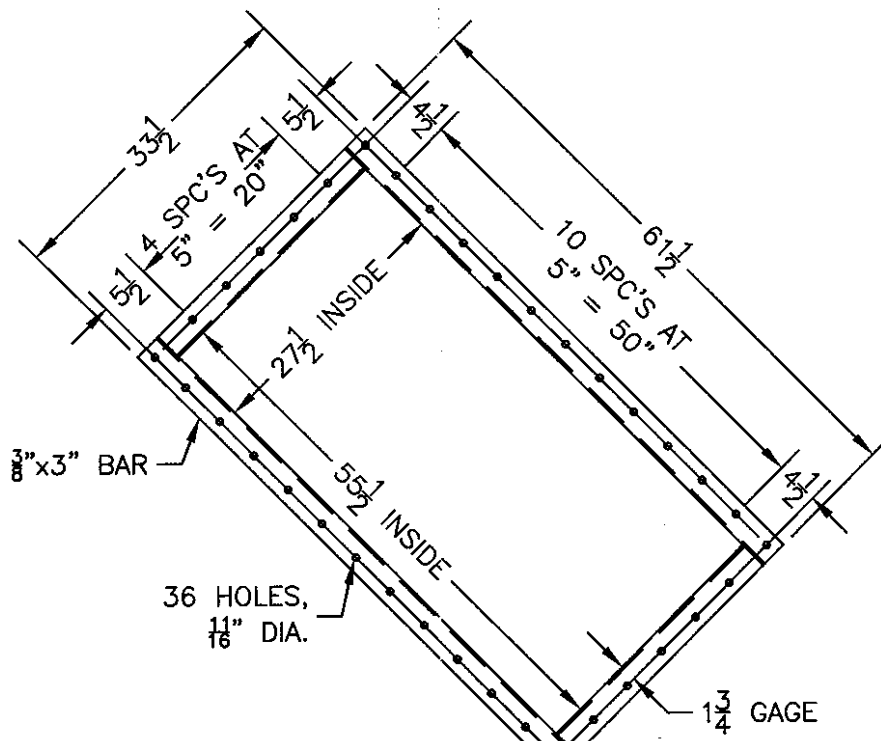
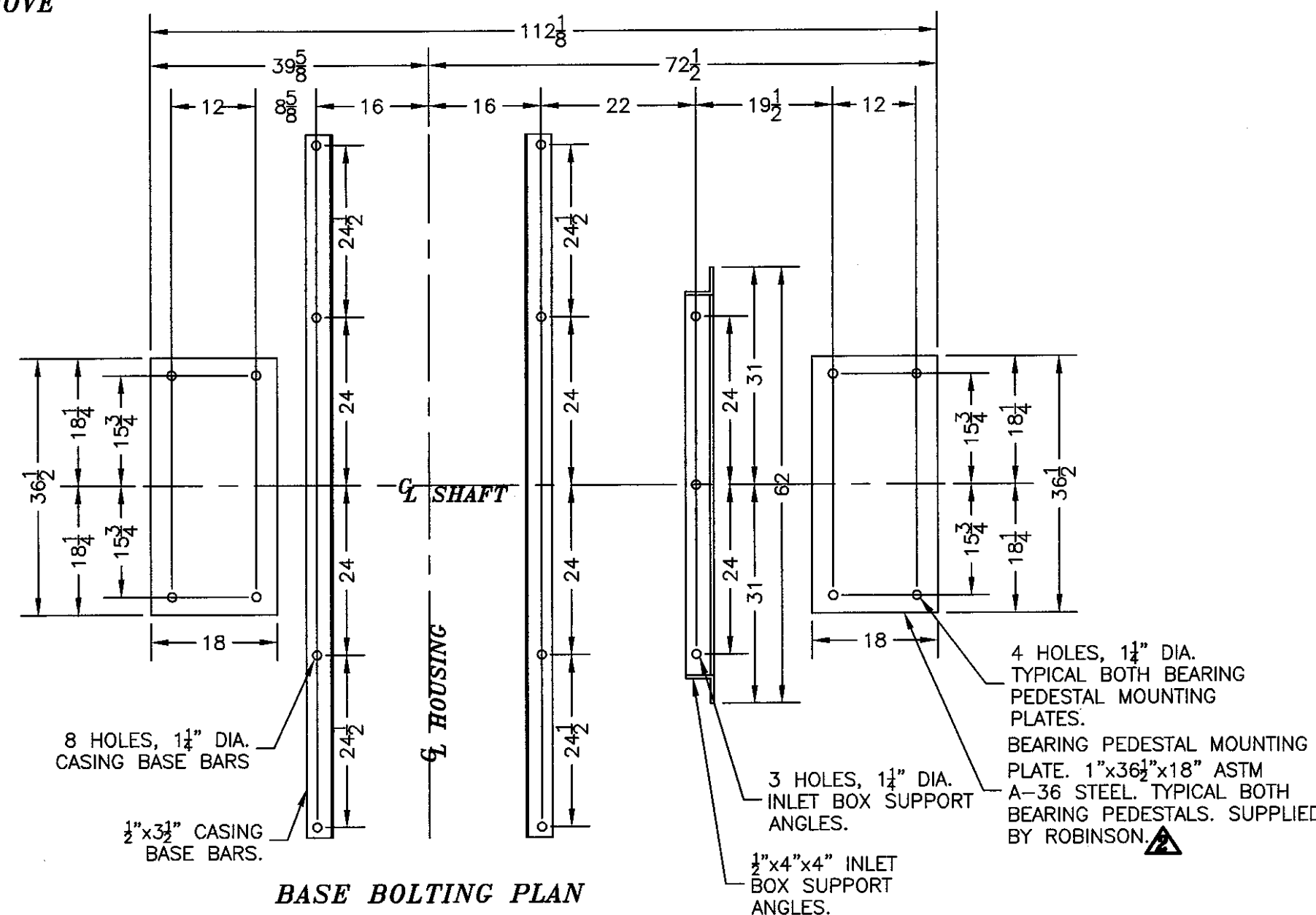


*DETAIL "B"*

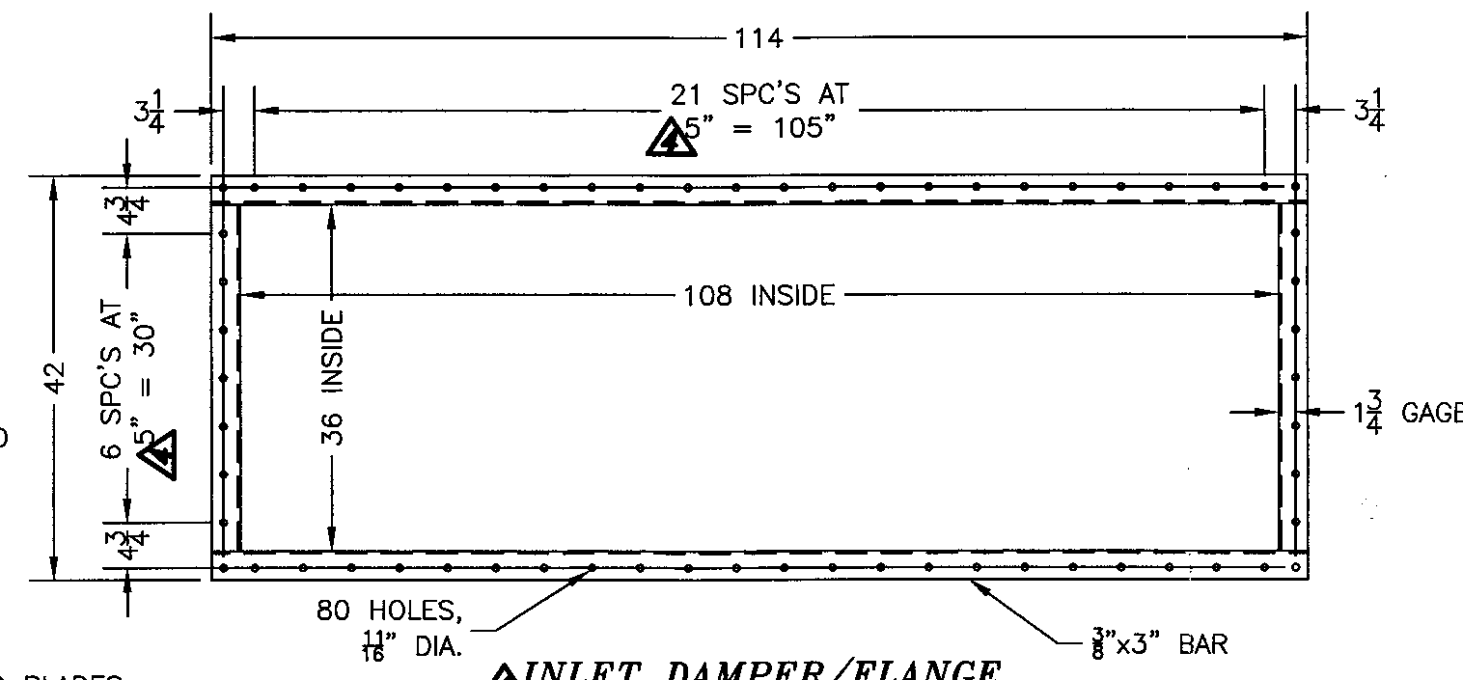
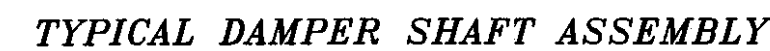
NOTE: FIELD ADJUSTMENT  
MAY BE NECESSARY TO  
OBTAIN CLEARANCES LISTED ABOVE



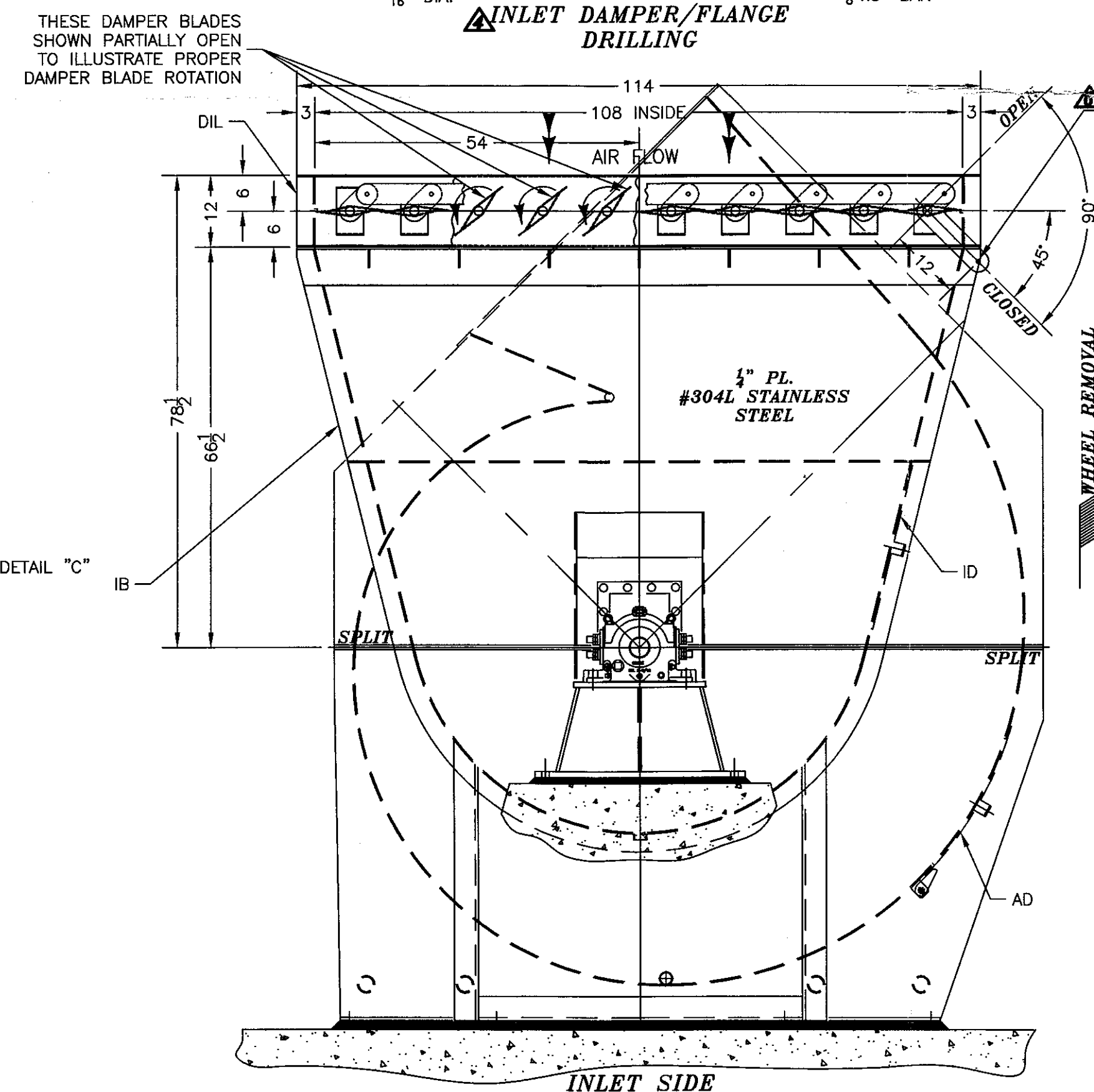
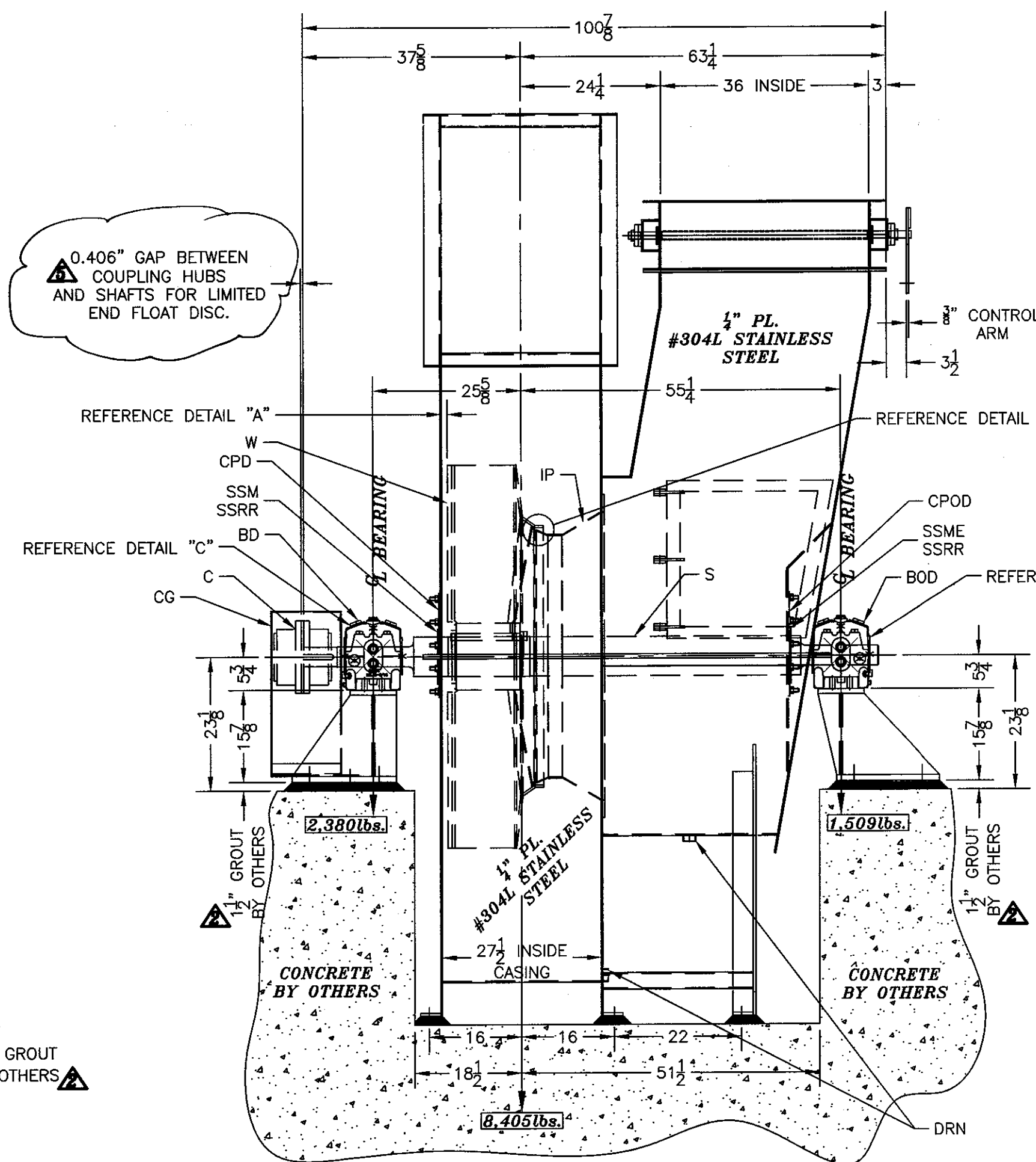
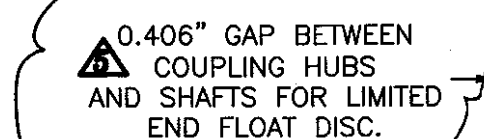
### OUTLET FLANGE DRILLING



**DETAIL "C"**  
**TYPICAL BEARING DETAIL**



### INLET DAMPER/FLANGE DRILLING



*INLET SIDE*

MATERIAL LIST		
ITEM	QTY	DESCRIPTION
AD	1	ACCESS DOOR -24"sq. BOLTED & HINGED CONSTRUCTION, APPROX. WT. : 96lbs.
BD	1	(FIXED) BEARING, DRIVE SIDE - DODGE, "RTL", SLEEVEOIL, 3-7/16" DIA., COMPLETE WITH THRUST PLATE AND THRUST PLATE KIT, DRILLED 1/2" NPT FOR THERMOCOUPLE, STATIC OIL LUBRICATED, REF. NOTE #7 FOR RELUBRICATION SCHEDULE
BOD	1	(FLOAT) BEARING, DRIVE SIDE - DODGE, "RTL", SLEEVEOIL, 3-7/16" DIA., BEARING LINER TO BE UNDER CUT 50%, DRILLED 1/2" NPT FOR THERMOCOUPLE, STATIC OIL LUBRICATED, REF. NOTE #7 FOR RELUBRICATION SCHEDULE
C	1	COUPLING - FALK #1040G20 (GEAR) WITH LIMITED END FLOAT KIT: FAN HALF BORE 3 3/325" + .0010/- .0000 KEYWAY 7/8" x 7/16" MOTOR HALF BORE 4 2465" + .0015/- .0000 KEYWAY 1" x 1/2"
CG	1	COUPLING GUARD - ASTM A36/A570 STEEL MATERIAL
CPD	1	COVER PLATE - DRIVE SIDE
CPOD	1	COVER PLATE - OPPOSITE DRIVE SIDE
DIL	1	DAMPER, INLET LOUVER DESIGN - #304L STAINLESS STEEL MATERIAL, APPROX. WT: 1050lbs.
DISM	10	DAMPER, INLET SHAFT SEAL - 1/4" THK, NEOPRENE
DP1B	10	DAMPER, PRIMARY INLET BEARING - DODGE, VSC SET SCREW BALL BEARING, PART #123615, 1-1/2" DIA., GREASE LUBRICATED, REF. NOTE #X FOR LUBRICATION SCHEDULE
DRN	2	DRAIN - 1-1/2" #304 STAINLESS STEEL PIPE COUPLING
E	1	EVASE - SUPPLIED BY OTHERS
IB	1	INLET BOX - #304L STAINLESS STEEL MATERIAL
ID	1	INSPECTION DOOR - 24"sq. BOLTED & HINGED CONSTRUCTION, APPROX. WT.: 96 lbs.
IP	1	INLET PIECE - #304L STAINLESS STEEL MATERIAL
ISIL	1	INLET SILENCER - DELETED FROM SCOPE OF SUPPLY
S	1	SHAFT - #316 STAINLESS STEEL MATERIAL
SSM	1	SHAFT SEAL - 1/8"THK. GARLOCK #2900 MATERIAL
SSME	1	SHAFT SEAL, ELLIPTICAL - 1/8"THK. GARLOCK #2900 MATERIAL
SSRR	1	SHAFT SEAL RETAINING RING - #304 STAINLESS STEEL MATERIAL
TDB	2	TEMP. DETECTOR BLOCK - T-TEC, #1060-39
TDF	2	TEMP. DETECTOR FITTING - T-TEC #1060-33
TDH	2	TEMP. DETECTOR HEAD - T-TEC, #1060-34
TDP	2	TEMP. DETECTOR - T-TEC, #1060-A-12-S-A PLATINUM 100 OHM SINGLE 3-WIRE RTD.
VD	2	VIBRATION DETECTOR - VITEC, MODEL #438 c/w ADJUSTABLE ALARM & SHUT DOWN RELAYS, 4-20 mA OUTPUT FOR REMOTE INDICATION. (REMOTE INDICATOR BY
W	1	WHEEL - A-240 ALLOY 255

1. FAN CASING, INLET PIECE, INLET BOX, TO BE CONSTRUCTED ENTIRELY FROM #304L STAINLESS STEEL. BEARING PEDESTALS AND COUPLING GUARD TO BE FABRICATED FROM ASTM #A-36 MATERIAL. WHEEL AND SHAFT MATERIALS AS NOTED ABOVE.
2. ALL MILD STEEL FAN COMPONENTS TO RECEIVE ONE COAT OF COLUMBIA PAINTS HIGH SOLIDS PRIMER. FINAL COLOR: RED
3. GASKET MATERIAL - ZETEX BOLT HOLE TAPE.
4. ~~FAN SPLIT FOR WHEEL & SHAFT REMOVAL.~~
5. WHEEL & SHAFT WEIGHT TO BE APPROX. 2,128lbs.
6. TOTAL UNIT WEIGHT AS SHOWN TO BE APPROX: 12,294lbs.
7. FAN BEARINGS ITEMS BD AND BOD ARE STATIC OIL LUBRICATED WITH SAE 20 WEIGHT NON-DETERGENT OIL (SUS 327.0 AT 100°F AND 53.0 AT 210°F). WATER COOL BEARINGS USING POTABLE WATER, ITEM BD AND BOD REQUIRE 1.75 gal/min. PER BEARING AT A MAXIMUM INLET TEMP. OF 90°F FOR COOLING. REFERENCE DODGE BEARING INSTRUCTIONS #499970.
8. ROBINSON RECOMMENDS A MINIMUM CONCRETE MAT UNDER FAN TO BE APPROX 61,470lbs. THIS DOES NOT INCLUDE THE CONCRETE REQUIRED ABOVE GRADE FOR BEARING PEDESTALS, NOR DOES IT INCLUDE CONCRETE REQUIRED UNDER MOTOR.
9. EXPANSION JOINTS IN ALL DUCTWORK & PIPING TO FROM FAN ARE REQUIRED. THESE JOINTS ARE TO BE IMMEDIATELY ADJACENT TO THE FAN. CUSTOMERS DUCTWORK MUST BE STRUCTURALLY ANCHORED WITHIN APPROX 24" OF EXPANSION JOINT.
10. BEARING TEMPERATURE DETECTORS SHOWN ABOVE ARE PICKUPS ONLY. MONITORS TO BE SUPPLIED & MOUNTED BY OTHERS.
11. VIBRATION DETECTORS SHOWN ABOVE ARE PICKUPS ONLY. MONITORS TO BE SUPPLIED & MOUNTED BY OTHERS.
12. DAMPER BEARINGS, ITEMS DP1B LISTED ABOVE ARE TO BE RELUBRICATED ON A 4 WEEK CYCLE WITH MOBILITH SHC-200 GREASE OR EQUAL.
13. REQUIRED DAMPER TORQUE: 567ft. lbs.

FORCED DRAFT FAN  
PROJECT NO.: 1440  
EQUIPMENT TAG NO.: 1440-14020  
SPECIFICATION NO.: 14020

Received from  
Robinson Vendor Rep.  
5/04/06

**WHEEL & SHAFT  $WR^2 = 3,771 \text{ lbs. ft}^2$**









**ROBINSON**  
INDUSTRIES, INC.  
ZELIENOPLE, PENNSYLVANIA 16063

TYPE	66"x10-1/4"RB1222.ARR. #3,CW • 45deg DISCH,IRP • 0deg,CL. #4,SWSI.
FOR	ENERGY PRODUCTS OF IRAN

FOR ENERGI PRODUCTS OF IDAHO  
COEUR D'ALENE, IDAHO

	BY	DATE	<b>ALL DIMENSIONS ARE IN INCHES</b>
DRAWN	BK	01-19-05	

CHECKED	MDV	04-14-05	DA-66RB1222-106	6 REV

	REV. DAMPER CONTROL ARM HOLE PER CUST.	09-29-05	BK	
	REV. COUPLING GAP AND "C"	08-19-05	BK	
	REV. INLET FLANGE DRILLING	04-25-05	BK	
	ADDED MOTOR BORE PER CUSTOMER	03-14-05	BK	MDV 04-14-05
	GROUT, DIM'S, NOTE #2, PAINT & SP PER CUST. REQ.	03-03-05	BK	MDV 04-14-05
	REMOVED SIL PER CUST., BRG UNDERCUT	03-02-05	BK	MDV 04-14-05
NO.	REVISION	DATE	BY	CHECKED BY
CAD GENERATED DRAWING, DO NOT CHANGE BY HAND				

COMPONENT	SUFFIX	FOR
WHEEL	1	
CASING	2	
PEDESTAL	3	
DAMPER	4	
HUB	5	
SHAFT	6	

**ROBINSON IND. INC.  
INTERNAL USE ONLY**

THIS DRAWING IS THE PROPERTY OF  
ROBINSON INDUSTRIES INC. AND IS  
LOANED UPON CONDITION THAT IT IS  
NOT TO BE REPRODUCED OR COPIED  
IN WHOLE OR PART FOR FURNISHING  
INFORMATION TO OTHERS FOR ANY  
PURPOSE DETRIMENTAL TO OUR  
INTERESTS AND WILL BE RETURNED  
UPON REQUEST.

BEARINGS ARE DESIGNED FOR A  
MAXIMUM AMBIENT TEMPERATURE  
OF 100°F.

DO NOT USE SUBSTITUTE LUBRICANTS OR  
OVER LUBRICATE. WARRANTY WILL BE  
VOIDED UNLESS ROBINSON LUBRICATION  
INSTRUCTIONS ARE FOLLOWED.

FAN UNIT WILL BE SHIPPED ☐ ASSEMBLED ☒ DISASSEMBLED

FINAL ALIGNMENT OF BEARING, COUPLING, V-BELTS, WHEEL & SHAFT ASSY. MUST BE CHECKED BEFORE OPERATION OF THIS EQUIPMENT. NOTE ALL ITEMS ARE TO BE CHECKED FOR PROPER SETTINGS PER INSTRUCTION MANUAL AND CERTIFIED DRAWING.

UNITS PER ORDER <u>ONE</u>	
CERTIFIED FOR	
YOUR ORDER	<u>25589</u>
OUR JOB NO.	<u>205-103</u>
BY <u>BK</u>	DATE <u>01-19-05</u>
TOLERANCES UNLESS OTHERWISE MARKET FRACTIONS $\pm 1/32$ , ANGLES $\pm 1^\circ$ , DEC. $\pm .005$	
FAB TOLERANCE ON OVERALL DIMENSIONS: UNDER 5" DIA. FAN $\pm 1/4$ " 5" DIA. FAN & ABOVE $\pm 3/16$ " / $\pm 1/8$ "	

MAXIMUM FAN DESIGN TEMPERATURE 210°F @ 1,780 RPM						
1,780	123,000	57.00"	0.0587	160°F	1,130ft.	1,483
1,780	113,000	50.00"	0.0588	160°F	1,130ft.	1,335
RPM	CFM	SP	DENSITY	TEMP	ELEV	BHP

TYPE	66"x10-1/4"RB1222,ARR. \$3.37 @ 45dag DISCH,IRP @ 9dag,CL. \$4,SWSL				
FOR	ENERGY PRODUCTS OF IDAHO				
	COEUR D'ALENE, IDAHO				
	BY	DATE	ALL DIMENSIONS ARE IN INCHES		
DRAWN	BK	01-19-05	DA-66RB1222-106		
CHECKED	MDV	04-14-05			
			6 REV		