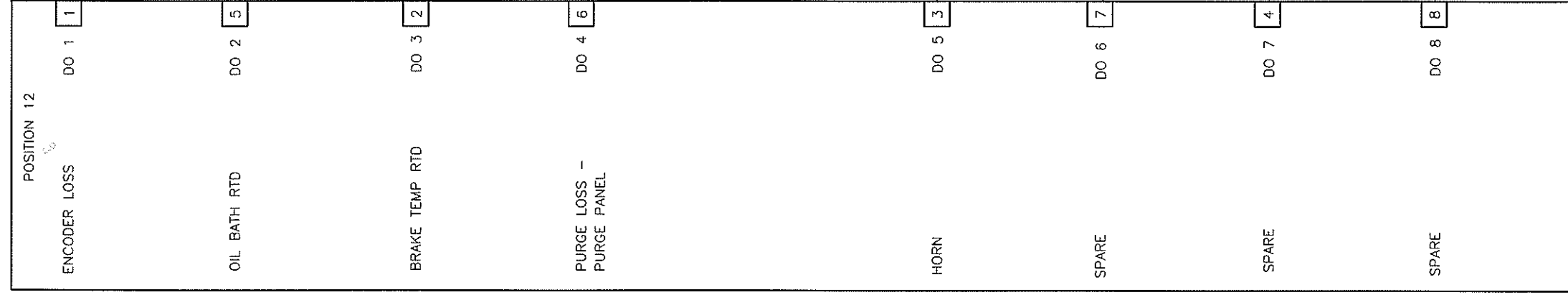
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DRAWN	6/21/07
APPROVED	11/01/07

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REVISION DATA			

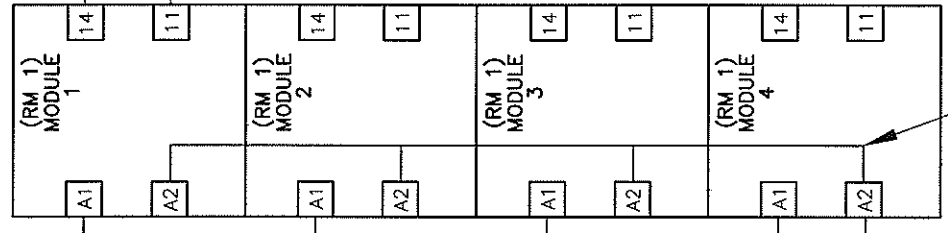
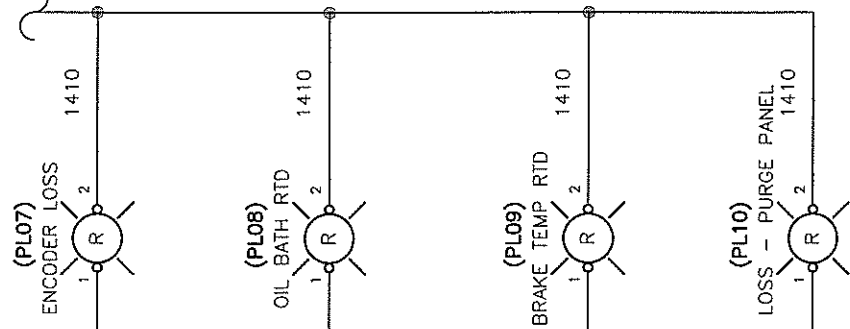
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MODULE
8 CH DIGITAL OUTPUT 24VDC
WAGO 750-530



CONTINUED FROM
DWG. E005-07



TO ALARM HORN
SEE DWG. E005-01

5 TB-RTN
24VDC(RTN)

WAGO 4 PIN PUSH IN TYPE JUMPER OEM PN 04AC1012

SHEET SIZE: B	
CUSTOMER/PROJECT	LEWCO 500 TON AC TOP DRIVE HOUSE
DRAWING TITLE	TOP DRIVE CONSOLE CONTROL SCHEMATIC
JOB NO.	4314
DRAWING NO.	4314
REV	0

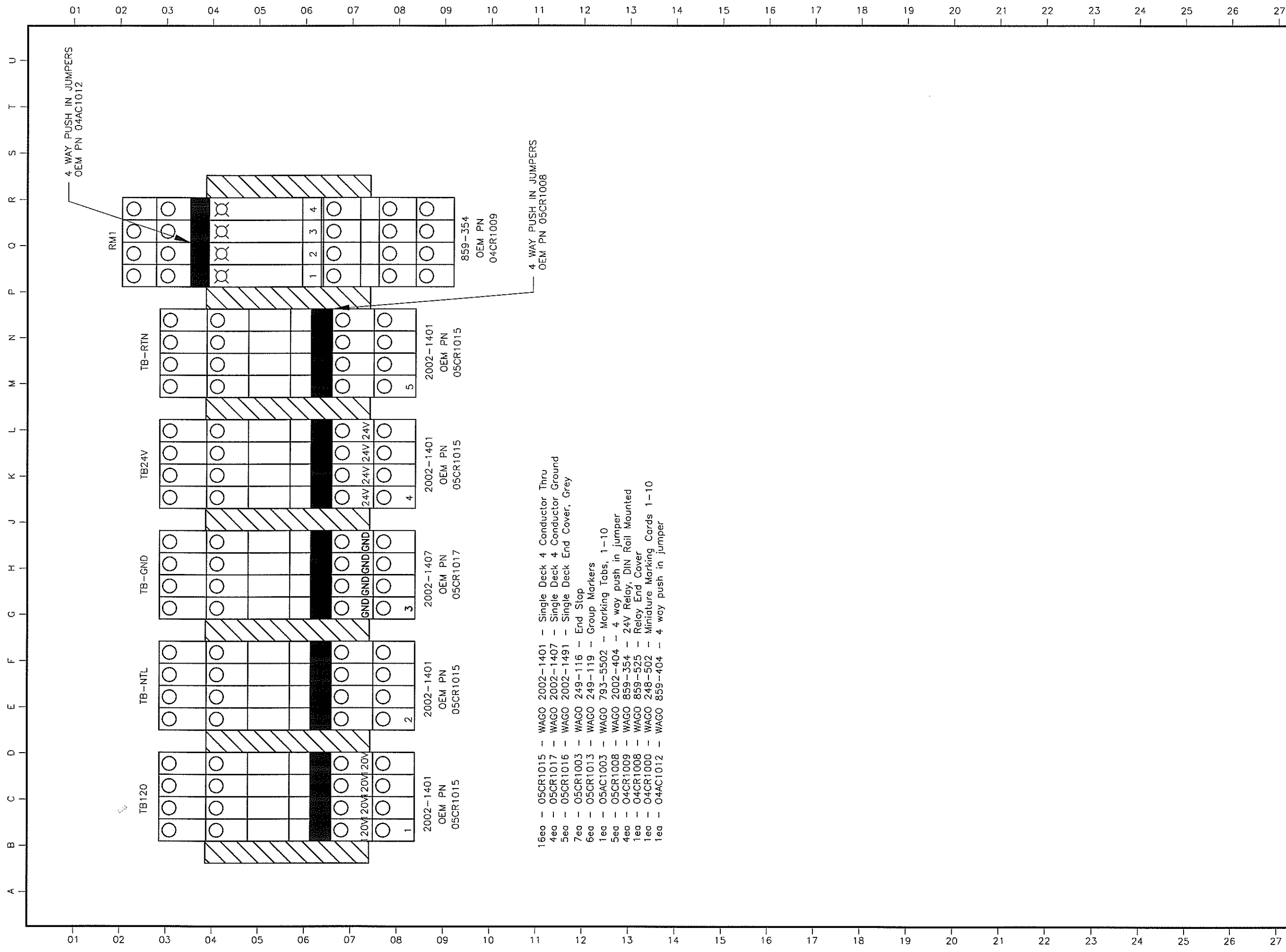
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OEM-STD-E002-B1 REV. A LETOURNEAU TECHNOLOGIES, INC.	

APPROVALS	DATE
DRAWN	6/21/07
APPROVED	11/01/07
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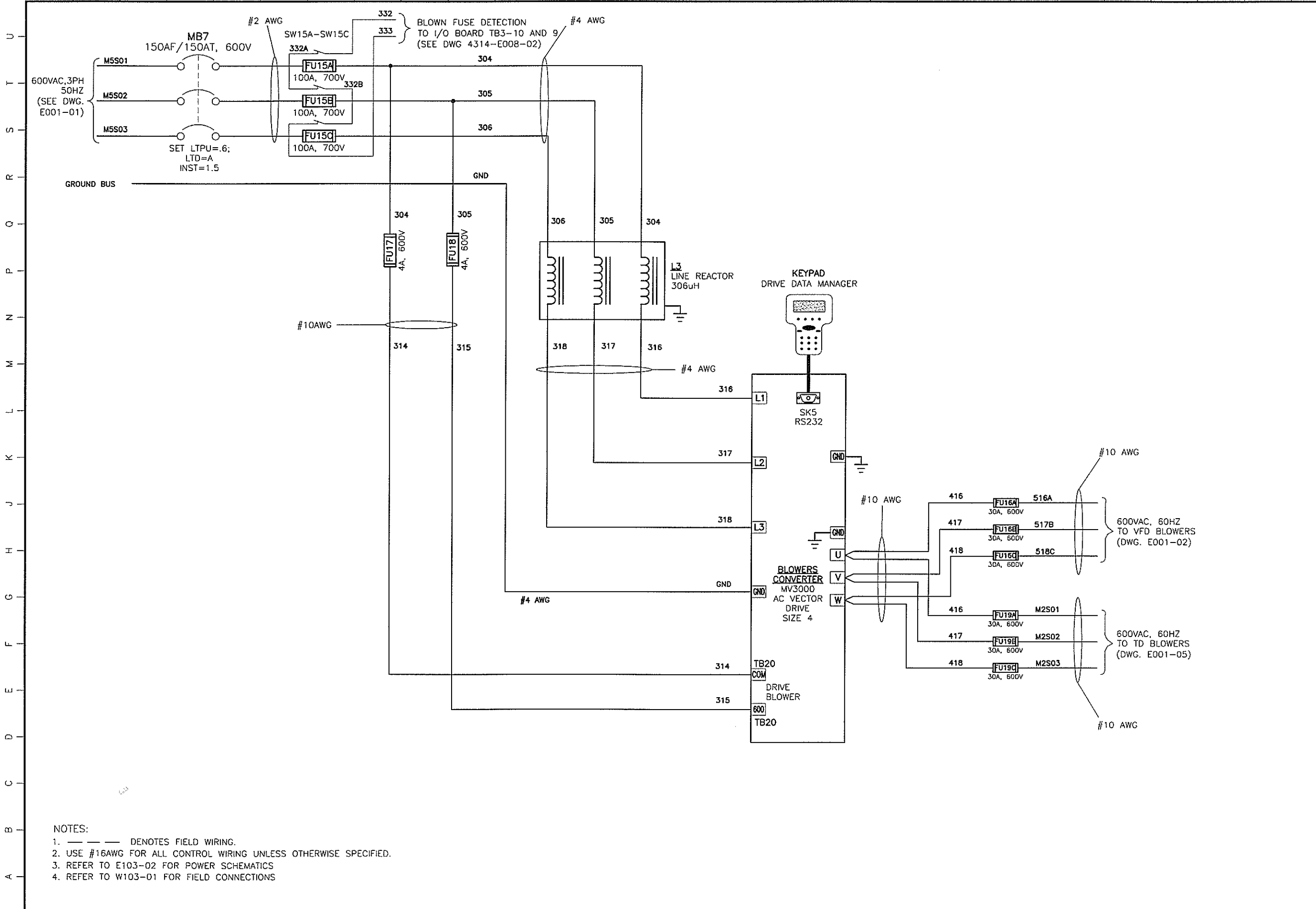


SHEET SIZE: B	
CUSTOMER/PROJECT: LEWCO 500 TON AC TOP DRIVE HOUSE	
DRAWING TITLE: TOP DRIVE CONSOLE CONTROL SCHEMATIC	
JOB NO. 4314	DRAWING NO. 4314
REV. 0	REV. 0

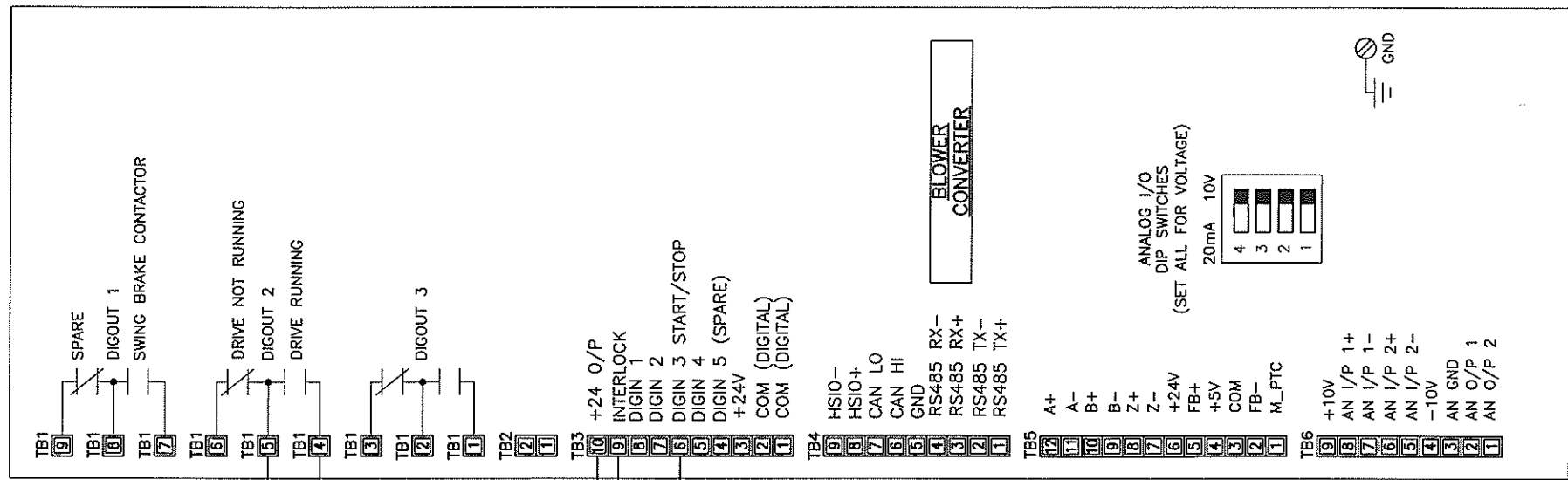
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APPROVALS	DATE
DRAWN	6/21/07
APPROVED	4/01/07
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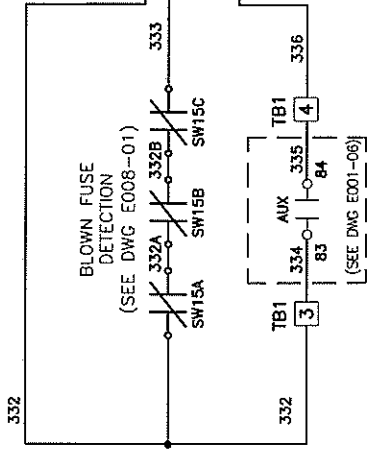
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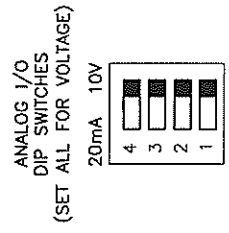
CUSTOMER/PROJECT		LEWCO	
DRAWING TITLE		500 TON AC TOP DRIVE HOUSE	
JOB NO.		4314	
DRAWING NO.		4314-E008-01	
REV.		0	
DATE		10/08/07	
DATE		11/01/07	
APPROVALS		JN	
DRAWN		JN	
AS TESTED/AS SHIPPED		JLD	
DESCRIPTION		REV BY	
REVISION DATA		REV	



TO PLC FIB3-23 & 24
(SEE DWG. 4314-E004-03)



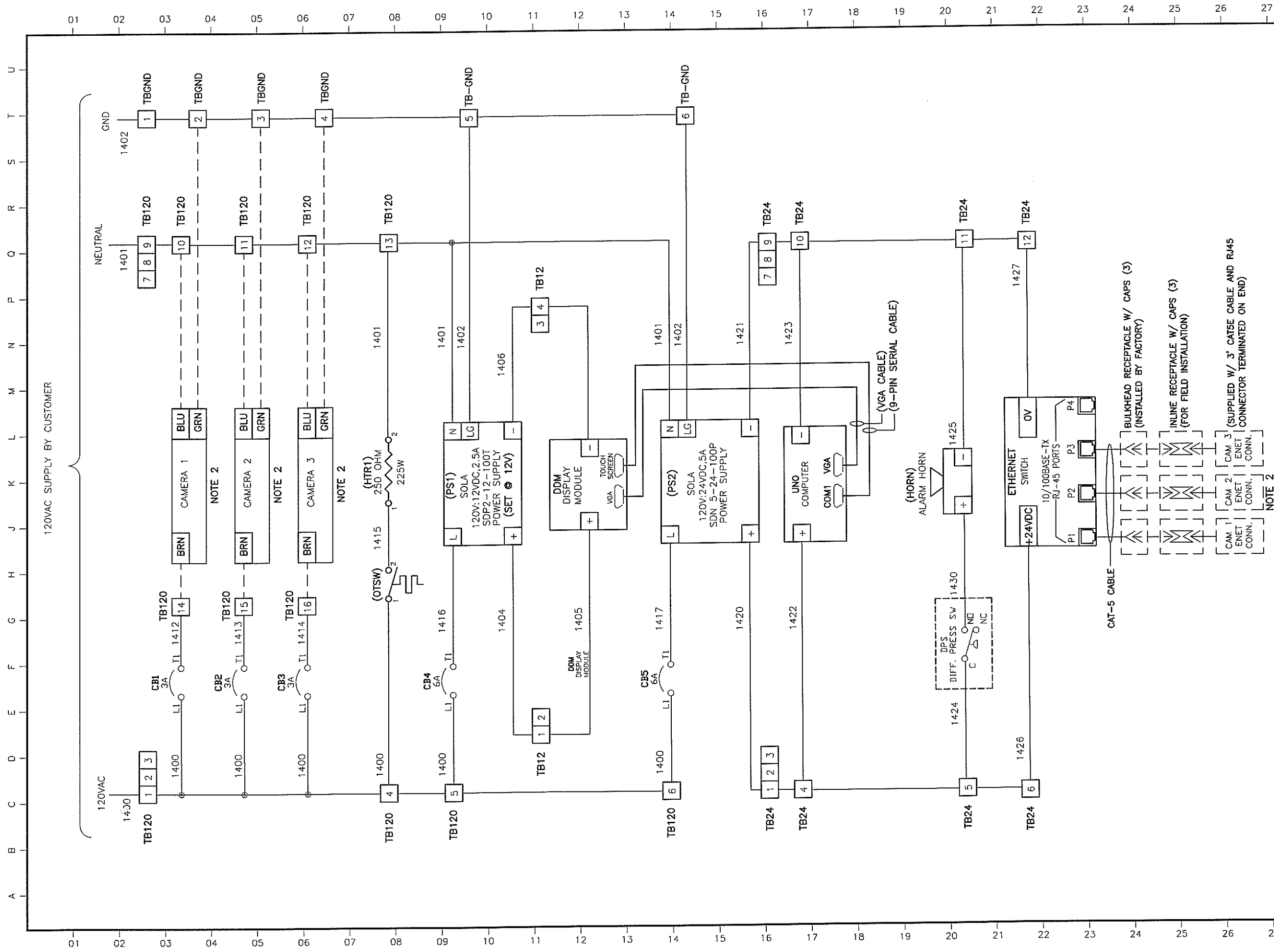
BLOWER CONVERTER



- TB1 9 SPARE
- TB1 8 DIGOUT 1
- TB1 7 SWING BRAKE CONTACTOR
- TB1 6 DRIVE NOT RUNNING
- TB1 5 DIGOUT 2
- TB1 4 DRIVE RUNNING
- TB1 3
- TB1 2 DIGOUT 3
- TB1 1
- TB2 2
- TB2 1
- TB3 10 +24V O/P
- TB3 9 INTERLOCK
- TB3 8 DIGIN 1
- TB3 7 DIGIN 2
- TB3 6 DIGIN 3 START/STOP
- TB3 5 DIGIN 4
- TB3 4 DIGIN 5 (SPARE)
- TB3 3 +24V
- TB3 2 COM (DIGITAL)
- TB3 1 COM (DIGITAL)
- TB4 9 HSIO-
- TB4 8 HSIO+
- TB4 7 CAN LO
- TB4 6 CAN HI
- TB4 5 GND
- TB4 4 RS485 RX-
- TB4 3 RS485 RX+
- TB4 2 RS485 TX-
- TB4 1 RS485 TX+
- TB5 17 A+
- TB5 16 A-
- TB5 15 B+
- TB5 14 B-
- TB5 13 Z+
- TB5 12 Z-
- TB5 11 +24V
- TB5 10 FB+
- TB5 9 +5V
- TB5 8 COM
- TB5 7 FB-
- TB5 6 M_PTC
- TB5 5 +10V
- TB5 4 AN I/P 1+
- TB5 3 AN I/P 1-
- TB5 2 AN I/P 2+
- TB5 1 AN I/P 2-
- TB5 10V
- TB5 9 AN GND
- TB5 8 AN O/P 1
- TB5 7 AN O/P 2
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- TB5 5
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- TB5 1
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- TB6 7
- TB6 6
- TB6 5
- TB6 4
- TB6 3
- TB6 2
- TB6 1

- NOTES:
- DENOTES FIELD WIRING.
 - USE #16AWG FOR ALL CONTROL WIRING UNLESS OTHERWISE SPECIFIED.
 - REFER TO E103-01 FOR POWER SCHEMATICS
 - REFER TO W103-01 FOR FIELD CONNECTIONS

		Letourneau Technologies, Inc. Power Systems 6401 W. Sam Houston Pkwy, N. Houston, TX 77041 Phone: 713-983-4700 Fax: 713-983-4701 www.letourneautech.com/power		CUSTOMER/PROJECT LEWCO 500 TON AC TOP DRIVE HOUSE	
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APPROVALS DRAWN: JN APPROVED: <i>[Signature]</i>		DATE 10/08/07 11/01/07		JOB NO. 4314	
AS TESTED/AS SHIPPED JLD DESCRIPTION REVISION DATA		REV DATE		DRAWING NO. 4314-E008-02	
0 11/01/07		1 11/01/07		REV. 0	



NOTES:
 1. - - - - - DENOTES FIELD WIRING BY OTHERS.
 2. INSTALLATION BY OTHERS.

REV	DATE	DESCRIPTION	BY	REV
0	11/20/07	AS TESTED/AS SHIPPED	JUN	
		REVISION DATA		

APPROVALS	DATE
DRAWN JUN	11/21/07
APPROVED <i>[Signature]</i>	11/29/07

CUSTOMER/PROJECT	LEWCO
500 TON AC TOP DRIVE HOUSE	
DRAWING TITLE	TOUCH SCREEN & CAMERA CONTROL SCHEMATIC
JOB NO.	4314
DRAWING NO.	4314-E100-01
REV.	0

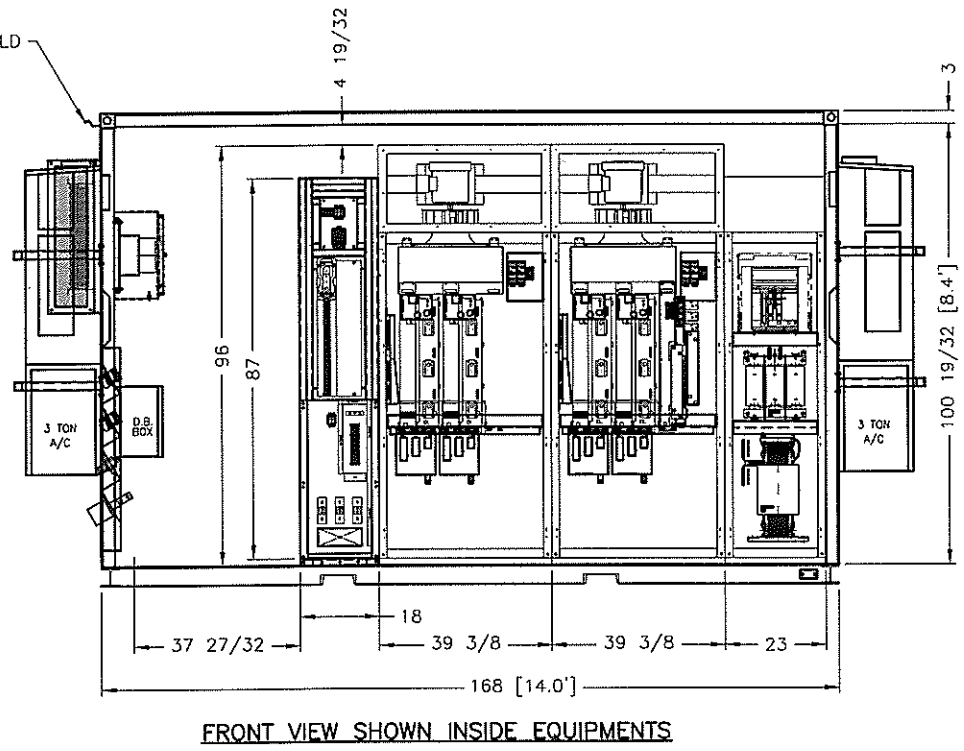
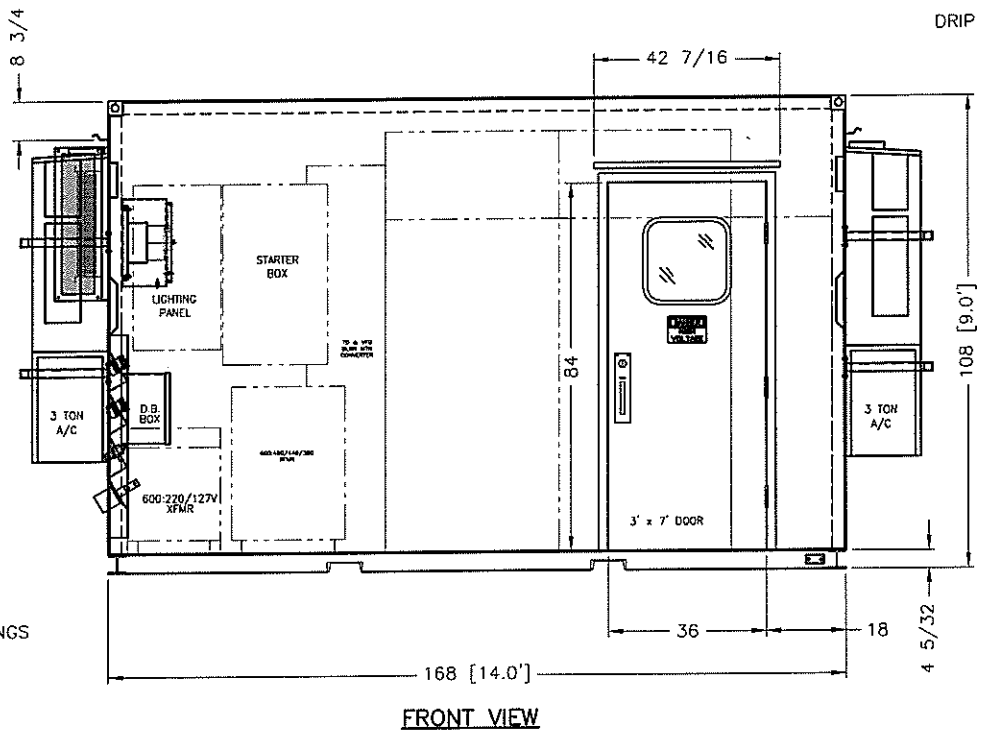
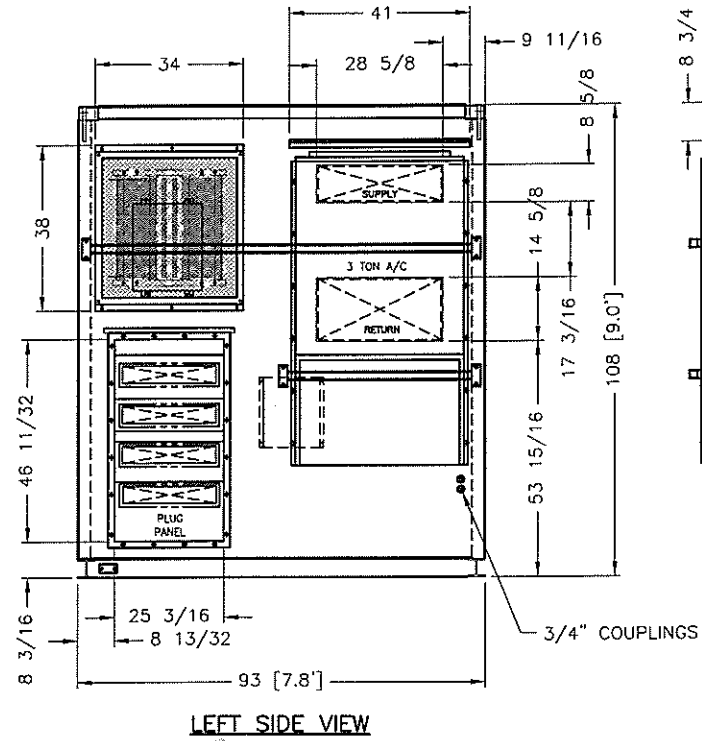
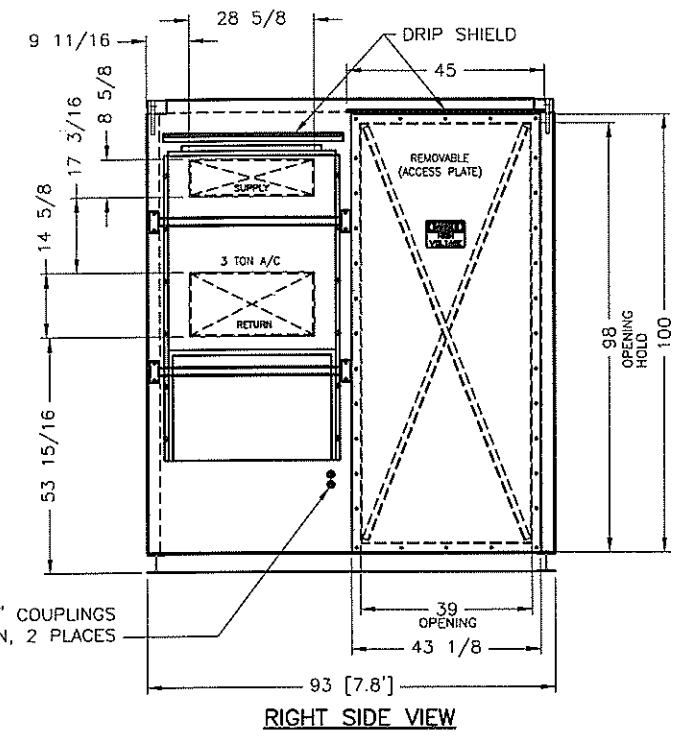
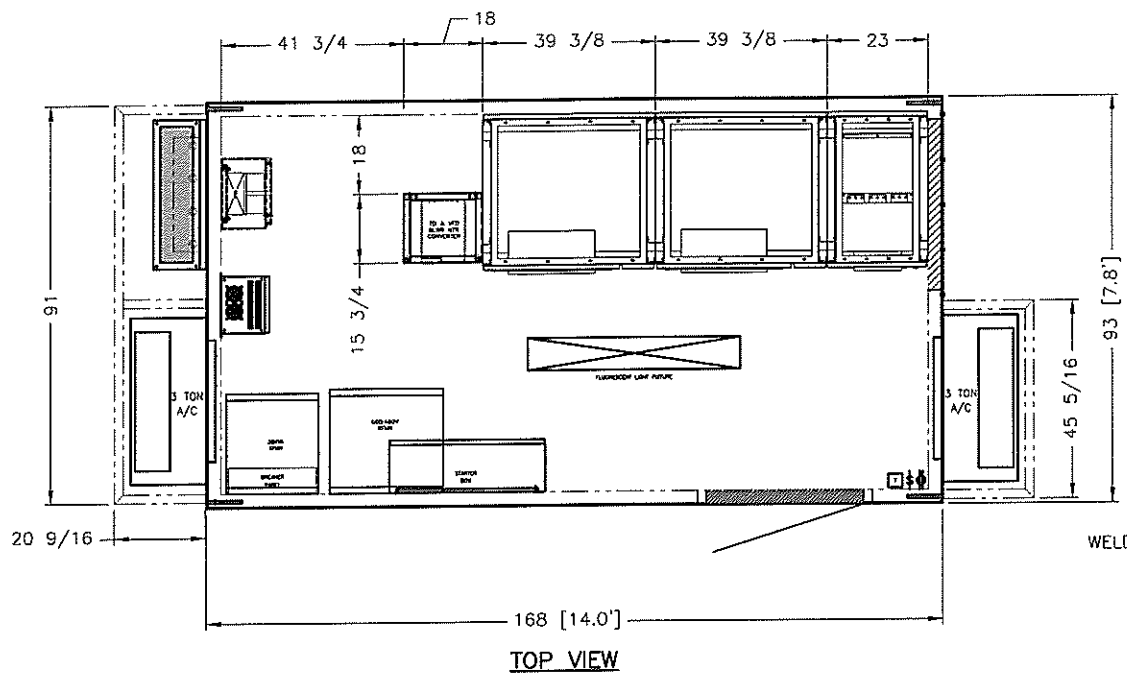
Letourneau Technologies, Inc. Power Systems
 6401 W. 50m Houston Pkwy. N. Houston, TX 77041
 Phone: 713-983-4700 Fax: 713-983-4701
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PAINT SPECIFICATION:

1. 1ST COAT - APPLY INTERZINC 52 PRIMEGREEN INSIDE AND OUT.
2. 2ND COAT - APPLY INTERGUARD 345 INTERMEDIATE DOVE GRAY INSIDE AND OUT AS WELL.
3. THE LINERS AND INSULATIONS ARE THEN INSTALLED INSIDE THE HOUSE.
4. AFTER THE LINERS ARE INSTALLED, THEY ARE PREPED AND WIPED DOWN W/THINNER. AND 3RD COAT APPLIED TO THE LINERS, A COAT OF SHERWIN WILLIAMS INDUSTRIAL WASH PRIMER, ALONG WITH IT'S REDUCER AND CATALYST.
5. 4TH & FINAL COAT - APPLY INTERNATIONAL INTHERTHANE 990 WHITE INSIDE AND OUTSIDE AS WELL.

NOTE:

- 1- ALL WELDS MUST BE SEAM WELDED ALL AROUND WITH FLUX CORE AND FULL PENETRATION.
- 2- ALL WELDS OF MAIN STRUCTURE ARE FILLET STRINGERS.

TOLERANCES
UNLESS OTHERWISE SPECIFIED

.XXX	= ±.005
.XX	= ±.015
.X	= ±.06

FRACTIONS

LIGHT FAB	= ±1/32
HEAVY FAB	= ±1/8

CORNERS

INSIDE CORNERS	= .03 RAD.
OUTSIDE CORNERS	= .06 X 45°

FINISH ✓

SHEET SIZE: D

CUSTOMER/PROJECT: BKE (EURASIA) 500T TD BUILDING #2

DRAWING TITLE: NEW TOP DRIVE BUILDING ELEVATION VIEW ASSEMBLY

JOB NO.: 4314

DRAWING NO.: 4314-L000-01

REV.: 0

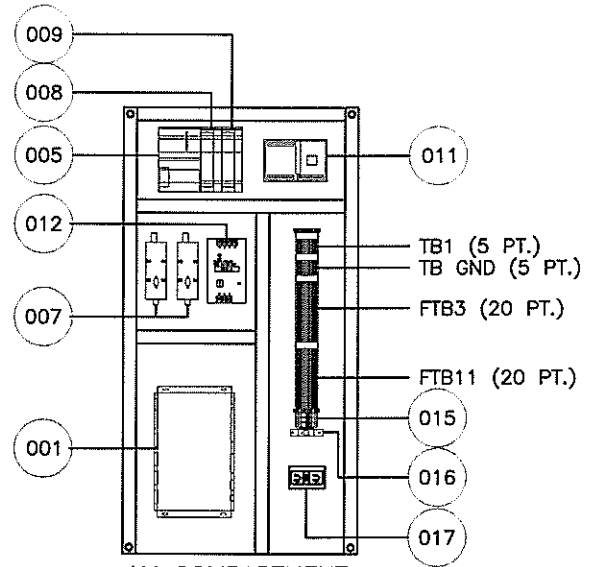
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Phone: 713-983-4700 Fax: 713-983-4701
www.letourneaultechnologies.com/power

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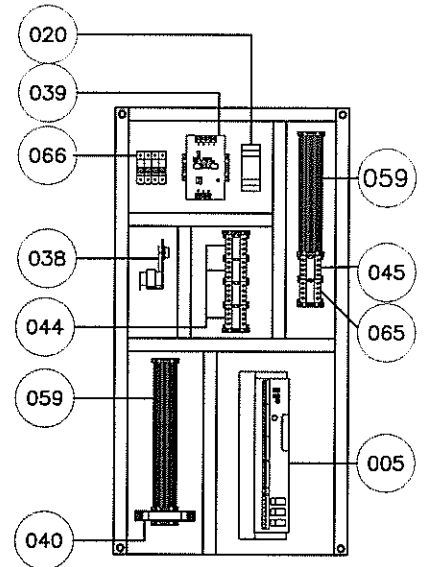
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05/14/07	K. TRAN	11/01/07

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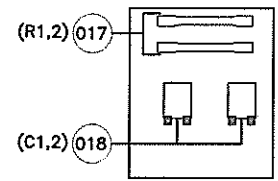
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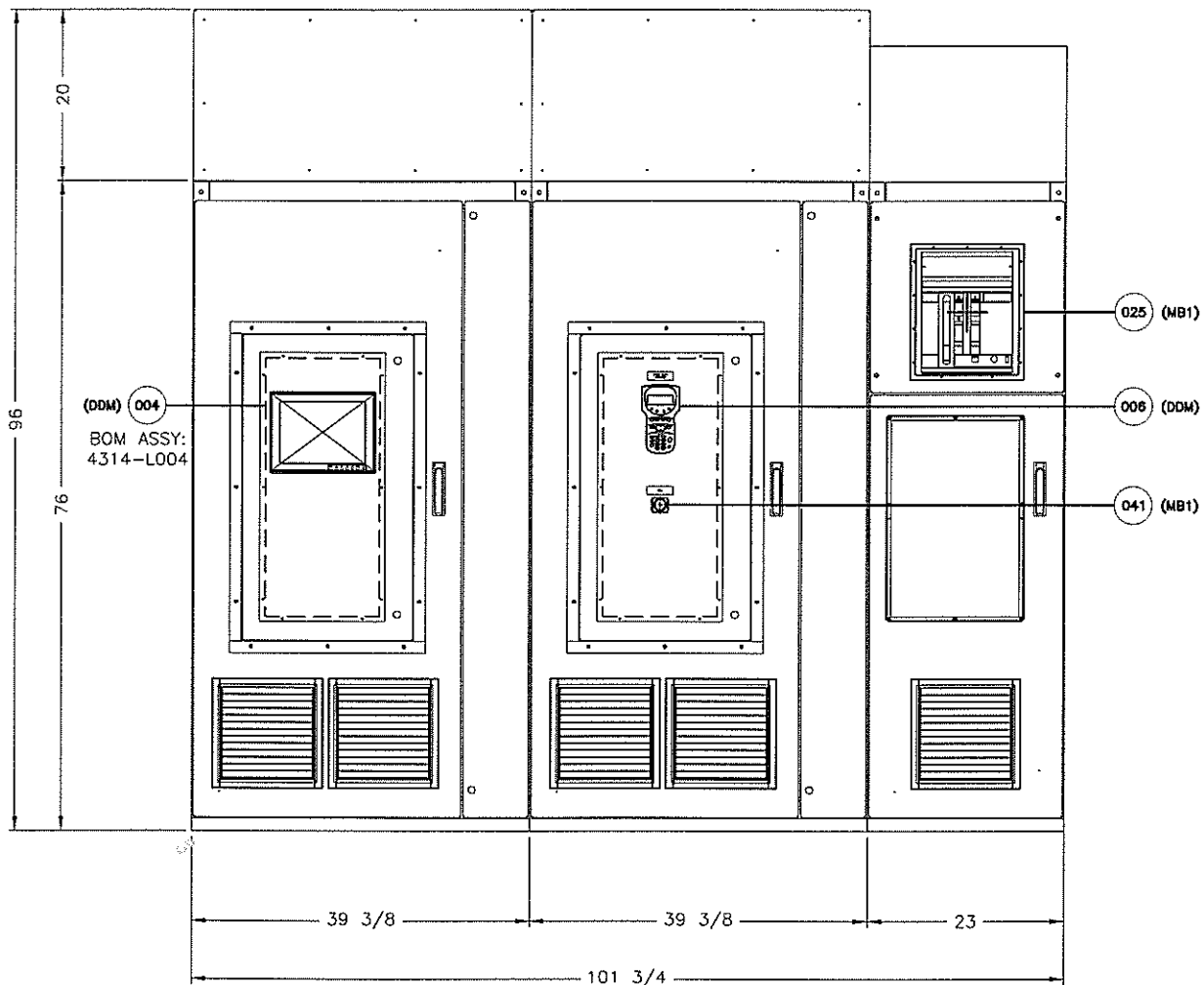
LV COMPARTMENT
BACKPAN LAYOUT
CUBICLE 1/SCALE: 1.5X
BOM ASSY: 4314-L004



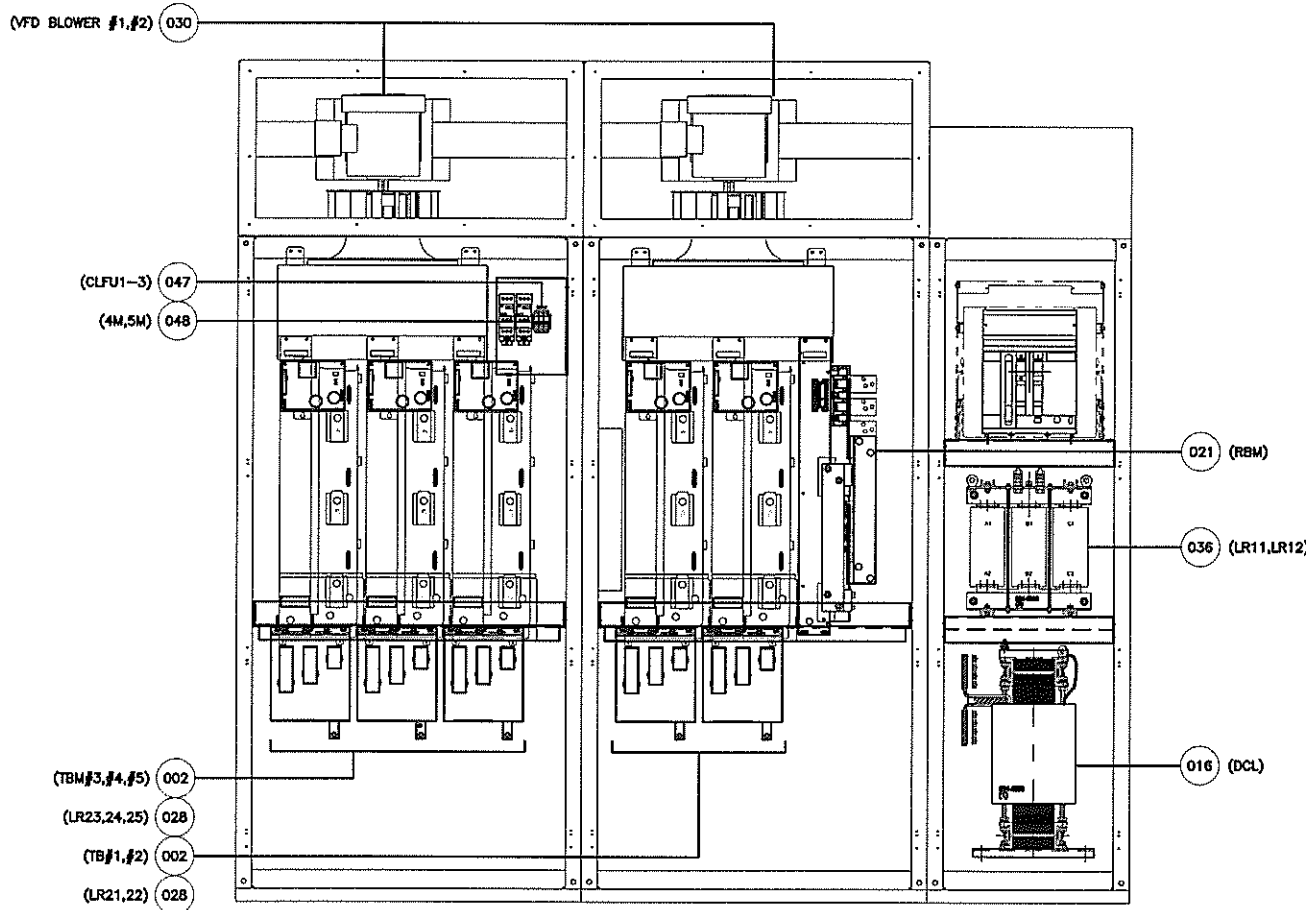
LV COMPARTMENT
BACKPAN LAYOUT
CUBICLE 2/SCALE: 1.5X



SECTION "A-A"
(GLASTIC PLATE MOUNTED)



FRONT VIEW



FRONT VIEW
(DOORS REMOVED)

TOLERANCES
UNLESS OTHERWISE SPECIFIED
.XXX = ±.005
.XX = ±.015
.X = ±.06
FRACTIONS
LIGHT FAB = ±1/32
HEAVY FAB = ±1/8
INSIDE CORNERS = .03 RAD.
OUTSIDE CORNERS = .06 X 45°
FINISH 125

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6401 W. Sam Houston Pkwy, N. Houston, TX 77041
Phone: 713-983-4700 Fax: 713-983-4701
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CUSTOMER/PROJECT LTI DRILLING SYSTEMS
HOUSTON, TX 77041

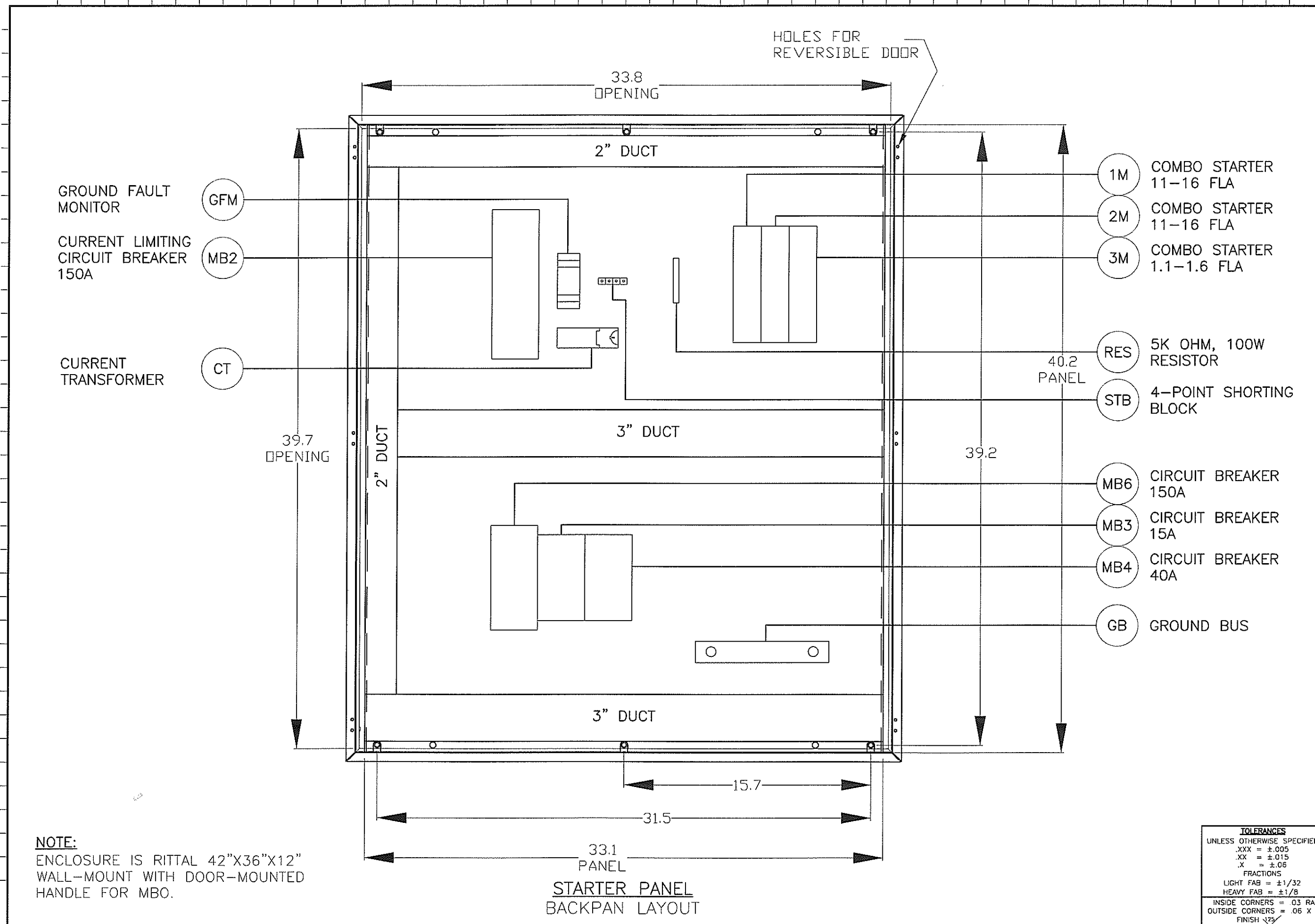
DRAWING TITLE NEW TOP DRIVE BUILDING VFD LAYOUT & ASSEMBLY DRAWING

JOB NO. 4314
DRAWING NO. 4314-L001-01
REV 0

DATE 05/14/07
APPROVALS K. TRAN
REVISION DATA

REV	DATE	DESCRIPTION	REV BY
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NOTE:
ENCLOSURE IS RITTAL 42"X36"X12"
WALL-MOUNT WITH DOOR-MOUNTED
HANDLE FOR MBO.

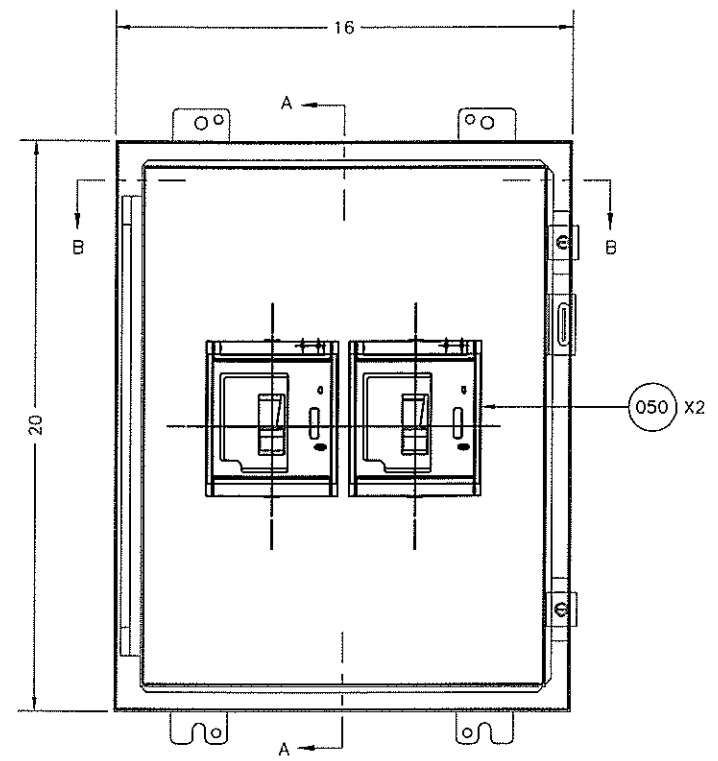
**STARTER PANEL
BACKPAN LAYOUT**

TOLERANCES
UNLESS OTHERWISE SPECIFIED
.XXX = ±.005
.XX = ±.015
.X = ±.06
FRACTIONS
LIGHT FAB = ±1/32
HEAVY FAB = ±1/8
INSIDE CORNERS = .03 RAD.
OUTSIDE CORNERS = .06 X 45°
FINISH ✓

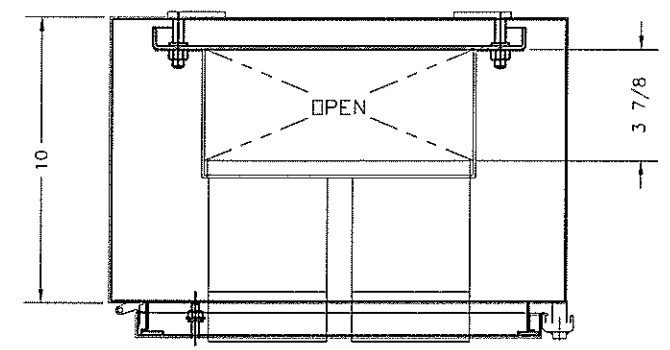
- 1M COMBO STARTER 11-16 FLA
- 2M COMBO STARTER 11-16 FLA
- 3M COMBO STARTER 1.1-1.6 FLA
- RES 5K OHM, 100W RESISTOR
- STB 4-POINT SHORTING BLOCK
- MB6 CIRCUIT BREAKER 150A
- MB3 CIRCUIT BREAKER 15A
- MB4 CIRCUIT BREAKER 40A
- GB GROUND BUS

SHEET SIZE: D	
CUSTOMER/PROJECT	LeTourneau Technologies Inc. HOUSTON, TX 77041
DRAWING TITLE	STARTER PANEL BACKPAN LAYOUT ASSEMBLY DRAWING
JOB NO.	4314
DRAWING NO.	4314-L002-01
REV	0
<p>LeTourneau Technologies, Inc. Power Systems 6401 W. Sam Houston Pkwy, N. Houston, TX 77041 Phone: 713-983-4700 Fax: 713-983-4701 www.letourneautech.com/power</p> <p><small>THIS DRAWING/INFORMATION IS THE PROPERTY OF LETOURNEAU TECHNOLOGIES, INC. AND IS LOANED TO YOU UNDER THE CONDITION THAT IT IS NOT TO BE REPRODUCED OR INCORPORATED IN WHOLE OR IN PART AND IS TO BE RETURNED UPON REQUEST. COPYRIGHT © 2007 LETOURNEAU TECHNOLOGIES, INC. DES-STD-E002-01 REV A</small></p>	
DATE	10/25/07
APPROVALS	JN
DRAWN	JN
APPROVED	<i>[Signature]</i>
AS TESTED/AS SHIPPED	JN
DESCRIPTION	
REVISION DATA	
REV	DATE
0	11/01/07

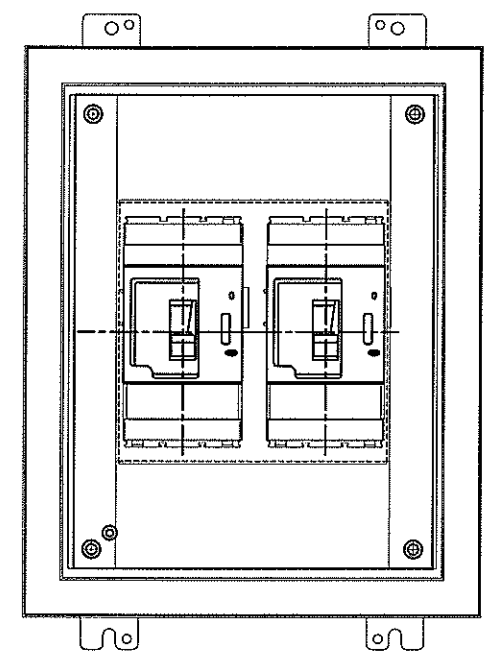
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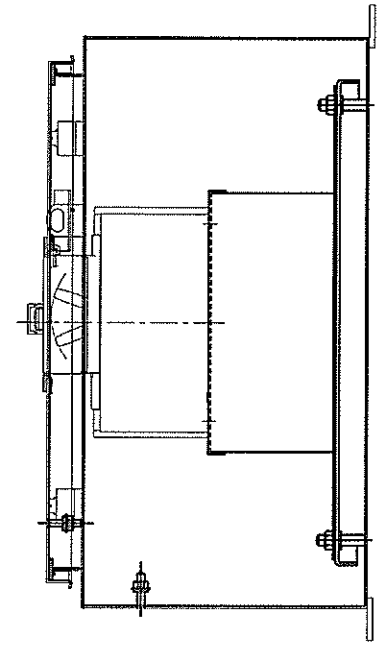
FRONT VIEW
(W/DOOR)



SECTION B-B



FRONT VIEW
(W/O DOOR)



SECTION A-A

ENCLOSURE TO BE
OEM PART# 03SM0093

TOLERANCES
UNLESS OTHERWISE SPECIFIED

.XXX	= ±.005
.XX	= ±.015
.X	= ±.06

FRACTIONS

LIGHT FAB	= ±1/32
HEAVY FAB	= ±1/8

INSIDE CORNERS = .03 RAD.
OUTSIDE CORNERS = .06 X 45°
FINISH $\sqrt{25}$

SHEET SIZE: D	
CUSTOMER/PROJECT	EURASIA
DRAWING TITLE	500 TON AC TOP DRIVE HOUSE LOW VOLTAGE COMPARTMENT T2 & MB2 FEEDERS ENCLOSURE LAYOUT
JOB NO.	4314
DRAWING NO.	4314-L002-02
REV.	0

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DATE	APPROVALS
10/22/07	C. Alvarado
11/01/07	<i>CA</i>

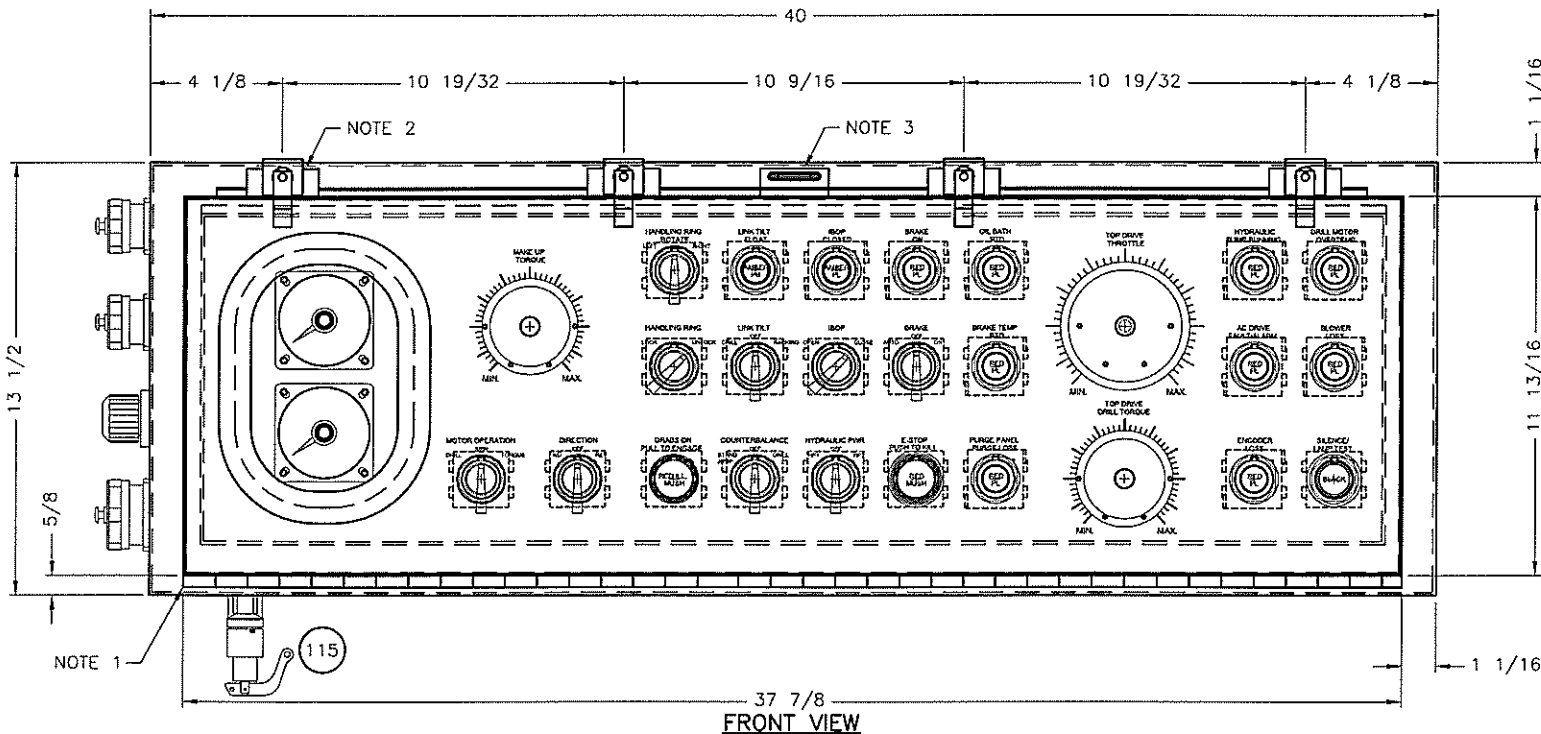
REV	DATE	DESCRIPTION	REV BY
0	11/01/07	AS TESTED/AS SHIPPED	CA

NOTES:

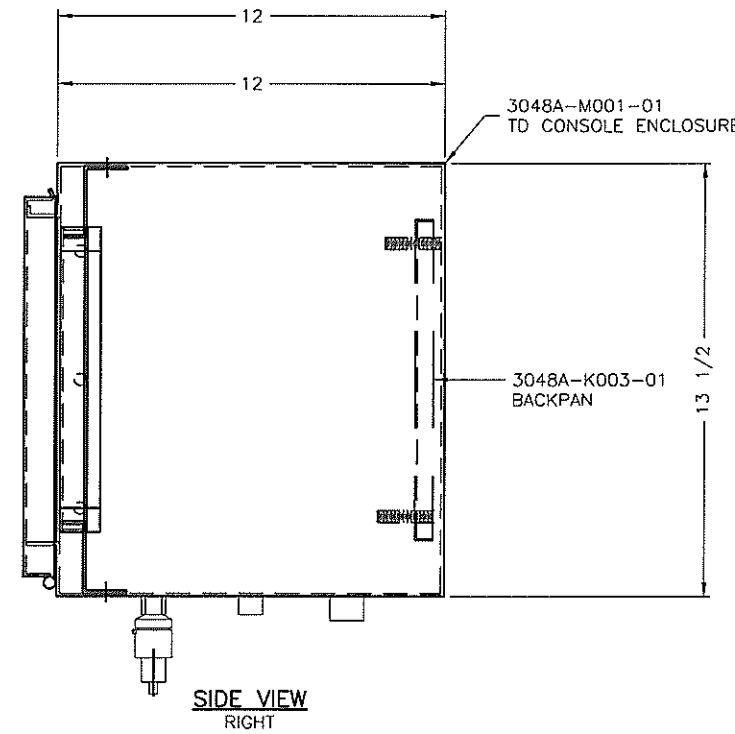
1. CONSOLE DOOR TO HAVE A PIANO HINGE W/ A 3/8" DIAMETER BARREL. QEM P/N: 50HN0007.
2. CONSOLE DOOR TO BE SECURED SHUT WITH SS NEMA QUICK RELEASE CLIPS. QEM P/N: 50LA0077.
3. CONSOLE DOOR TO HAVE A PADLOCKABLE HASP FOR LIMITING ACCESS AS NEEDED.
4. CONSOLE DOOR TO HAVE 1/4" X 1" GASKET ON ALL INSIDE EDGES EXCEPT THE HINGE SIDE. QEM P/N: 50GA0002.
5. CONSOLE DOOR TO HAVE 1/4" X 2" GASKET ON THE INSIDE EDGE OF THE HINGE SIDE. QEM P/N: 50GA0004.

BOM ASSEMBL NO.:
4314-L005 TD CONSOLE FOR 500T TD HOUSE

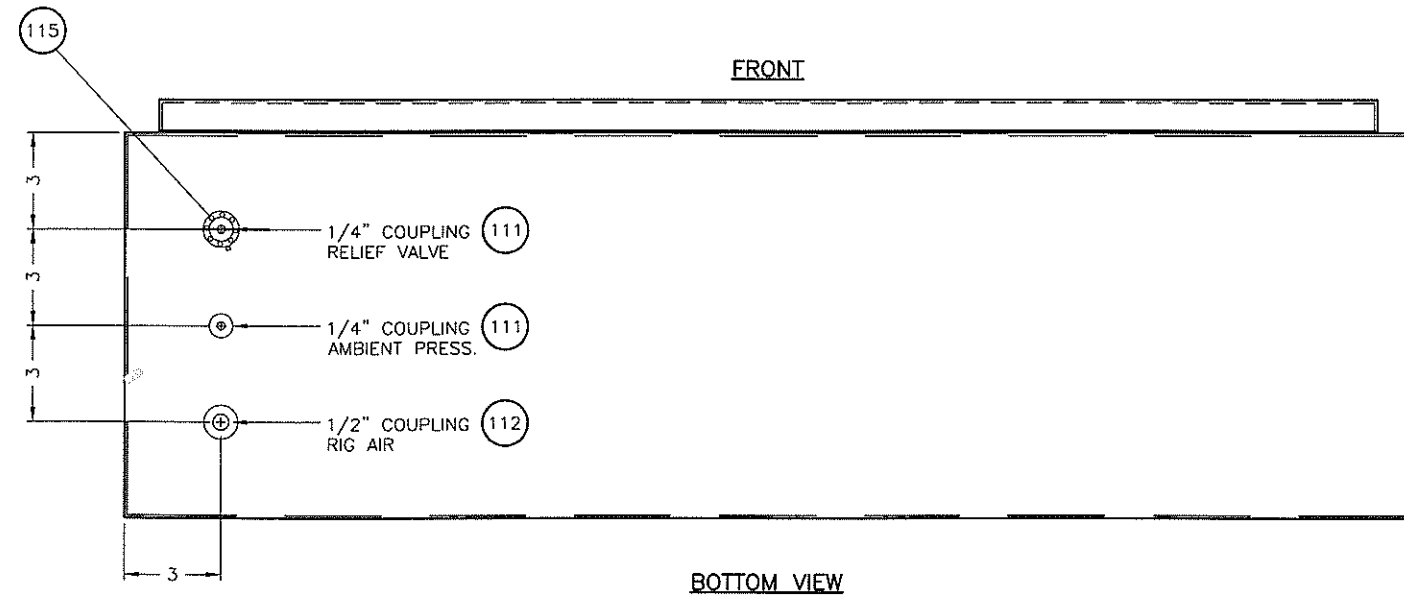
REFERENCE DRAWINGS:
4314-L005-02 FRONT DOOR LAYOUT
4314-L005-03 BACKPAN & SWING PANEL LAYOUT
OEM3048-M001-01 TD CONSOLE ENCL.



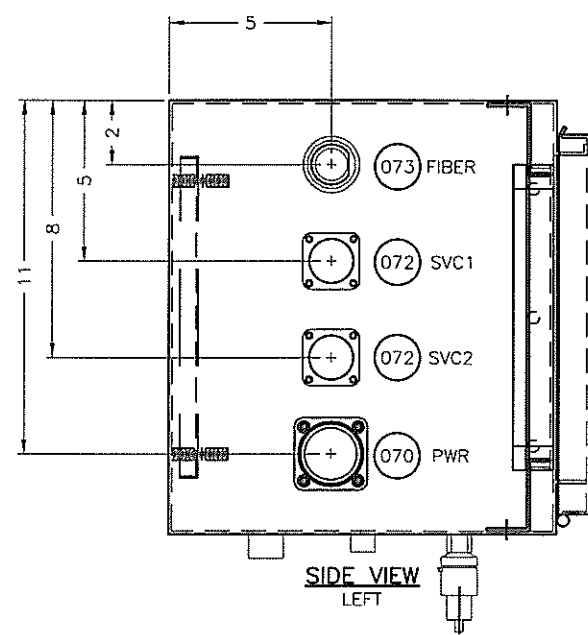
FRONT VIEW



SIDE VIEW RIGHT



BOTTOM VIEW



SIDE VIEW LEFT

TOLERANCES
UNLESS OTHERWISE SPECIFIED

.XXX	= ±.005
.XX	= ±.015
.X	= ±.06

FRACTIONS
LIGHT FAB = ±1/32
HEAVY FAB = ±1/8

INSIDE CORNERS = .03 RAD.
OUTSIDE CORNERS = .06 X 45°
FINISH ✓

SHEET SIZE: D	
CUSTOMER/PROJECT	LTI DRILLING SYSTEMS HOUSTON, TEXAS 77041
DRAWING TITLE	TOP DRIVE CONSOLE LAYOUT DRAWING
JOB NO.	4314
DRAWING NO.	4314-L005-01
REV	0
DATE	07/17/07
APPROVALS	M. DEHOYOS
DRAWN	
AS TESTED/AS SHIPPED	
DESCRIPTION	
REVISION DATA	
REV	DATE
0	11/01/07

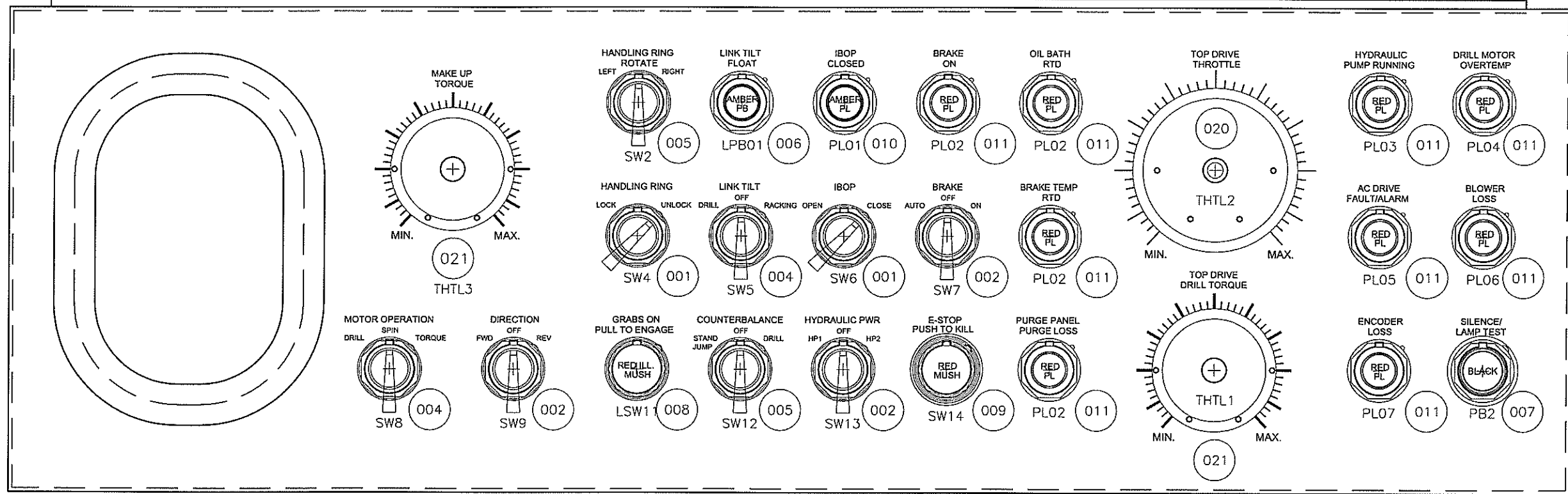
Letourneau Technologies, Inc. Power Systems
 6401 W. Sam Houston Pkwy. N. Houston, TX 77041
 Phone: 713-983-4700 Fax: 713-983-4701
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BOM ASSEMBLY NO.:
4314-L005 TD CONSOLE FOR 500T TD HOUSE

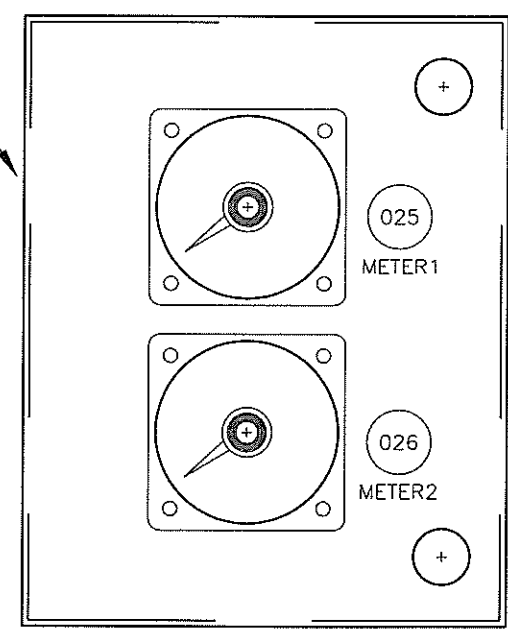
REFERENCE DRAWINGS:
4314-L005-01 LAYOUT DRAWING
OEM3048A-K004-01 TD CONS. ENCL.-SWING PANEL
OEM3048A-K006-01 TD CONS. ENCL.-FRONT DOOR

OEM3048A-K006



FRONT DOOR LAYOUT

OEM3048A-K004



SWING PANEL LAYOUT

TOLERANCES
UNLESS OTHERWISE SPECIFIED
.XXX = ±.005
.XX = ±.015
.X = ±.06
FRACTIONS
LIGHT FAB = ±1/32
HEAVY FAB = ±1/8
INSIDE CORNERS = .03 RAD.
OUTSIDE CORNERS = .06 X 45°
FINISH 125

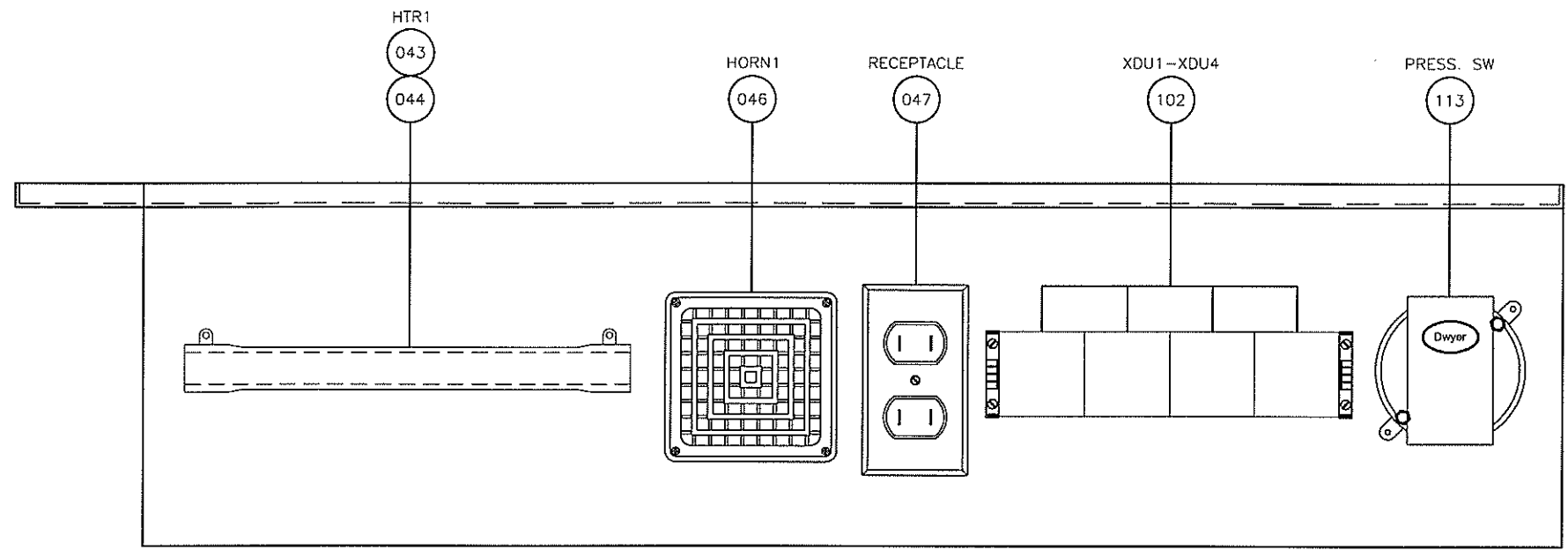
SHEET SIZE: D	
CUSTOMER/PROJECT	LTI DRILLING SYSTEMS HOUSTON, TEXAS 77041
DRAWING TITLE	TOP DRIVE CONSOLE LAYOUT DRAWING
JOB NO.	4314
DRAWING NO.	4314-L005-02
REV.	0
<p>Letourneau Technologies, Inc. Power Systems 6401 W. Sam Houston Pkwy. N. Houston, TX 77041 Phone: 713-983-4700 Fax: 713-983-4701 www.letourneautech.com/power</p> <p><small>THIS DRAWING/INFORMATION IS THE PROPERTY OF LETOURNEAU TECHNOLOGIES, INC. NO PART OF THIS DRAWING/INFORMATION IS TO BE REPRODUCED OR COPIED IN WHOLE OR IN PART AND IS TO BE RETURNED UPON REQUEST. COPYRIGHT © 2007 LETOURNEAU TECHNOLOGIES, INC. OEM-STD-E002-01 REV A</small></p>	
DATE	07/17/07
APPROVALS	M. DEHOYOS
DATE	11/01/07
AS TESTED/AS SHIPPED	
DESCRIPTION	
REVISION DATA	
REV	DATE
0	11/01/07
MD	
REV BY	

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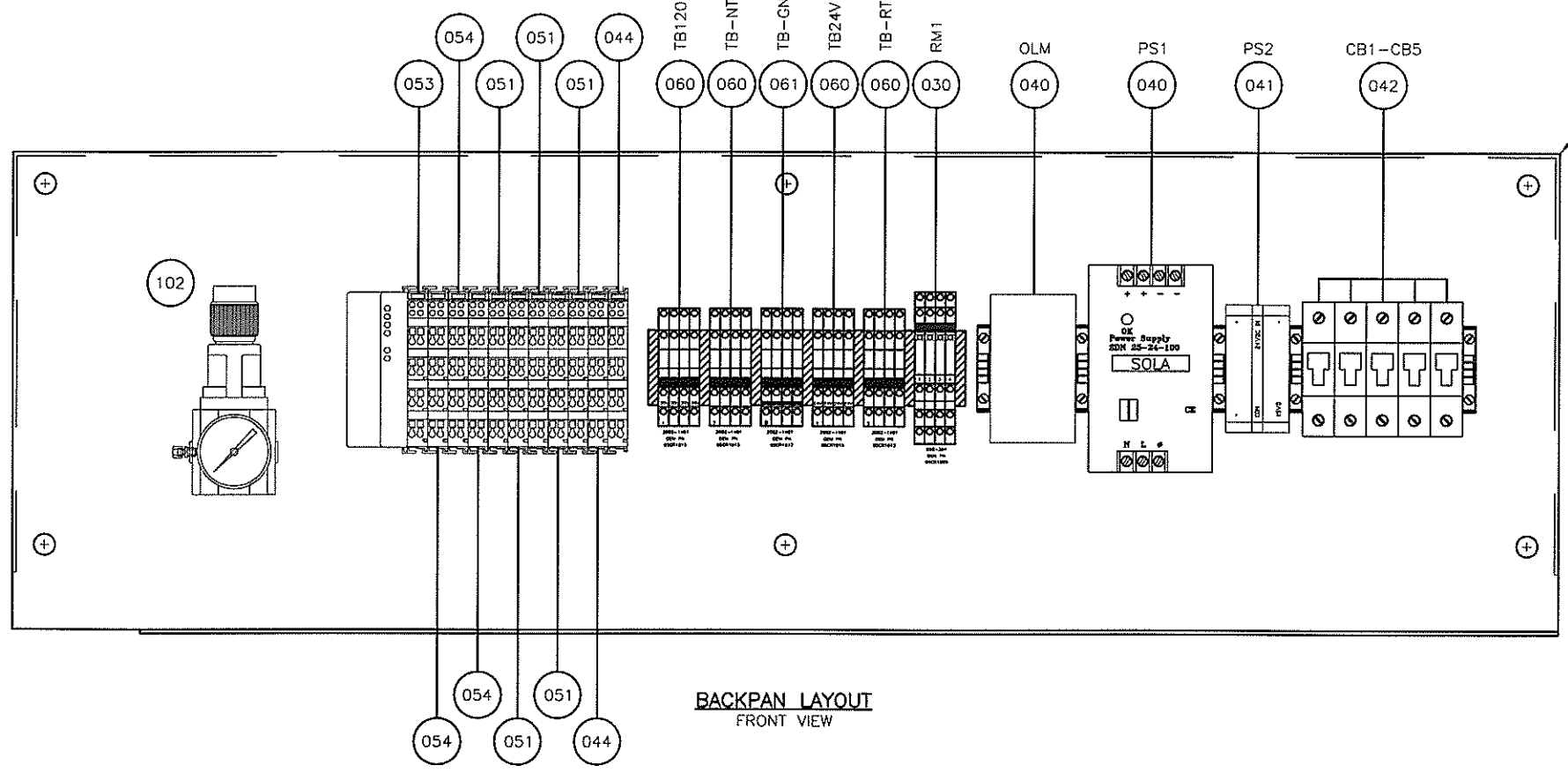
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BOM ASSEMBLY NO.:
4314-L005 TD CONSOLE FOR 500T TD HOUSE

REFERENCE DRAWINGS:
4314-L005-01 LAYOUT DRAWING
4314-L005-04 PURGE SYSTEM LAYOUT
OEM3048A-K003-01 TD CONS. ENCL.-BACKPAN



BACKPAN LAYOUT
TOP VIEW



BACKPAN LAYOUT
FRONT VIEW

OEM3048A-K003

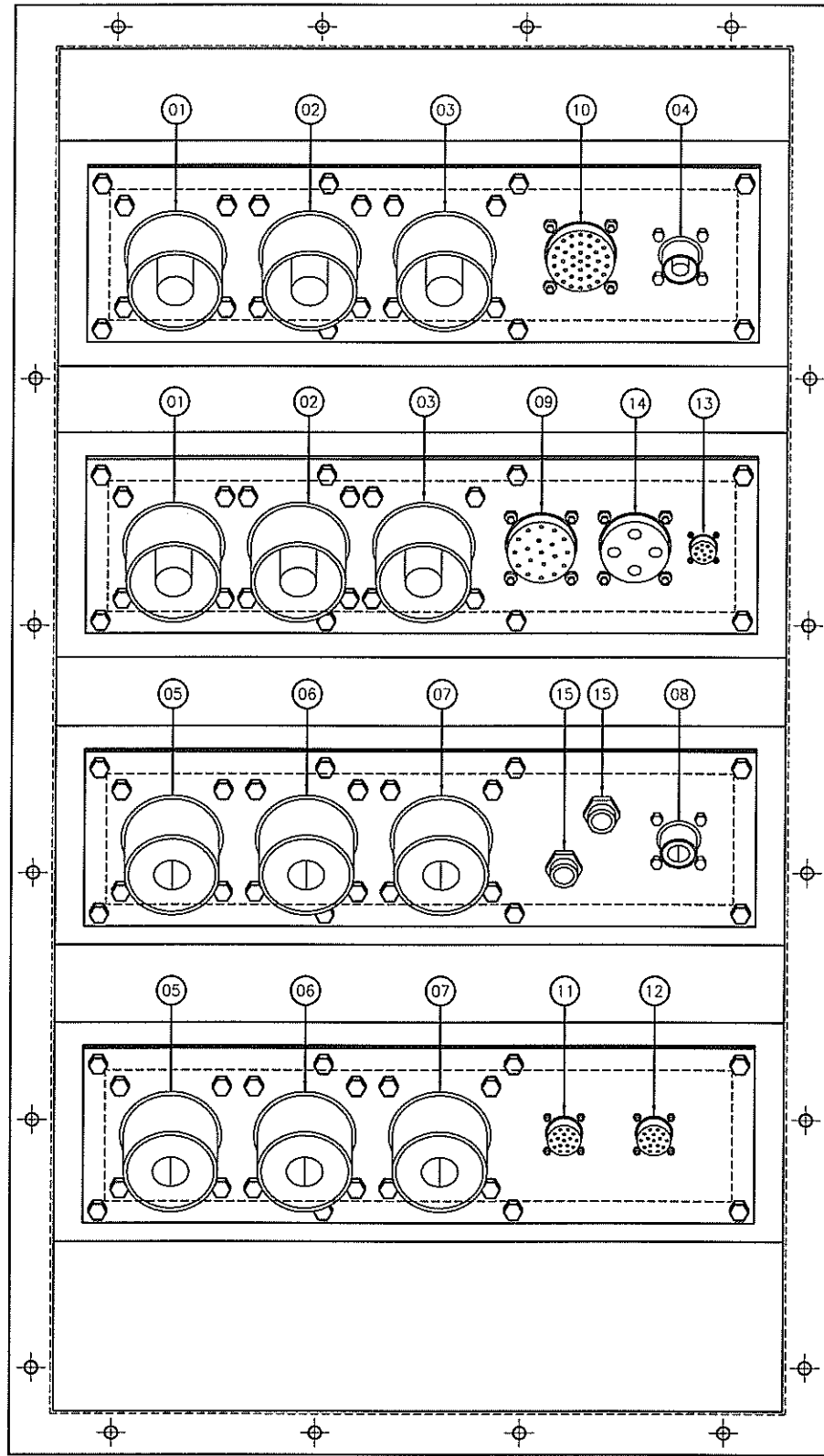
SHEET SIZE: D	
CUSTOMER/PROJECT	LTI DRILLING SYSTEMS HOUSTON, TEXAS 77041
DRAWING TITLE	TOP DRIVE CONSOLE LAYOUT DRAWING BACKPAN LAYOUT
JOB NO.	4314
DRAWING NO.	4314-L005-03
REV.	0

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DATE	07/17/07
APPROVALS	M. DEHOYOS
DRAWN	<i>[Signature]</i>
DATE	11/01/07
APPROVED	<i>[Signature]</i>
AS TESTED/AS SHIPPED	
DESCRIPTION	
REVISION DATA	

TOLERANCES
UNLESS OTHERWISE SPECIFIED
.XXX = ±.005
.XX = ±.015
.X = ±.06
FRACTIONS
LIGHT FAB = ±1/32
HEAVY FAB = ±1/8
INSIDE CORNERS = .03 RAD.
OUTSIDE CORNERS = .06 X 45°
FINISH $\sqrt{25}$

01 02 03 04 05 06 07 08 09 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53



FRONT VIEW

WATERFALL RECEPTACLES

RECEPTACLE	PINS	M/F	DESCRIPTION
01	1	M	POWER SUPPLY PHASE 'A' (BLACK)
02	1	M	POWER SUPPLY PHASE 'B' (WHITE)
03	1	M	POWER SUPPLY PHASE 'C' (RED)
10	37	F	ENCODER SIGNALS
04	1	M	POWER SUPPLY GROUND (GREEN)
01	1	M	POWER SUPPLY PHASE 'A' (BLACK)
02	1	M	POWER SUPPLY PHASE 'B' (WHITE)
03	1	M	POWER SUPPLY PHASE 'C' (RED)
09	19	F	MOTOR BLOWER POWER
04	1	M	POWER SUPPLY GROUND (GREEN)
05	1	F	MOTOR PHASE 'A' (BLACK)
06	1	F	MOTOR PHASE 'B' (WHITE)
07	1	F	MOTOR PHASE 'C' (RED)
15			FIBER OPTICS TO TOP DRIVE
15			FIBER OPTICS TO CONSOLE
08	1	F	MOTOR GROUND (GREEN)
05	1	F	MOTOR PHASE 'A' (BLACK)
06	1	F	MOTOR PHASE 'B' (WHITE)
07	1	F	MOTOR PHASE 'C' (RED)
11	16	F	POWER TO TOP DRIVE CONSOLE
12	16	F	SPARE
13	10	F	HPU CONTROL SIGNALS
14	16	F	HPU POWER

TOLERANCES
 UNLESS OTHERWISE SPECIFIED
 .XXX = ±.005
 .XX = ±.015
 .X = ±.06
 FRACTIONS
 LIGHT FAB = ±1/32
 HEAVY FAB = ±1/8
 INSIDE CORNERS = .03 RAD.
 OUTSIDE CORNERS = .06 X 45°
 FINISH 125

SHEET SIZE: D

CUSTOMER/PROJECT: LEWCO
 500T AC TOP DRIVE HOUSE

DRAWING TITLE: NEW TOP DRIVE BUILDING
 PLUG PANEL LAYOUT

JOB NO. 4314
 DRAWING NO. 4314-L006-01
 REV. 0

LeTourneau Technologies, Inc. Power Systems
 8401 W. Sam Houston Pkwy. N. Houston, TX 77041
 Phone: 713-983-4700 Fax: 713-983-4701
 www.letourneutechnologies.com/power

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 OEM-STD-E002-01 REV. A

DATE	APPROVALS
8/8/07	OW
11/01/07	M

AS TESTED/AS SHIPPED: OW
 DESCRIPTION: REVISION DATA

REV	DATE	DESCRIPTION	REV BY
0	11/01/07		

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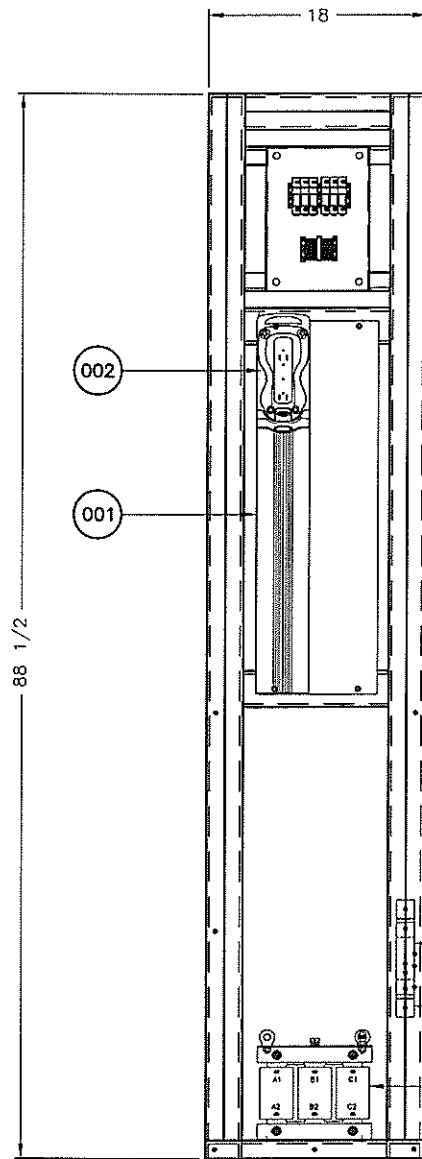
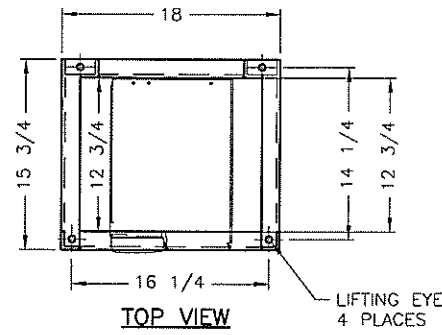
- L1.5 x 1.5
- C3x5
- 7GA P&O PLATE

FINISH:

3-COAT MARINE PAINT SYSTEM:

- COAT 1= 2-3 MILS OF:
INTERZINC 52, OEM P/N: 95PA0106
- COAT 2= 4-6 MILS OF:
INTERGARD 345, OEM P/N: 95PA0127
- COAT 3= 2-3 MILS OF:
INTERTHANE 870, OEM P/N: 95PA0131

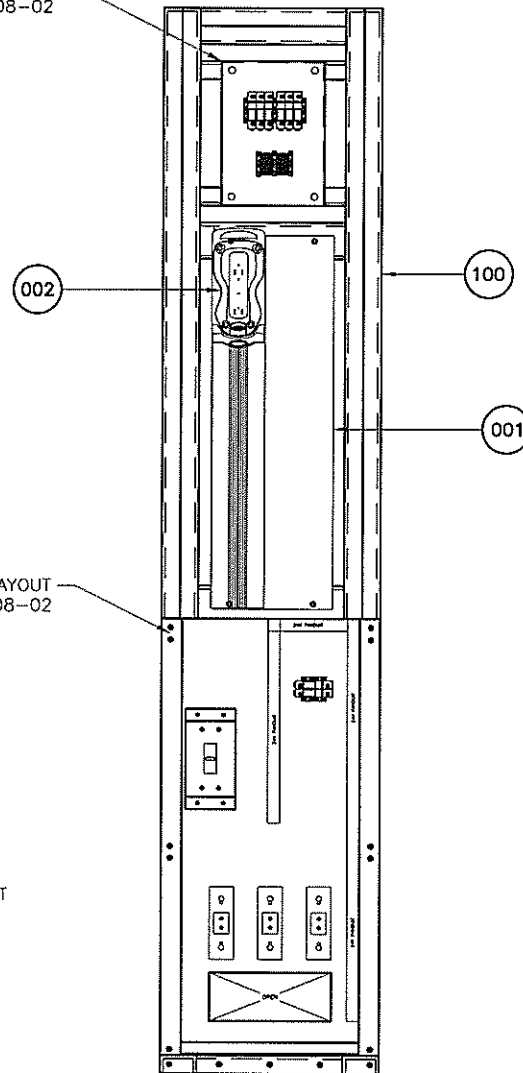
BOM ASSEMBY NO:
4314-L008 BLWR MTR CNVTR
REFERENCE DRAWINGS:
4314-L008-02



FRONT VIEW
W/OUT LOWER SUBPAN

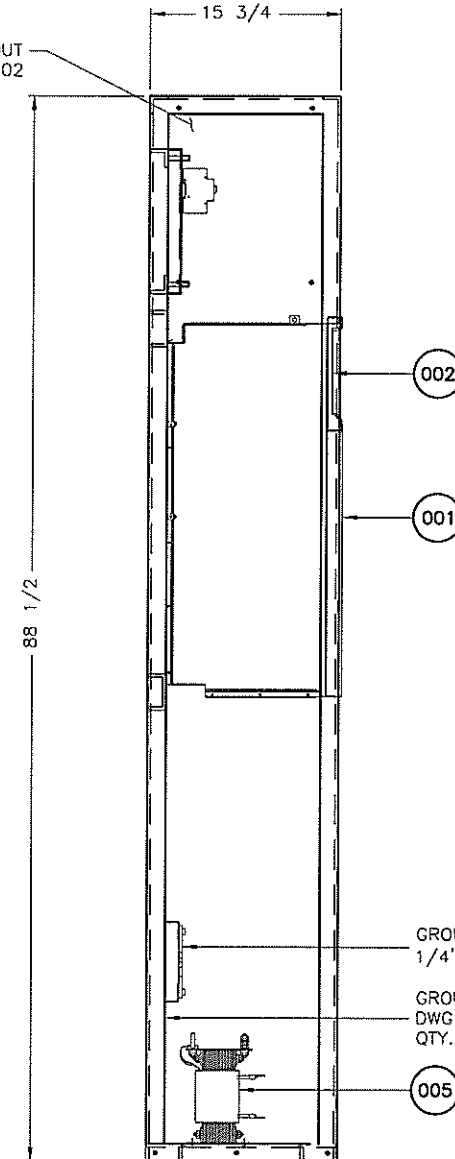
UPPER SUBPAN LAYOUT
DWG 4314-L008-02

LOWER SUBPAN LAYOUT
DWG 4314-L008-02



FRONT VIEW
W/ SUBPANS

CONTACTOR PAN LAYOUT
DWG 4314-L008-02



LEFT SIDE VIEW

GROUND BUS
1/4" X 1-1/2" X 6" LNG.
GROUND BUS MTG. BRACKET
DWG 4314-KXXX-XX
QTY. 2

GROUND BUS
1/4" X 1-1/2" X 6" LNG.
GROUND BUS MTG. BRACKET
DWG 4314-KXXX-XX
QTY. 2

TOLERANCES
UNLESS OTHERWISE SPECIFIED

.XXX	= ±.005
.XX	= ±.015
.X	= ±.06
FRACTIONS	
LIGHT FAB	= ±1/32
HEAVY FAB	= ±1/8
INSIDE CORNERS	= .03 RAD.
OUTSIDE CORNERS	= .06 X 45°
FINISH	✓25


SHEET SIZE: D			
CUSTOMER/PROJECT	LEWCO 500 TON AC TOP DRIVE HOUSE BLOWER CONVERTER LAYOUT		
DRAWING TITLE			
JOB NO.	4314		
DRAWING NO.	4314-L008-01		
REV.	0		
<p>Letourneau Technologies, Inc. Power Systems 6401 W. Sam Houston Pkwy. N. Houston, TX 77041 Phone: 713-983-4700 Fax: 713-983-4701 www.letourneautech.com/power</p> <p>THIS DRAWING/INFORMATION IS THE PROPERTY OF LETOURNEAU TECHNOLOGIES, INC. AND IS LOANED UPON CONDITION THAT IT IS NOT TO BE REPRODUCED OR COPIED IN WHOLE OR IN PART AND IS TO BE RETURNED UPON REQUEST. COPYRIGHT © 2007 LETOURNEAU TECHNOLOGIES, INC. OEM-STD-E002-DI-REV A</p>			
DATE	10/13/07		
APPROVALS	C. Alvarado		
DRAWN			
APPROVED	<i>CA</i>		
AS TESTED/AS SHIPPED			
REVISION DATA			
REV	DATE	DESCRIPTION	REV BY
0	11/01/07		CA

DATE: 11/01/07 DATE ORDER COMPLETED: _____ BY: _____
 O.E.M., INC. JOB NO.: 4314
 O.E.M., INC. JOB NAME: EURASIA CUSTOMER P.O. NO. _____ PAGE 1 OF 2

STANDARD NAMEPLATE ORDER FORM


ITEM NUMBER	QUANTITY	LINE 1	LINE 2	LINE 3	SIZE	COLOR			MOUNTING	
						WHITE W/BLK	BLACK W/WH	RED W/WH	SCREW	TAPE
1	1	OEM EQUIPMENT NAMEPLATE	(SEE TAG ON RIGHT)							
2	1	EQUIPMENT ANSI NAMEPLATE	(SEE TAG ON RIGHT)							
3	1	MB1	1250AF		1"x3" x 1"x2" 2"x4" x 1"x6"	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
4	1	ГРЩ 1037 Л.С.			1"x3" x 1"x2" 2"x4" x 1"x6"	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
5	1	НАЖАТЬ ДЛЯ	ОТКЛЮЧЕНИЯ	ОСНОВНОГО ПИТАНИЯ	1"x3" x 1"x2" 2"x4" x 1"x6"	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
6	2	ИСТОЧНИК ПИТАНИЯ	ФАЗА А	1000 В, 900 А	1"x3" x 1"x2" 2"x4" x 1"x6"	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
7	2	ИСТОЧНИК ПИТАНИЯ	ФАЗА В	1000 В, 900 А	1"x3" x 1"x2" 2"x4" x 1"x6"	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
8	2	ИСТОЧНИК ПИТАНИЯ	ФАЗА С	1000 В, 900 А	1"x3" x 1"x2" 2"x4" x 1"x6"	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
9	1	УПРАВЛЯЮЩИЕ	СИГНАЛЫ ОТ	ВЕРХНЕГО ПРИВОДА	1"x3" x 1"x2" 2"x4" x 1"x6"	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
10	2	ИСТОЧНИК ПИТАНИЯ	ЗАЕМЛЕНИЕ	1000 В, 400 А	1"x3" x 1"x2" 2"x4" x 1"x6"	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
11	1	ВОЗДУХОДУВКИ	И ПОДОГРЕВАТЕЛИ	ДВИГАТЕЛЯ	1"x3" x 1"x2" 2"x4" x 1"x6"	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
12	2	ДВИГАТЕЛЬ	ФАЗА А	1000 В, 900 А	1"x3" x 1"x2" 2"x4" x 1"x6"	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
13	2	ДВИГАТЕЛЬ	ФАЗА В	1000 В, 900 А	1"x3" x 1"x2" 2"x4" x 1"x6"	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
14	2	ДВИГАТЕЛЬ	ФАЗА С	1000 В, 900 А	1"x3" x 1"x2" 2"x4" x 1"x6"	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
15	1	ВОЛОКОННО-ОПТИЧЕСКИЙ	КАБЕЛЬ К	ВЕРХНЕМУ ПРИВОДУ	1"x3" x 1"x2" 2"x4" x 1"x6"	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
16	1	ВОЛОКОННО-ОПТИЧЕСКИЙ	КАБЕЛЬ К	ПУЛЬТУ	1"x3" x 1"x2" 2"x4" x 1"x6"	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
17	1	ЗАЕМЛЕНИЕ ДВИГАТЕЛЯ	1000 В, 400 А		1"x3" x 1"x2" 2"x4" x 1"x6"	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
18	1	ПУЛЬТ ВЕРХНЕГО	ПРИВОДА		1"x3" x 1"x2" 2"x4" x 1"x6"	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
19	1	ЗАПАСНОЙ			1"x3" x 1"x2" 2"x4" x 1"x6"	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
20	1	РЕЗИСТОРЫ	ДИНАМИЧЕСКОГО	ТОРМОЗА	1"x3" x 1"x2" 2"x4" x 1"x6"	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
21	1	МОДУЛЬ ОБРУБКИ	КАНАТА ДИНАМИЧЕСКОГО	ТОРМОЗА	1"x3" x 1"x2" 2"x4" x 1"x6"	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
22	1	СИЛОВОЙ ТРАНСФОРМАТОР	ЦЕПИ УПРАВЛЕНИЯ	30 КВА, 600:220/127 В, 50 ГЦ	1"x3" x 1"x2" 2"x4" x 1"x6"	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
23	1	РАСПРЕДЕЛИТЕЛЬНЫЙ	ЩИТ НА 600 В		1"x3" x 1"x2" 2"x4" x 1"x6"	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
24	1	ЩИТ НА 220/127 В			1"x3" x 1"x2" 2"x4" x 1"x6"	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
25	2	ОВКВ № 1			1"x3" x 1"x2" 2"x4" x 1"x6"	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
26	2	ОВКВ № 2			1"x3" x 1"x2" 2"x4" x 1"x6"	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
27	1	30mm LEGEND PLATE	(SEE RIGHT)		1"x3" x 1"x2" 2"x4" x 1"x6"	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
28	1	DANGER SIGN	(SEE RIGHT)		1"x3" x 1"x2" 2"x4" x 1"x6"	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
29	1	ПРЕДУПРЕЖДЕНИЕ	ОСНОВНОЙ ПРЕРЫВАТЕЛЬ	(МВО) ЗАПИТАН СНИЗУ	1"x3" x 1"x2" 2"x4" x 1"x6"	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
30	1	ТРАНСФОРМАТОР Т2	112.5 КВА	600:400 В, 50 ГЦ	1"x3" x 1"x2" 2"x4" x 1"x6"	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
31	1	СИГНАЛЫ УПРАВЛЕНИЯ	ГИДРОСИЛОВОГО БЛОКА		1"x3" x 1"x2" 2"x4" x 1"x6"	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
32	1	ПИТАНИЕ	ГИДРОСИЛОВОГО БЛОКА		1"x3" x 1"x2" 2"x4" x 1"x6"	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
33	1	ДИСПЕТЧЕР	ДАННЫХ ПРИВОДА		1"x3" x 1"x2" 2"x4" x 1"x6"	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>

NOTES:
 1.- ITEM 1 IS ALWAYS THE EQUIPMENT NAMEPLATE.
 2.- ALL SCREW MOUNTED NAMEPLATE HOLES SHALL BE DRILLED WITH A #27 DRILL BIT (CLEARANCE HOLE FOR A 6-32 x 1/4" SCREW).
 3.- ALL SCREW MOUNTED NAMEPLATES SHALL BE ATTACHED WITH A 6-32 x 1/4" STAINLESS STEEL FLAT HEAD SCREW.
 4.- TAPE MOUNTING MEANS MOUNTING WITH DOUBLE SIDED ADHESIVE TAPE.
 5.- NAMEPLATE LETTERING TO BE A MINIMUM OF 3/16" TEXT HEIGHT.
 6.- WHITE W/BLACK = WHITE BACKGROUND WITH BLACK LETTERS
 7.- BLACK W/WH = BLACK BACKGROUND WITH WHITE LETTERS
 8.- RED W/WH = RED BACKGROUND WITH WHITE LETTERS.
 9.- ITEM NUMBER TO BE USED ON ELEVATION DRAWINGS ONLY.



OILFIELD-ELECTRIC-MARINE, INC.
 6401 W. Sam Houston Parkway North - Houston, Texas 77041
 Phone (713)983-4700 - Fax (713)983-4701

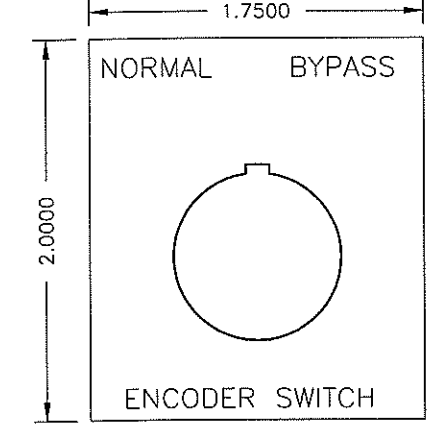
SCALE: 6"=1'-0"
 ITEM 1 - OEM EQUIPMENT NAMEPLATE



OILFIELD-ELECTRIC-MARINE, INC.
 6401 W. Sam Houston Parkway North-Houston, Texas 77041
 Phone (713)983-4700 - Fax (713)983-4701

O.E.M. Job No. 4314 MAX Rated Volts 600V
 Horsepower 1037HP MAX Rated Current 1202A
 Short Ckt. Bracing 55KAIC Overload Rating 150%
 BIL Rating N/A Rated Frequency 50HZ

SCALE: 6"=1'-0"
 ITEM 2 - EQUIPMENT ANSI NAMEPLATE



30mm LEGEND PLATE
 ITEM 27

ОПАСНО

ПЕРЕД ТЕМ КАК ОТКРЫТЬ И ПРИСТУПИТЬ К ОБСЛУЖИВАНИЮ ОБОРУДОВАНИЯ УБЕДИТЕСЬ, ЧТО ОСНОВНЫЕ ИСТОЧНИКИ ПИТАНИЯ ЗАБЛОКИРОВАНЫ. НЕВЫПОЛНЕНИЕ ЭТОГО ТРЕБОВАНИЯ МОЖЕТ ПРИВЕСТИ К СЕРЬЕЗНОЙ ТРАВМЕ ИЛИ СМЕРТИ.

ITEM 28 - DANGER NAMEPLATE


CUSTOMER/PROJECT: LTI DRILLING SYSTEMS HOUSTON, TX 77041
 DRAWING TITLE: TOP DRIVE HOUSE NAMEPLATE DRAWING IN RUSSIAN
 DRAWING NO.: 4314-NO01-01
 JOB NO.: 4314
 DATE: 05/14/07
 DATE: 11/01/07
 APPROVALS: K. TRAN
 DRAWN: [Signature]
 APPROVED: [Signature]
 AS TESTED/AS SHIPPED: [Signature]
 DESCRIPTION: [Signature]
 REVISION DATA: [Signature]

DATE: 11/01/07 DATE ORDER COMPLETED: BY:
 O.E.M., INC. JOB NO.: 4314
 O.E.M., INC. JOB NAME: EURASIA CUSTOMER P.O. NO. PAGE 1 OF 2

STANDARD NAMEPLATE ORDER FORM


ITEM NUMBER	QUANTITY	LINE 1	LINE 2	LINE 3	SIZE	COLOR			MOUNTING	
						WHITE W/BLK	BLACK W/WH	RED W/WH	SCREW	TAPE
1	1	OEM EQUIPMENT NAMEPLATE	(SEE TAG ON RIGHT)							
2	1	EQUIPMENT ANSI NAMEPLATE	(SEE TAG ON RIGHT)							
3	1	MB1	1250AF		1"x3" x 1"x2" 2"x4" x 1"x6"	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
4	1	1037HP VARIABLE	FREQUENCY DRIVE		1"x3" x 1"x2" 2"x4" x 1"x6"	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
5	1	"PUSH TO KILL"	HOUSE MAIN POWER	SUPPLY OFF	1"x3" x 1"x2" 2"x4" x 1"x6"	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
6	2	POWER SUPPLY	PHASE A	1000V, 900A	1"x3" x 1"x2" 2"x4" x 1"x6"	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
7	2	POWER SUPPLY	PHASE B	1000V, 900A	1"x3" x 1"x2" 2"x4" x 1"x6"	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
8	2	POWER SUPPLY	PHASE C	1000V, 900A	1"x3" x 1"x2" 2"x4" x 1"x6"	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
9	1	CONTROL SIGNALS	FROM TOP DRIVE		1"x3" x 1"x2" 2"x4" x 1"x6"	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
10	2	POWER SUPPLY	GROUND	1000V, 400A	1"x3" x 1"x2" 2"x4" x 1"x6"	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
11	1	MOTOR BLOWERS	AND HEATERS		1"x3" x 1"x2" 2"x4" x 1"x6"	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
12	2	MOTOR PHASE A	1000V, 900A		1"x3" x 1"x2" 2"x4" x 1"x6"	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
13	2	MOTOR PHASE B	1000V, 900A		1"x3" x 1"x2" 2"x4" x 1"x6"	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
14	2	MOTOR PHASE C	1000V, 900A		1"x3" x 1"x2" 2"x4" x 1"x6"	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
15	1	FIBER OPTICS	TO TOP DRIVE		1"x3" x 1"x2" 2"x4" x 1"x6"	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
16	1	FIBER OPTICS	TO CONSOLE		1"x3" x 1"x2" 2"x4" x 1"x6"	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
17	1	MOTOR GROUND	1000V, 400A		1"x3" x 1"x2" 2"x4" x 1"x6"	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
18	1	TOP DRIVE	CONSOLE		1"x3" x 1"x2" 2"x4" x 1"x6"	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
19	1	SPARE			1"x3" x 1"x2" 2"x4" x 1"x6"	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
20	1	DYNAMIC BRAKE	RESISTORS		1"x3" x 1"x2" 2"x4" x 1"x6"	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
21	1	DYNAMIC BRAKING	CHOPPER MODULE		1"x3" x 1"x2" 2"x4" x 1"x6"	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
22	1	CONTROL POWER	TRANSFORMER	30KVA, 600:220/127V, 50HZ	1"x3" x 1"x2" 2"x4" x 1"x6"	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
23	1	600V DISTRIBUTION	PANEL		1"x3" x 1"x2" 2"x4" x 1"x6"	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
24	1	220/127V PANELBOARD			1"x3" x 1"x2" 2"x4" x 1"x6"	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
25	2	HVAC #1			1"x3" x 1"x2" 2"x4" x 1"x6"	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
26	2	HVAC #2			1"x3" x 1"x2" 2"x4" x 1"x6"	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
27	1	30mm LEGEND PLATE	(SEE RIGHT)		1"x3" x 1"x2" 2"x4" x 1"x6"	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
28	1	DANGER SIGN	(SEE RIGHT)		1"x3" x 1"x2" 2"x4" x 1"x6"	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
29	1	WARNING	MAIN BREAKER (MBO)	IS BOTTOM-FED	1"x3" x 1"x2" 2"x4" x 1"x6"	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
30	1	T2 TRANSFORMER	112.5KVA	600:400V, 50HZ	1"x3" x 1"x2" 2"x4" x 1"x6"	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
31	1	HPU	CONTROL	SIGNALS	1"x3" x 1"x2" 2"x4" x 1"x6"	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
32	1	HPU	POWER		1"x3" x 1"x2" 2"x4" x 1"x6"	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
33	1	DRIVE	DATA MANAGER		1"x3" x 1"x2" 2"x4" x 1"x6"	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>

NOTES:
 1.- ITEM 1 IS ALWAYS THE EQUIPMENT NAMEPLATE.
 2.- ALL SCREW MOUNTED NAMEPLATE HOLES SHALL BE DRILLED WITH A #27 DRILL BIT (CLEARANCE HOLE FOR A 6-32 x 1/4" SCREW).
 3.- ALL SCREW MOUNTED NAMEPLATES SHALL BE ATTACHED WITH A 6-32 x 1/4" STAINLESS STEEL FLAT HEAD SCREW.
 4.- TAPE MOUNTING MEANS MOUNTING WITH DOUBLE SIDED ADHESIVE TAPE.
 5.- NAMEPLATE LETTERING TO BE A MINIMUM OF 3/16" TEXT HEIGHT.
 6.- WHITE W/BLACK = WHITE BACKGROUND WITH BLACK LETTERS
 7.- BLACK W/WH = BLACK BACKGROUND WITH WHITE LETTERS
 8.- RED W/WH = RED BACKGROUND WITH WHITE LETTERS.
 9.- ITEM NUMBER TO BE USED ON ELEVATION DRAWINGS ONLY.



OILFIELD-ELECTRIC-MARINE, INC.
 6401 W. Sam Houston Parkway North - Houston, Texas 77041
 Phone (713)983-4700 - Fax (713)983-4701

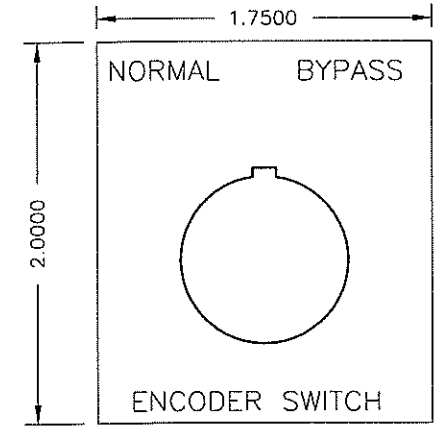
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 ITEM 1 - OEM EQUIPMENT NAMEPLATE



OILFIELD-ELECTRIC-MARINE, INC.
 6401 W. Sam Houston Parkway North-Houston, Texas 77041
 Phone (713)983-4700 - Fax (713)983-4701

O.E.M. Job No. 4314 MAX Rated Volts 600V
 Horsepower 1037HP MAX Rated Current 1202A
 Short Ckt. Bracing 55KAIC Overload Rating 150%
 BIL Rating N/A Rated Frequency 50HZ

SCALE: 6"=1'-0"
 ITEM 2 - EQUIPMENT ANSI NAMEPLATE



30mm LEGEND PLATE
 ITEM 27

DANGER

ENSURE THAT MAIN POWER SOURCES ARE LOCKED OUT BEFORE OPENING & SERVICING EQUIPMENT. FAILURE TO DO SO MAY RESULT IN SERIOUS INJURY OR DEATH.

ITEM 28 - DANGER NAMEPLATE

SHEET SIZE: D

CUSTOMER/PROJECT: LTI DRILLING SYSTEMS HOUSTON, TX 77041
 DRAWING TITLE: TOP DRIVE HOUSE NAMEPLATE DRAWING
 DRAWING NO.: 4314-NO01-01
 JOB NO.: 4314
 REV. 0

Letourneau Technologies, Inc. Power Systems
 6401 W. Sam Houston Pkwy. N. Houston, TX 77041
 Phone: 713-983-4700 Fax: 713-983-4701
 www.letourneaultechnologies.com/power

DATE: 05/14/07
 DATE: 11/01/07

APPROVALS: K. TRAN
 DRAWN: [Signature]
 APPROVED: [Signature]

AS TESTED/AS SHIPPED: [Signature]
 DESCRIPTION: [Signature]
 REVISION DATA

DATE: 11/01/07 DATE ORDER COMPLETED: _____ BY: _____
 O.E.M., INC. JOB NO.: 4314
 O.E.M., INC. JOB NAME: EURASIA CUSTOMER P.O. NO. _____ PAGE 2 OF 2

STANDARD NAMEPLATE ORDER FORM

ITEM NUMBER	QUANTITY	LINE 1	LINE 2	LINE 3	SIZE	COLOR			MOUNTING	
						WHITE W/BLK	BLACK W/WH	RED W/WH	SCREW	TAPE
1	1	ОСВЕЩЕНИЕ			<input type="checkbox"/> 1"x3" <input type="checkbox"/> 1"x2" <input type="checkbox"/> 2"x4" <input type="checkbox"/> 1"x6"	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
2	1	РОЗЕТКА НА	120 В ПЕРЕМ. Т		<input type="checkbox"/> 1"x3" <input type="checkbox"/> 1"x2" <input type="checkbox"/> 2"x4" <input type="checkbox"/> 1"x6"	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
3	1	ПОДОГРЕВАТЕЛЬ	ДВИГАТЕЛЯ		<input type="checkbox"/> 1"x3" <input type="checkbox"/> 1"x2" <input type="checkbox"/> 2"x4" <input type="checkbox"/> 1"x6"	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
4	1	ПИТАНИЕ СЕТИ	УПРАВЛЕНИЯ 120 В		<input type="checkbox"/> 1"x3" <input type="checkbox"/> 1"x2" <input type="checkbox"/> 2"x4" <input type="checkbox"/> 1"x6"	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
5	1	ИСТОЧНИКИ ПИТАНИЯ	ПОСТ. ТОКА		<input type="checkbox"/> 1"x3" <input type="checkbox"/> 1"x2" <input type="checkbox"/> 2"x4" <input type="checkbox"/> 1"x6"	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
6	1	ИСТОЧНИК	ПИТАНИЯ ДЛЯ ПЛК		<input type="checkbox"/> 1"x3" <input type="checkbox"/> 1"x2" <input type="checkbox"/> 2"x4" <input type="checkbox"/> 1"x6"	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
7	1	ОВКВ № 1			<input type="checkbox"/> 1"x3" <input type="checkbox"/> 1"x2" <input type="checkbox"/> 2"x4" <input type="checkbox"/> 1"x6"	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
8	1	ОВКВ № 2			<input type="checkbox"/> 1"x3" <input type="checkbox"/> 1"x2" <input type="checkbox"/> 2"x4" <input type="checkbox"/> 1"x6"	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
9	1	ФИДЕРЫ	T2 И MB2		<input type="checkbox"/> 1"x3" <input type="checkbox"/> 1"x2" <input type="checkbox"/> 2"x4" <input type="checkbox"/> 1"x6"	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>

- NOTES:**
- 1.- ITEM 1 IS ALWAYS THE EQUIPMENT NAMEPLATE.
 - 2.- ALL SCREW MOUNTED NAMEPLATE HOLES SHALL BE DRILLED WITH A #27 DRILL BIT (CLEARANCE HOLE FOR A 6-32 x 1/4" SCREW).
 - 3.- ALL SCREW MOUNTED NAMEPLATES SHALL BE ATTACHED WITH A 6-32 x 1/4" STAINLESS STEEL FLAT HEAD SCREW.
 - 4.- TAPE MOUNTING MEANS MOUNTING WITH DOUBLE SIDED ADHESIVE TAPE.
 - 5.- NAMEPLATE LETTERING TO BE A MINIMUM OF 3/16" TEXT HEIGHT.
 - 6.- WHITE W/BLACK = WHITE BACKGROUND WITH BLACK LETTERS
 - 7.- BLACK W/WH = BLACK BACKGROUND WITH WHITE LETTERS
 - 8.- RED W/WH = RED BACKGROUND WITH WHITE LETTERS.
 - 9.- ITEM NUMBER TO BE USED ON ELEVATION DRAWINGS ONLY.

SHEET SIZE: D

<p>CUSTOMER/PROJECT: LTI DRILLING SYSTEMS HOUSTON, TX 77041</p> <p>DRAWING TITLE: TOP DRIVE HOUSE NAMEPLATE DRAWING IN RUSSIAN</p> <p>JOB NO.: 4314 DRAWING NO.: 4314-N001-02 REV. 0</p>	<p>LeTourneau Technologies, Inc. Power Systems 6401 W. Sam Houston Pkwy. N. Houston, TX 77041 Phone: 713-963-4700 Fax: 713-963-4701 www.letourneautech.com/power</p> <p><small>THIS DRAWING/INFORMATION IS THE PROPERTY OF LETOURNEAU TECHNOLOGIES, INC. AND IS LOANED UPON CONDITION THAT IT IS NOT TO BE REPRODUCED OR COPIED IN WHOLE OR IN PART AND IS TO BE RETURNED UPON REQUEST.</small></p> <p>OCM-STD-ED02-01 REV A LETOURNEAU TECHNOLOGIES, INC.</p>	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 20%;">DATE</td> <td>05/14/07</td> </tr> <tr> <td>APPROVALS</td> <td>K. TRAN</td> </tr> <tr> <td>DRAWN</td> <td></td> </tr> <tr> <td>APPROVED</td> <td></td> </tr> <tr> <td>DATE</td> <td>11/01/07</td> </tr> </table> <table border="1" style="width: 100%; border-collapse: collapse; margin-top: 5px;"> <tr> <th>REV</th> <th>DATE</th> <th>DESCRIPTION</th> </tr> <tr> <td>0</td> <td>11/01/07</td> <td>AS TESTED/AS SHIPPED</td> </tr> <tr> <td>KT</td> <td></td> <td>REV BY</td> </tr> </table>	DATE	05/14/07	APPROVALS	K. TRAN	DRAWN		APPROVED		DATE	11/01/07	REV	DATE	DESCRIPTION	0	11/01/07	AS TESTED/AS SHIPPED	KT		REV BY
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REV	DATE	DESCRIPTION																			
0	11/01/07	AS TESTED/AS SHIPPED																			
KT		REV BY																			

O.E.M., INC. JOB NO.: 4314 DATE: 11/01/07 DATE ORDER COMPLETED: _____ BY: _____
 O.E.M., INC. JOB NAME: EURASIA CUSTOMER P.O. NO. _____ PAGE 2 OF 2

STANDARD NAMEPLATE ORDER FORM

ITEM NUMBER	QUANTITY	LINE 1	LINE 2	LINE 3	SIZE	COLOR			MOUNTING	
						WHITE W/BLK	BLACK W/WH	RED W/WH	SCREW	TAPE
1	1	LIGHT			<input type="checkbox"/> 1"x3" <input type="checkbox"/> 1"x2" <input type="checkbox"/> 2"x4" <input type="checkbox"/> 1"x6"	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
2	1	120 VAC	RECEPTACLE		<input type="checkbox"/> 1"x3" <input type="checkbox"/> 1"x2" <input type="checkbox"/> 2"x4" <input type="checkbox"/> 1"x6"	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
3	1	MOTOR	HEATER		<input type="checkbox"/> 1"x3" <input type="checkbox"/> 1"x2" <input type="checkbox"/> 2"x4" <input type="checkbox"/> 1"x6"	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
4	1	120V CONTROL	POWER		<input type="checkbox"/> 1"x3" <input type="checkbox"/> 1"x2" <input type="checkbox"/> 2"x4" <input type="checkbox"/> 1"x6"	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
5	1	DC POWER	SUPPLIES		<input type="checkbox"/> 1"x3" <input type="checkbox"/> 1"x2" <input type="checkbox"/> 2"x4" <input type="checkbox"/> 1"x6"	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
6	1	PLC POWER	SUPPLY		<input type="checkbox"/> 1"x3" <input type="checkbox"/> 1"x2" <input type="checkbox"/> 2"x4" <input type="checkbox"/> 1"x6"	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
7	1	HVAC #1			<input type="checkbox"/> 1"x3" <input type="checkbox"/> 1"x2" <input type="checkbox"/> 2"x4" <input type="checkbox"/> 1"x6"	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
8	1	HVAC #2			<input type="checkbox"/> 1"x3" <input type="checkbox"/> 1"x2" <input type="checkbox"/> 2"x4" <input type="checkbox"/> 1"x6"	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
9	1	T2 & MB2	FEEDERS		<input type="checkbox"/> 1"x3" <input type="checkbox"/> 1"x2" <input type="checkbox"/> 2"x4" <input type="checkbox"/> 1"x6"	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
10	1	T2	TRANSFORMER	112.5KVA, 600:400V, 50HZ	<input type="checkbox"/> 1"x3" <input type="checkbox"/> 1"x2" <input type="checkbox"/> 2"x4" <input type="checkbox"/> 1"x6"	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>

- NOTES:**
- 1.- ITEM 1 IS ALWAYS THE EQUIPMENT NAMEPLATE.
 - 2.- ALL SCREW MOUNTED NAMEPLATE HOLES SHALL BE DRILLED WITH A #27 DRILL BIT (CLEARANCE HOLE FOR A 6-32 x 1/4" SCREW).
 - 3.- ALL SCREW MOUNTED NAMEPLATES SHALL BE ATTACHED WITH A 6-32 x 1/4" STAINLESS STEEL FLAT HEAD SCREW.
 - 4.- TAPE MOUNTING MEANS MOUNTING WITH DOUBLE SIDED ADHESIVE TAPE.
 - 5.- NAMEPLATE LETTERING TO BE A MINIMUM OF 3/16" TEXT HEIGHT.
 - 6.- WHITE W/BLACK = WHITE BACKGROUND WITH BLACK LETTERS
 - 7.- BLACK W/WH = BLACK BACKGROUND WITH WHITE LETTERS
 - 8.- RED W/WH = RED BACKGROUND WITH WHITE LETTERS.
 - 9.- ITEM NUMBER TO BE USED ON ELEVATION DRAWINGS ONLY.



LeTourneau Technologies, Inc. Power Systems
 6401 W. Sam Houston Pkwy. N. Houston, TX 77041
 Phone: 713-983-4700 Fax: 713-983-4701
 www.letourneoutechnologies.com/power

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DATE	05/14/07
APPROVALS	K. TRAN
DRAWN	
APPROVED	<i>[Signature]</i>
AS TESTED/AS SHIPPED	
DESCRIPTION	
REVISION DATA	
REV	DATE
0	11/01/07
1	11/01/07

CUSTOMER/PROJECT: LTI DRILLING SYSTEMS
 HOUSTON, TX 77041
 DRAWING TITLE: TOP DRIVE HOUSE NAMEPLATE DRAWING
 JOB NO: 4314
 DRAWING NO: 4314-N001-02
 REV: 0

DATE: 11/01/07 DATE ORDER COMPLETED: _____ BY: _____
 O.E.M., INC. JOB NO.: 4314 CUSTOMER P.O. NO. _____ PAGE 1 OF 1
 O.E.M., INC. JOB NAME: EURASIA

STANDARD NAMEPLATE ORDER FORM

ITEM NUMBER	QUANTITY	LINE 1	LINE 2	LINE 3	SIZE	COLOR			MOUNTING	
						WHITE W/BLK	BLACK W/WH	RED W/WH	SCREW	TAPE
1	1	ПИТАНИЕ И КАБЕЛИ	ОПЕРАТОРНОЙ ИЗ ЗДАНИЯ		<input checked="" type="checkbox"/> 1"x3" <input type="checkbox"/> 1"x2" <input type="checkbox"/> 2"x4" <input type="checkbox"/> 1"x6"	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
2	1	ВОЛОКОННО-ОПТИЧЕСКИЕ	КАБЕЛИ ИЗ ЗДАНИЯ		<input checked="" type="checkbox"/> 1"x3" <input type="checkbox"/> 1"x2" <input type="checkbox"/> 2"x4" <input type="checkbox"/> 1"x6"	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
3	1	СКОРОСТЬ ВРАЩЕНИЯ	ВЕРХНЕГО ПРИВОДА		<input checked="" type="checkbox"/> 1"x3" <input type="checkbox"/> 1"x2" <input type="checkbox"/> 2"x4" <input type="checkbox"/> 1"x6"	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
4	1	ВРАЩАЮЩИЙ МОМЕНТ	ВЕРХНЕГО ПРИВОДА		<input checked="" type="checkbox"/> 1"x3" <input type="checkbox"/> 1"x2" <input type="checkbox"/> 2"x4" <input type="checkbox"/> 1"x6"	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
5	1	СЕРВИСНАЯ	КОМПАНИЯ №1		<input checked="" type="checkbox"/> 1"x3" <input type="checkbox"/> 1"x2" <input type="checkbox"/> 2"x4" <input type="checkbox"/> 1"x6"	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
6	1	СЕРВИСНАЯ	КОМПАНИЯ №2		<input checked="" type="checkbox"/> 1"x3" <input type="checkbox"/> 1"x2" <input type="checkbox"/> 2"x4" <input type="checkbox"/> 1"x6"	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
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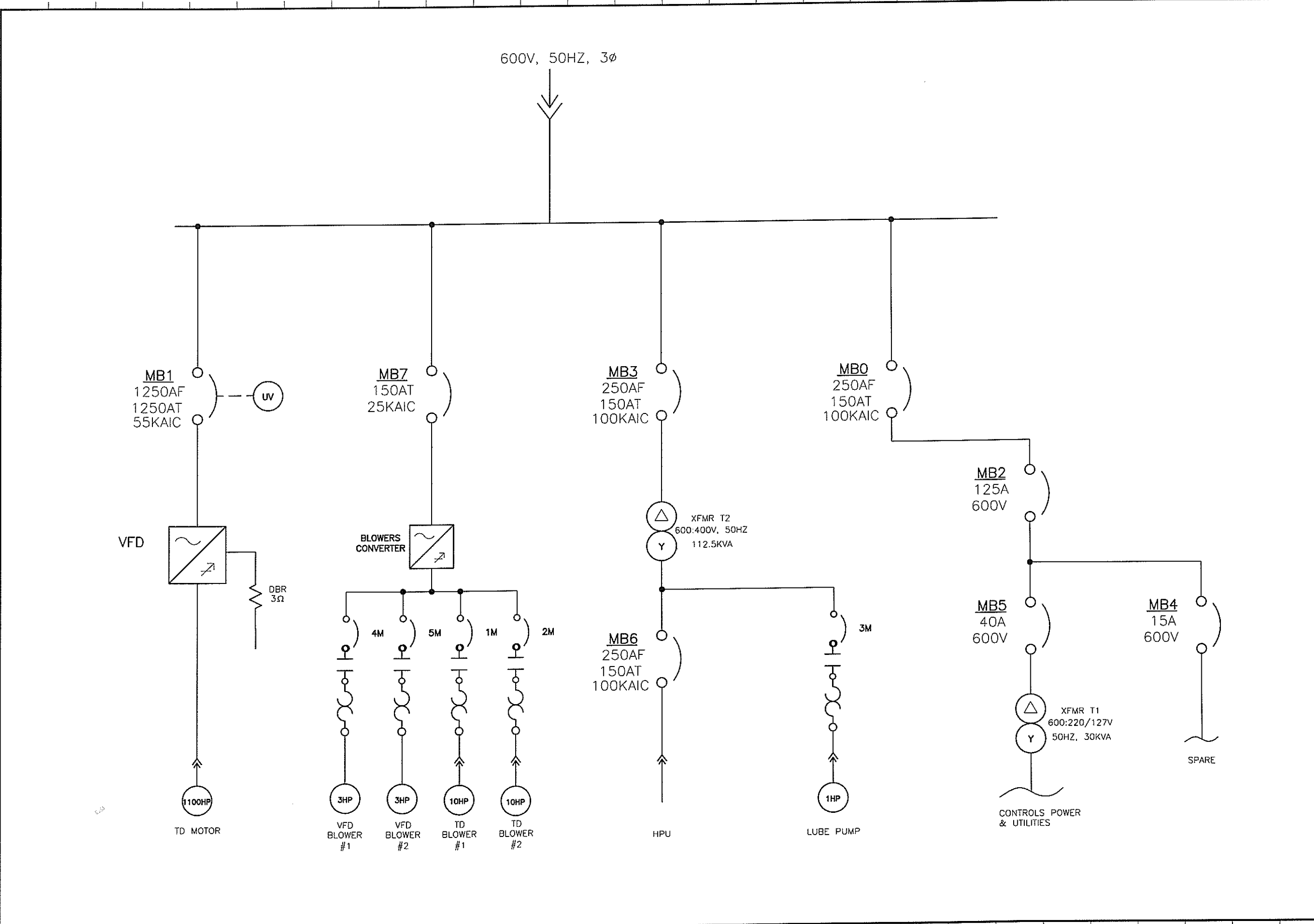
DATE: 11/01/07 DATE ORDER COMPLETED: _____ BY: _____
 O.E.M., INC. JOB NO.: 4314
 O.E.M., INC. JOB NAME: EURASIA CUSTOMER P.O. NO. _____ PAGE 1 OF 1

STANDARD NAMEPLATE ORDER FORM

ITEM NUMBER	QUANTITY	LINE 1	LINE 2	LINE 3	SIZE	COLOR			MOUNTING	
						WHITE W/BLK	BLACK W/WH	RED W/WH	SCREW	TAPE
1	1	POWER & CONTROL	FROM HOUSE		<input checked="" type="checkbox"/> 1"x3" <input type="checkbox"/> 1"x2" <input type="checkbox"/> 2"x4" <input type="checkbox"/> 1"x6"	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
2	1	FIBER OPTICS	FROM HOUSE		<input checked="" type="checkbox"/> 1"x3" <input type="checkbox"/> 1"x2" <input type="checkbox"/> 2"x4" <input type="checkbox"/> 1"x6"	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
3	1	TOP DRIVE SPEED			<input checked="" type="checkbox"/> 1"x3" <input type="checkbox"/> 1"x2" <input type="checkbox"/> 2"x4" <input type="checkbox"/> 1"x6"	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
4	1	TOP DRIVE TORQUE			<input checked="" type="checkbox"/> 1"x3" <input type="checkbox"/> 1"x2" <input type="checkbox"/> 2"x4" <input type="checkbox"/> 1"x6"	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
5	1	SERVICE	COMPANY 1		<input checked="" type="checkbox"/> 1"x3" <input type="checkbox"/> 1"x2" <input type="checkbox"/> 2"x4" <input type="checkbox"/> 1"x6"	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
6	1	SERVICE	COMPANY 2		<input checked="" type="checkbox"/> 1"x3" <input type="checkbox"/> 1"x2" <input type="checkbox"/> 2"x4" <input type="checkbox"/> 1"x6"	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
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SHEET SIZE: B	
CUSTOMER/PROJECT	LEWCO 500 TON AC TOP DRIVE HOUSE
DRAWING TITLE	ONE-LINE DIAGRAM VFD & AUXILIARIES
JOB NO.	4314
DRAWING NO.	4314-Q000-01
REV.	0
DATE	10/22/07
APPROVALS	JN
AS TESTED/AS SHIPPED	
DESCRIPTION	
REVISION DATA	
DATE	10/29/07
REV	

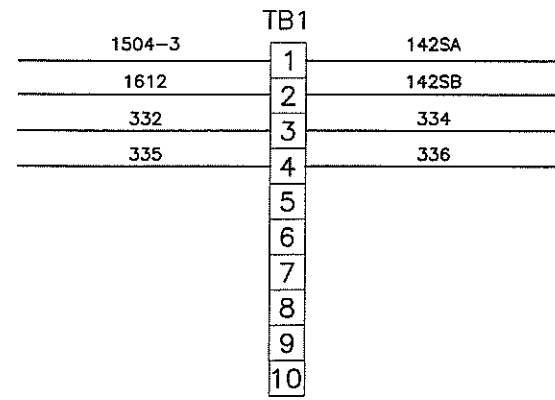
LeTourneau Technologies, Inc. Power Systems
6401 W. Sam Houston Pkwy. N. Houston, TX 77041
Phone: 713-983-4700 Fax: 713-983-4701
www.letourneutechnologies.com/power

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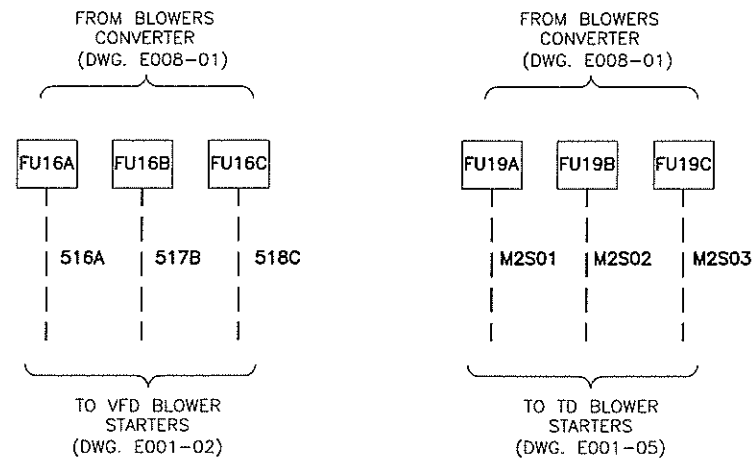
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OEM-STD-E002-B1 REV A

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CONNECTIONS TO VFD & TD BLOWER MOTORS
(SEE DWG. E001-02 & 05)



- NOTES:
- — — DENOTES FIELD WIRING.
 - REFER TO E103-01 FOR POWER SCHEMATICS DETAIL.
 - REFER TO E103-02 FOR CONTROL SCHEMATICS.
 - ONLY FEILD CONNECTIONS ARE SHOWN.

01 02 03 04 05 06 07 08 09 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27

SHEET SIZE: B

CUSTOMER/PROJECT: LEWCO
500 TON AC TOP DRIVE HOUSE
DRAWING TITLE: BLOWERS CONVERTER ELECTRICAL SCHEMATIC WIRING CONNECTIONS
JOB NO.: 4314
DRAWING NO.: 4314-008-01
REV. 0

Letourneau Technologies, Inc. Power Systems
6401 W. Sam Houston Pkwy. N. Houston, TX 77041
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APPROVALS	DATE
DRAWN	10/08/07
APPROVED	11/01/07

REV	DATE	DESCRIPTION
0	11/01/07	AS TESTED/AS SHIPPED
		REVISION DATA