

GL-3

Integrally Geared Single Stage Blower



LONE STAR
TURBO

MODEL GL-3

Standard Specifications

Gas	Air, Steam, H2S, Biogas, Fuel Gas, CO2, N2, LNG, Custom
Flow Range	100% to 35% of Rated Flow with Combination Control
Pressure Range	Up to 30 PSIG / 2 bar
Maximum Case Pressure	50 PSIG / 3.5 bar
Stages	Single Stage
Drive Type	Direct Coupled
Power Driver Options	Electric Motor, Steam Turbine, Combustion Engine
Gearbox	Helical Gear Set
Cooling Lubricant	Lubricant Cooling (Air or Liquid)
Lubrication Options	Pressurized Oil
Bearings	Pinion - Tilt Pad Journal, Drive Journal
Enclosure	Optional
Sound Level	Job Specific
Sound Level with Enclosure	Job Specific
Filtration Rating (std)	99% at 2 micron, or as required
Seals Air	Labyrinth Type

Standard Materials of Construction

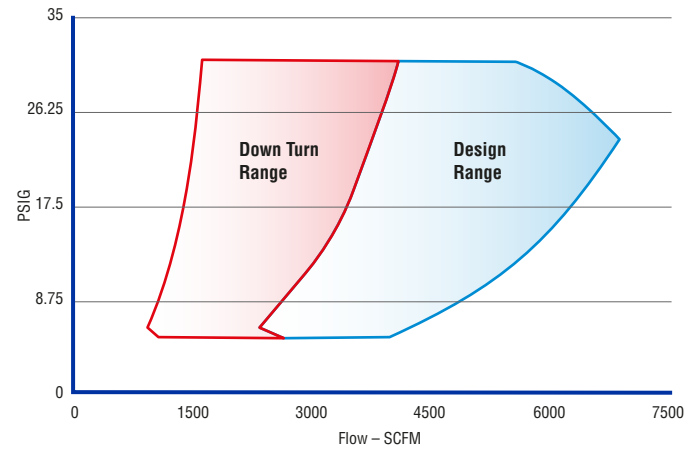
Casing	Grey Iron GG25, Ductile, ASTM A536, A48 or Equal
Bearings	ANSI 5140 Steel, Babbited, 40CR Alloy Casing
Impeller	AlCu2MgNi Alloy (annodized), 17-4PH, Titanium, Inconel
Inlet Guide Vanes	Stainless Steel 316
Discharge Diffuser Vanes	Stainless Steel 316
Gears	AISI 8620, Steel 10CrNiMo to AGMA 12/13
Shaft	Steel 10CrNiMo
Seals Air	ASTM B86 Z25631 Zinc Alloy Aluminum
Seals Gas	ASTM C695 Molded Graphite
Blower Base Skid	ASTM A36 Structural Steel
Isolation Pads	St. SIS 1312 inertial dampening with rubber hardness 60
Finish	2 Part Epoxy Lone Star Blue RAL5005
Enclosure	Aluminum, Galvanized Steel, Stainless

Optional Testing & Certifications

API	API 617, API 672, API 614
Electrical	UL 508A, CE, CSA
Hazardous Location	ATEX, Class1 - Division 1- Division 2, Zone 0-2
Balancing	ISO 1940 - G2.5, ~4W/N API
Noise Level	OSHA 1910.95, ISO 2151:2004
Performance	ASME PTC-10, PTC-13, ISO 5389
Hydro Testing	1.5 Time MAWP
Overspeed Testing	Optional
Positive Material ID	XRF, OES, Material Certification
NACE Compliance	Optional
Special Coatings	Optional

Service

Air, Gas, Pressure, Vacuum

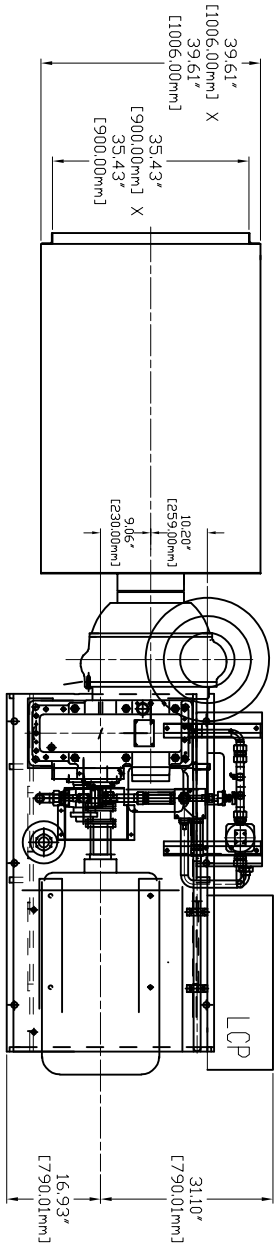
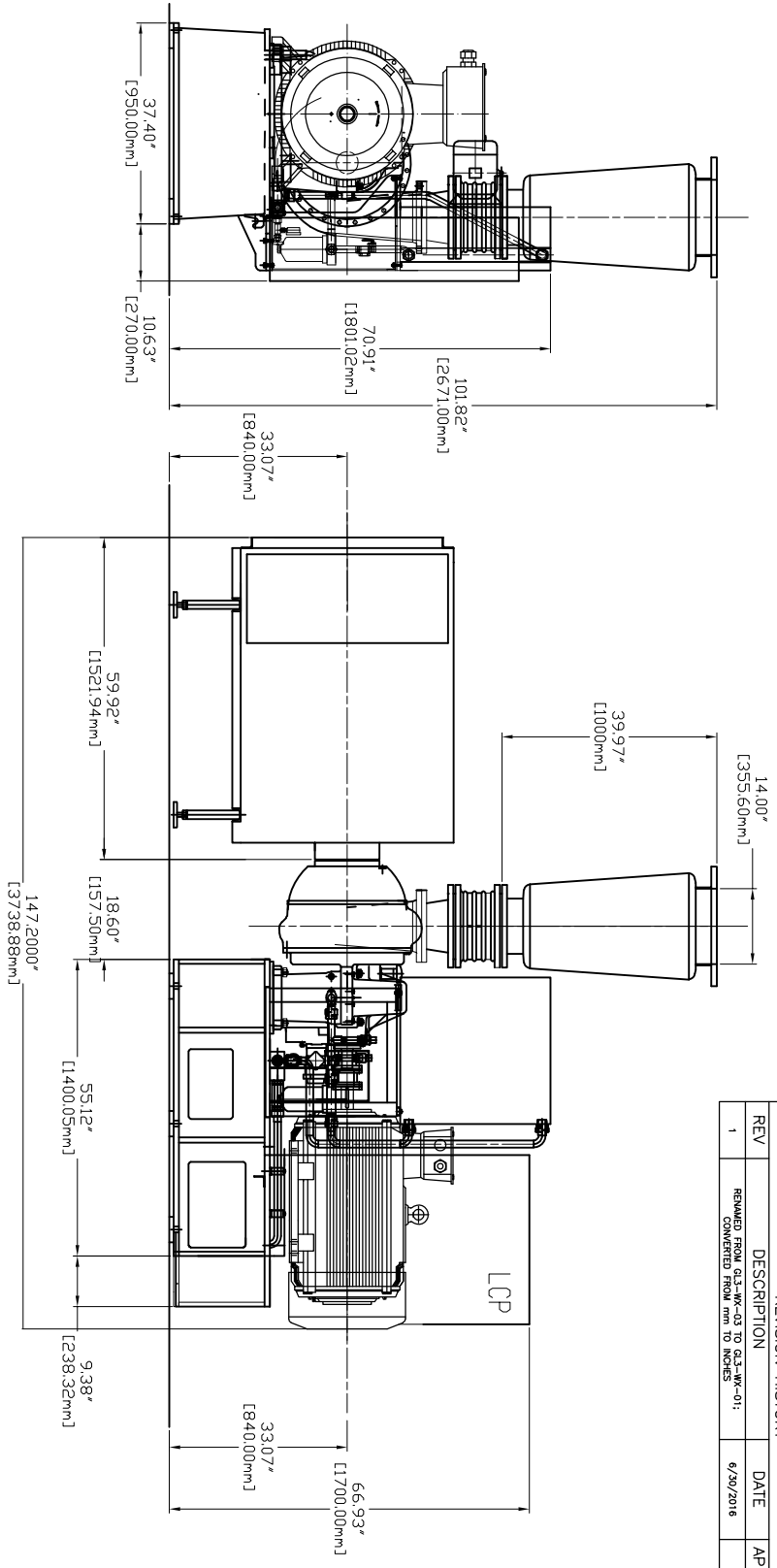


Control Options

Control Methods	Variable Inlet and Discharge Guide Vane, speed control, blow off, or combination
Local Controller	sLOC™ Standard - Custom for Allen Bradley, Modicon, Siemens or Other
HMI	sLOC™ Standard or Custom HMI
Remote Monitoring	sLINK™ or Custom
Control Set Points	Pressure, Flow, Power, Custom Input

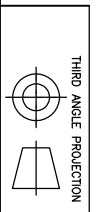


REVISION HISTORY		
REV	DESCRIPTION	DATE
1	REMOVED FROM GL3-WX-03 TO GL3-WX-011 (CONVERTED FROM MM TO INCHES)	6/30/2016



- NOTES:
1. BLOWER OUTLET ANGLE ADJUSTABLE EVERY 15° RADIALY.
 2. BLOWER INSTALLED BY EXPANSION BOLTS.

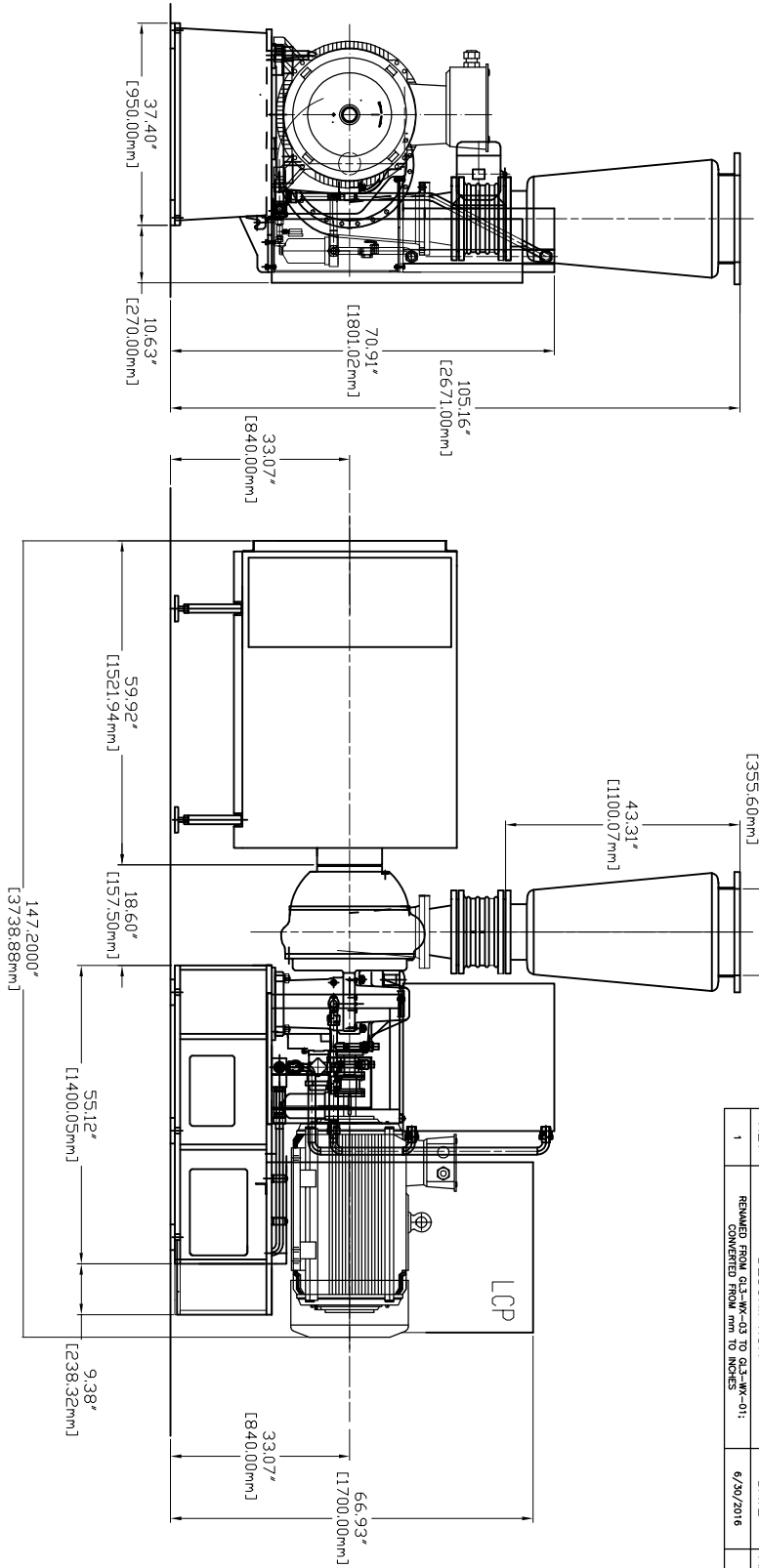
DIMENSIONS & WEIGHTS BY MOTOR SIZE			
MOTOR	"A"	"B"	WEIGHT (LBS)
100HP	55.12	147.2	5,622
125HP	55.12	147.2	5,644



DRAWING IS FOR REFERENCE ONLY UNLESS SPECIFIED AS RELEASED.		APPROVALS	
DRAWN	BW	DATE	06/30/2016
CHECK			
ENGINEER			
MANUFACTURING			
CONTROL			
APPROVED			

TITLE	
GL-3 GEARED TURBO	
GENERAL ASSEMBLY 14" CONE	
SIZE	DWG NUMBER
A	GL3-WX-01
SCALE	SHEET 1 OF 1
REV	REV
	01

REVISION HISTORY			
REV	DESCRIPTION	DATE	APPROVED
1	REMOVED FROM GL3-WX-03 TO GL3-WX-01 (CONVERTED FROM MM TO INCHES)	6/30/2016	



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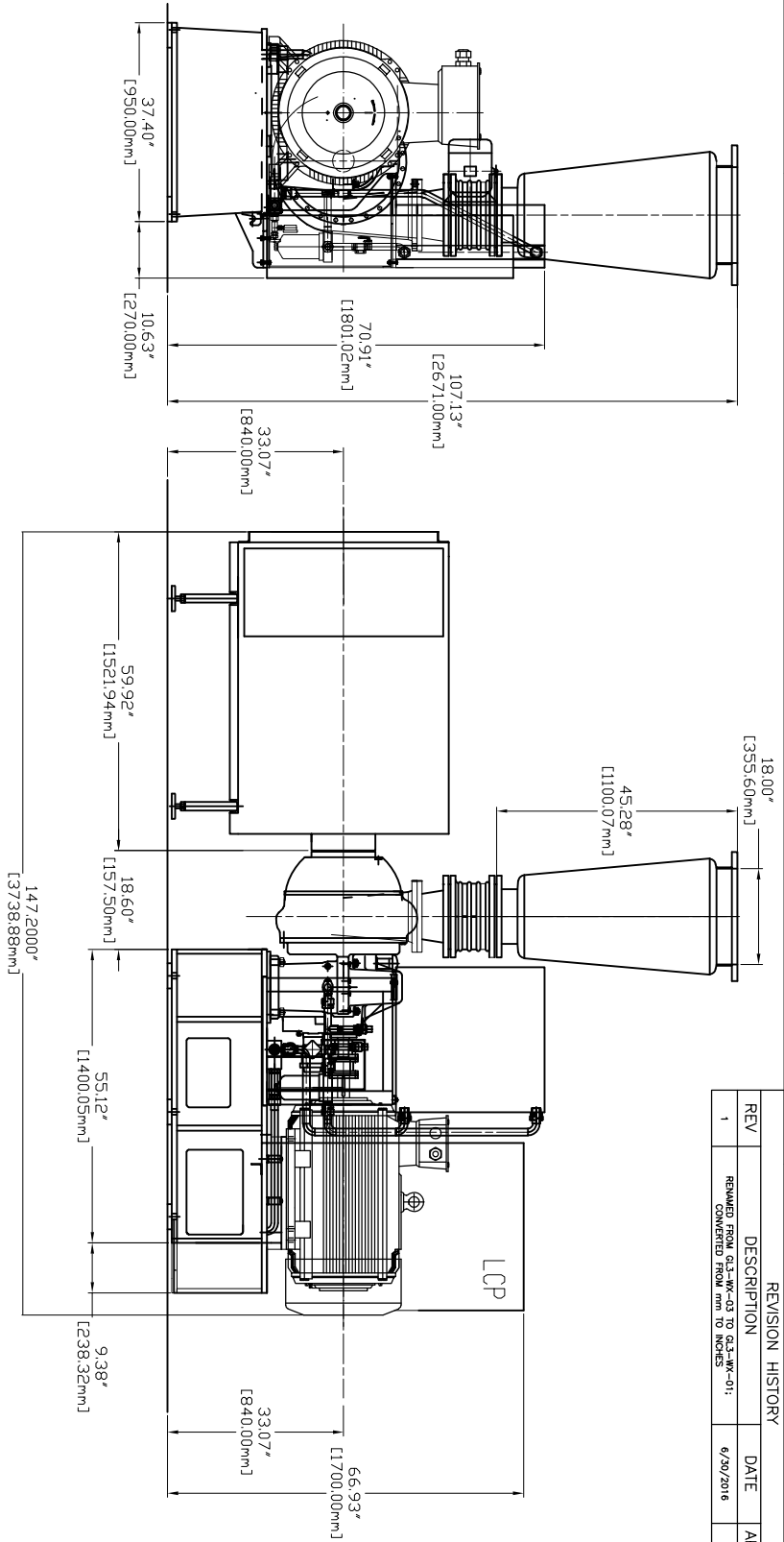
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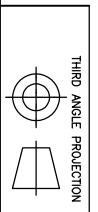
LONE STAR BLOWER	
TITLE	GL-3 GEARED TURBO GENERAL ASSEMBLY 16" CONE
SIZE	CAGE CODE DWG NUMBER
A	GL3-WX-01
SCALE	SHEET 1 OF 1
REV	01

REVISION HISTORY		
REV	DESCRIPTION	DATE
1	REMOVED FROM GL3-WX-03 TO GL3-WX-011 (DIMENSIONS FROM REV 10 INCHES)	6/30/2016



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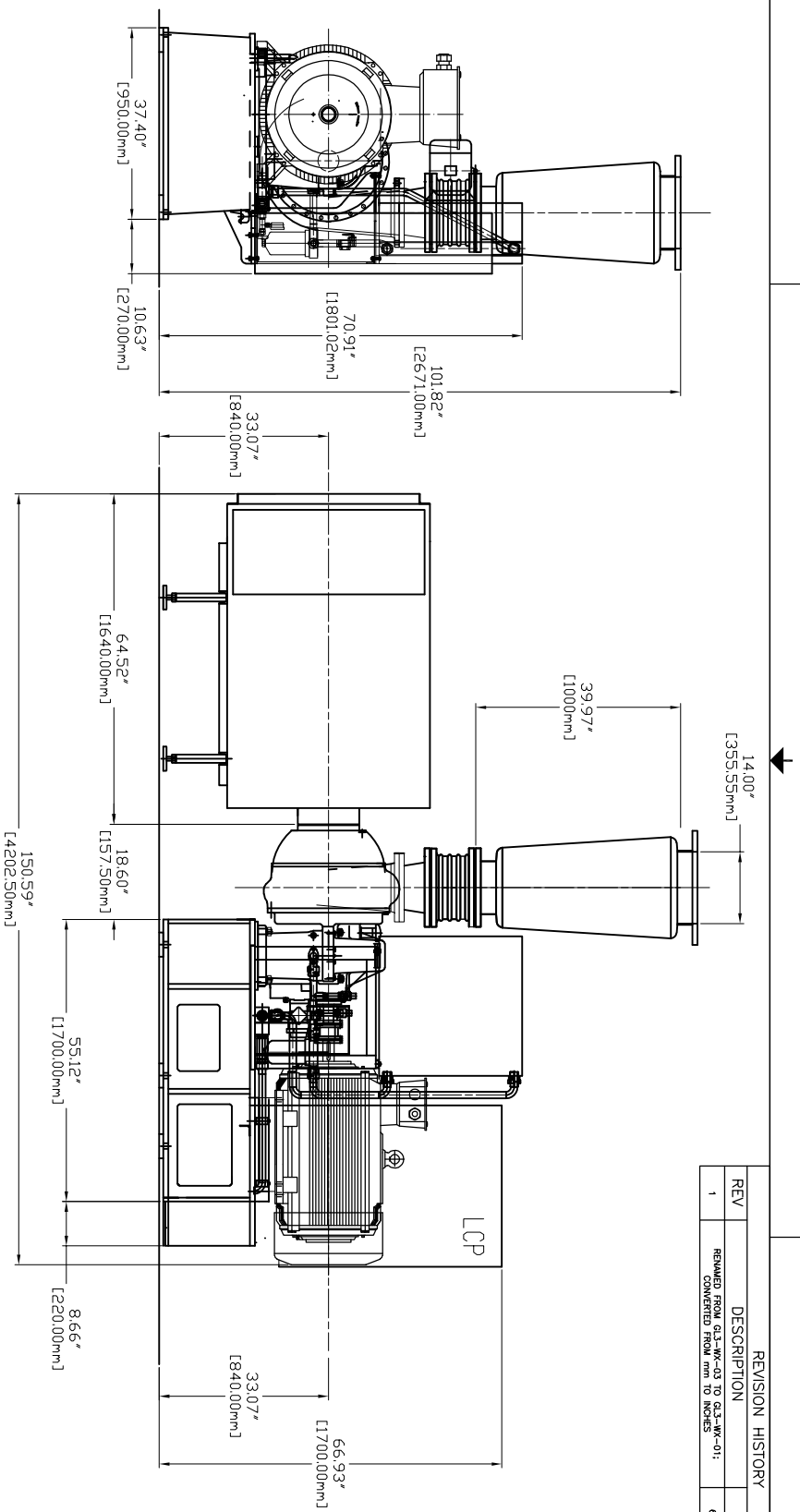


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CHECK			
ENGINEER			
MANUFACTURING CONTROL			
APPROVED			

LONE STAR BLOWER	
TITLE	GL-3 GEARED TURBO GENERAL ASSEMBLY 18" CONE
SIZE	CAGE CODE DWG NUMBER
A	GL3-WX-01
SCALE	SHEET 1 OF 1
REV	01

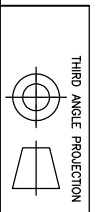
REV	DESCRIPTION	DATE	APPROVED
1	REMOVED FROM GL3-WX-03 TO GL3-WX-01: CONVERTED FROM MM TO INCHES	6/30/2016	

REVISION HISTORY



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DIMENSIONS & WEIGHTS BY MOTOR SIZE		
MOTOR	"A"	"B"
150HP	55.12	150.59
		WEIGHT (LBS)
		6,041

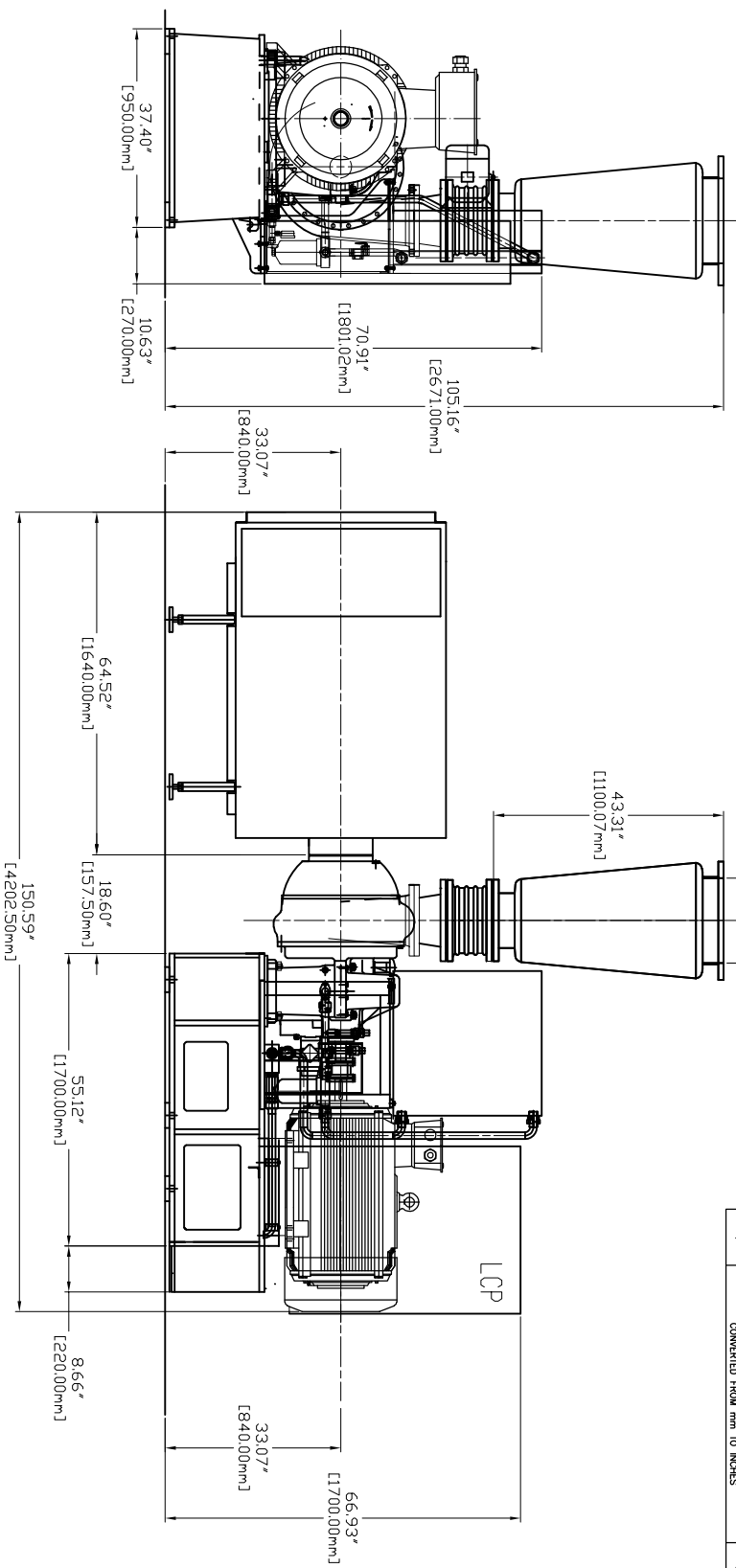


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DRAWN	BW	06/30/2016	
CHECK			
ENGINEER			
MANUFACTURING CONTROL			
APPROVED			

<p>LONE STAR BLOWER</p>	
TITLE	GL-3 GEARED TURBO GENERAL ASSEMBLY 14" CONE
SIZE	A
CAGE CODE	GL3-WX-01
DWG NUMBER	
SCALE	
SHEET	1 OF 1
REV	01

REV	DESCRIPTION	DATE	APPROVED
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REVISION HISTORY



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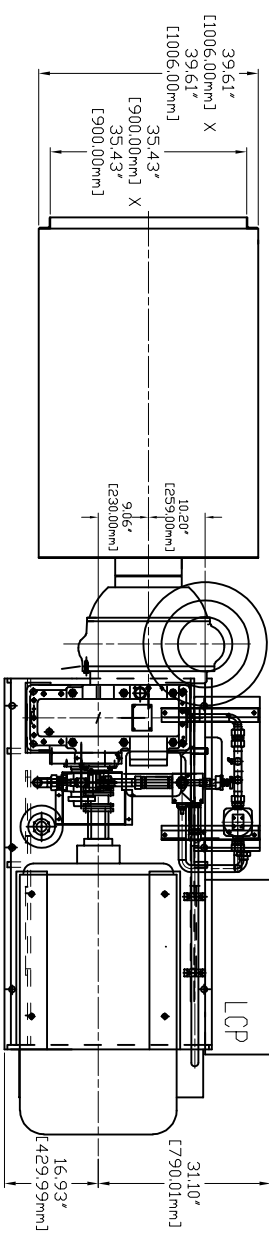
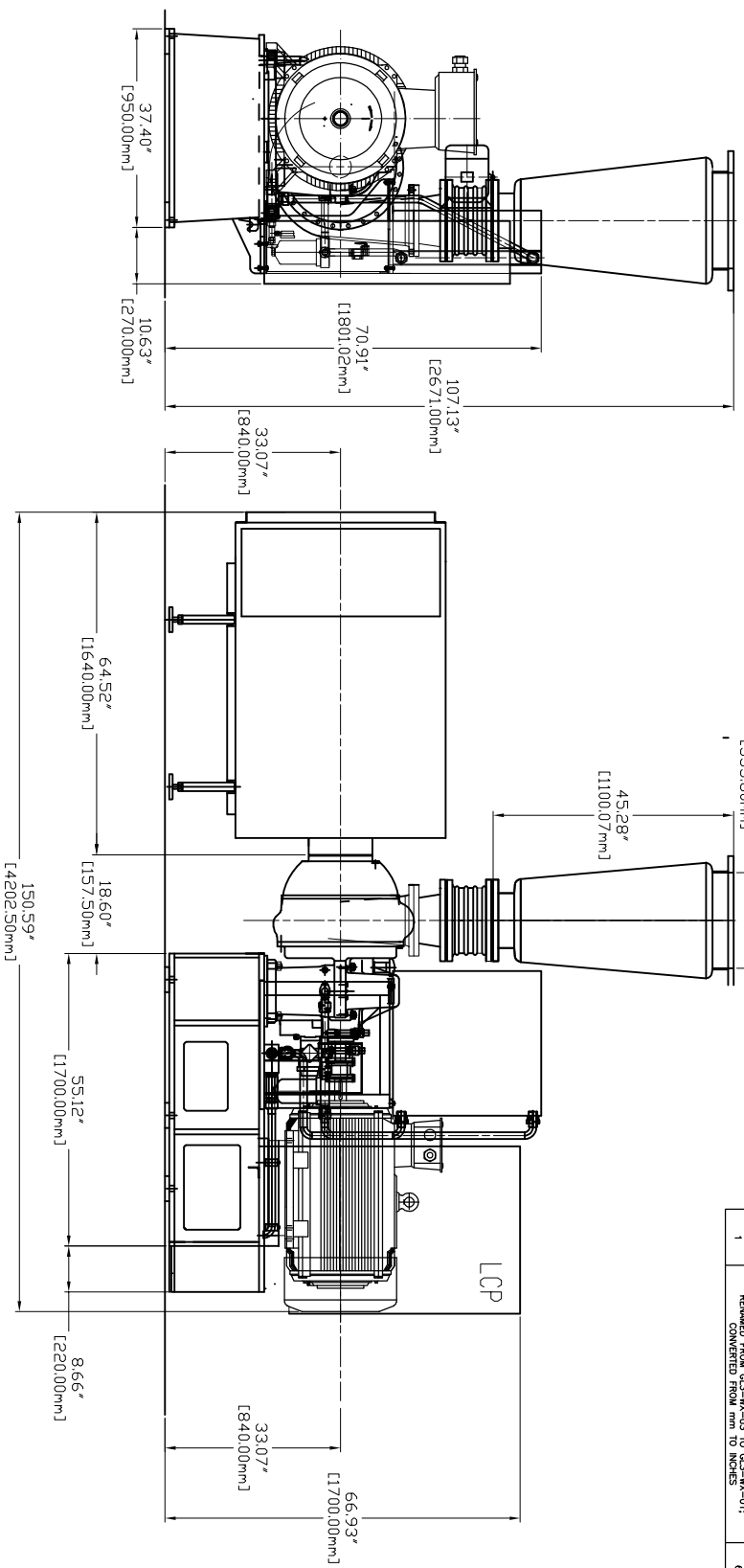
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MANUFACTURING CONTROL			
APPROVED			
TITLE		LONE STAR BLOWER	
GL-3 GEARED TURBO GENERAL ASSEMBLY 16" CONE			
SIZE	CAGE CODE	DWG NUMBER	REV
A	-	GL3-WX-01	01
SCALE	SHEET 1 OF 1		

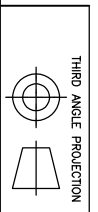
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REVISION HISTORY



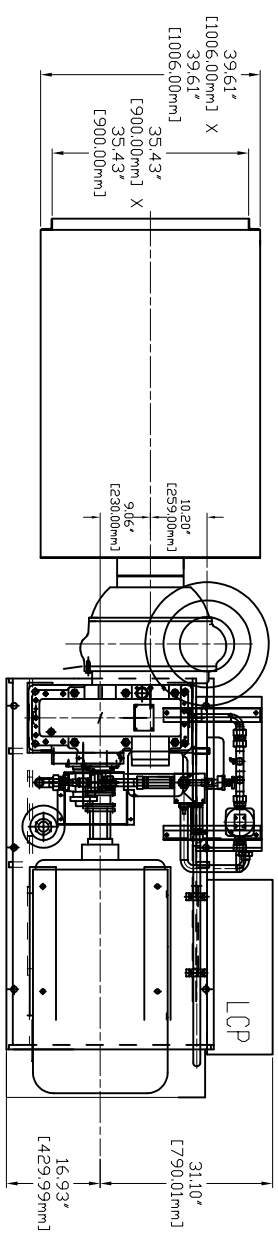
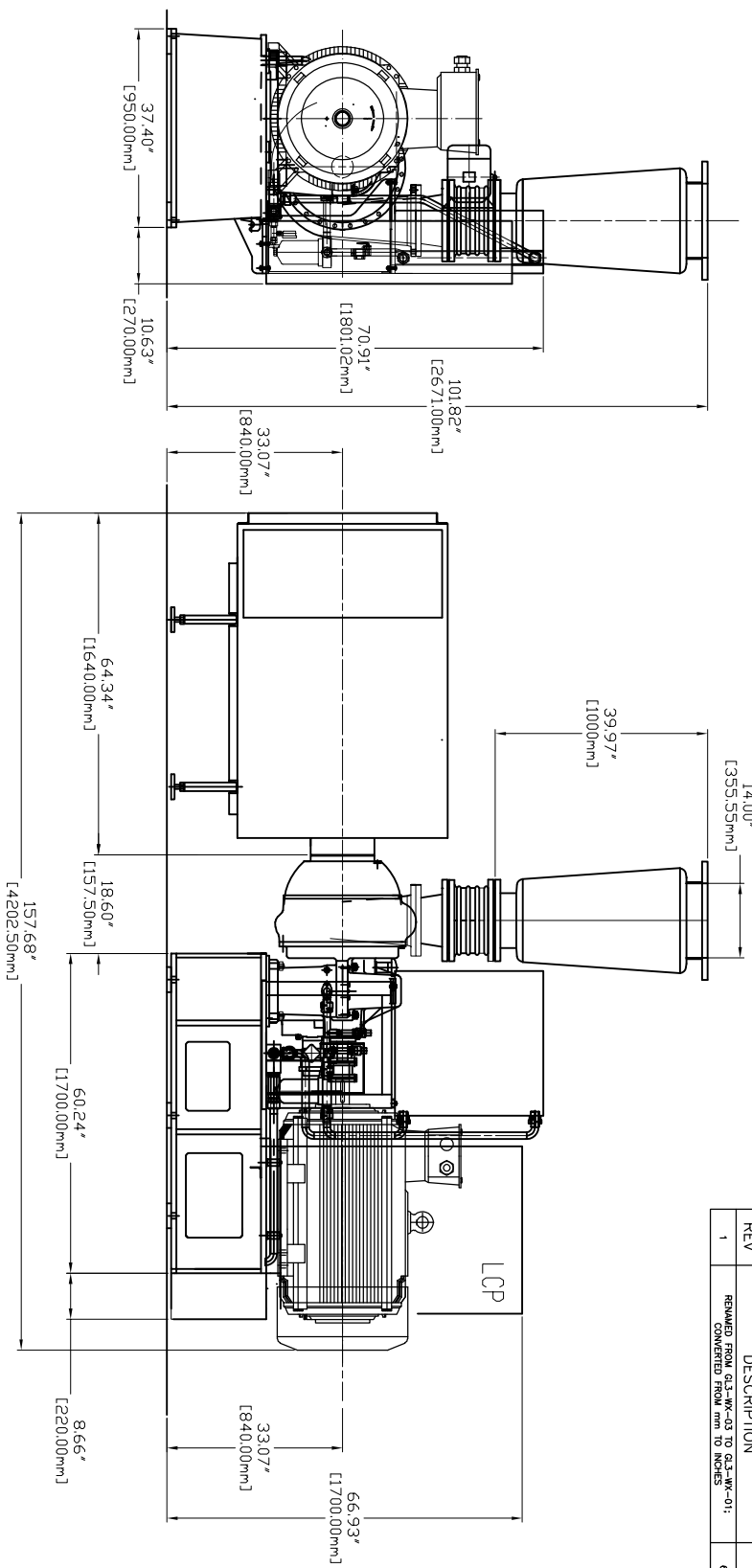
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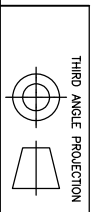
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ENGINEER			
MANUFACTURING CONTROL			
APPROVED			
TITLE		LONE STAR BLOWER	
GL-3 GEARED TURBO GENERAL ASSEMBLY 18" CONE			
SIZE	CAGE CODE	DWG NUMBER	REV
A	-	GL3-WX-01	01
SCALE		SHEET 1 OF 1	

REVISION HISTORY		
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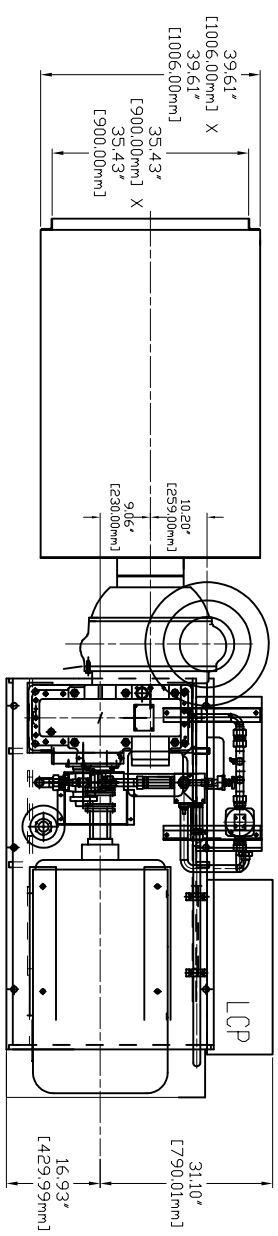
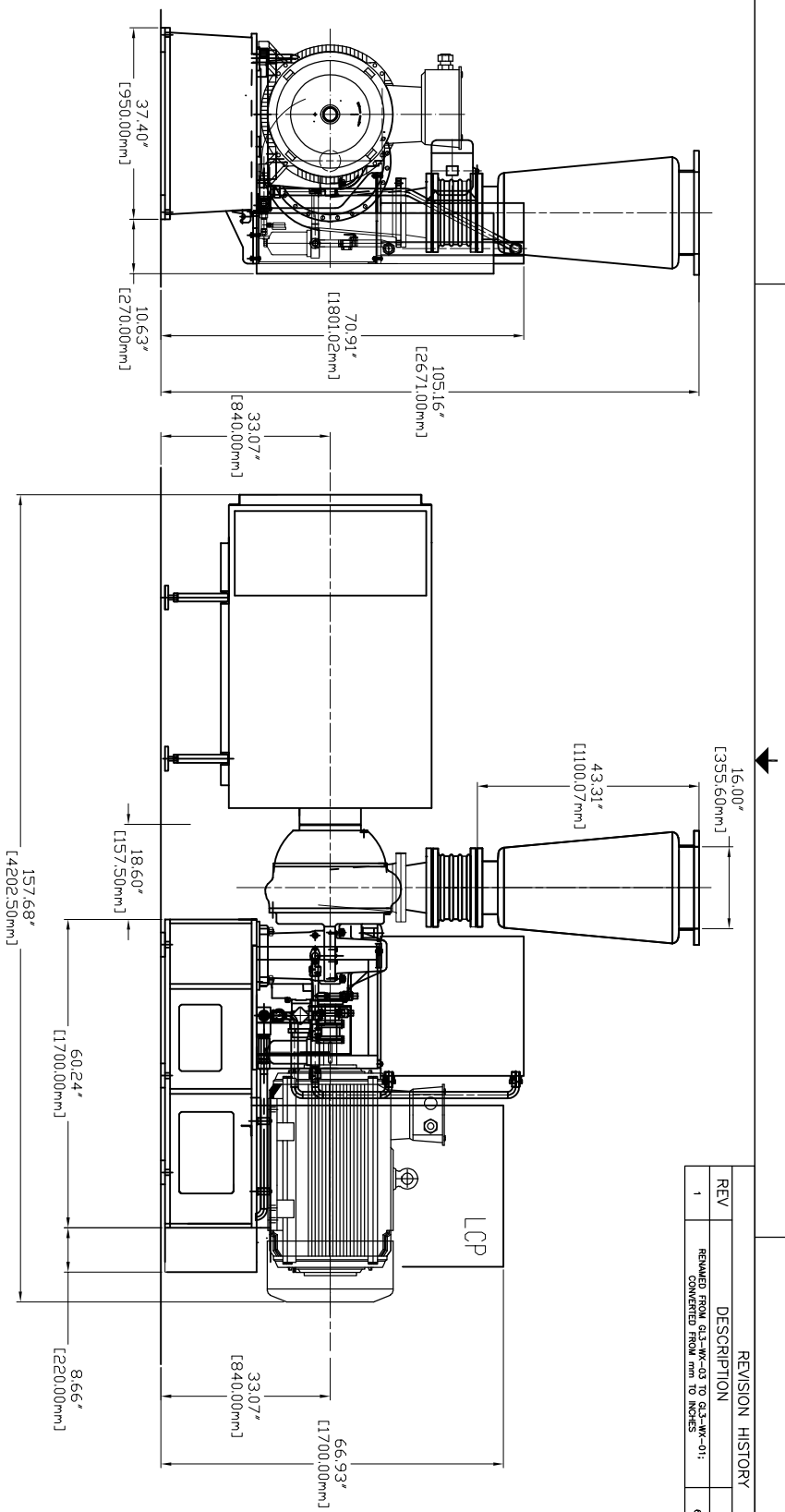
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200HP	60.24	157.68	6,746
250HP	60.24	157.68	6,989



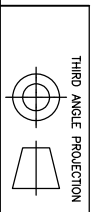
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DRAWN	BW	06/30/2016		LONE STAR BLOWER	
CHECK				GL-3 GEARED TURBO	
ENGINEER				GENERAL ASSEMBLY 14" CONE	
MANUFACTURING CONTROL				SIZE	DWG NUMBER
APPROVED				A	GL3-WX-01
				SCALE	REV
					01

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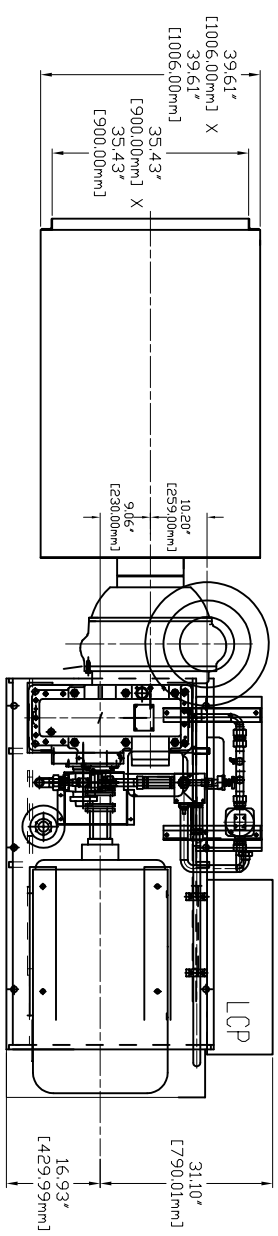
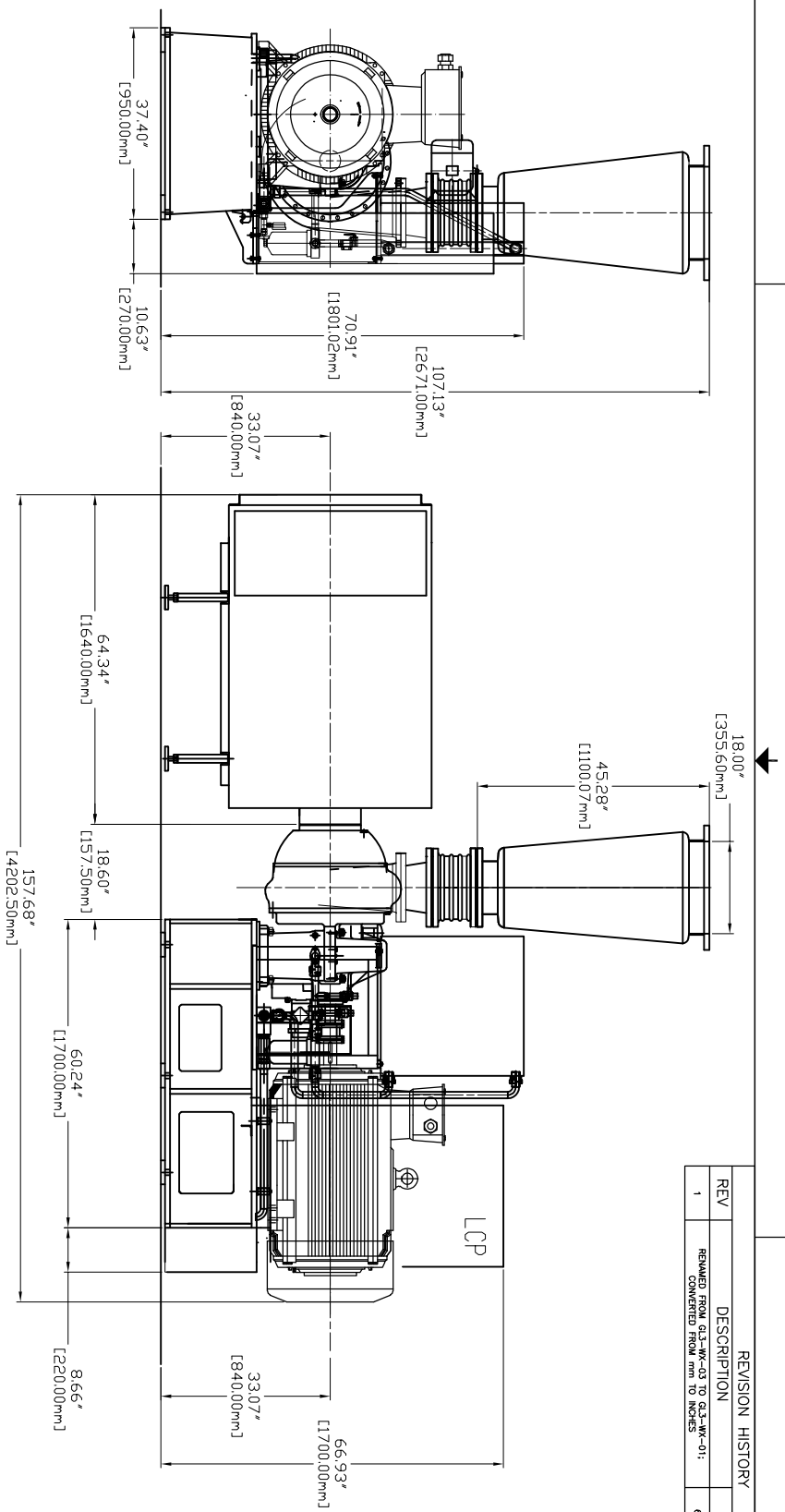
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ENGINEER		MANUFACTURING	
CONTROL		APPROVED	

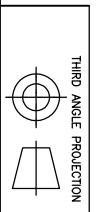
 LONE STAR BLOWER	
TITLE	GL-3 GEARED TURBO GENERAL ASSEMBLY 16" CONE
SIZE	A
SCALE	1 OF 1
REV	01


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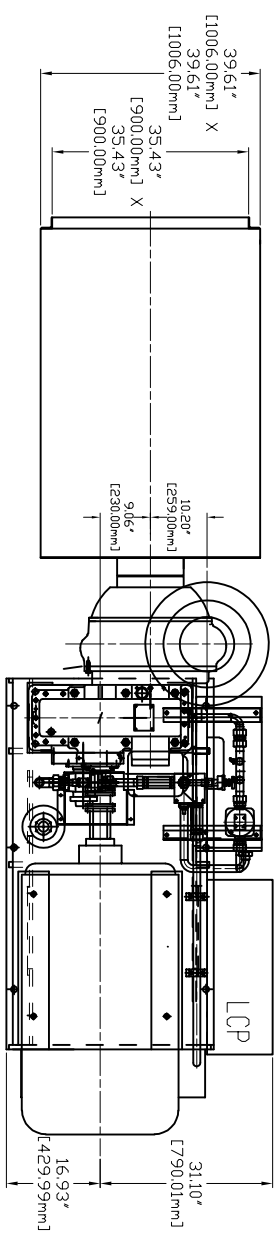
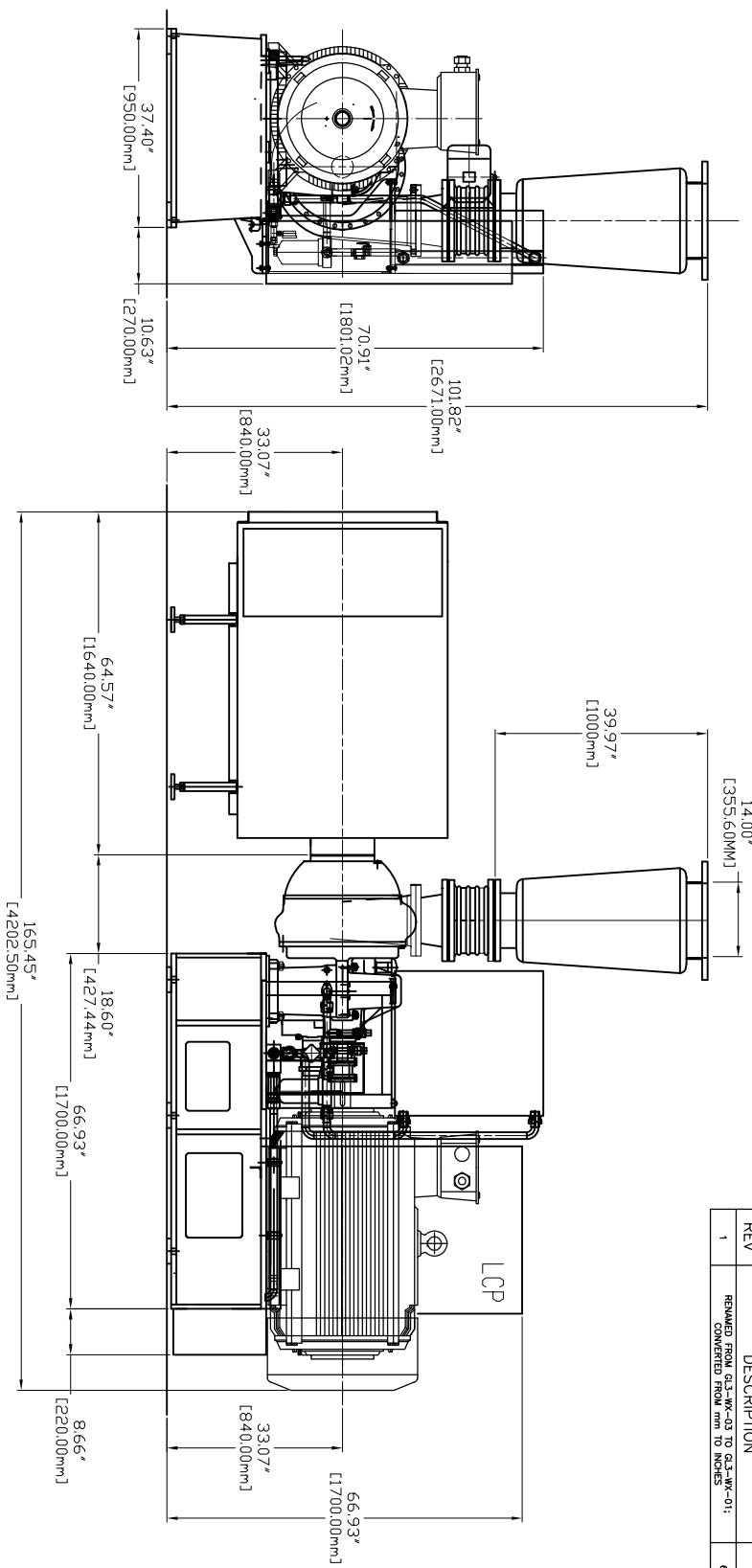
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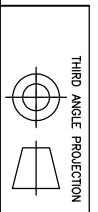
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APPROVED			
 LONE STAR BLOWER		TITLE GL-3 GEARED TURBO GENERAL ASSEMBLY 18" CONE	
SIZE	CAGE CODE	DWG NUMBER	REV
A	-	GL3-WX-01	01
SCALE	SHEET 1 OF 1		

REVISION HISTORY		
REV	DESCRIPTION	DATE
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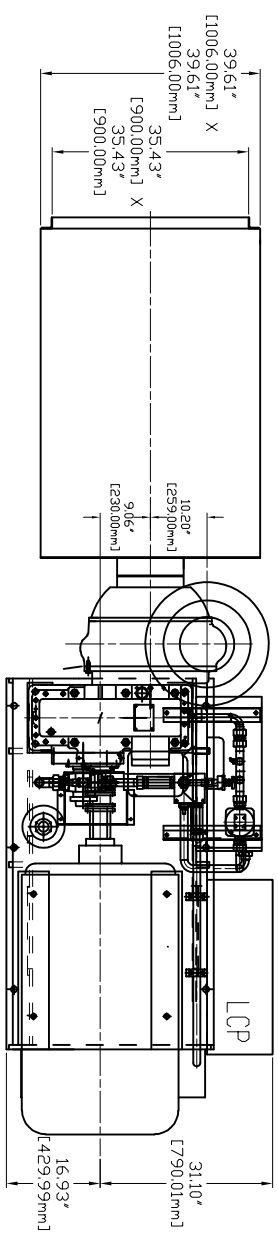
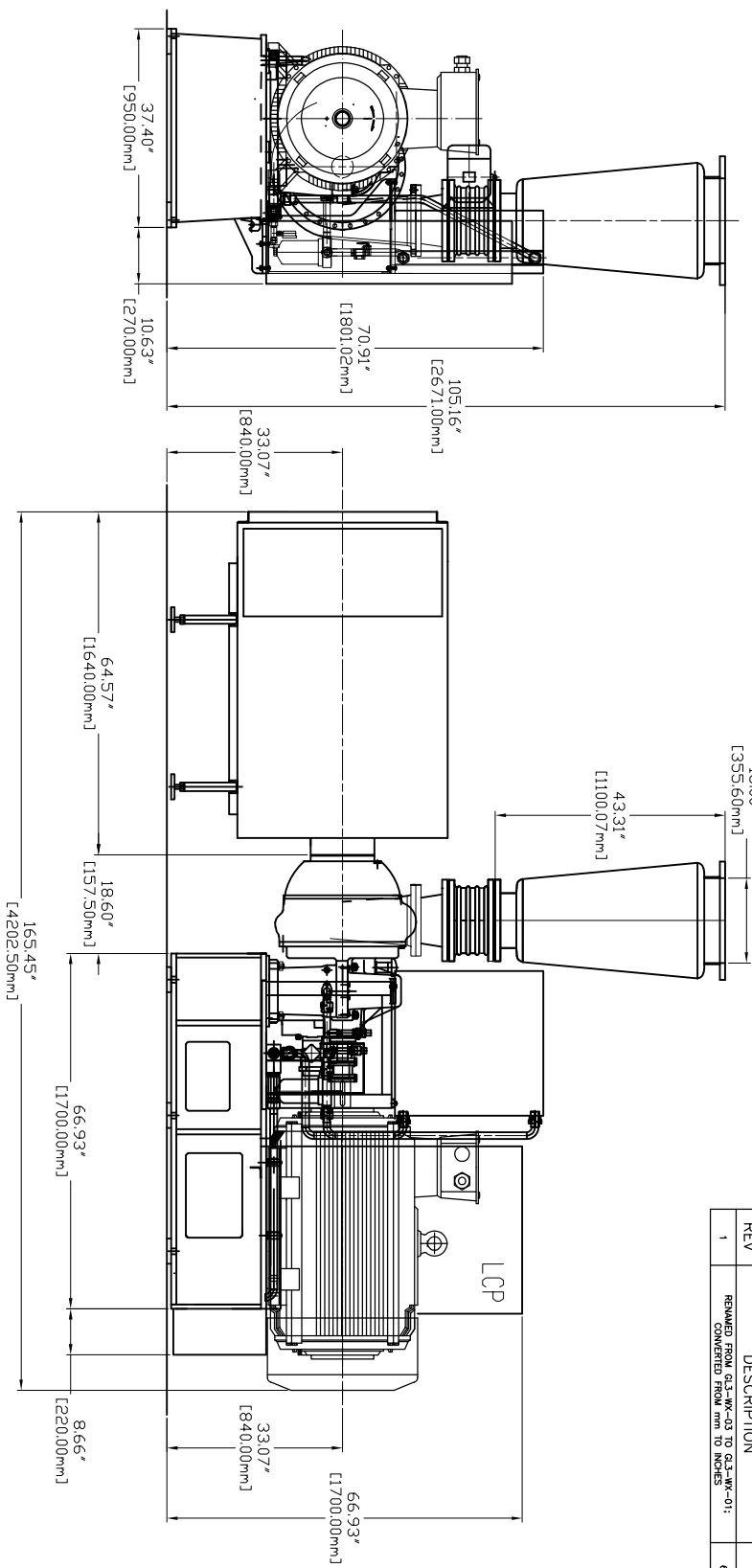
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MANUFACTURING		CONTROL	
APPROVED		SCALE	
		LONE STAR BLOWER	
TITLE		GL-3 GEARED TURBO	
GENERAL ASSEMBLY		14" CONE	
SIZE	CAGE CODE	DWG NUMBER	REV
A	-	GL3-WX-01	01
SHEET 1		OF 1	

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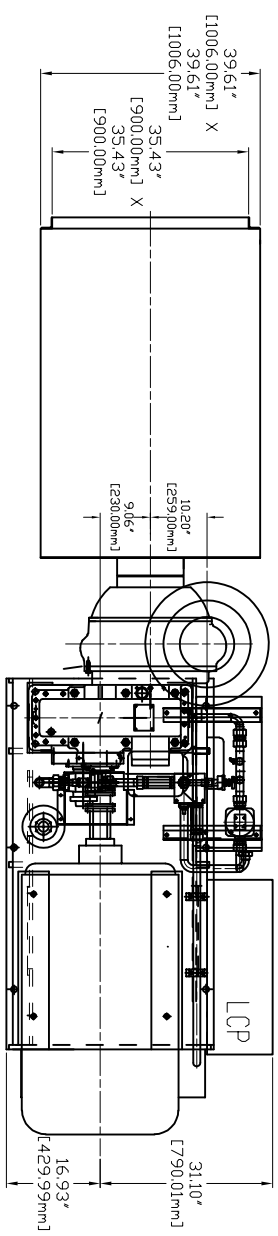
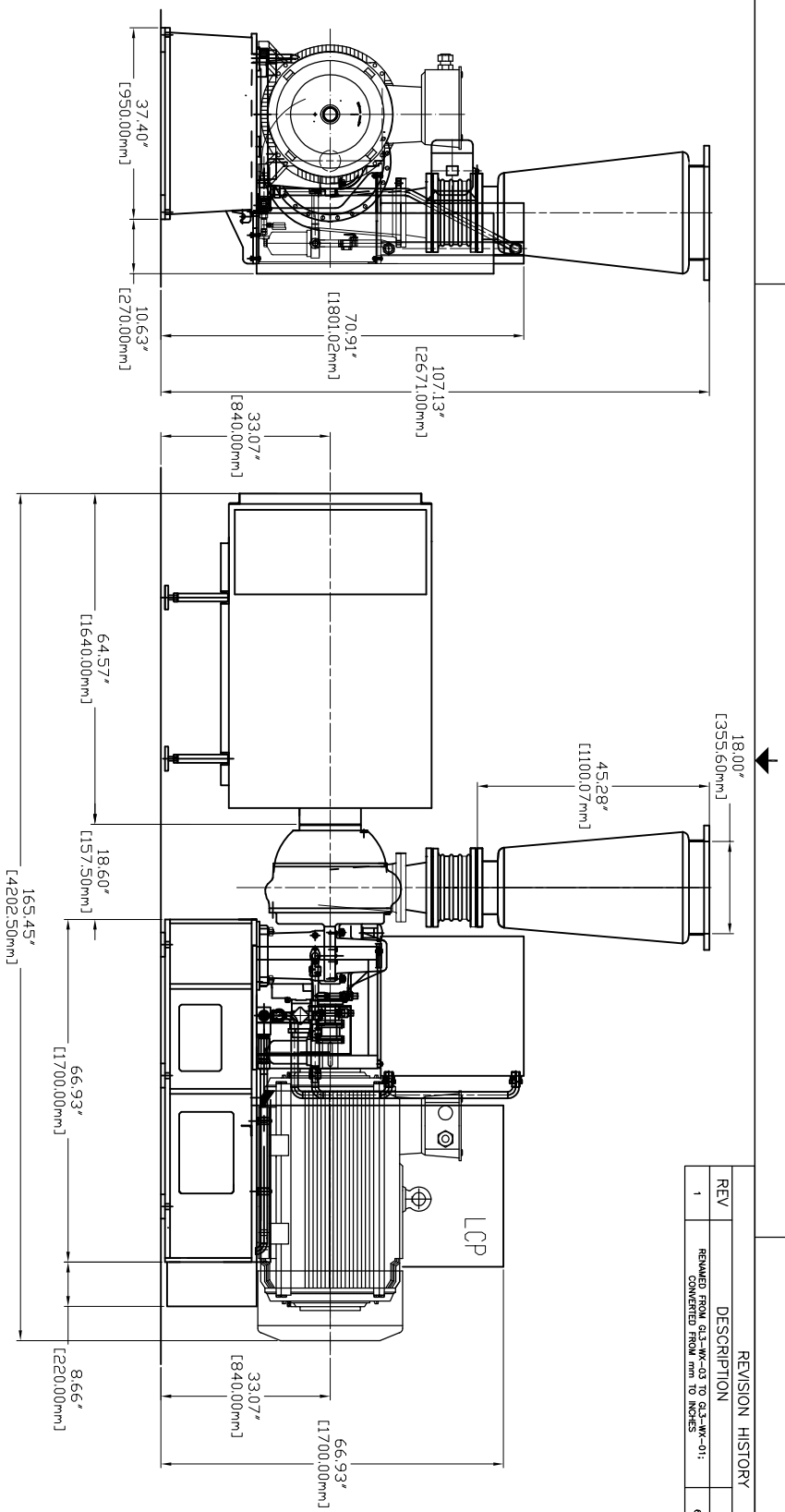
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<p>THIRD ANGLE PROJECTION</p>			

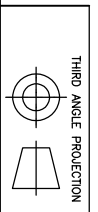
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SCALE	SHEET 1 OF 1		

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GENERAL ASSEMBLY 18" CONE	
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SCALE	SHEET 1 OF 1
REV	REV
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