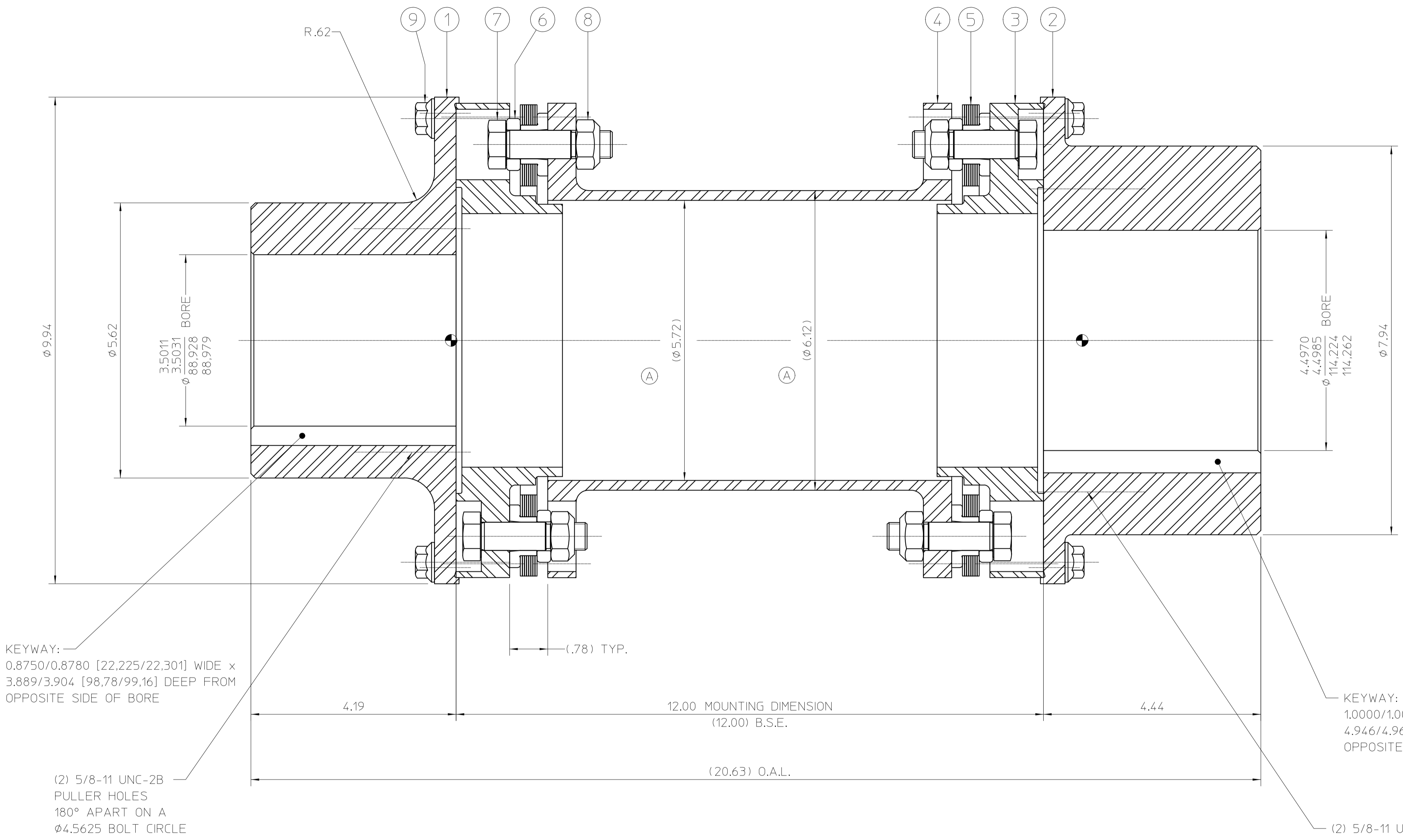


REVISIONS		
A	3-8-10	EC100308A

DRIVER END
STEAM TURBINE

DRIVEN END
GEARBOX PINION



TORSIONAL DATA (CALC.)
 WT.
 TOTAL COUPLING = 133 lbs.
 DRIVER HUB = 24.6 lbs.
 DRIVEN HUB = 45.3 lbs.
 CENTER MEMBER ASSY. = 60.7 lbs.
 WR²
 TOTAL COUPLING = 1616 lbs.-in.²
 DRIVER HUB = 206 lbs.-in.²
 DRIVEN HUB = 506 lbs.-in.²
 CENTER MEMBER ASSY. = 857 lbs.-in.²
 $K_t = 7.46 \times 10^{-6}$ in.-lbs./radain
 (INCLUDES 1/3 SHAFT PENETRATION FACTOR IN EACH HUB)
 CENTERLINE OF GRAVITY
 DRIVER END = 56.1 lbs. AT 0.10 in. FROM SHAFT END TOWARDS EQUIPMENT
 DRIVEN END = 76.8 lbs. AT 0.79 in. FROM SHAFT END TOWARDS EQUIPMENT

OPERATING DATA
 POWER = 3272 hp [2440 kW]
 SPEED = 4622 rpm
 TORQUE = 44,617 in.-lbs.
 66,926 in.-lbs. (INCLUDES 1.50 SERVICE FACTOR)

COUPLING TORQUE DATA
 MAXIMUM CONTINUOUS = 246,400 in.-lbs.
 PEAK OVERLOAD = 492,800 in.-lbs.
 CALCULATED SERVICE FACTOR = 5.52

CAUTION NOTE
 FLEX JOINT LOCKNUTS (ITEM 8, DWG. 16509) HAVE BEEN FACTORY TIGHTENED AND ARE NOT TO BE DISTURB WHEN ASSEMBLING OR DISASSEMBLING ON EQUIPMENT.

- NOTES
- A) COUPLING DYNAMICALLY BALANCED PER SPEC. NO. 71625.
 (REF. COMPONENT BALANCE (4W/N) AND ASSEMBLY CHECK BALANCE (40W/N))
 B) SPARE FLG. HEX HD. CAPSCREWS WEIGH BALANCED TO THE SAME BASE WEIGHT VALUES AS THOSE INSTALLED IN COUPLING.
 - COUPLING FURNISHED WITH 316 STAINLESS STEEL BUSHED DISC PACKS.
 - COUPLING HUBS, ADAPTERS, CENTER MEMBER AND HARDWARE FURNISHED ZINC PLATED.
 - CERTIFICATE OF CONFORMANCE REQUIRED.

KEYWAY:
 0.8750/0.8780 [22,225/22,301] WIDE x
 3.889/3.904 [98,78/99,16] DEEP FROM
 OPPOSITE SIDE OF BORE

KEYWAY:
 1.0000/1.0030 [25,400/25,476] WIDE x
 4.946/4.961 [125,63/126,01] DEEP FROM
 OPPOSITE SIDE OF BORE

REF. ONLY:
 SHAFT = $\phi 3.5041/3.5036$ [89,000/88,987]
 RESULTING FIT = 0.0030/0.0005 [0,076/0,013]

REF. ONLY:
 SHAFT = $\phi 4.5005/4.4995$ [114,313/114,287]
 RESULTING FIT = 0.0040/0.0010 [0,102/0,025]

(2) 5/8-11 UNC-2B
 PULLER HOLES
 180° APART ON A
 $\phi 6.1875$ BOLT CIRCLE

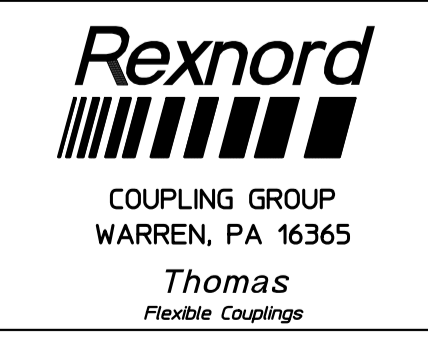
HIGH SPEED COUPLING

ITEM NO.	DESCRIPTION	QTY.	DWG. NO.	COMMENTS
9	FLG. HEX HD. CAPSCREWS	32	65676-03	
8	LOCKNUTS	16	16509	SEE CAUTION NOTE
7	BOLTS	16	17795	
6	WASHERS	16	17789-09	
5	BUSHED DISC PACKS	2	65686	
4	CENTER MEMBER	1	65736-06	
3	ADAPTERS	2	65726	
2	HUB (DRIVEN)	1	71623	
1	HUB (DRIVER)	1	71622	

PARTS LIST

GEOTHERMAL DEVELOPMENT ASSOCIATES
 EBURRU 2.5 MW GEOTHERMAL POWER PROJECT, KENYA

CAD GENERATED DRAWING
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INCH mm OR [mm]	DR. MCH	2-1-10	SECTIONAL ASSEMBLY SPECIAL 375 SERIES 71-8 COUPLING	DRAWING NO.	71621
	DSGN.			PROPOSAL NO.	
	CHK.			ORDER NO.	05985T001
	SCALE	0.75 : 1			

71621