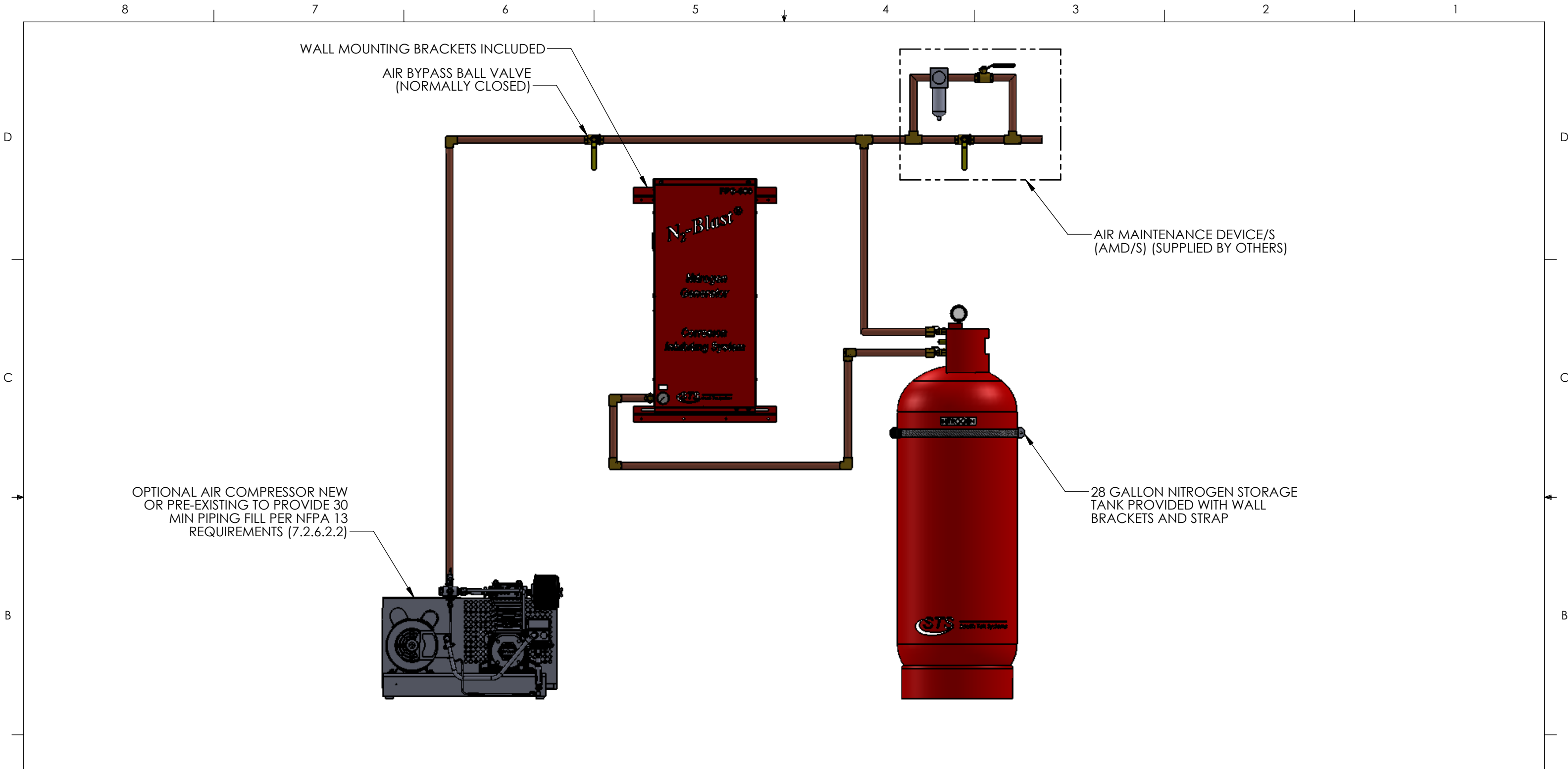


N2-BLAST, FPS-650, (TYPE 1P), GENERAL ARRANGEMENT

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

							MATERIAL: FINISH: WEIGHT:	N2-BLAST, TYPE 1P GENERAL ARRANGEMENT TABLE OF CONTENTS	DRAWN: PJS DATE: 03/04/14	APPROVED: JVN DATE: 03/04/14
ALL	-	2	MODIFIED TITLE BLOCK AND TEXT FORMAT	7/23/2015	PJS	JVN	PROJECT NAME: SOUTH-TEK SYSTEMS	SIZE: B	SCALE: 1:12	SHEET: 1 OF 3
SHEET 3	-	1	CHANGED BYPASS LABEL	3/26/2015	PJS	JVN				
DRAWING	ECR	REV.	DESCRIPTION	DATE	CHANGED BY	APPROVED BY				
REVISIONS							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°	NUMBER: GA-TYP1P-FPS	REVISION: 2



OPTIONAL AIR COMPRESSOR NEW OR PRE-EXISTING TO PROVIDE 30 MIN PIPING FILL PER NFPA 13 REQUIREMENTS (7.2.6.2.2)

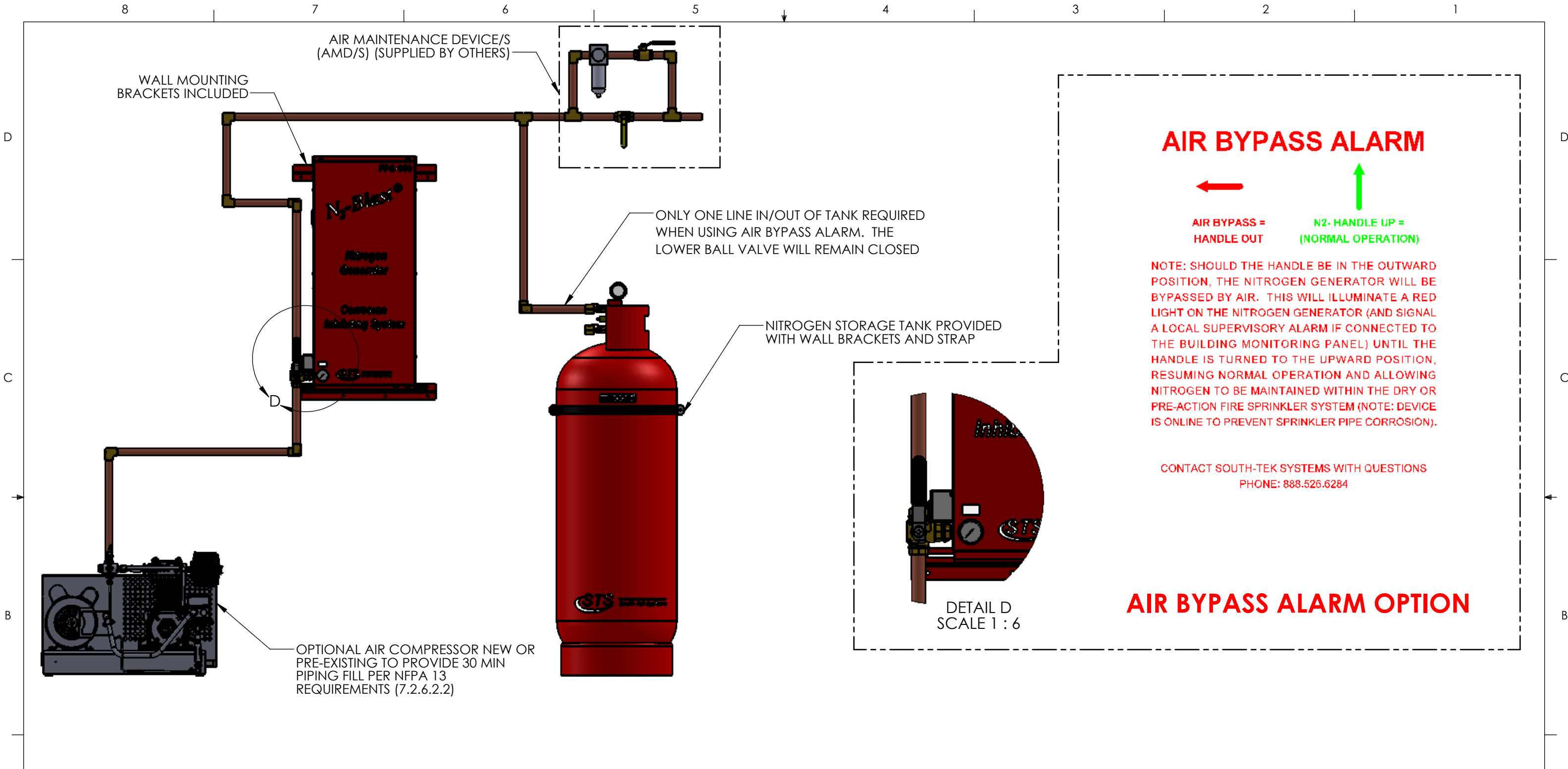
WALL MOUNTING BRACKETS INCLUDED
AIR BYPASS BALL VALVE (NORMALLY CLOSED)

AIR MAINTENANCE DEVICE/S (AMD/S) (SUPPLIED BY OTHERS)

28 GALLON NITROGEN STORAGE TANK PROVIDED WITH WALL BRACKETS AND STRAP

GENERAL NOTES:
1) ALL CONNECTIONS ARE 1/2" NPT F UNLESS OTHERWISE SPECIFIED.

								MATERIAL:	N2-BLAST, TYPE 1P GENERAL ARRANGEMENT		DRAWN: PJS	APPROVED: JVN
								FINISH:			DATE: 03/04/14	DATE: 03/04/14
ALL	-	2	MODIFIED TITLE BLOCK AND TEXT FORMAT	7/23/2015	PJS	JVN		WEIGHT:	PROJECT NAME: SOUTH-TEK SYSTEMS	SIZE: B	SCALE: 1:12	SHEET: 2 OF 3
SHEET 3	-	1	CHANGED BYPASS LABEL	3/26/2015	PJS	JVN	UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES WHOLE NUMBER DIM'S: ± .1 ONE DEC.: ± .2, TWO DEC.: ± .02 THREE DEC.: ± .005, ANG.: ± .05°			NUMBER: GA-TYP1P-FPS		REVISION: 2
DRAWING	ECR	REV.	DESCRIPTION	DATE	CHANGED BY	APPROVED BY	<p>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.</p>					
REVISIONS												



GENERAL NOTES:
1) ALL CONNECTIONS ARE 1/2" NPT F UNLESS OTHERWISE SPECIFIED.

							MATERIAL: FINISH: WEIGHT:		N2-BLAST, TYPE 1P GENERAL ARRANGEMENT WITH BYPASS		DRAWN: PJS	APPROVED: JVN
ALL	-	2	MODIFIED TITLE BLOCK AND TEXT FORMAT	7/23/2015	PJS	JVN					DATE: 03/04/14	DATE: 03/04/14
SHEET 3	-	1	CHANGED BYPASS LABEL	3/26/2015	PJS	JVN			PROJECT NAME: SOUTH-TEK SYSTEMS	SIZE: B	SCALE: 1:12	SHEET: 3 OF 3
DRAWING	ECR	REV.	DESCRIPTION	DATE	CHANGED BY	APPROVED BY	UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES WHOLE NUMBER DIM'S: ± .1 ONE DEC.: ± .02, TWO DEC.: ± .02 THREE DEC.: ± .005, ANG.: ± .05°		NUMBER: GA-TYP1P-FPS		REVISION: 2	
REVISIONS												

8 7 6 5 4 3 2 1

D

C

B

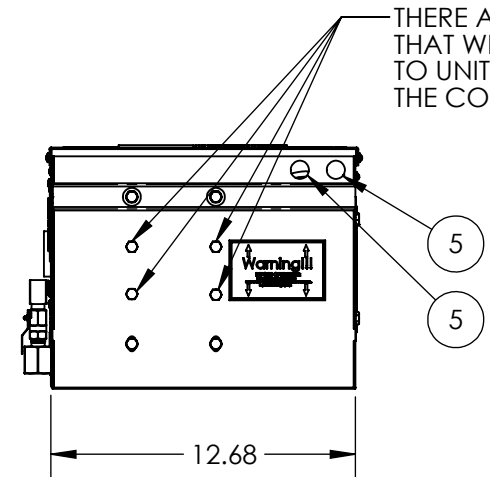
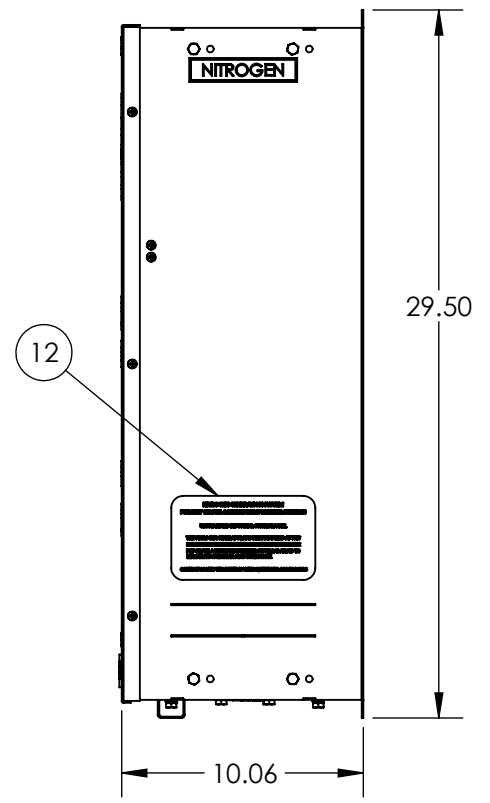
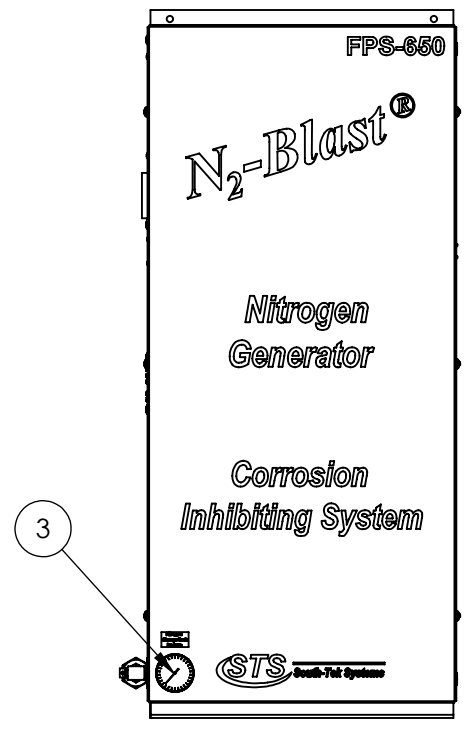
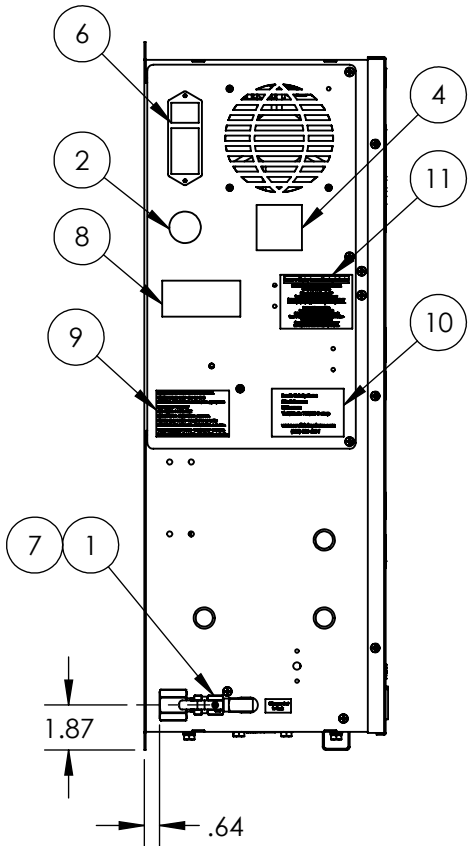
A

D

C

B

A



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.

EXTERNAL COMPONENTS		
ITEM #	DESCRIPTION	SERVICE
1	1/4" NPT BALL VALVE	N2 OUT
2	AUDIBLE ELECTRIC BUZZER	AUDIBLE ALARM
3	0-100 PSIG PRESSURE GAUGE	N2-STORAGE TANK PRESSURE GAUGE
4	PLC	SYSTEM CONTROLLER
5	1/4" OD THROUGH-WALL COUPLING	1/4" OD DRAIN
6	POWER ENTRY MODULE, 15 AMP	SYSTEM MAIN POWER SUPPLY
7	1/4" NPT M x 1/2" NPT F ADAPTER	N2-OUT ADAPTER FOR 1/2" PLUMBING
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	

(FRP-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 70 PSI
ELECTRICAL	110V / 60Hz / 1PHASE, 15AMPS
WEIGHT	84 LBS

DRAWING	ECR	REV.	DESCRIPTION	DATE	CHANGED BY	APPROVED BY
-	-	1	UPDATED TITLE BLOCK AND TEXT FORMAT. UPDATED DESIGN DATA CHART	7/23/2015	PJS	JVN
REVISIONS						

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MATERIAL:
FINISH:
WEIGHT:

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES
WHOLE NUMBER DIM'S: ± .1
ONE DEC.: ± .02
TWO DEC.: ± .005, ANG.: ± .05°

N2-BLAST, TYP1P, DESIGN DATA AND DIMENSIONS

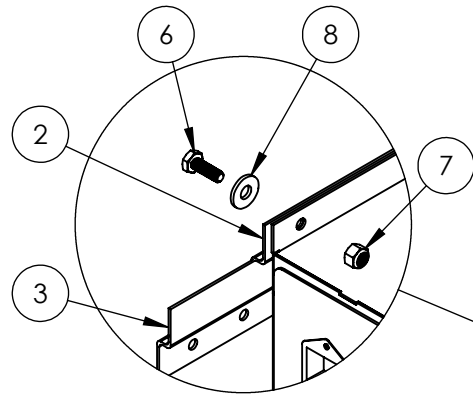
PROJECT NAME: SOUTH-TEK SYSTEMS SIZE: B

NUMBER: **DD-TYP1P-FPS**

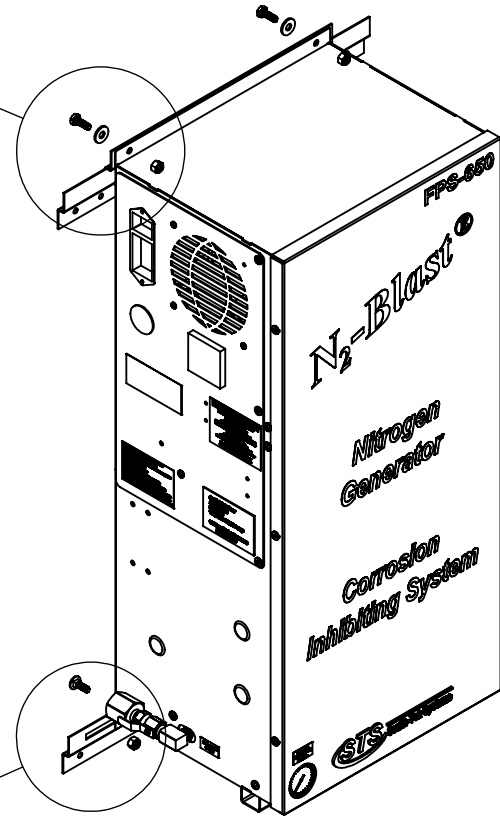
DRAWN: PJS	APPROVED: JVN
DATE: 12/09/14	DATE: 12/09/14
SCALE: 1:18	SHEET: 1 OF 1
REVISION: 1	

8 7 6 5 4 3 2 1

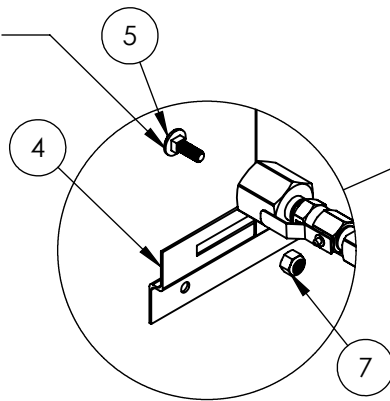
ITEM#	STS PART #	DESCRIPTION	QTY.
1	FPS-650	N2-BLAST TYP1P	1
2	800-133	S-100/200 12" MOUNTING BRACKET	1
3	800-134-B	S-100/200/400 18" MOUNTING BRACKET	1
4	800-129	TYPE 1 LOWER WALL MOUNTING BRACKET	1
5	MISC	0.250" -20 x 0.750" CARRIAGE BOLT	2
6	MISC	0.250" - 20 x 0.750" HHCS	2
7	MISC	0.250" NYLOCK NUT	4
8	MISC	0.250" FLAT WASHER	2



DETAIL A
SCALE 1 : 4



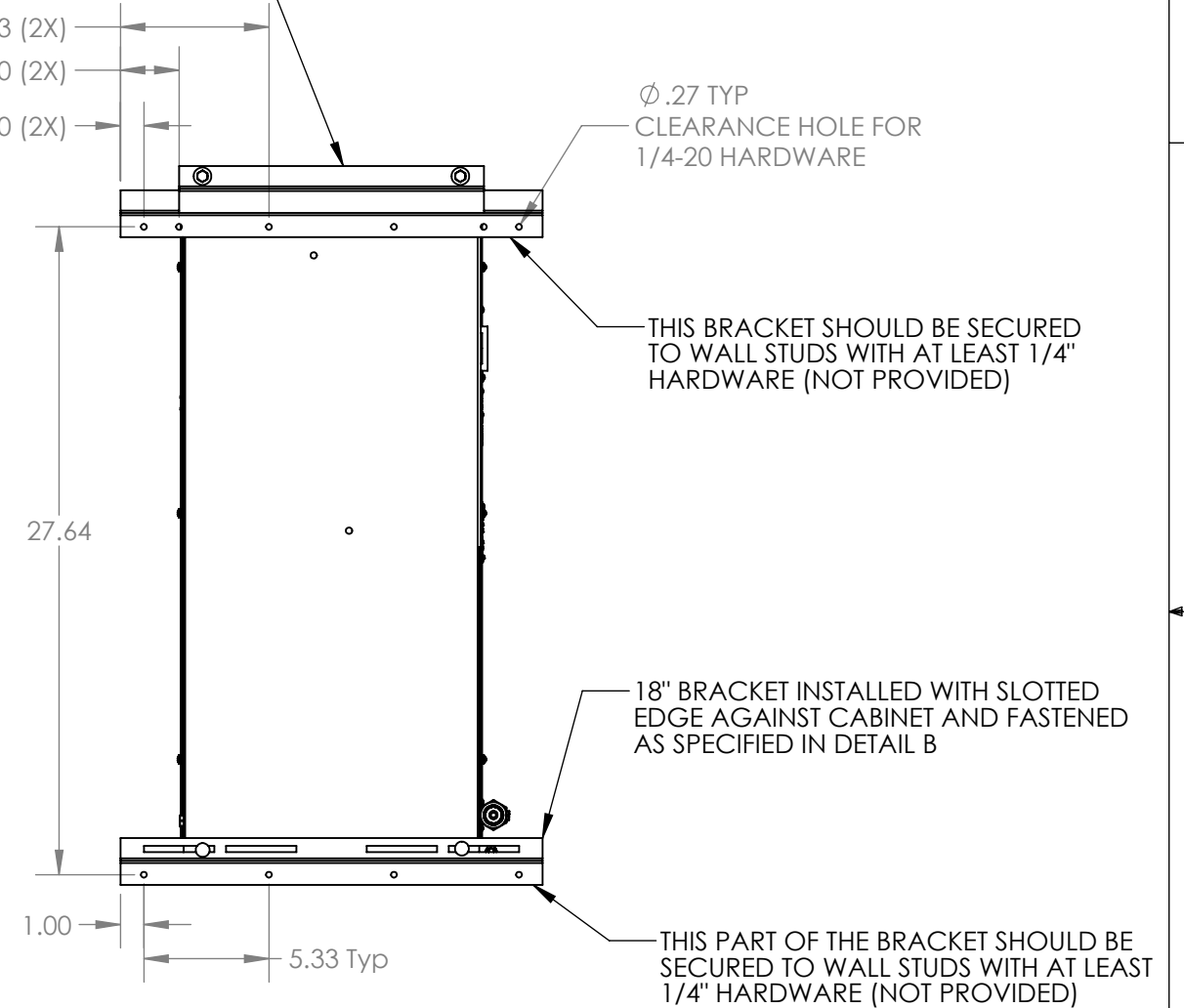
CARRIAGE BOLT MUST BE INSTALLED FROM THE BACK SIDE OF THE BRACKET



DETAIL B
SCALE 1 : 4

FASTEN BRACKET SECURELY TO CABINET WITH HARDWARE INDICATED IN DETAIL A

6.33 (2X)
2.50 (2X)
1.00 (2X)



MATERIAL:

FINISH:

WEIGHT:

N2-BLAST, TYP1P WALL MOUNTING BRACKETS INSTALLATION INSTRUCTIONS

PROJECT NAME: SOUTH-TEK SYSTEMS

NUMBER: DD-TYP1P-FPS-MB

DRAWN: PJS APPROVED: JVN

DATE: 12/09/14 DATE: 12/09/14

SCALE: 1:18 SHEET: 1 OF 1

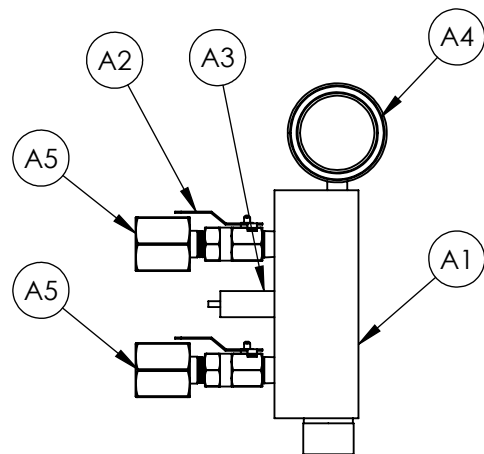
REVISION: 1

DRAWING	ECR	REV.	DESCRIPTION	DATE	CHANGED BY	APPROVED BY
-	-	1	UPDATED TITLE BLOCK AND TEXT FORMAT	7/23/2015	PJS	JVN
REVISIONS						

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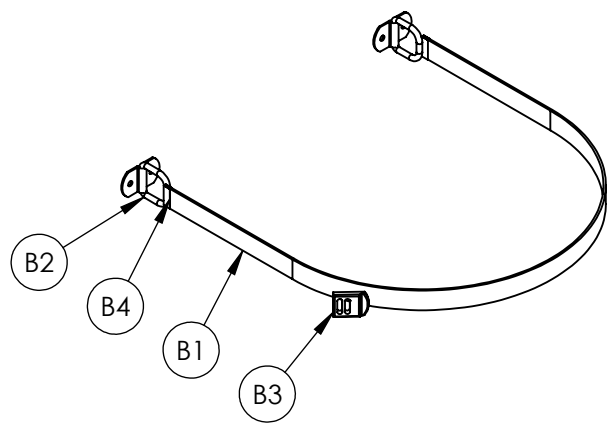
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES
WHOLE NUMBER DIM'S: ± 1
ONE DEC.: ± .2, TWO DEC.: ± .02
THREE DEC.: ± .005, ANG.: ± .05°

A01-0100-S-A, TANK MANIFOLD WITH 0.500" NOZZLE CONNECTIONS			
ITEM #	STS PART #	DESCRIPTION	QTY.
A1	800-245-A	TANK MANIFOLD	1
A2	124-308	0.250" NPT M x F BALL VALVE, BRASS, MINIATURE	2
A3	124-335-A	0.250" SAFETY RELIEF, 115 PSI, UCI	1
A4	124-125	0.250" NPT x 02.000" O-160 PSIG, BM	1
A5	524-218	0.500" NPT F x 0.250" NPT M REDUCER, BRASS	2



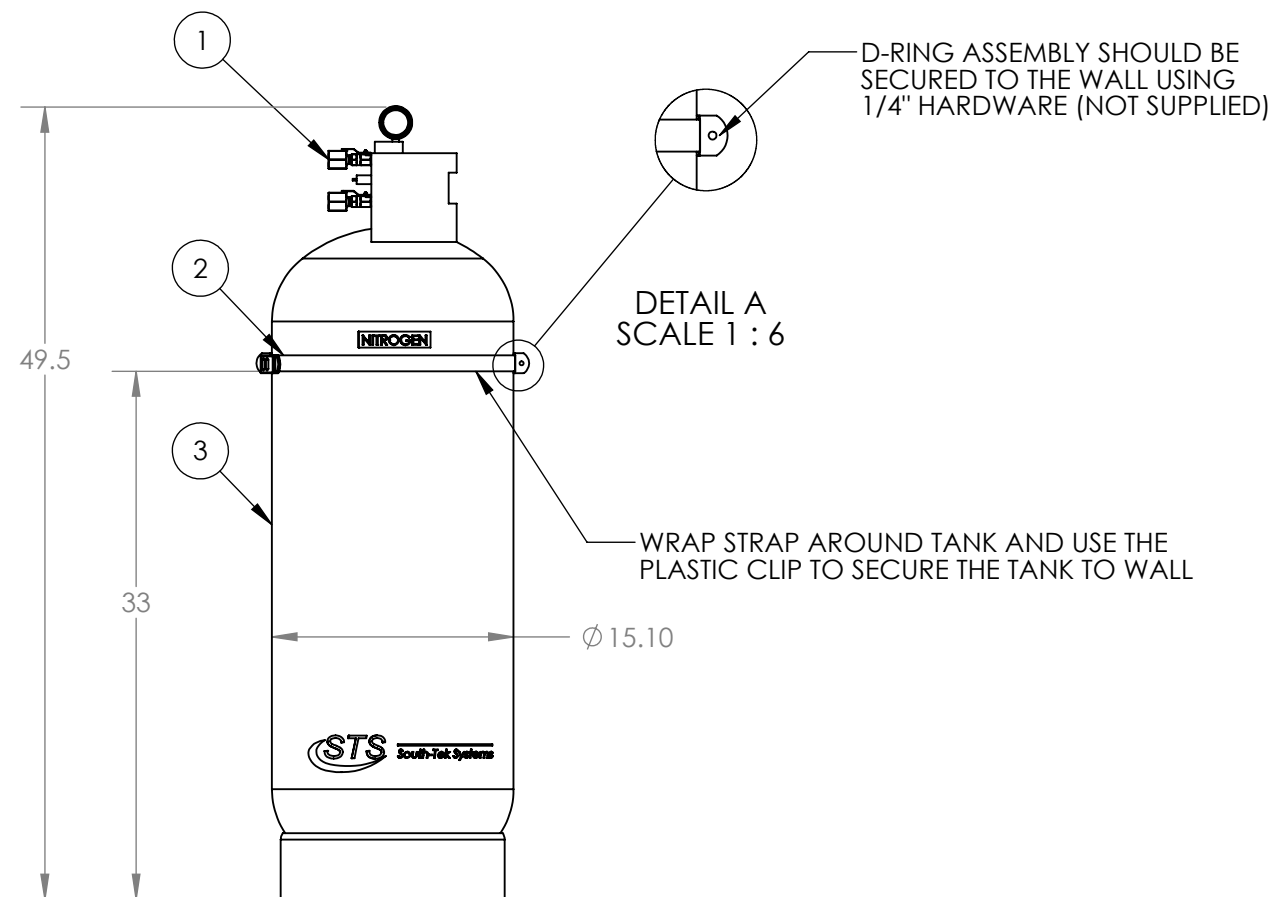
SCALE 1 : 4

A01-0100-A, 100# Tank Strap Assembly			
ITEM #	STS PART #	DESCRIPTION	QTY.
B1	800-155	TANK STRAP	1
B2	800-157	D-RING ASSEMBLY	2
B3	800-154	LIGHT DUTY PLASTIC BUCKLE	1
B4	800-156	FINISHING TIP	2



SCALE 1 : 8

DD-A01-0100-04-04, INCLUDED ASSEMBLIES			
ITEM #	STS PART #	DESCRIPTION	QTY.
1	A01-0100-S-A	TANK MANIFOLD WITH 0.500" NOZZLES	1
2	A01-0100-A	TANK STRAP ASSEMBLY	1
3	800-111-FPS	100# RED TANK WITH LABEL	1



(800-111) NITROGEN STORAGE TANK DESIGN DATA	
VOLUME	28 GALLONS
WEIGHT	75 LBS

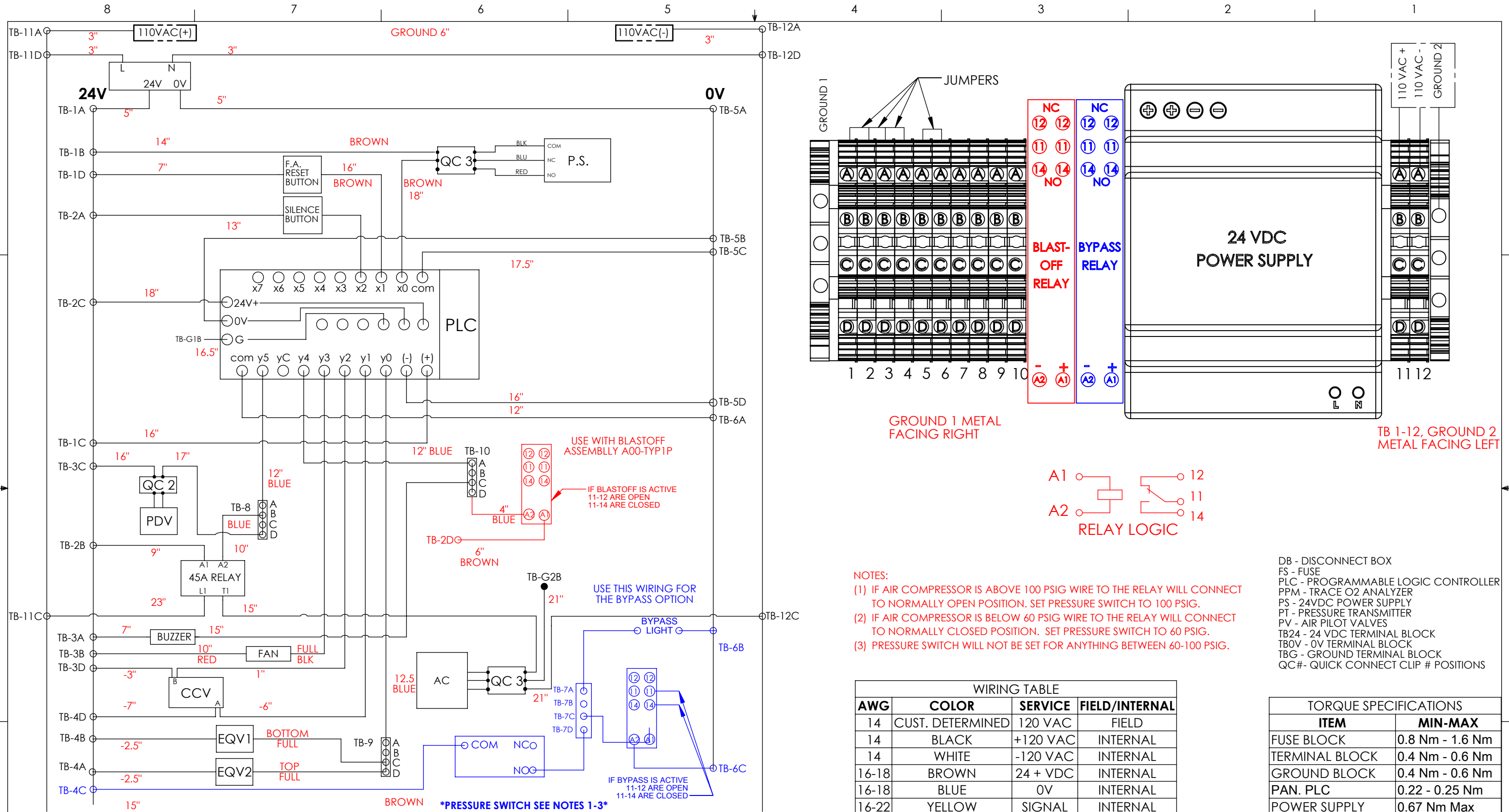


28 GALLON (100#) TANK ASSEMBLY DESIGN DATA

DRAWING	ECR	REV.	DESCRIPTION	DATE	CHANGED BY	APPROVED BY
-	-	1	UPDATED TITLE BLOCK AND TEXT FORMAT	7/22/2015	PJS	JVN
REVISIONS						

MATERIAL:	
FINISH:	
WEIGHT:	
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES WHOLE NUMBER DIM'S: ± .1 ONE DEC.: ± .02, TWO DEC.: ± .02 THREE DEC.: ± .005, ANG.: ± .05°	

PROJECT NAME:	SOUTH-TEK SYSTEMS	SIZE:	B	DRAWN:	PJS	APPROVED:	JVN
DATE:	12/03/14	SCALE:	1:12	DATE:	12/03/14	SHEET:	1 OF 1
NUMBER:	DD-A01-0100-04-04			REVISION:	1		



- NOTES:**
- IF AIR COMPRESSOR IS ABOVE 100 PSIG WIRE TO THE RELAY WILL CONNECT TO NORMALLY OPEN POSITION. SET PRESSURE SWITCH TO 100 PSIG.
 - IF AIR COMPRESSOR IS BELOW 60 PSIG WIRE TO THE RELAY WILL CONNECT TO NORMALLY CLOSED POSITION. SET PRESSURE SWITCH TO 60 PSIG.
 - PRESSURE SWITCH WILL NOT BE SET FOR ANYTHING BETWEEN 60-100 PSIG.

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
PAN. PLC	0.22 - 0.25 Nm
POWER SUPPLY	0.67 Nm Max

DRAWING	ECR	REV.	DESCRIPTION	DATE	CHANGED BY	APPROVED BY
-	-	7	MODIFIED TITLE BLOCK AND TEXT FORMAT	7/23/2015	PJS	JVN
-	-	1-6	OLDER REVS CONSOLIDATED AND FILED	7/23/2015	PJS	JVN
REVISIONS						

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MATERIAL:
 FINISH:
 WEIGHT:

TYPE 1P, ELECTRICAL PANEL WIRING

PROJECT NAME: SOUTH-TEK SYSTEMS
 SIZE: B

NUMBER: **ES-TYP1P**

DRAWN: RB
 DATE: 06/24/13

APPROVED: JVN
 DATE: 06/24/13

SCALE: 1:1
 SHEET: 1 OF 1

REVISION: **7**