

REVISIONS									
REV.	DESCRIPTION	ECO	NO	DATE	REV'D	CHKD	APPL		
-	RELEASED	52246	01/30/15	-	SBN	SKC	-		

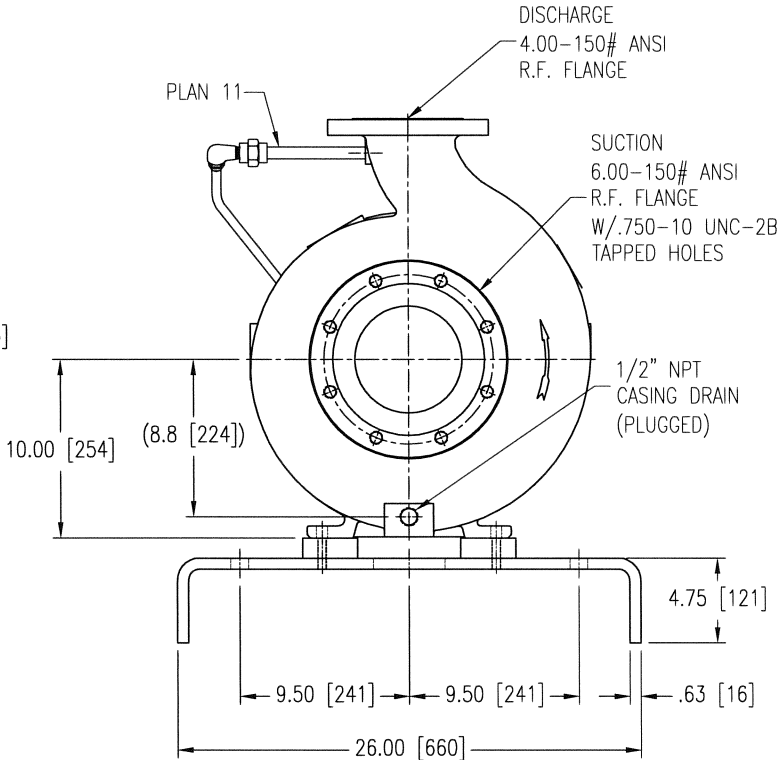
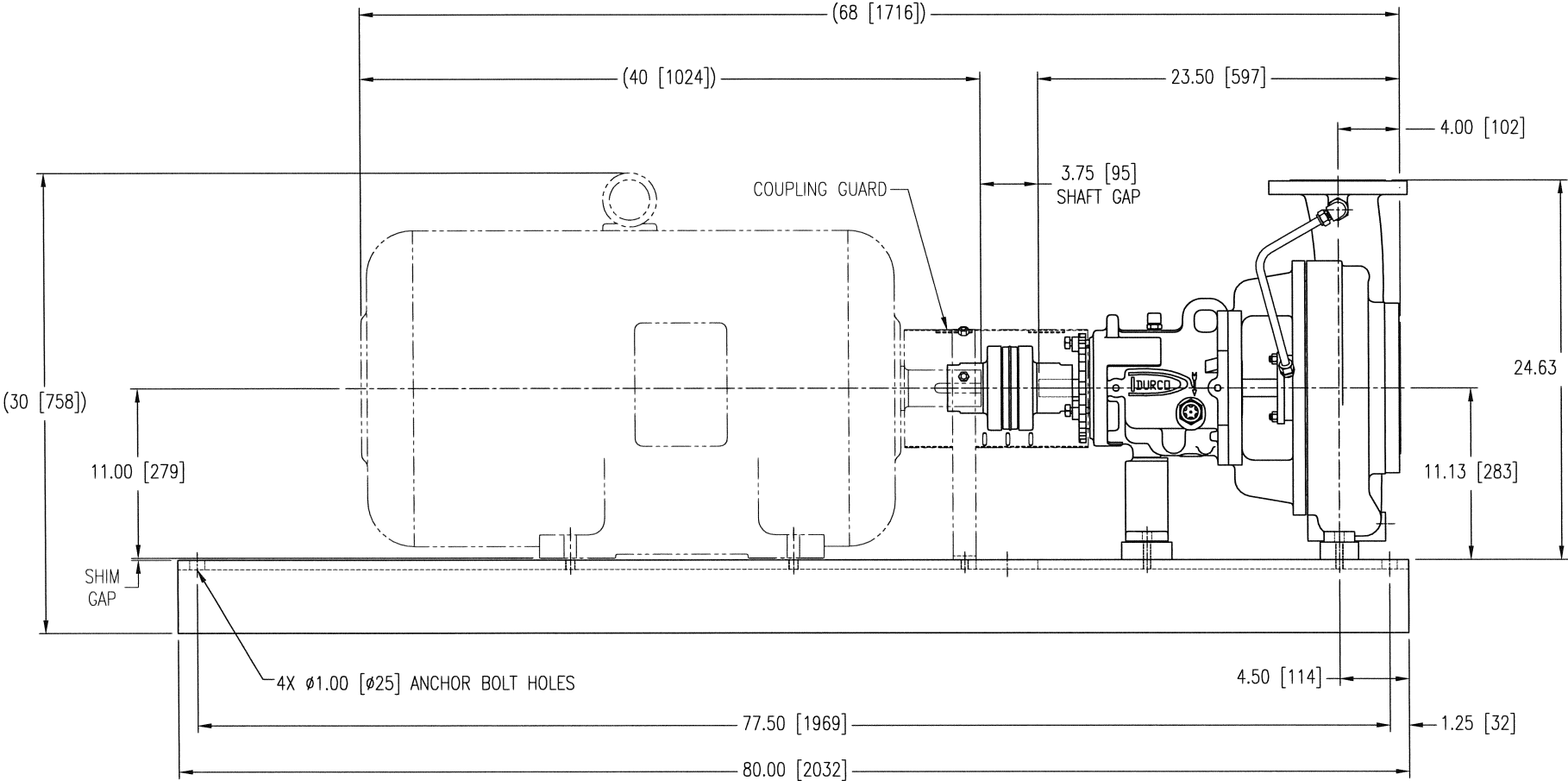
GENERAL NOTES:

1. CONSULT INSTRUCTION BOOK BEFORE INSTALLING PUMP.
2. ALL DIMENSIONS GIVEN IN INCHES [mm] AND WEIGHTS IN POUNDS [kg].
3. ALL PIPE TAPS ARE STANDARD N.P.T. THREADS.
4. ALL HOLES IN FLANGES STRADDLE CENTERLINES.
5. ALLOW .25" [6 mm] FOR VARIATION OF FOUNDATION BOLT HOLES.
6. STANDARD TOLERANCE FOR CUSTOMERS PIPE CONNECTIONS ARE AS FOLLOWS:

A. ±.25" [±6 mm] ON ALL (2) PLACE DECIMAL DIMENSIONS

B. ±1.00" [±25 mm] ON ANY FLUSH, DRAIN OR COOLING PIPING FLANGE LOCATION DIMENSIONS

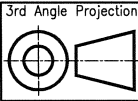
C. OR AS SPECIFIED FOR SPECIFIC DIMENSIONS ON THE GENERAL ARRANGEMENT.
7. FOUNDATION BOLTS AND PIPING SHOULD NOT BE SET RIGIDLY UNTIL RECEIPT OF EQUIPMENT.
8. ALLOW .75" [19 mm] UNDER BASEPLATE FOR GROUTING.
9. RECHECK ALIGNMENT AFTER UNIT REACHES OPERATING CONDITIONS.
- 10."THE DESIGN OF PIPING SYSTEM, FOUNDATIONS, AND OTHER AREAS OF SYSTEM DESIGN IS THE RESPONSIBILITY OF OTHERS. FLOWERVE CORPORATION DATA AND COMMENTS ARE OFFERED AS AN AID, BUT FPD CANNOT ASSUME RESPONSIBILITY FOR THE DESIGN AND OPERATION. WE RECOMMEND THAT THE CUSTOMER CONSULT A SPECIALIST SKILLED IN THE DESIGN OF FOUNDATIONS, PIPING, SUMPS AND RELATED SYSTEMS SO AS TO SUPPLEMENT AND INTERPRET FLOWERVE CORPORATION INDUSTRIAL PUMP DIVISION INFORMATION AND ENSURE A SUCCESSFUL INSTALLATION."
- 11.DRIVER DIMENSIONS ARE APPROXIMATE. REFER TO CERTIFIED DRIVER DIMENSIONS DRAWING FOR EXACT DIMENSIONS, IF NEEDED.
- 12.USE ONLY SIGNED CERTIFIED PRINTS FOR CONSTRUCTION.



WEIGHT (APPROX)		COUPLING		DRIVER DATA			
	lb [kg]	TYPE	TB WOODS	MFR.	BY OTHERS		
PUMP	324 [147]	MODEL	SUREFLEX	ENCLOSURE	TEFC		
DRIVER	1430 [649]	SIZE	SC8/10H	FRAME	444TS		
BASE	481 [218]			HP [kW]	125 [93.21]	RPM	3600
COUPLING	23 [10]	SHAFT GAP		CHARACTERISTIC	3/60/460		
CPL. GRD.	10 [5]			SHAFT DIAMETER	KEYWAY		
TOTAL	2268 [1029]	3.75 [95]		2.375 [60.325]	2.374 [60.300]	.63 [16] X .31 [8]	

PROPRIETARY NOTE
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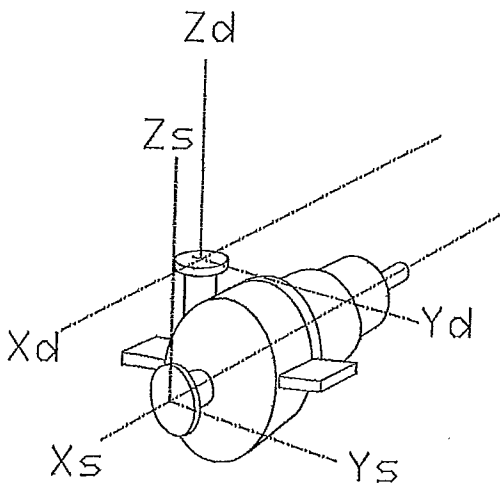
APPROVAL NOTE TO CUSTOMER
1. PURCHASER'S COMMENTS AND/OR CORRECTIONS, WITHIN THE SCOPE OF CONTRACT WILL BE MADE ON THE FIRST COMPLETED CERTIFIED DRAWING SUBMITTED BY FLOWERVE CORP. AND RETURNED.
2. CORRECTIONS, ALTERATIONS, ADDITIONS AND/OR MODIFICATIONS OUTSIDE SCOPE OF CONTRACT OR MADE AFTER FIRST SUBMITTAL MAY REQUIRE AN ADDITIONAL ENGINEERING SERVICE CHARGE.
3. ITEMS CONDITIONALLY APPROVED OR WITH DEFERRED APPROVAL BY PURCHASER MUST BE SPECIFICALLY STATED OTHERWISE DELIVERY MAY BE EFFECTED.



P.O. No.: 4085812	FLOW: 1170.0 gpm [265.74 m³/h]
END USER: AGI INDUSTRIES	HEAD: 237.0 ft [72.24 m]
JOB: -	BHP: 110.0 hp [82.03 kW]
PLANT: -	EFFICIENCY: 63.4 %
TAG No.: P-3331 A/B/C	RPM: 3500
SERVICE: COOLING TOWER	FLUID: OTHER
ITEM: 001	TEMP: 100 °F [37.9 °C]
SERIAL No.: 1175424CHP001A/B/C	S.G.: 1.000
CUSTOMER INFORMATION	
OPERATING CONDITIONS	

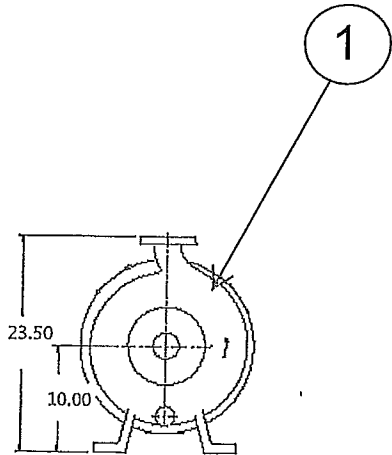
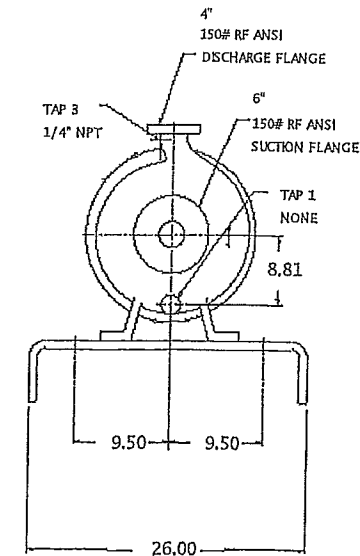
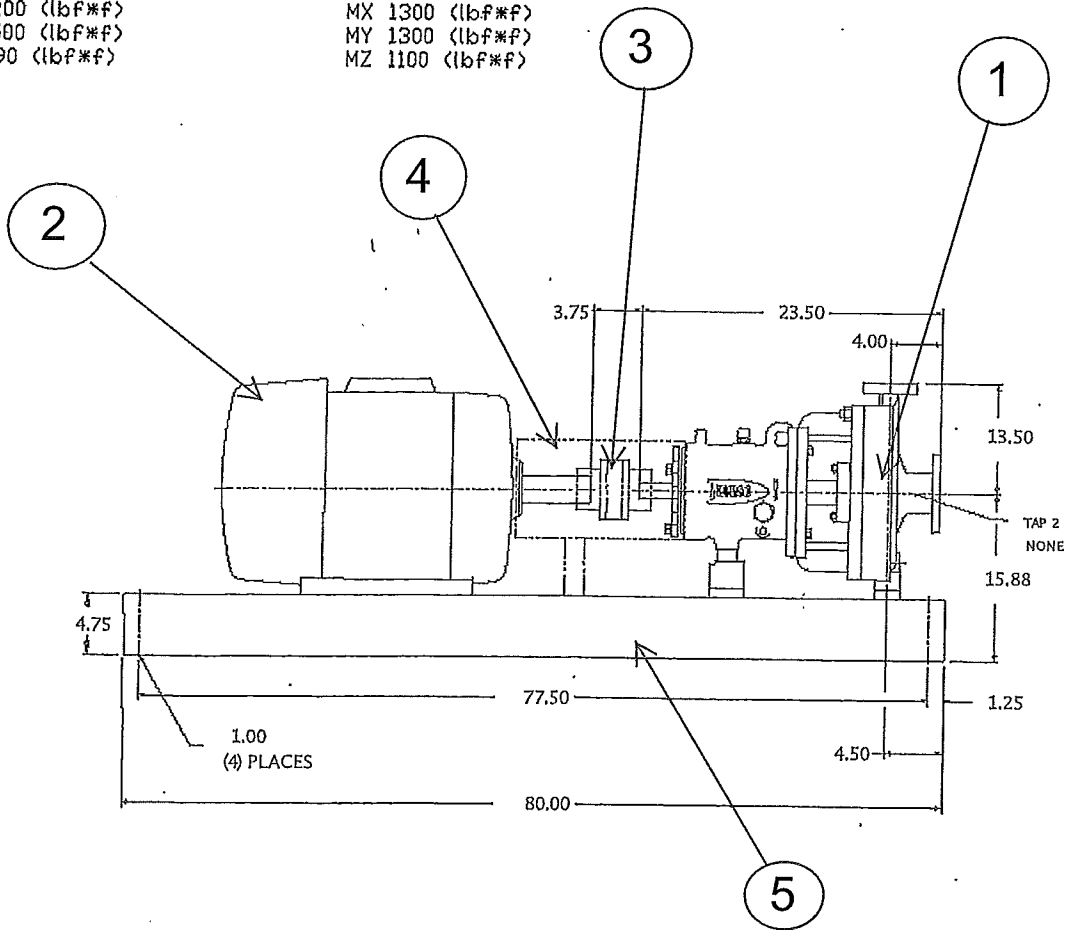
STATUS OF APPROVAL	
CERTIFIED	
ORDER No. 1175424	
DRAWN BY SBN	DATE 01/30/15
CHECKED BY SKC	DATE 01/30/15
APPROVED BY CJS	DATE 02/10/15
CERTIFIED BY <i>[Signature]</i>	

DWG TITLE	
GENERAL ARRANGEMENT	
2K 6X4-13ARV MK3 W/444TS FR.	
SIZE A2	DRAWING NO. J001175424001
FILE CAD.:	REV.
SCALE: NTS	UNITS: DUAL
SHEET NO. 1	of 1



FORCE/MOMENT

<F> DISCHARGE NOZZLE - 4"		<F> SUCTION NOZZLE - 6"	
FX	1400 (lbf)	FX	2700 (lbf)
FY	1350 (lbf)	FY	1350 (lbf)
FZ	3250 (lbf)	FZ	1500 (lbf)
<M> DISCHARGE NOZZLE - 4"		<M> SUCTION NOZZLE - 6"	
MX	1200 (lbf*F)	MX	1300 (lbf*F)
MY	1500 (lbf*F)	MY	1300 (lbf*F)
MZ	690 (lbf*F)	MZ	1100 (lbf*F)



BILL OF MATERIALS

ITEM NO.	QTY	DESCRIPTION	LENGTH	MAT'L
1	1	FLOW SERVE 2K6X4-13ARV M3 ST 1170 GPM 3500 RPM		
2	1	125HP FRAME 444TS ELECTRIC MOTOR		
3	1	COUPLING 3.75" SPACING		
4	1	ALUMINUM GUARD		
5	1	FORMED CHANNEL BASEPLATE (CARBON STEEL)		A36

WEIGHTS

PUMP	324#
MOTOR	1968#
BASEPLATE	481#
GUARD	15#
	2788#

TAG NOS. P-3331A / 3331B / 3331C

VENTECH
COOLING WATER PUMP
ARRANGEMENT

AGI Industrial

SCALE: NTS
DATE: 7/29/13
DRAWN: lppc
QUOTE#:

APP'D BY:
CK'D BY:
WP#: 14-026
PO#: 4777010-14-03287

AGI-14-026-P-3331.0

FOR APPROVAL

DATE

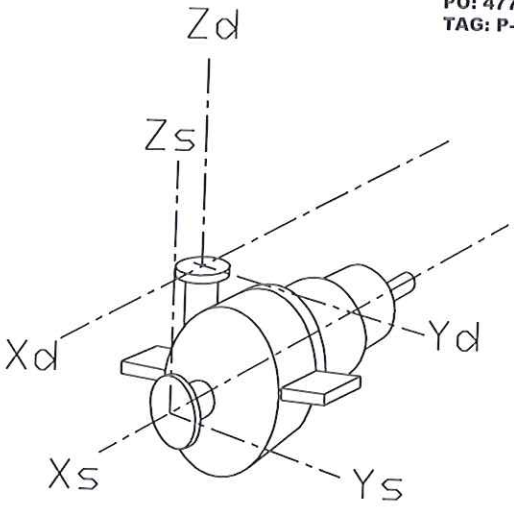
BY

CD

AS

DESCRIPTION

CODE: A08 Certified As-Built
PO: 4777010-14-03287
TAG: P-3331A/B/C



WEIGHTS

PUMP	324#
MOTOR	1968#
BASEPLATE	481#
GUARD	15#
	2788#

BILL OF MATERIALS				
ITEM NO.	QTY	DESCRIPTION	LENGTH	MAT'L
1	1	FLOW SERVE 2K6X4-13ARV M3 ST 1170 GPM - 237 FT 3500 RPM		
2	1	SIEMENS 125HP FRAME 444TS ELECTRIC MOTOR		
3	1	COUPLING 3.75' SPACING		
4	1	ALUMINUM GUARD		
5	1	FORMED CHANNEL BASEPLATE (CARBON STEEL)		A36

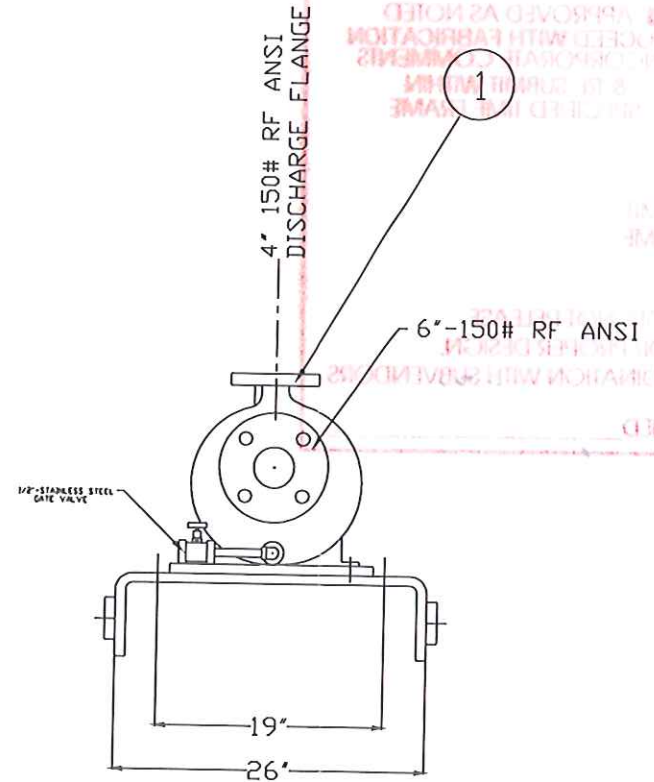
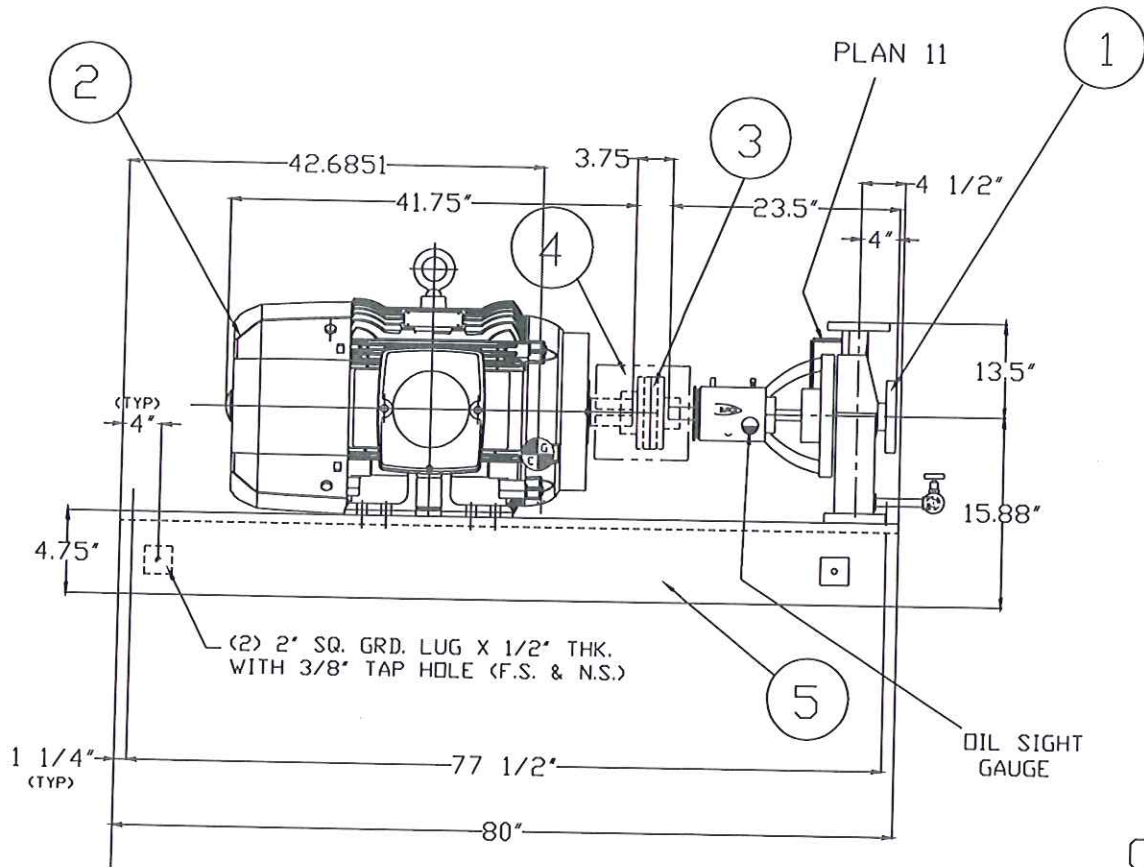
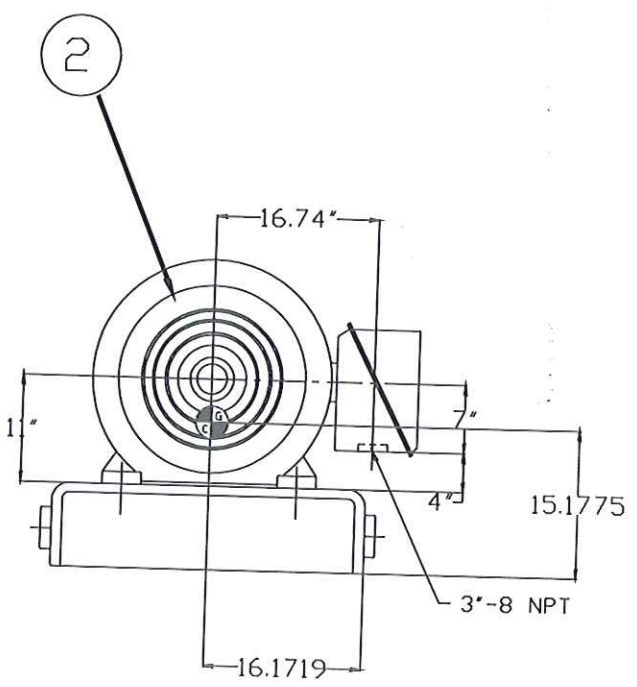
FORCE/MOMENT

(F) DISCHARGE NOZZLE - 4"	(F) SUCTION NOZZLE - 6"
FX 1400 (lbf)	FX 2700 (lbf)
FY 1350 (lbf)	FY 1350 (lbf)
FZ 3250 (lbf)	FZ 1500 (lbf)
(M) DISCHARGE NOZZLE - 4"	(M) SUCTION NOZZLE - 6"
MX 1200 (lbf*f)	MX 1300 (lbf*f)
MY 1500 (lbf*f)	MY 1300 (lbf*f)
MZ 690 (lbf*f)	MZ 1100 (lbf*f)

NOTE:

FOR P-3331B/C IMPELLERS UPGRADED TO D4 MATERIAL

AS BUILT



COOLING WATER PUMPS
TAG NOS. P-3331A / 3331B / 3331C

VENTECH XTL OKLAHOMA CITY, LLC.
COOLING WATER PUMP
TAG P-3331A/3331B, 3331C

AGI Industries

SCALE: NTS
DATE: 7/29/13
DRAWN: bpa
CK'D BY: WP# 14-026
APP'D BY: PO# 4777010-14-03287

AGI-14-026-P-3331.0

REVISIONS

NO	BY	DATE	DESCRIPTION
3	BA	12/21/15	ADDED DRAIN VALVE BACK
2	BA	11/24/15	CHG. DESCRIPTION, CDD, DDK
1	1		ADDED DRAIN AND SEAL PLAN
0			FOR APPROVAL

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