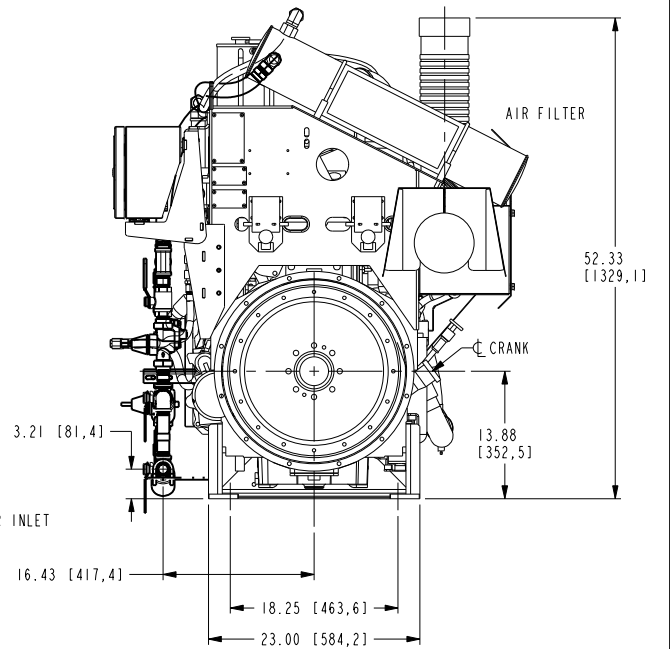
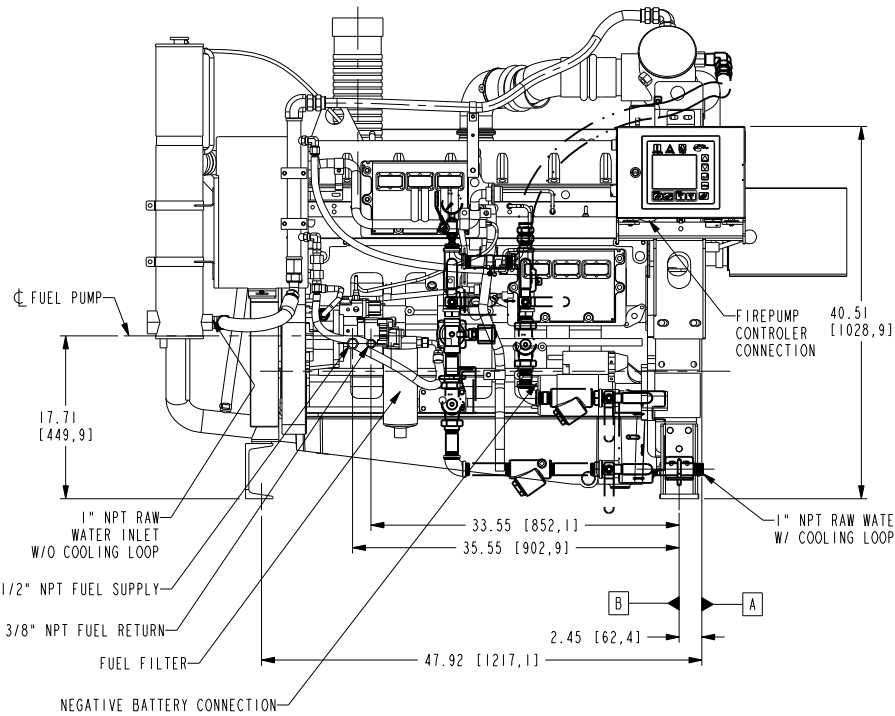
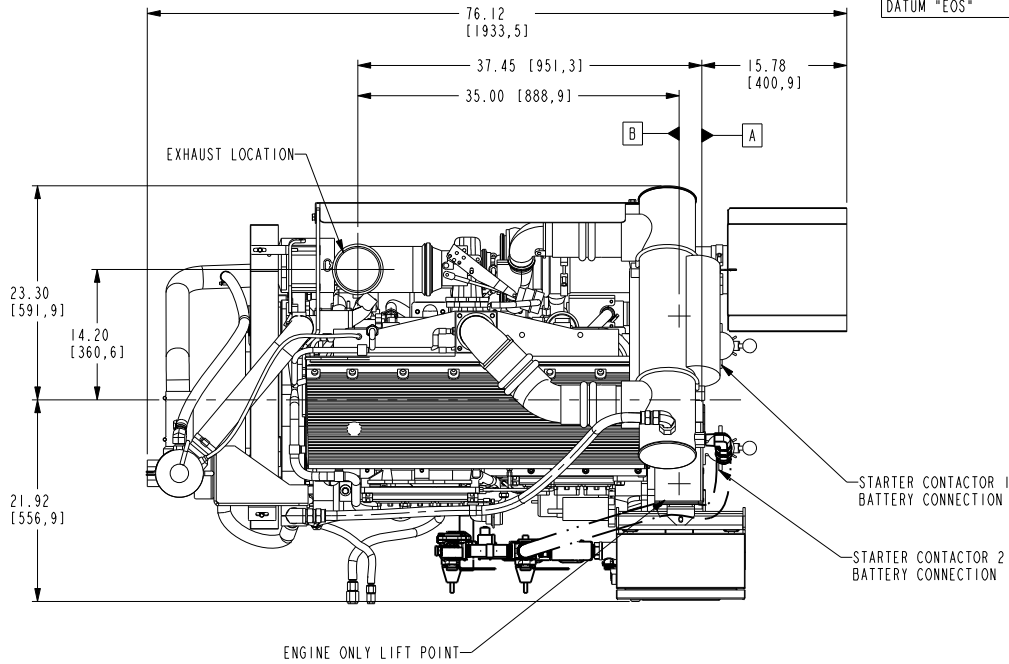
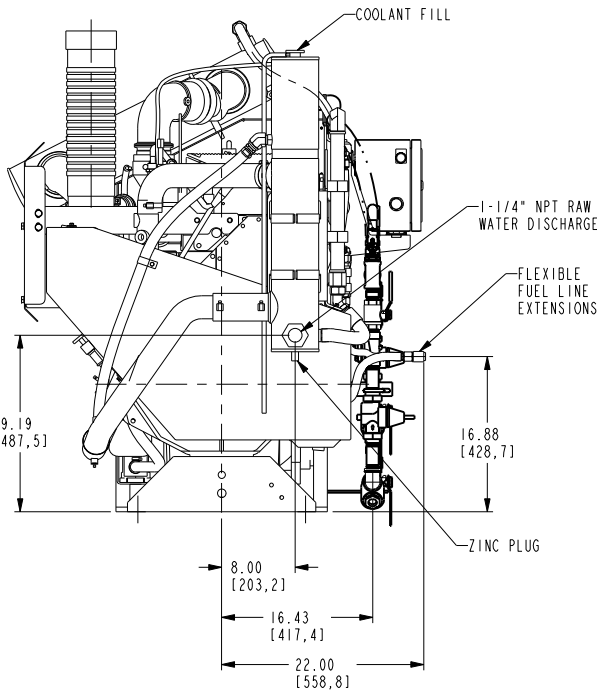
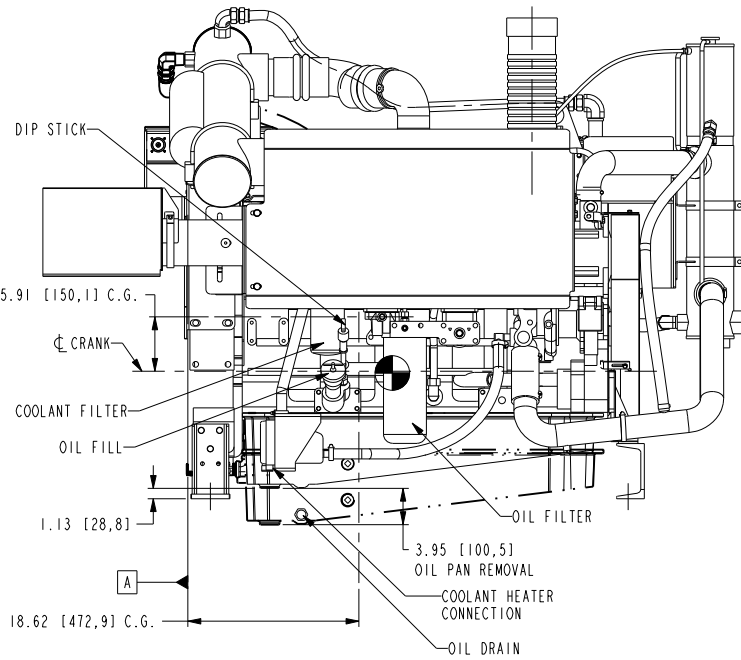
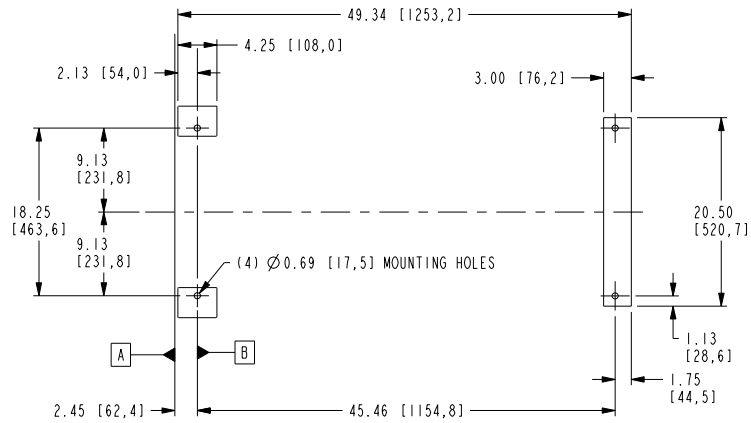


CFPIIE CONNECTION INFORMATION	
SAE #1	FLYWHEEL HOUSING
1/4" NPT	FUEL INLET
3/8" NPT	FUEL OUTLET
1" NPT	RAW WATER INLET
1 1/4" NPT	RAW WATER DISCHARGE
120 / 240 VAC	COOLANT HEATER (2250 WATTS)
5" DIA NPT, CUFF, OR FLANGE	EXHAUST CONNECTION

- NOTES:
1. ALL PLUMBING MUST BE SUPPORTED AND/OR ISOLATED SO THAT NO WEIGHT OR STRESS IS APPLIED TO ANY ENGINE COMPONENT.
 2. REFER TO ENGINE DATA SHEET FOR CUSTOMER CONNECTION RECOMMENDATIONS.
 3. DO NOT SCALE DRAWING.
 4. DRAWING SUBJECT TO CHANGE WITH OUT NOTICE.

LEGEND AND DATUM IDENTIFIER	
SHEET #1	INSTALLATION DRAWING
SHEET #2	GENERAL ARRANGEMENT - HORIZONTAL SPLIT CASE PUMP BASE OPTION
SHEET #3	GENERAL ARRANGEMENT - VERTICAL TURBINE PUMP BASE OPTION
SHEET #4	DRIVE LINE OPTIONS
DATUM "A"	FACE OF FLYWHEEL HOUSING
DATUM "B"	REAR LEG BOLT LOCATION
DATUM "C"	FLYWHEEL MOUNTING SURFACE
DATUM "D"	UJOINT ADAPTER MOUNTING SURFACE
DATUM "EOS"	END OF PUMP SHAFT

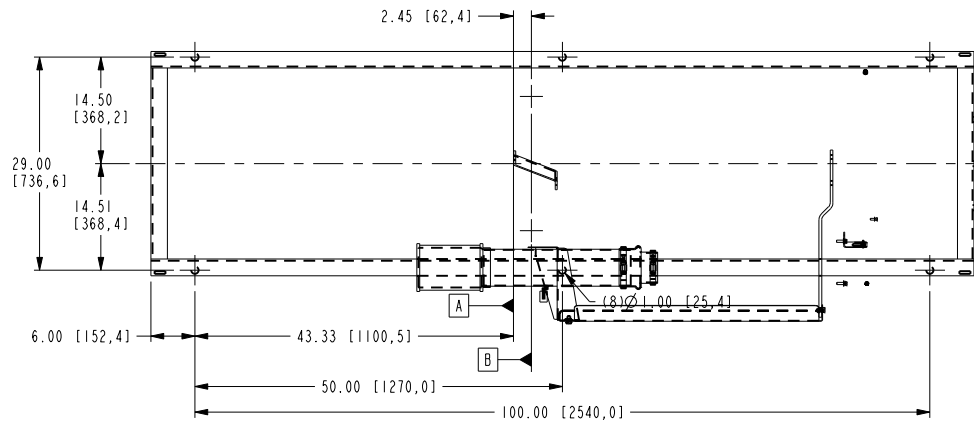


**SHOWN WITH OPTIONAL COOLING LOOP

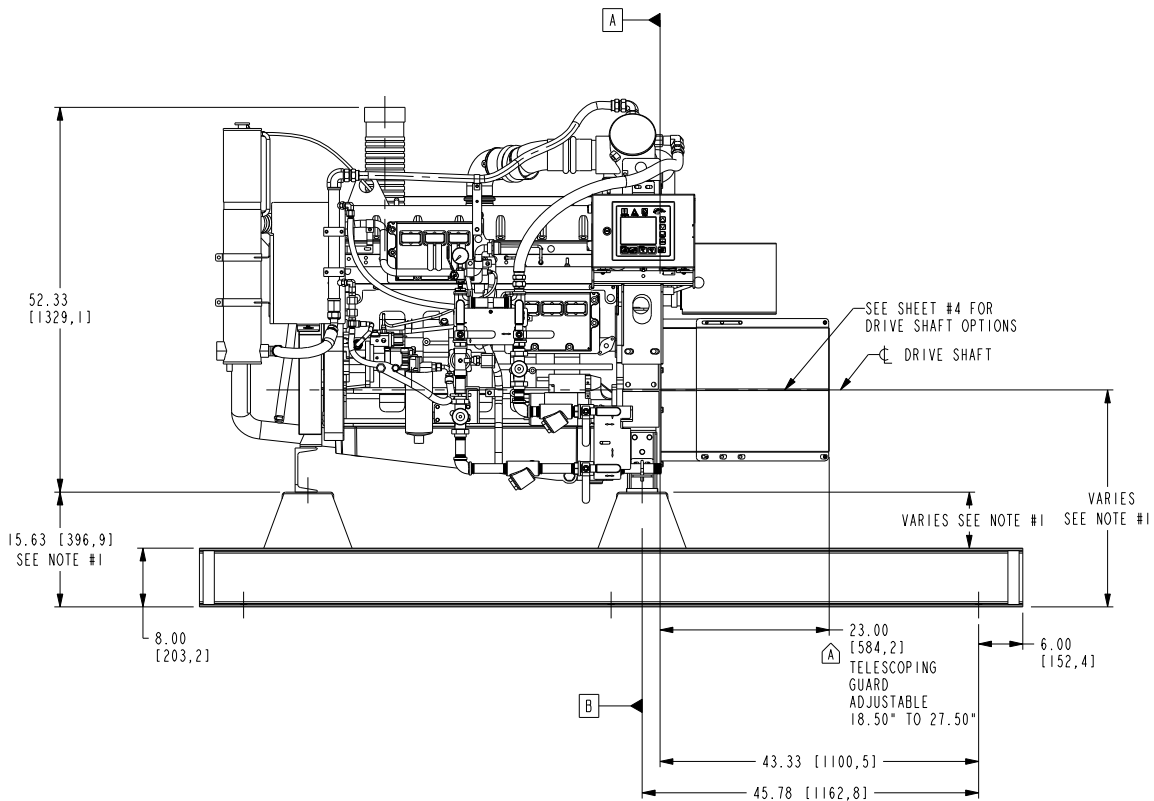
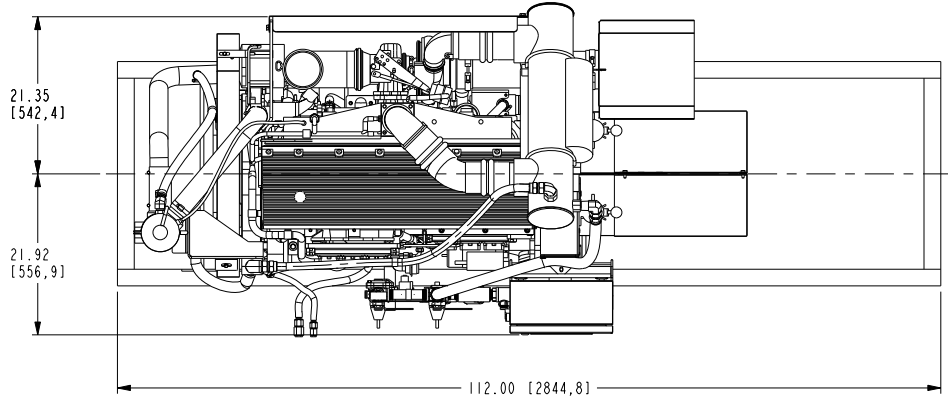
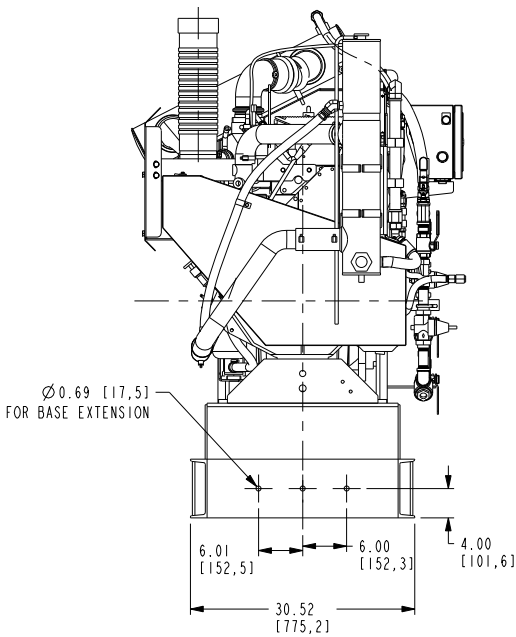
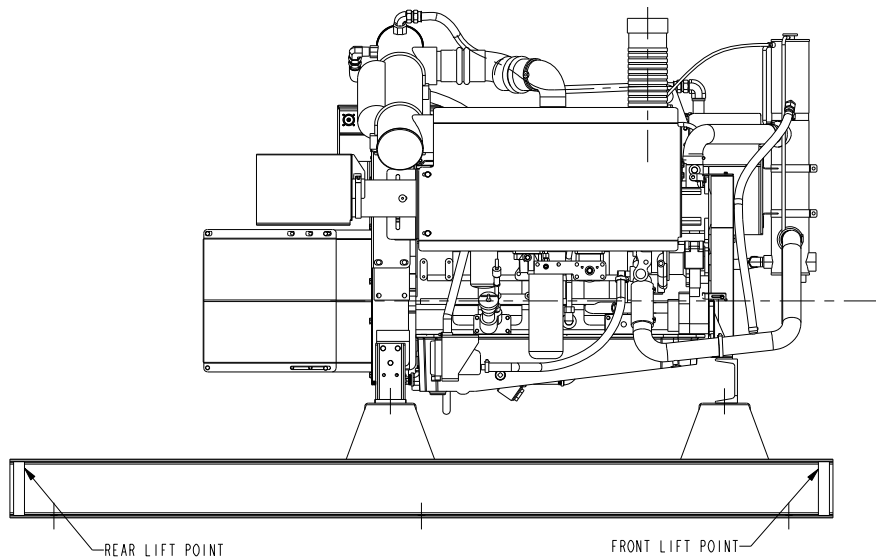
A		2010-015	OMIT NON-LIST DRIVE SHAFT ADDED U-JOINT ADAPTER: 15501 ADDED DRIVE SHAFT: 13422 CHG DRIVE SHAFT: 13430 WAS 13421 CHG COMP. FLG: 10015 WAS 10005 CHG GUARD: 16381 WAS 14161	MAC	15FEB2010	UNLESS OTHERWISE SPECIFIED ALL DIMENSION TOLERANCES ARE: ANGULAR DIMENSIONS ±.1° IMPERIAL UNITS THIRD ANGLE PROJECTION METRIC UNITS DWG UNITS: IN/LB/S SCALE: 1:000 EST WEIGHT: VARIES		GENERAL ARRANGEMENT CFPIIE-F10/20 DRAWN BY: DAN SHEET 1 OF 4 DATE: 19-NOV-09 REF DRWG: 16018	
REV	ENF	DESCRIPTION OF REVISION		REV BY	DATE	CUMMINS FIRE POWER LLC CORPORATE OFFICE 1600 BUEKLE ROAD WHITE BEAR LAKE, MN WWW.CUMMINSFIREPOWER.COM		CUSTOM DESIGN AND UJOINT CENTER 875 LAWRENCE DRIVE DEPERE, WISCONSIN	

CFPIIE CONNECTION INFORMATION	
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1" NPT	RAW WATER INLET
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120 / 240 VAC	COOLANT HEATER (2250 WATTS)
5" DIA NPT, CUFF, OR FLANGE	EXHAUST CONNECTION

LEGEND AND DATUM IDENTIFIER	
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SHEET #2	GENERAL ARRANGEMENT - HORIZONTAL SPLIT CASE PUMP BASE OPTION
SHEET #3	GENERAL ARRANGEMENT - VERTICAL TURBINE PUMP BASE OPTION
SHEET #4	DRIVE LINE OPTIONS
DATUM "A"	FACE OF FLYWHEEL HOUSING
DATUM "B"	REAR LEG BOLT LOCATION
DATUM "C"	FLYWHEEL MOUNTING SURFACE
DATUM "D"	UJOINT ADAPTER MOUNTING SURFACE
DATUM "EOS"	END OF PUMP SHAFT



SECTION A-A



- NOTES:
1. RISER HIEGHT VARIES TO ACCOMDATE CUSTOMER SUPPIED PUMPS
 2. REFERENCE OWERS MANUAL FOR DRIVE SHAFT ALIGNMENT SPECS
 3. DO NOT SCALE DRAWING.
 4. DRAWING SUBJECT TO CHANGE WITHOUT NOTICE.
 5. REFERENCE SHEET #1 FOR BASE FIRE PUMP INTERFACE

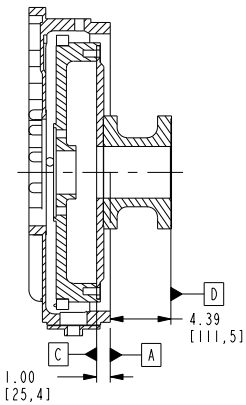
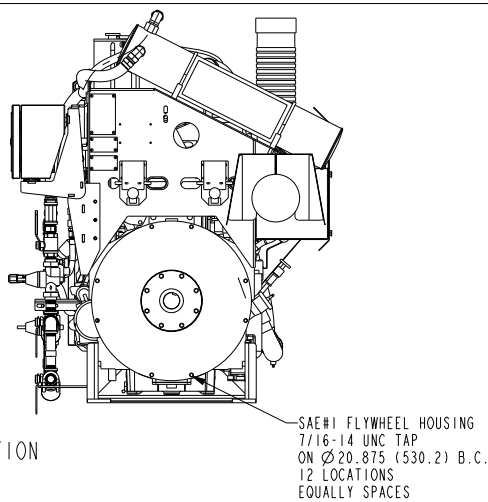
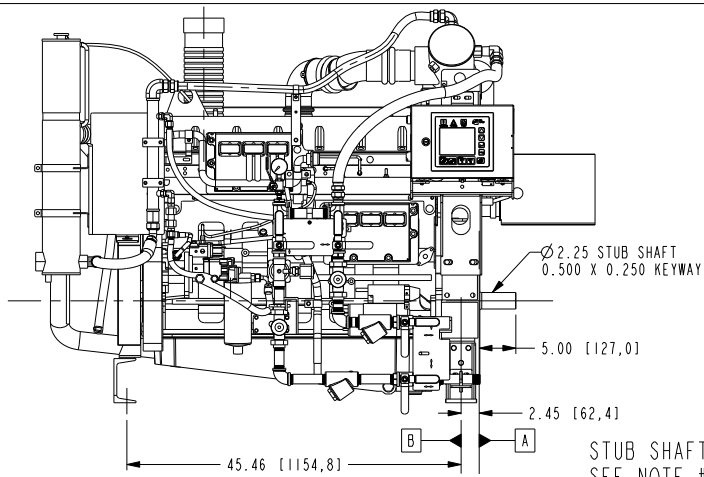
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REV	ENF	DESCRIPTION OF REVISION				REV BY	DATE			SCALE: 1.000		EST WEIGHT: VARIES		SHEET 2 OF 4		DRAWING NO: 16018		REF DRWG:		

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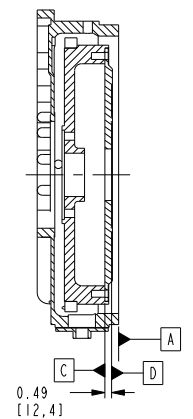


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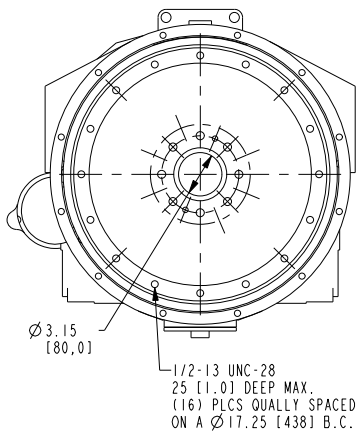
CUSTOM DESIGN
AND OPTIC CENTER
875 LAWRENCE DRIVE
DEPERE, WISCONSIN



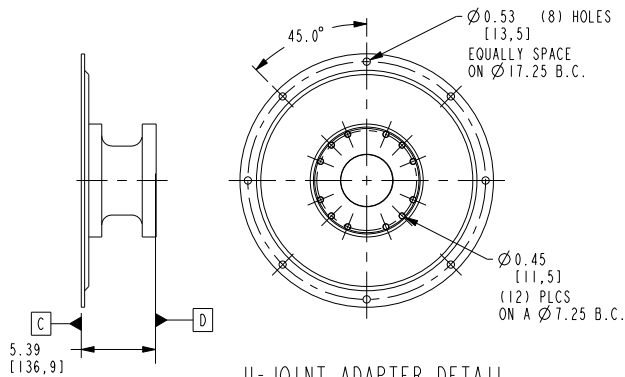
FLYWHEEL HOUSING WITH FLYWHEEL AND U-JOINT ADAPTER (1810 SHAFT)



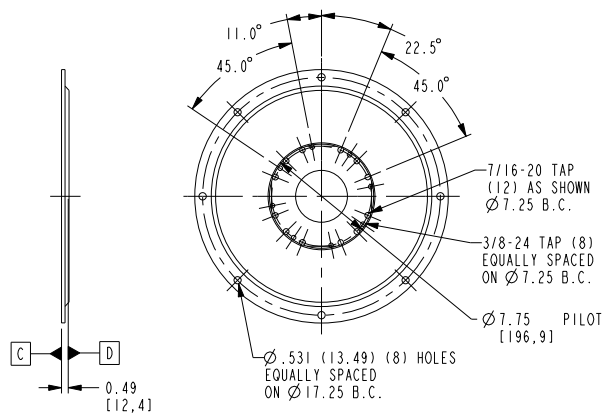
FLYWHEEL HOUSING WITH FLYWHEEL AND U-JOINT ADAPTER (3172 SHAFT)



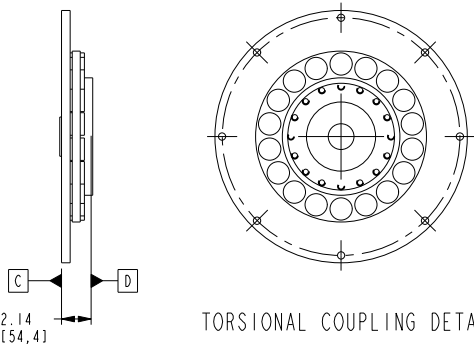
FLYWHEEL HOUSING WITH FLYWHEEL (FLYWHEEL ADAPTER NOT SHOWN)



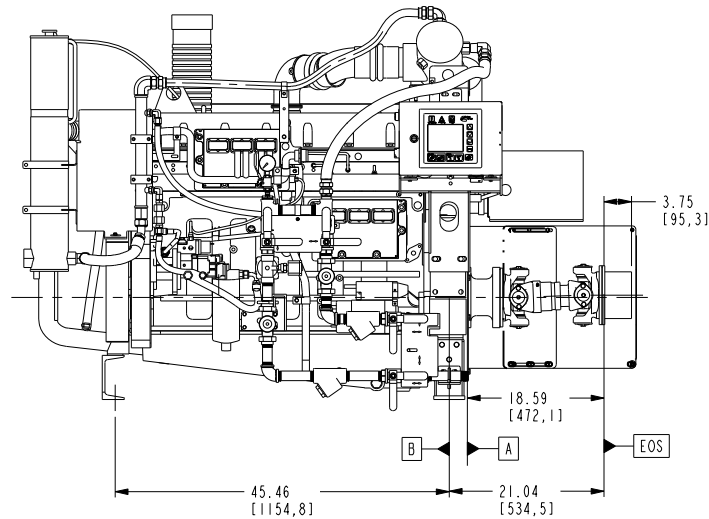
U-JOINT ADAPTER DETAIL 1810 SHAFT



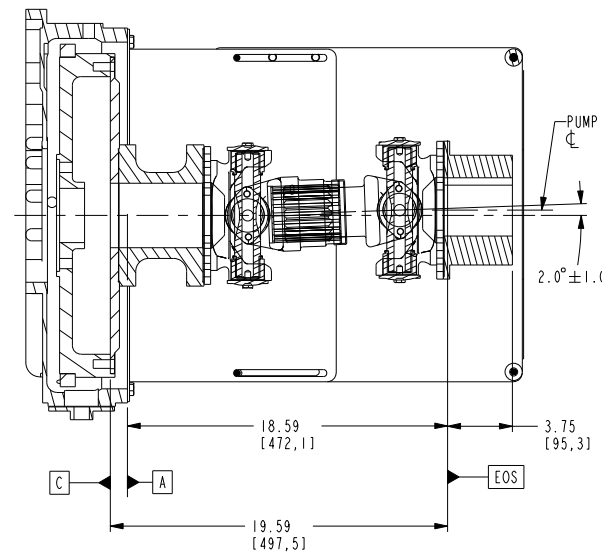
U-JOINT ADAPTER DETAIL 3172 SHAFT



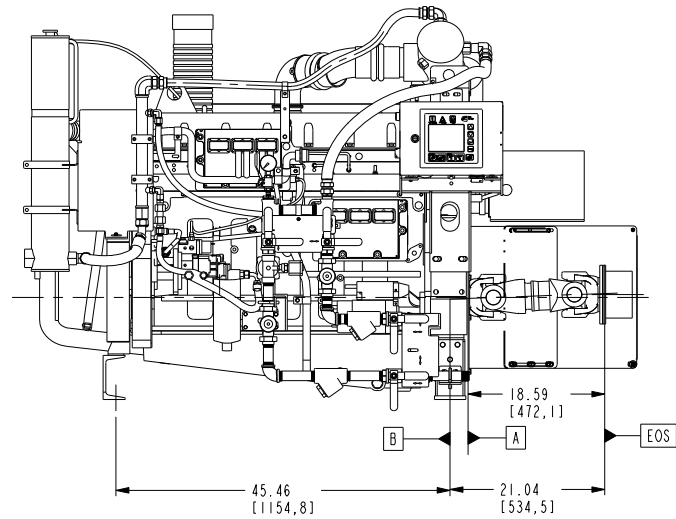
TORSIONAL COUPLING DETAIL



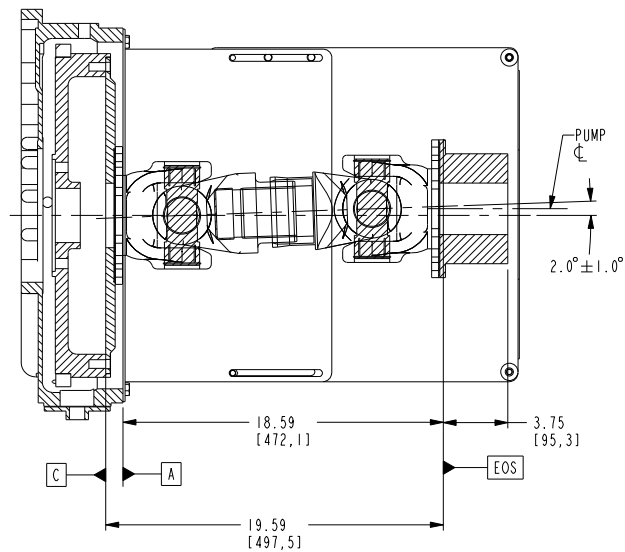
UL-LISTED 1810 SHORT COUPLED SHAFT



UL-LISTED 1810 SHORT COUPLED SHAFT
SCALE: 0.1875" = 1"
EST WEIGHT = 78 LBS (35 KG)



UL-LISTED 3172 SHORT COUPLED SHAFT



UL-LISTED 3172 SHORT COUPLED SHAFT
SCALE: 0.1875" = 1"
EST WEIGHT = 74 LBS (33 KG)

- NOTE:
1. TORSIONAL ANALYSIS REQUIRED FOR VERTICAL TURBINE INSTALLATION
***ADD 1.08" FOR TORSIONAL COUPLING
 2. REFERENCE OWNERS MANUAL FOR DRIVE SHAFT ALIGNMENT SPECS
 3. DO NOT SCALE DRAWING.
 4. DRAWING SUBJECT TO CHANGE WITHOUT NOTICE.
 5. REFERENCE SHEET #1 FOR BASE FIREPUMP INTERFACE

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DATUM "D"	UJOINT ADAPTER MOUNTING SURFACE
DATUM "EOS"	END OF PUMP SHAFT

CFP DRIVE SHAFT MATRIX			
ENGINE MODEL	CFP F-RATINGS W/MULTIPLE SHAFTS		
	RPM 1470	RPM 1760	RPM 2100
CFP11E-F10	3172 SHAFT	3172 SHAFT	1810 SHAFT
CFP11E-F20	3172 SHAFT	3172 SHAFT	1810 SHAFT

REV	ENF	DESCRIPTION OF REVISION	REV BY	DATE
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UNLESS OTHERWISE SPECIFIED ALL DIMENSION TOLERANCES ARE: ANGULAR DIMENSIONS ± 1° THIRD ANGLE PROJECTION		GENERAL ARRANGEMENT CFP11E-F10/20		DATE: 19-NOV-09
DWG UNITS: IN/LB/S		DRAWN BY: DAN		REF DRWG:
SCALE: 0.100		SHEET 4 OF 4		DRAWING NO: 16018
EST WEIGHT: VARIES				