

NOTE: NEUTRAL TO BE GROUNDED AT SOURCE

- ① GDB2-2 to 131
- ② TO HTR-401
- ③ TO HTR-402
- ④ TO HTR-403
- ⑤ TO HTR-404
- ⑥ TO HTR-501
- ⑦
- ⑧
- ⑨
- ⑩

- GROUND BAR COMPRESSOR SUMP OIL HEATER #1
- COMPRESSOR SUMP OIL HEATER #2
- COMPRESSOR SEAL OIL RESERVOIR HEATER
- COMPRESSOR OIL RECOVERY TANK HEATER
- GEAR SUMP OIL HEATER

REV	ECN	DESCRIPTION	DATE	DR	APP
E		CHANGES PER CUSTOMER REQUEST	03/24/10	DLB	JAT
F		AS BUILT CHANGES (FEAN 2)	09/29/09	DLB	JAT
C		ADDITIONAL AS BUILT CHANGES	03/02/10	DLB	JAT
D		CHANGES PER TRAIN 2			

SANDRIDGE ENERGY		NOTICE TO PURCHASER: REFER TO CONTRACT FOR MATERIAL TO BE SUPPLIED BY JCI/YORK. THE AMOUNT OF SUCH MATERIAL IS NOT INCREASED BY ANYTHING SHOWN UPON THIS DRAWING.	
PURCHASER: 1601 N.W. EXPRESSWAY SUITE 1600		PURCH ORDER NO. 271607-P-13-012(C)	
OKLAHOMA CITY, OK 73118			
YORK ORDER NO. 294100			

TITLE: YPS - PLC CONTROL SYSTEM		SHEET DETAIL	
PLC CONTROL PANEL ASSEMBLY & WIRING DIAGRAM		REV F	
AC POWER WIRING		OF 40	
SIZE: D	DATE CODE: 23587	DRG NO: 645D1279	
SCALE: 1"			

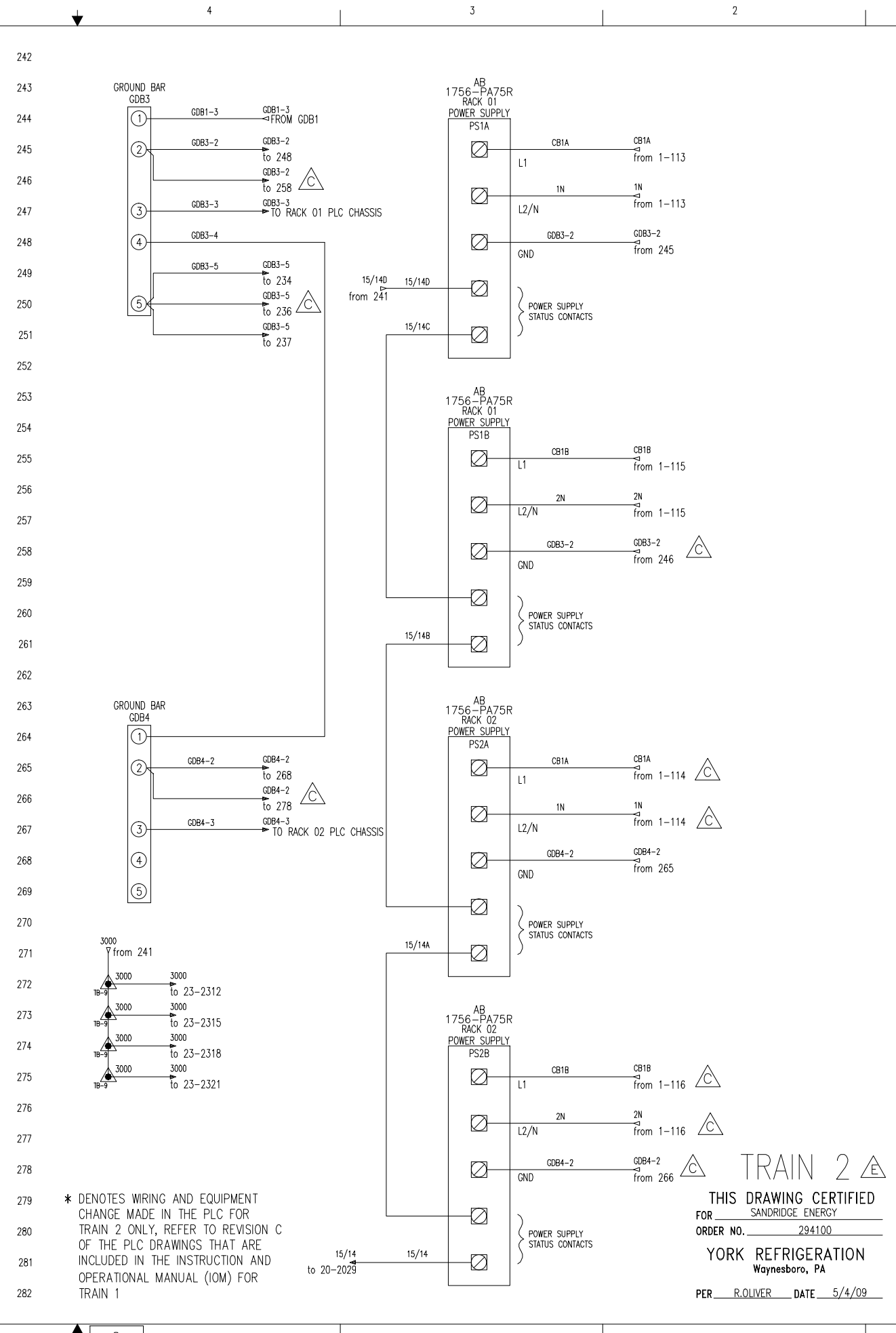
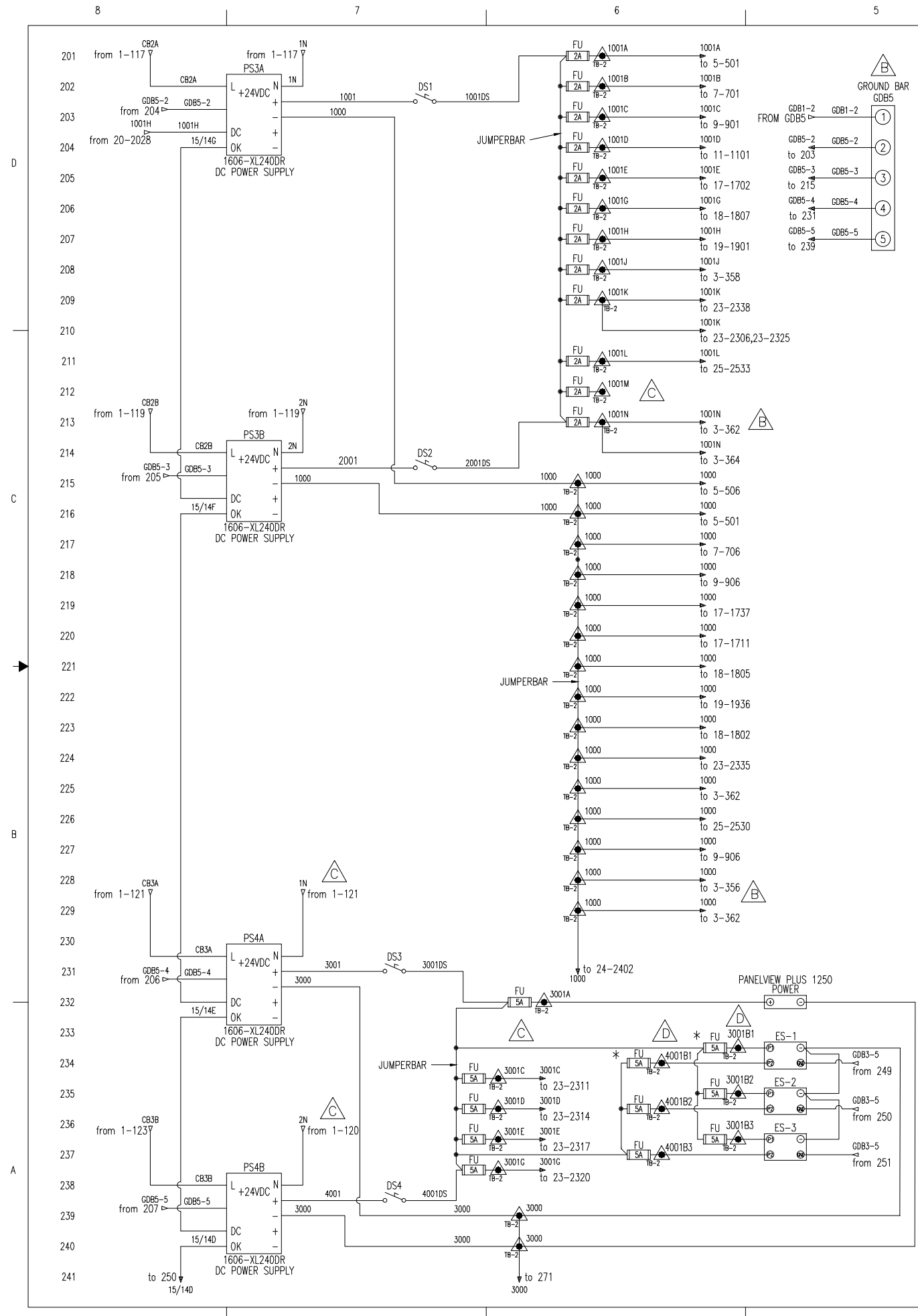
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES DO NOT SCALE	DATE: 01/23/09	SCALE: ± 1/2"
DESIGNER: J. COOK	DATE: 04/08/09	SCALE: ± 1/4"
APP'D: R. OLIVER	DATE: 04/08/09	SCALE: ± 1/4"
CODE:		

* DENOTES WIRING AND EQUIPMENT CHANGE MADE IN THE PLC FOR TRAIN 2 ONLY, REFER TO REVISION C OF THE PLC DRAWINGS THAT ARE INCLUDED IN THE INSTRUCTION AND OPERATIONAL MANUAL (10M) FOR TRAIN 1

TRAIN 2
 THIS DRAWING CERTIFIED FOR SANDRIDGE ENERGY
 ORDER NO. 294100
 YORK REFRIGERATION
 Waynesboro, PA
 PER R. OLIVER DATE 5/4/09



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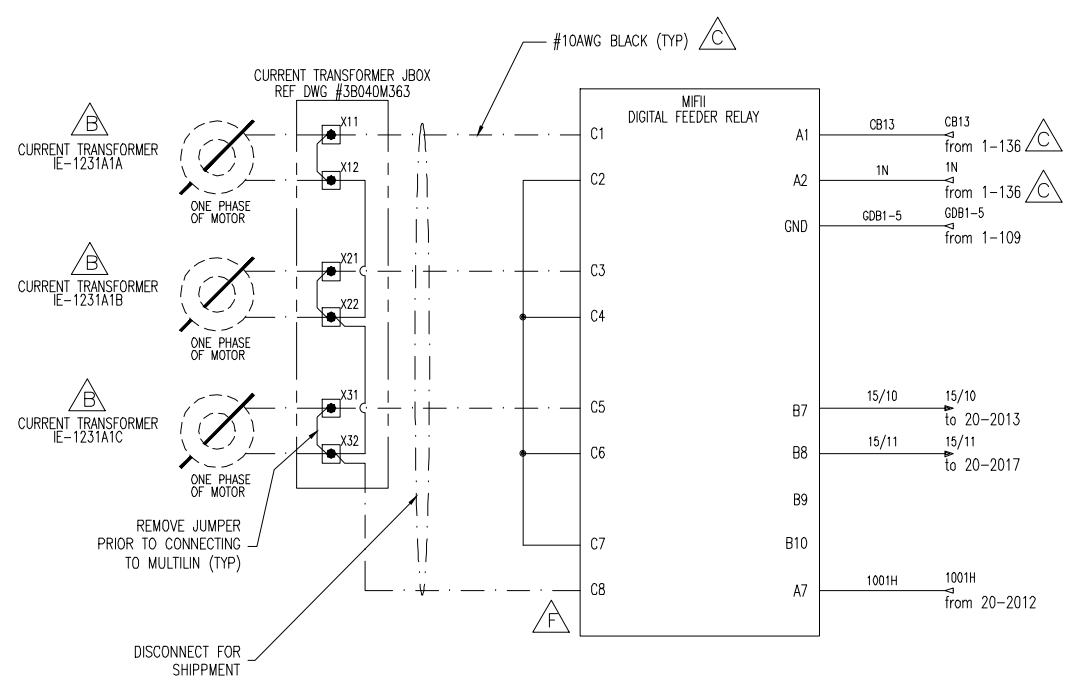
THIS DRAWING CERTIFIED
 FOR SANDRIDGE ENERGY
 ORDER NO. 294100
 YORK REFRIGERATION
 Waynesboro, PA
 PER R. OLIVER DATE 5/4/09

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES DO NOT SCALE		DATE CODE		REV	
DRAWING NO. 645D1279		D 23587		F	
SHEET DETAIL		DC POWER WIRING		SHEET 2 OF 40	
TITLE		YPS - PLC CONTROL SYSTEM		PLC CONTROL PANEL ASSEMBLY & WIRING DIAGRAM	
PURCHASER		SANDRIDGE ENERGY		1601 N.W. EXPRESSWAY SUITE 1600 OKLAHOMA CITY, OK 73118	
PURCH ORDER NO.		294100		PURCH ORDER NO. 271607-P-13-0121C1	
DRAWN BY		R. OLIVER		DATE	
CHECKED BY		J. COOK		DATE	
APPROVED BY		R. OLIVER		DATE	
SCALE		1/4" = 1"		AS SHOWN	
PROJECT NO.		645D1279		REV	
SHEET NO.		2		OF 40	
DATE		01/23/09		04/08/09	
BY		R. OLIVER		DATE	
CHECKED BY		J. COOK		DATE	
APPROVED BY		R. OLIVER		DATE	

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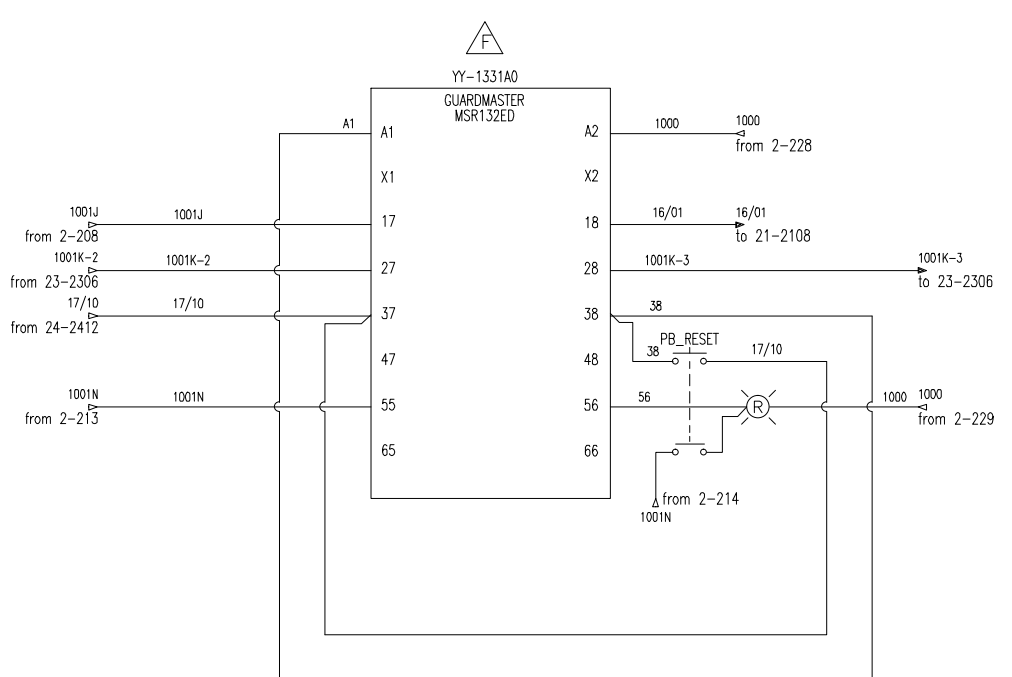
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Johnson Controls
 YORK Process Systems
 100 CV ME P.O. BOX 997 Waynesboro, PA 17268



CAUTION: FORK OR RING TERMINALS MUST BE USED ON THE MIFII TERMINAL BLOCK

NOTE: MIFII DIGITAL FEEDER RELAY TO BE PROGRAMMED BY CUSTOMER (AS DIRECTED). ALL DELAYS SET AT 1 SECOND.



TRAIN 2

THIS DRAWING CERTIFIED
FOR SANDRIDGE ENERGY
ORDER NO. 294100
YORK REFRIGERATION
Waynesboro, PA
PER R. OLIVER DATE 5/4/09

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES DO NOT SCALE

UNLESS OTHERWISE SPECIFIED TOLERANCES PER ASME Y14.5

DEC 2% ± 0.01
DIM. 1/16 ± 0.005
DIM. 1/8 ± 0.005
DIM. 1/4 ± 0.005
DIM. 3/8 ± 0.005
DIM. 1/2 ± 0.005
DIM. 3/4 ± 0.005
DIM. 1 ± 0.005
DIM. 1 1/4 ± 0.005
DIM. 1 1/2 ± 0.005
DIM. 2 ± 0.005
DIM. 3 ± 0.005
DIM. 4 ± 0.005
DIM. 6 ± 0.005
DIM. 8 ± 0.005
DIM. 10 ± 0.005

DATE CODE 23587
REV F
SHEET 3 OF 40

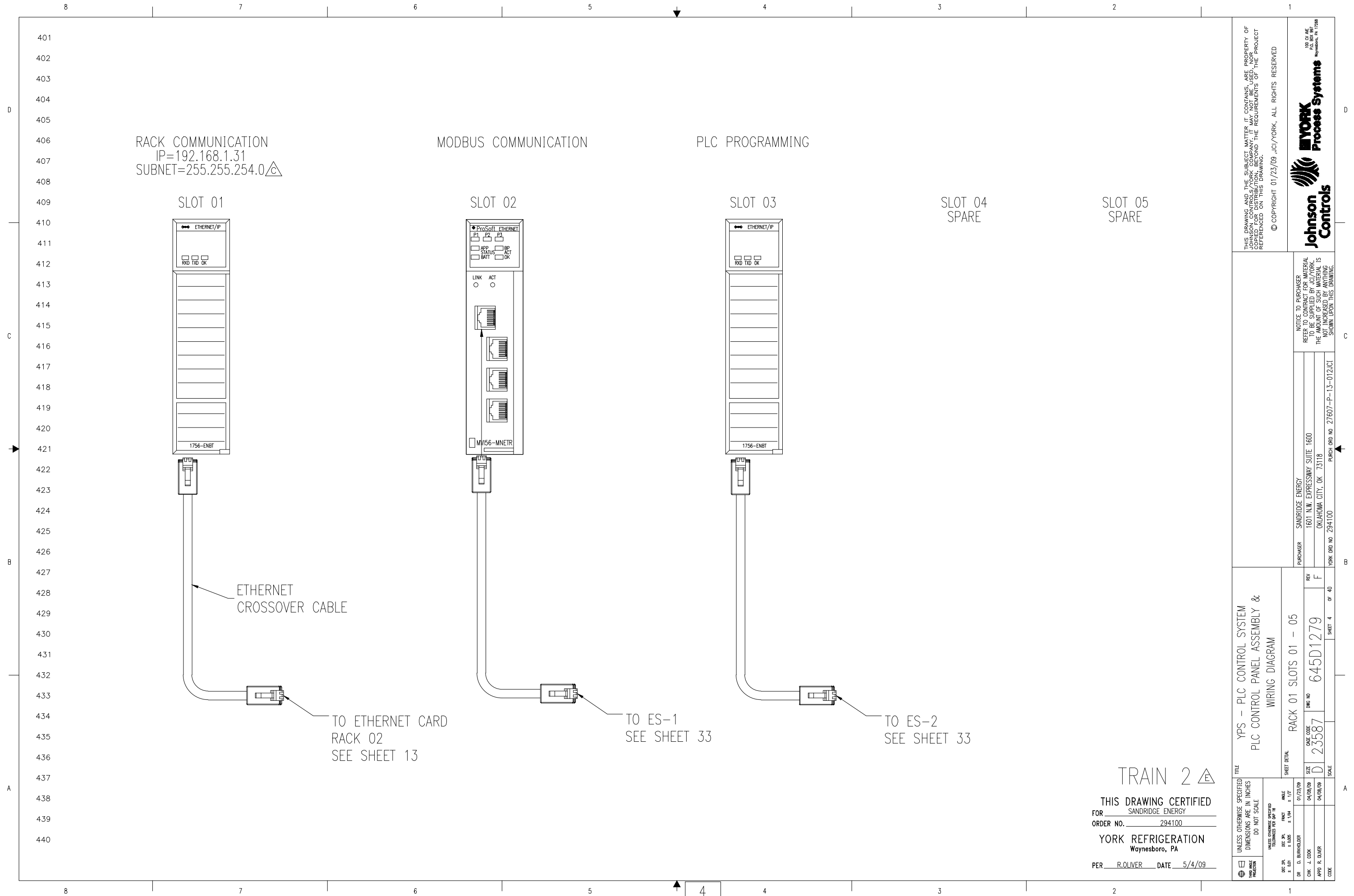
YPS - PLC CONTROL SYSTEM
PLC CONTROL PANEL ASSEMBLY &
WIRING DIAGRAM
RELAY WIRING
DWG NO 645D1279

PURCHASER SANDRIDGE ENERGY
1601 N.W. EXPRESSWAY SUITE 1600
OKLAHOMA CITY, OK 73118
PURCH ORDER NO 294100

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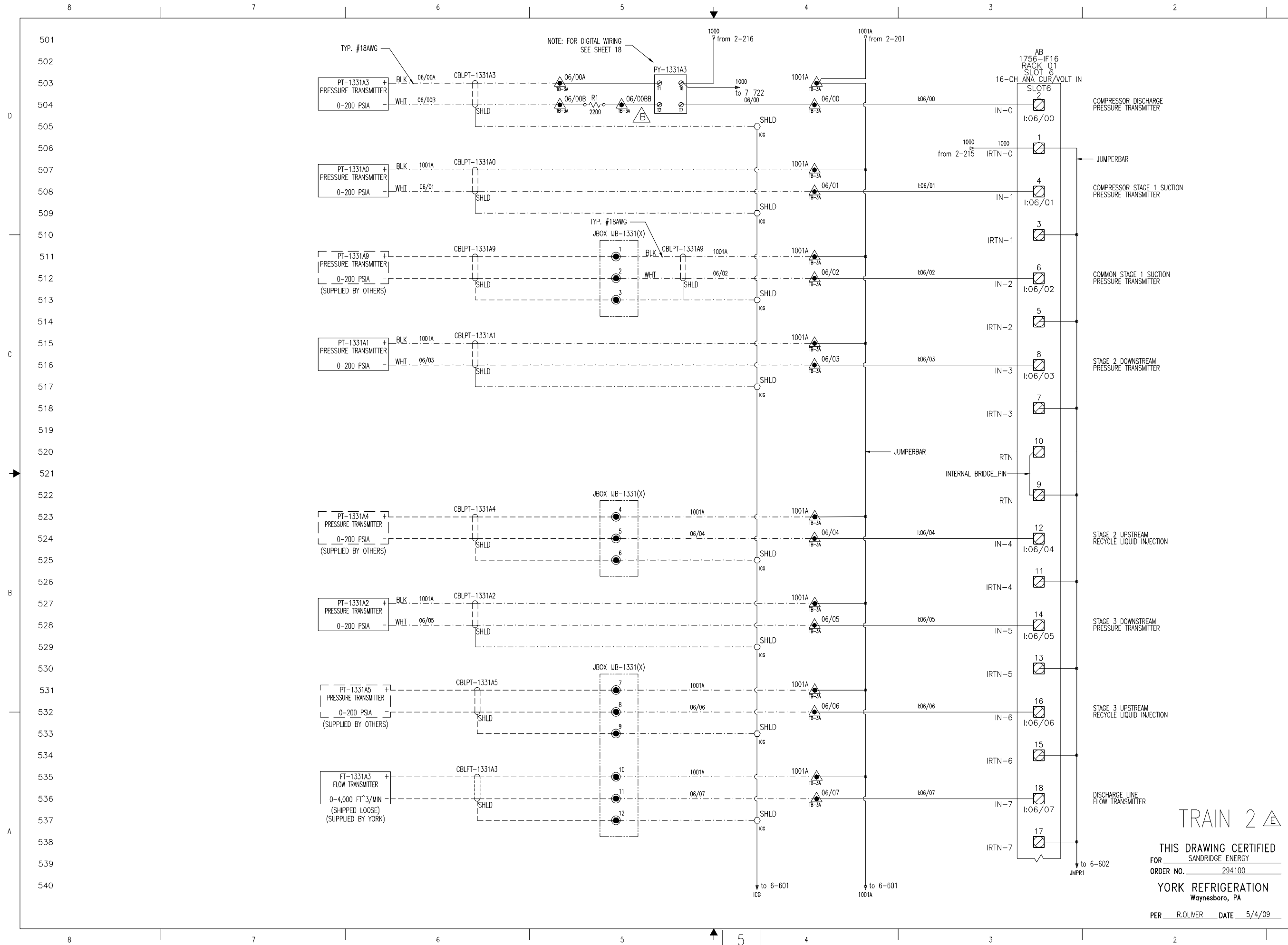
JOHNSON Controls
Process Systems
100 BY ME
P.O. BOX 997
Waynesboro, PA 17268



TRAIN 2

THIS DRAWING CERTIFIED
 FOR SANDRIDGE ENERGY
 ORDER NO. 294100
 YORK REFRIGERATION
 Waynesboro, PA
 PER R. OLIVER DATE 5/4/09

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NOTICE TO PURCHASER: REFER TO CONTRACT FOR MATERIAL TO BE SUPPLIED BY JCI/YORK. THE AMOUNT OF SUCH MATERIAL IS NOT INCREASED BY ANYTHING SHOWN UPON THIS DRAWING.		PURCHASER: SANDRIDGE ENERGY 1601 N.W. EXPRESSWAY SUITE 1600 OKLAHOMA CITY, OK 73118 PURCH ORDER NO. 294100	
TITLE YPS - PLC CONTROL SYSTEM PLC CONTROL PANEL ASSEMBLY & WIRING DIAGRAM		SHEET DETAIL RACK 01 SLOTS 01 - 05	
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES DO NOT SCALE DECIMALS: ± 0.01 FRACTIONS: ± 1/64 ANGLES: ± 1/2°		CASE CODE D 23587	REV F
DR. D. BURKHOLDER CHK. J. COOK APP'D R. OLIVER CODE	DATE 04/08/09	DWG NO. 645D1279	SHEET 4 OF 40



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PURCHASER	SANDRIDGE ENERGY
1601 N.W. EXPRESSWAY SUITE 1600	OKLAHOMA CITY, OK 73118
PURCH ORDER NO. 27607-P-13-012/CI	
PURCH ORDER NO. 294100	

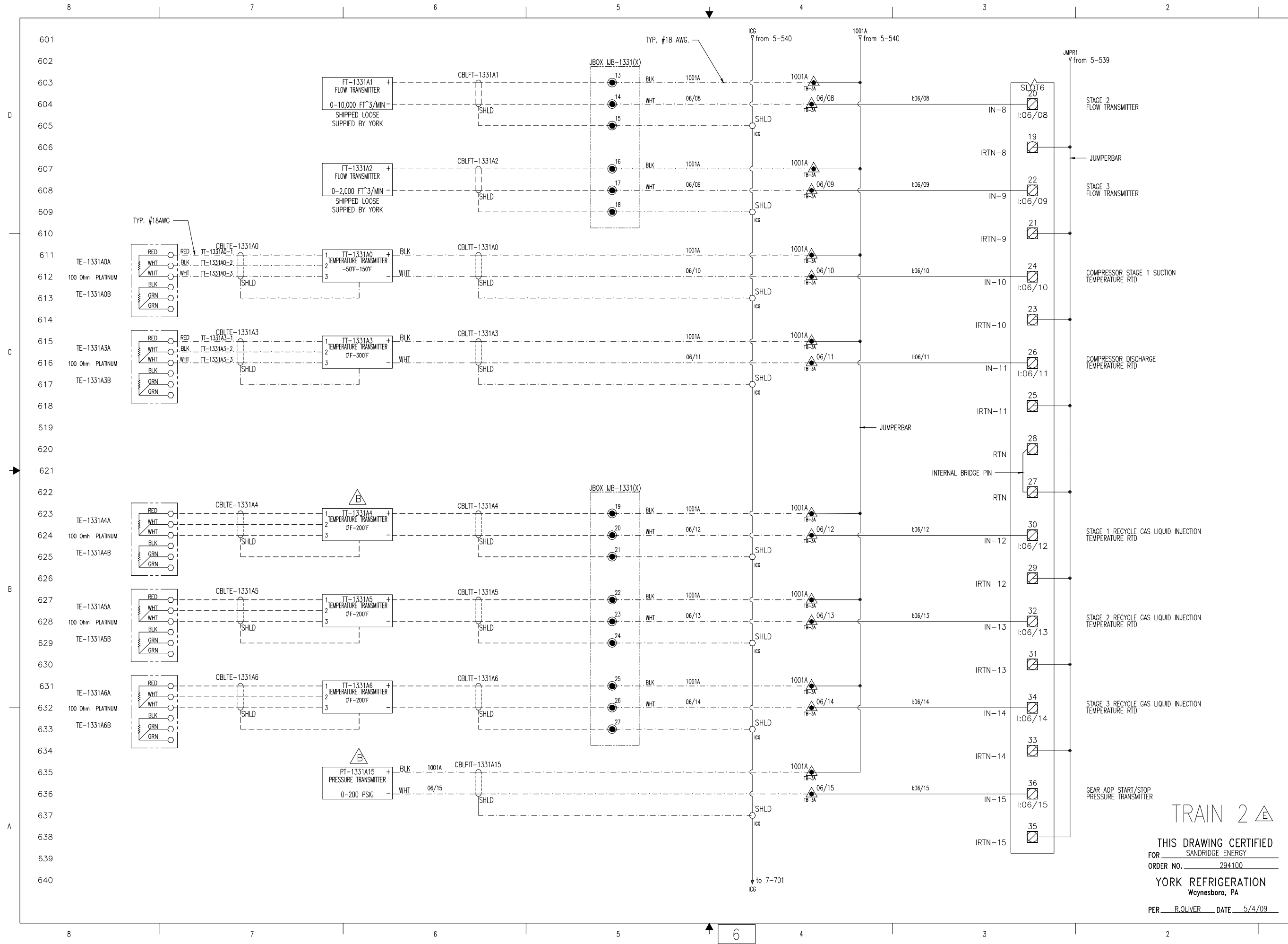
TITLE
YPS - PLC CONTROL SYSTEM
PLC CONTROL PANEL ASSEMBLY &
WIRING DIAGRAM

SHEET 5	OF 40
REV	F
DATE CODE	645D1279
SIZE	D 23587
SCALE	

TRAIN 2 Δ

THIS DRAWING CERTIFIED
FOR SANDRIDGE ENERGY
ORDER NO. 294100
YORK REFRIGERATION
Waynesboro, PA
PER R. OLIVER DATE 5/4/09

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES DO NOT SCALE	UNLESS OTHERWISE SPECIFIED TOLERANCES PER ASME Y14.5
DEC. 2ND ± 0.01	DEC. 2ND ± 0.005
DEC. 3RD ± 0.005	DEC. 3RD ± 0.0025
DEC. 4TH ± 0.0025	DEC. 4TH ± 0.00125
DEC. 5TH ± 0.00125	DEC. 5TH ± 0.000625
DEC. 6TH ± 0.000625	DEC. 6TH ± 0.0003125
DEC. 7TH ± 0.0003125	DEC. 7TH ± 0.00015625
DEC. 8TH ± 0.00015625	DEC. 8TH ± 0.000078125
DEC. 9TH ± 0.000078125	DEC. 9TH ± 0.0000390625
DEC. 10TH ± 0.0000390625	DEC. 10TH ± 0.00001953125
DEC. 11TH ± 0.00001953125	DEC. 11TH ± 0.000009765625
DEC. 12TH ± 0.000009765625	DEC. 12TH ± 0.0000048828125
DEC. 13TH ± 0.0000048828125	DEC. 13TH ± 0.00000244140625
DEC. 14TH ± 0.00000244140625	DEC. 14TH ± 0.000001220703125
DEC. 15TH ± 0.000001220703125	DEC. 15TH ± 0.0000006103515625
DEC. 16TH ± 0.0000006103515625	DEC. 16TH ± 0.00000030517578125
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DEC. 18TH ± 0.000000152587890625	DEC. 18TH ± 0.0000000762939453125
DEC. 19TH ± 0.0000000762939453125	DEC. 19TH ± 0.00000003814697265625
DEC. 20TH ± 0.00000003814697265625	DEC. 20TH ± 0.000000019073486328125
DEC. 21ST ± 0.000000019073486328125	DEC. 21ST ± 0.0000000095367431640625
DEC. 22ND ± 0.0000000095367431640625	DEC. 22ND ± 0.00000000476837158203125
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DEC. 24TH ± 0.000000002384185791015625	DEC. 24TH ± 0.0000000011920928955078125
DEC. 25TH ± 0.0000000011920928955078125	DEC. 25TH ± 0.000000005960464477765625
DEC. 26TH ± 0.000000005960464477765625	DEC. 26TH ± 0.0000000029802322388828125
DEC. 27TH ± 0.0000000029802322388828125	DEC. 27TH ± 0.00000000149011611944140625
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DEC. 30TH ± 0.0000000003725290298603515625	DEC. 30TH ± 0.00000000018626451493017578125



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PURCHASER: SANDRIDGE ENERGY
1601 N.W. EXPRESSWAY SUITE 1600
OKLAHOMA CITY, OK 73118
PURCH ORDER NO. 27607-P-13-012/CI

YORK REFRIGERATION
Woyneboro, PA

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES DO NOT SCALE

DATE CODE: 23587
DWG NO: 645D1279
REV: F

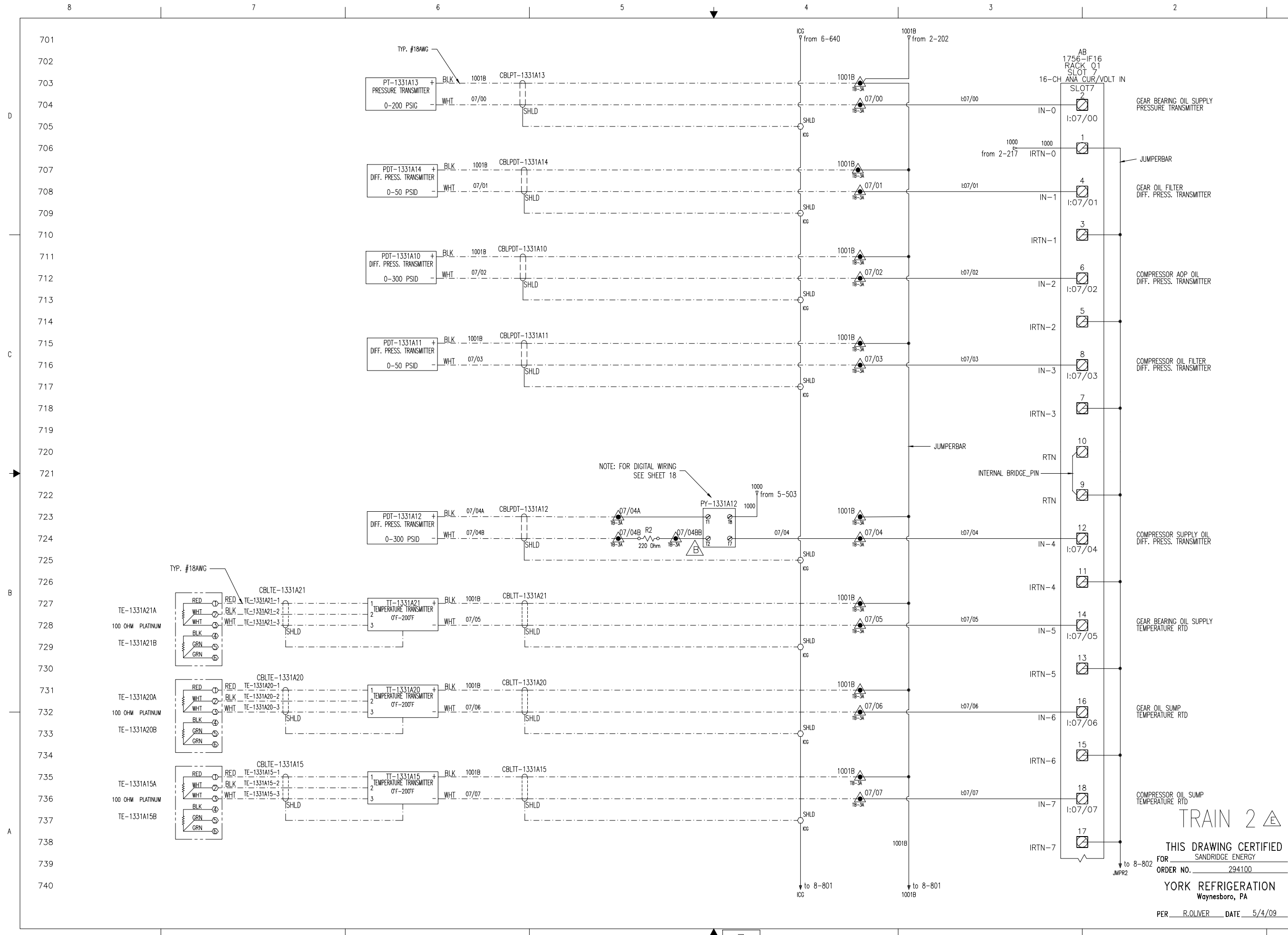
SIZE: D
SCALE: AS SHOWN

SHEET 6 OF 40

TRAIN 2

THIS DRAWING CERTIFIED FOR SANDRIDGE ENERGY ORDER NO. 294100 YORK REFRIGERATION Woyneboro, PA PER R. OLIVER DATE 5/4/09

TITLE: YPS - PLC CONTROL SYSTEM
PLC CONTROL PANEL ASSEMBLY & WIRING DIAGRAM
RACK 01 SLOT 06 - ANALOG INPUTS



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PURCHASER: SANDRIDGE ENERGY
 1601 N.W. EXPRESSWAY SUITE 1600
 OKLAHOMA CITY, OK 73118
 PURCH ORDER NO. 271607-P-13-0123C1

REV F
 CASE CODE D 23587
 DRAWING NO. 645D1279
 SHEET 7 OF 40

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES DO NOT SCALE

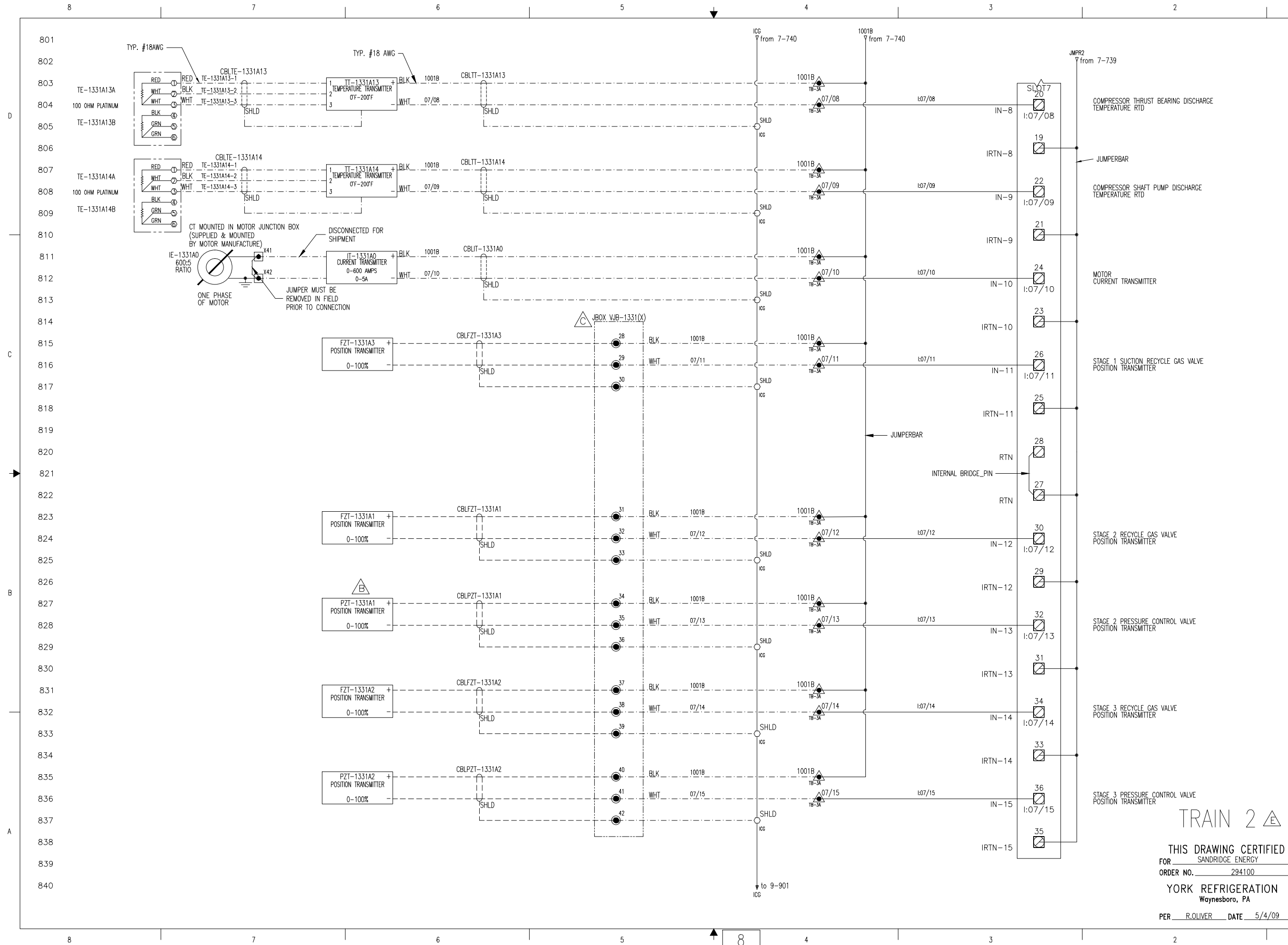
UNLESS OTHERWISE SPECIFIED TOLERANCES PER ASME

DATE	01/23/09	SCALE	1/2"
BY	J. COOK	DATE	04/08/09
APP'D	R. OLIVER	DATE	04/08/09

TITLE: YPS - PLC CONTROL SYSTEM
 PLC CONTROL PANEL ASSEMBLY & WIRING DIAGRAM
 SHEET 7 OF 40

TRAIN 2

THIS DRAWING CERTIFIED FOR SANDRIDGE ENERGY
 ORDER NO. 294100
 YORK REFRIGERATION Waynesboro, PA
 PER R. OLIVER DATE 5/4/09



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PURCHASER: SANDRIDGE ENERGY
 1601 N.W. EXPRESSWAY SUITE 1600
 OKLAHOMA CITY, OK 73118
 PURCH ORDER NO: 294100

TITLE: YPS - PLC CONTROL SYSTEM
 PLC CONTROL PANEL ASSEMBLY & WIRING DIAGRAM

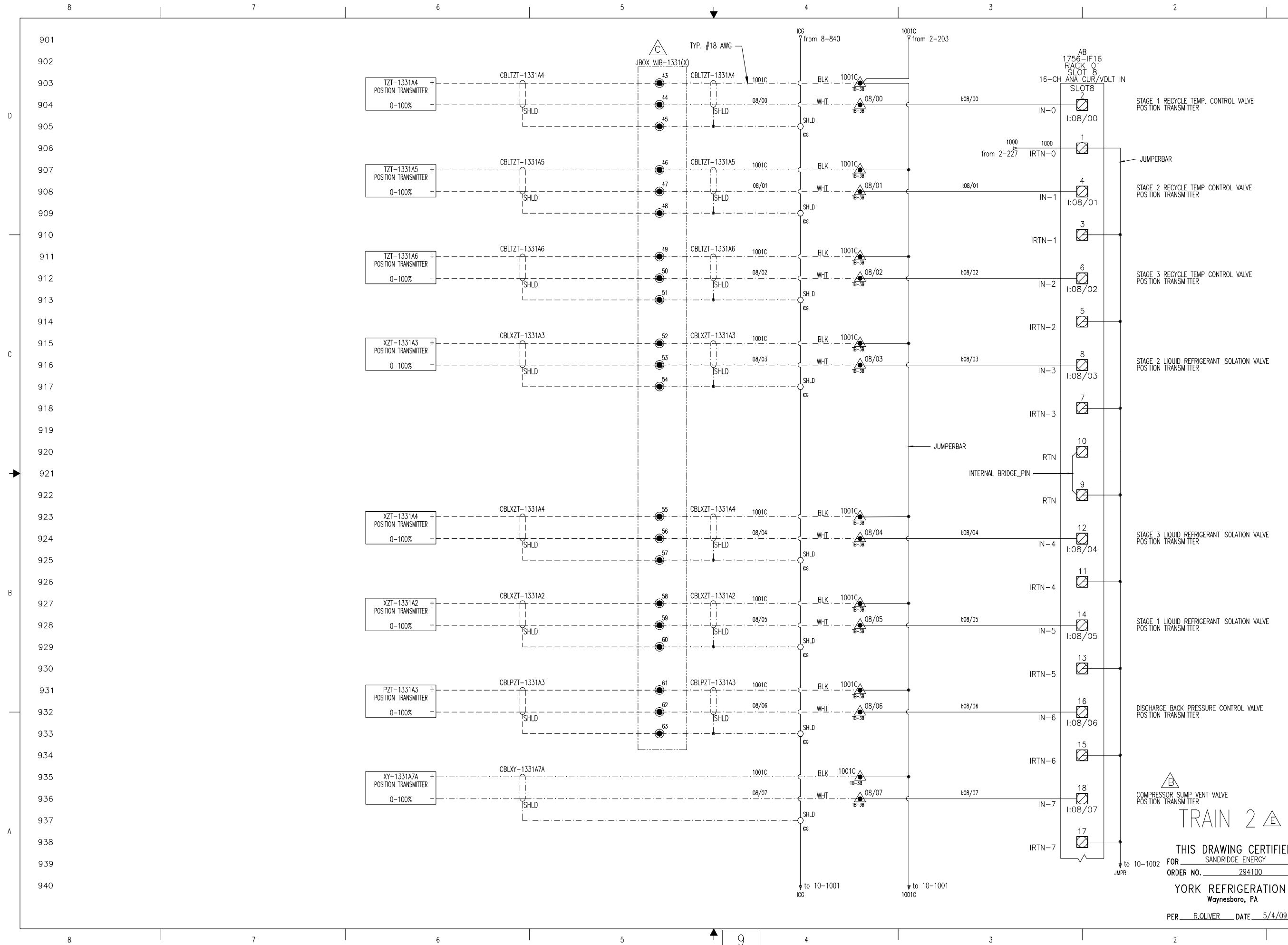
SHEET 8 OF 40
 RACK 01 SLOT 07 - ANALOG INPUTS
 DRAWING NO: 645D1279
 SIZE: D
 DATE CODE: 23587
 REV: F

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES DO NOT SCALE

DATE: 01/23/09
 DRAWN BY: JCI
 CHECKED BY: JCI
 APPROVED BY: JCI

TRAIN 2

THIS DRAWING CERTIFIED FOR SANDRIDGE ENERGY
 ORDER NO. 294100
 YORK REFRIGERATION Waynesboro, PA
 PER R. OLIVER DATE 5/4/09



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Waynesboro, PA 17268

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PURCHASER: SANDRIDGE ENERGY
1601 N.W. EXPRESSWAY SUITE 1600
OKLAHOMA CITY, OK 73118
PURCH ORDER NO. 27607-P-13-0123C1

YORK ORDER NO. 294100

**YPS - PLC CONTROL SYSTEM
PLC CONTROL PANEL ASSEMBLY &
WIRING DIAGRAM**

SHEET 9 OF 40

RACK 01 SLOT 08 - ANALOG INPUTS

REV F

DATE CODE 23587

SIZE D

SCALE 645D1279

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES DO NOT SCALE

UNLESS OTHERWISE SPECIFIED TOLERANCES PER ASME Y14.5

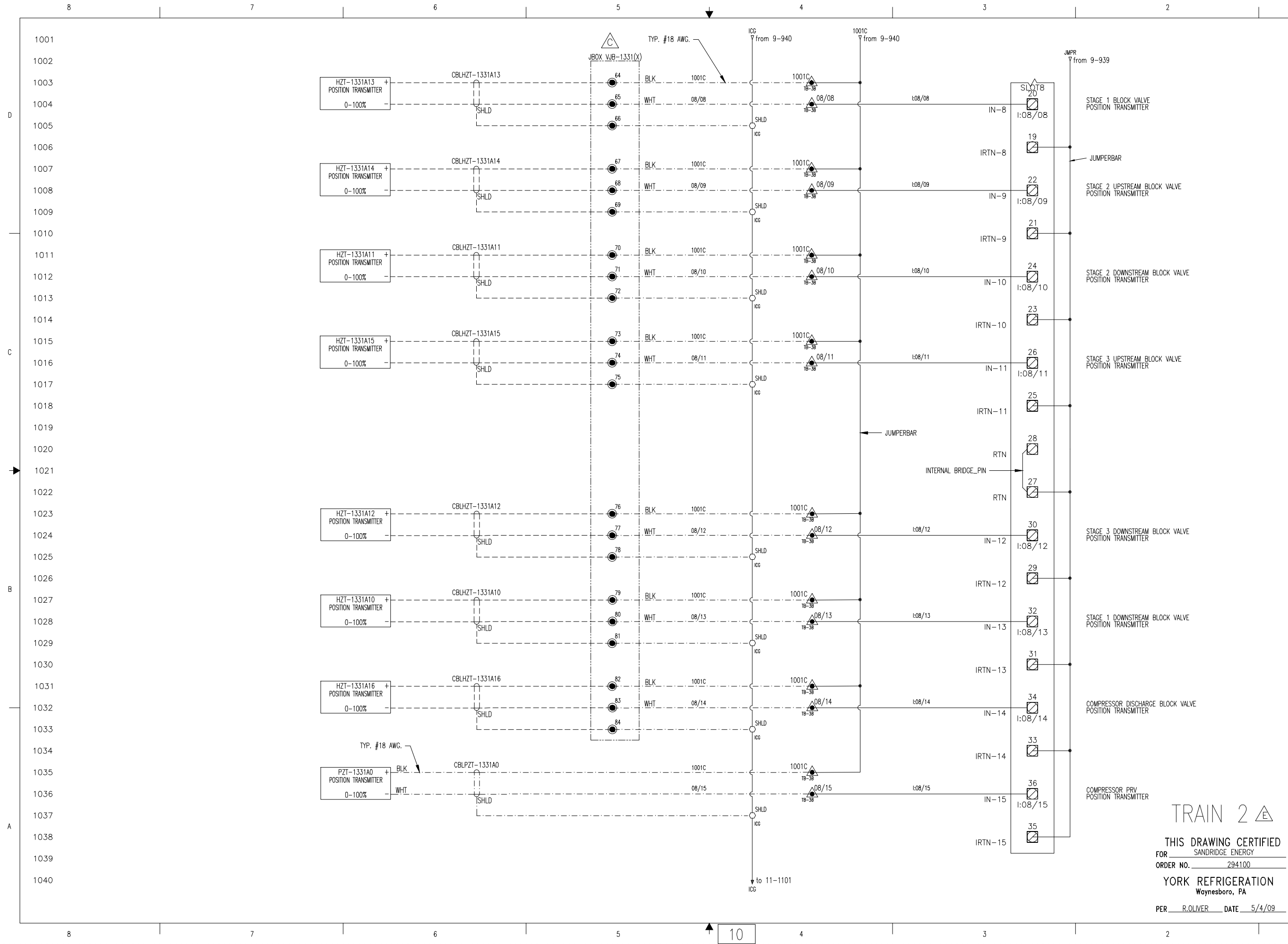
DEC. 31 ± .01
FRC. 31 ± .005
APPD. R. OLIVER

01/23/09
04/08/09
04/08/09

ANAL. ± 1/2
± 1/4

TRAIN 2

THIS DRAWING CERTIFIED
FOR SANDRIDGE ENERGY
ORDER NO. 294100
YORK REFRIGERATION
Waynesboro, PA
PER R. OLIVER DATE 5/4/09



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YORK Process Systems
100 E. ASHTON BLVD.
WAYNESBORO, PA 17268

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PURCHASER: SANDRIDGE ENERGY
1601 N.W. EXPRESSWAY SUITE 1600
OKLAHOMA CITY, OK 73118
PURCH ORDER NO. 294100

YORK ORDER NO. 294100

PURCH ORDER NO. 27607-P-13-012/CI

REV F

DATE CODE 645D1279

SIZE D

SCALE

SHEET 10 OF 40

TITLE: YPS - PLC CONTROL SYSTEM
PLC CONTROL PANEL ASSEMBLY & WIRING DIAGRAM
RACK 01 SLOT 08 - ANALOG INPUTS

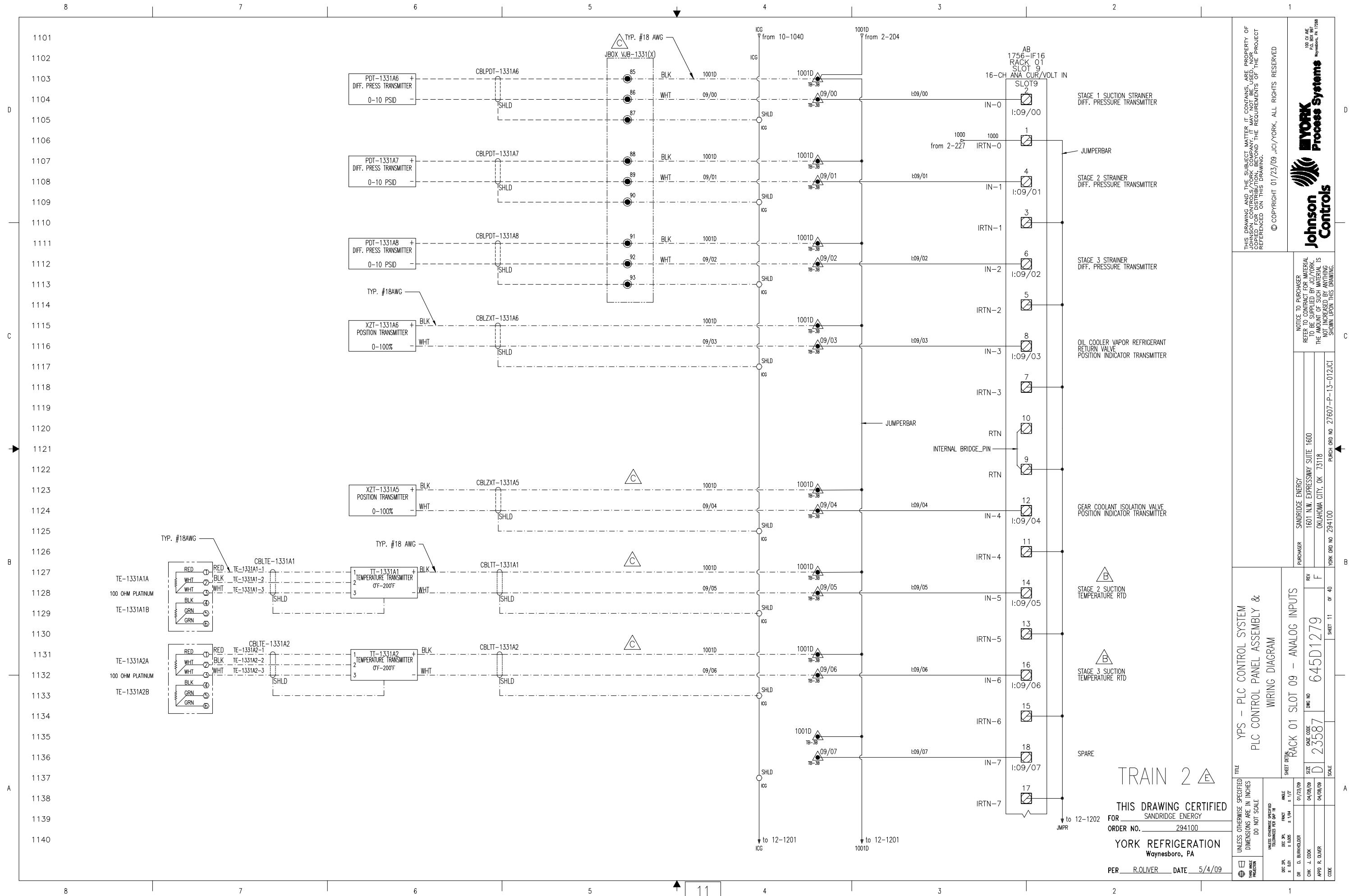
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES DO NOT SCALE

UNLESS OTHERWISE SPECIFIED TOLERANCES PER ASME

DATE	01/23/09	FRONT	± 1/2"
DATE	04/08/09	FRONT	± 1/4"
DATE	04/08/09	FRONT	± 1/4"
DATE	04/08/09	FRONT	± 1/4"

DR. D. BURKHOLDER
CHK. J. COOK
APPD. R. OLIVER
CODE

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Process Systems

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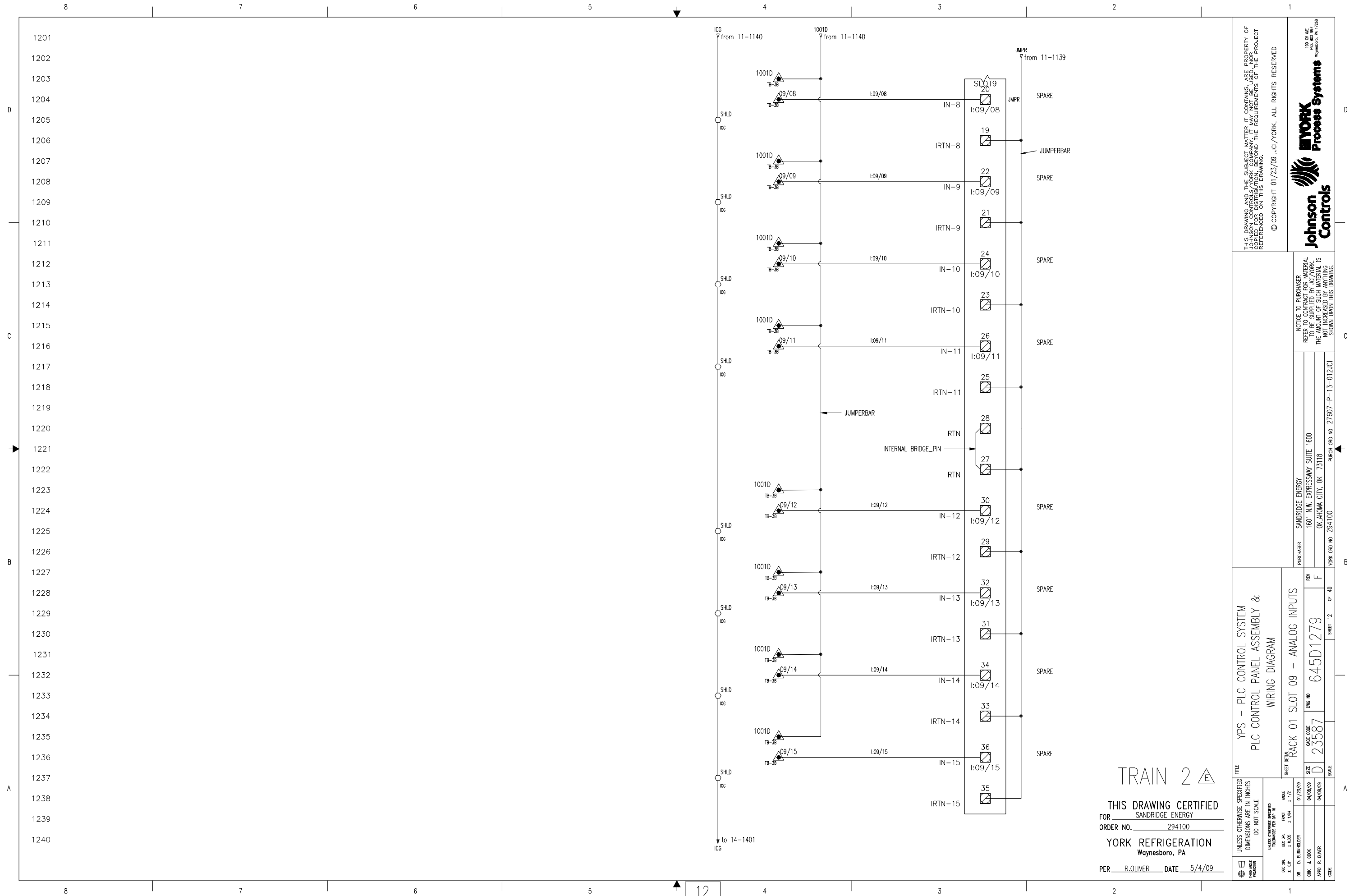
PURCHASER: SANDRIDGE ENERGY
1601 N.W. EXPRESSWAY SUITE 1600
OKLAHOMA CITY, OK 73118
PURCH ORDER NO. 27607-P-13-0123C1
YORK ORDER NO. 294100

TITLE: YPS - PLC CONTROL SYSTEM
PLC CONTROL PANEL ASSEMBLY & WIRING DIAGRAM
SHEET 11 OF 40
RACK 01 SLOT 09 - ANALOG INPUTS
CASE CODE: 645D1279
DWG NO: 23587
SCALE: F

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES DO NOT SCALE

DATE: 01/23/09
BY: JCI
CHECKED: J. COOK
DATE: 04/08/09
APP'D: R. OLIVER

THIS DRAWING CERTIFIED FOR SANDRIDGE ENERGY
ORDER NO. 294100
YORK REFRIGERATION Waynesboro, PA
PER R. OLIVER DATE 5/4/09



TRAIN 2 Δ

THIS DRAWING CERTIFIED
 FOR SANDRIDGE ENERGY
 ORDER NO. 294100
 YORK REFRIGERATION
 Waynesboro, PA
 PER R. OLIVER DATE 5/4/09

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PURCHASER: SANDRIDGE ENERGY
 1601 N.W. EXPRESSWAY SUITE 1600
 OKLAHOMA CITY, OK 73118
 PURCH ORDER NO. 294100

YORK PROCESS SYSTEMS
 100 CY AVE
 P.O. BOX 997
 Waynesboro, PA 17268

YORK JCI/YORK

TITLE: YPS - PLC CONTROL SYSTEM
 PLC CONTROL PANEL ASSEMBLY &
 WIRING DIAGRAM

SHEET 12 OF 40

DATE CODE: 23587
 Dwg No: 645D1279
 REV: F

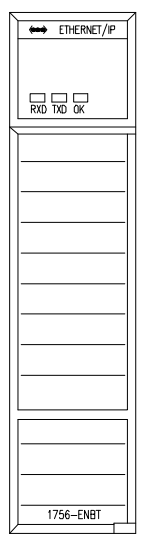
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES DO NOT SCALE

UNLESS OTHERWISE SPECIFIED TOLERANCES PER ASME Y14.5

DATE	01/23/09	AMOUNT	± 1/2"
DEC. FIN.	± 0.005	FRACT.	± 1/64"
DR. D. BURKHOLDER			
CHK. J. COOK	04/08/09		
APP'D. R. OLIVER	04/08/09		
CODE			

RACK COMMUNICATION
 IP=192.168.1.32
 SUBNET=255.255.254.0

SLOT 10

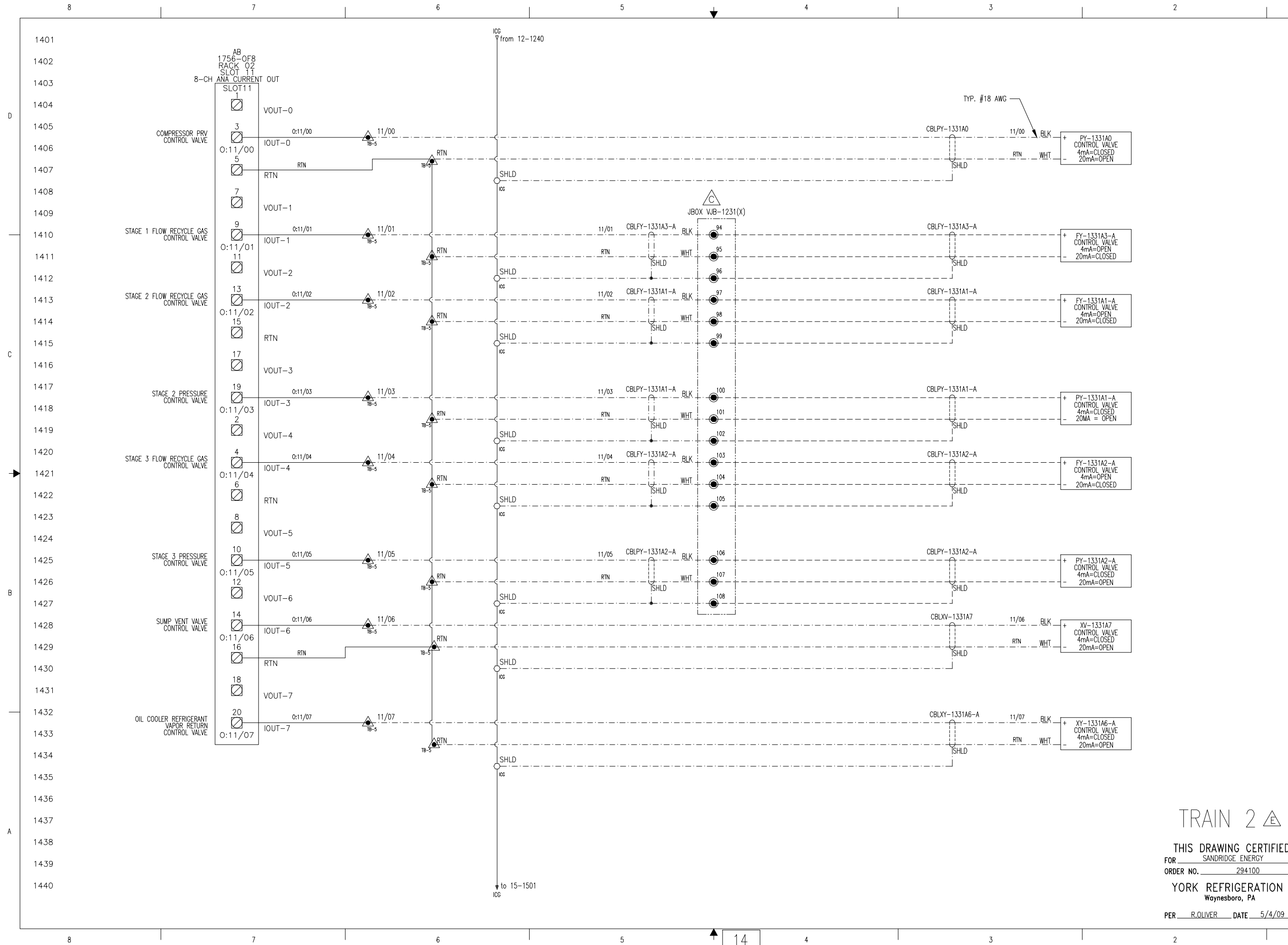


FROM ETHERNET CARD
 RACK 01
 SEE SHEET 4

TRAIN 2

THIS DRAWING CERTIFIED
 FOR SANDRIDGE ENERGY
 ORDER NO. 294100
 YORK REFRIGERATION
 Waynesboro, PA
 PER R.OLIVER DATE 5/4/09

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NOTICE TO PURCHASER REFER TO CONTRACT FOR MATERIAL TO BE SUPPLIED BY JCI/YORK. THE AMOUNT OF SUCH MATERIAL IS NOT INCREASED BY ANYTHING SHOWN UPON THIS DRAWING.		PURCHASER SANDRIDGE ENERGY 1601 N.W. EXPRESSWAY SUITE 1600 OKLAHOMA CITY, OK 73118 PURCH ORDER NO 294100	
TITLE YPS - PLC CONTROL SYSTEM PLC CONTROL PANEL ASSEMBLY & WIRING DIAGRAM		SHEET DETAIL RACK 02 SLOT 10	
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES DO NOT SCALE		SIZE D CASE CODE 23587 SHEET 13 OF 40	
UNLESS OTHERWISE SPECIFIED DIMENSIONS PER SHEET		REV F PURCH ORDER NO 27607-P-13-012/CI	
DR D. BURKHOLDER CHK J. COOK APPD R. OLIVER CODE	DEC 29 ± 0.01 DEC 29 ± 0.05 DEC 29 ± 1/16 DEC 29 ± 1/4 DEC 29 ± 1/2	DATE 04/08/09 DATE 04/08/09	SCALE



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PURCHASER: SANDRIDGE ENERGY
1601 N.W. EXPRESSWAY SUITE 1600
OKLAHOMA CITY, OK 73118
PURCH ORDER NO. 27607-P-13-012(CI)

FORK ORDER NO. 294100

TITLE: YPS - PLC CONTROL SYSTEM
PLC CONTROL PANEL ASSEMBLY & WIRING DIAGRAM

SHEET: 14 OF 40

PROJECT: 645D1279

DATE: 04/08/09

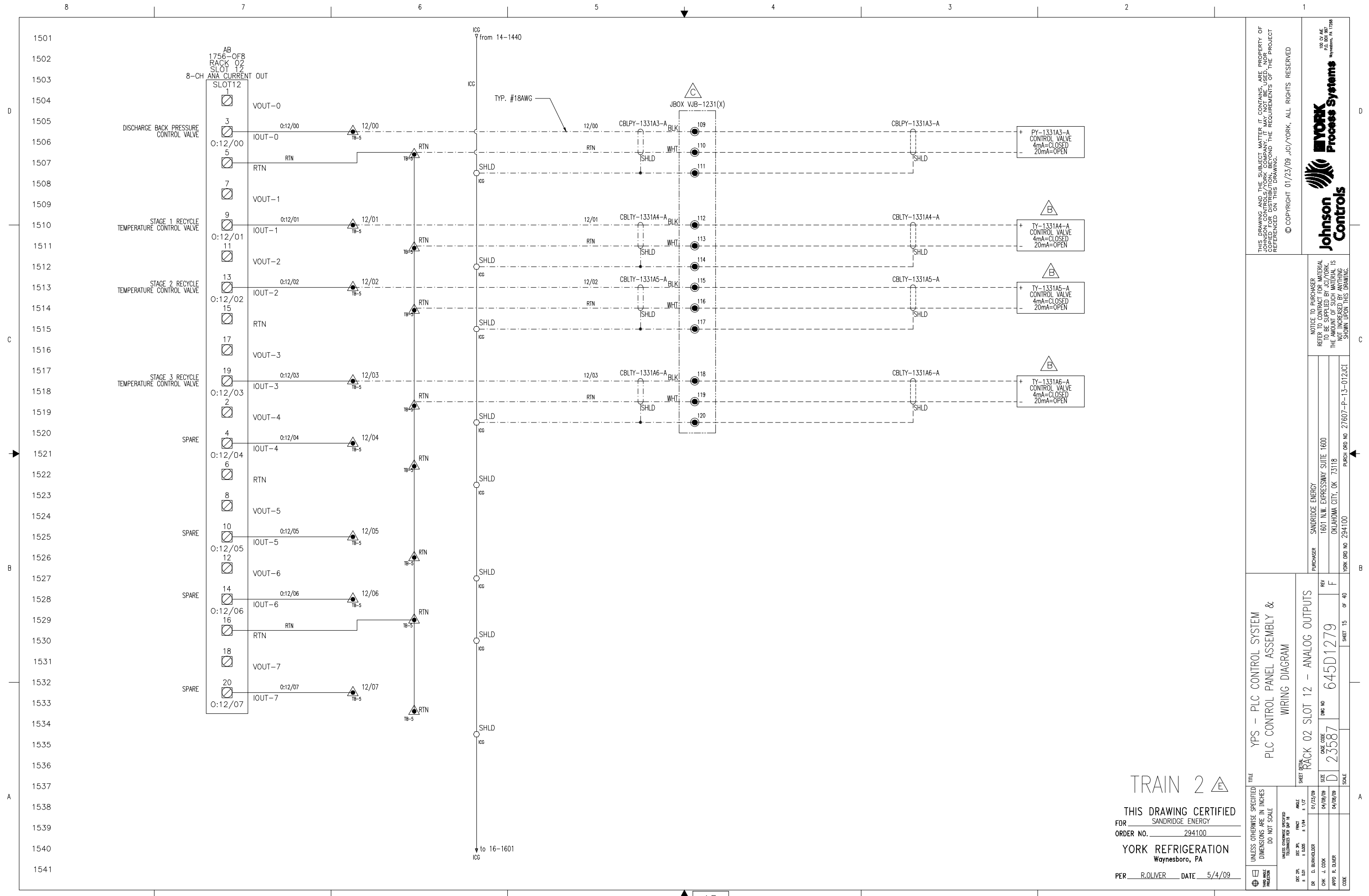
SCALE: AS SHOWN

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES DO NOT SCALE

DATE: 01/23/09
SCALE: 1/2" = 1'-0"

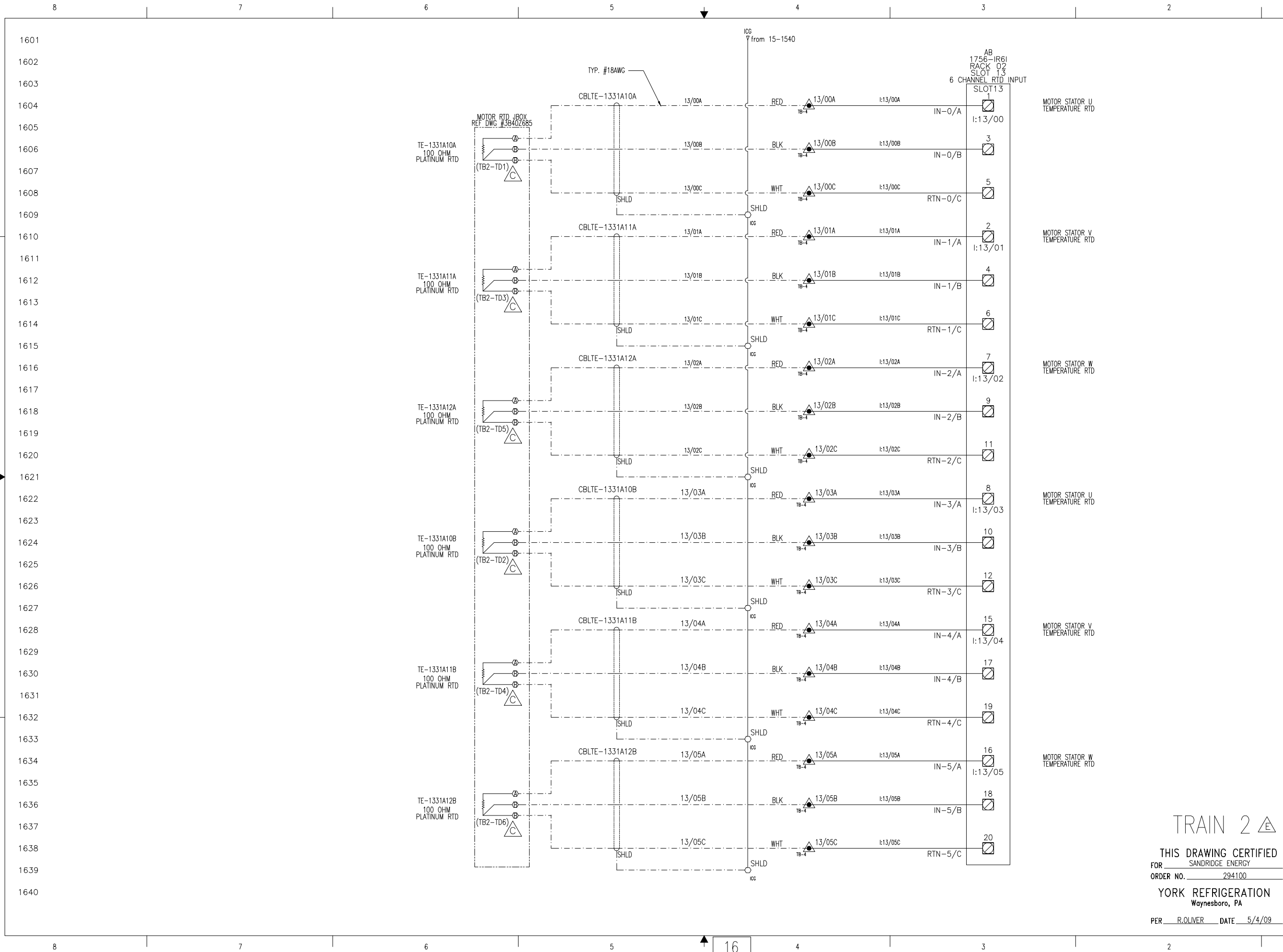
BY: D. BURKHOLDER
CHK: J. COOK
APP: R. OLIVER

THIS DRAWING CERTIFIED FOR SANDRIDGE ENERGY
ORDER NO. 294100
YORK REFRIGERATION
Waynesboro, PA
PER R. OLIVER DATE 5/4/09



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Johnson Controls YORK Process Systems 100 CV ME P.O. BOX 997 Waynesboro, PA 17268	
NOTICE TO PURCHASER: REFER TO CONTRACT FOR MATERIAL TO BE SUPPLIED BY JCI/YORK. THE AMOUNT OF SUCH MATERIAL IS NOT INCREASED BY ANYTHING SHOWN UPON THIS DRAWING.	
PURCHASER: SANDRIDGE ENERGY 1601 N.W. EXPRESSWAY SUITE 1600 OKLAHOMA CITY, OK 73118 PURCH ORDER NO: 294100	
TITLE: YPS - PLC CONTROL SYSTEM PLC CONTROL PANEL ASSEMBLY & WIRING DIAGRAM SHEET: RACK 02 SLOT 12 - ANALOG OUTPUTS CASE CODE: 645D1279 SIZE: D DATE: 04/08/09 REV: F SHEET 15 OF 40	
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES DO NOT SCALE UNLESS OTHERWISE SPECIFIED TOLERANCES PER ASME Y14.5	
DR: D. BURKHOLDER CHK: J. COOK APP'D: R. OLIVER	DATE: 01/23/09 SCALE: 1/4" = 1"

TRAIN 2
 THIS DRAWING CERTIFIED
 FOR SANDRIDGE ENERGY
 ORDER NO. 294100
 YORK REFRIGERATION
 Waynesboro, PA
 PER R. OLIVER DATE 5/4/09



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Process Systems

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PURCHASER: SANDRIDGE ENERGY
1601 N.W. EXPRESSWAY SUITE 1600
OKLAHOMA CITY, OK 73118
PURCH ORDER NO. 294100

REV F
DATE CODE 23587
PURCH ORDER NO. 27607-P-13-012/CI

SHEET 16 OF 40

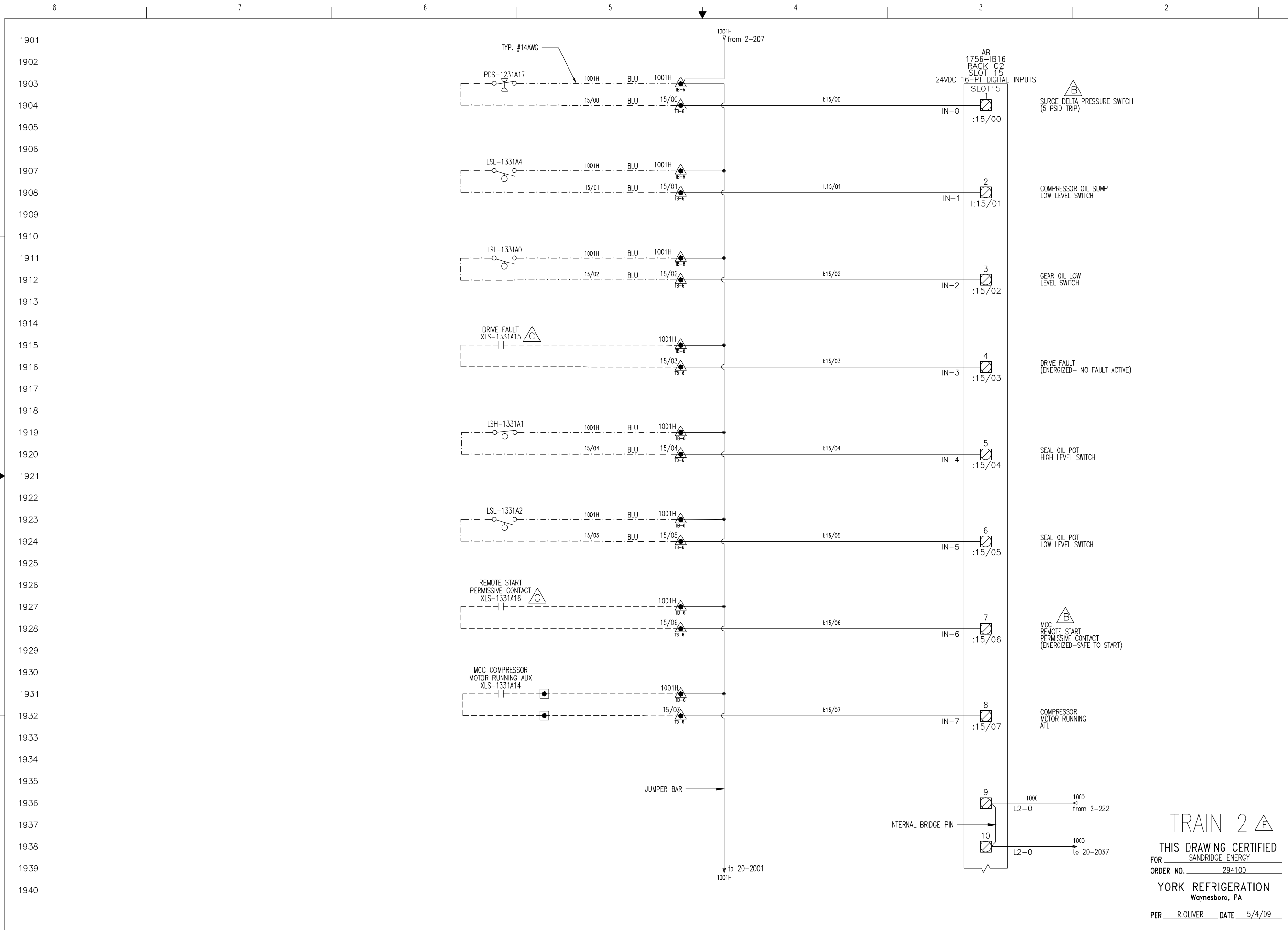
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES DO NOT SCALE

UNLESS OTHERWISE SPECIFIED TOLERANCES PER ASME

DATE	01/23/09	SCALE	1/2"
BY	J. COOK	DATE	04/08/09
APP'D	R. OLIVER	DATE	04/08/09

TRAIN 2

THIS DRAWING CERTIFIED FOR SANDRIDGE ENERGY
ORDER NO. 294100
YORK REFRIGERATION
Waynesboro, PA
PER R. OLIVER DATE 5/4/09



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YORK Process Systems
Johnson Controls

110 BY AS
P.O. BOX 997
Waynesboro, VA 22986

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PURCHASER: SANDRIDGE ENERGY
1601 N.W. EXPRESSWAY SUITE 1600
OKLAHOMA CITY, OK 73118
PURCH ORDER NO 294100

YORK ORDER NO 27607-P-13-012(C)

**YPS - PLC CONTROL SYSTEM
PLC CONTROL PANEL ASSEMBLY &
WIRING DIAGRAM**

RACK 02 SLOT 15 - DIGITAL INPUTS

SIZE: D 23587
DWG NO: 645D1279
REV: F

SHEET 19 OF 40

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES DO NOT SCALE

UNLESS OTHERWISE SPECIFIED TOLERANCES PER ASME Y14.5

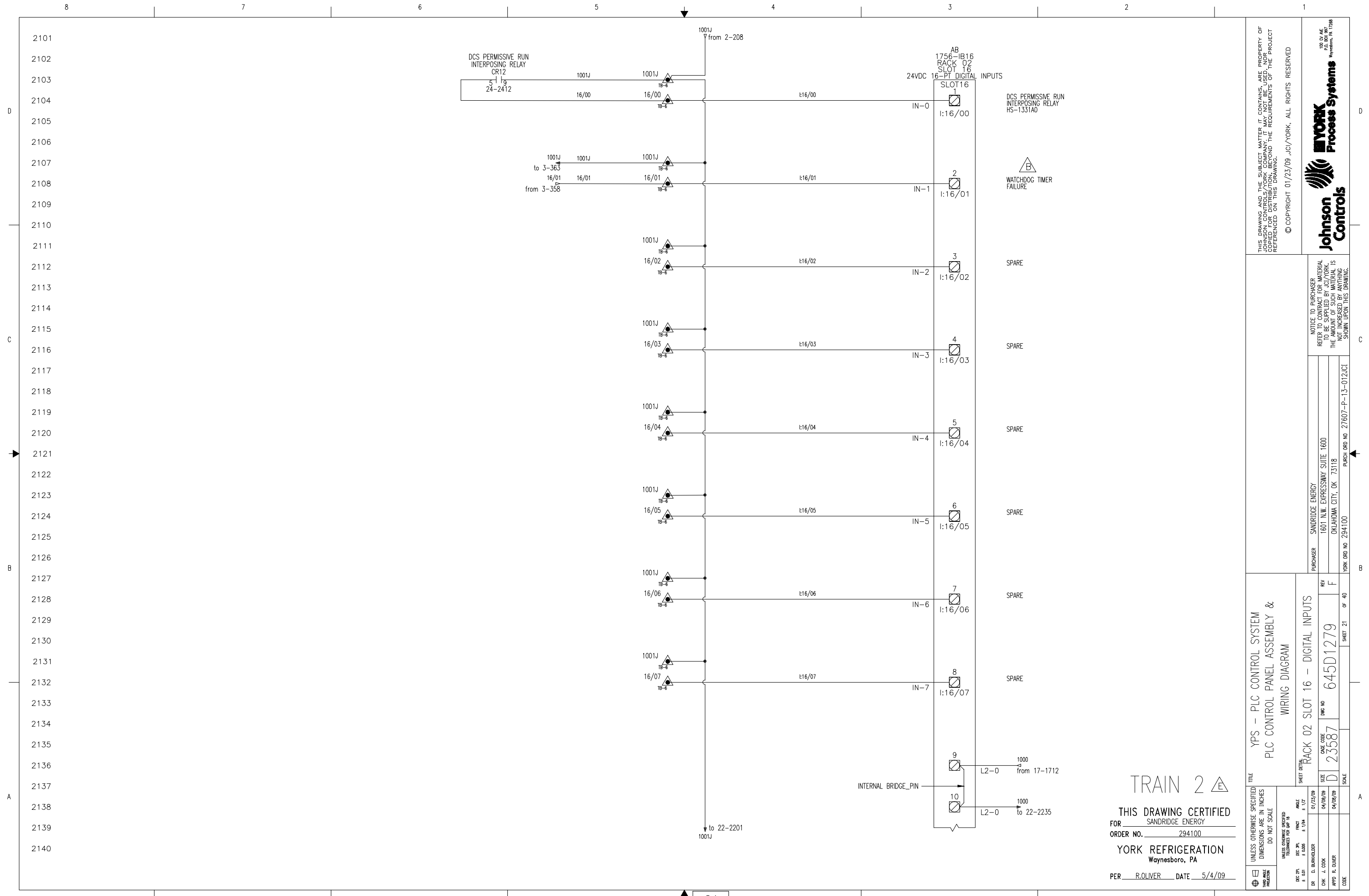
DEC 2% ± 0.01
DIM 2% ± 0.01
DR: D. BURKHOLDER
CHK: J. COOK
APPD: R. OLIVER
CODE

DATE: 01/23/09
BY: J. COOK
DATE: 04/04/09
DATE: 04/08/09

PER: R. OLIVER DATE: 5/4/09

TRAIN 2

THIS DRAWING CERTIFIED
FOR SANDRIDGE ENERGY
ORDER NO. 294100
YORK REFRIGERATION
Waynesboro, PA
PER R. OLIVER DATE 5/4/09



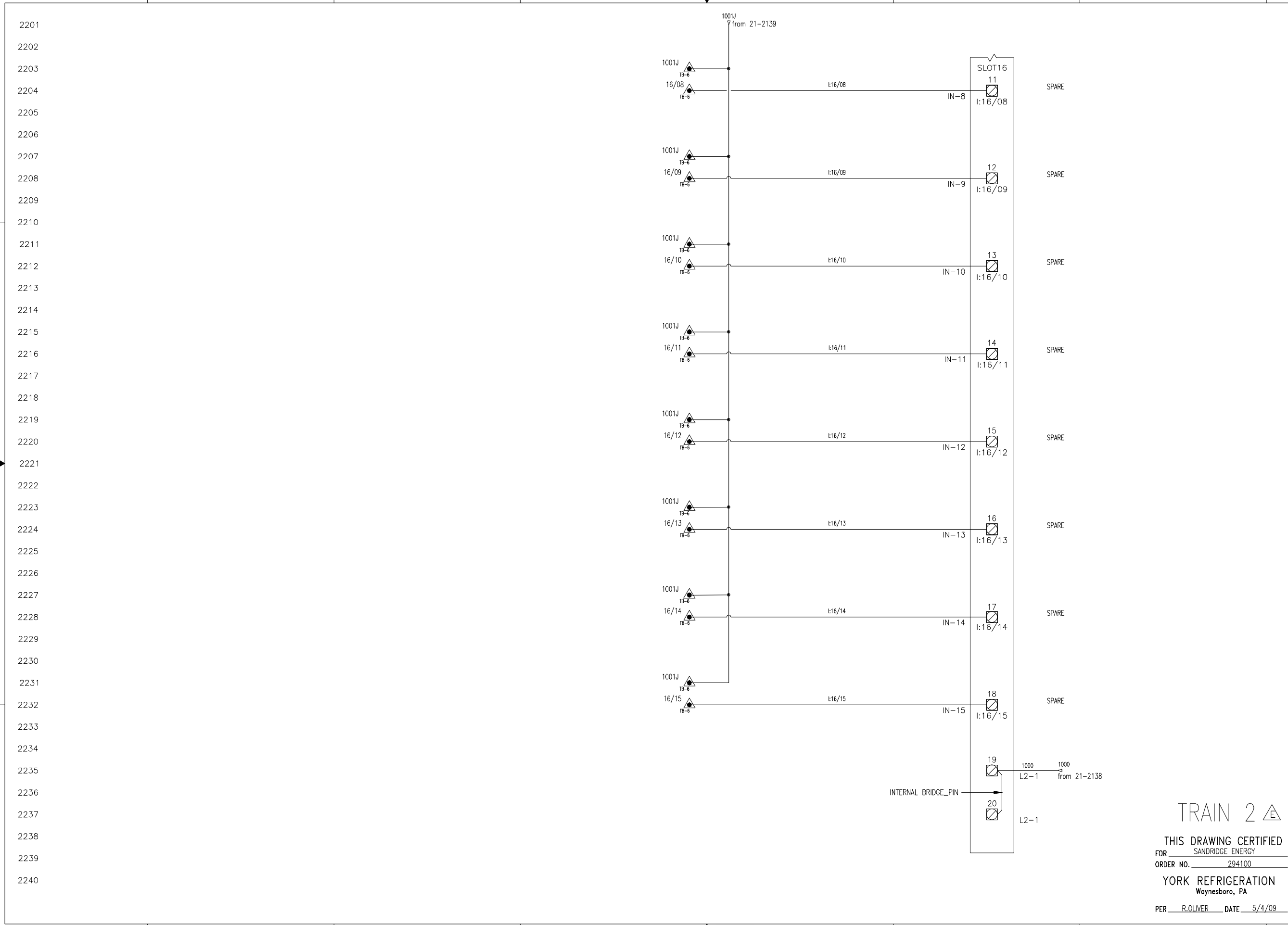
TRAIN 2

THIS DRAWING CERTIFIED
FOR SANDRIDGE ENERGY
ORDER NO. 294100

YORK REFRIGERATION
Waynesboro, PA

PER R. OLIVER DATE 5/4/09

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NOTICE TO PURCHASER REFER TO CONTRACT FOR MATERIAL TO BE SUPPLIED BY JCI/YORK. THE AMOUNT OF SUCH MATERIAL IS NOT INCREASED BY ANYTHING SHOWN UPON THIS DRAWING.		PURCHASER SANDRIDGE ENERGY 1601 N.W. EXPRESSWAY SUITE 1600 OKLAHOMA CITY, OK 73118 PURCH ORDER NO 294100	
TITLE YPS - PLC CONTROL SYSTEM PLC CONTROL PANEL ASSEMBLY & WIRING DIAGRAM		SHEET 21 OF 40 DRAWING NO 645D1279 REV F	
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES DO NOT SCALE UNLESS OTHERWISE SPECIFIED TOLERANCES PER ASME		SCALE SIZE D 23587 DATE 04/08/09 DATE 04/08/09 DATE 01/23/09	
DR. D. BIRKHOFFER CHK. J. COOK APP'D R. OLIVER		DATE 04/08/09 DATE 04/08/09 DATE 01/23/09	



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PURCHASER: SANDRIDGE ENERGY
1601 N.W. EXPRESSWAY SUITE 1600
OKLAHOMA CITY, OK 73118
PURCH ORD NO 294100

YORK ORD NO 294100

YPS - PLC CONTROL SYSTEM
PLC CONTROL PANEL ASSEMBLY &
WIRING DIAGRAM

RACK 02 SLOT 15 - DIGITAL INPUTS

REV F
CASE CODE 645D1279
SIZE D
SCALE

DATE 04/08/09
04/08/09

01/23/09
1/4
1/4

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES DO NOT SCALE

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES DO NOT SCALE

FRAC ± 1/4
DEC ± 0.05
ANG ± 1/4

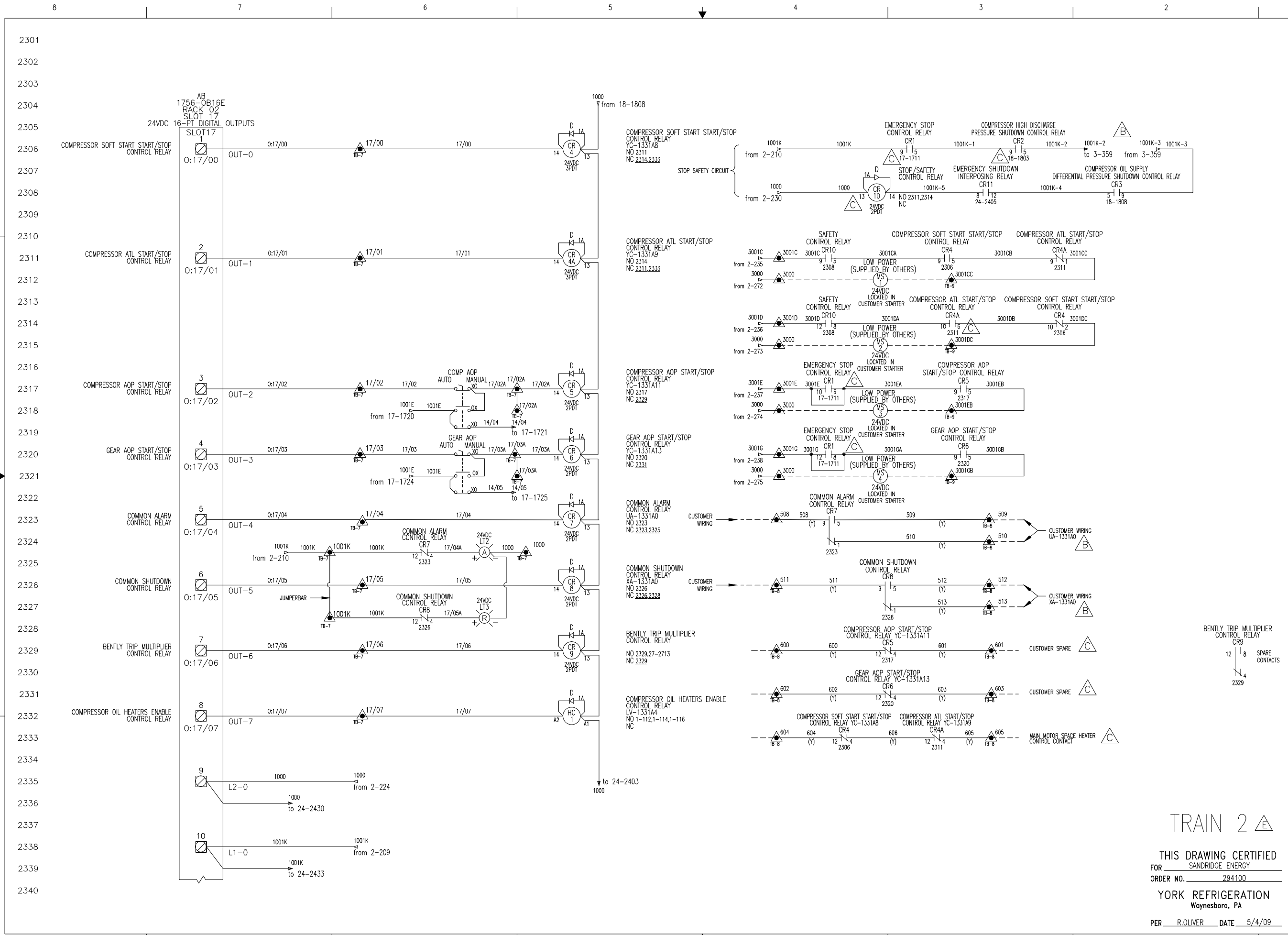
DR: D. BURKHOLDER
CHK: J. COOK
APPD: R. OLIVER

FOR SANDRIDGE ENERGY
ORDER NO. 294100
YORK REFRIGERATION
Waynesboro, PA
PER R. OLIVER DATE 5/4/09

100 CV ME
P.O. BOX 997
Waynesboro, PA 17268

Johnson Controls
YORK Process Systems

TRAIN 2



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PURCHASER: SANDRIDGE ENERGY
 1601 N.W. EXPRESSWAY SUITE 1600
 OKLAHOMA CITY, OK 73118
 PURCH ORDER NO. 21607-P-13-0121C1

REV F

645D1279

SHEET 23 OF 40

YORK REFRIGERATION
 Waynesboro, PA

DATE CODE: D 23587
 DATE: 04/08/09

SCALE: 1" = 1/4"

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES DO NOT SCALE

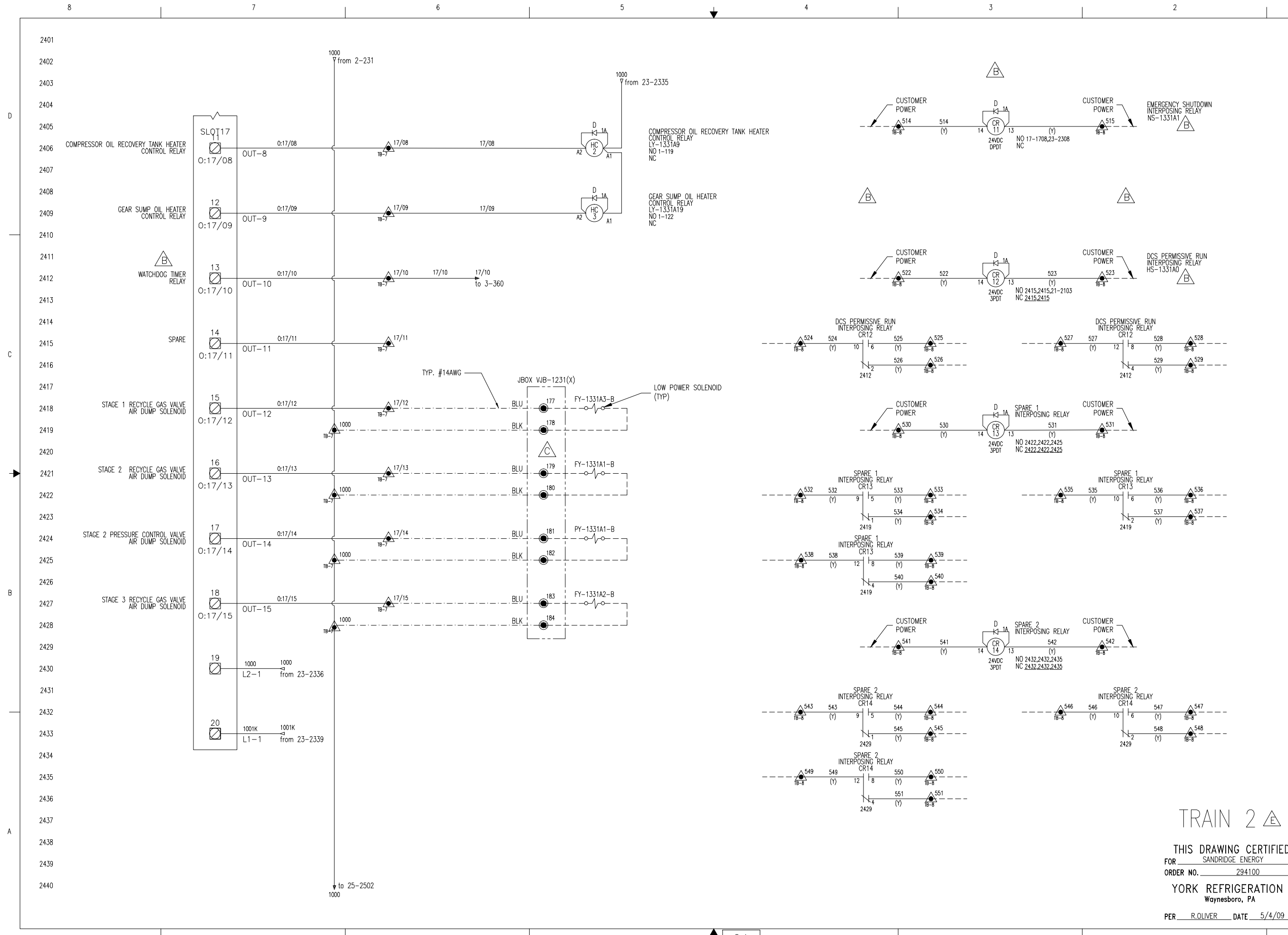
DR: D. BURKHOLDER
 CHK: J. COOK
 APP'D: R. OLIVER

DATE: 01/23/09
 DATE: 04/08/09
 DATE: 04/08/09

SCALE: ± 1/4" ± 1/4" ± 1/4" ± 1/4"

TRAIN 2

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 ORDER NO. 294100
 YORK REFRIGERATION
 Waynesboro, PA
 PER R. OLIVER DATE 5/4/09



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PURCHASER: SANDRIDGE ENERGY
 1601 N.W. EXPRESSWAY SUITE 1600
 OKLAHOMA CITY, OK 73118

YORK ORD NO: 294100
 PURCH ORD NO: 27607-P-13-012/CI

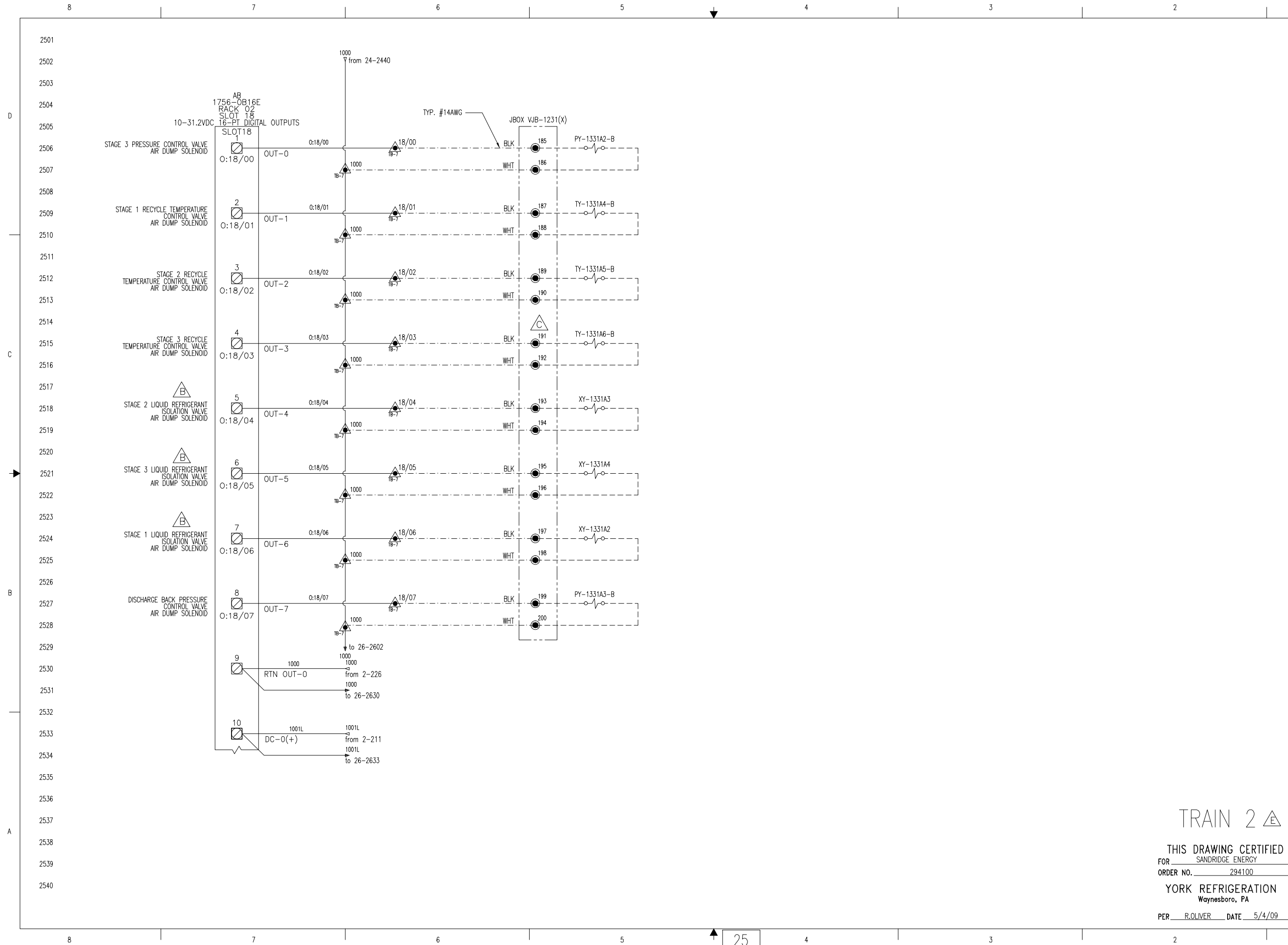
TITLE: YPS - PLC CONTROL SYSTEM
 PLC CONTROL PANEL ASSEMBLY & WIRING DIAGRAM

SHEET NO: 24 OF 40
 DRAWING NO: 645D1279
 SIZE: D
 SCALE: AS SHOWN

DATE CODE: 23587
 REV: F

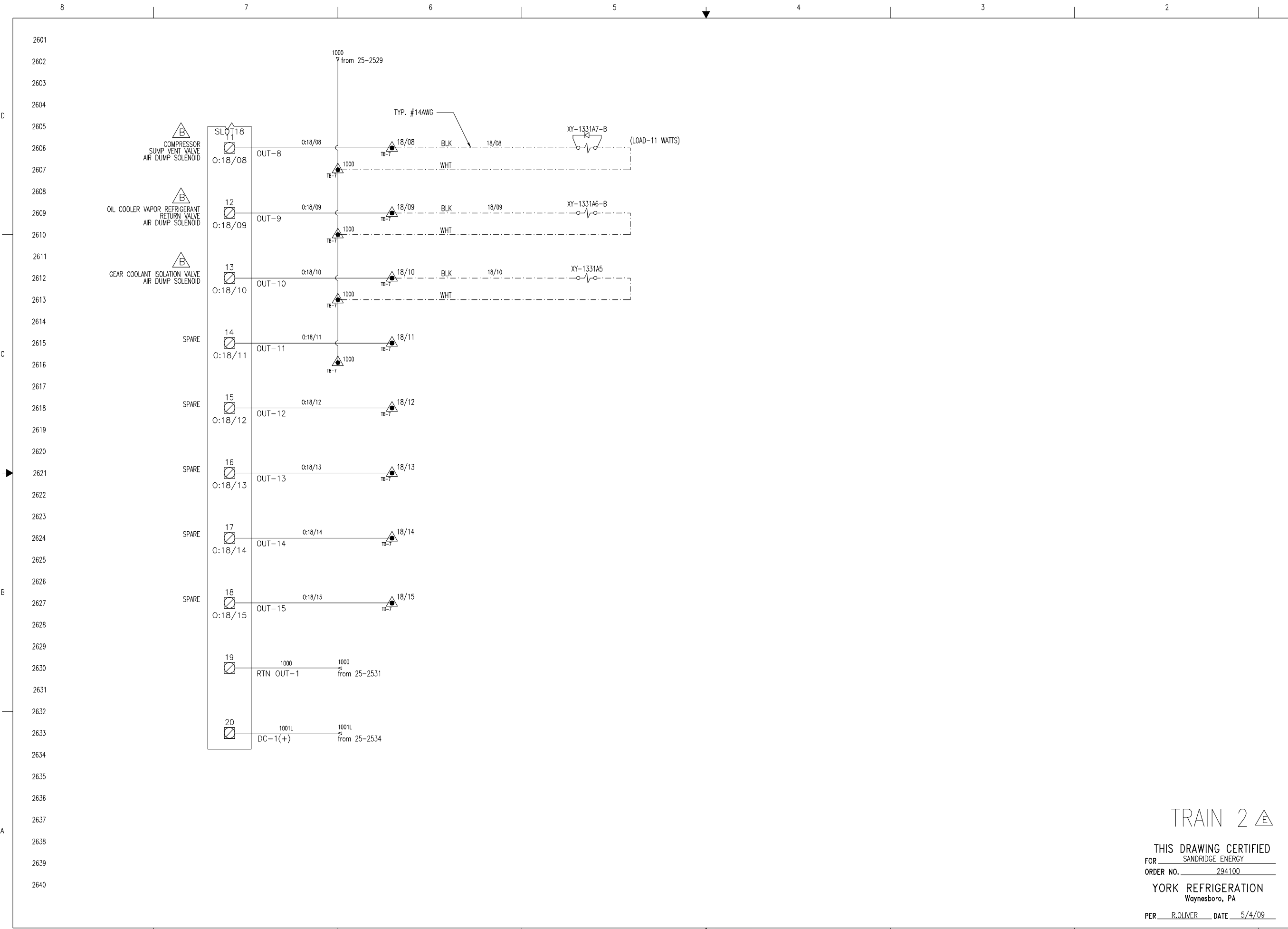
TRAIN 2

THIS DRAWING CERTIFIED
 FOR SANDRIDGE ENERGY
 ORDER NO. 294100
 YORK REFRIGERATION
 Waynesboro, PA
 PER R. OLIVER DATE 5/4/09



TRAIN 2 Δ
 THIS DRAWING CERTIFIED
 FOR SANDRIDGE ENERGY
 ORDER NO. 294100
 YORK REFRIGERATION
 Waynesboro, PA
 PER R. OLIVER DATE 5/4/09

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NOTICE TO PURCHASER: REFER TO CONTRACT FOR MATERIAL TO BE SUPPLIED BY JCI/YORK. THE AMOUNT OF SUCH MATERIAL IS NOT INCREASED BY ANYTHING SHOWN UPON THIS DRAWING.		PURCHASER: SANDRIDGE ENERGY 1601 N.W. EXPRESSWAY SUITE 1600 OKLAHOMA CITY, OK 73118 PURCH ORDER NO. 27607-P-13-012/CI	
TITLE YPS - PLC CONTROL SYSTEM PLC CONTROL PANEL ASSEMBLY & WIRING DIAGRAM		SHEET NO. 25 OF 40 DRAWING NO. 645D1279 REV. F	
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES DO NOT SCALE		UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES DO NOT SCALE	
Dwg No. 645D1279 Date 04/08/09	Rev. F Date 04/08/09	Scale 1" = 1/4"	Project 294100

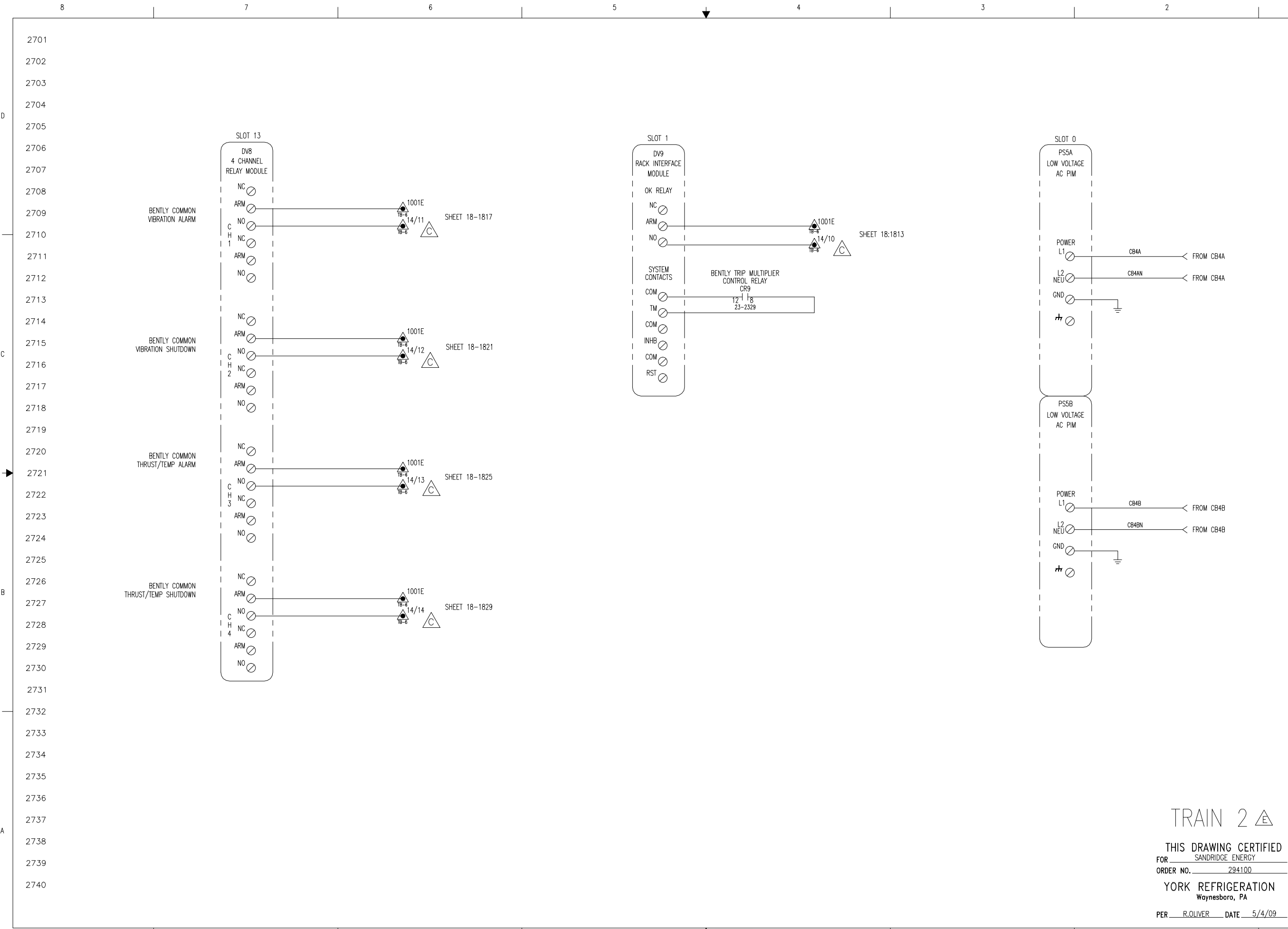


- COMPRESSOR SUMP VENT VALVE AIR DUMP SOLENOID
- OIL COOLER VAPOR REFRIGERANT RETURN VALVE AIR DUMP SOLENOID
- GEAR COOLANT ISOLATION VALVE AIR DUMP SOLENOID

TRAIN 2

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 FOR SANDRIDGE ENERGY
 ORDER NO. 294100
 YORK REFRIGERATION
 Waynesboro, PA
 PER R.OLIVER DATE 5/4/09

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NOTICE TO PURCHASER: REFER TO CONTRACT FOR MATERIAL TO BE SUPPLIED BY JCI/YORK. THE AMOUNT OF SUCH MATERIAL IS NOT INCREASED BY ANYTHING SHOWN UPON THIS DRAWING.		PURCHASER: SANDRIDGE ENERGY 1601 N.W. EXPRESSWAY SUITE 1600 OKLAHOMA CITY, OK 73118 PURCH ORDER NO. 27607-P-13-012/CI	
TITLE: YPS - PLC CONTROL SYSTEM PLC CONTROL PANEL ASSEMBLY & WIRING DIAGRAM		SHEET: RACK 02 SLOT 18 - DIGITAL OUTPUTS SHEET 26 OF 40	
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES DO NOT SCALE		UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES DO NOT SCALE	
DEC 29 ± .01 DR: D. BURKHOLDER	DEC 29 ± .01 CHK: J. COOK APPD: R. OLIVER	DEC 29 ± .01 CHK: J. COOK APPD: R. OLIVER	DEC 29 ± .01 CHK: J. COOK APPD: R. OLIVER
SIZE: D CASE CODE: 23587	REV: F DRAWING NO: 645D1279	SCALE:	SHEET: 26 OF 40



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 YORK Process Systems

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PURCHASER: SANDRIDGE ENERGY
 1601 N.W. EXPRESSWAY SUITE 1600
 OKLAHOMA CITY, OK 73118
 PURCH ORDER NO: 27607-P-13-012/CI

YORK ORDER NO: 294100

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES DO NOT SCALE

UNLESS OTHERWISE SPECIFIED TOLERANCES PER ASME Y14.5

DATE	01/23/09	SCALE	AS SHOWN
BY	J. COOK	REV	F
CHK	J. COOK	DATE	04/08/09
APP'D	R. OLIVER	DATE	04/08/09

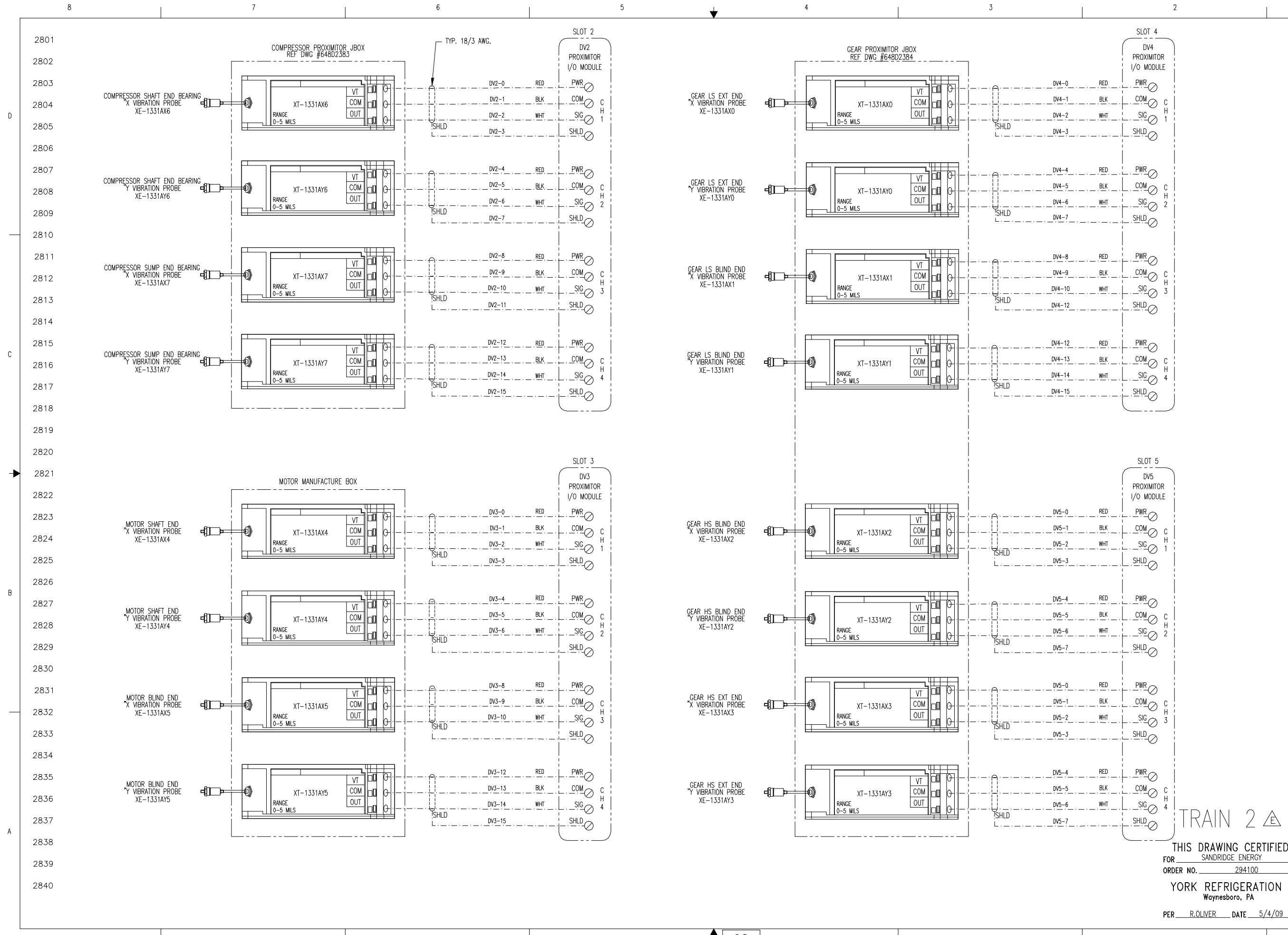
SIZE: D 23587
 SHEET: 27 OF 40

TITLE: YPS - PLC CONTROL SYSTEM
 PLC CONTROL PANEL ASSEMBLY & WIRING DIAGRAM
 BENTLY POWER, RACK INTERFACE

PROJECT NO: 645D1279

TRAIN 2

THIS DRAWING CERTIFIED
 FOR SANDRIDGE ENERGY
 ORDER NO. 294100
 YORK REFRIGERATION
 Waynesboro, PA
 PER R. OLIVER DATE 5/4/09



TRAIN 2 Δ

THIS DRAWING CERTIFIED
 FOR SANDRIDGE ENERGY
 ORDER NO. 294100
 YORK REFRIGERATION
 Waynesboro, PA
 PER R. OLIVER DATE 5/4/09

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PURCHASER: SANDRIDGE ENERGY
 1601 N.W. EXPRESSWAY SUITE 1600
 OKLAHOMA CITY, OK 73118
 PURCH ORDER NO. 271607-P-13-012/CI
 YORK ORDER NO. 294100

TITLE: YPS - PLC CONTROL SYSTEM
 PLC CONTROL PANEL ASSEMBLY & WIRING DIAGRAM

SHEET DETAIL: BENTLY PROXIMITORS

SIZE: D 23587
 DWG NO: 645D1279
 REV: F OF 40
 SHEET 28

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES DO NOT SCALE

UNLESS OTHERWISE SPECIFIED TOLERANCES PER ASME Y14.5

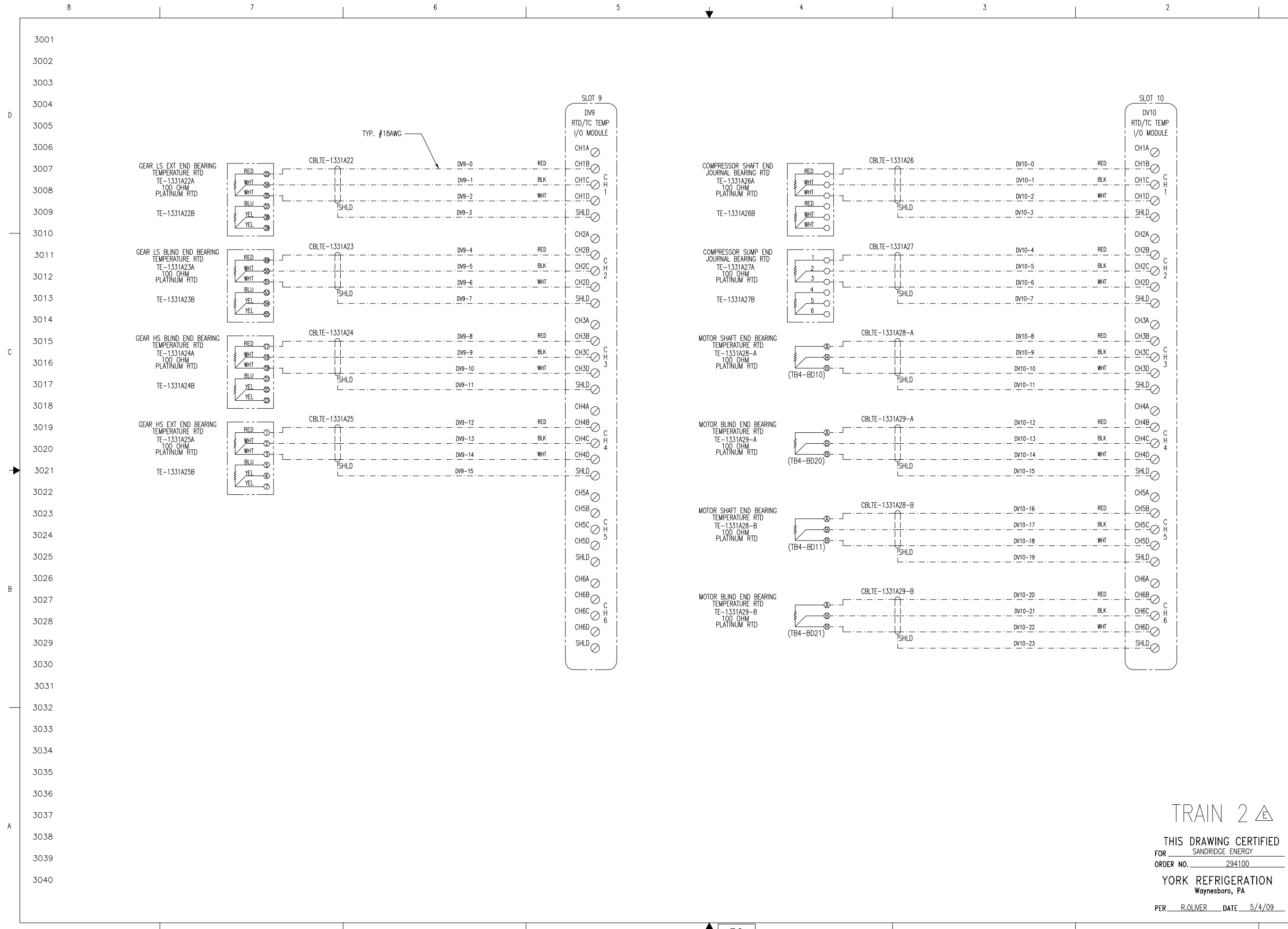
DWG. BY: J. COOK
 CHK. BY: J. COOK
 APP'D. BY: R. OLIVER

DATE: 01/23/09
 04/08/09
 04/08/09

SCALE: 1/4" = 1" / 1/4" = 1/2"

CODE: 100 01 04 P.O. BOX 997 Waynesboro, PA 17268

Johnson Controls
Process Systems



YORK Process Systems
Johnson Controls

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PURCHASER: SANDRIDGE ENERGY
 1601 N.W. EXPRESSWAY SUITE 1600
 OKLAHOMA CITY, OK 73118
 PURCH ORDER NO. 294100

DATE CODE: 23587
 DWG NO: 645D1279
 REV: F
 SHEET 30 OF 40

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES DO NOT SCALE

UNLESS OTHERWISE SPECIFIED TOLERANCES PER ASME Y14.5

DATE: 01/23/09
 DESIGNED BY: JCI
 CHECKED BY: JCI
 APPROVED BY: JCI

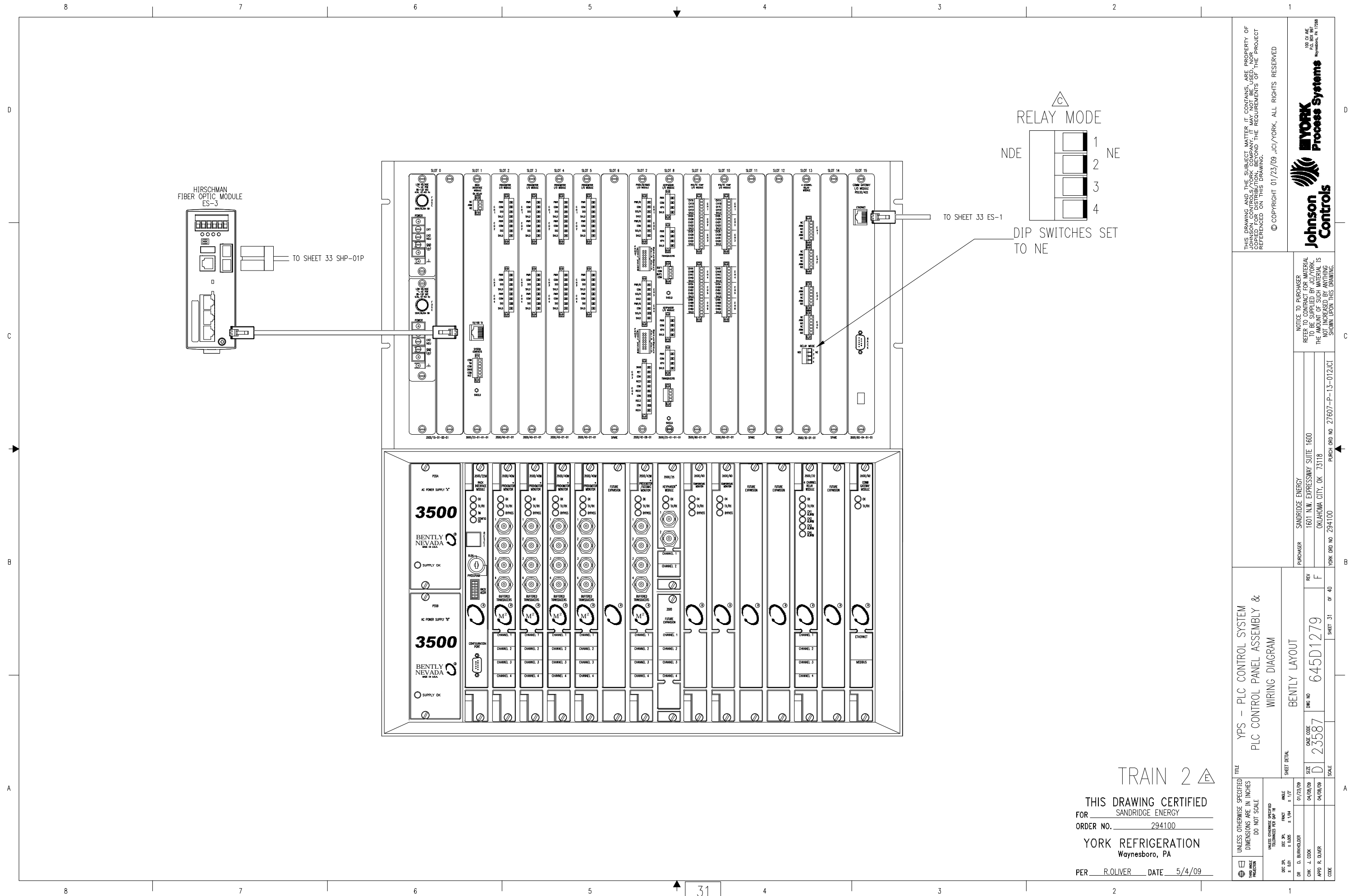
DATE: 04/08/09
 DESIGNED BY: R. OLIVER
 CHECKED BY: JCI
 APPROVED BY: JCI

DATE: 04/08/09
 DESIGNED BY: R. OLIVER
 CHECKED BY: JCI
 APPROVED BY: JCI

DATE: 04/08/09
 DESIGNED BY: R. OLIVER
 CHECKED BY: JCI
 APPROVED BY: JCI

TRAIN 2 Δ

THIS DRAWING CERTIFIED
 FOR SANDRIDGE ENERGY
 ORDER NO. 294100
 YORK REFRIGERATION
 Waynesboro, PA
 PER R. OLIVER DATE 5/4/09

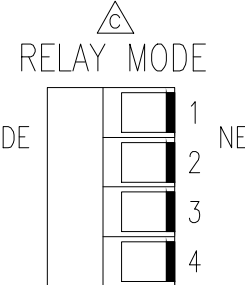


HIRSCHMAN
FIBER OPTIC MODULE
ES-3

TO SHEET 33 SHP-01P

TO SHEET 33 ES-1

DIP SWITCHES SET
TO NE



TRAIN 2

THIS DRAWING CERTIFIED
FOR SANDRIDGE ENERGY
ORDER NO. 294100
YORK REFRIGERATION
Waynesboro, PA
PER R. OLIVER DATE 5/4/09

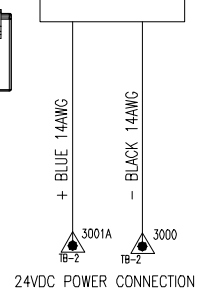
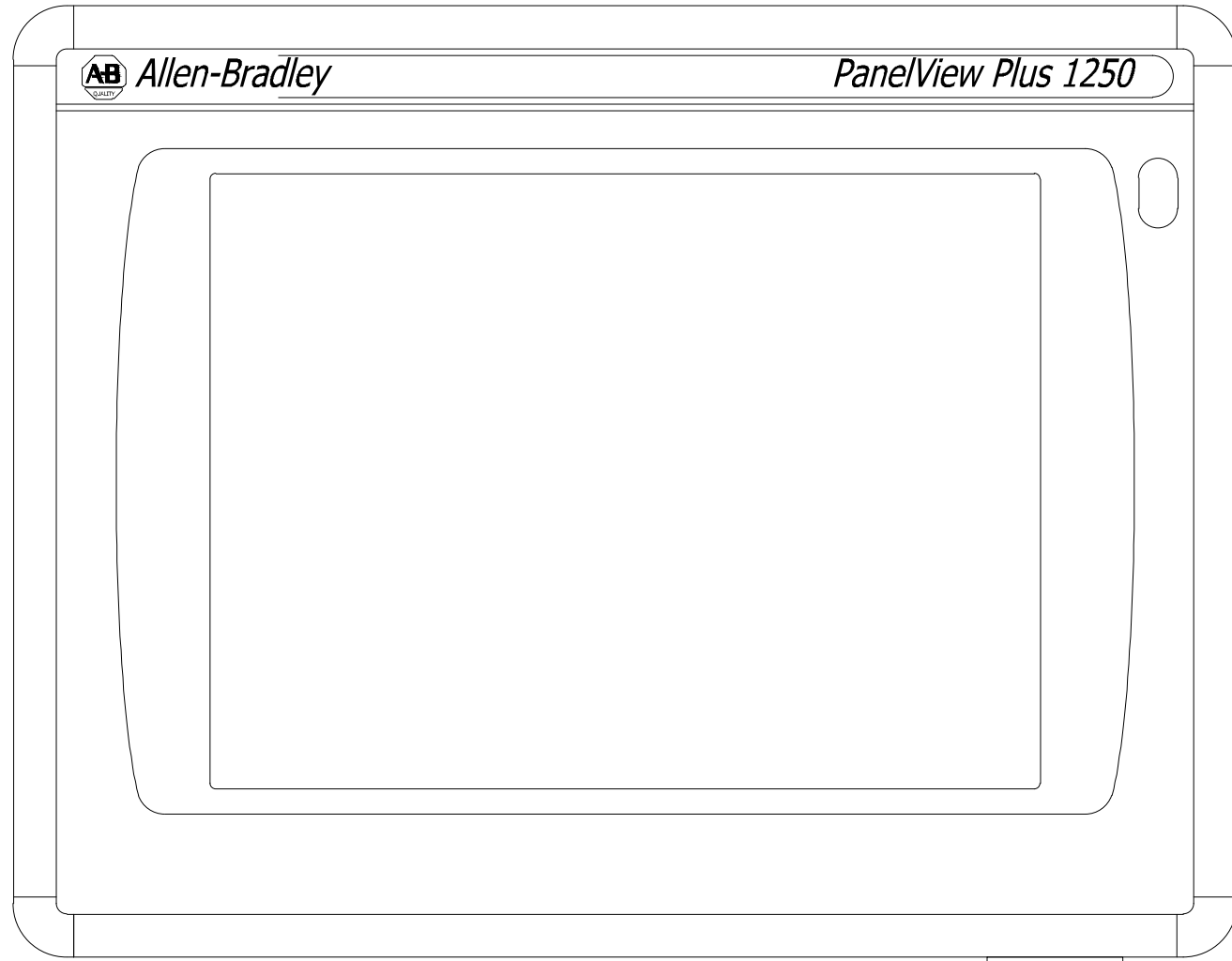
<p>UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES DO NOT SCALE</p>		<p>UNLESS OTHERWISE SPECIFIED TOLERANCES PER ASME</p>	
DEC. 20	DEC. 20	FRAC.	ANGLE
± .01	± .005	± 1/64	± 1/2°
DR. D. BURKHOLDER	01/23/09		
CHK. J. COOK	04/08/09		
APPD. R. OLIVER	04/08/09		
CODE			
<p>TITLE YPS - PLC CONTROL SYSTEM PLC CONTROL PANEL ASSEMBLY & WIRING DIAGRAM</p>		<p>SHEET DETAIL BENTLY LAYOUT</p>	
<p>PURCHASER SANDRIDGE ENERGY 1601 N.W. EXPRESSWAY SUITE 1600 OKLAHOMA CITY, OK 73118</p>		<p>REV F</p>	
<p>PURCH ORDER NO. 294100</p>		<p>WORK ORDER NO. 27607-P-13-012(C)</p>	
<p>SIZE D</p>		<p>DATE CODE 23587</p>	
<p>SCALE</p>		<p>DWG NO. 645D1279</p>	
<p>SHEET 31</p>		<p>OF 40</p>	

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YORK
Process Systems

100 CV ME
P.O. BOX 997
Waynesboro, PA 17268



FROM SHEET 33

TRAIN 2

THIS DRAWING CERTIFIED
FOR SANDRIDGE ENERGY

ORDER NO. 294100

YORK REFRIGERATION
Waynesboro, PA

PER R.OLIVER DATE 5/4/09

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES DO NOT SCALE	UNLESS OTHERWISE SPECIFIED TOLERANCES PER ASME	DATE	BY
DEC 20 ± 0.01	DEC 20 ± 0.005	01/23/09	AM/LE ± 1/16 ± 1/2
DR. D. BURKHOLDER		04/09/09	
CHK. J. COOK		04/08/09	
APP'D R. OLIVER			
CODE			

TITLE		YPS - PLC CONTROL SYSTEM PLC CONTROL PANEL ASSEMBLY & WIRING DIAGRAM	
SHEET DETAIL		PANELVIEW WIRING	
SIZE	D	DATE CODE	23587
DRG NO	645D1279	REV	F
SCALE		SHEET 32	OF 40

PURCHASER		SANDRIDGE ENERGY	
1601 N.W. EXPRESSWAY SUITE 1600		OKLAHOMA CITY, OK 73118	
YORK ORD NO 294100		PURCH ORD NO 27607-P-13-012/CI	

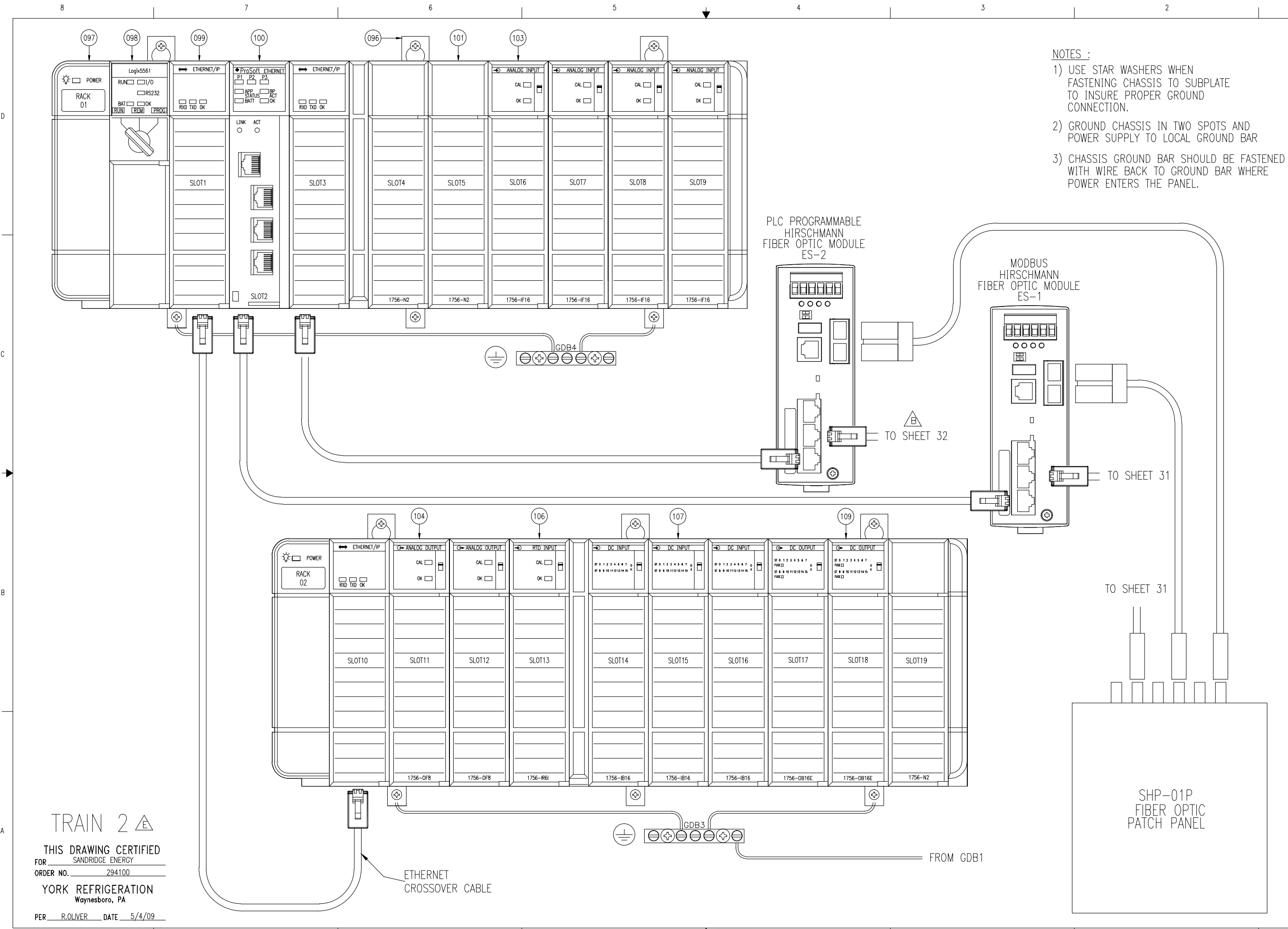
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Johnson Controls

YORK Process Systems

100 CV ME
P.O. BOX 997
Waynesboro, PA 17268

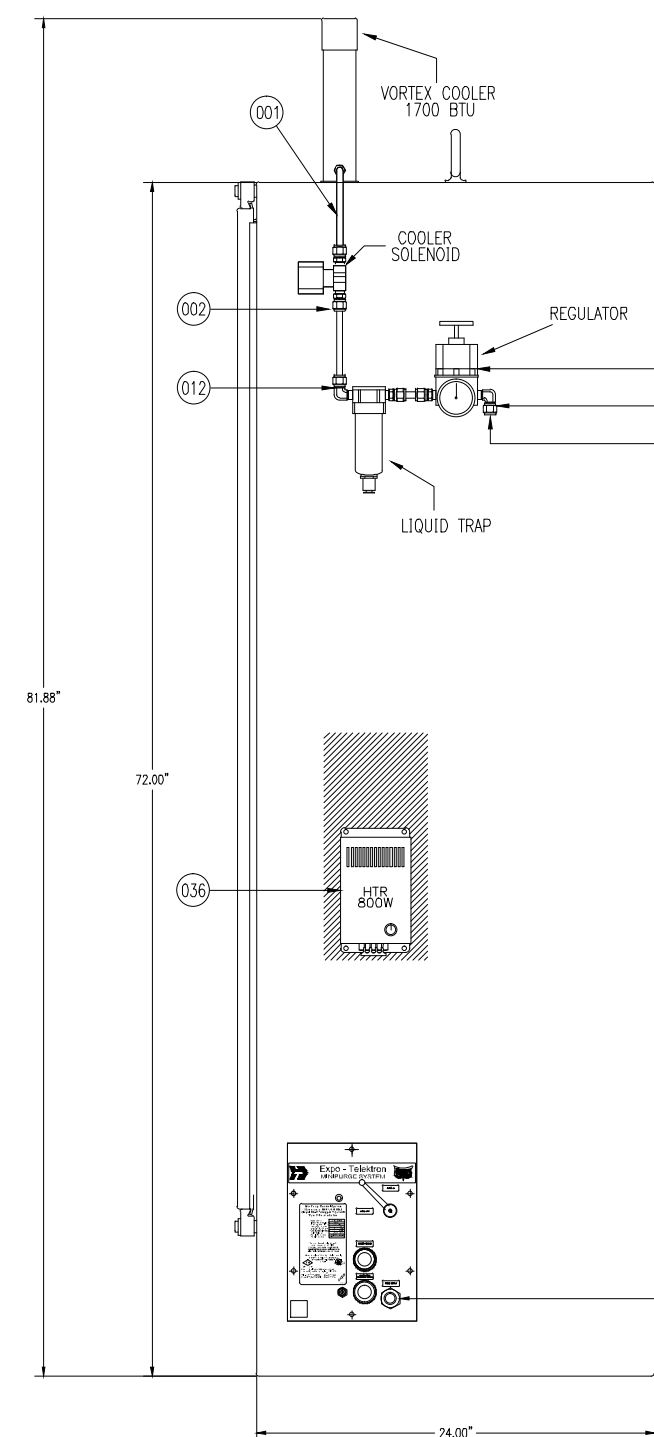
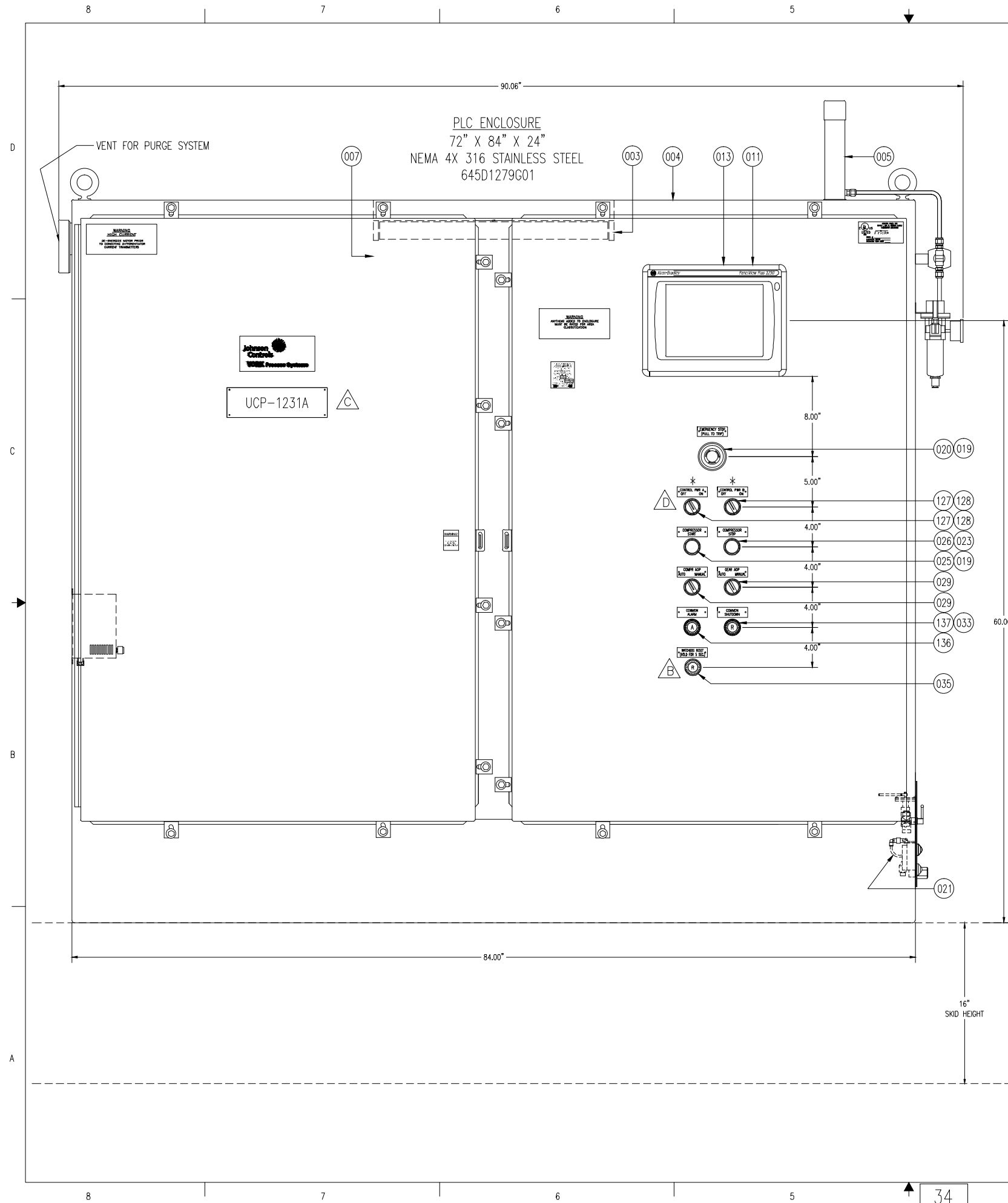


- NOTES :
- 1) USE STAR WASHERS WHEN FASTENING CHASSIS TO SUBPLATE TO INSURE PROPER GROUND CONNECTION.
 - 2) GROUND CHASSIS IN TWO SPOTS AND POWER SUPPLY TO LOCAL GROUND BAR
 - 3) CHASSIS GROUND BAR SHOULD BE FASTENED WITH WIRE BACK TO GROUND BAR WHERE POWER ENTERS THE PANEL.

TRAIN 2

THIS DRAWING CERTIFIED
FOR SANDRIDGE ENERGY
ORDER NO. 294100
YORK REFRIGERATION
Waynesboro, PA
PER R. OLIVER DATE 5/4/09

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NOTICE TO PURCHASER: REFER TO CONTRACT FOR MATERIAL TO BE SUPPLIED BY JCI/YORK. THE AMOUNT OF SUCH MATERIAL IS NOT INCREASED BY ANYTHING SHOWN UPON THIS DRAWING.		PURCHASER: SANDRIDGE ENERGY 1601 N.W. EXPRESSWAY SUITE 1600 OKLAHOMA CITY, OK 73118 PURCH ORDER NO. 21607-P-13-012(C)	
TITLE: YPS - PLC CONTROL SYSTEM PLC CONTROL PANEL ASSEMBLY & WIRING DIAGRAM		SHEET DETAIL: ETHERNET COMMUNICATION CASE CODE: 645D1279 SIZE: D 23587 SHEET 33 OF 40	
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES DO NOT SCALE UNLESS OTHERWISE SPECIFIED TOLERANCES PER ASME Y14.5		REV: F DATE: 04/08/09 APP'D: R. OLIVER CODE:	



TO AIR HEADER, REF DWG #669D0124 SHT. 1
 COOLER CONN.- 1/2" TUBE
 SUPPLY- CLEAN DRY AIR AT 80-100 PSIG
 VOLUME- 25 SCFM

TO INSURE NO CONDENSATION BY VORTEX
 COOLER AIR SUPPLY DEW POINT MUST BE
 DESIGNED TO -40F (-40C)

1/2" NPT
 TO AIR HEADER
 REF DWG #669D0124 SHT. 1

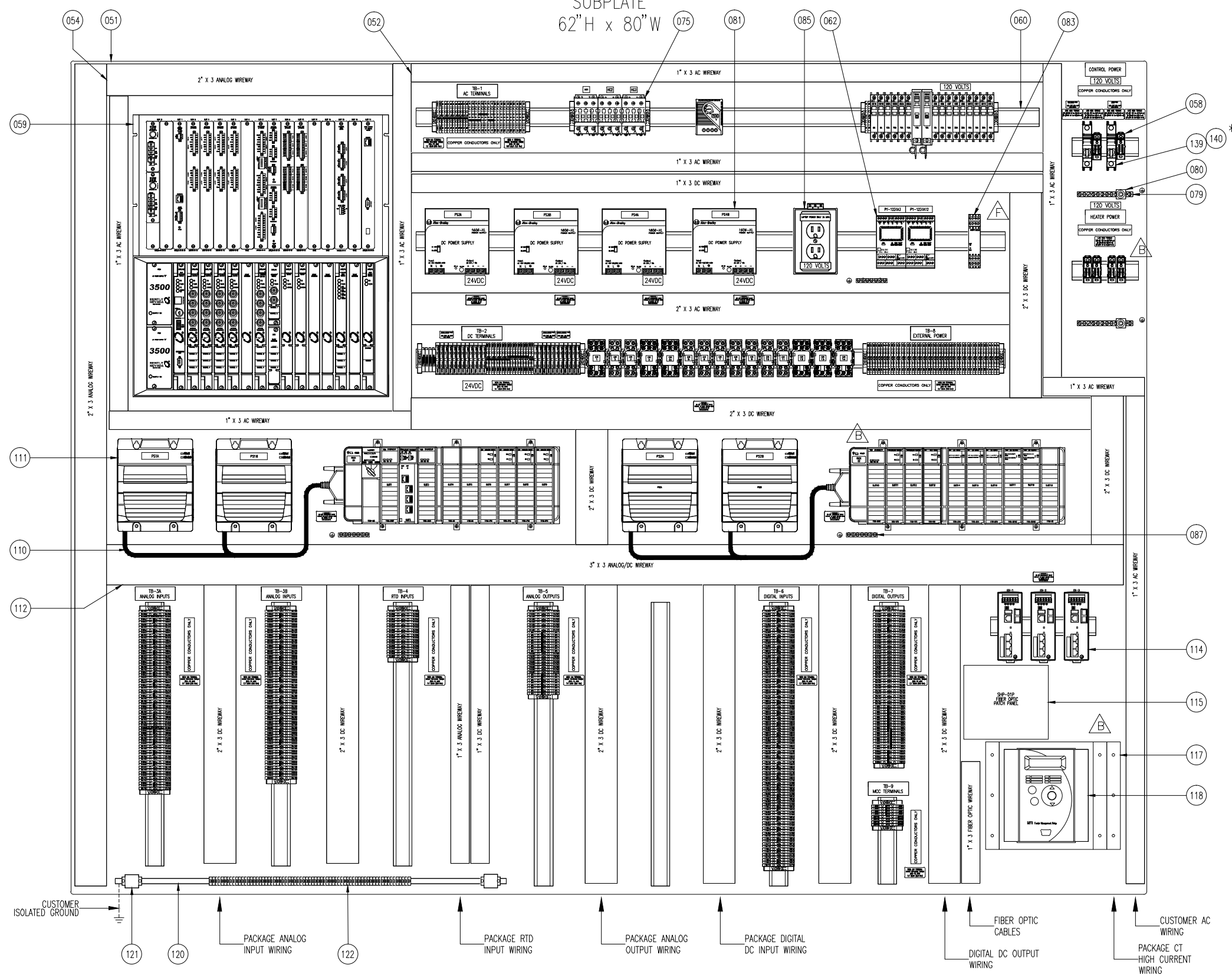
* DENOTES WIRING AND EQUIPMENT
 CHANGE MADE IN THE PLC FOR
 TRAIN 2 ONLY, REFER TO REVISION
 C OF THE PLC DRAWINGS THAT ARE
 INCLUDED IN THE INSTRUCTION AND
 OPERATIONAL MANUAL (IOM) FOR
 TRAIN 1

THIS DRAWING CERTIFIED
 FOR SANDRIDGE ENERGY
 ORDER NO. 294100
YORK REFRIGERATION
 Waynesboro, PA
 PER R.OLIVER DATE 5/4/09

TRAIN 2 Δ

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NOTICE TO PURCHASER: REFER TO CONTRACT FOR MATERIAL TO BE SUPPLIED BY JCI/YORK. THE AMOUNT OF SUCH MATERIAL IS NOT INCREASED BY ANYTHING SHOWN UPON THIS DRAWING.		PURCHASER: SANDRIDGE ENERGY 1601 N.W. EXPRESSWAY SUITE 1600 OKLAHOMA CITY, OK 73118 PURCH ORDER NO: 294100	
TITLE YPS - PLC CONTROL SYSTEM PLC CONTROL PANEL ASSEMBLY & WIRING DIAGRAM		SHEET DETAIL CONTROL PANELS FRONT	
SIZE D 23587		DWG NO 645D1279	
SCALE 1:6		SHEET 34 OF 40	
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES DO NOT SCALE		ORDER NO. 294100	
UNLESS OTHERWISE SPECIFIED TOLERANCES PER ASME		YORK REFRIGERATION Waynesboro, PA	
DEC 20 E. 0.01 ± 1/4"	DEC 20 E. 0.005 ± 1/16"	DATE 01/23/09	REV F
DR. D. BURKHOLDER	APP'D R. OLIVER	DATE 04/08/09	CODE

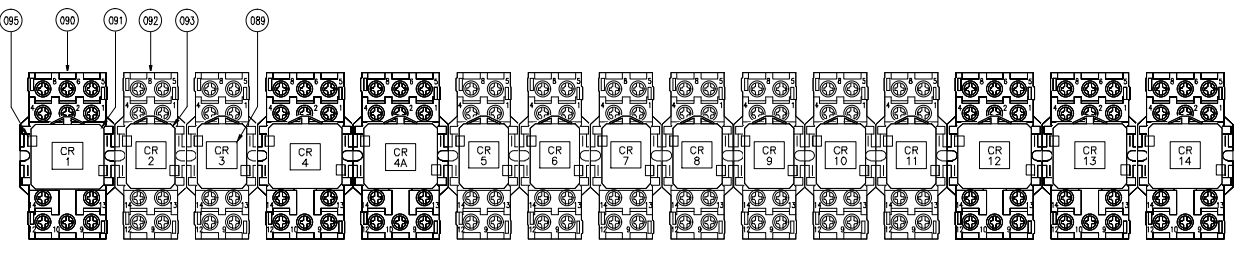
SUBPLATE
62" H x 80" W



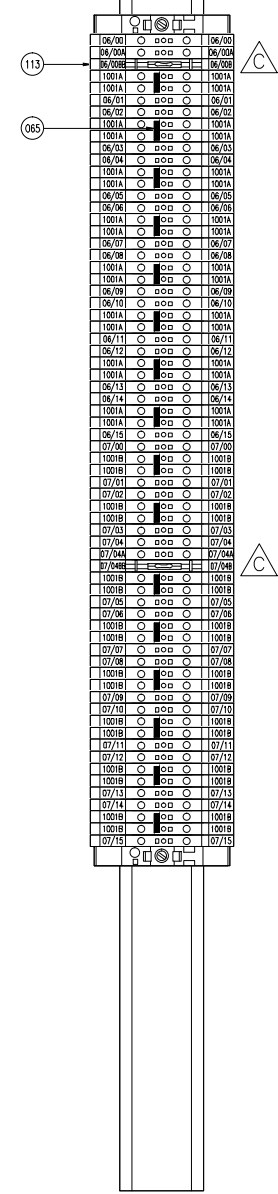
TRAIN 2 Δ
THIS DRAWING CERTIFIED
FOR SANDRIDGE ENERGY
ORDER NO. 294100
YORK REFRIGERATION
Waynesboro, PA
PER R. OLIVER DATE 5/4/09

<p>UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES DO NOT SCALE</p> <p>UNLESS OTHERWISE SPECIFIED TOLERANCES PER ASME Y14.5</p> <p>DEC. 20 ± 0.01</p> <p>DR. D. BURKHOLDER</p> <p>CHK. J. COOK</p> <p>APPD. R. OLIVER</p> <p>CODE</p>		<p>DATE SPEC'D 01/23/09</p> <p>DATE DES'G 04/08/09</p> <p>DATE CON'G 04/08/09</p>	<p>SCALE 1:4</p> <p>SHEET 35 OF 40</p>	<p>DATE 04/08/09</p> <p>REV F</p> <p>DATE 04/08/09</p>	<p>SIZE D</p> <p>SIZE CODE 23587</p> <p>DWG NO 645D1279</p>	<p>REV F</p> <p>DATE 04/08/09</p>	<p>PURCH ORDER NO 294100</p> <p>YORK ORDER NO 27607-P-13-012(C)</p>	<p>PURCHASER SANDRIDGE ENERGY</p> <p>1601 N.W. EXPRESSWAY SUITE 1600</p> <p>OKLAHOMA CITY, OK 73118</p>	<p>NOTICE TO PURCHASER: REFER TO CONTRACT FOR MATERIAL TO BE SUPPLIED BY JCI/YORK. THE AMOUNT OF SUCH MATERIAL IS NOT INCREASED BY ANYTHING SHOWN UPON THIS DRAWING.</p>	<p>THIS DRAWING AND THE SUBJECT MATTER IT CONTAINS ARE PROPERTY OF JOHNSON CONTROLS/YORK COMPANY. IT MAY NOT BE USED, NOR COPIED FOR DISTRIBUTION, BEYOND THE REQUIREMENTS OF THE PROJECT REFERENCED ON THIS DRAWING.</p> <p>© COPYRIGHT 01/23/09 JCI/YORK. ALL RIGHTS RESERVED</p>	<p>Johnson Controls</p> <p>YORK Process Systems</p> <p>100 CV AVE P.O. BOX 997 Waynesboro, PA 17268</p>
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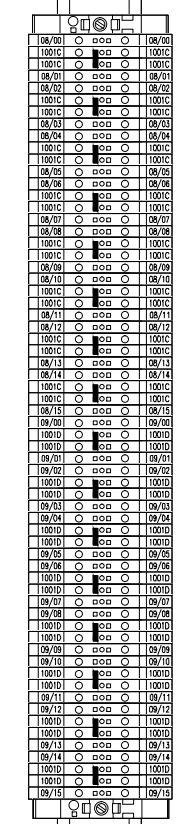
TITLE
YPS - PLC CONTROL SYSTEM
PLC CONTROL PANEL ASSEMBLY &
WIRING DIAGRAM
BACKPLATE LAYOUT



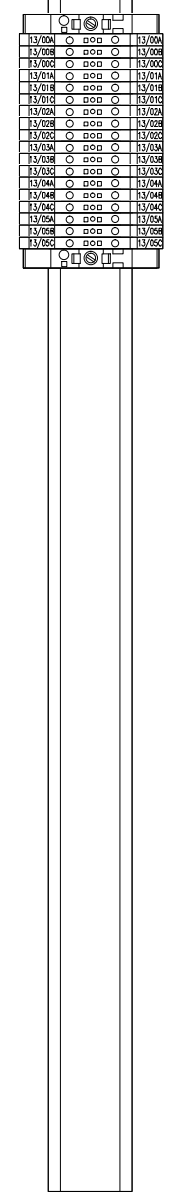
TB-3A
ANALOG INPUTS



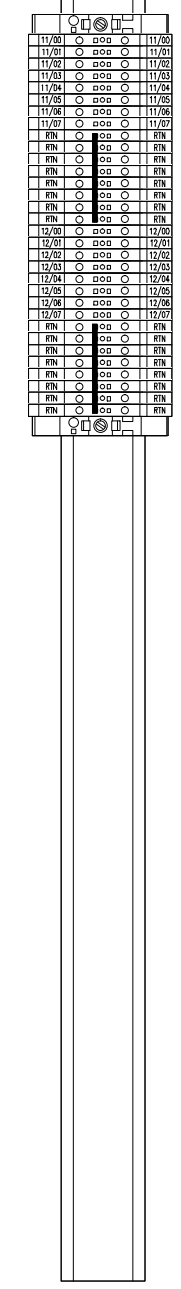
TB-3B
ANALOG INPUTS



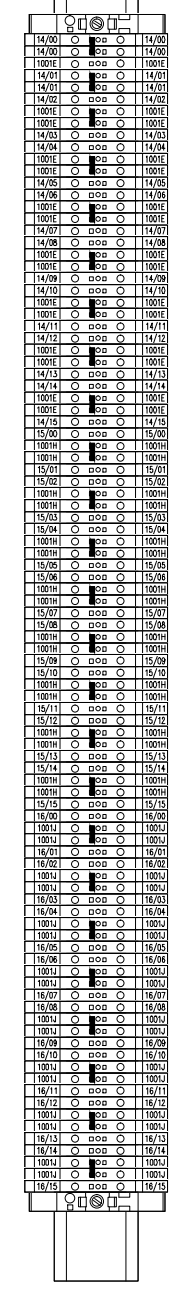
TB-4
RTD INPUTS



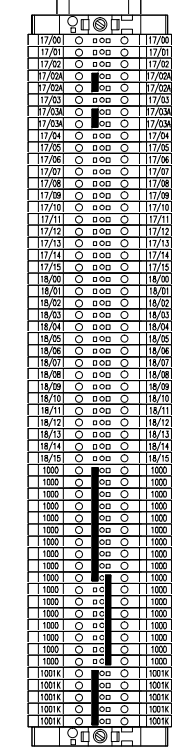
TB-5
ANALOG OUTPUTS



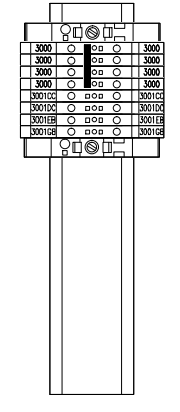
TB-6
DIGITAL INPUTS



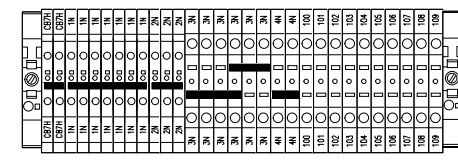
TB-7
DIGITAL OUTPUTS



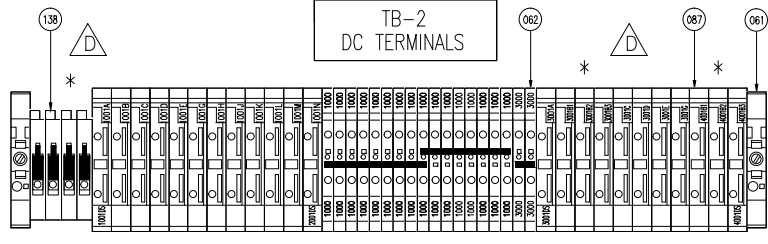
TB-9
MCC TERMINALS



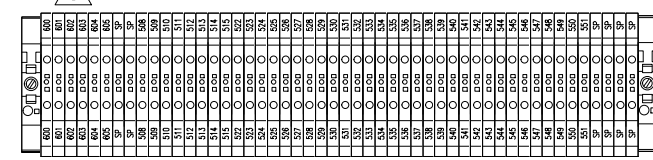
TB-1
AC TERMINALS



TB-2
DC TERMINALS



TB-8
EXTERNAL POWER



TRAIN 2

* DENOTES WIRING AND EQUIPMENT CHANGE MADE IN THE PLC FOR TRAIN 2 ONLY, REFER TO REVISION C OF THE PLC DRAWINGS THAT ARE INCLUDED IN THE INSTRUCTION AND OPERATIONAL MANUAL (IOM) FOR TRAIN 1

THIS DRAWING CERTIFIED FOR SANDRIDGE ENERGY
 ORDER NO. 294100
 YORK REFRIGERATION
 Waynesboro, PA
 PER R.OLIVER DATE 5/4/09

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES DO NOT SCALE

UNLESS OTHERWISE SPECIFIED TOLERANCES PER ASME Y14.5

DATE CODE D 23587

SIZE D

SHEET 36 OF 40

YORK Process Systems
 Johnson Controls

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PURCHASER: SANDRIDGE ENERGY
 1601 N.W. EXPRESSWAY SUITE 1600
 OKLAHOMA CITY, OK 73118

FORK ORD NO 294100
 PURCH ORD NO 21607-P-13-012/CI

TITLE: YPS - PLC CONTROL SYSTEM
 PLC CONTROL PANEL ASSEMBLY & WIRING DIAGRAM
 TERMINALS & RELAYS

645D1279

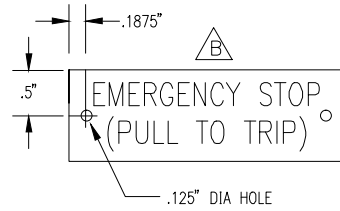
REV F

DR. D. BURKHOLDER
 CHK. J. COOK
 APP'D R. OLIVER

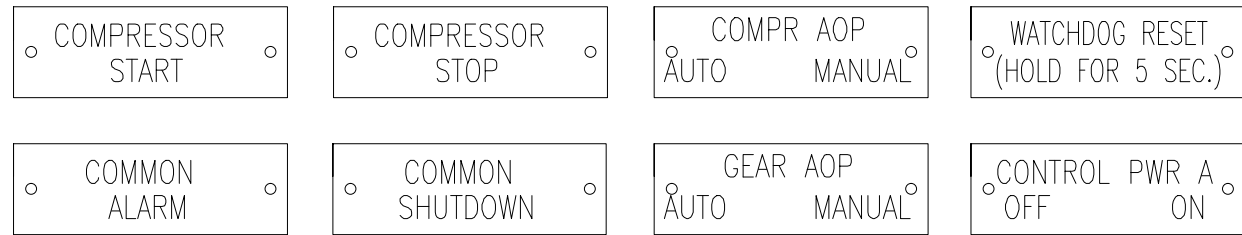
DATE: 01/23/09
 04/08/09
 04/08/09

SCALE: 1:1.5

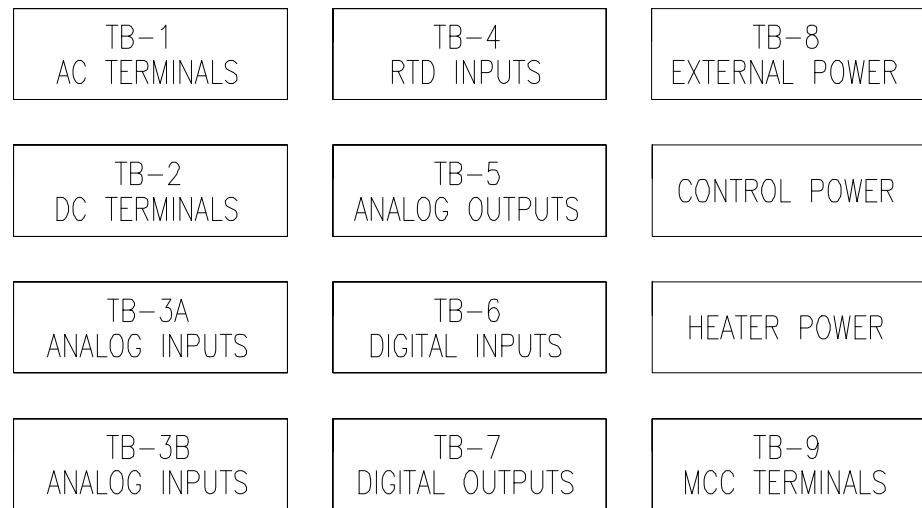
NAMEPLATE #7 TO BE 1" X 3" RED 2 PLY ACRYLIC, HIGH GLOSS FINISH WITH .25" WHITE LETTERING, FRONT ENGRAVED, ADHESIVE BACKED WITH 3M 468MP TRANSFER TAPE. ATTACH WITH STAINLESS STEEL SCREWS, SEE NAMEPLATE MOUNTING HOLE DETAIL.



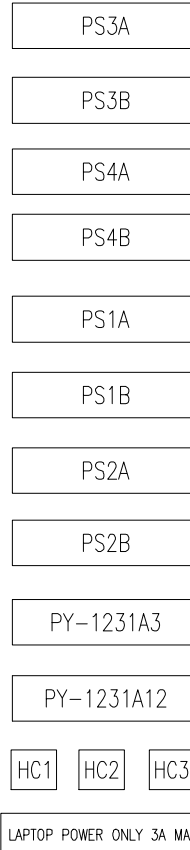
NAMEPLATES TO BE 1" X 3" WHITE 2 PLY ACRYLIC, HIGH GLOSS FINISH WITH .25" BLACK LETTERING, ADHESIVE BACKED WITH 3M 468MP TRANSFER TAPE. ATTACH WITH STAINLESS STEEL SCREWS



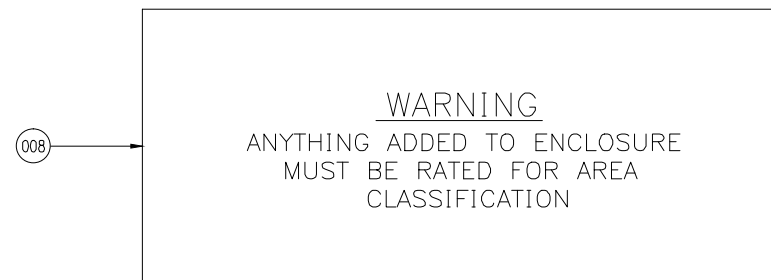
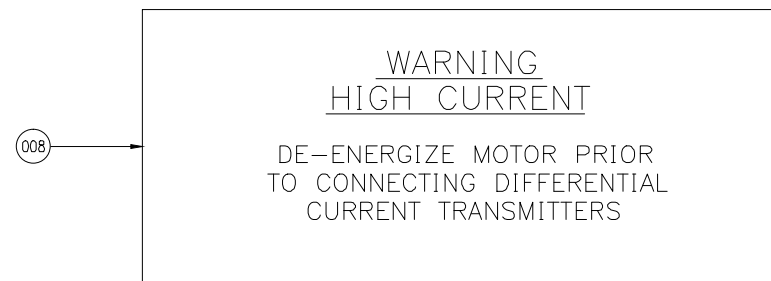
NAMEPLATES TO BE 1" X 3" WHITE 2 PLY ACRYLIC, HIGH GLOSS FINISH WITH .25" BLACK LETTERING, ADHESIVE BACKED WITH 3M 468MP TRANSFER TAPE.



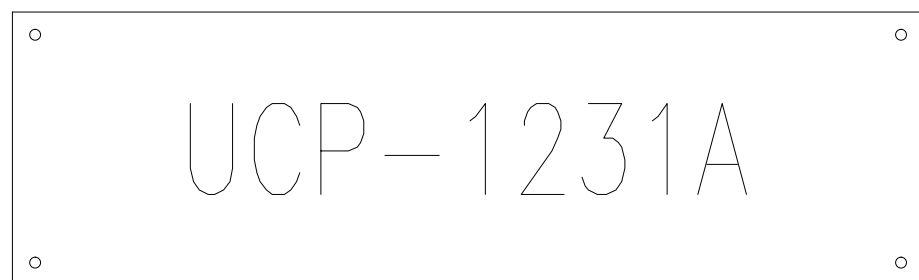
NAMEPLATE TO BE 3.5" X 7.5" WHITE WITH "YORK PROCESS SYSTEMS" BLACK LETTERING AND BLACK LOGO & "JOHNSON CONTROLS", ADHESIVE BACKED. ATTACH WITH STAINLESS STEEL SCREWS



NAMEPLATES TO BE 3" X 7" RED 2-PLY WITH .375" WHITE LETTERS, ADHESIVE BACKED



NAMEPLATE TO BE 3" X 10" WHITE 2 PLY PHENOLIC, HIGH GLOSS FINISH WITH 1" BLACK LETTERING, ADHESIVE BACKED.



MiniPurge Control System

Relief Valve type: 07 12LCipm/IS
System Type: LC
Serial No: 2008/M317683

Supply Pressure	4-8 barg	60-115 p.s.i.
Low Pressure Sensor	0.5 mbarg	0.2 "wg
Purge Flow Rate	450 Nl/min	16 scfm
Relief Valve	RLV36/F5/SS	
Relief Valve Lift Off	1.0 mbarg	4 "wg
Purge Time	55 min	0 sec

Ex [pz] II T6 Tamb -20°C to +56°C
Ex pD II 21 T85°C

IEC IECEx
IECEx SIR07 0027X
SIRA 01ATEX1295X

CE 0518 II 3 (2) GD
Class I Div. 2 Groups A B C and D
Type Z Pressurization

For use in hazardous locations in accordance with National Fire Protection Association Standard for Purged and Pressurized Enclosures for Electrical Equipment NFPA 496 2003

When integral switch is fitted it is Ex nA / NI or Intrinsically Safe when installed in accordance with Expo Control Drawing: EP80-2-11 Manual Ref: ML447

Expo Technologies Ltd. Summer Road
Thames Ditton, Surrey, England KT7 0RH
UK
Tel +44 (0) 20 8398 8011 (440) 247 5314
Fax +44 (0) 20 8398 8014 (440) 247 5409

WARNING - PRESSURIZED ENCLOSURE

This Pressurized Enclosure shall not be opened even when all devices within have been de-energized, unless the area is known to be free of flammable materials.

Hazardous Locations (Tick as Appropriate)

Class I Div 2 - Type Z Purge
Zone 2 - Ex [pz]

Power shall not be restored after the enclosure has been opened until the enclosure has been purged for:

53 Minutes
at a flow rate of: 16 cu ft/minutes

Pressurized Enclosure Type: NMX
Serial No: 294100-X

Expo-Teletron Safety Systems Ltd. summer Road
Thames Ditton, Surrey, England KT7 0RH
TEL: +44 (0) 20 8398 8011
FAX: +44 (0) 20 8398 8014

VARIOUS POLYESTER LABELS WITH BLACK TEXT

CONTROL-(x)115AC ()230AC ()24DC
HEATERS-(x)115AC ()230AC

CONTROL _____ HEATERS _____

PHASE _____ HERTZ _____

I.D. CODE _____

MANUFACTURED BY FRICK CO.
WAYNESBORO PA

INDUSTRIAL CONTROL PANEL CHECK OUT

SALES ORDER NO. 294100
PANEL DRAWING NO. 645D1279
WIRING DRAWING NO. 645D1279

WIRED BY: _____
QC CHECKED BY: _____ DATE: _____
RELEASED BY: _____ DATE: _____

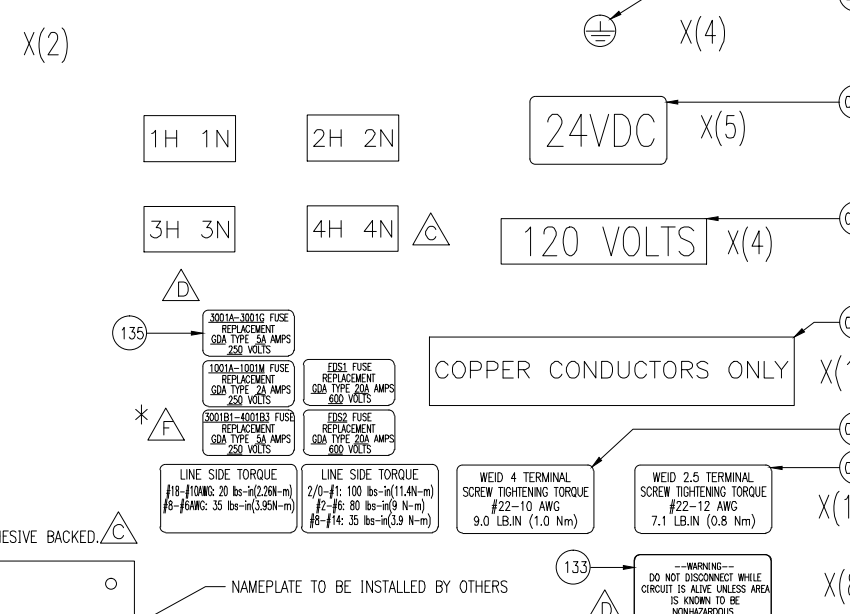
CONTROL PANEL FOR CLASS 1, DIV. 2, GROUPS A,B,C,D HAZARDOUS LOCATIONS

Frick

MODEL # _____ PLC
ELECTRICAL RATING _____
OPERATING TEMP. CODE _____

WARNING!

MORE THAN ONE LIVE CIRCUIT!
SEE WIRING DIAGRAM



THIS DRAWING CERTIFIED FOR SANDRIDGE ENERGY

ORDER NO. 294100

YORK REFRIGERATION
Waynesboro, PA

PER R.OLIVER DATE 5/4/09

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PURCHASER: SANDRIDGE ENERGY
1601 N.W. EXPRESSWAY SUITE 1600
OKLAHOMA CITY, OK 73118

YORK ORD NO 294100

REV F

DATE CODE 23587

SIZE D

SHEET 37 OF 40

YORK ORD NO 294100

YORK REF: 01/23/09
REV: 04/08/09
APP'D: R. OLIVER

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES DO NOT SCALE

UNLESS OTHERWISE SPECIFIED TOLERANCES PER ASME

DEC: 2% ± 0.01
DIP: 0.005
DIP: 0.005
DIP: 0.005

FRAC: ± 1/16
DEC: 1/32
DEC: 1/32
DEC: 1/32

YORK REF: 01/23/09
REV: 04/08/09
APP'D: R. OLIVER

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES DO NOT SCALE

UNLESS OTHERWISE SPECIFIED TOLERANCES PER ASME

DEC: 2% ± 0.01
DIP: 0.005
DIP: 0.005
DIP: 0.005

FRAC: ± 1/16
DEC: 1/32
DEC: 1/32
DEC: 1/32

YORK REF: 01/23/09
REV: 04/08/09
APP'D: R. OLIVER

ITEMS	USER1	USER3	CATALOG	QTY	DESCRIPTION
001	494471	941A0025H03	941A0025H03	1	TUBING, SEAMLESS HYDRAULIC 1/2" X .035" WD
002	495675	944A0180H11	944A0180H11	4	CONNECTOR, S.S., 1/4" NPT TO 1/2" TUBE
003	455044	111Q0280988	111Q0280988	1	ENCLOSURE LIGHT FIXTURE W/ BULB
004	524351	29410075R01	29410075R01	1	ENCLOSURE 72" X 84" X 24"
005	484079	639A0218H02	8012914	1	VORTEX SS 4X ENCL. COOLER 1700BTU
006	484457	640A0059H01	640A0059H01	1	LABEL UL CLASS 1, DIVISION 2, HAZ-LOC.
007	455045	111Q0280989	111Q0280989	1	PULL CHAIN FOR ENCLOSURE LIGHT FIXTURE
008	528164	29410075R05	29410075R05	3	NAMEPLATE AREA CLASSIFICATION
009	492778	911A0004H01	911A0004H01	1	1/2" SS CLOSE NIPPLE
010	492863	911A0088H01	911A0088H01	1	HUB CONNECTOR, 1/2" NPT
011	486013	649A1078H09	2711P-RDT12H	1	PV PLUS 1250 HI-BRIGHT DISPLAY, TOUCH ONLY
012	495695	944A0181H11	944A0181H11	1	ELBOW S.S., 3/8" NPT TO 1/2" TUBE
013	486014	649A1078H10	2711P-RP2	1	PV+ 1250 HI-BRIGHT LOGIC MODULE, 128MB, DC INPUT
014	495676	944A0180H12	944A0180H12	1	CONNECTOR, S.S., 3/8" NPT TO 1/2" TUBE
015	484080	639A0218H05	960-094-087	1	MOD 70 AIR PRESSURE REGULATOR
016	495694	944A0181H10	944A0181H10	1	ELBOW S.S., 1/4" NPT TO 1/2" TUBE
017	483805	639A0142H01	639A0142H01	1	NAMEPLATE JOHNSON CONTROLS YORK PROCESS SYSTEMS
018	535206	29410075R17	29410075R17	1	NAMEPLATE EMERGENCY STOP (PULL TO TRIP)
019	485453	649A0896H43	800T-XD1	3	CONTACT BLOCK - 1 NO
020	485463	649A0896H63	800H-FRXJT6	1	PUSH BUTTON - MUSHROOM (PUSH, PULL)
021	493529	913A0129H02	RLV25H00KUPKIT20	1	20 FOOT HOOK UP KIT
022	528169	29410075R07	29410075R07	6	NAMEPLATE 1" x 3"
023	485454	649A0896H44	800T-XD2	1	CONTACT BLOCK - 1 NC
024	526256	913A0132H01	2ZLC/PM/IS	1	EXPO PURGER I.S. SWITCH
025	485464	649A0896H66	800H-AR1	1	PUSH BUTTON (GREEN) - MOMENTARY, NEMA 4/4X
026	485466	649A0896H68	800H-AR6	1	PUSH BUTTON (RED) - MOMENTARY, NEMA 4/4X
027	484430	640A0015G01	640A0015G01	1	LABEL WARNING MULTIPLE LIVE CIRCUITS
028	485455	649A0896H45	800T-XA	4	CONTACT BLOCK - 1 NO/1 NC
029	485467	649A0896H71	800H-HR2	2	SELECTOR SWITCH - 2 POSITION MAINTAINED, NEMA 4/4X/13
034	528169	29410075R18	29410075R18	1	NAMEPLATE 1" x 3" (WATCHDOG RESET)
035	535202	29410075R16	29410075R16	1	AB ILLUMINATED PUSHBUTTON
036	467128	333Q0001492	D-AH8001B	1	PANEL HEATER 120V
037	493529	913A0129H02	RLV25H00KUPKIT2	1	KIT LEAKAGE COMPENSATION HOOK UP
038	485455	649A0922H16	PS-187-150W-S	2	HEAT SHRINK MARKER 18-12 AWG
039	485610	649A0954H21	GDA-5A	3	FUSE - CLASS GDA 5A
040	485606	649A0954H17	GDA-2A	11	FUSE - CLASS GDA 2A
041	485613	649A0954H24	GDA-10A	4	FUSE - CLASS GDA 10A
042	467114	333Q0001456	164074	1	TERMINAL MARKER
043	467122	333Q0001486	333Q0001486	1	DOUBLE STICK TAPE
044	454979	111Q0280334	TY-175-50	200	TIE WIRE
045	476713	522M0295H01	522M0295H01	100	SCREW, #8-32 X 5/16 G
046	454990	111Q0280693	TC345A	100	TIE WRAP BASE
047	467164	333Q0001583	1641	3	TUBING FLEX, SPLIT
048	484087	639A0220H20	1N4004	18	DIODE, RECTIFIER
049	484467	640B0018G02	640B0018G02	1	LABEL UL RATING ECS CHECKOUT W/O UL#
050	484448	640A0048G01	640A0048G01	1	LABEL CHECK OUT
051	524654	29410075R02	29410075R02	1	SUBPLATE 62" X 80"
052	483875	639A0168G37	639A0168G37	3	1" x 3" WIREWAY
053	528170	29410075R08	29410075R08	12	NAMEPLATE 1" x 3"
054	483876	639A0168G57	639A0168G57	3	2" x 3" WIREWAY
055	483848	639A0158H01	1492-MCEA115	2	15A, 1-POLE, 120VAC GFEP (30mA)
056	485590	649A0945G03	649A0945G03	4	LABEL 120 VOLTS
057	485237	649A0181H01	649A0181H01	11	LABEL COPPER CONDUCTORS ONLY
058	484039	639A0205H08	EPBAD442	6	POWER DISTRIBUTION BLOCK DIN RAIL MOUNTABLE ENCLOSED
059	526272	29410075R12	29410075R12	1	BENTLY NEVADA 3500 SYSTEM
060	467259	333Q0001878	0514500000	25	DINRAIL
061	467022	333Q0001187	1061200000	24	END BRACKET - WEW 35/2
063	467019	333Q0001184	1020100000	18	TERM BLK WDU 4 .240
064	483923	639A0175H14	1762620000	1	TERMINAL JUMPER ,4PL,6MM,#1762620000
065	483912	639A0175H02	1693800000	61	TERMINAL JUMPER ,2PL,5MM,#1693800000
067	483913	639A0175H03	1693810000	1	TERMINAL JUMPER ,3PL,5MM,#1693810000
068	484048	639A0206H06	QL18KM06	2	CIRCUIT BRK,6A,WD #9926251006
069	484050	639A0206H10	QL18KM10	4	CIRCUIT BRK,10A,WD #9926251010
070	483849	639A0158H20	1492-AMCDIN1	2	DIN RAIL MOUNTING ADAPTER, #1492-AMCDIN1
071	484047	639A0206H05	QL18KM05	1	CIRCUIT BRK,5A,WD #9926251005
072	484053	639A0206H15	QL18KM15	5	CIRCUIT BRK,15A,WD #9926251015
073	484056	639A0206H25	QL18KM25	2	CIRCUIT BRK,25A,WD #9926251025
074	484055	639A0206H20	QL18KM20	1	CIRCUIT BRK,20A,WD #9926251020
075	485868	649A1025H65	3RT10 26-1BB40	3	25A CONTACTOR - 24VDC COIL
076	484454	640A0056G02	640A0056G02	1	LABEL WEID 4

ITEMS	USER1	USER3	CATALOG	QTY	DESCRIPTION
077	484453	640A0056G01	640A0056G01	10	LABEL WEID 2.5
078	484446	640A0045G01	640A0045G01	5	LABEL EARTH GROUND SYMBOL
079	535203	639A0220H16	ECCB10	2	GROUND BAR 10 HOLE
080	535204	639A0220H17	ECLK2	2	NEUTRAL LUG KIT
081	485893	649A1036H22	1606-XL240DR	4	POWER SUPPLY (+24VDC @ 10A) #1606-XL240DR
082	484083	639A0219H03	SPA2/HLPRG/2PRG/JDC-A0	2	SPA2 MODULE DC
083	535201	29410075R15	29410075R15	1	GUARDMASTER SAFETY RELAY #MSR132ED
084	485347	649A0280G01	649A0280G01	5	LABEL 24 VOLTS
085	466843	333Q0000118	GB5	3	GROUND BAR 5 HOLE
086	483909	639A0173H02	120VAC_RECEPTACLE	1	120VAC DUPLEX RECEPTACLE
087	467194	333Q0001671	1011000000	23	FUSE TERMINAL - WSI 6
088	483918	639A0175H08	1693860000	4	TERMINAL JUMPER ,8PL,5MM,#1693860000
089	484134	639A0227G01	639A0227G01	15	LABEL CR
090	466849	333Q0000207	SH3B-05C	6	RELAY SOCKET, 3PDT
091	466897	333Q0000520	RH3B-ULC-24VDC	4	REL 3PDT 10AMP #RH3B-ULC-24DC
092	466846	333Q0000195	SH2B-05C	9	RELAY SOCKET, DPDT
093	466896	333Q0001095	RH2B-ULC-24VDC	12	REL DPDT 10AMP #RH2B-ULC-24DC
094	483917	639A0175H07	1693850000	1	TERMINAL JUMPER ,7PL,5MM,#1693850000
095	466847	333Q0000196	SFA-101	30	SPRING LEAF HOLD DOWN
096	485939	649A1048H03	1756-A10	2	1756 CONTROL LOGIX RACK I/O, 10 SLOT CHASSIS
097	485944	649A1048H16	1756-PSCA	2	1756 CONTROL LOGIX REDUNDANT PS ADAPTER
098	485947	649A1048H27	1756-L61	1	A-B 1756-L61, Logix 5561 Proc. 2MB Mem. & Compact Flash Socket
099	485949	649A1048H30	1756-ENBT	3	A-B 1756-ENBT, C.L. ETHERNET ADAPTER
100	485955	649A1048H39	MV16-MNETR	1	MODBUS ETHERNET ADAPTER
101	485971	649A1048H93	1756-N2	3	1756 CONTROL LOGIX RACK I/O, CARD SLOT FILLER
102	485970	649A1048H89	1756-TBCH	4	1756 CONTROL LOGIX 36PT REMOVABLE TERIMAL BLOCK
103	485963	649A1048H72	1756-IF16	4	A-B 1756-IF16, C.L. 16PT A.I. CARD
104	485966	649A1048H78	1756-OFB	2	A-B 1756-OFB, C.L. BPT ANALOG OUTPUT CARD
105	485969	649A1048H88	1756-TBNH	8	1756 CONTROL LOGIX 20PT REMOVABLE TERIMAL BLOCK
106	485964	649A1048H73	1756-IR6I	1	A-B 1756-IR6I, C.L. 6PT RTD INPUT CARD
107	485957	649A1048H46	1756-IB16	3	A-B 1756-IB16, C.L. (10-31VDC) 16PT DIGITAL INPUT CARD
109	485960	649A1048H66	1756-OB16E	2	A-B 1756-OB16E, C.L. 24VDC 16PT DIGITAL OUTPUT CARD
110	485945	649A1048H17	1756-CPR	4	1756 CONTROL LOGIX REDUNDANT POWER SUPPLY CABLE
111	485943	649A1048H14	1756-PA75R	4	A-B 1756-PA75R, C.L. 85-265VAC PS (5V@13A/95W Input)
112	483877	639A0168G77	639A0168G77	2	3" x 3" WIREWAY
113	483931	639A0177G28	WA2360J	2	TERMINAL - WTR 2.5 W/220 OHM RESISTOR
114	524355	29410075R04	29410075R04	3	FIBER OPTIC MODULE
115	526269	29410075R09	SHP-01P	1	FIBER OPTIC PATCH PANEL
116	483920	639A0175H10	1693880000	1	TERMINAL JUMPER ,10PL,5MM,#1693880000
117	526271	29410075R11	29410075R11	1	MIFI MOUNTING BRACKET
118	526268	29410075R03	29410075R03	1	MIFI DIGITAL FEEDER RELAY
119	483914	639A0175H04	1693820000	1	TERMINAL JUMPER ,4PL,5MM,#1693820000
120	506005	639A0220H01	34890000000	1	BUSBAR 10MM X 3MM X 1M
121	506006	639A0220H02	29986000000	2	BUSBAR SUPPORT BLOCK
122	484084	639A0220H03	1261300000	69	BUSBAR CLAMPING YOKE
123	485291	649A0214H34	649A0214H34	3	7FT. CAT5 E MOLDED PATCH CABLE, BLUE (#EEDD-C807-MBL)
124	485292	649A0214H35	649A0214H35	3	14FT. CAT5 E MOLDED PATCH CABLE, BLUE (#EEDD-C814-MBL)
125	483922	639A0175H13	1762630000	1	TERMINAL JUMPER ,3PL,6MM,#1762630000
126	483921	639A0175H12	1758250000	1	TERMINAL JUMPER ,2PL,6MM,#1758250000
127		29410075R20	800HC-16HRWH2KB6	2	ILLUMINATED SELECTOR SWITCH 2 POS. MAINT. LED
128		29410075R21	800TC-XD1M	8	MAX DUTY CONTACT BLOCK N.O.
130		29410075R22	29410075R22	2	1" X 3" NAMEPLATE (EXTERIOR)
131	455599	111Q0940175	111Q0940175	4	WASHER FLAT #10 SS
132		29410075R23	29410075R23	1	NAMEPLATE 3"H x 10"W
133	485348	649A0280G02	649A0280G02	8	LABEL WARNING DO NOT DISCONNECT WHILE ALIVE
135	484431	640A0016G01	640A0016G01	5	LABEL FUSE REPLACEMENT
136		29410075R24	800H-QRH24A	1	PILOT LIGHT AMBER, 24V, LED
137		29410075R25	800H-QRH24R	1	PILOT LIGHT RED, 24V, LED
138	484107	639A0222H31	0172160000	4	DISCONNECT TERMINAL BLOCK - SAK 4 EN
139		649A0964H44	CCP-1-30CC	2	COMPACT CIRCUIT PROTECTOR - 1P
140		649A0964H05	LP-CC-20	1	FUSE - CLASS CC 20A
141	483915	639A0175H05	1693830000	1	TERMINAL JUMPER ,5PL,5MM,#1693830000
142	483919	639A0175H09	1693870000	1	TERMINAL JUMPER ,9PL,5MM,#1693870000

TRAIN 2 

FOR THIS DRAWING CERTIFIED
 SANDRIDGE ENERGY
 ORDER NO. 294100
 YORK REFRIGERATION
 Waynesboro, PA
 PER R.OLIVER DATE 5/4/09

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PURCHASER: SANDRIDGE ENERGY
 1601 N.W. EXPRESSWAY SUITE 1600
 OKLAHOMA CITY, OK 73118
 PURCH ORDER NO. 271607-P-13-012/CI
 YORK ORDER NO. 294100

TITLE: YPS - PLC CONTROL SYSTEM
 PLC CONTROL PANEL ASSEMBLY & WIRING DIAGRAM
 BILL OF MATERIALS



REV: F
 SHEET 38 OF 40
 DWG NO. 645D1279
 DATE CODE: 23587
 SIZE: D
 SCALE: 1" = 1"

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES DO NOT SCALE







DATE DIMENSIONS REVISED: 04/08/09
 TOLERANCES PER ASME: FRACTIONAL ± 1/4" ± 1/2" DECIMAL ± .01" ± .005" ± .001" HOLE FINISH ± .0008" SURFACE FINISH

DR. D. BURKHOLDER
 CHK. J. COOK
 APP'D R. OLIVER
 CODE

100% BY ASME
 P.O. BOX 997
 Johnson Controls
 Milwaukee, WI 53208



- 1.) AREA CLASSIFICATION: OUTDOOR, CLASS I GROUP C&D, DIV 2
- 2.) REFERENCE DRAWINGS:
 ELECTRICAL DIAGRAM LEGEND :640D0088
 GEAR PROXIMATOR JUNCTION BOX :648D2384
 COMPRESSOR PROXIMATOR JUNCTION BOX :648D2383
 PLC CONTROL PANEL LAYOUT & WIRING DIAGRAM :645D1279
 P & ID COMPRESSOR LUBE OIL: 659D2146
 GENERAL ARRANGEMENT, COMPRESSOR LUBE OIL MODULE: 569D2560
 P & ID GEAR/MOTOR LUBE OIL: 659D2147
 GENERAL ARRANGEMENT, GEAR/MOTOR LUBE OIL MODULE: 569D2561
 P & ID REFRIGERANT OIL COOLERS: 659D2148
 GENERAL ARRANGEMENT, COMPRESSOR DRIVELINE: 569D2540
 P & ID R-134A REFRIGERATION SYSTEM: 659D2149
 PNEUMATIC/ELECTRICAL DIAGRAM: 669D0124
 LOGIC DIAGRAM: 669D0127
- 3.) CONTROL POWER: 120V/1PH/60HZ.
 HEATER POWER: 120V/1PH/60HZ.
- 4.) NO THREE PHASE WIRING SHALL ENTER OR LEAVE THE JCI/YPS CONTROL PANEL OR BE RUN IN THE SAME CONDUIT AS ANY CONTROL WIRING ENTERING OR LEAVING THE JCI/YPS CONTROL PANEL.
- 5.) NO SINGLE PHASE OVER 300 VOLTS SHALL ENTER OR LEAVE THE JCI/YPS SUPPLIED CONTROL PANEL.
- 6.) CONTROL WIRING TO BE #14 AWG STRANDED WIRE UNLESS SPECIFIED OTHERWISE. TYPE: THHN-THWN 600V
 24VDC DEVICE COLOR WIRING
 POSITIVE (+) - BLUE (BLU)
 NEGATIVE (-) - BLACK (BLK)
 ALL HEATER (POWER) WIRING TO BE #12 AWG STRANDED WIRE UNLESS SPECIFIED OTHERWISE SIZED PER LOAD REQUIREMENTS. TYPE: THHN-THWN 600V
 POWER (H) - BLACK (BLK)
 NEUTRAL (N) - WHITE (WHT)
 ALL CT'S TO BE WIRIED WITH 10 AWG BLACK (BLK) TYPE: THHN-THWN 600V
- 7.) ALL NEUTRAL WIRING TO BE WHITE STRANDED WIRE UNLESS SPECIFIED OTHERWISE.
- 8.) ASSEMBLE AND WIRE UNIT IN ACCORDANCE WITH ELECTRICAL FABRICATION NOTE DRAWING: 649A0246
- 9.) A SURGE SUPPRESSOR OR MOV TO BE INSTALLED ACROSS ALL INDUCTIVE LOADS IN CONTROL CENTER.
 SURGE SUPPRESSOR
 SUPPRESSOR SPECIFICATIONS:
 RC NETWORK CONSISTING OF A .1 MFD CAPACITOR, 600 VDC IN SERIES WITH A 47 OHM RESISTOR.
 USE ELECTROCUBE #RG2031-3-6 OR EQUAL.
 VARISTOR
 METAL OXIDE VARISTOR (MOV) SPECIFICATIONS:
 GE #V130LA10A OR EQUAL FOR 110 VOLTS

JOB SPECIFIC NOTES:

- 10.) SPECIAL NOTES FOR PROJECT:
- 10.1) TERMINAL SYMBOL DESIGNATIONS:
 -  PLC/MOTOR STARTER INTERFACE
 -  TERMINALS IN GEAR PROXIMATOR BOX
 -  TERMINALS IN COMPRESSOR PROXIMATOR BOX
 -  PLC CONTROL PANEL
 -  INTERMEDIATE ANALOG BOX FOR CUSTOMER CONNECTIONS
- 10.2) STANDARD FLOOR STOCK RIGID GALVANIZED CONDUIT, MINIMUM SIZE IS 1/2"
- 10.3) ALL DEVICES AND / OR ENCLOSURES REQUIRING SEAL FITTINGS WILL BE INSTALLED WITHIN 18 INCHES. ALL SEALS AND FITTINGS BETWEEN THE SEAL AND THE DEVICE WILL BE RATED FOR THE REQUIRED AREA CLASSIFICATION. ALL SEALS ARE TO BE CROUSE HINDS STEEL EYS SERIES, AND TO BE POURED AFTER UNIT HAS BEEN INSTALLED AND ALL WIRING HAS BEEN VERIFIED.
- 10.4) ——— JCI/YPS PANEL/ENCLOSURE WIRING
 - - - WIRING BY OTHERS
 - . - JCI/YPS SKID WIRING
- 10.5) THE USE OF FLEX CONDUIT SHALL BE KEPT TO A MINIMUM AND SHALL BE USED ONLY ON DEVICES WHERE VIBRATION MAY OCCUR, TWO FOOT MAXIMUM LENGTHS AT DEVICE ONLY, ALL FLEX CONDUIT TO HAVE EXTERNAL GREEN 14AWG WIRE INSTALL.
- 10.6) CABLE TRAY FOR PROXIMATOR CABLES TO BE GROUNDED TO BASE WITH #14 AWG GREEN WIRE.
- 10.7) COMPRESSOR AND GEAR BOX ARMOR SHIELDED PROXIMATOR CABLES TO BE IN DEDICATED CABLE TRAY. SUPPORT AS NEEDED PRIOR TO ENTERING CABLE TRAY.
-  10.8) TAG NUMBERS SHOWN ARE FOR TRAIN 2 ITEM 8000, LETTER "A" IN TAG NUMBER SHALL BE SEQUENCED "1331B" THRU "1331E" FOR ITEMS 9000 THRU 12000.
- 10.9) ALL SKID MOUNTED 24VDC DEVICES THAT HAVE PIGTAILS WILL BE CONNECTED LOCALLY AT THE DEVICE USING A MALLEABLE IRON "GR" SERIES CONDUIT BOX WITH TERMINALS (APPLETON) WITH MALLEABLE IRON COVER AND NEOPRENE O-RINGS
- 10.10) ALL CONDUIT IS GALVANIZED RIGID STEEL (1/2 INCH MIN), ALL CONDUIT FITTINGS TO BE CROUSE HINDS FORM 7 FERALOY IRON WITH FERALOY COVERS AND NEOPRENE GASKETS OR APPROVED EQUIVALENT.
- 10.11) ALL SKID MOUNTED AC DEVICES WILL BE CONNECTED LOCALLY AT THE DEVICE USING CRIMP ON RING TYPE CONNECTORS.
- 10.12) ALL SKID MOUNTED INSTRUMENTS TO BE CONNECTED WITH FORK CRIMP ON CONNECTORS.

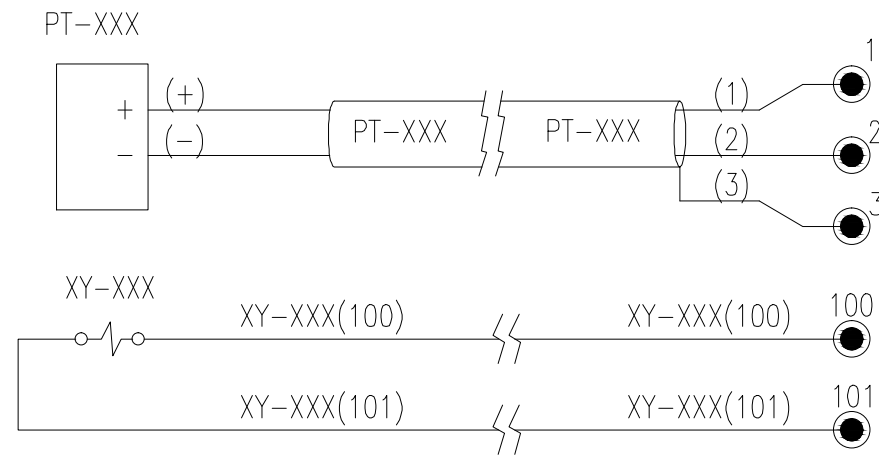
TRAIN 2 

THIS DRAWING CERTIFIED
 FOR SANDRIDGE ENERGY
 ORDER NO. 294100
 YORK REFRIGERATION
 Waynesboro, PA
 PER R.OLIVER DATE 5/4/09

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NOTICE TO PURCHASER: REFER TO CONTRACT FOR MATERIAL TO BE SUPPLIED BY JCI/YORK. THE AMOUNT OF SUCH MATERIAL IS NOT INCREASED BY ANYTHING SHOWN UPON THIS DRAWING.		PURCHASER: SANDRIDGE ENERGY 1601 N.W. EXPRESSWAY SUITE 1600 OKLAHOMA CITY, OK 73118 PURCH ORDER NO: 27607-P-13-012JCI	
TITLE: YPS - PLC CONTROL SYSTEM PLC CONTROL PANEL ASSEMBLY & WIRING DIAGRAM		PROJECT NOTES DRAW NO: 645D1279	
SHEET DETAIL: PROJECT NOTES		SHEET 39 OF 40	
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES DO NOT SCALE		DATE CODE: 23587 SIZE: D SCALE:	
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES DO NOT SCALE		DEC 31 ± 1/4 JAN 31 ± 1/8 FEB 31 ± 1/8 MAR 31 ± 1/8 APR 31 ± 1/8 MAY 31 ± 1/8 JUN 31 ± 1/8 JUL 31 ± 1/8 AUG 31 ± 1/8 SEP 31 ± 1/8 OCT 31 ± 1/8 NOV 31 ± 1/8 DEC 31 ± 1/8	
DR: D. BURKHOLDER CHK: J. COOK APPD: R. OLIVER CODE:		01/23/09 04/08/09 04/08/09	

- 10.13) STANDARD HOT DIPPED GALVANIZED UNISTRUT WELDED TO THE BASE FOR ALL CONDUIT SUPPORTS, WITH STANDARD ELECTROPLATED CONDUIT CLAMPS. ALL CONDUIT, CONDUIT FITTINGS, AND CLAMPS (EXCEPT FLEX) TO BE PAINTED.
- 10.14) A CONDUIT UNION WILL BE INSTALLED AT THE DEVICE AND INSTRUMENT PRIOR TO THE CONDUIT OR FLEX CONNECTION.
- 10.15) FERRULES WILL BE INSTALLED ON ALL FIELD WIRING/ CABLE IN THE ENCLOSURE AND LOCAL GR BOXES ONLY.
- 10.16) HEAT SHRINK WIRE MARKERS TO BE INSTALLED ON ALL WIRING TO INCLUDE ORIGIN / TAG # / DESTINATION WITH THE ORIGIN NEXT TO THE TERMINAL NUMBER.

EXAMPLE:



- 10.17) ALL SKID CABLES TO BE 18AWG / PAIR / TRI - 300 VOLT
4-20mA
POSITIVE (+) - BLACK (BLK)
NEGATIVE (-) - WHITE (WHT)
RTD
SIGNAL - RED (RED)
RTN - BLACK (BLK)
RTN - WHITE (WHITE)
BENTLY NEVADA PROXIMITORS
VT (PWR) - RED (RED)
COMMON (COM) - BLACK (BLK)
OUT (SIG) - WHITE (WHT)
SHIELD (SHLD) MUST BE INDIVIDUALLY CONNECTED AT B/N 3500 MONITOR

TRAIN 2 Δ

THIS DRAWING CERTIFIED
FOR SANDRIDGE ENERGY
ORDER NO. 294100
YORK REFRIGERATION
Waynesboro, PA
PER R. OLIVER DATE 5/4/09

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100 CV ME
P.O. BOX 997
Waynesboro, PA 17268

Johnson Controls
YORK Process Systems

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PURCHASER SANDRIDGE ENERGY
1601 N.W. EXPRESSWAY SUITE 1600
OKLAHOMA CITY, OK 73118
PURCH ORDER NO 294100

YORK ORDER NO 27607-P-13-012JCI

YPS - PLC CONTROL SYSTEM
PLC CONTROL PANEL ASSEMBLY &
WIRING DIAGRAM

PROJECT NOTES

SIZE D CASE CODE 23587 DWG NO 645D1279 REV F OF 40 SHEET 40

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES DO NOT SCALE

DATE DIMENSIONS SPECIFIED TO DRAWING PER 3P 11/14

DEC 3P 1/16
DEC 3P 1/8
DEC 3P 1/4
DEC 3P 1/2

DR D. BURKHOLDER
CHK J. COOK
APPD R. OLIVER

01/23/09
04/09/09
04/08/09