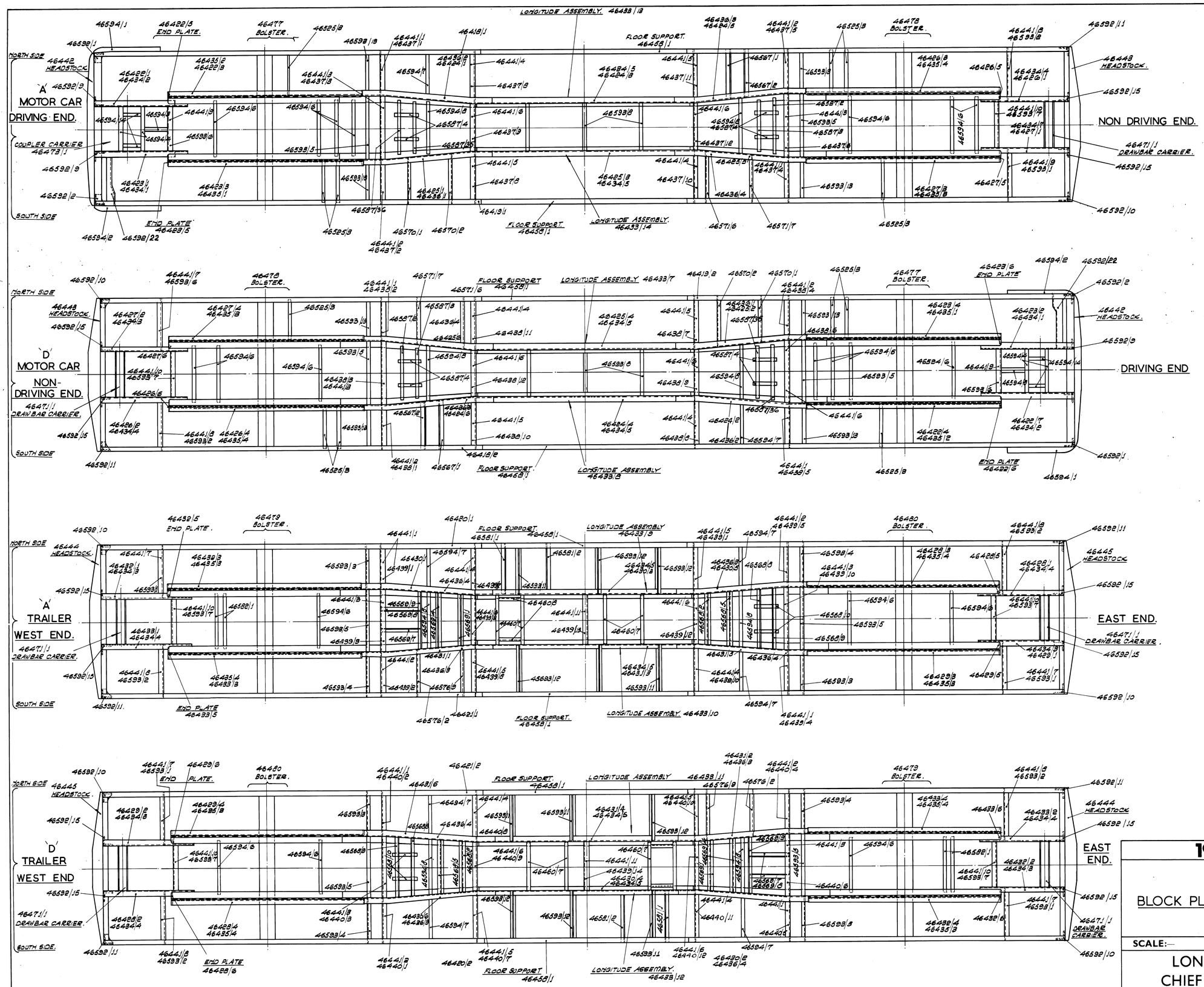

FOR PRESSINGS SEE DRG. Nos. 46434, 46435, 46436 & 46441.

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1967 TUBE STOCK

BLOCK PLAN OF STRUCTURAL MEMBERS.

SCALE:— 1/2 INCH TO A FOOT

LONDON TRANSPORT BOARD
CHIEF MECHL. ENGINEERS OFFICE

DRAWING Nº 46397

DATE 1·5·68

OFFICE 475 | FILING 475

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CONTRACTORS DRG. No. 10076/190/F

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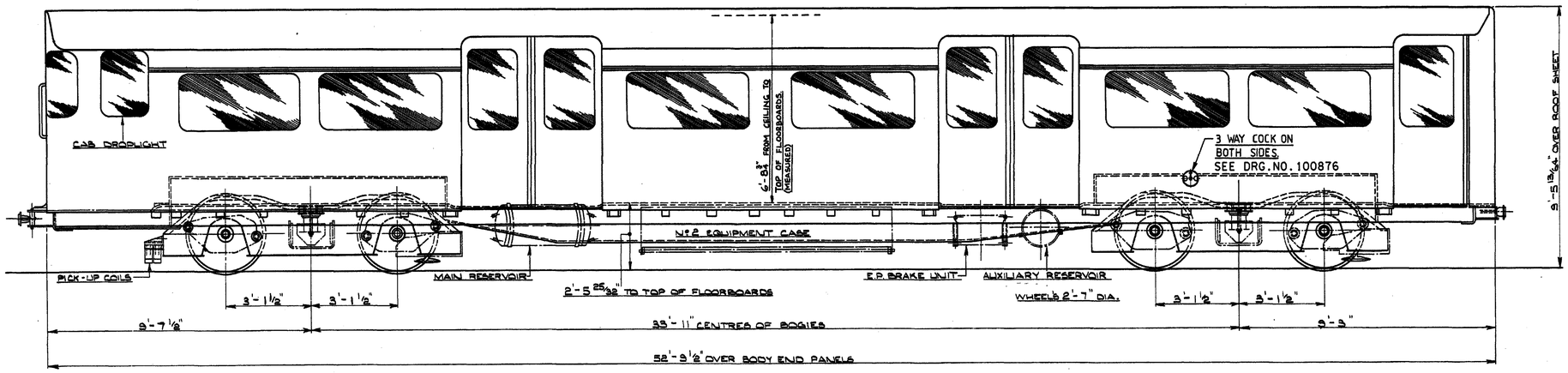

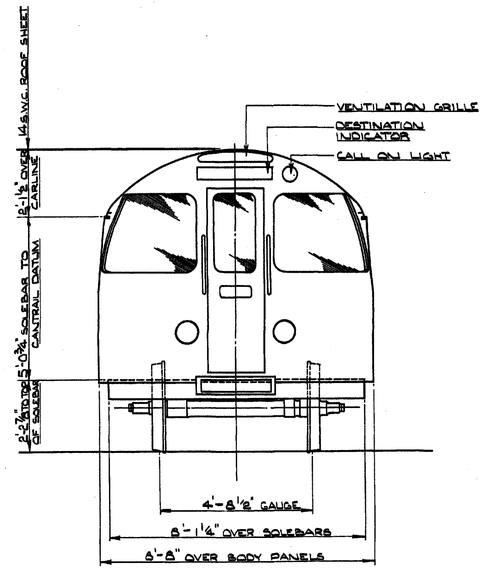

DRIVING END ELEVATION

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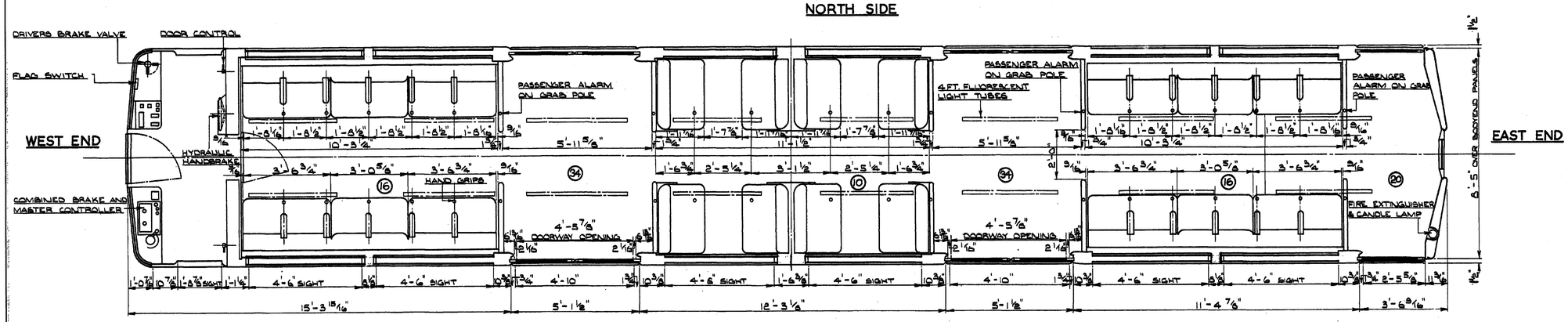
NORTH SIDE



SOUTH SIDE

SEATED PASSENGERS = 40
STANDING " = 130

DRAWN	P.J.C.	LONDON TRANSPORT EXECUTIVE	1967 TUBE STOCK		
TRACED	S.A.S.	GENERAL ARRANGEMENT MOTOR CAR TYPE A & D			
CHECKED	K.R.(T)				
DRAWING No.	414/414				

B	VIC CRS 2352 ARRGT. DRAWING NO. 100876 ADDED FOR 3 WAY COCKS	MOD BY	A.S.D.	30/12/03
		CHECKED	RB	21/04/04
		APPROVED	JH	26/11/04
A	MOD. 9345. 3 WAY COCKS ADDED		A.S.D.	12-4-83
SCALE	½" TO 1 FOOT			

DRAWING No. 47317

DATE 13·3·63
TRACED 11·7·63

B
A

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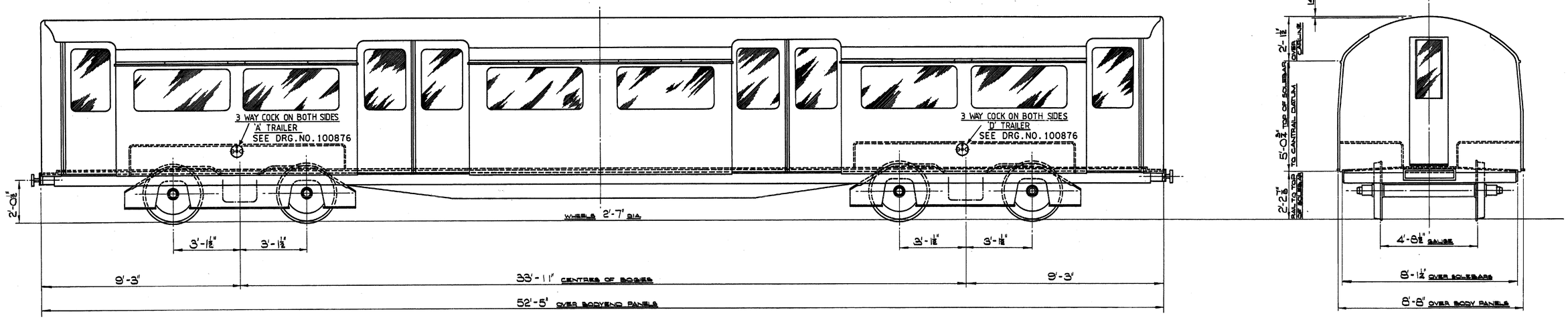

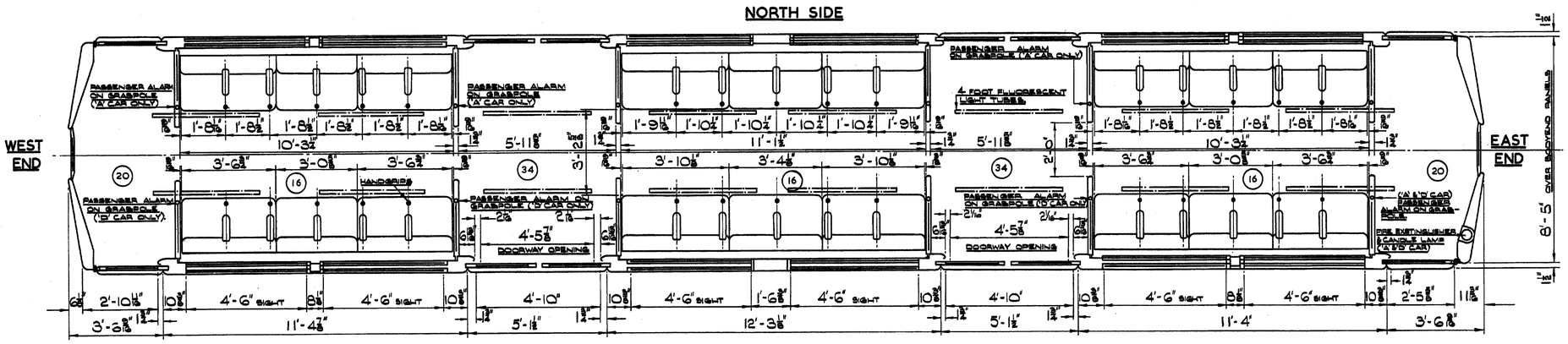

SEATED PASSENGERS = 36
STANDING PASSENGERS = 156

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FOR G.A. OF MOTOR CAR SEE DRG. No. 47317.

LONDON TRANSPORT EXECUTIVE

1967 TUBE STOCK - 'A' & 'D' TRAILERS

DRAWN M.D.P.
TRACED J.M.W.
M.D.P.(Y)
CHECKED K.R.(a)
APPROVED
DRAWING No. 414/414

GENERAL ARRANGEMENT TRAILER CAR

(TYPES 'A' & 'D')

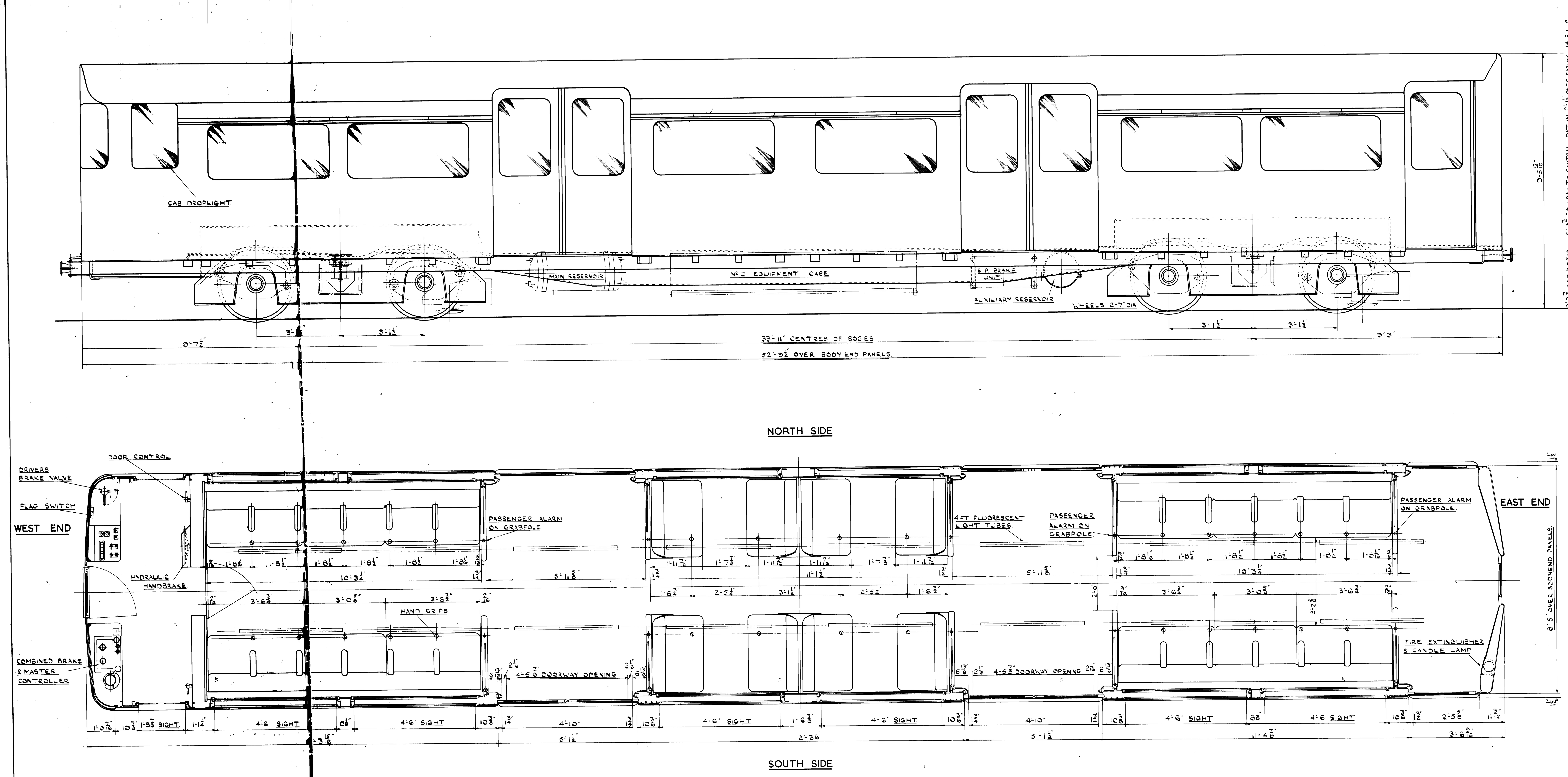
B	VIC CRS 2352 ARRGT. DRAWING NO. 100876 ADDED FOR 3 WAY COCKS	MOD BY	A.S.D.	30/12/03
		CHECKED		21/01/04
		APPROVED	JH	26/1/04
A	MOD. 9345. 3 WAY COCK ADDED		A.S.D.	11-4-83

SCALE ½" = 1 FOOT.

DRAWING No. 47550

DATE 11-7-68
TRACED 18-11-68

B



NOTE :- USE DRG. No. 47317 FOR FUTURE

MICROFILMED

DATE	1ST ISSUE	A
25/5/66	1/16" GAPS BETWEEN LONGITUDINAL SEATS ELIMINATED END SEATS OF END BAYS INCREASED IN LENGTH FROM 3'-6 5/8" TO 3'-6 3/4" & SEAT LINERS ALTERED FROM 5/8" TO 9/16"	B

10076

LONDON TRANSPORT BOARD
1967 TUBE STOCK.
61 MOTOR CARS TYPE A
61 MOTOR CARS TYPE D
61 TRAILER CARS TYPE A
61 TRAILER CARS TYPE D.

1967 TUBE STOCK			
METROPOLITAN-CAMMELL LTD BIRMINGHAM, ENGLAND.			
GRIND / FINE M/C / ROUGH M/C	DRAWN		
	TRACED.	M.M.W.	20-9-67
SCALE 3/4" TO 1 FOOT	CHECKED	M.F.V.	19-10-67
TITLE GENERAL ARRANGEMENT MOTOR CAR TYPES A & D.	DATE STAMP L.T.B. DRG No. 46144		
DRG No 10076 / 500	PAGE No	ISSUE A B	

DRAWER No. 414/414

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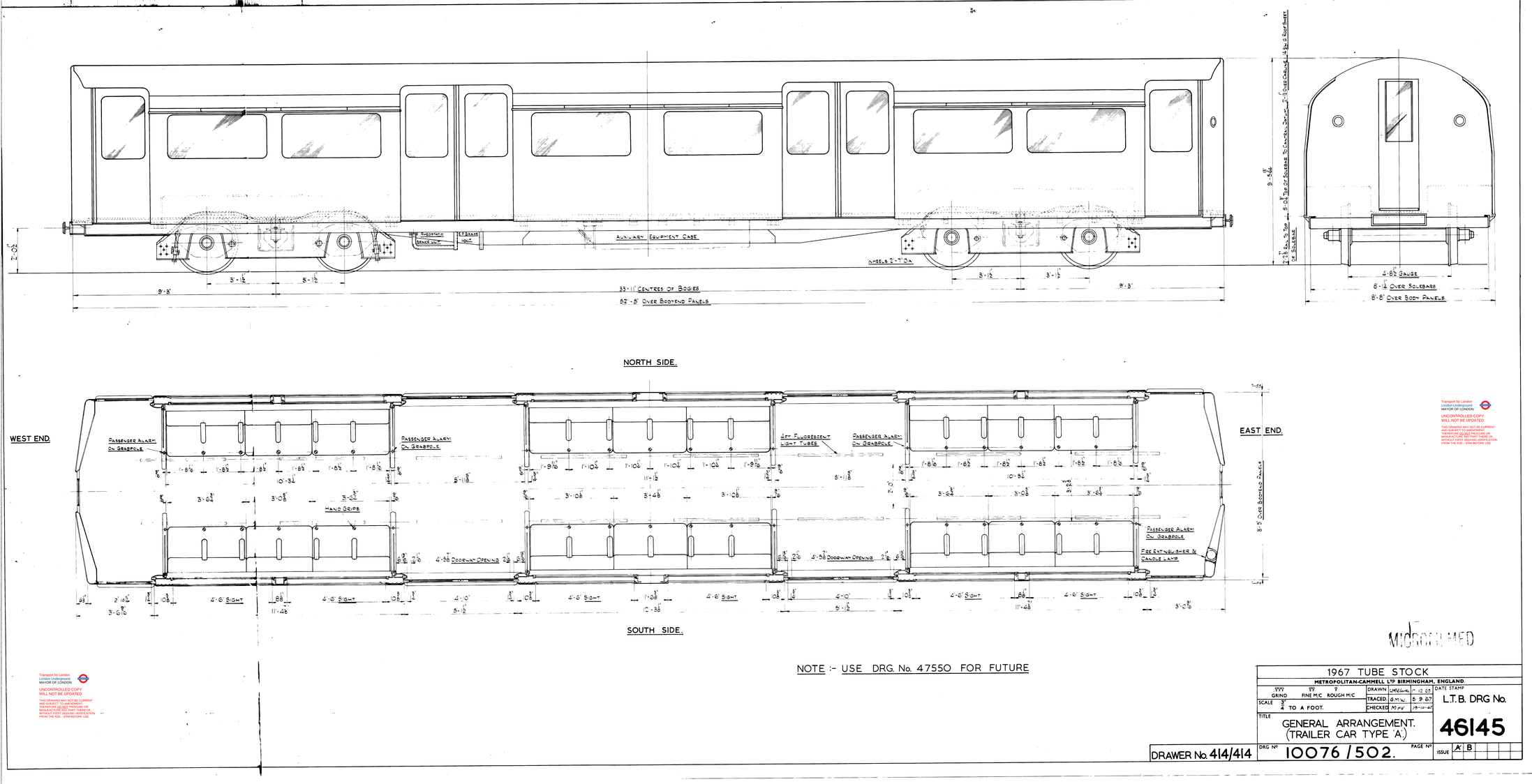

NOTE :- USE DRG. No. 47550 FOR FUTURE

MISCELLANEOUS

1967 TUBE STOCK	
METROPOLITAN-CAMMELL LTD BIRMINGHAM, ENGLAND	
∇∇∇ GRIND ∇∇ FINE M/C ∇ ROUGH M/C	DRAWN J.M.S.Lewis 7.12.65
SCALE 3/4" TO A FOOT.	TRACED G.M.W. 6.9.67
	CHECKED M.J.V. 19-11-67
TITLE GENERAL ARRANGEMENT. (TRAILER CAR TYPE 'A.')	DATE STAMP L.T.B. DRG No. 46145
DRG Nº 10076/502.	PAGE Nº
	ISSUE A B

DRAWER No. 414/414

MODIFICATIONS

DATE		
	1ST ISSUE	A
26 5 66	16 GAPS BETWEEN SEATS ELIMINATED AND SEATS OF ALL BAYS INCREASED BY 8" IN LENGTH. SEAT LINERS ALTERED FROM 7/8 TO 7/16	B
	PUSH BUTTON C13 MARKED	

10076.

LONDON TRANSPORT BOARD
1967 TUBE STOCK
G1-MOTOR CARS TYPE 'A'
G1-MOTOR CARS TYPE 'D'
G1-TRAILER CARS TYPE 'A'
G1-TRAILER CARS TYPE 'D'

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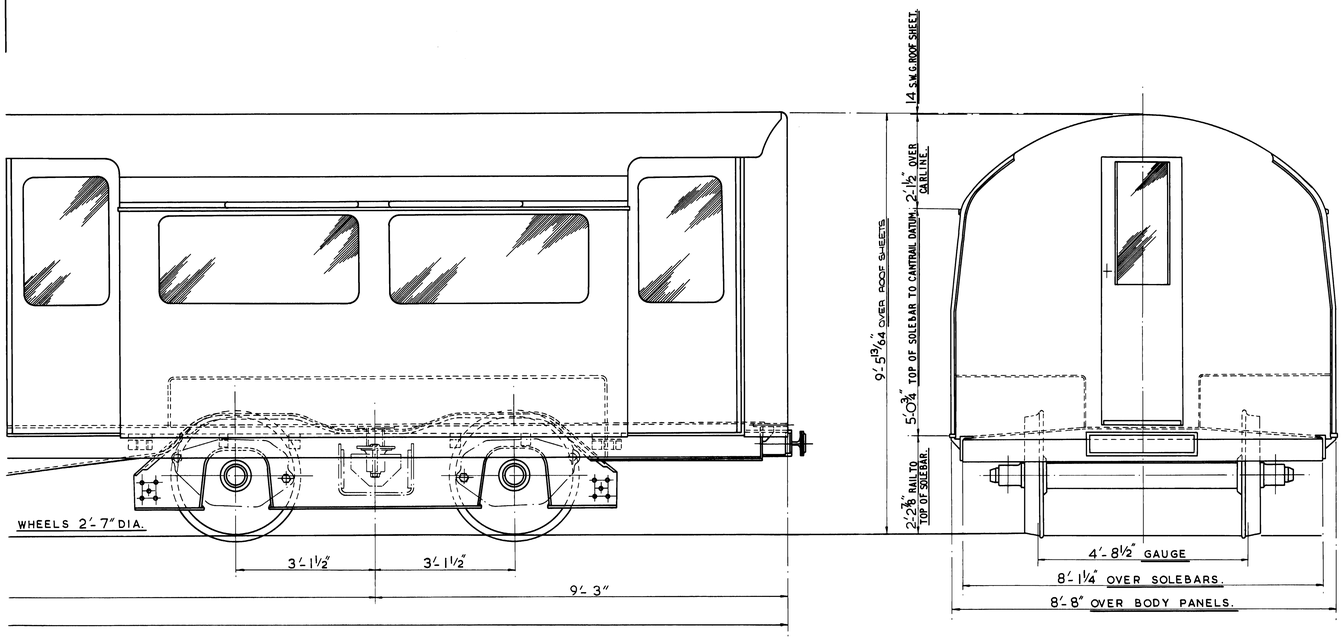

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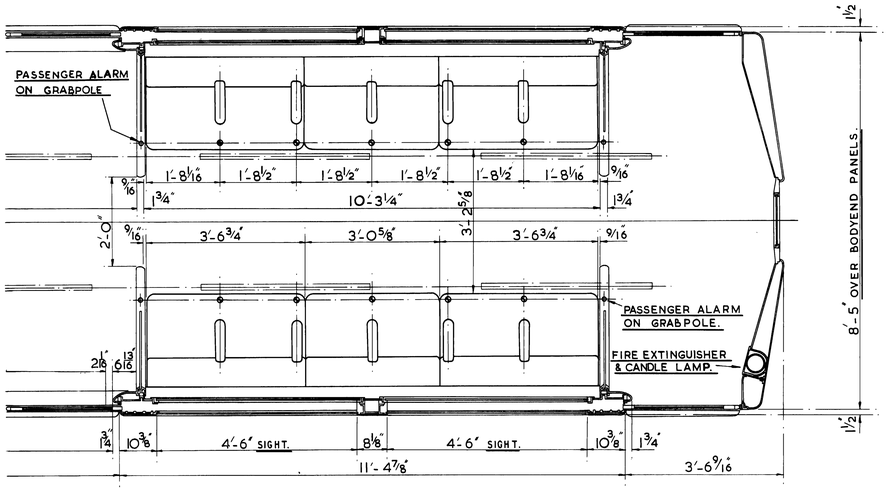

EAST END.

SCANNED

CANCELLED
FOR GA SHOWING COMPLETE CAR
SEE DRG 47550

1967 TUBE STOCK

GENERAL ARRANGEMENT.
(TRAILER CAR TYPE 'A'.)

SCALE:– 3/4 INCH TO A FOOT

LONDON TRANSPORT BOARD
CHIEF MECHL. ENGINEERS OFFICE

DRAWING No 46145 SHEET 2 OF 2.

DATE 12-3-68

OFFICE 414 FILING 414

CONTRACTORS DRG. No. 10076/502/B.

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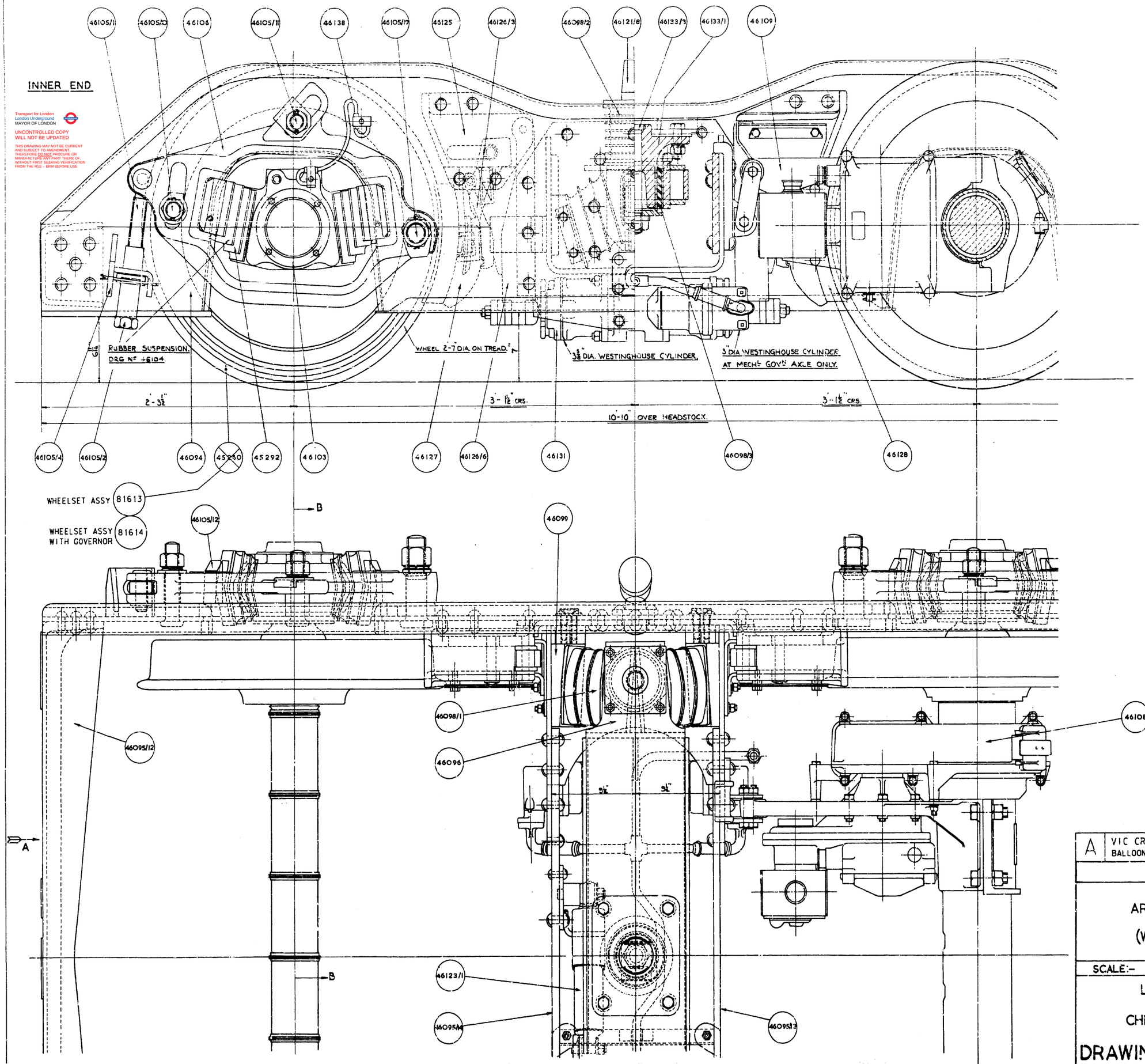

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A	VIC CRS 2032 BALLOON REF. 81613 & 81614 FOR WHEELSET ASSY. WAS 45260 (M)	A.S.D. 16-6-94

1967 TUBE STOCK

ARRGT. OF TRAILER BOGIE.

(WITH GOVERNOR) SHEET 1

SCALE:- 3 INCHES TO A FOOT

LONDON TRANSPORT BOARD

CHIEF MECHL. ENGINEERS OFFICE

DRAWING No. 46092 SHEET 1 OF 2

DATE 27.10.67.

A

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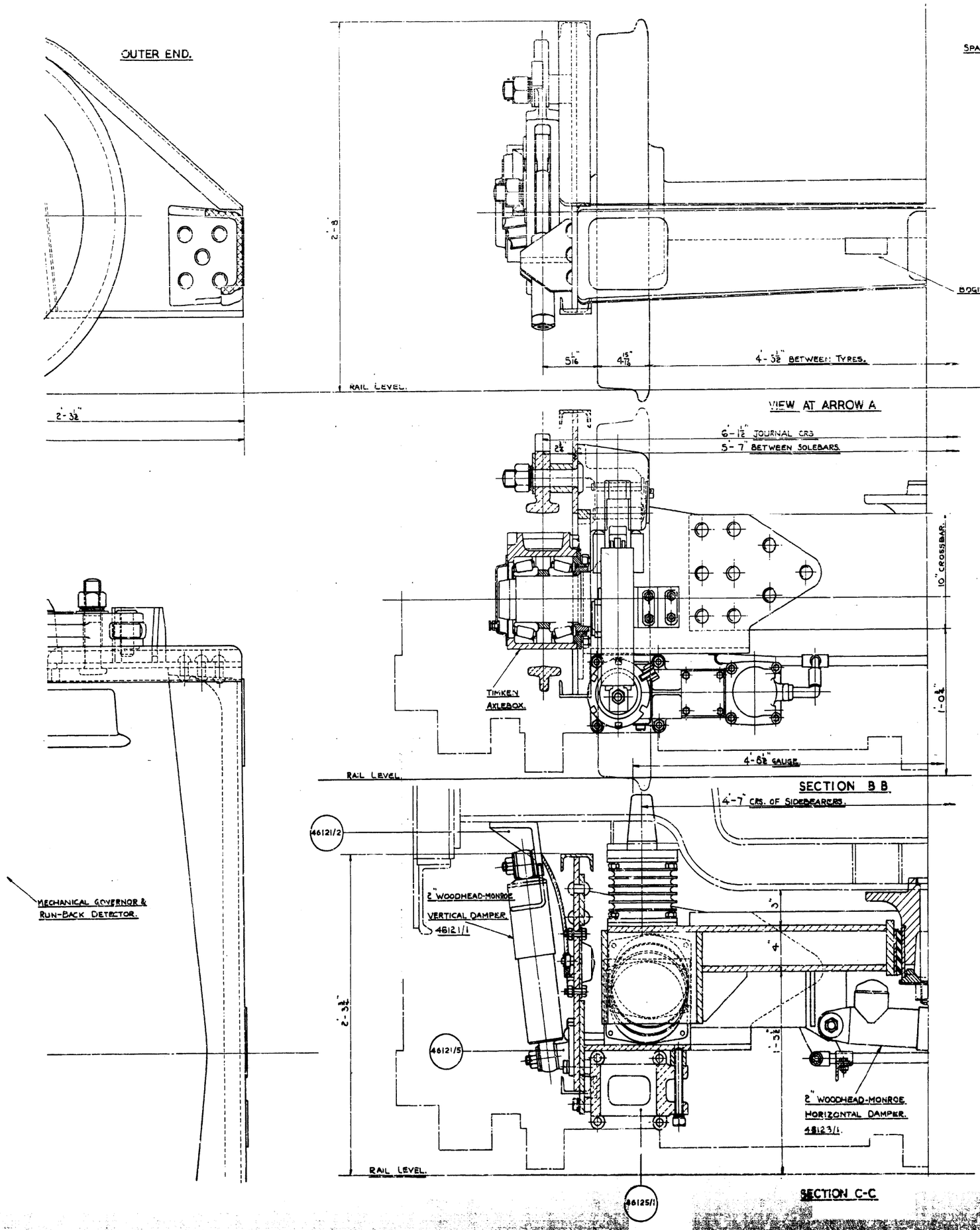
CONTRACTORS DRG. No. A32430/2/A



SPARE BOGIES.

2 TRAILER BOGIES (LEADING)

LESS:- BKE CYL. 46131/1&3 x 46131/2&4 EARTH BOND 46138/2 MECHN GOVN 46111/1 & 2 46146/1
AXLE PROTECTION 46142/1&3 CYL. HOSE & CLIPS 46129/1 & 31 BKE. BLOCKS 46128/1
AXLEBOX YOKES 46106/1&2 MECHN GOVN SUSP. UNIT 46102/1
TIMKEN AXLEBOX 46103/2 MECHN GOVN WHEELS & AXLES 46141/1
TRAILER WHEELS & AXLES. 46143/1

2 TRAILER BOGIES (TRAILING)

LESS:- BKE CYL. 46131/1&3 EARTH BOND 46138/2 AXLE PROTECTION 46142/1&3
CYL. HOSE & CLIPS 46129/1 & 31 BKE BLOCKS 46128/1 AXLEBOX YOKES 46106/1&2
TIMKEN AXLEBOX 46103/2 TRAILER WHEELS & AXLES. 46143/1

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LIST OF DRAWINGS.

46033	ARRANGEMENT OF BOGIE FRAME.
46034	ASSEMBLY & DETAILS OF BOGIE SOLEBAR.
46035	ASSY. & DETAILS OF CROSSBAR & HEADSTOCK.
46096	ASSY. & DETAILS OF BOGIE BOLSTER.
46104	AXLEBOX RUBBER SUSPENSION ARRANGEMENT.
46124	ARRANGEMENT OF BRAKE GEAR.
46120	ARRANGEMENT OF VERTICAL DAMPER.
46097	ARRANGEMENT OF BOLSTER SUSPENSION.
46129	ARRANGEMENT OF BRAKE PIPING.
46133	ARRGT & DETAILS OF CENTRE BEARING.
46122	ARRANGEMENT OF TRANSVERSE DAMPER.
46128	ARRGT OF MECH. GOVERNOR & RUN-BACK DETECTOR.

BOGIE SERIAL NOS.
TRAILER BOGIES (LEADING) 3025 - 3146 INCL
TRAILER BOGIES (TRAILING) 3147 - 3268 INCL
SPARE BOGIES
TRAILER BOGIES (LEADING) 3269 - 3270.
TRAILER BOGIES (TRAILING) 3271 - 3272.

LEADING TRAILER BOGIE (WITH MECHN GOVN) 'D' CAR SHOWN.

TRAILING TRAILER BOGIE DOES NOT HAVE MECHN GOVERNOR FITTED.
FOR EQUIPMENT POSITIONS SEE DIAGRAM DRG. Nº 46139.

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A	VIC CRS 2032	SEE SHEET 1	A.S.D. 16-6-94

1967 TUBE STOCK.

ARRGT. OF TRAILER BOGIE
(WITH GOVERNOR) SHEET 2

SCALE 3 INCHES TO A FOOT

LONDON TRANSPORT BOARD
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DRAWING No. 46092 SHEET 2 OF 2

DATE 27.10.67.

A

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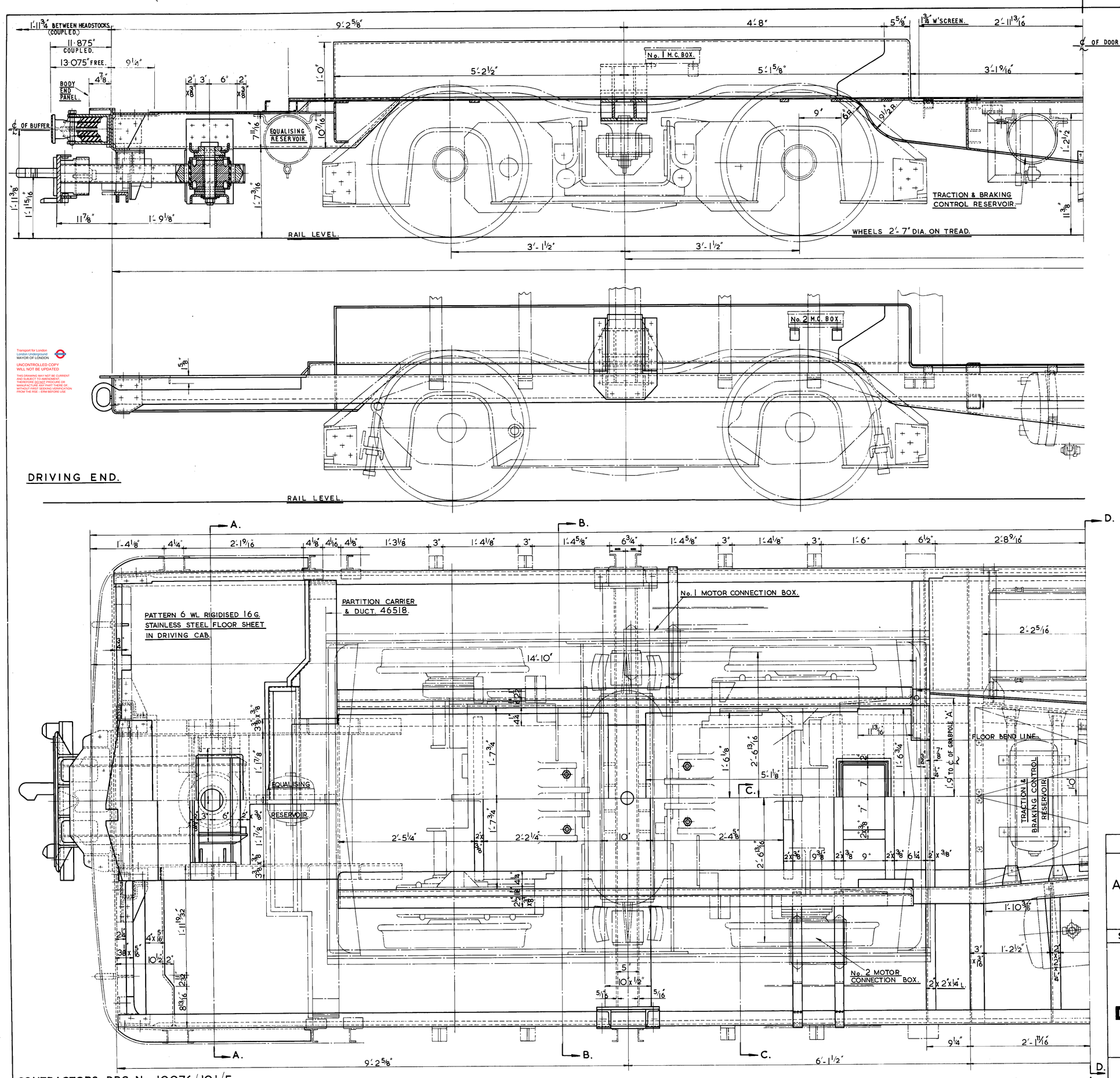
CONTRACTORS DRG. Nº A32430/2/A



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1967 TUBE STOCK

ARRANGEMENT OF UNDERFRAME STRUCTURE.
MOTOR CARS TYPES A & D.

SCALE:— 1½ INCHES TO A FOOT

LONDON TRANSPORT BOARD
CHIEF MECHL. ENGINEERS OFFICE

DRAWING Nº 46398. SHEET 1 OF 3.

DATE 14-6-68.

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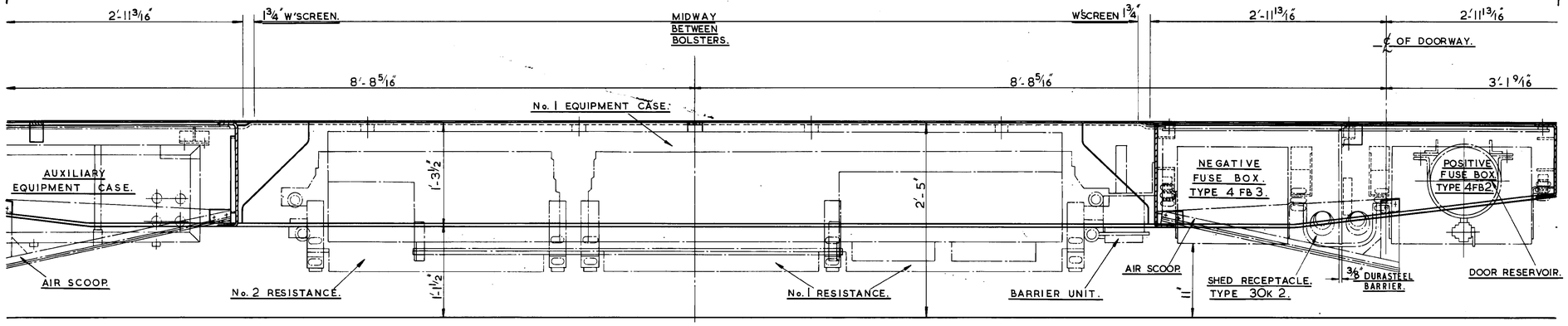

33'-11" BOLSTER CENTRES.
51'-9 1/4" OVER HEADSTOCKS.

SECTIONAL ELEVATION ON ℄ OF CAR.

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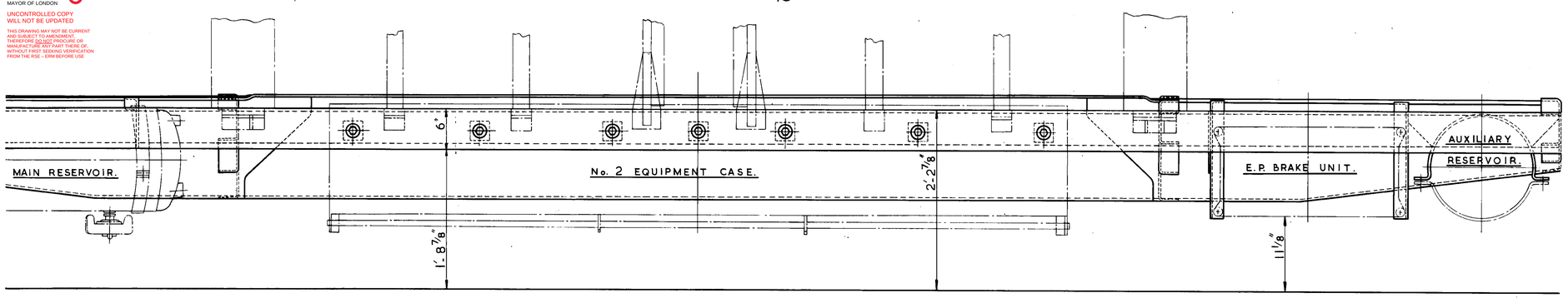

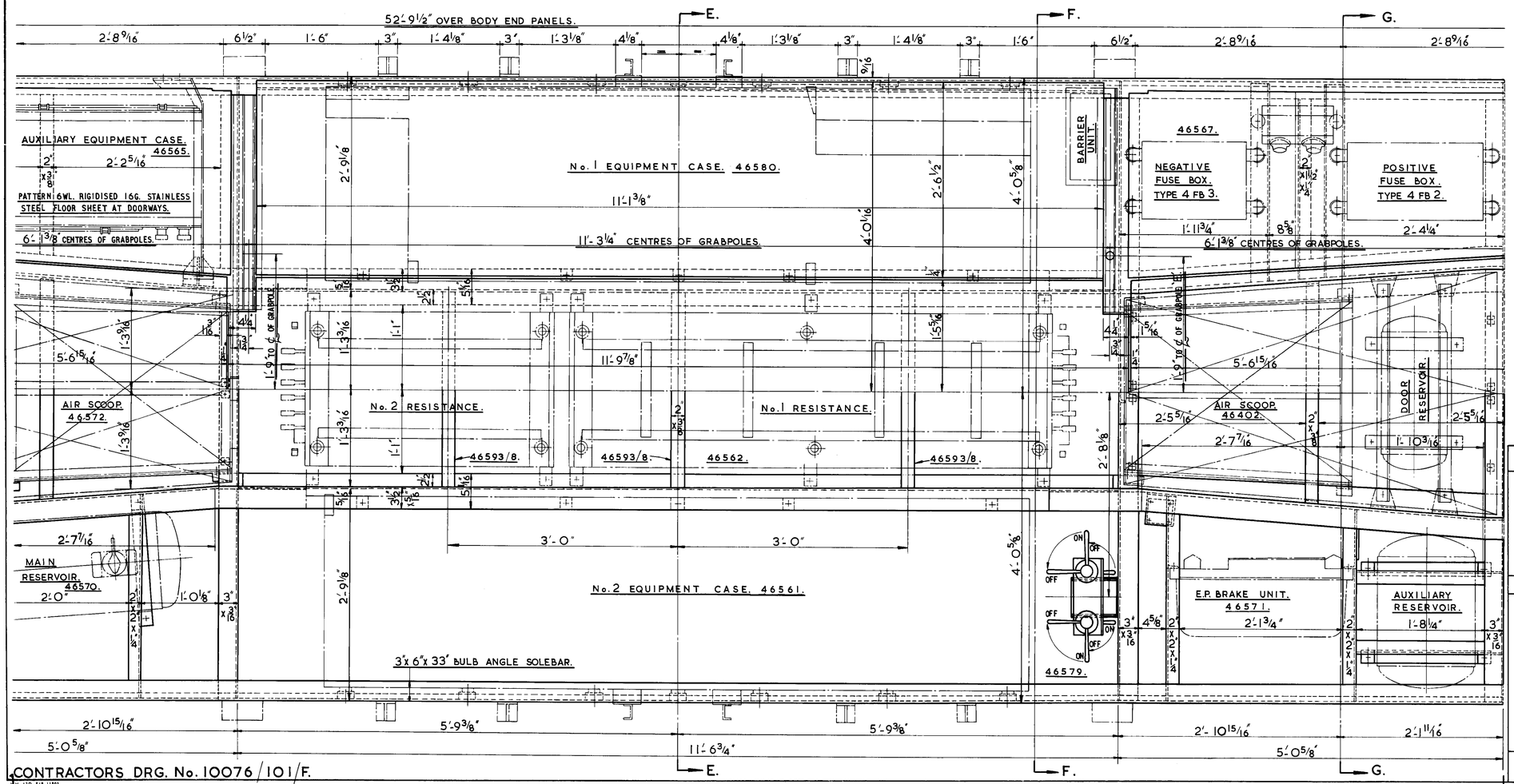

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1967 TUBE STOCK

ARRANGEMENT OF UNDERFRAME STRUCTURE.
MOTOR CARS TYPE A & D.

SCALE:— 1 1/2 INCHES TO A FOOT

LONDON TRANSPORT BOARD
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DRAWING Nº 46398. SHEET 2 OF 3.

DATE 14-6-68.

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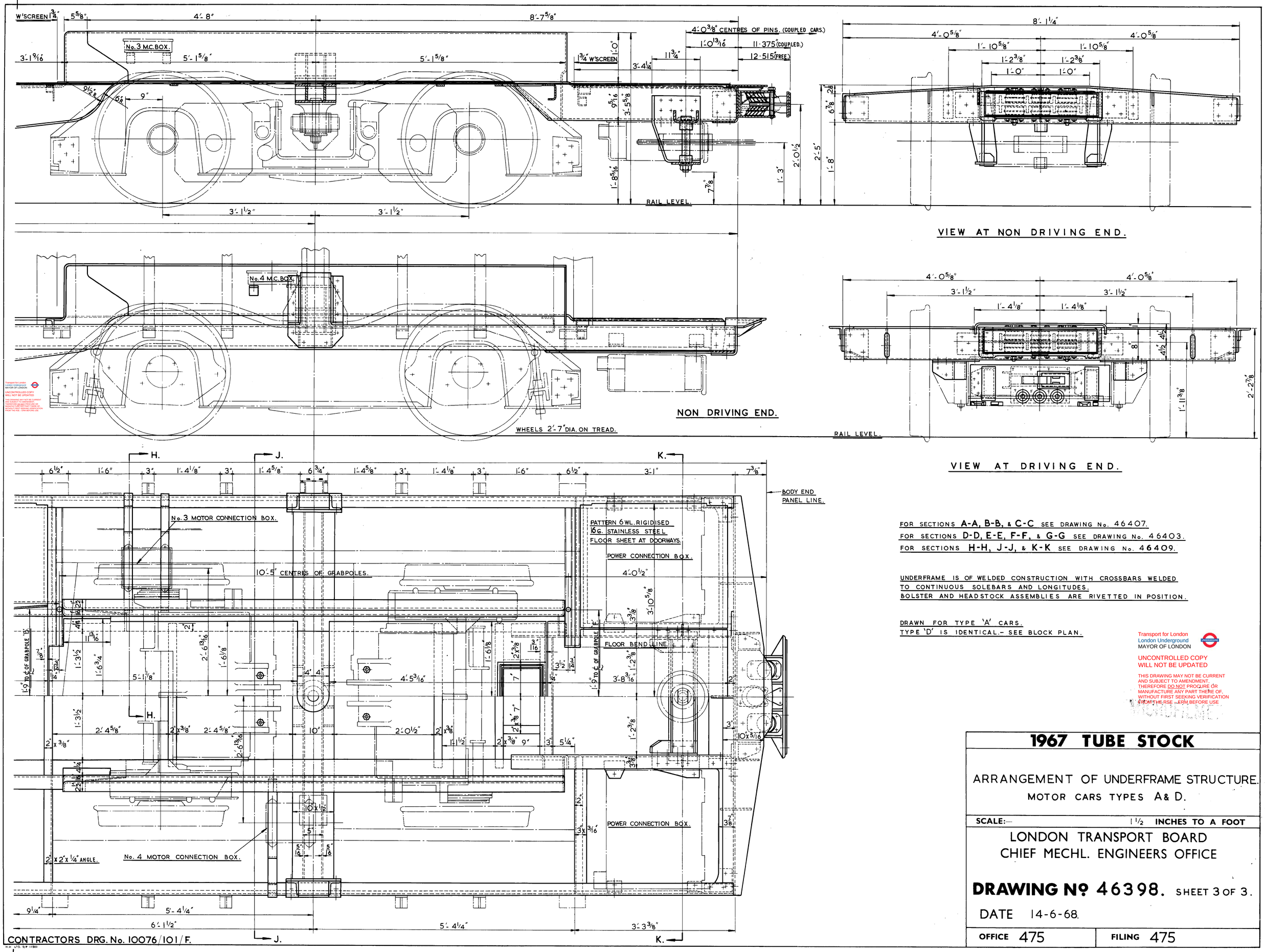

FOR SECTIONS A-A, B-B, & C-C SEE DRAWING No. 46407.
FOR SECTIONS D-D, E-E, F-F, & G-G SEE DRAWING No. 46403.
FOR SECTIONS H-H, J-J, & K-K SEE DRAWING No. 46409.

UNDERFRAME IS OF WELDED CONSTRUCTION WITH CROSSBARS WELDED TO CONTINUOUS SOLEBARS AND LONGITUDES.
BOLSTER AND HEADSTOCK ASSEMBLIES ARE RIVETTED IN POSITION.

DRAWN FOR TYPE 'A' CARS.
TYPE 'D' IS IDENTICAL.- SEE BLOCK PLAN.

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1967 TUBE STOCK

ARRANGEMENT OF UNDERFRAME STRUCTURE.
MOTOR CARS TYPES A & D.

SCALE:— 1 1/2 INCHES TO A FOOT

LONDON TRANSPORT BOARD
CHIEF MECHL. ENGINEERS OFFICE

DRAWING Nº 46398. SHEET 3 OF 3.

DATE 14-6-68.

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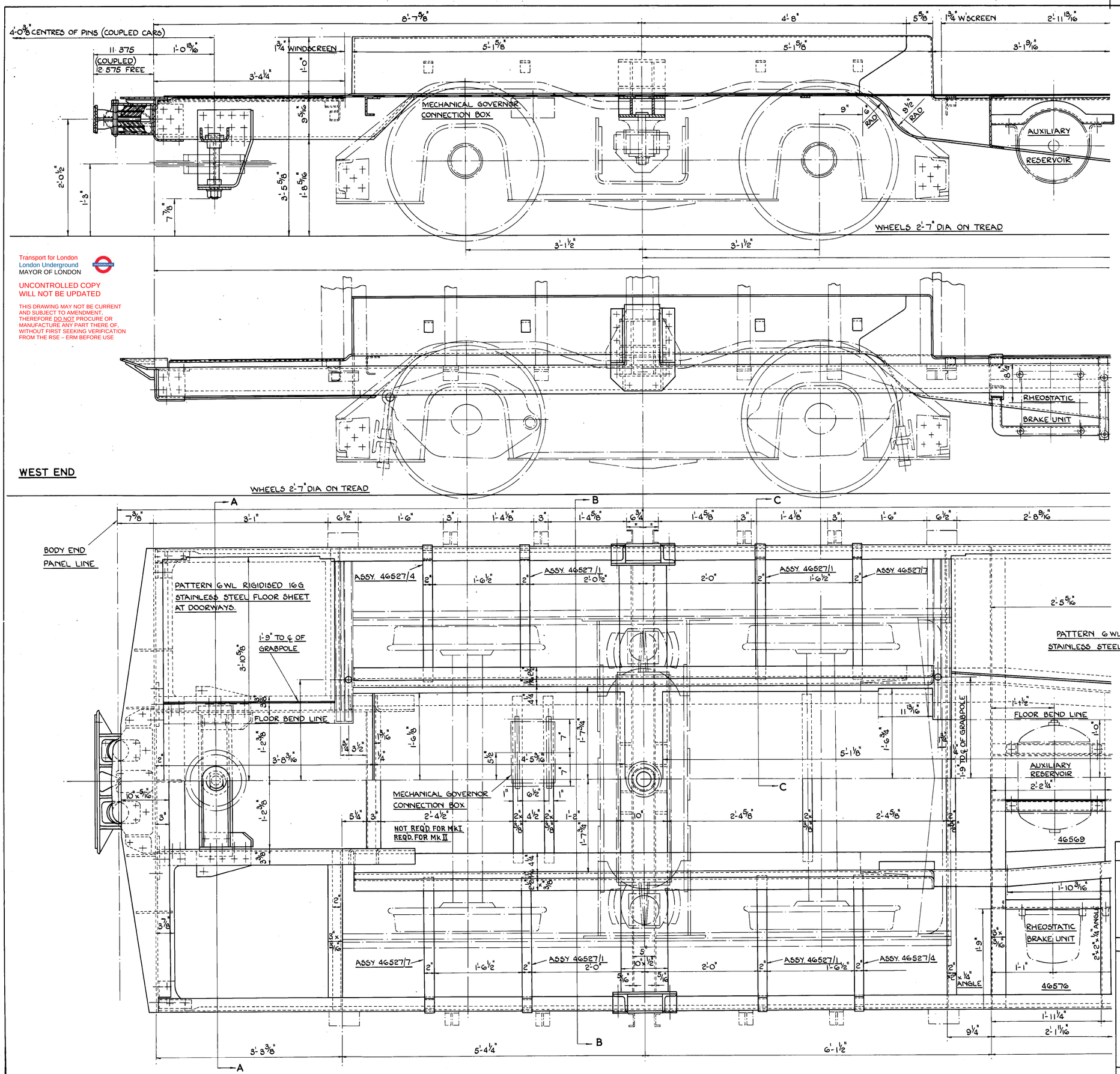

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1972 MKI & MK II TUBE STOCK

1967 TUBE STOCK

ARRANGEMENT OF UNDERFRAME STRUCTURE

TRAILER CARS TYPE A & D

SCALE:— 1½ INCHES TO A FOOT

LONDON TRANSPORT BOARD
CHIEF MECHL. ENGINEERS OFFICE

DRAWING Nº 46399 SHEET 1 OF 3 SHEETS

DATE 14-6-68.

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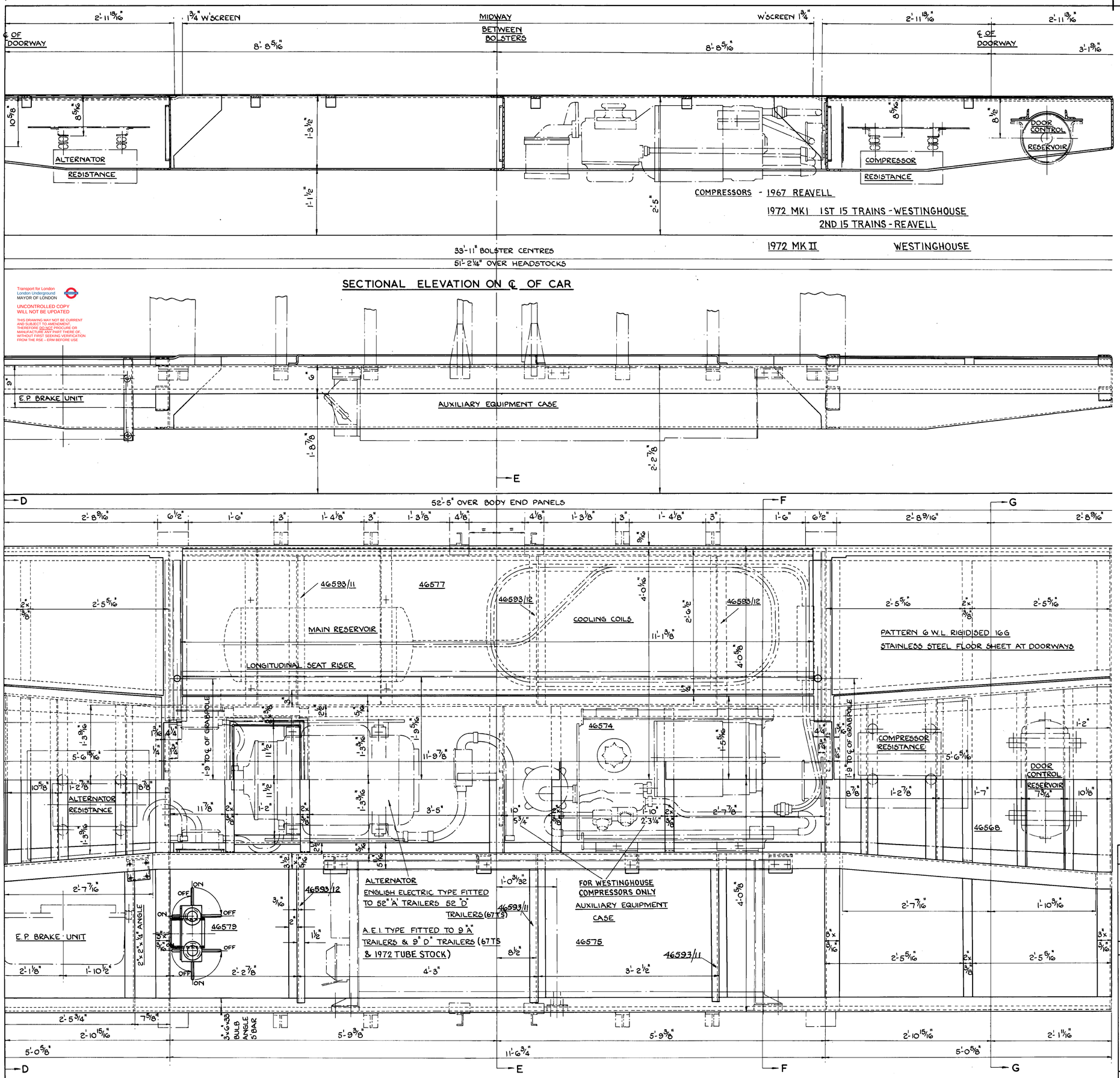

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1972 MK1 & MKII TUBE STOCK

1967 TUBE STOCK

ARRANGEMENT OF UNDERFRAME STRUCTURE

TRAILER CARS TYPE A & D

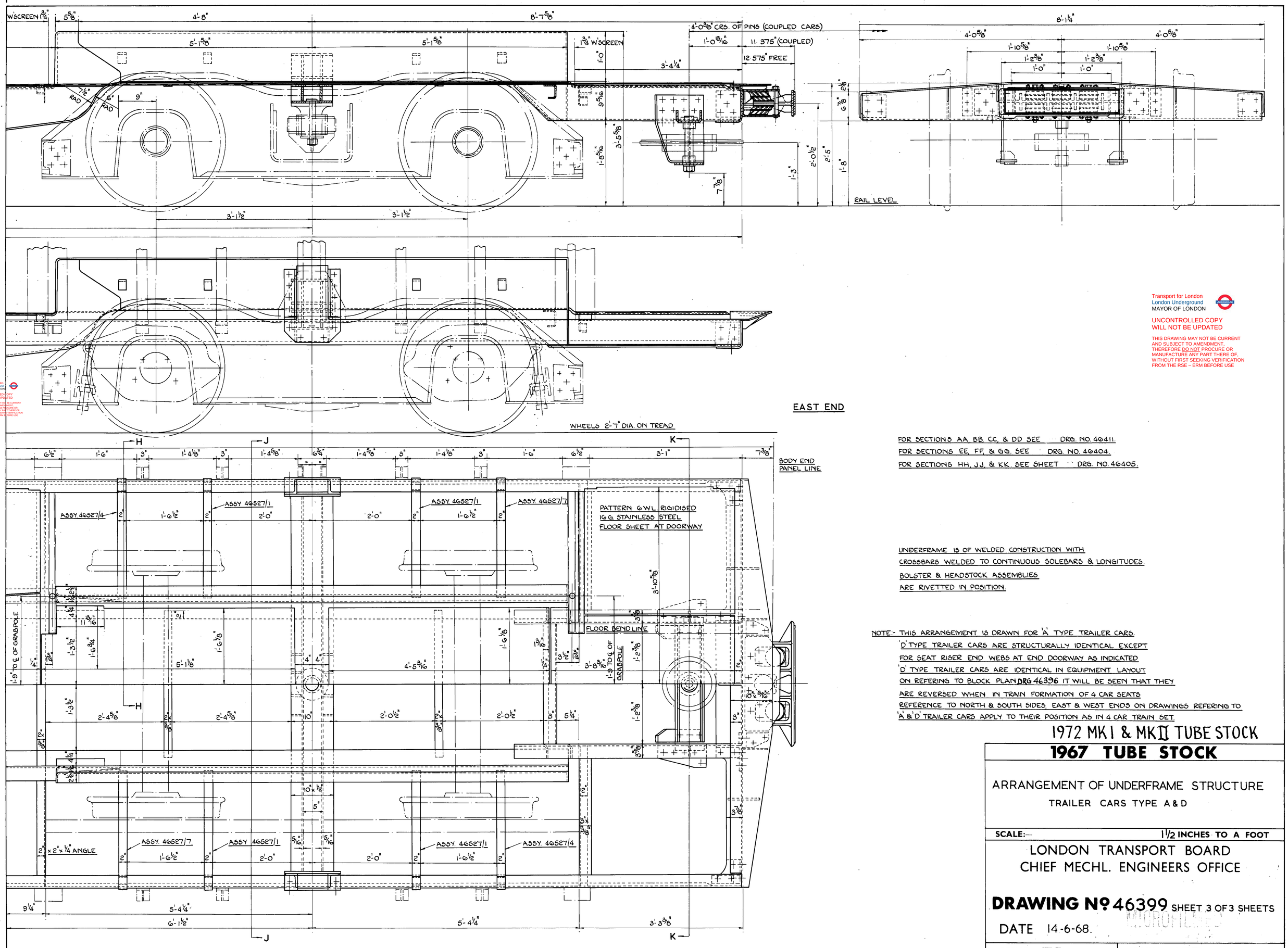
SCALE:— 1½ INCHES TO A FOOT

LONDON TRANSPORT BOARD
CHIEF MECHL. ENGINEERS OFFICE

DRAWING Nº 46399 SHEET 2 OF 3 SHEETS

DATE 14-6-68.

OFFICE 475 | FILING 475



FOR SECTIONS AA, BB, CC, & DD SEE DRG. NO. 46411.
FOR SECTIONS EE, FF, & GG. SEE DRG. NO. 46404.
FOR SECTIONS HH, JJ, & KK. SEE SHEET DRG. NO. 46405.

UNDERFRAME IS OF WELDED CONSTRUCTION WITH CROSSBARS WELDED TO CONTINUOUS SOLEBARS & LONGITUDES. BOLSTER & HEADSTOCK ASSEMBLIES ARE RIVETTED IN POSITION.

NOTE:- THIS ARRANGEMENT IS DRAWN FOR 'A' TYPE TRAILER CARS. 'D' TYPE TRAILER CARS ARE STRUCTURALLY IDENTICAL EXCEPT FOR SEAT RISER END WEBS AT END DOORWAY AS INDICATED 'D' TYPE TRAILER CARS ARE IDENTICAL IN EQUIPMENT LAYOUT ON REFERING TO BLOCK PLAN DRG 46396 IT WILL BE SEEN THAT THEY ARE REVERSED WHEN IN TRAIN FORMATION OF 4 CAR SEATS REFERENCE TO NORTH & SOUTH SIDES, EAST & WEST ENDS ON DRAWINGS REFERING TO 'A' & 'D' TRAILER CARS APPLY TO THEIR POSITION AS IN 4 CAR TRAIN SET.

1972 MK I & MK II TUBE STOCK

1967 TUBE STOCK

ARRANGEMENT OF UNDERFRAME STRUCTURE
TRAILER CARS TYPE A & D

SCALE:— 1½ INCHES TO A FOOT

LONDON TRANSPORT BOARD
CHIEF MECHL. ENGINEERS OFFICE

DRAWING Nº 46399 SHEET 3 OF 3 SHEETS

DATE 14-6-68.

OFFICE 475 | FILING 475

CONTRACTORS DRG. NO. 10076/102/F

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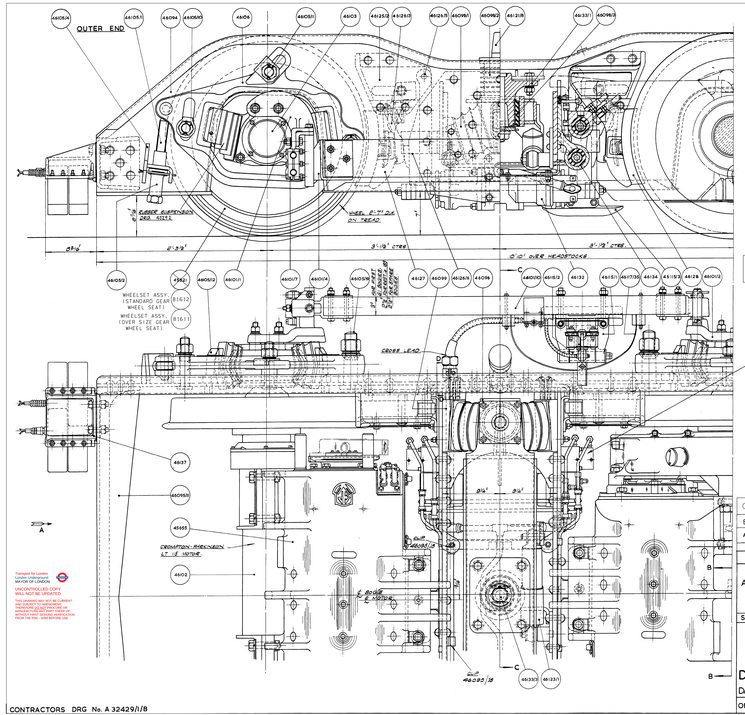

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C	VIC CRS 2032	A.S.D. 15-6-94
	BALLOON REF. B1611 & B1612 FOR WHEELSET ASSY. WAS 45321	
B	MOD 1117B DN 1602 SEE SHEET 3.	A.C. 19-11-90
A	NOTE ADDED RE: REPLACEMENT OF HYDRAULIC HAND BRAKE WITH S.A.P.B. MOD 1098 DN 1235	30-1-89

MODIFICATIONS

1967 TUBE STOCK

ARRANGEMENT OF MOTOR BOGIE (WITH HANDBRAKE) SHEET 1.

SCALE:- 3 INCHES TO A FOOT

LONDON TRANSPORT BOARD
CHIEF MECH^L. ENGINEERS OFFICE.

DRAWING No. 46091 SHEET 1 OF 2.

DATE. 24·10·67

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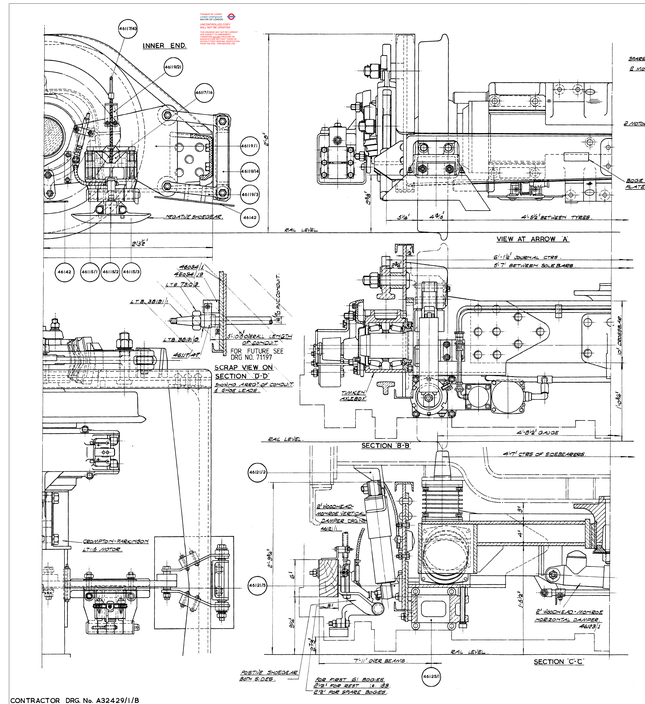
CONTRACTORS DRG No. A32429/1/B



A	DRG No. FOR SPRING APPLIED PARKING BRAKE ADDED MOD No. 1098 D/N No. 1235	30/1/89 M.T.K.
B	MOD 1117B DN 1602 SECTION D.D DELETED NOTE FOR FUTURE SEE DRG NO. 71191 ADDED.	A.C. 19-11-90
C	VIC CRS 2032 SEE SHEET 1	A.S.D. 15-6-94

MODIFICATIONS

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1967 TUBE STOCK

ARRANGEMENT OF MOTOR BOGIE (WITH HANDBRAKE) SHEET 2

SCALE:- 3 INCHES TO A FOOT

LONDON TRANSPORT BOARD

CHIEF MECH^L. ENGINEERS OFFICE.

DRAWING No. 46091 SHEET 2 OF 2.

DATE. 24·10·67

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CONTRACTOR DRG. No. A32429/1/B