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London Underground  
MAYOR OF LONDON

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FROM THE RSE - ERM BEFORE USE

42 SEATS.

1938 TUBE STOCK.  
DRIVING MOTOR CAR.

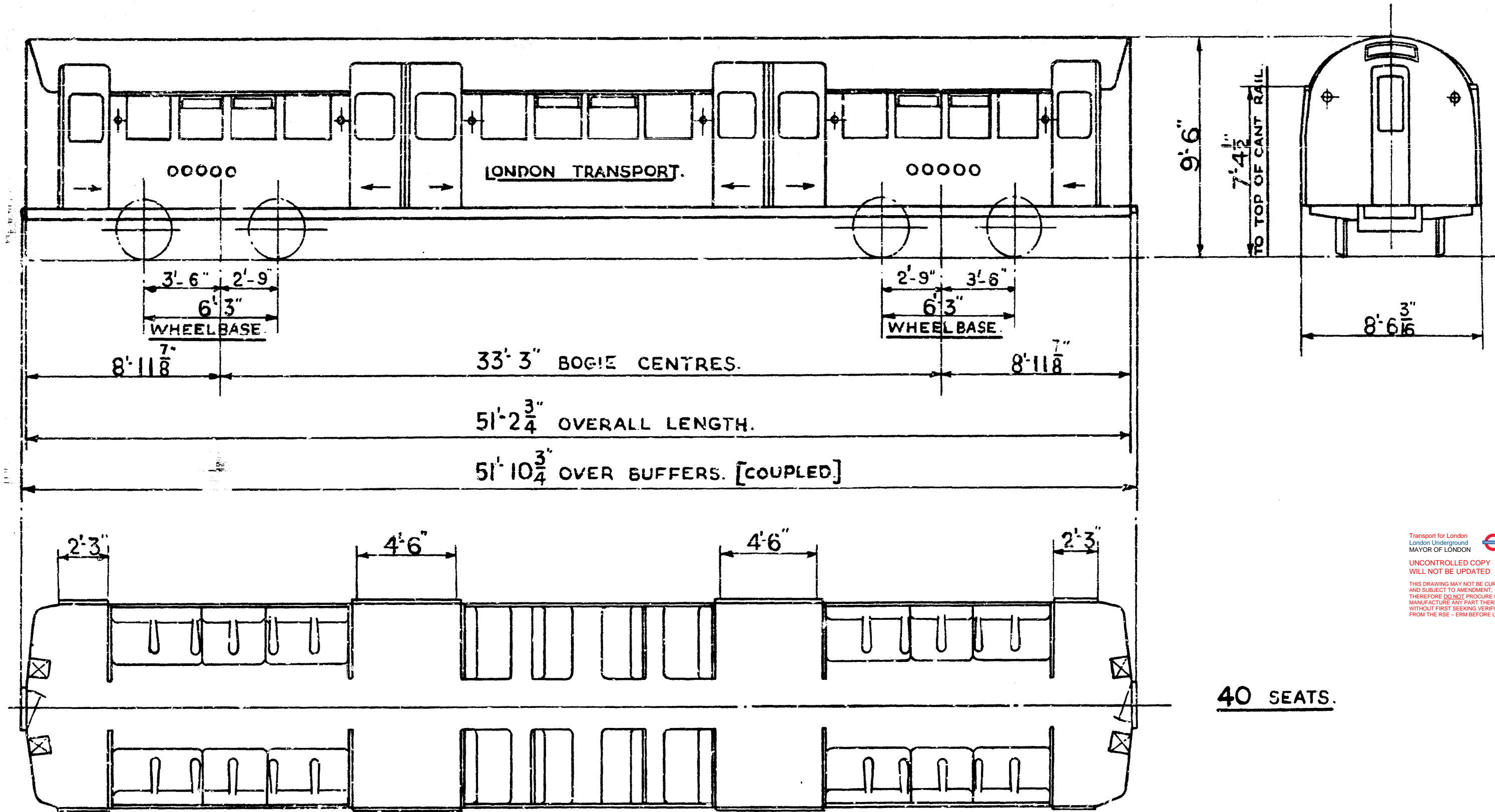
LONDON TRANSPORT EXECUTIVE.

TRACED *bar*

DRAWER NO. 31/205.

**FOILED.**  
PLEASE SEE THAT MODIFICATIONS  
ARE ENTERED ON DUPLICATE CC

DRG. NO 36038  
C.M.E'S OFFICE.  
DRG. NO 36038  
DATE. 6.1.50



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1938 TUBE STOCK.  
NON DRIVING MOTOR CAR  
& TRAILER CAR.

LONDON TRANSPORT EXECUTIVE.

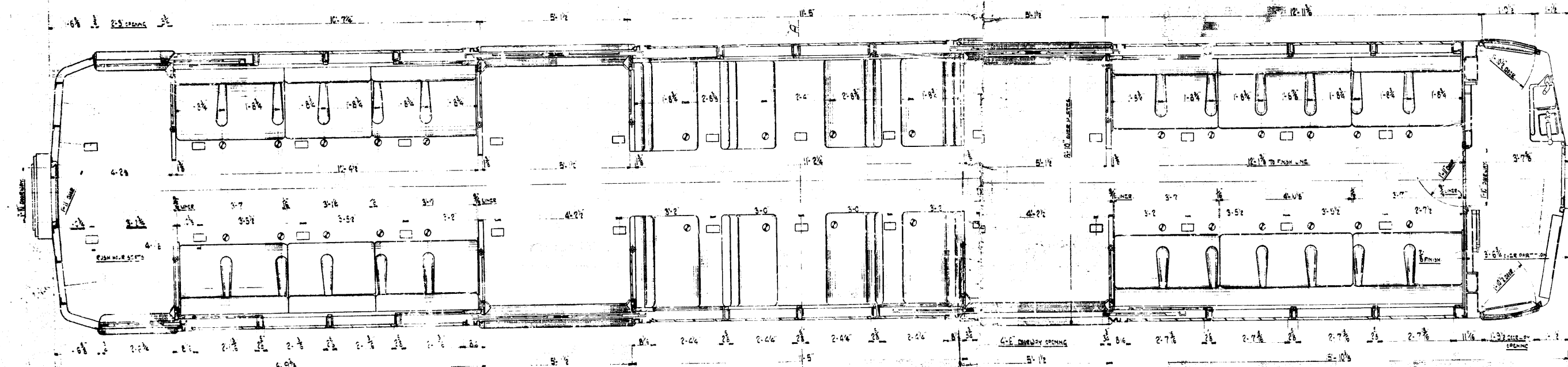
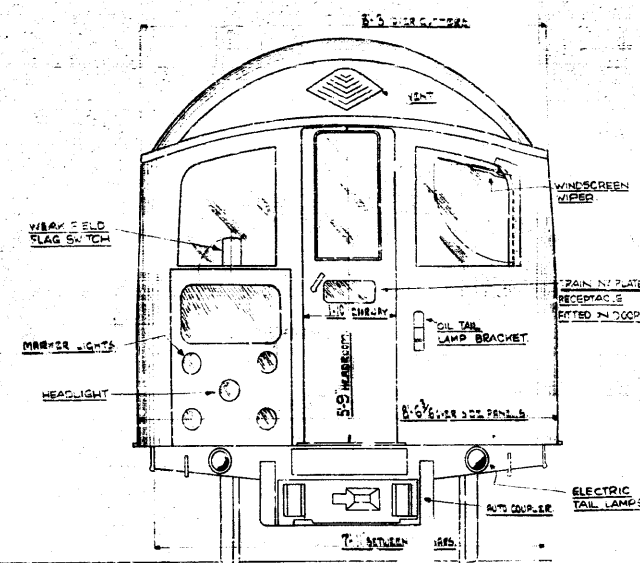
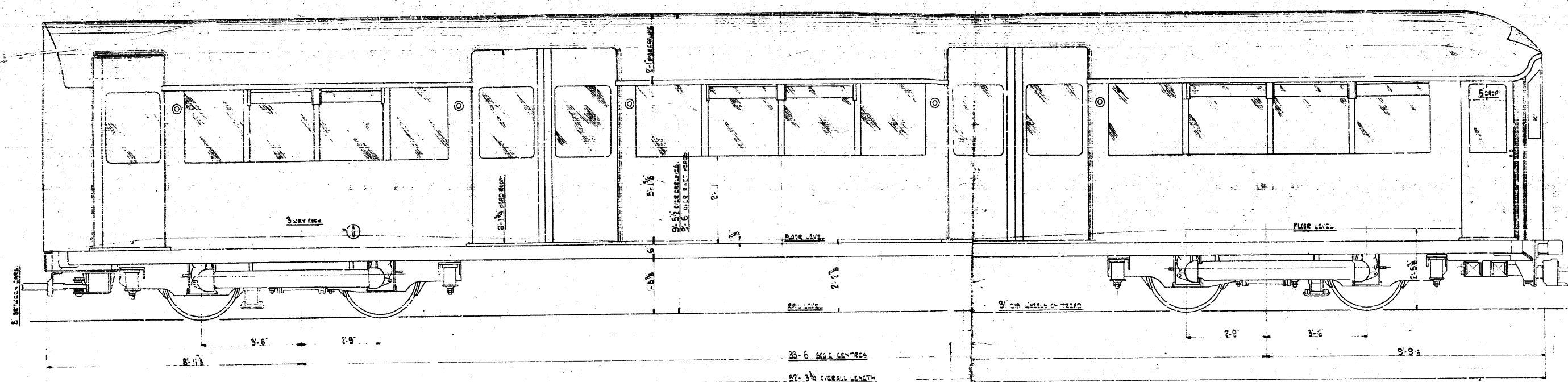
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TRACED *car*

DRAWER NO 31/205.

DRG. NO 36039  
C.M.E'S OFFICE.  
DRG. NO 36039  
DATE 6.1.50





	SEAT'S	SEAT-HOUR
DRIVING MOTOR	22	2
TRAILER	40	4
DRIVING MOTOR RE-DRIVEN	22	2
TRAILER	40	4

	T	C	Q	LOS
TOTAL WEIGHT OF CAR	27	8	2	21
DRIVING END	14	3	3	7
TRAILING	13	4	3	14

FOR WEIGHTS & COMPARATIVE DIMENSIONS  
OF ALL ROLLING STOCK,  
SEE DRG Nos. 44429 & 39100

# GENERAL ARRANGEMENT OF DRIVING MOTOR CAR 19.18 TUBE STOCK

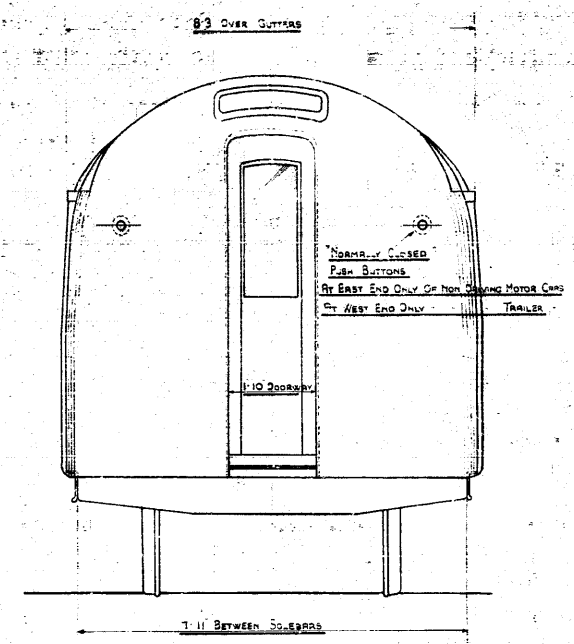
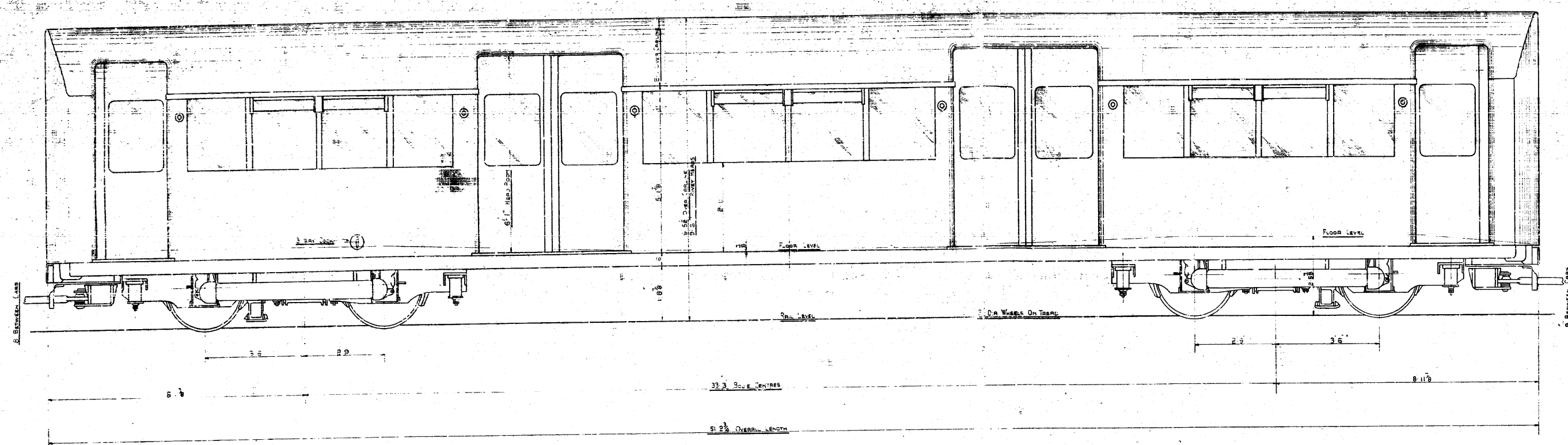
TECHNIPACTORS DRG. No. 76402

DRAWER No. 20  
OFFICE 20  
FILING ROOM 1

CLASS OF STOCK  
SCALE 1/4 INCHES TO THE FOOT

LONDON PASSENGER TRANSPORT BOARD  
CHIEF MECH. ENGINEERS OFFICE  
DRAWING No. 28523  
DATE 6-10-37

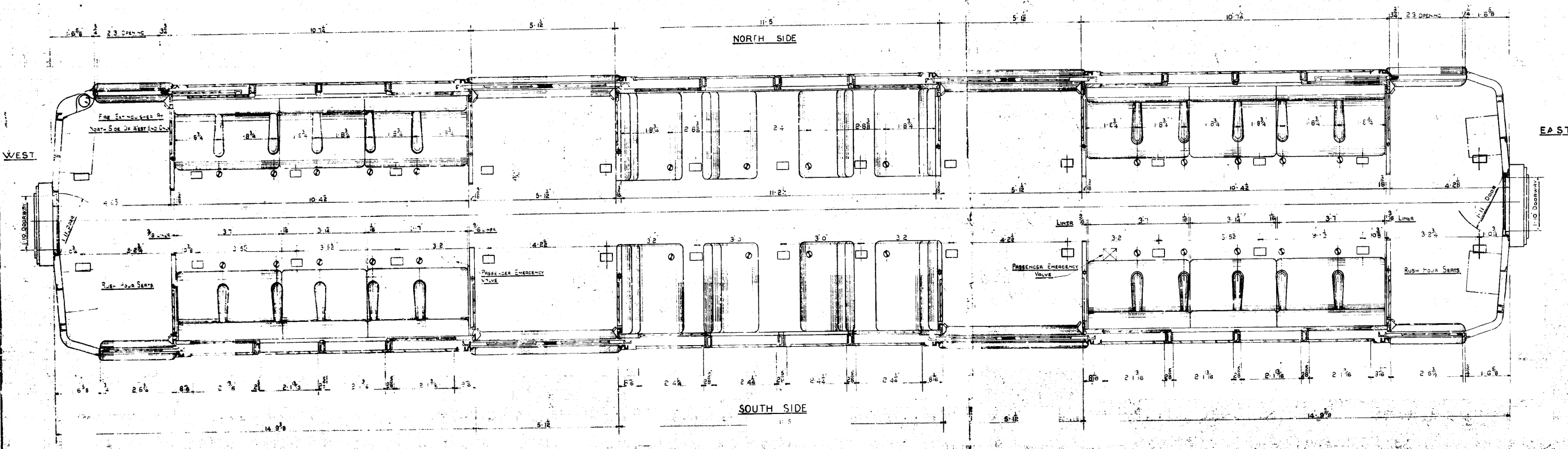




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	SEATS	RUSH HOUR	STANDING	TOTAL
Non Driving Motor	40	4	112	156
Trailer	40	4	112	156

FOR WEIGHTS & COMPARATIVE DIMENSIONS  
OF ALL ROLLING STOCK,  
SEE DRG Nos 44429 & 39100.

# GENERAL ARRANGEMENT OF NON-DRIVING MOTOR CAR 1938 TUBE STOCK

CONTRACTORS DRG No 76403

DRAWER No  
OFFICE 20 FILING ROOM 13

CLASS OF STOCK SCALE 1/4" = 1'-0" INCHES TO THE FOOT

LONDON PASSENGER TRANSPORT BOARD  
CHIEF MECH. ENGINEERS OFFICE  
DRAWING No 28534  
DATE 2-28

COILED  
PLEASE RETURN TO THE DRAWING OFFICE  
WITH THE DRAWING

20212 36X6 30





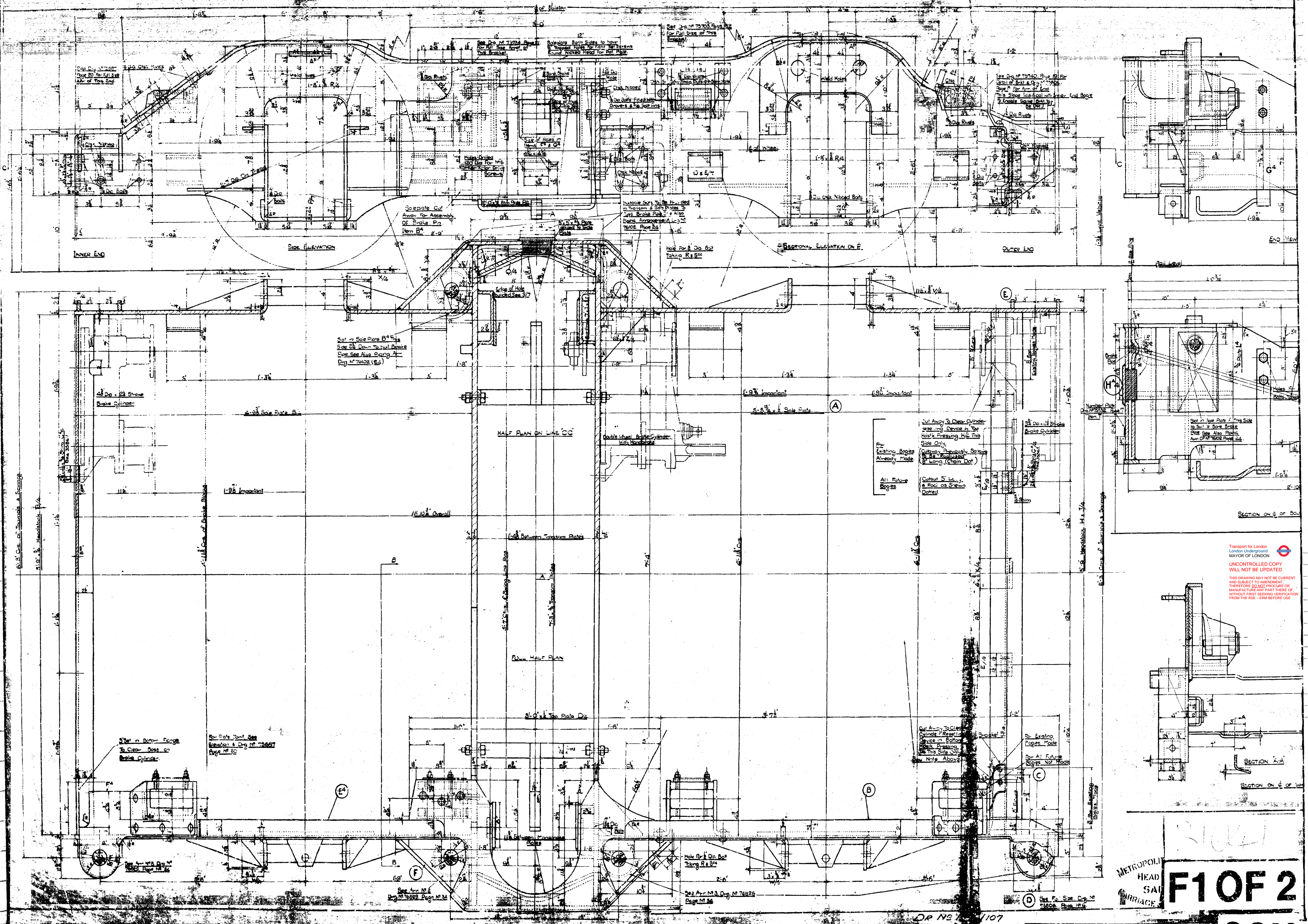












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**LONDON Underground**  
TfL  
**CITY OF LONDON**

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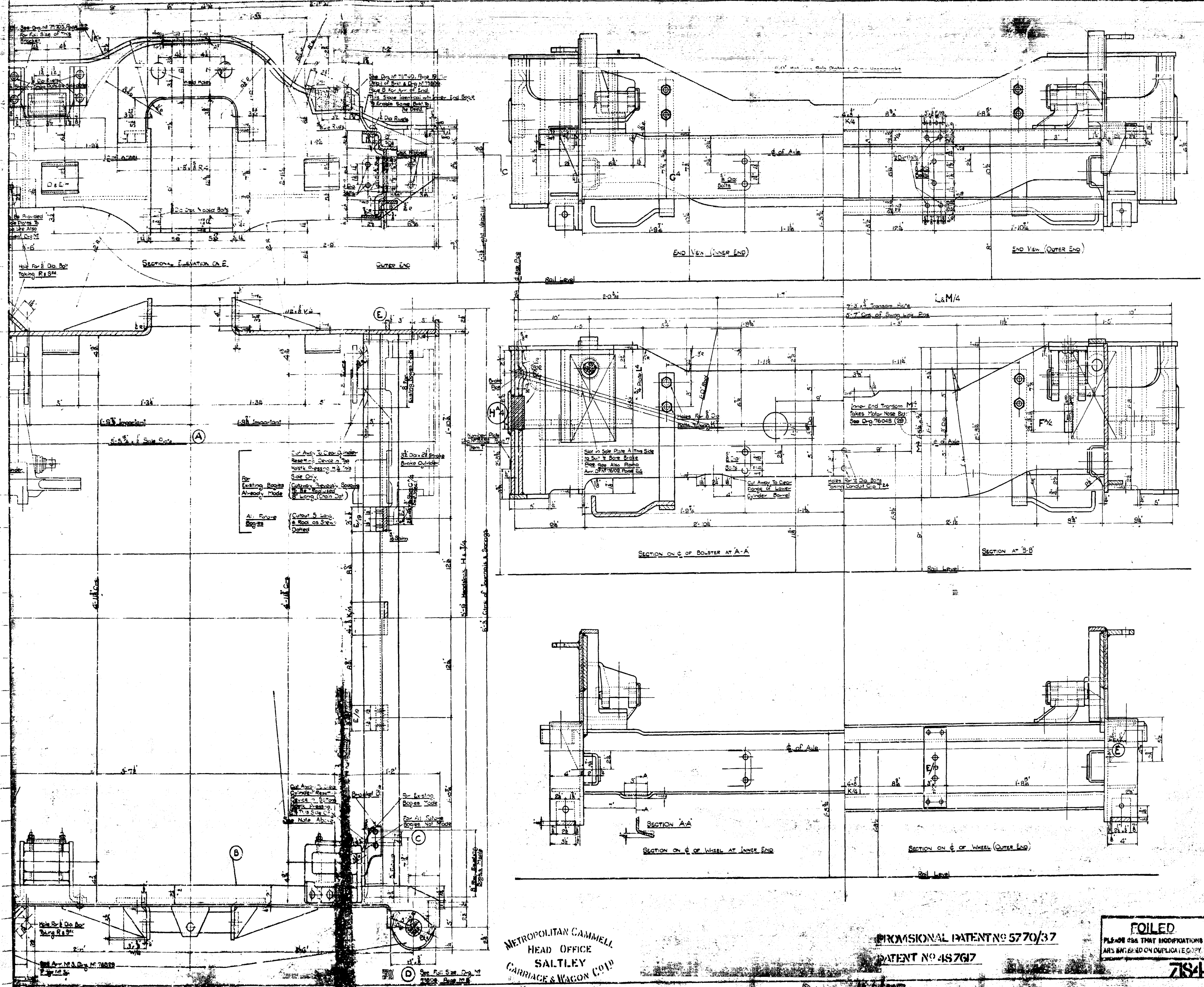
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**F1 OF 2**

# 30X



ITEM	TYPE OF TOOL	TOOL DRS. NO.	ASSET NO.	APP. NO.
1	DRILL (11-048)	5653 M	B/8117	
2	W. SLOTTED (11-048)	5836 M	D/8292	
3	W. SLOTTED (11-048)	6041 M	D/8455	



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REF.	DESCRIPTION	QTY	MATERIAL	REMARKS
A	Sole Plate	2EA	1/2 M.S.	
B	Trans. Plate	2EA	1/2 M.S.	
C	Trans. Plate	2EA	1/2 M.S.	
D	Trans. Plate	2EA	1/2 M.S.	
E	Trans. Plate	2EA	1/2 M.S.	
F	Sole Side Plate At Bolster	2EA	1/2 M.S.	

For Remainder of Frame Details, See Drg. N° 75697, Page 4

For General Arrgt. of Bogie Outer, See Drg. N° 28406  
X For Complete List of Drgs. See Drg. N° 236280

**F2 OF 2**

L P T B  
1933S TUBE STOCK  
OUTER BOGIE  
ARRGT & DETAILS OF BOGIE FRAME  
SCALE 3 INCHES TO A FOOT  
7154 DRC N° 31041

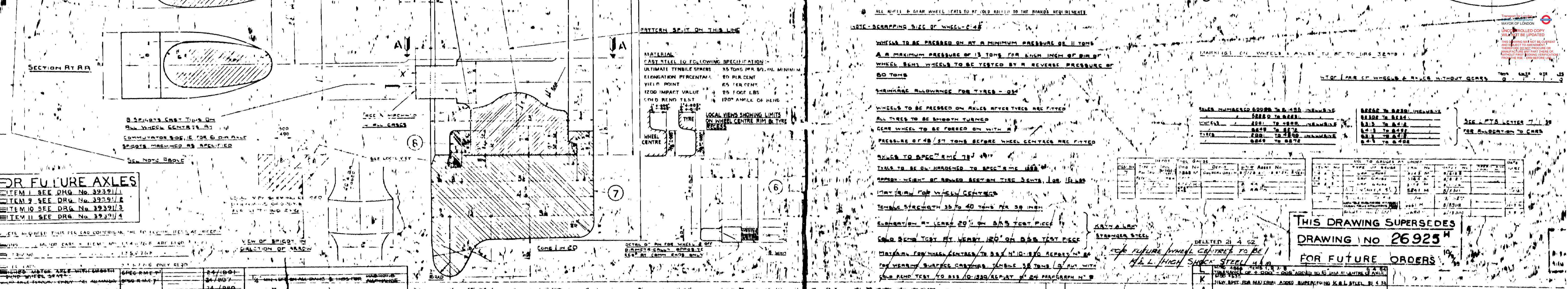
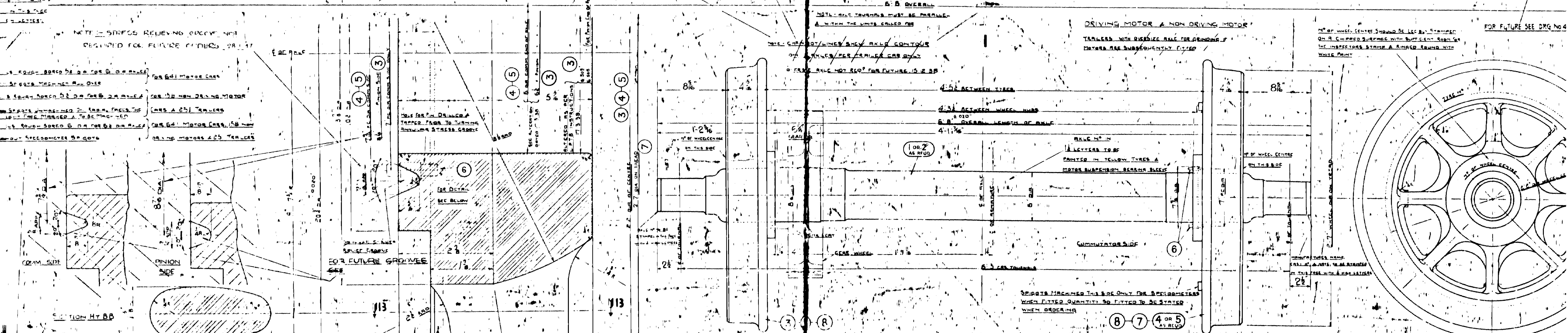
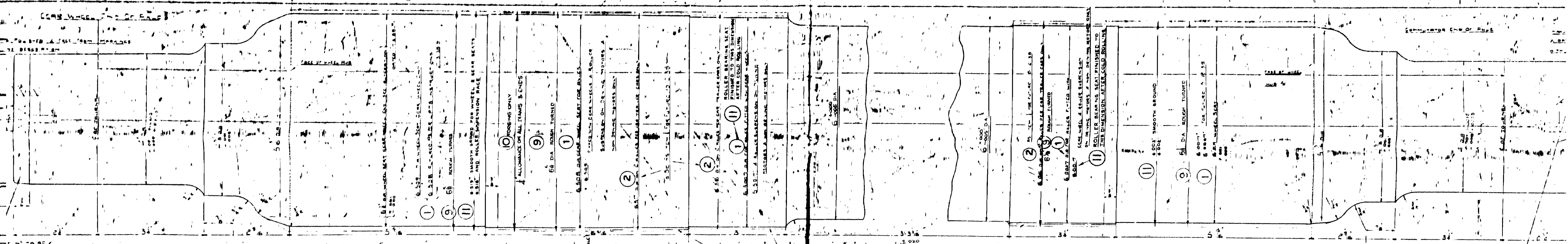
METROPOLITAN CAMMELL  
HEAD OFFICE  
SALTLEY  
CARRIAGE & WAGON CO. LD

PROVISIONAL PATENT N° 5770/37  
PATENT N° 487617

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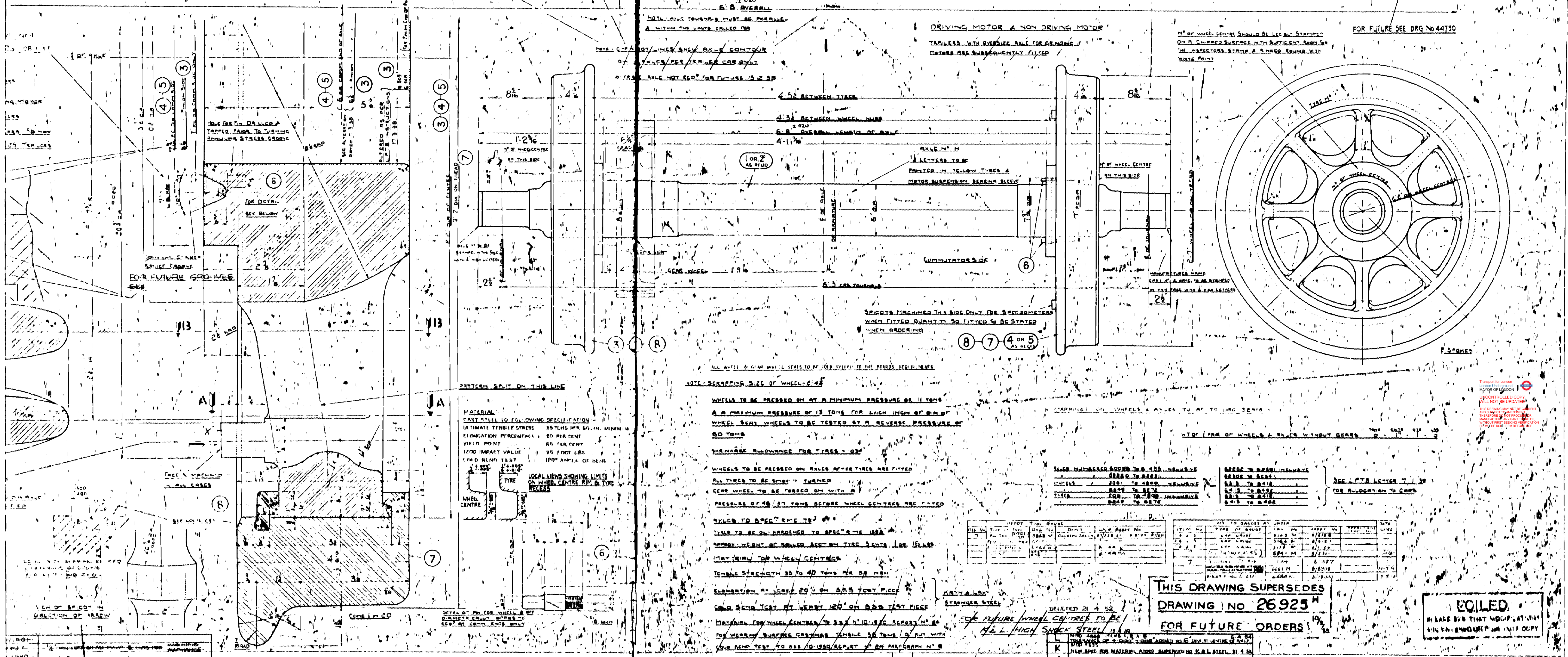
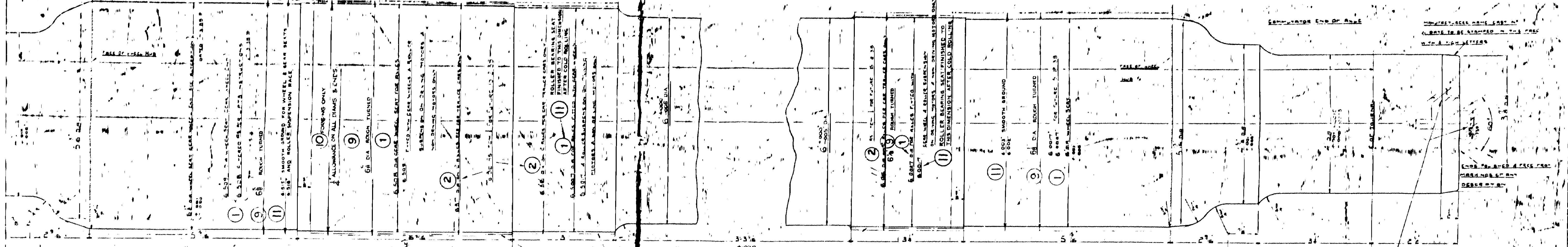


FOR FUTURE AXLES		WHEEL & AXLE (MOTOR E 12)		F1 OF 2		LONDON PASSENGER TRAN	
ITEM 1 SEE DRG No 3239/1		FOR FUTURE SEE DRG No 32430/1		DRAWING No 26925		CHIEF MECH. ENGINEER	
ITEM 2 SEE DRG No 3239/2		FOR FUTURE SEE DRG No 32430/2		FOR FUTURE ORDERS		DRAWING No 25	
ITEM 3 SEE DRG No 3239/3		FOR FUTURE SEE DRG No 32430/3		DATE 16-2-39			
ITEM 4 SEE DRG No 3239/4		FOR FUTURE SEE DRG No 32430/4					



30X





**WHEEL & AXLE (MOTOR END)**

(LOGIC FOR 1938 TUBE STOCK)

FOR FUTURE SEE DRG No 32430/2

FOR FUTURE SEE DRG No 32430/3

FOR FUTURE SEE DRG No 32430/4

FOR FUTURE SEE DRG No 32430/5

FOR FUTURE SEE DRG No 32430/6

FOR FUTURE SEE DRG No 32430/7

FOR FUTURE SEE DRG No 32430/8

FOR FUTURE SEE DRG No 32430/9

FOR FUTURE SEE DRG No 32430/10

FOR FUTURE SEE DRG No 32430/11

FOR FUTURE SEE DRG No 32430/12

FOR FUTURE SEE DRG No 32430/13

FOR FUTURE SEE DRG No 32430/14

FOR FUTURE SEE DRG No 32430/15

FOR FUTURE SEE DRG No 32430/16

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FOR FUTURE SEE DRG No 32430/98

FOR FUTURE SEE DRG No 32430/99

FOR FUTURE SEE DRG No 32430/100

# F2 OF 2

**LONDON PASSENGER TRANSPORT BOARD**

**CHIEF MECH. ENGINEERS OFFICE**

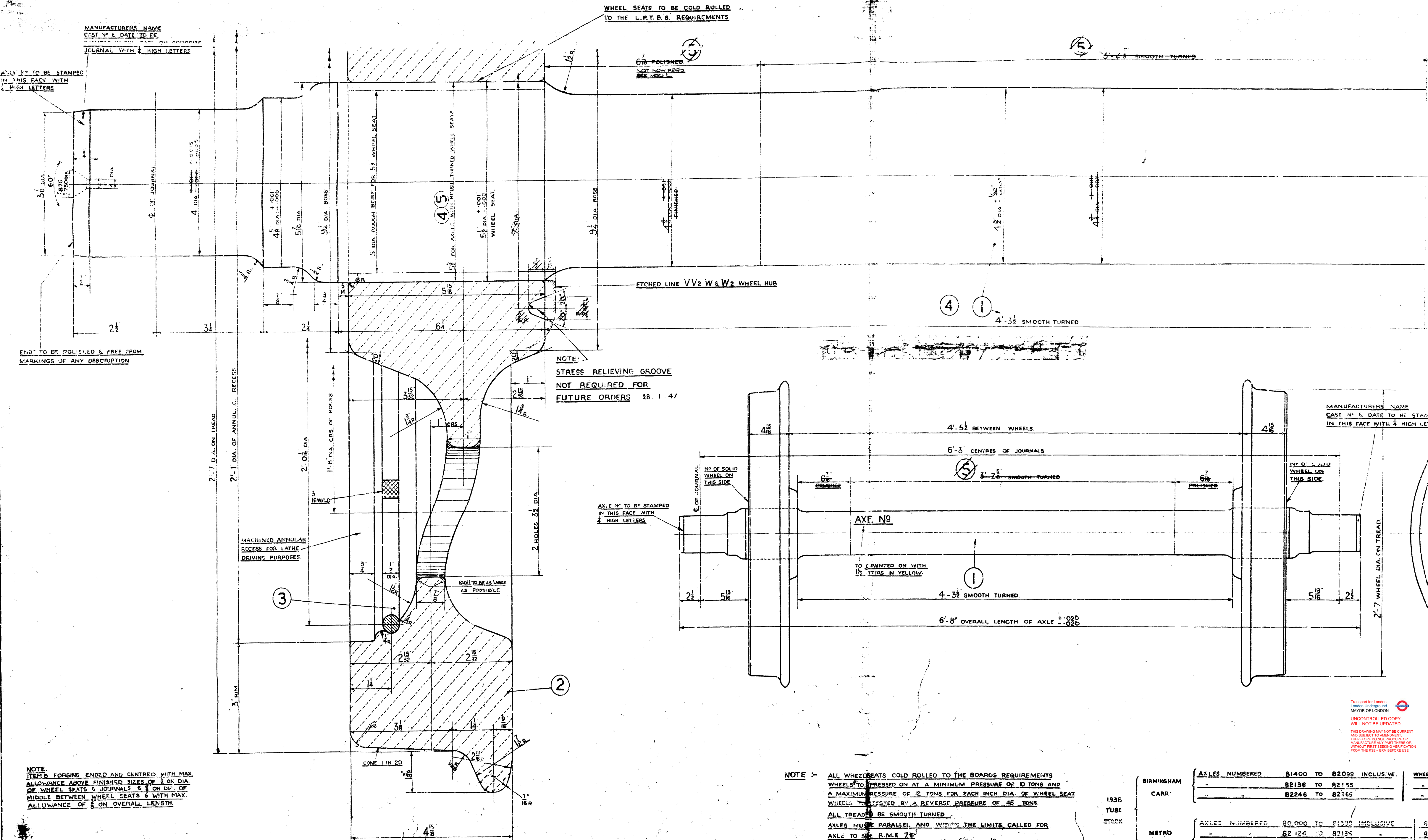
**DRAWING No 28866**

**DATE 16-2-39**



30X





NOTE. ITEMS FORGING ENDED AND CENTRED WITH MAX. ALLOWANCE ABOVE FINISHED SIZES OF 1/8 ON DIA. OF WHEEL SEATS & JOURNALS & 1/16 ON DIA. OF MIDDLE BETWEEN WHEEL SEATS & WITH MAX. ALLOWANCE OF 1/8 ON OVERALL LENGTH.

NOTE - ALL WHEEL SEATS COLD ROLLED TO THE BOARD'S REQUIREMENTS WHEELS TO BE PRESSED ON AT A MINIMUM PRESSURE OF 10 TONS AND A MAXIMUM PRESSURE OF 12 TONS FOR EACH INCH DIA. OF WHEEL SEAT WHEELS TO BE TESTED BY A REVERSE PRESSURE OF 45 TONS ALL TREADS TO BE SMOOTH TURNED AXLES MUST BE PARALLEL AND WITHIN THE LIMITS CALLED FOR AXLE TO S.S. R.M.S. 71 SCRAPING OF WHEEL 1/4" 1/8" 2-4 1/2 WHEELS TO B. SPECIFICATION D REVISED MARKINGS WHEELS & AXLE TO BE TO DRG. 32264

BIRMINGHAM CARR.	AXLES NUMBERED 81400 TO 82099 INCLUSIVE.		WHEELS
	82136	TO 82155	
METRO STOCK	AXLES NUMBERED 80,000 TO 81,399 INCLUSIVE.		WHEELS
	82124	TO 82135	
METRO STOCK	AXLES NUMBERED 82,124 TO 82,135 INCLUSIVE.		WHEELS
	8110	TO 8209	
METRO STOCK	AXLES NUMBERED 82,124 TO 82,135 INCLUSIVE.		WHEELS
	10358	TO 10381	

**F1 OF 2** 32264

NON-DRIVING WHEELS & AXLE (RE-TYRING TYPE SOLID WHEEL)  
1938 TUBE STOCK BOGIE  
TYPES V V2 W & W2 BOGIES - AXLE

THIS DRG. SUPERSEDES DRGS

ITEM	DESCRIPTION	DATE	BY	FOR
1	FOR FUTURE REPLACEMENTS FOR ITEM 2 USE DRG. 35507, S.F.E. D.M. 20955.	24/1/59	W.E. D.G. 35507	FOR FUTURE REPLACEMENTS FOR ITEM 2
2	FOR FUTURE REPLACEMENTS FOR ITEM 1 USE DRG. 16715	24/8/78	V.V. W & W2	FOR FUTURE REPLACEMENTS FOR ITEM 1
3	FOR FUTURE REPLACEMENTS FOR ITEM 2 USE DRG. 16715	24/8/78	1938 TUBE	FOR FUTURE REPLACEMENTS FOR ITEM 2
4	FOR FUTURE REPLACEMENTS FOR ITEM 1 USE DRG. 16715	4/2/82	W & W2	FOR FUTURE REPLACEMENTS FOR ITEM 1
5	FOR FUTURE REPLACEMENTS FOR ITEM 2 USE DRG. 16715	2/1/88	1938 TUBE	FOR FUTURE REPLACEMENTS FOR ITEM 2
6	FOR FUTURE REPLACEMENTS FOR ITEM 1 USE DRG. 16715	2/1/88	W & W2	FOR FUTURE REPLACEMENTS FOR ITEM 1
7	FOR FUTURE REPLACEMENTS FOR ITEM 2 USE DRG. 16715	2/1/88	1938 TUBE	FOR FUTURE REPLACEMENTS FOR ITEM 2
8	FOR FUTURE REPLACEMENTS FOR ITEM 1 USE DRG. 16715	2/1/88	W & W2	FOR FUTURE REPLACEMENTS FOR ITEM 1
9	FOR FUTURE REPLACEMENTS FOR ITEM 2 USE DRG. 16715	2/1/88	1938 TUBE	FOR FUTURE REPLACEMENTS FOR ITEM 2
10	FOR FUTURE REPLACEMENTS FOR ITEM 1 USE DRG. 16715	2/1/88	W & W2	FOR FUTURE REPLACEMENTS FOR ITEM 1

ITEM	DESCRIPTION	DATE	BY	FOR
1	MOD 8110 NOTE ADDED RE-LATHE CENTRES FOR MOD 8110 LIMITS ADDED TO TURNING CENTRES	24/1/59	W.E. D.G. 35507	FOR FUTURE REPLACEMENTS FOR ITEM 2
2	MOD 8110 DIA INCREASED TO 2-4 1/2 V.S.M.	24/8/78	V.V. W & W2	FOR FUTURE REPLACEMENTS FOR ITEM 1
3	MOD 8110 DIA INCREASED TO 2-4 1/2 V.S.M.	24/8/78	1938 TUBE	FOR FUTURE REPLACEMENTS FOR ITEM 2
4	MOD 8110 DIA INCREASED TO 2-4 1/2 V.S.M.	4/2/82	W & W2	FOR FUTURE REPLACEMENTS FOR ITEM 1
5	MOD 8110 DIA INCREASED TO 2-4 1/2 V.S.M.	2/1/88	1938 TUBE	FOR FUTURE REPLACEMENTS FOR ITEM 2
6	MOD 8110 DIA INCREASED TO 2-4 1/2 V.S.M.	2/1/88	W & W2	FOR FUTURE REPLACEMENTS FOR ITEM 1
7	MOD 8110 DIA INCREASED TO 2-4 1/2 V.S.M.	2/1/88	1938 TUBE	FOR FUTURE REPLACEMENTS FOR ITEM 2
8	MOD 8110 DIA INCREASED TO 2-4 1/2 V.S.M.	2/1/88	W & W2	FOR FUTURE REPLACEMENTS FOR ITEM 1
9	MOD 8110 DIA INCREASED TO 2-4 1/2 V.S.M.	2/1/88	1938 TUBE	FOR FUTURE REPLACEMENTS FOR ITEM 2
10	MOD 8110 DIA INCREASED TO 2-4 1/2 V.S.M.	2/1/88	W & W2	FOR FUTURE REPLACEMENTS FOR ITEM 1

30X



