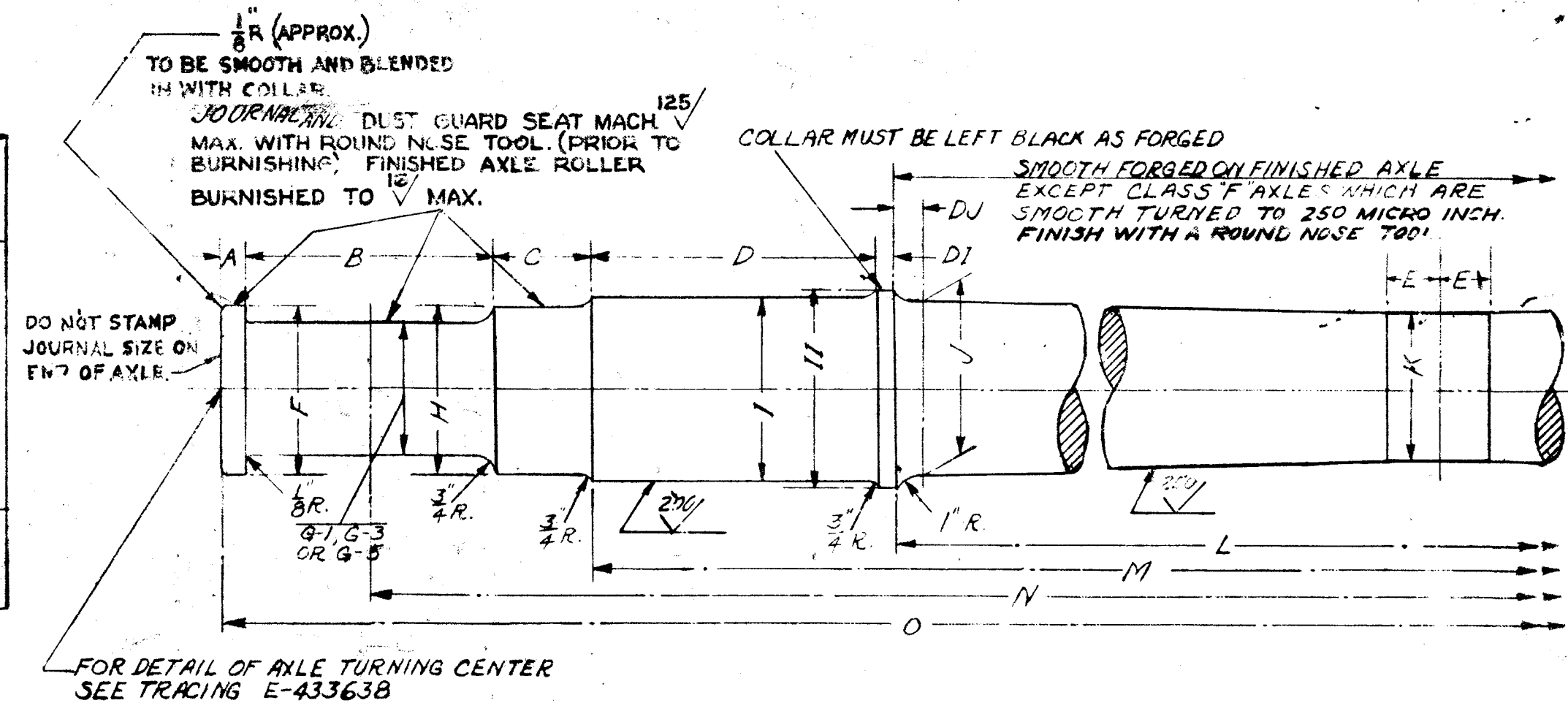


P.R.R. NEW CLASS	P.R.R. OLD CLASS	A.A.R. CLASS	SIZE OF JOURNAL	DIMENSIONS FOR ROUGH TURNING																REMARKS	MATERIAL		
				A	B	C	D	DI	DJ	E	F	G	H	I	II	J	K	L	M			N	O
A-	Nº2D	A	3 ³ / ₄ x 7	11/16	6 ⁷ / ₈	2 ³ / ₄	8 ³ / ₈	1 ¹ / ₂	23/32	1 ¹ / ₂	4 ⁷ / ₈	3 ⁷ / ₈	4 ⁷ / ₈	5 ³ / ₈	5 ¹ / ₂	4 ⁷ / ₈	4 ¹ / ₄	3'-9 ¹ / ₄ "	5'-2 ⁵ / ₈ "	6'-3"	6'-11 ⁵ / ₈ "	17-101-57 AS TURNED	
B-	Nº4B	B	4 ¹ / ₄ x 8	11/16	7 ⁷ / ₈	2 ¹ / ₄	8 ³ / ₈	1 ¹ / ₂	23/32	1 ¹ / ₂	5 ³ / ₈	4 ³ / ₈	5 ³ / ₈	6	6 ¹ / ₈	5 ⁷ / ₈	4 ³ / ₄	3'-9 ¹ / ₄ "	5'-2 ⁵ / ₈ "	6'-3"	7'-0 ³ / ₈ "		
C-	Nº6A	C	5" x 9"	13/16	8 ⁷ / ₈	2 ¹ / ₄	8 ³ / ₈	1 ¹ / ₂	23/32	1 ¹ / ₂	6 ¹ / ₄	5 ⁵ / ₈	6 ¹ / ₄	6 ³ / ₄	6 ⁷ / ₈	6 ³ / ₈	5 ³ / ₈	3'-9 ¹ / ₄ "	5'-2 ⁵ / ₈ "	6'-4"	7'-2 ¹ / ₈ "		
D-	Nº7	D	5 ¹ / ₂ x 10	13/16	9 ⁷ / ₈	2 ¹ / ₄	8 ³ / ₈	1 ¹ / ₂	23/32	3	6 ³ / ₄	5 ⁵ / ₈	6 ³ / ₄	7 ¹ / ₄	7 ³ / ₈	6 ³ / ₄	5 ⁷ / ₈	3'-9 ¹ / ₄ "	5'-2 ⁵ / ₈ "	6'-5"	7'-4 ³ / ₈ "		
E-	Nº8	E	6" x 11"	1"	10 ⁷ / ₈	2 ¹ / ₄	8 ³ / ₈	1 ³ / ₄	3/4	3	7 ³ / ₈	6 ⁵ / ₈	7 ³ / ₈	7 ¹ / ₂	8	7 ¹ / ₆	6 ⁷ / ₈	3'-5 ³ / ₄ "	5'-2 ⁵ / ₈ "	6'-6"	7'-6 ¹ / ₈ "		
F	Nº9	F	6 ¹ / ₂ x 12	1"	11 ⁷ / ₈	2 ¹ / ₄	8 ³ / ₈	1 ³ / ₄	3/4	3	7 ³ / ₈	6 ⁵ / ₈	7 ³ / ₈	8 ³ / ₄	8 ¹ / ₂	7 ¹ / ₆	7 ³ / ₈	3'-5 ³ / ₄ "	5'-2 ⁵ / ₈ "	6'-7"	7'-8 ¹ / ₈ "		
				1 ¹ / ₈	11 ³ / ₄	2 ¹ / ₄	8 ¹ / ₆	1 ³ / ₄	3/4	3	8	6 ³ / ₄	8	8 ¹ / ₂	8 ³ / ₄	8 ¹ / ₆	7 ⁵ / ₈	3'-5 ³ / ₄ "	5'-2 ⁷ / ₈ "	6'-7"	7'-9 ¹ / ₈ "	HEAT TREATED BY P.R.R.	AND TEMPERED
PERMISSIBLE VARIATIONS NEW AXLES ONLY																							
PLUS				1/8"	0"	1/8"	1/16"	1/4"	1/4"	1/8"	1/8"	1/8"	1/8"	0"	1/4"	1/8"	1/8"	0"	1/4"	0"	0"		
MINUS				0"	1/4"	0"	1/16"	0"	0"	0"	0"	0"	0"	0"	1/8"	0"	0"	0"	**	0"	0"	1/8"	



DIMENSION "O" FOR CLASS F AXLES "HEAT TREATED BY P.R.R." CHANGED FROM 7-9 1/8" TO 7-9 1/8".
1-31-63

SMOOTH SURFACE ROUGHNESS CHANGED TO CONFORM WITH LATEST A.A.R. STANDARD 9-6-60 (F-1-63)

FINISH AT JOURNAL CHANGED FROM G3 TO 16.
2-11-65 (F-4-65)

DIMENSION "K" FOR CLASS F AXLES INCREASED 1/8" FOR ROUGH & FINISH TURNING.
1-12-61, R.W.U. (F-7-61)

** NOTE:
1/4" ON SMOOTH TURNED AXLES
3" ON SMOOTH FORGED AXLES

*** NOTE:
TOLERANCE DIMENSIONS SHOWN FOR "DI" APPLY ONLY TO AXLES SMOOTH TURNED BETWEEN COLLARS FOR SMOOTH FORGED AXLES TOLERANCES AS SPECIFIED FOR "L" WILL GOVERN.

TOLERANCE FOR DIMENSION "O" (OVER ALL LENGTH OF AXLE) HAS BEEN CHANGED FROM PLUS 1/8" MINUS 0" TO PLUS 0" MINUS 1/8" IN ORDER TO BRING TO SPECIFICATION GOVERNING THE INTERPRETATION OF DEFECTS CONSIDERED INJURIOUS IN AXLES HAS BEEN ADDED.

FOR MARKING OF AXLES SEE 0-46-711 AND 0-46-713

NOTE:
THE INTERPRETATION OF DEFECTS CONSIDERED INJURIOUS IN AXLES AS GIVEN IN SPECIFICATION M-101-57 APPENDIX "A" OF THE A.A.R. MANUAL OF STANDARD AND RECOMMENDED PRACTICE SHALL GOVERN FOR ALL NEW AND RE-INDURIZED AXLES.

DIMENSION "A" FOR CLASS E AND F AXLES CHANGED FROM 15/16" TO 1" IN ORDER TO PROVIDE FOR SUFFICIENT METAL TO FINISH AXLE WITHIN PRESCRIBED LIMITS.
8-6-58 (F-34-A-58)

DIMENSION "I" FOR CLASS A, B AND C AXLES CHANGED FROM 5 1/4", 5 7/8" AND 6 7/8" TO 5 3/8", 6" AND 6 3/4" RESPECTIVELY IN ORDER TO PROVIDE FOR SUFFICIENT METAL TO FINISH AXLE WITHIN PRESCRIBED LIMITS.
7-1-58 (F-3-58)

TOLERANCES FOR BOTH ROUGH TURNED AND FINISHED AXLES HAVE BEEN ADDED.
4-24-58 (F-2-58)

MACHINING AND FINISHING OF AXLES

DIMENSION "T" FOR CLASS A, B AND C AXLES CHANGED FROM 1 3/4", 1 7/8" AND 2 1/4" TO 1 3/4", 1 7/8" AND 2 1/4" RESPECTIVELY.
1-23-57 (F-4-57)

NOTE CONCERNING MACHINING OF AXLES REVISED TO CONFORM TO GENERAL MAINTENANCE INSTRUCTIONS.
3-27-56 (F-52-A-56)

THIS TRACING SUPERSEDES TRACING D-46698 WHICH HAS BEEN MADE OBSOLETE ON ACCOUNT OF CONFORMING TO LATEST A.A.R. STANDARD DESIGN.
4-3-56

TRACING OF AXLES OF TYPE "D" HAS BEEN BLANKETTED.
7-28-61 (F-7-28-61)

ISSUED:- 5-1-1956-A (F-5-1-56)
RE:- 9-27-1956-B (F-9-27-56)

THE PENNSYLVANIA RAILROAD
FREIGHT CARS
TRUCKS
STANDARD AXLES
PHILADELPHIA APRIL 3, 1956

AS 7-VOL. PREC. OPERATION AND CHIEF MECHANICAL ENGINEER
456658
MECHANICAL ENGINEER
W. T. C. [Signature]
D. [Signature]
L. W. [Signature]

* NOTE:

NEW AXLES
ALL NEW AXLES MUST CONFORM TO THE JOURNAL SIZE LISTED UNDER G-1, WITHIN THE SPECIFIED TOLERANCES, WITH THE FOLLOWING EXCEPTION: WHERE EXTRA MACHINING IS NECESSARY TO ELIMINATE IMPERFECTIONS AS OUTLINED IN PARAGRAPH E-1 OF APPENDIX A OF SPECIFICATIONS M-101-57, DIAMETERS OF JOURNALS ON NEW AXLES MAY BE REDUCED AS MUCH AS 0.020" BELOW THE DIMENSIONS LISTED UNDER G-1.

WORN AXLES:
SUBSEQUENT MACHINING OF WORN AXLES IS TO BE ACCOMPLISHED BY REMOVING THE MINIMUM AMOUNT OF METAL NECESSARY TO PRODUCE A SATISFACTORY JOURNAL SURFACE. HOWEVER, WHEN MACHINING HAS REDUCED THE JOURNAL DIAMETERS TO WITHIN 0.015 OF THE SIZES SPECIFIED UNDER G-3 OR G-5 ADDITIONAL MATERIAL SHOULD BE REMOVED TO BRING JOURNALS TO NEAREST GAGE SIZE.