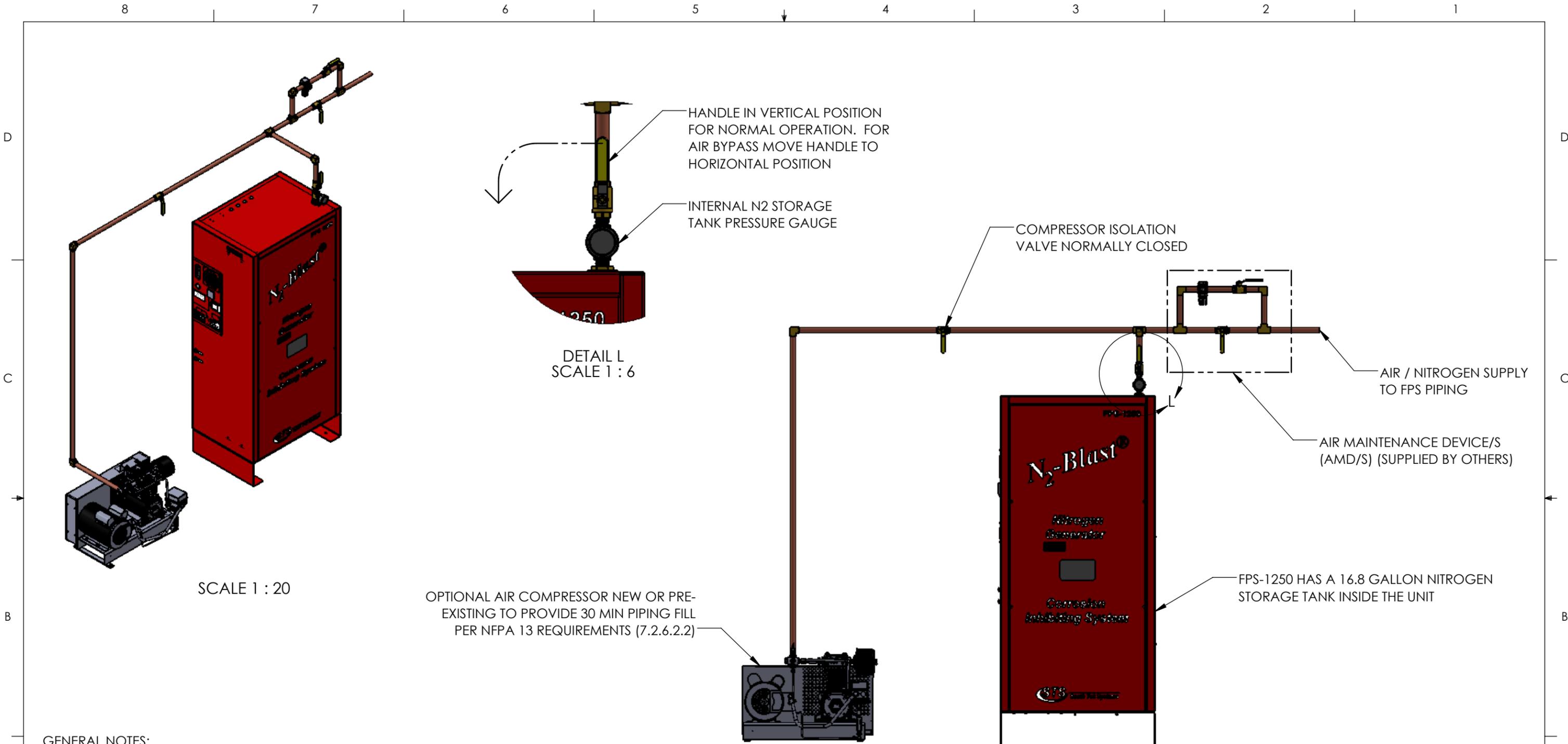


# N2-BLAST, FPS-1250 (TYPE 1P), GENERAL ARRANGEMENT

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SHEET #	DESCRIPTION
1	TABLE OF CONTENTS
2	GENERAL ARRANGEMENT
3	GENERAL ARRANGEMENT WITH AIR BYPASS

DRAWING	ECR	REV.	DESCRIPTION	DATE	CHANGED BY	APPROVED BY	MATERIAL:	FINISH:	WEIGHT:	PROJECT NAME:	SIZE:	SCALE:	SHEET:	REVISION:	
2-3	-	3	UPDATED TANK INFORMATION	7/22/2015	PJS	JVN				<b>GENERAL ARRANGEMENT FOR FPS-01250, TABLE OF CONTENTS</b>					
ALL	-	2	UPDATED TO NEW FORMAT	7/6/2015	PJS	JVN									
ALL	-	1	INSERTED NEW CABINET	1/12/2015	PJS	JVN						SOUTH-TEK SYSTEMS	B	1:12	1 OF 3
REVISIONS							<small>PROPRIETARY AND CONFIDENTIAL THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF SOUTH-TEK SYSTEMS. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF SOUTH-TEK SYSTEMS IS PROHIBITED.</small>	<small>UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES WHOLE NUMBER DIM's: ± .1 ONE DEC.: ± .2, TWO DEC.: ± .02 THREE DEC.: ± .005, ANG.: ± .05°</small>			NUMBER: <b>GA-TYP4P-FPS-01250</b>			DATE: 7/6/2015	APPROVED: JVN DATE: 7/6/2015



GENERAL NOTES:

- (1) ALL CONNECTIONS ARE 1/2" NPT F UNLESS OTHERWISE SPECIFIED.
- (2) ALL PLUMBING, FITTINGS, VALVES, AND HARDWARE ARE SUPPLIED BY OTHERS.
- (3) ALL EQUIPMENT MUST BE INSTALLED ON A HARD FLAT SURFACE.
- (4) FOR DESIGN DATA OF NITROGEN GENERATOR SEE DRAWING DD-TYP4P-FPS.

							MATERIAL: FINISH: WEIGHT:		<b>GENERAL ARRANGEMENT FOR FPS-01250</b>		DRAWN: PJS	APPROVED: JVN
PROPRIETARY AND CONFIDENTIAL THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF SOUTH-TEK SYSTEMS. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF SOUTH-TEK SYSTEMS IS PROHIBITED.							UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES WHOLE NUMBER DIM'S: ± 1 ONE DEC.: ± .2, TWO DEC.: ± .02 THREE DEC.: ± .005, ANG.: ± .05°				DATE: 7/6/2015	DATE: 7/6/2015
2-3	-	3	UPDATED TANK INFORMATION	7/22/2015	PJS	JVN	PROJECT NAME: SOUTH-TEK SYSTEMS		SIZE: B	SCALE: 1:16	SHEET: 2 OF 3	
ALL	-	2	UPDATED TO NEW FORMAT	7/6/2015	PJS	JVN	NUMBER: <b>GA-TYP4P-FPS-01250</b>		REVISION: <b>3</b>			
ALL	-	1	INSERTED NEW CABINET	1/12/2015	PJS	JVN	REVISIONS					
DRAWING	ECR	REV.	DESCRIPTION	DATE	CHANGED BY	APPROVED BY						

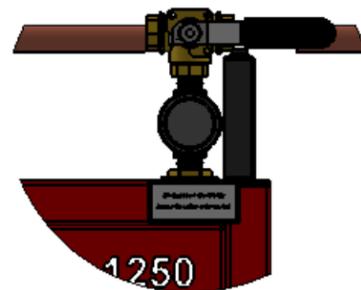
8 7 6 5 4 3 2 1

# AIR BYPASS ALARM

→ N2 = HANDLE OUT (NORMAL OPERATION)  
↑ AIR BYPASS = HANDLE UP

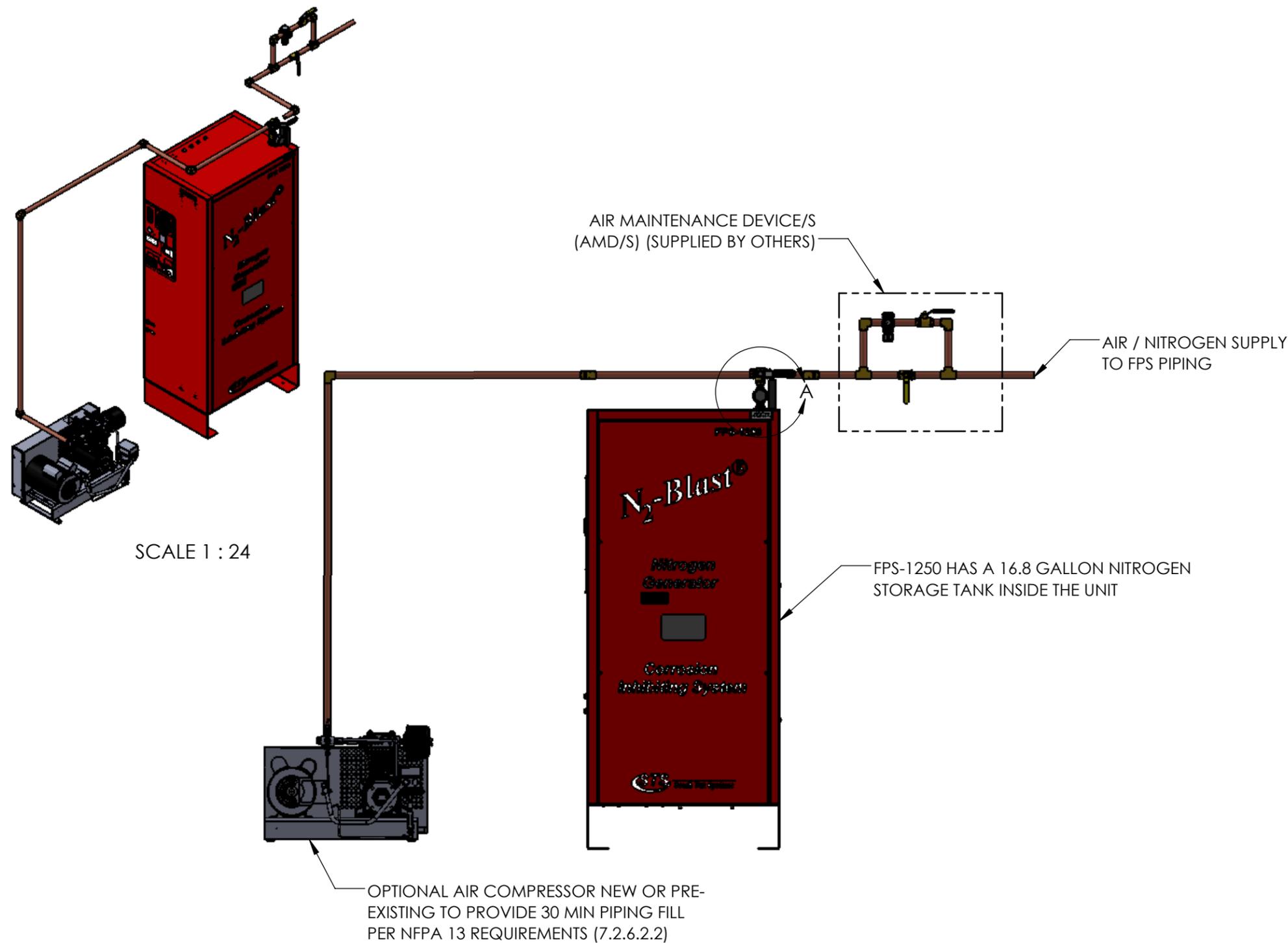
NOTE: SHOULD THE HANDLE BE IN THE UPWARD POSITION, THE NITROGEN GENERATOR WILL BE BYPASSED BY AIR. THIS WILL ILLUMINATE A RED LIGHT ON THE NITROGEN GENERATOR (AND SIGNAL A LOCAL SUPERVISORY ALARM IF CONNECTED TO THE BUILDING MONITORING PANEL) UNTIL THE HANDLE IS TURNED TO THE OUTWARD POSITION, RESUMING NORMAL OPERATION AND ALLOWING NITROGEN TO BE MAINTAINED WITHIN THE DRY OR PRE-ACTION FIRE SPRINKLER SYSTEM (NOTE: DEVICE IS ONLINE TO PREVENT SPRINKLER PIPE CORROSION).

CONTACT SOUTH-TEK SYSTEMS WITH QUESTIONS  
PHONE: 888.526.6284



DETAIL A  
SCALE 1 : 6

## AIR BYPASS ALARM OPTION



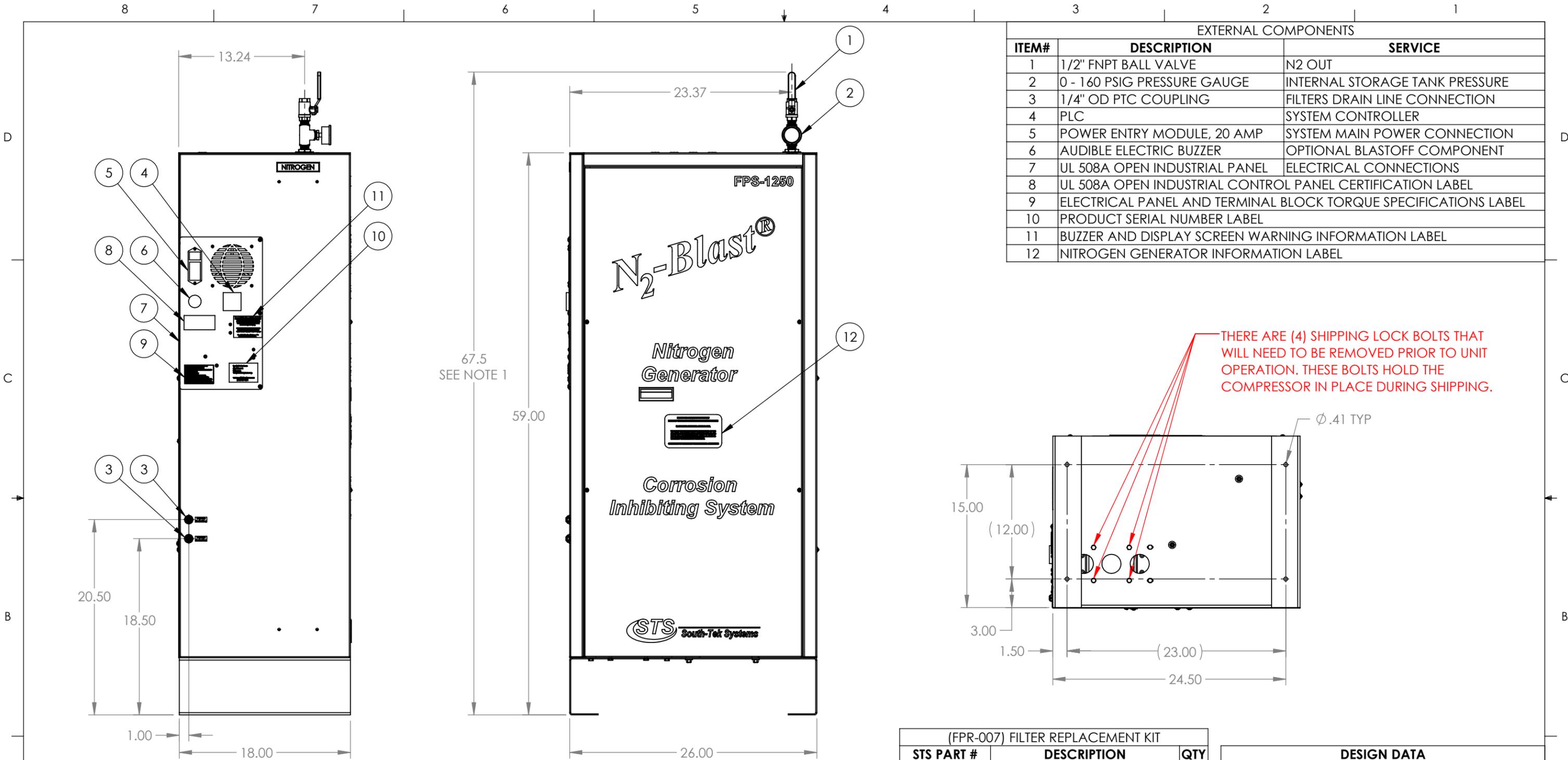
DRAWING	ECR	REV.	DESCRIPTION	DATE	CHANGED BY	APPROVED BY
2-3	-	3	UPDATED TANK INFORMATION	7/22/2015	PJS	JVN
ALL	-	2	UPDATED TO NEW FORMAT	7/6/2015	PJS	JVN
ALL	-	1	INSERTED NEW CABINET	1/12/2015	PJS	JVN
REVISIONS						



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MATERIAL:	GENERAL ARRANGEMENT FOR FPS-01250 WITH BYPASS		DRAWN: PJS	APPROVED: JVN
FINISH:			DATE: 7/6/2015	DATE: 7/6/2015
WEIGHT:			PROJECT NAME: SOUTH-TEK SYSTEMS	SIZE: B
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES WHOLE NUMBER DIM'S: ± 1 ONE DEC.: ± .2, TWO DEC.: ± .02 THREE DEC.: ± .005, ANG.: ± .05°		NUMBER: <b>GA-TYP4P-FPS-01250</b>	REVISION: <b>3</b>	

8 7 6 5 4 3 2 1



EXTERNAL COMPONENTS		
ITEM#	DESCRIPTION	SERVICE
1	1/2" FNPT BALL VALVE	N2 OUT
2	0 - 160 PSIG PRESSURE GAUGE	INTERNAL STORAGE TANK PRESSURE
3	1/4" OD PTC COUPLING	FILTERS DRAIN LINE CONNECTION
4	PLC	SYSTEM CONTROLLER
5	POWER ENTRY MODULE, 20 AMP	SYSTEM MAIN POWER CONNECTION
6	AUDIBLE ELECTRIC BUZZER	OPTIONAL BLASTOFF COMPONENT
7	UL 508A OPEN INDUSTRIAL PANEL	ELECTRICAL CONNECTIONS
8	UL 508A OPEN INDUSTRIAL CONTROL PANEL CERTIFICATION LABEL	
9	ELECTRICAL PANEL AND TERMINAL BLOCK TORQUE SPECIFICATIONS LABEL	
10	PRODUCT SERIAL NUMBER LABEL	
11	BUZZER AND DISPLAY SCREEN WARNING INFORMATION LABEL	
12	NITROGEN GENERATOR INFORMATION LABEL	

THERE ARE (4) SHIPPING LOCK BOLTS THAT WILL NEED TO BE REMOVED PRIOR TO UNIT OPERATION. THESE BOLTS HOLD THE COMPRESSOR IN PLACE DURING SHIPPING.

NOTES:  
 (1) IF AIR BYPASS ALARM OPTION IS ORDERED THE OVERALL HEIGHT WILL BE 2" SHORTER.

(FPR-007) FILTER REPLACEMENT KIT		
STS PART #	DESCRIPTION	QTY
900-135	PRE COMPRESSOR FILTER	1
900-137-MB	PARTICULATE FILTER ELEMENT	1
900-140-MB	COALESCING FILTER ELEMENT	1
120-020-E	REPLACEMENT O-RINGS	2

DESIGN DATA	
PURITY	98% +
N2 OUT PRESSURE	UP TO 80 PSI
WEIGHT	140 LBS
ELECTRICAL	110V / 60HZ / 1PHASE, 15AMPS

DRAWING	ECR	REV.	DESCRIPTION	DATE	CHANGED BY	APPROVED BY
-	-	0	INITIAL RELEASE	7/16/2015	PJS	JVN
REVISIONS						

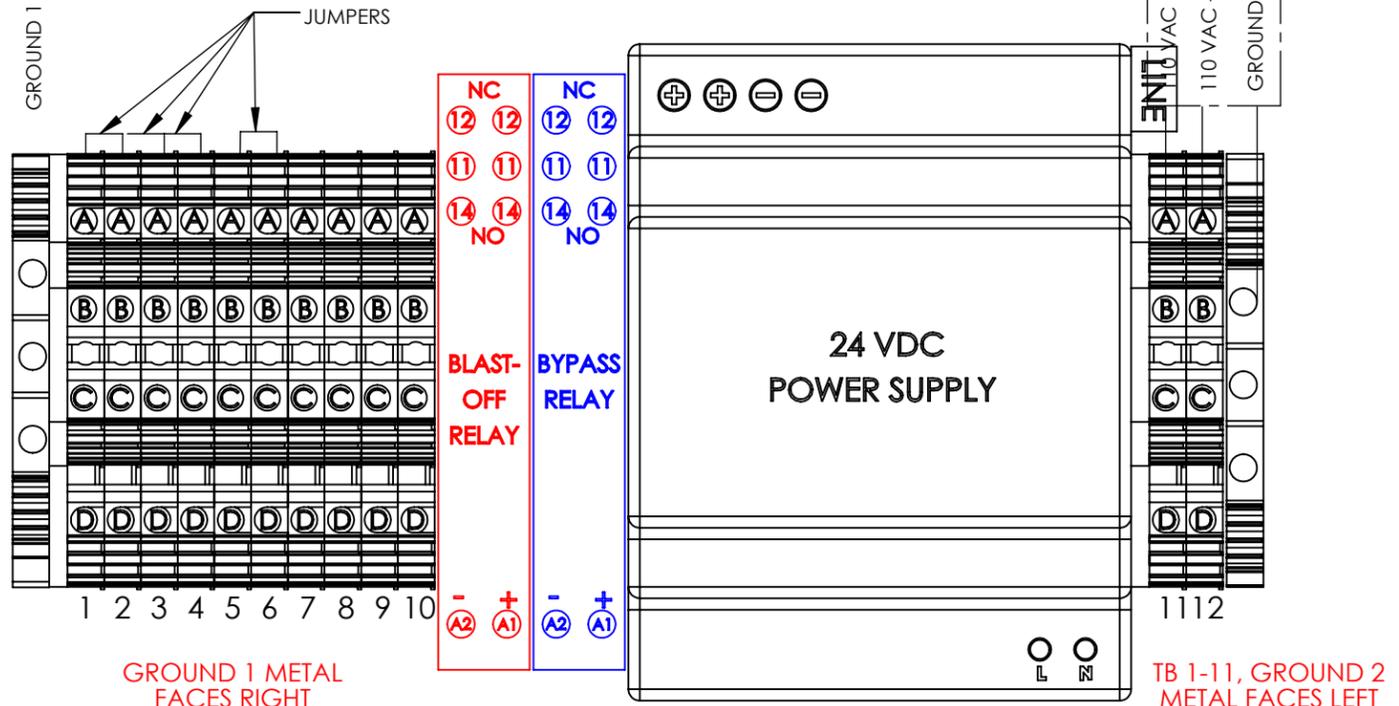
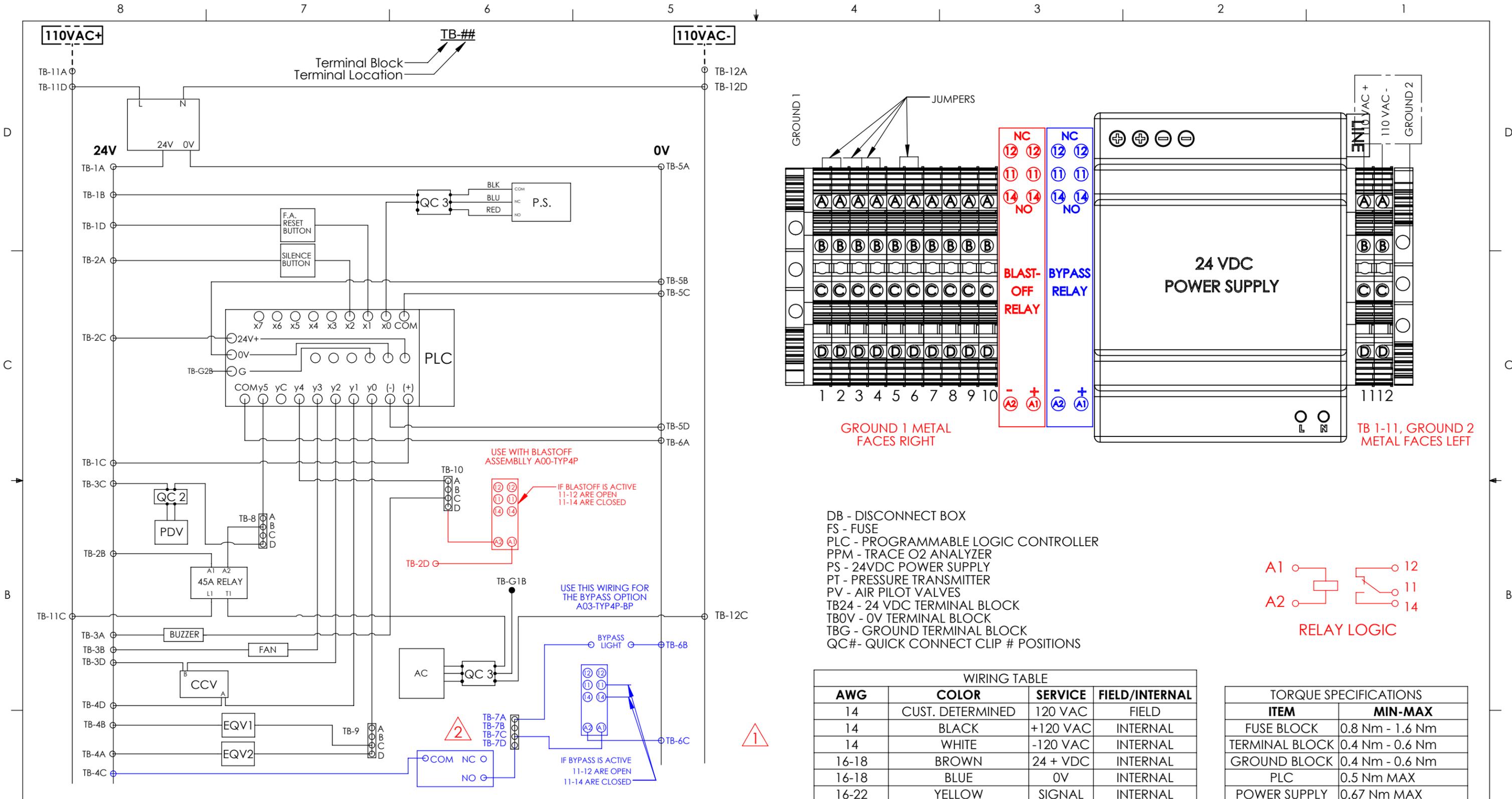


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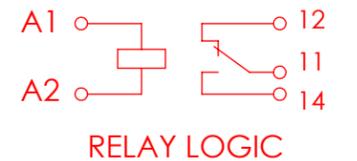
MATERIAL:  
 FINISH:  
 WEIGHT:  
 UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES  
 Whole Number Dim's: ± 1  
 One Dec.: ± .2, Two Dec.: ± .02  
 Three Dec.: ± .005, Ang.: ± .05°

**TYP4P N2-BLAST, DESIGN DATA AND DIMENSIONS**  
 PROJECT NAME: SOUTH-TEK SYSTEMS  
 SIZE: B  
 NUMBER: DD-FPS-01250

DRAWN:	APPROVED:
PJS	JVN
DATE: 7/16/15	DATE: 7/16/15
SCALE: 1:10	SHEET: 1 of 1
	REVISION: 0



DB - DISCONNECT BOX  
 FS - FUSE  
 PLC - PROGRAMMABLE LOGIC CONTROLLER  
 PPM - TRACE O2 ANALYZER  
 PS - 24VDC POWER SUPPLY  
 PT - PRESSURE TRANSMITTER  
 PV - AIR PILOT VALVES  
 TB24 - 24 VDC TERMINAL BLOCK  
 TB0V - 0V TERMINAL BLOCK  
 TBG - GROUND TERMINAL BLOCK  
 QC#- QUICK CONNECT CLIP # POSITIONS



WIRING TABLE			
AWG	COLOR	SERVICE	FIELD/INTERNAL
14	CUST. DETERMINED	120 VAC	FIELD
14	BLACK	+120 VAC	INTERNAL
14	WHITE	-120 VAC	INTERNAL
16-18	BROWN	24 + VDC	INTERNAL
16-18	BLUE	0V	INTERNAL
16-22	YELLOW	SIGNAL	INTERNAL

TORQUE SPECIFICATIONS	
ITEM	MIN-MAX
FUSE BLOCK	0.8 Nm - 1.6 Nm
TERMINAL BLOCK	0.4 Nm - 0.6 Nm
GROUND BLOCK	0.4 Nm - 0.6 Nm
PLC	0.5 Nm MAX
POWER SUPPLY	0.67 Nm MAX

ECR#	REV.	DESCRIPTION	DATE	CHANGED BY	APPROVED BY
-	3	MODIFIED TITLE BLOCK AND TEXT FORMAT	7/23/2015	PJS	JVN
10064	2	ADDED TERMINAL BLOCK FOR BYPASS WIRING	5/8/2015	PJS	JVN
10045	1	BYPASS PRESSURE SWITCH WIRING HAS BEEN CHANGED	4/1/2015	PJS	JVN

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**TYP4P, ELECTRICAL PANEL WIRING**

PROJECT NAME: SOUTH-TEK SYSTEMS

NUMBER: **ES-TYP4P**

APPROVED: JVN

DATE: 06/24/13

SCALE: 1:1

SHEET: 1 OF 1

REVISION: **3**