MVVSD2250R_–92
MVVSD2500R_–92

T = YT UNITS
K = YK UNITS

NO	DRAWING NO	REV	DRAWING DESCRIPTION
00	I808K500	1	MEDIUM VOLTAGE FLOOR MOUNT VFD
01	---	--	----
02	---	--	----
03	I808K503	0	GROUNDING PROCEDURE
04	---	--	----
05	I808K505	0	RATING SHEET
06	---	--	----
07	I808K507	0	ONE–LINE DIAGRAM
08	---	--	----
09	---	--	----
10	I808K510	0	THREE–LINE DIAGRAM
11	I808K511	0	MAIN CIRCUIT
12	I808K512	0	RECTIFIER CIRCUIT
13	---	--	----
14	---	--	----
15	I808K515	0	CONTROL POWER AND FAN CIRCUITS

NO	DRAWING NO	REV	DRAWING DESCRIPTION
16	I808K516	1	PCB INTERCONNECTION (1)
17	I808K517	0	PCB INTERCONNECTION (2)
18	I808K518	0	EXTERNAL I/O (1)
19	I808K519	0	EXTERNAL I/O (2)
20	I808K520	0	CONTROL CIRCUIT
21	---	--	----
22	---	--	----
23	---	--	----
24	---	--	----
25	---	--	----
26	---	--	----
27	---	--	----
28	I808K528	1	CHILLER SYSTEM TERMINAL CONNECTIONS
29	---	--	----
30	I808K530	0	ENCLOSURE OUTLINE
31	---	--	----

REV. LEV.	DATE	REVISION RECORD	CHG. NO.	DR.	CK.
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YORK INTERNATIONAL CORPORATION
YORK , PA . 17405

DIMENSIONS ARE IN INCHES
DO NOT SCALE
TOLERANCES PER ENG. STD. M–282
WELDING PER ENG. STD. M–30
REF. DWG.

MEDIUM VOLTAGE
VFD FLOOR MOUNT
FRAME 3 3300V

MATERIAL
TYPE _____ ENG. STD. ____
PART NO. _____
CUT SIZE _____

NAME DATE
DR. _____
APPR. _____
SCALE: _____

SIZE D | CAGE NO | DRAWING NUMBER I808K500

WT. = LBS. | ORIG. NO. | SHEET 1 of 15

STANDARD PANEL GROUNDING PROCEDURES
TO BE FOLLOWED AT INSTALLATION

SCOPE

THIS DRAWING WILL DOCUMENT PROCEDURES WHICH ARE TO BE FOLLOWED BY CUSTOMER'S CONTRACTOR WHEN INSTALLING INDUSTRIAL DRIVE AND MOTOR SYSTEMS

IN ORDER TO UNDERSTAND THE REASONS FOR MANY OF THE PRACTICES THAT ARE RECOMMENDED. IT IS HELPFUL TO SEGREGATE THESE PRACTICES INTO TWO CATEGORIES AS FOLLOWS:

1) THOSE GENERALLY REFERRED TO AS EQUIPMENT GROUNDING PRACTICES WHOSE PURPOSES ARE:
   - TO PROTECT AGAINST THE RISK OF ELECTRICAL SHOCK OR BURN.
   - TO PROTECT THE EQUIPMENT FROM FIRE OR OTHER DAMAGE DUE TO GROUND FAULTS OR LIGHTNING STRIKES.

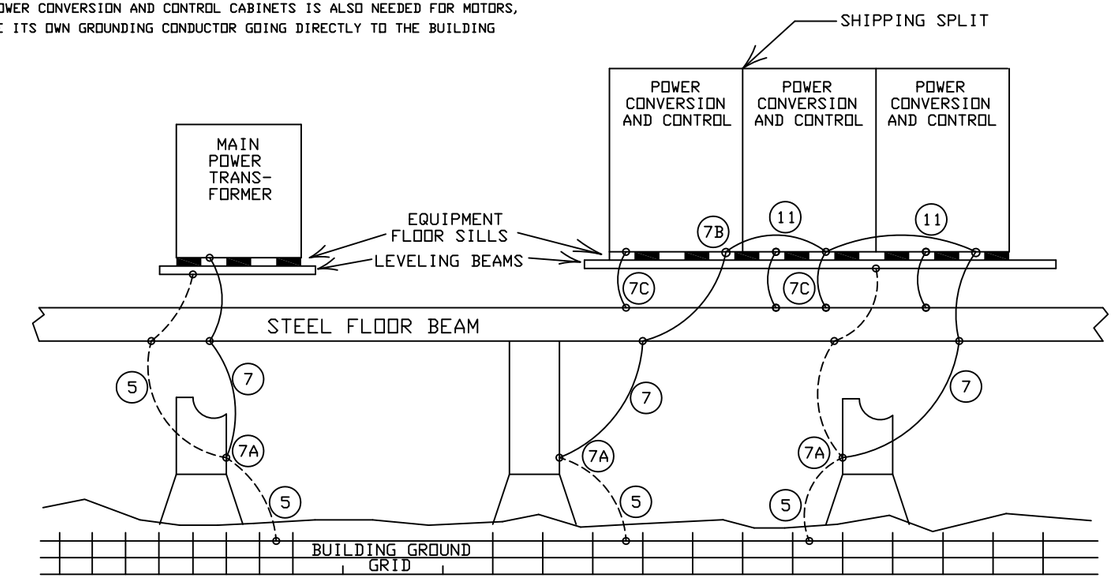
   THESE PRACTICES WOULD TYPICALLY BE FOLLOWED BY THE CONTRACTOR IN COMPLIANCE WITH NEC OR OTHER CODE REQUIREMENTS.
2) THOSE PRACTICES WHICH MAKE THE EQUIPMENT IMMUNE TO ELECTRICAL NOISE ORIGINATING WITHIN OR OUTSIDE THE EQUIPMENT. THESE COMPLEMENT THE EQUIPMENT GROUNDING AND LEVEL WIRING PRACTICES IN PROVIDING NOISE IMMUNITY.

EQUIPMENT GROUNDING

1) ALL METAL BUILDING STRUCTURES SUCH AS COLUMNS, FLOOR BEAMS, ETC. SHOULD BE GROUNDED BY AN INTERCONNECTING HEAVY GROUND CABLE (5) IN ACCORDANCE WITH RECOMMENDED BUILDING PRACTICES AND LOCAL CODES.
2) ALL ELECTRICAL JOINTS AND CONNECTIONS TO THE BUILDING STRUCTURES SHOULD BE BRAZED OR EXOTHERMIC WELDED TO ASSURE THAT THE REQUIRED GOOD ELECTRICAL AND MECHANICAL PROPERTIES DO NOT DETERIORATE WITH THE PASSAGE OF TIME.
3) ALL PANELS SHOULD BE GROUNDED AT LEAST ONE POINT USING A HEAVY SAFETY CABLE (7). PANELS GREATER THAN 15 FT LONG SHOULD BE GROUNDED AT BOTH ENDS. THE GROUND CABLE NEEDS TO BE AT LEAST 1/0 AWG FOR MECHANICAL REASONS AND NEED NOT BE GREATER THAN 500 MCM. THIS CABLE IS USUALLY NON-INSULATED.
4) THE SAFETY GROUND CABLE (7) SHOULD BE BRAZED OR EXOTHERMIC WELDED (7A) TO A BUILDING STEEL STRUCTURE THAT IS CLOSEST TO THE PANEL, PREFERABLY WITHIN 25 FT.
5) THE EQUIPMENT END (7B) SHOULD BE BOLTED OR BRAZED TO A GROUND TERMINATION POINT ON THE PANEL.
6) THE EQUIPMENT GROUNDING TERMINAL IS A COPPER GROUND BUS OR STUB BUS BONDED TO THE PANEL ENCLOSURE USING BRAZING OR BOLTING IN SUCH MANNER THAT THE CONDUCTING PATH HAS A RESISTANCE OF 0.1 OHMS OR LESS.
7) THE GROUNDING CONDUCTORS MUST BE CAPABLE OF HANDLING ANTICIPATED GROUND FAULT CURRENTS.
8) THERE SHOULD BE A JUMPER CABLE (11) ACROSS THE GROUND BUS FLOOR SILL BETWEEN ANY SHIPPING SPLITS AND SIZED THE SAME AS THE SAFETY GROUND UNLESS OTHERWISE SPECIFIED.
9) THE PROTECTIVE GROUNDING DESCRIBED ABOVE FOR POWER CONVERSION AND CONTROL CABINETS IS ALSO NEEDED FOR MOTORS, TRANSFORMERS AND REACTORS. EACH OF THESE SHOULD HAVE ITS OWN GROUNDING CONDUCTOR GOING DIRECTLY TO THE BUILDING GROUND GRID.

GROUNDING PROCEDURES NEEDED TO ENSURE ELECTRICAL NOISE IMMUNITY

1) LEVELING BEAMS, STEEL MESH, GALVANIZED FLOOR, DECKING, ETC. SHOULD BE INSTALLED PRIOR TO PLACING THE EQUIPMENT. THESE SHOULD BE CONNECTED TO THE BUILDING GROUND SYSTEM USING A BRAZING OR EXOTHERMIC WELDING PROCESS.
2) GROUNDING LEVELING BEAMS ARE NOT AN ABSOLUTE NECESSITY FOR SATISFACTORY OPERATION. ON NEW CONSTRUCTION SUCH BEAMS CAN BE PROVIDED WITH LITTLE DIFFICULTY. FOR EXISTING CONSTRUCTION IT USUALLY WILL BE MORE DIFFICULT, IN WHICH CASE THE LEVELING BEAMS MAY BE DISPENSED WITH, PROVIDED OTHER GROUNDED STRUCTURES SUCH AS COLUMNS AND FLOOR BEAMS ARE WITHIN 10 FEET OF THE EQUIPMENT.
3) AFTER SETTING THE CONTROL PANELS IN PLACE, THE PERIPHERY OF THE CONTROL PANELS SHOULD BE SPOT WELDED TO THE STEEL CHANNELS APPROXIMATELY EVERY 18 INCHES. THIS CREATES A VERY GOOD HIGH FREQUENCY GROUND PLANE. CARE SHOULD BE TAKEN TO AVOID ELECTRONIC COMPONENT DAMAGE DURING THE WELDING PROCESS BY KEEPING THE WELDED RETURN PATH AS CLOSE AS POSSIBLE TO THE WORK POSITION. THAT IS, THE RETURN PATH SHOULD ALWAYS BE WITHIN 3 FEET OF THE ELECTRODE.
4) IF LEVELING BEAMS ARE NOT INSTALLED, A NUMBER OF GROUNDING CABLES (7C) SHOULD BE RUN FROM THE GROUND LUGS PROVIDED ON THE PANEL TO THE NEAREST GROUNDED COLUMN OR FLOOR BEAM, OR WIRE FLOOR MESH, ETC. THIS WILL PROVIDE THE NECESSARY HIGH FREQUENCY GROUND PLANE.



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YORK, PA. 17405

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TOLERANCES PER ENG. STD. M-282
WELDING PER ENG. STD. M-30
REF. DWG.

GROUNDING PROCEDURE

MATERIAL
TYPE _____ ENG. STD. ____
PART NO. _____
CUT SIZE _____

NAME DATE
DR.
APPR.
SCALE:

SIZE D | CAGE NO | DRAWING NUMBER 1808K503

WT. = LBS. | ORIG. NO. | SHEET 2 of 15

COMPONENT RATING

SHEET NUMBER	COMPONENT	MVVSD2250R_-92 ~ 2500R_-92
		RATING
5	10LA	6kV
	10ISW1	720A, 5.0kV
	10FU1~3	SEE TABLE A
	10M1	720A, 6.6kV
	10M1A	720A, 6.6kV
	10ACL	10.7mH
	10F4~7	2E, 4.8kV
	10PT1~2	450VA, 3300:110V
	10CPT	SEE TABLE A
	10F8~10	4E, 4.8kV
	10F12~14	SEE TABLE A
	10F15	20A, 600Vac
6	HCTU,HCTW	500A:250mA
	11T1	SEE TABLE A
	11R11	100k ohm, 225W
	GDI	---
7	FUSE	SEE TABLE A
	DIODE	2200V, 540A
	POWER MODULE (U,V,W)	±1800Vdc, 444A
8	15MCB1	15A, 600V
	15V1	480V, 2a2b
	15MS1~4	1.6~2.5A, 480V (set @ 2.3A)
	15MOV1~3	625V, 230J
	15FN1~4	460V, 1.2kW
	15MCB2	240Vac, 20A, 2P
	15F1~2	5A, 600Vac
	PDM	---
	15PS1	120/240:+5,+/-15,24V,80W
	15DS1~3	10A, 600V
	VX	25A, 4a4b/2a2b, 120Vac
	15VFD	460V, 14.3A
	15LF	480V, 12A
9	CTR	---
	GSD	---
	16R1,3	SEE TABLE A
	16R2,4	SEE TABLE A
	MODBUS	ETHERNET/RTU (RS485)
10	IPAD	---
	DISP	G7A
	XIO	---
11	BLR	24Vdc, 4a4b
	FLT,INPC	24Vdc, 2a2b
13	EXT	115V, 4a4b
	VCCT1,2	115V

TABLE A

MODEL NUMBER	MOTOR HP	DRIVE FLA	OIL PUMP TYPE	10FU1~3	10CPT	10F12~14	11T1	FUSE	16R1,3	16R2,4
				RATING	RATING	RATING	RATING	RATING	RATING	RATING
MVVSD2250RT-92	2250	345	YT	450E, 5.5KV	3300:400V-2KVA,115V-2KVA	5A, 600V	1937kVA,3300V:635V(4)	700V, 300A	15 ohm, 3W, 1%	1 ohm, 3W, 1%
MVVSD2250RK-92	2250	345	YK	450E, 5.5KV	3300:400V-3KVA,115V-2KVA	7A, 600V	1937kVA,3300V:635V(4)	700V, 300A	15 ohm, 3W, 1%	1 ohm, 3W, 1%
MVVSD2500RT-92	2500	391	YT	500E, 5.5KV	3300:400V-2KVA,115V-2KVA	5A, 600V	2149kVA,3300V:635V(4)	700V, 300A	10 ohm, 3W, 1%	5 ohm, 3W, 1%
MVVSD2500RK-92	2500	391	YK	500E, 5.5KV	3300:400V-3KVA,115V-2KVA	7A, 600V	2149kVA,3300V:635V(4)	700V, 300A	10 ohm, 3W, 1%	5 ohm, 3W, 1%

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YORK INTERNATIONAL CORPORATION
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DIMENSIONS ARE IN INCHES
DO NOT SCALE
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WELDING PER ENG. STD. M-30
REF. DWG.

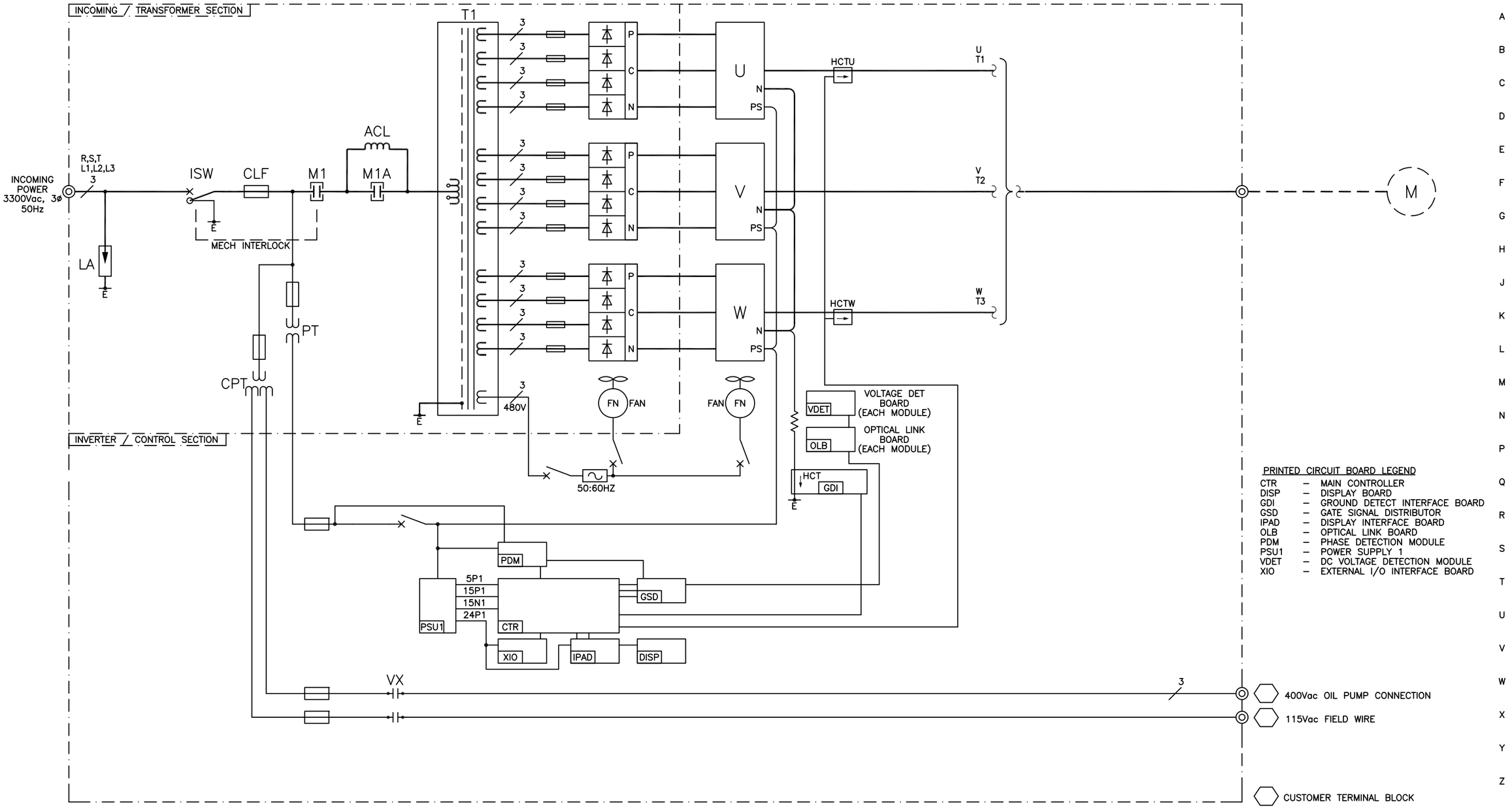
RATING SHEET, COMPONENTS

MATERIAL
TYPE _____ ENG. STD. ____
PART NO. _____
CUT SIZE _____

NAME DATE
DR. _____
APPR. _____
SCALE: _____

SIZE D | CAGE NO | DRAWING NUMBER I808K505

WT. = LBS. | ORIG. NO. | SHEET 3 of 15



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YORK INTERNATIONAL CORPORATION
YORK , PA . 17405

DIMENSIONS ARE IN INCHES
DO NOT SCALE
TOLERANCES PER ENG. STD. M-282
WELDING PER ENG. STD. M-30
REF. DWG.

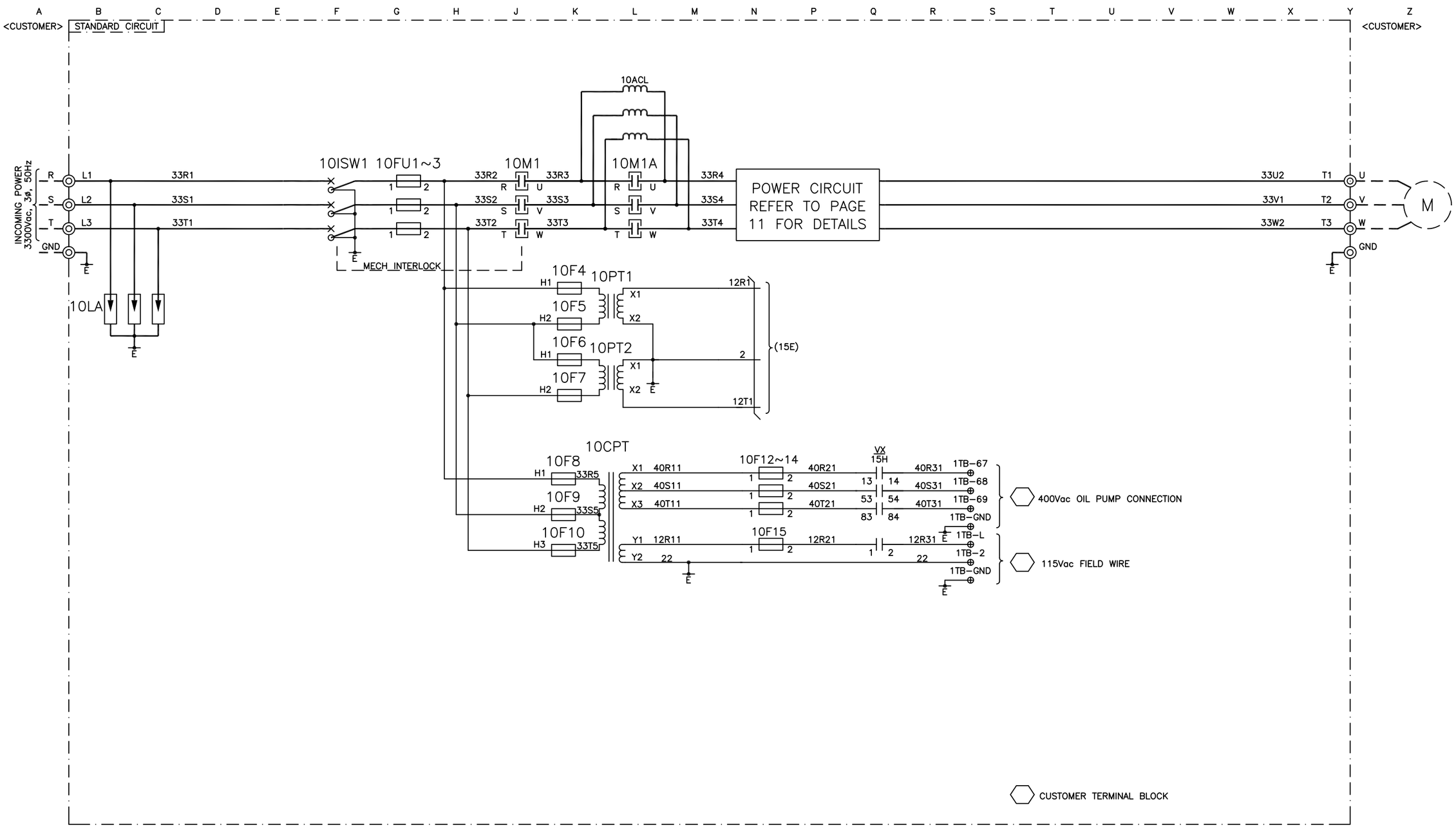
ONE-LINE DIAGRAM

MATERIAL
TYPE _____ ENG. STD. ____
PART NO. _____
CUT SIZE _____

NAME DATE
DR. _____
APPR. _____
SCALE: _____

SIZE D | CAGE NO | DRAWING NUMBER I808K507

WT. = LBS. | ORIG. NO. | SHEET 4 of 15



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YORK INTERNATIONAL CORPORATION
YORK , PA . 17405

DIMENSIONS ARE IN INCHES
DO NOT SCALE
TOLERANCES PER ENG. STD. M-282
WELDING PER ENG. STD. M-30
REF. DWG.

THREE-LINE DIAGRAM

MATERIAL
TYPE _____ ENG. STD. ____
PART NO. _____
CUT SIZE _____

NAME DATE
DR.
APPR.
SCALE:

SIZE D | CAGE NO | DRAWING NUMBER I808K510

WT. = LBS. | ORIG. NO. | SHEET 5 of 15

TRANSFORMER SECTION

INVERTER SECTION

11T1

RECTIFIER (SEE PAGE 12)

POWER MODULE (SEE PAGE 12)

RECTIFIER (SEE PAGE 12)

POWER MODULE (SEE PAGE 12)

RECTIFIER (SEE PAGE 12)

POWER MODULE (SEE PAGE 12)

42ACN

(16A)

15P1 (BK) IU

15N1 (WH)

1 2 3 4

HCTU

33U1

33U2

33V1

OUTPUT (10Q)

(16A)

15P1 (BK) IW

15N1 (WH)

1 2 3 4

HCTW

33W1

33W2

FROM 10M1A (10M)

33R4 H1

33S4 H2

33T4 H3

THERMOSTATS

(19Y)

19YU CS 21

Z24A CS 22

E

TSR RØ PRI COIL

TSS SØ PRI COIL

TST TØ PRI COIL

R₀ S₀ T₀ (15B)

E

1

11R11

2

0W

GDI

031-02678-000

TB1-1

C

TB1-2

E

HCT1 30mA/4V

Fault Det.: I≥9mA

Time Const =2.7mS GAIN=1.002

I_GND

TP4

I_GND (ASB)

TP5

P15

CN1

15P1

0V1

15N1

IGR

0V1

(16F)

N15

LG

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YORK , PA . 17405

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WELDING PER ENG. STD. M-30
REF. DWG.

MAIN CIRCUIT

MATERIAL
TYPE _____ ENG. STD. ____
PART NO. _____
CUT SIZE _____

NAME DATE
DR.
APPR.
SCALE:

SIZE D

CAGE NO

DRAWING NUMBER 1808K511

WT. = LBS.

ORIG. NO.

SHEET 6 of 15

TRANSFORMER CUBICLE

POWER MODULE – □ (SEE RATINGS)
□:U, V, W

VISUAL BLOWN–FUSE INDICATORS

□1R, □1S, □1T, □2R, □2S, □2T, □3R, □3S, □3T, □4R, □4S, □4T — FR, FS, FT

DIODE C1 / E1/C2 / E2

RP11, RP21, RN21, RN11

HSP, HSN

P, C, N

33□1, 33ACN

OUTPUT CIRCUIT (CONNECTION TYPICAL FOR U, V, AND W PHASE)

TRANSFORMER SECONDARY (CONNECTION TYPICAL FOR U, V, AND W PHASE)

CTRL PWR CN1 1 2 / 1 2 / 1A 2 (15M)

OLB CN1 1–40 / 1–40 (16S)

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REF. DWG.

RECTIFIER CKT.
(ONE PHASE)

MATERIAL
TYPE _____ ENG. STD. ____
PART NO. _____
CUT SIZE _____

NAME DATE
DR.
APPR.
SCALE:

SIZE D

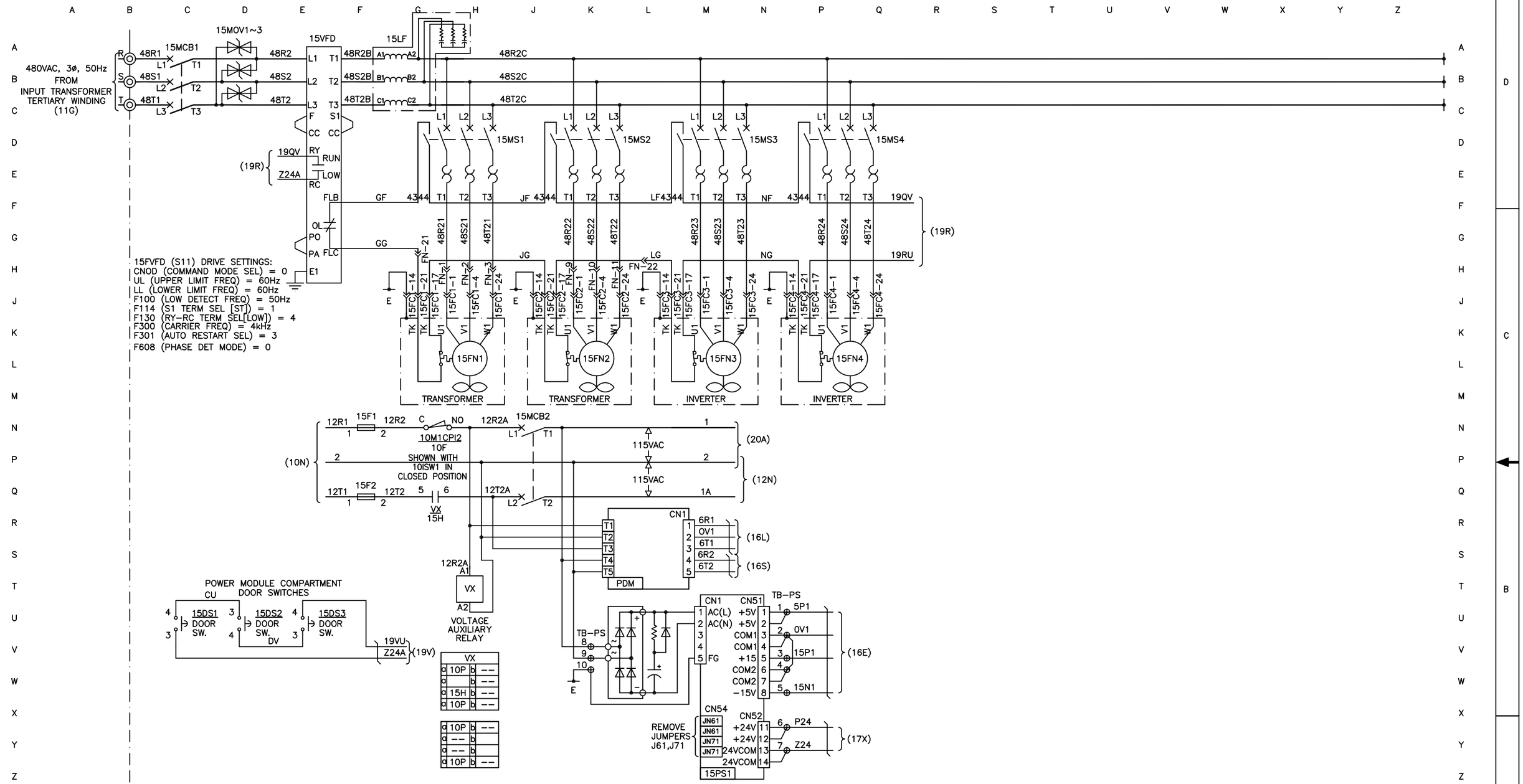
CAGE NO

DRAWING NUMBER
I808K512

WT. = LBS.

ORIG. NO.

SHEET 7 of 15



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YORK INTERNATIONAL CORPORATION
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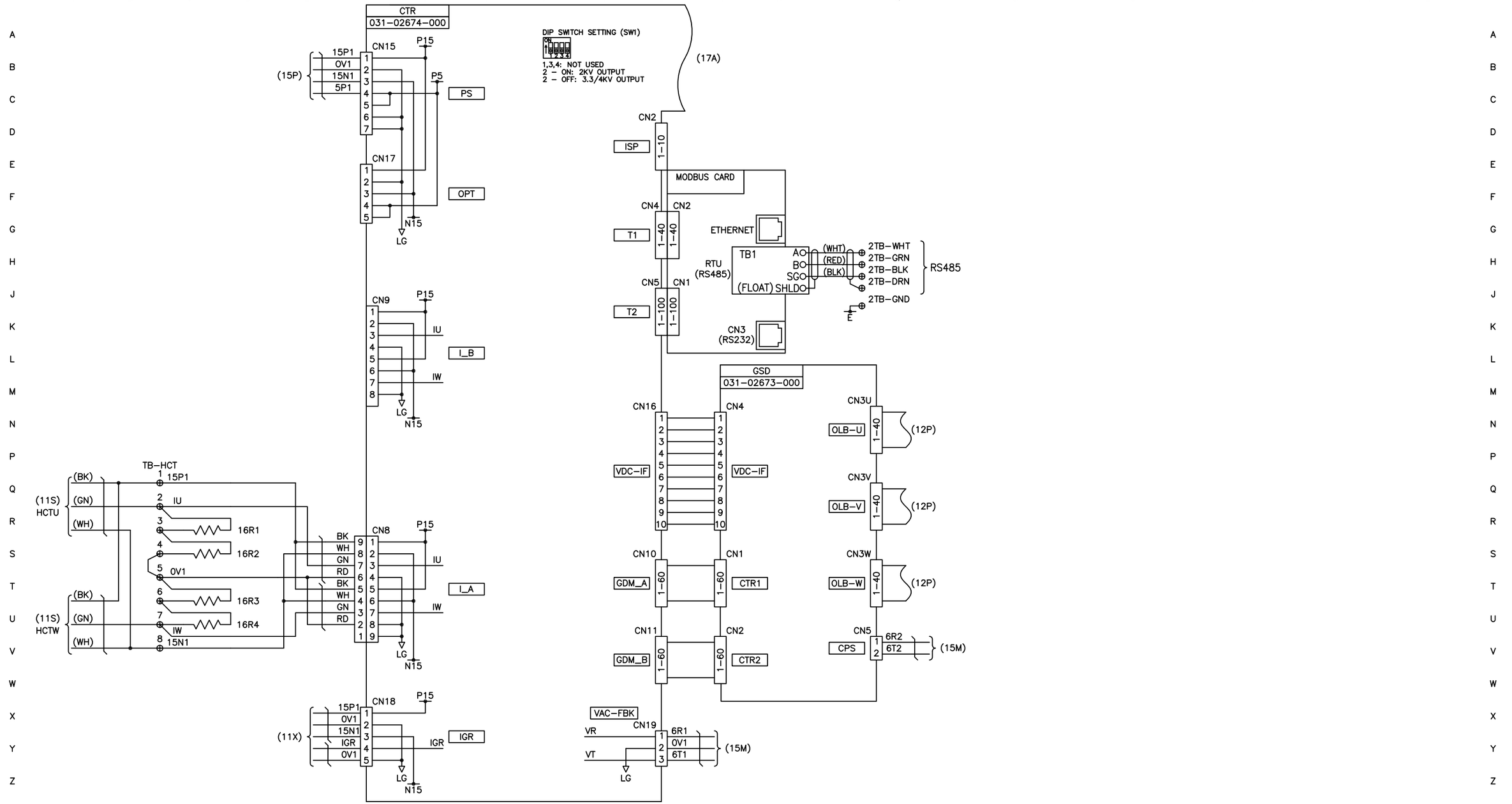
WELDING PER ENG. STD. M-30
REF. DWG.

CONTROL POWER AND FANS CIRCUIT

MATERIAL
TYPE _____ ENG. STD. _____
PART NO. _____
CUT SIZE _____

NAME DATE
DR.
APPR.
SCALE:

SIZE: D
CAGE NO:
DRAWING NUMBER: I808K515
WT. = LBS.
ORIG. NO.
SHEET 8 of 15



REV. LEV.	DATE	REVISION RECORD	CHG. NO.	DR.	CK.
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1	02/05/08	REMOVED 2TB JUMPER & RES		OB	AL
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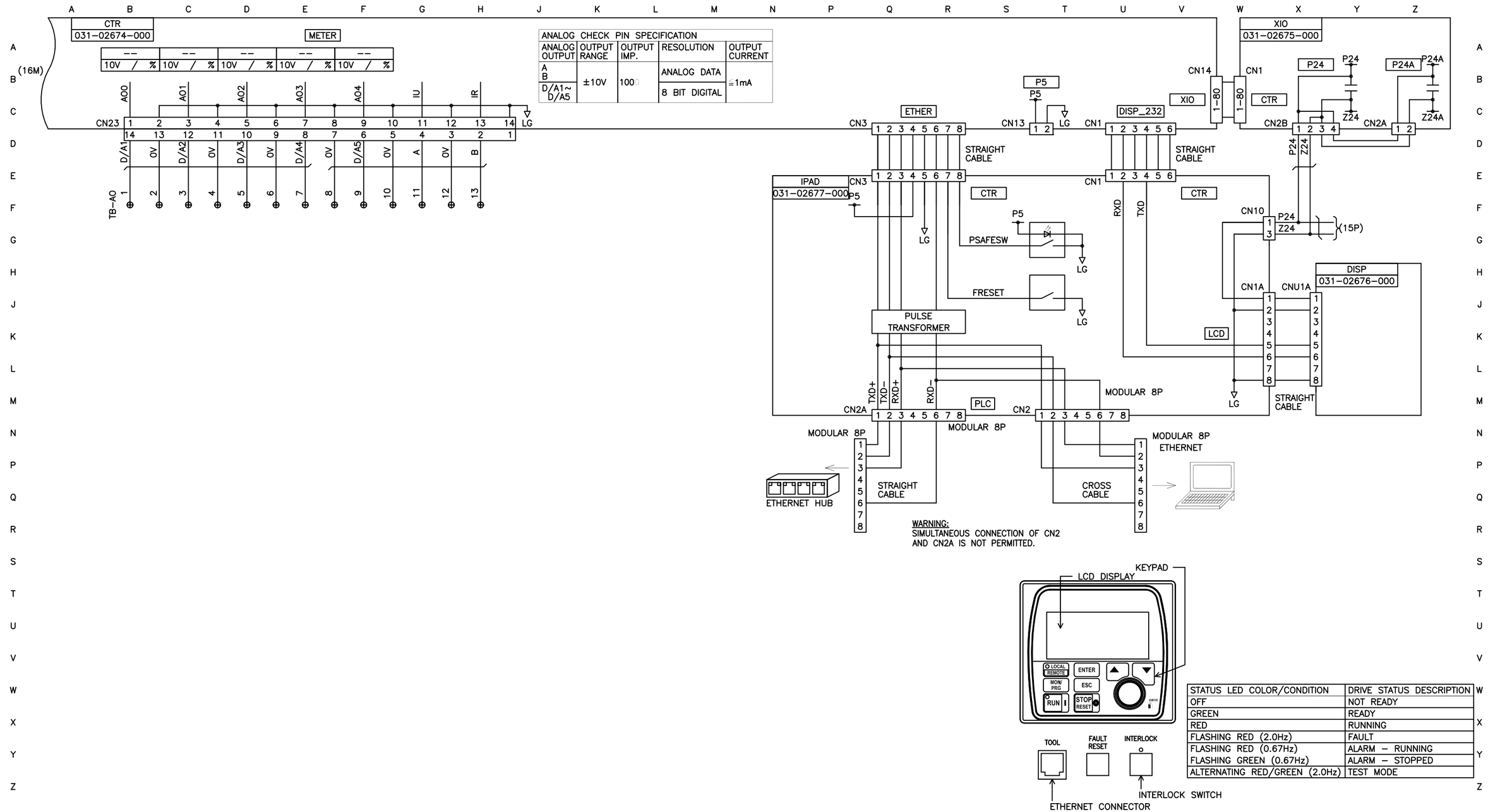
WELDING PER ENG. STD. M-30
REF. DWG.

PCB (1)
INTERCONNECTION

MATERIAL
TYPE _____ ENG. STD. _____
PART NO. _____
CUT SIZE _____

NAME DATE
DR.
APPR.
SCALE:

SIZE: D
CAGE NO:
DRAWING NUMBER: 1808K516
WT. = LBS.
ORIG. NO.
SHEET 9 of 15



STATUS LED COLOR/CONDITION	DRIVE STATUS DESCRIPTION
OFF	NOT READY
GREEN	READY
RED	RUNNING
FLASHING RED (2.0Hz)	FAULT
FLASHING RED (0.67Hz)	ALARM – RUNNING
FLASHING GREEN (0.67Hz)	ALARM – STOPPED
ALTERNATING RED/GREEN (2.0Hz)	TEST MODE

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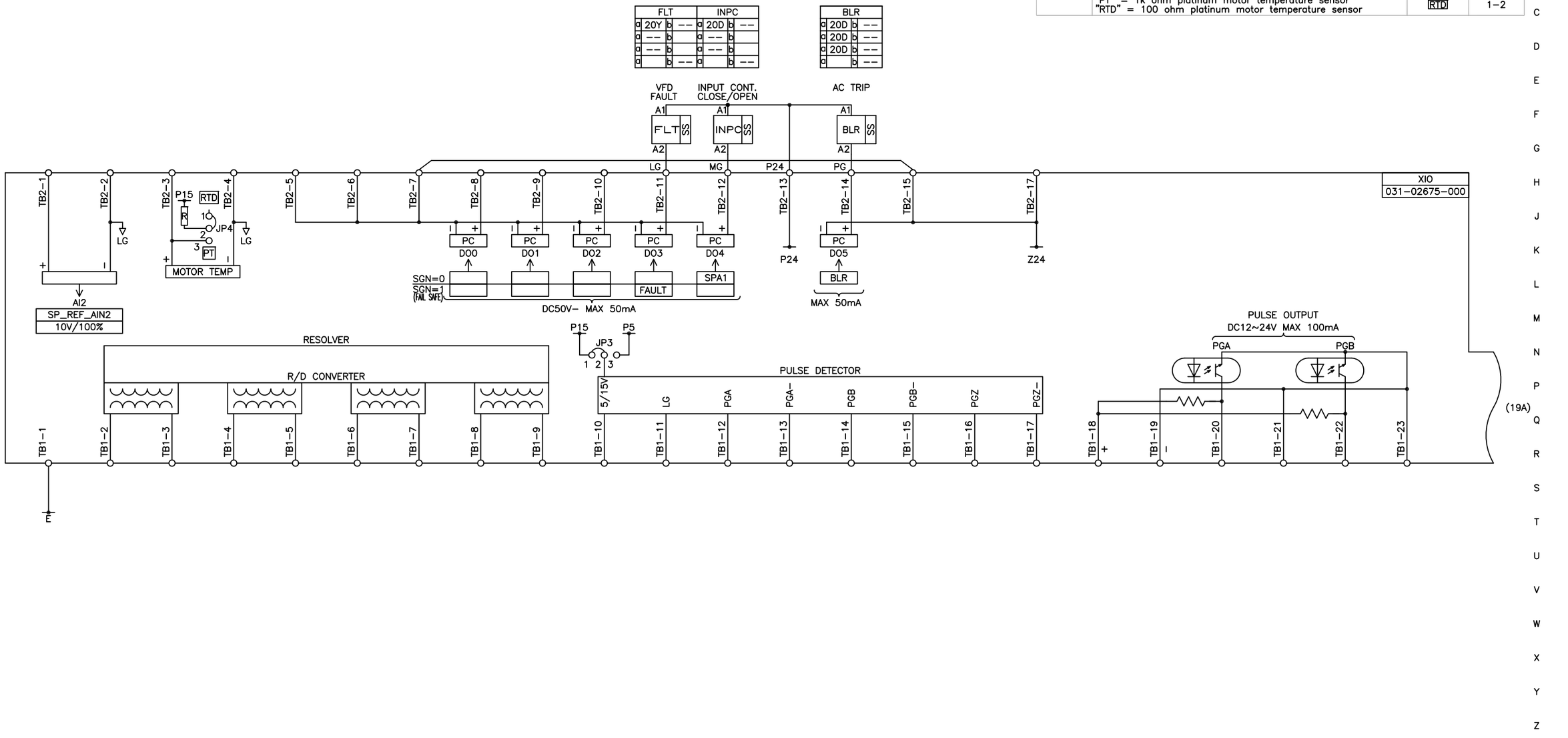
PCB (2)
INTERCONNECTION

MATERIAL
TYPE _____ ENG. STD. ____
PART NO. _____
CUT SIZE _____

NAME DATE
DR. _____
APPR. _____
SCALE: _____

SIZE: D
CAGE NO:
DRAWING NUMBER: I808K517
WT. = LBS.
ORIG. NO.
SHEET 10 of 15

XIO JUMPER SETTINGS			
JUMPER	EXPLANATION	SILKSCREEN	SETTING
JP3	Pulse Generator (PG) power supply level selection. "P15" = +15VDC power supply "P5" = +5VDC power supply	P15	1–2
		P5	2–3
JP4	Motor temperature sensor type selection. External transducer required when using 100 ohm sensor. "PT" = 1k ohm platinum motor temperature sensor "RTD" = 100 ohm platinum motor temperature sensor	PT	2–3
		RTD	1–2



REV. LEV.	DATE	REVISION RECORD	CHG. NO.	DR.	CK.
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0	08/24/06	FIRST ISSUE		OB	AL

REV. LEV.	DATE	REVISION RECORD	CHG. NO.	DR.	CK.
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YORK INTERNATIONAL CORPORATION
YORK , PA . 17405

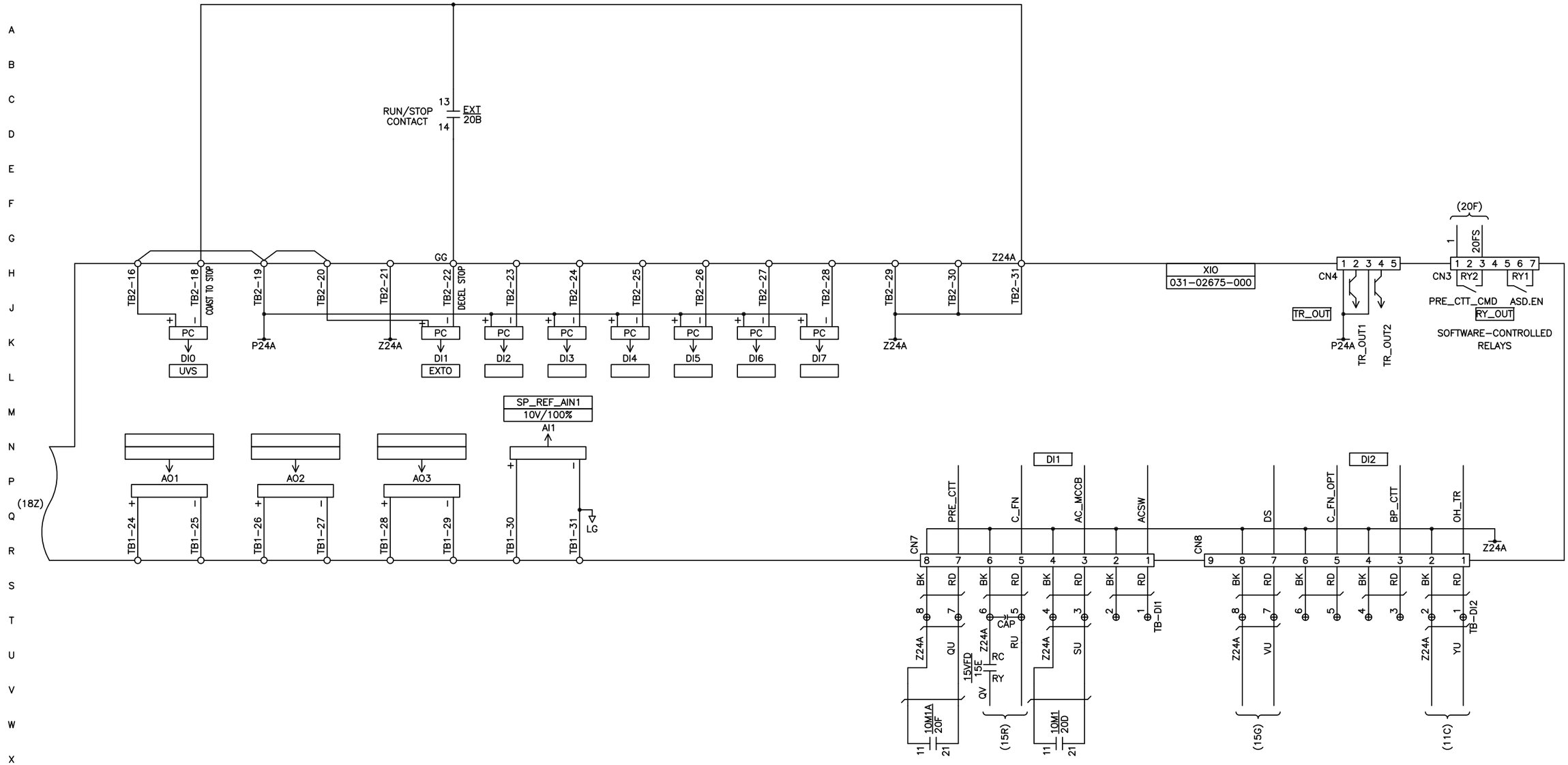
DIMENSIONS ARE IN INCHES
DO NOT SCALE
TOLERANCES PER ENG. STD. M-282
WELDING PER ENG. STD. M-30
REF. DWG.

EXTERNAL I/O (1)

MATERIAL
TYPE _____ ENG. STD. ____
PART NO. _____
CUT SIZE _____

NAME DATE
DR.
APPR.
SCALE:

SIZE: D
CAGE NO:
DRAWING NUMBER: 1808K518
WT. = LBS.
ORIG. NO.
SHEET 11 of 15



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YORK INTERNATIONAL CORPORATION
YORK , PA . 17405

DIMENSIONS ARE IN INCHES
DO NOT SCALE
TOLERANCES PER ENG. STD. M-282
WELDING PER ENG. STD. M-30
REF. DWG.

EXTERNAL I/O (2)

MATERIAL
TYPE _____ ENG. STD. ____
PART NO. _____
CUT SIZE _____

NAME DATE
DR.
APPR.
SCALE:

SIZE D | CAGE NO | DRAWING NUMBER 1808K519

WT. = LBS. | ORIG. NO. | SHEET 12 of 15

VFD START/STOP

INPUT CONTACTOR OPEN/CLOSE

PRE-CHARGED CONTACTOR

1TB-24

BD

RUN/STOP INPUT 115Vac

A1

EXT

A2

1TB-GND

E

115Vac (15M)

13 BLR 18P 14

DC

13 INPC 18M 14

DF

C

10M1CPI 10F

NO

SHOWN WITH 10ISW1 IN CLOSED POSITION

DH

TB-1 VCCT1

TB-2 TB-3 TB-4

DM

23 BLR 18P 24

34 BLR 18P 33

A1 DS

DU

A2 DT

(19Y)

FH

TB-1 VCCT2

TB-2 TB-3 TB-4

A1 FS

DU

A2 FT

1TB-16 YB 13 FLT 18L 14 YC 1TB-53

INVERTER INITIATED STOP CONTACT

EXTERNAL VFD START/STOP RELAY

EXT				
a	19G	b	--	
a		b	--	
a		b	--	
a		b	--	

DRIVE INPUT VCTT

10M1				
a	19S	b	--	
a		b	--	
a		b	--	
a	--	b		
a	--	b		
a	--	b		

PRE-CHARGE SHORTING VCTT

10M1A				
a	19Q	b	--	
a		b	--	
a		b	--	
a	--	b		
a	--	b		
a	--	b		

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YORK , PA . 17405

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DO NOT SCALE
TOLERANCES PER ENG. STD. M-282
WELDING PER ENG. STD. M-30
REF. DWG.

CONTROL CIRCUIT

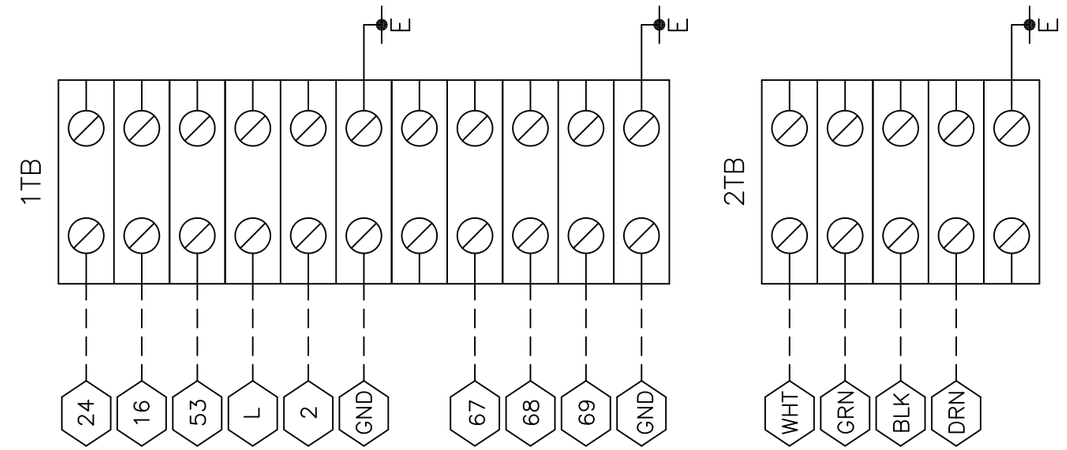
MATERIAL
TYPE _____ ENG. STD. ____
PART NO. _____
CUT SIZE _____

NAME DATE
DR.
APPR.
SCALE:

SIZE D | CAGE NO | DRAWING NUMBER I808K520

WT. = LBS. | ORIG. NO. | SHEET 13 of 15

CHILLER SYSTEM INTERFACE



CUSTOMER TERMINAL BLOCK

REV. LEV.	DATE	REVISION RECORD	CHG. NO.	DR.	CK.
6					
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1	02/15/08	REMOVED 2TB JUMPER		OB	AL
0	08/24/06	FIRST ISSUE		OB	AL

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WELDING PER ENG. STD. M-30
REF. DWG.

YORK INTERNATIONAL CORPORATION
YORK , PA . 17405

CHILLER SYSTEM TERMINAL CONNECTIONS

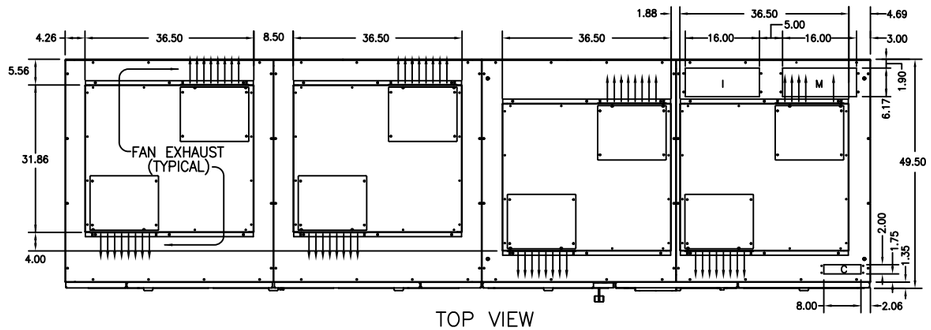
MATERIAL
TYPE _____ ENG. STD. ____
PART NO. _____
CUT SIZE _____

NAME DATE
DR. _____
APPR. _____
SCALE: _____

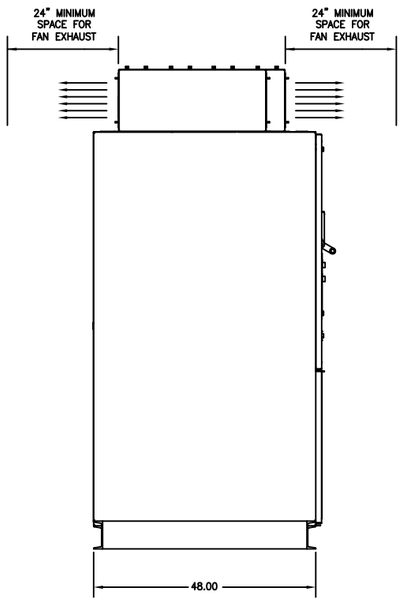
SIZE D | CAGE NO | DRAWING NUMBER I808K528

WT. = LBS. | ORIG. NO. | SHEET 14 of 15

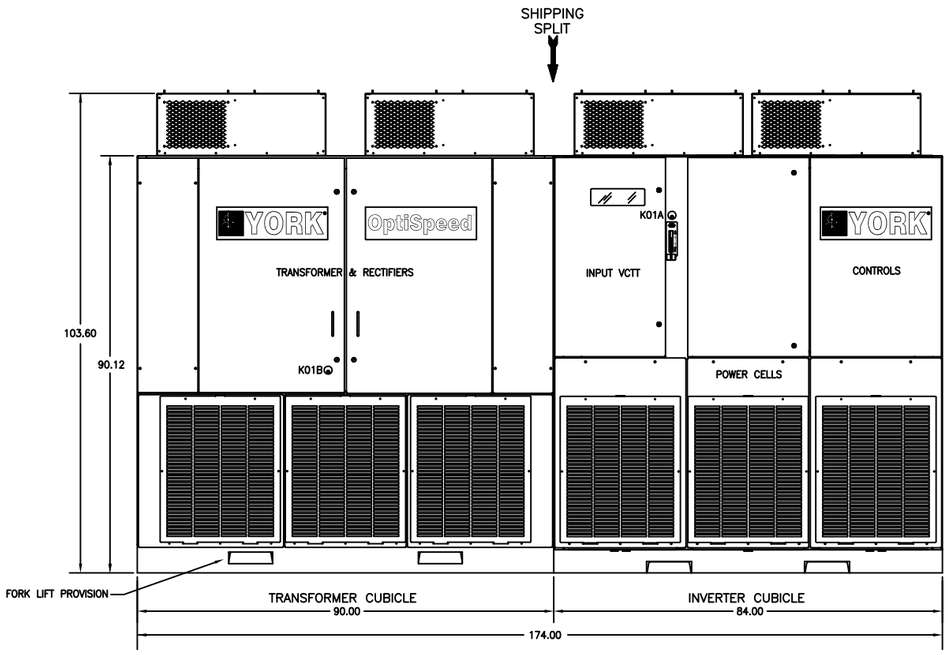
CABLE TERMINATIONS			
ENTRY	INCOMING CABLES	MOTOR LEADS	CONTROL WIRE
TOP	I	M	C
BOTTOM	I	M	C
INCOMING TERMINATIONS USE NEMA 4-HOLE PATTERN MOTOR TERMINATIONS USE NEMA 4-HOLE PATTERN			



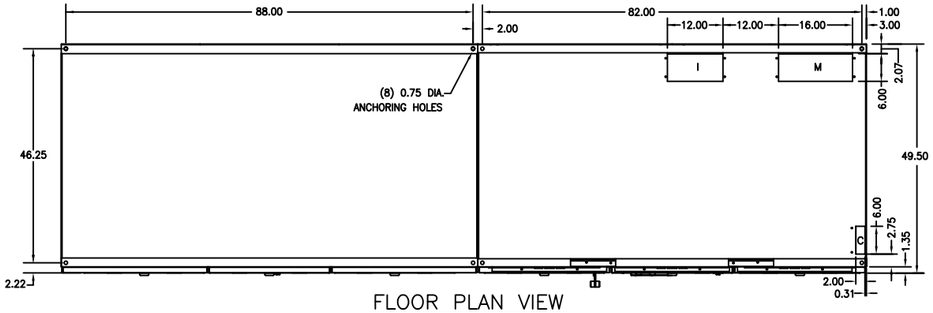
TOP VIEW



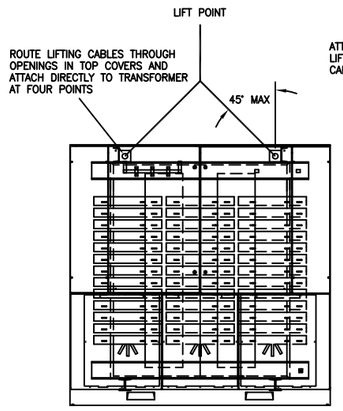
LH VIEW



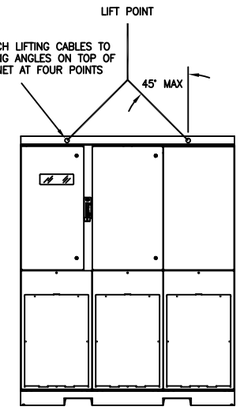
FRONT VIEW



FLOOR PLAN VIEW



ALTERNATE LIFTING METHOD
TRANSFORMER CUBICLE
(FANS REMOVED)



ALTERNATE LIFTING METHOD
INVERTER CUBICLE
(FANS REMOVED)

NOTES
1. ENCLOSURE TYPE: NEMA 1 W/GASKETED DOORS
2. ALL WEIGHTS ARE APPROXIMATE IN LBS
3. ALL DIMS ARE IN INCHES
4. POWER CELLS NEED TO BE REMOVED FOR ACCESS

	2250HP	2500HP
TRANSFORMER CUBICLE	12,700 lbs	13,500 lbs
INVERTER CUBICLE	5,500 lbs	5,500 lbs

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YORK INTERNATIONAL CORPORATION
YORK, PA. 17405

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TOLERANCES PER ENG. STD. M-282
WELDING PER ENG. STD. M-30
REF. DWG.

OUTLINE ENCLOSURE

MATERIAL
TYPE _____ ENG. STD. _____
PART NO. _____
CUT SIZE _____

NAME DATE
DR.
APPR.
SCALE:

SIZE D | CAGE NO | DRAWING NUMBER 1808K530

WT. = LBS. | ORIG. NO. | SHEET 15 of 15