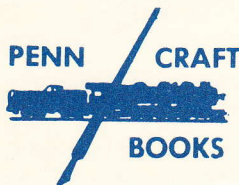


**RAILROAD
MODEL
CRAFTSMAN**

ROLLING STOCK MANUAL

**OF HO AND O GAUGE
CAR PLANS**

Edited by Harold H. Carstens
MANAGING EDITOR
RAILROAD MODEL CRAFTSMAN



John N. Torok Jr.

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FEASTERVILLE PA

1961

ROLLING STOCK MANUAL

OF HO AND O GAUGE CAR PLANS

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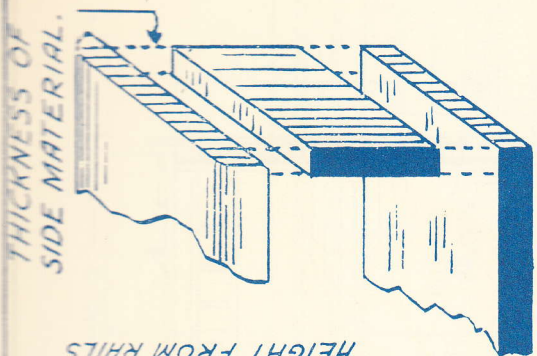
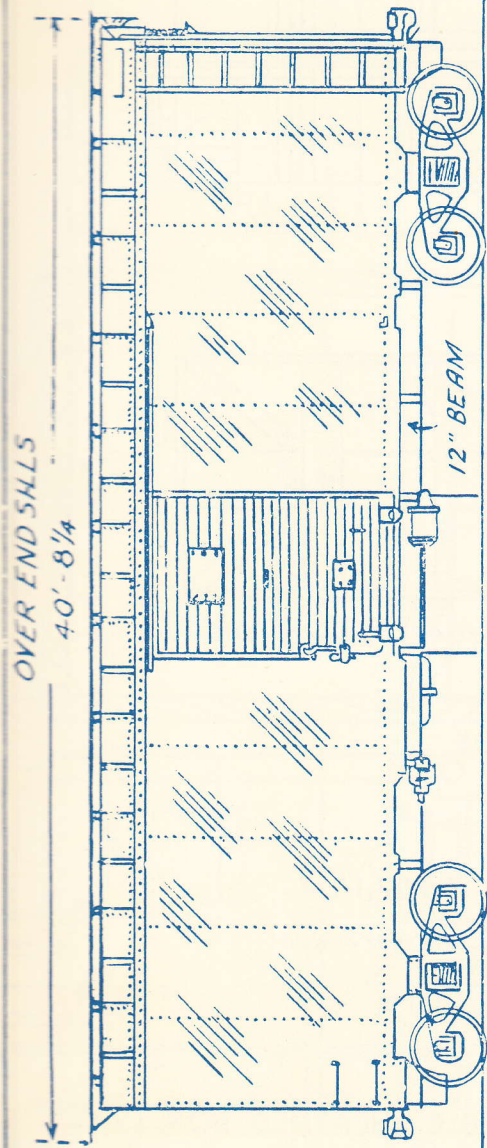
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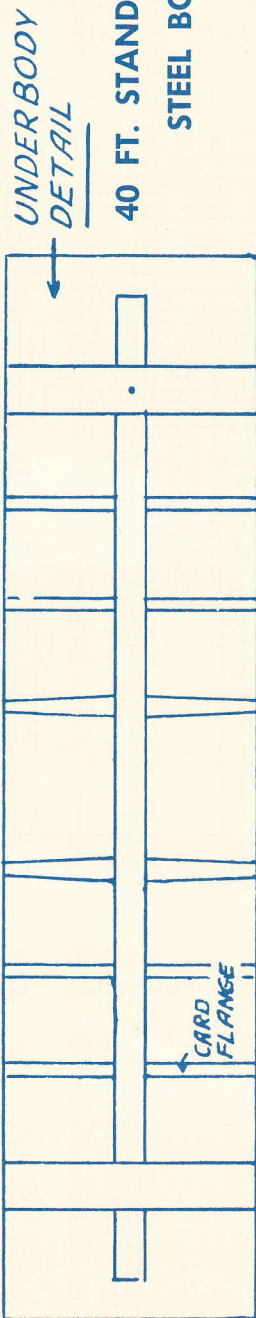
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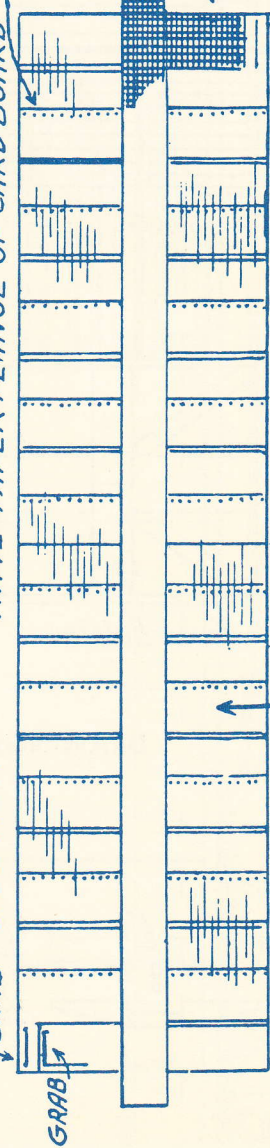
ASSEMBLE AS ABOVE
SIDES GO ON LAST

Note~
FOR HO PLAIN CARBOARD SIDES MAY BE USED WITH STAMPED
DOORS. EITHER DOT IN THE RIVETS OR PENCIL THE LINES & SCRIBE.



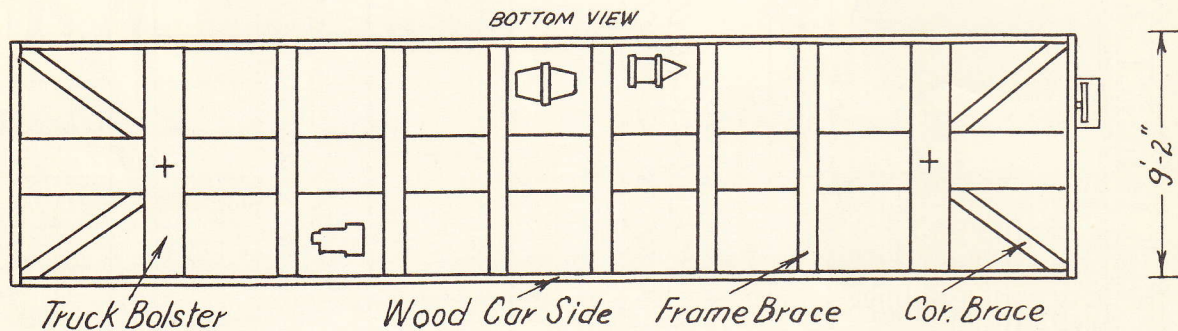
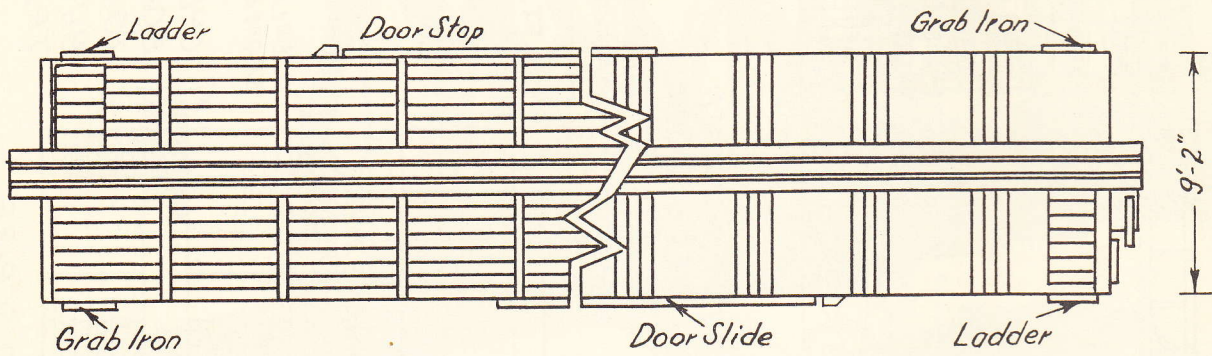
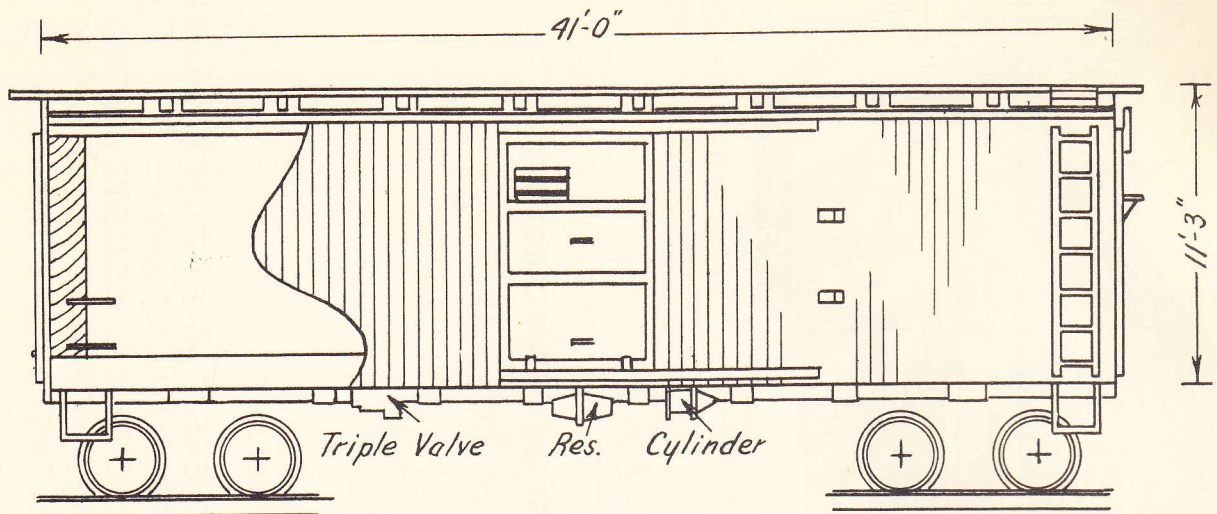
40 FT. STANDARD ROUND ROOF STEEL BOX CAR

THESE CROSS BEAMS SAME EXCEPT
HAVE TAPER FLANGE OF CARD BOARD

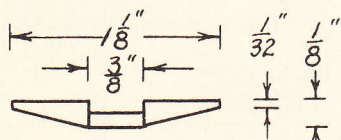


"CHECKERED" APEX TYPE RUNNING
BOARD ALSO END WALK.
TO CONSTRUCT: CEMENT TINFOIL
BACKED PAPER TO WOOD STRIP.
TRIM THEN SCORE THE CHECKS.

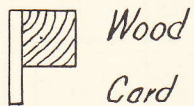
ROOF
DETAIL



DRAWINGS SHOWN FULL SIZE FOR HO SCALE



DOOR SLIDE

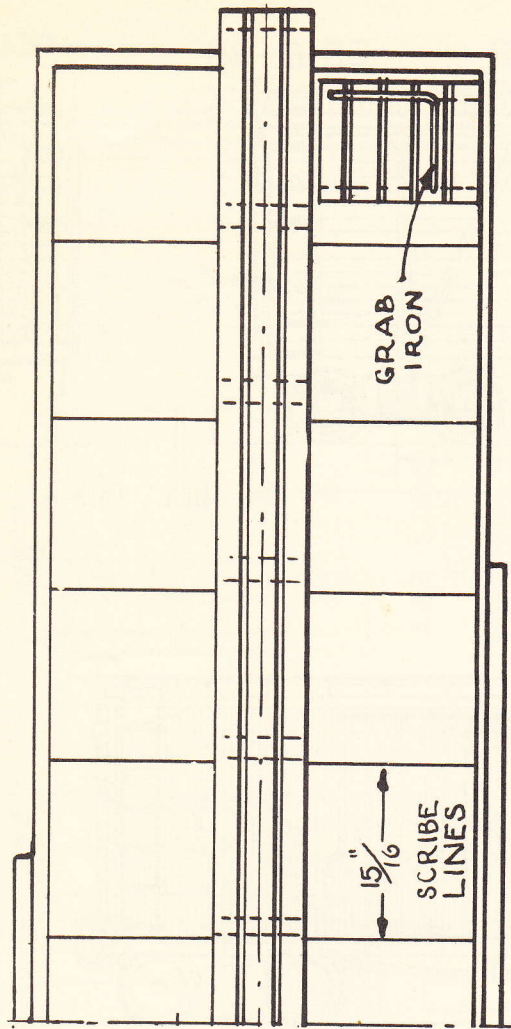
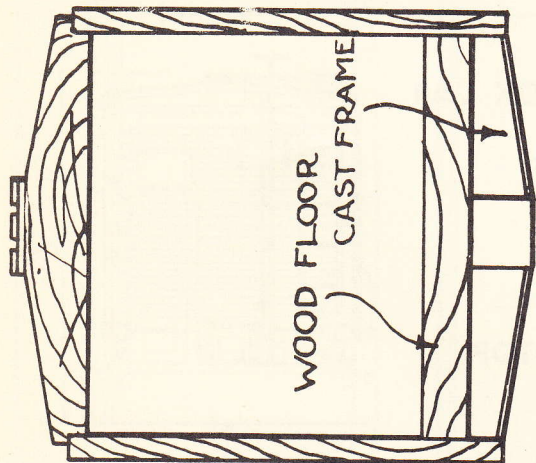
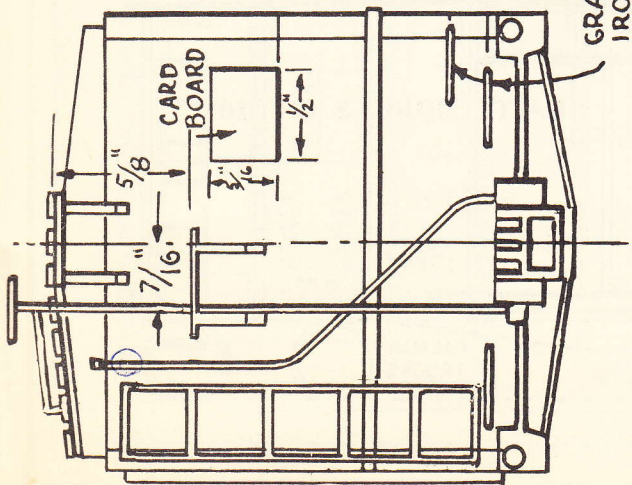


DOOR STOP

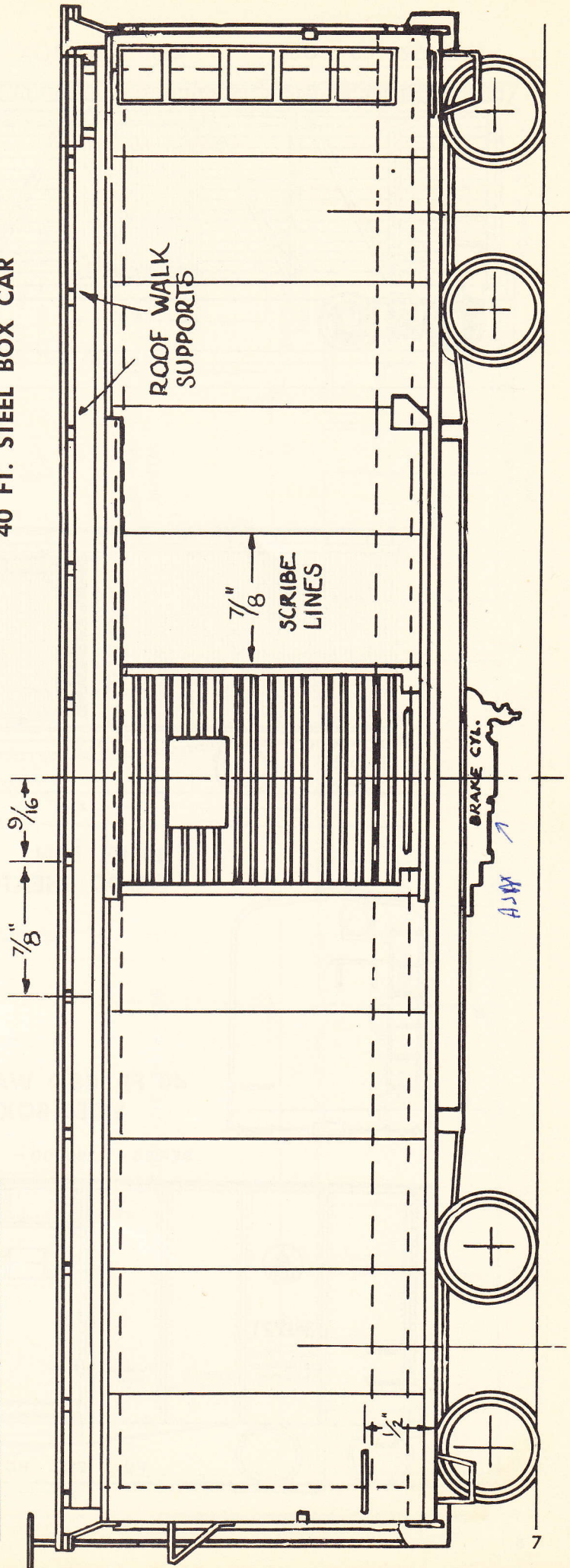
FIGS. 5E6, NOT SCALED

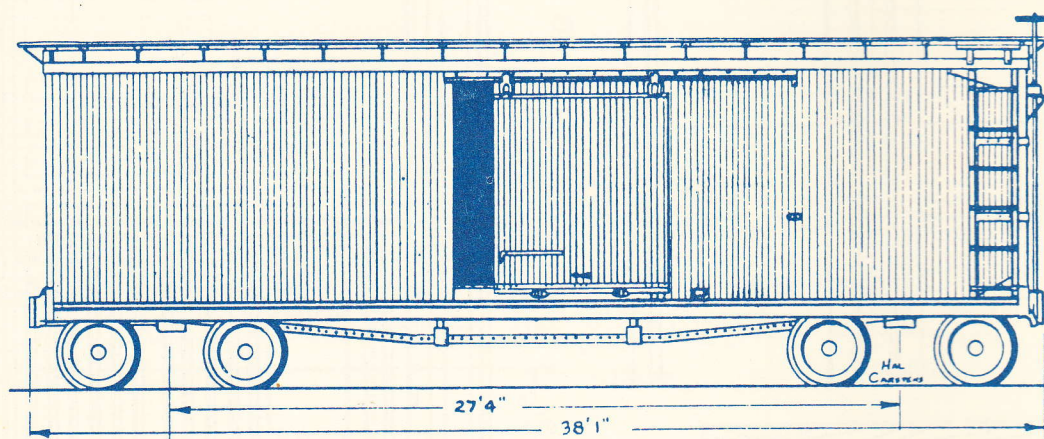
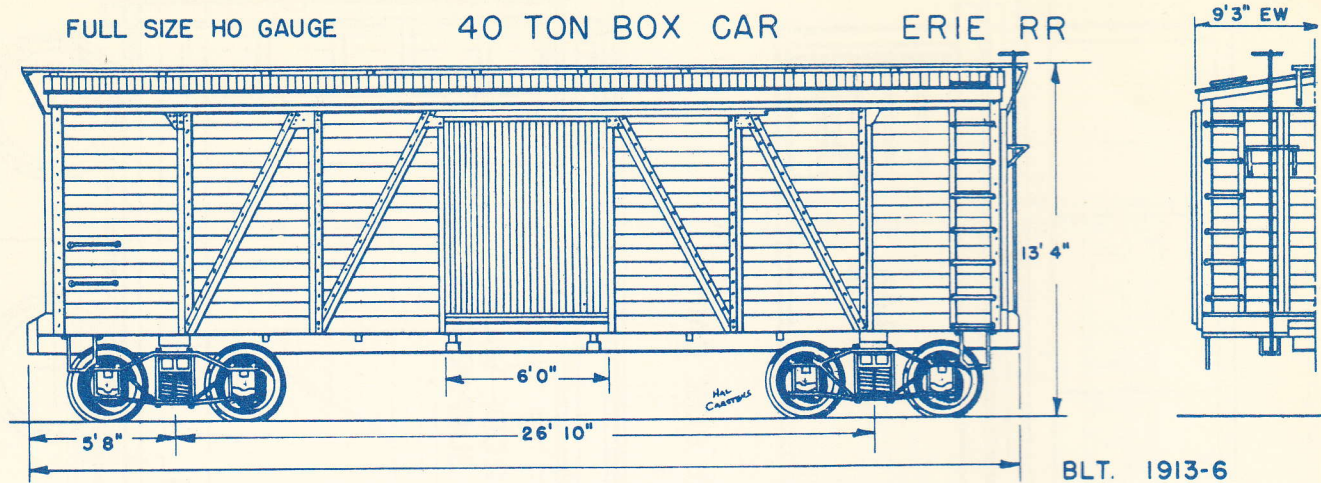


40 FT. WOOD DOUBLE SHEATHED BOX CAR

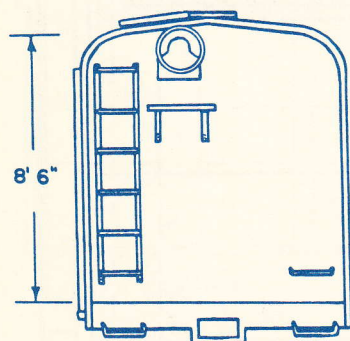


40 FT. STEEL BOX CAR

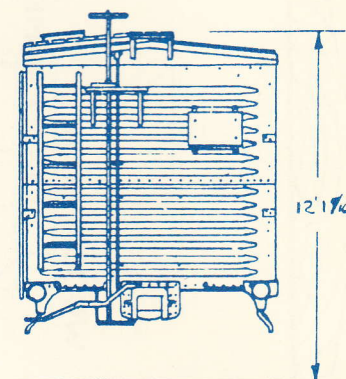




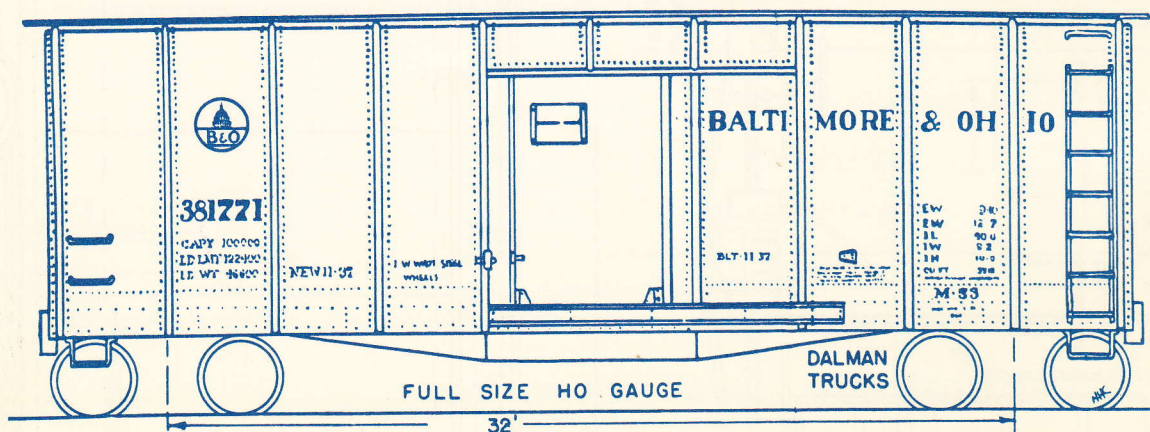
40 FT. L&N
WOOD SHEATHED BOX CAR



40 FT. B&O WAGON TOP
STEEL BOX CAR

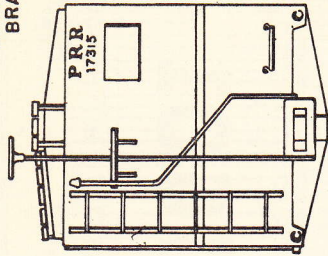


SERIES - 380000 - 381999



ROOFWALK - 1/32" WOOD

COUPLER POCKET (2)
BRASS OR CARD



ROOF - PINE 1/4"

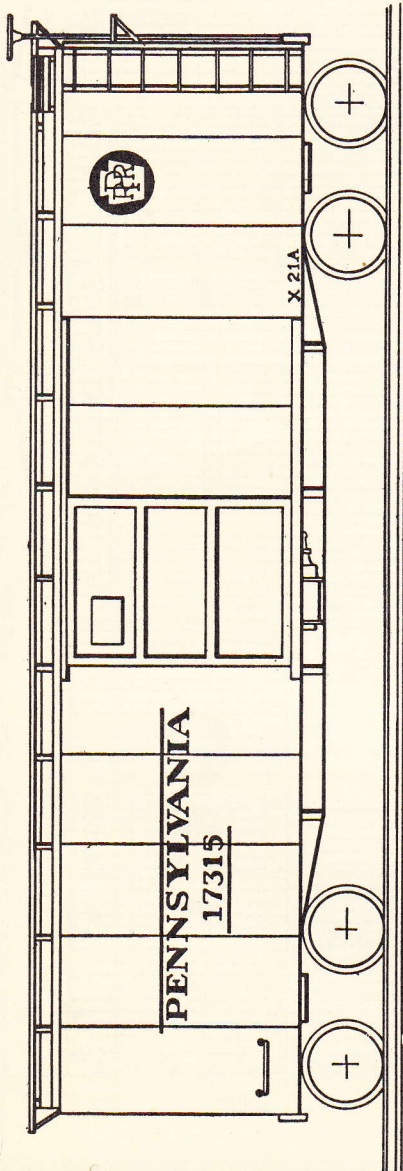


AAR STANDARD 40' STEEL STEEL BOX CAR

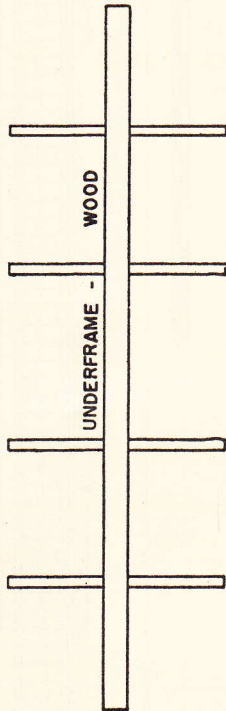
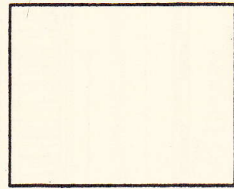
FULL SIZE HO GAUGE
ALL PARTS SHOWN FULL SIZE

DESIGN BY C.K. FOCHT
PAINT BOX CAR RED
LETTER WITH DECALS

Holmes



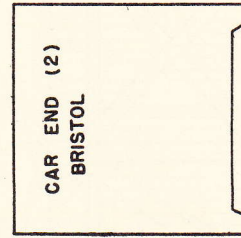
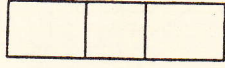
END BLOCK (2) - WOOD



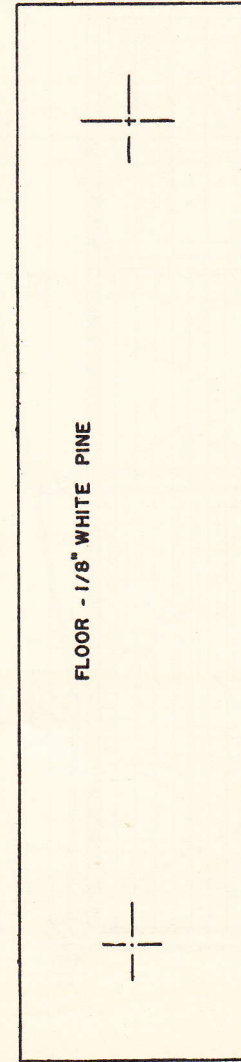
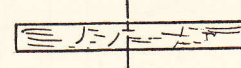
UNDERFRAME - WOOD



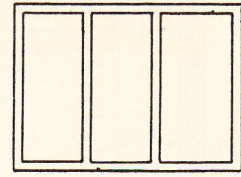
BOLSTER (2) - WOOD
PLATE



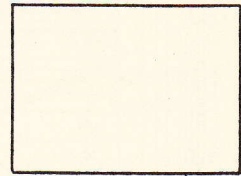
CAR END (2)
BRISTOL



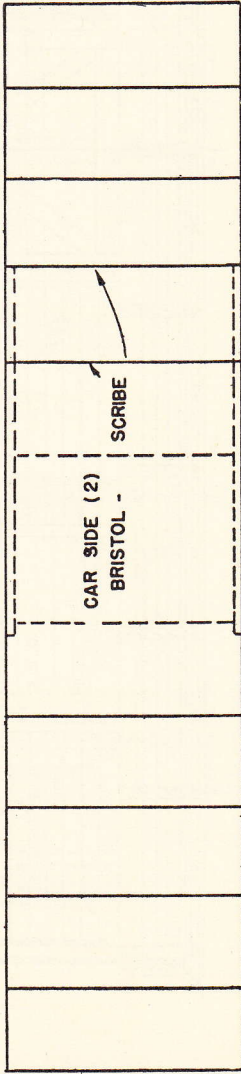
FLOOR - 1/8" WHITE PINE



BRAKE PLATFORM - CARD



DOOR & TRIM (2)
BRISTOL

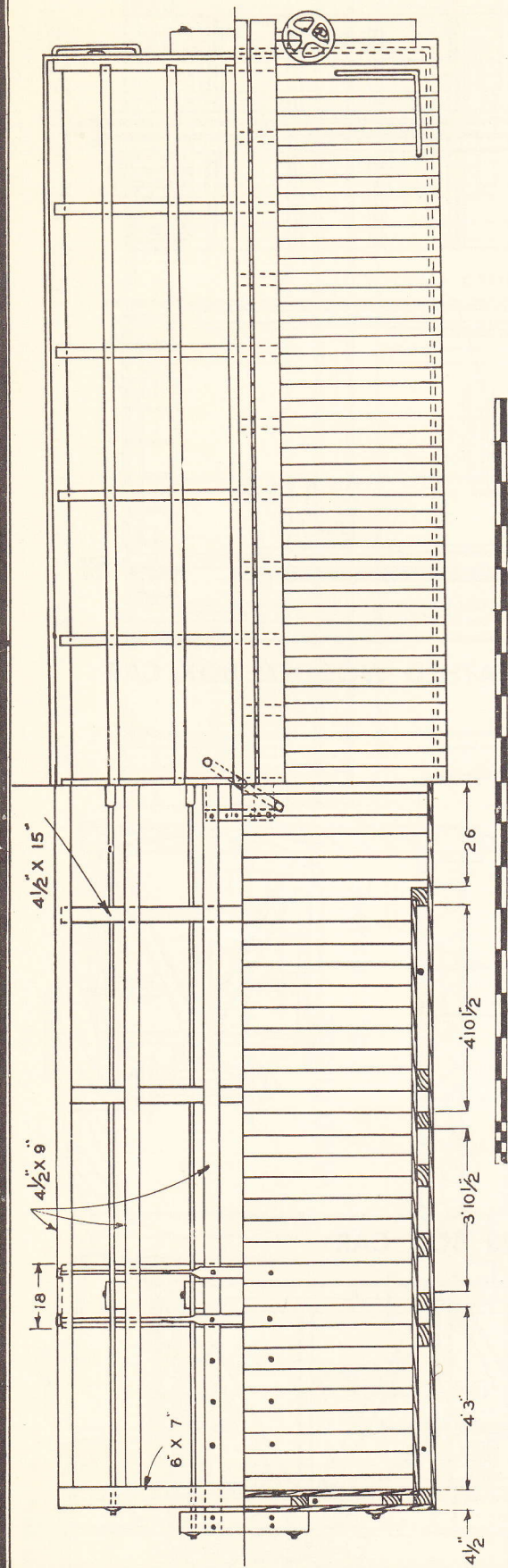


CAR SIDE (2)
BRISTOL -

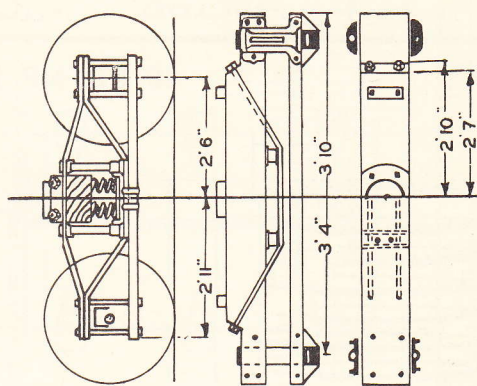
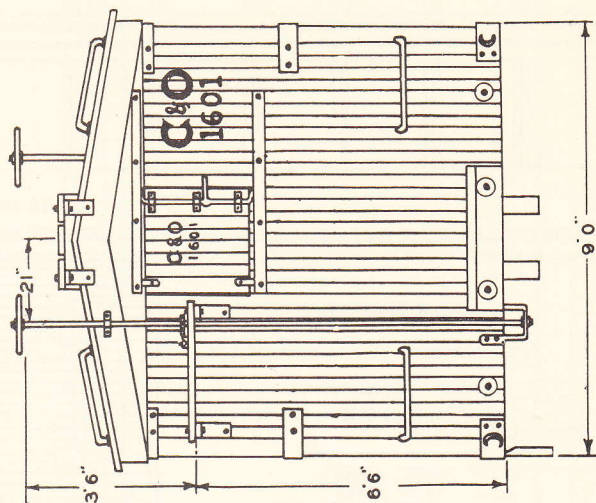
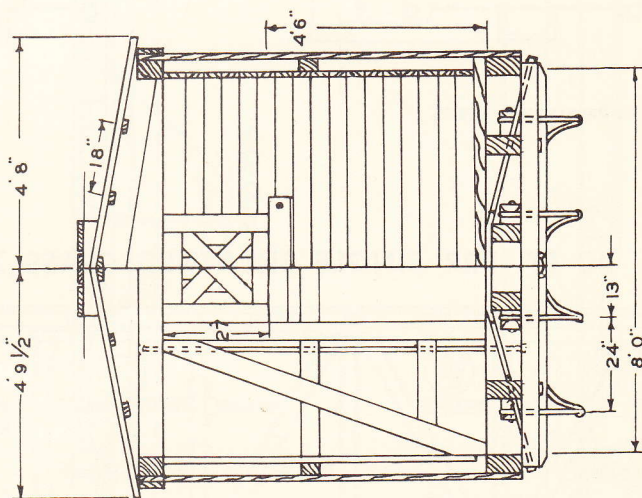
SCRIBE

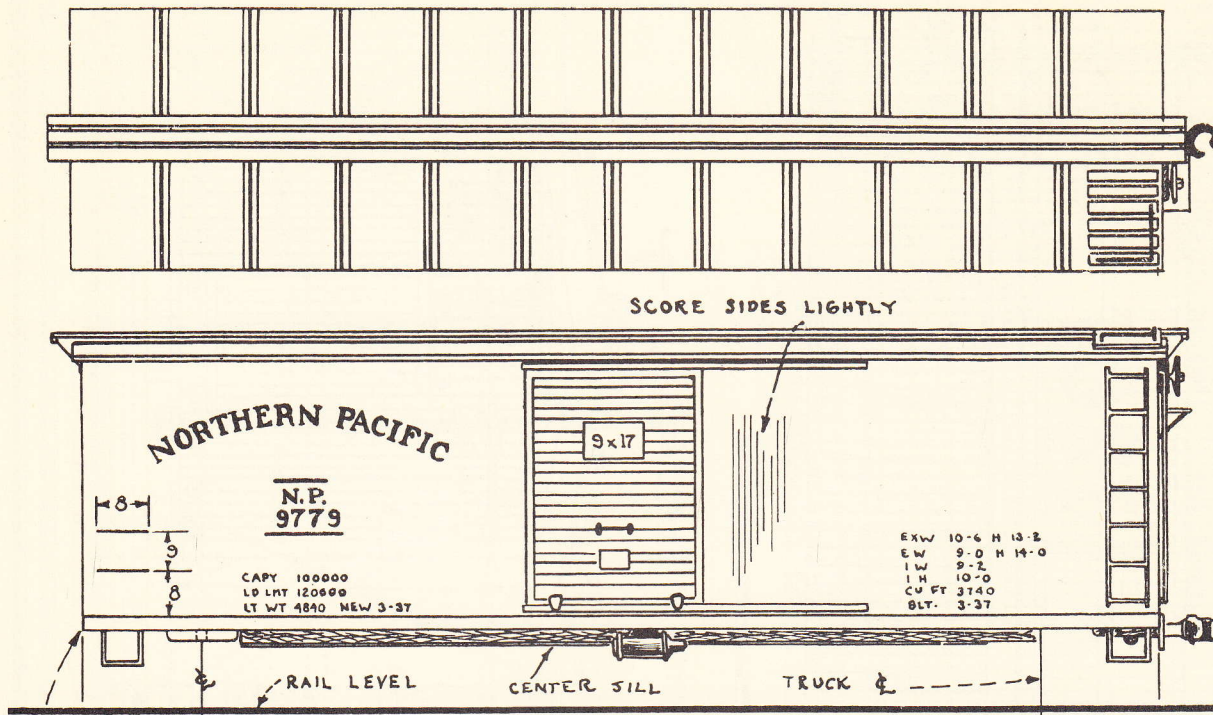
ENDWALK (2) - WOOD



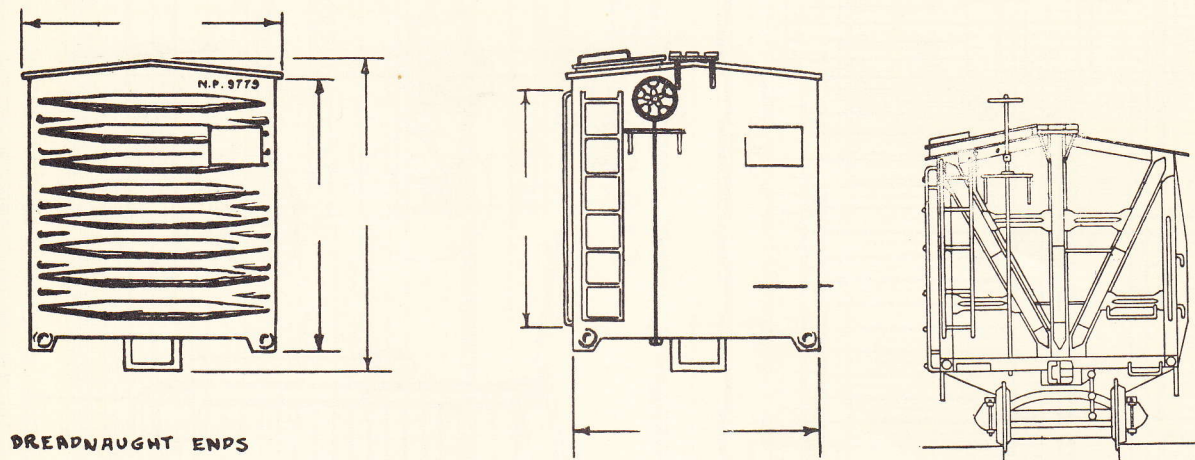


SCALE
C & O COAL AND GRAIN
BOX CAR
1886

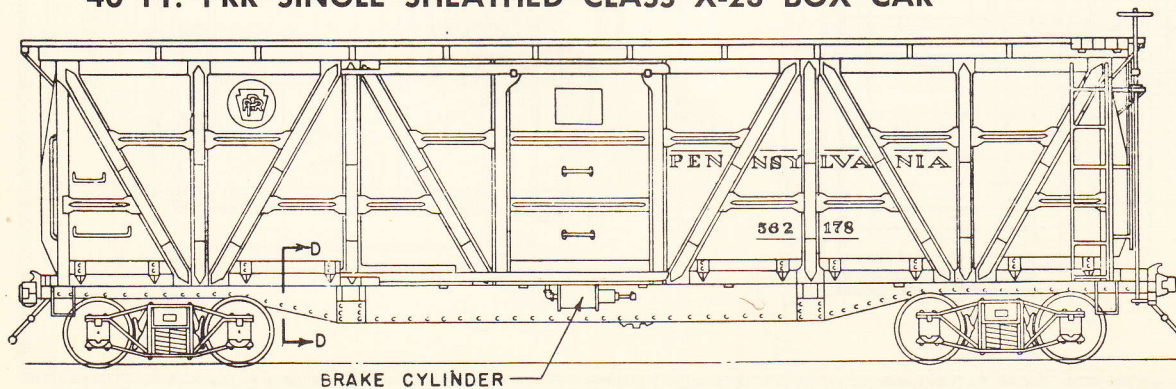




40 FT. NP DOUBLE SHEATHED WOODEN BOX CAR

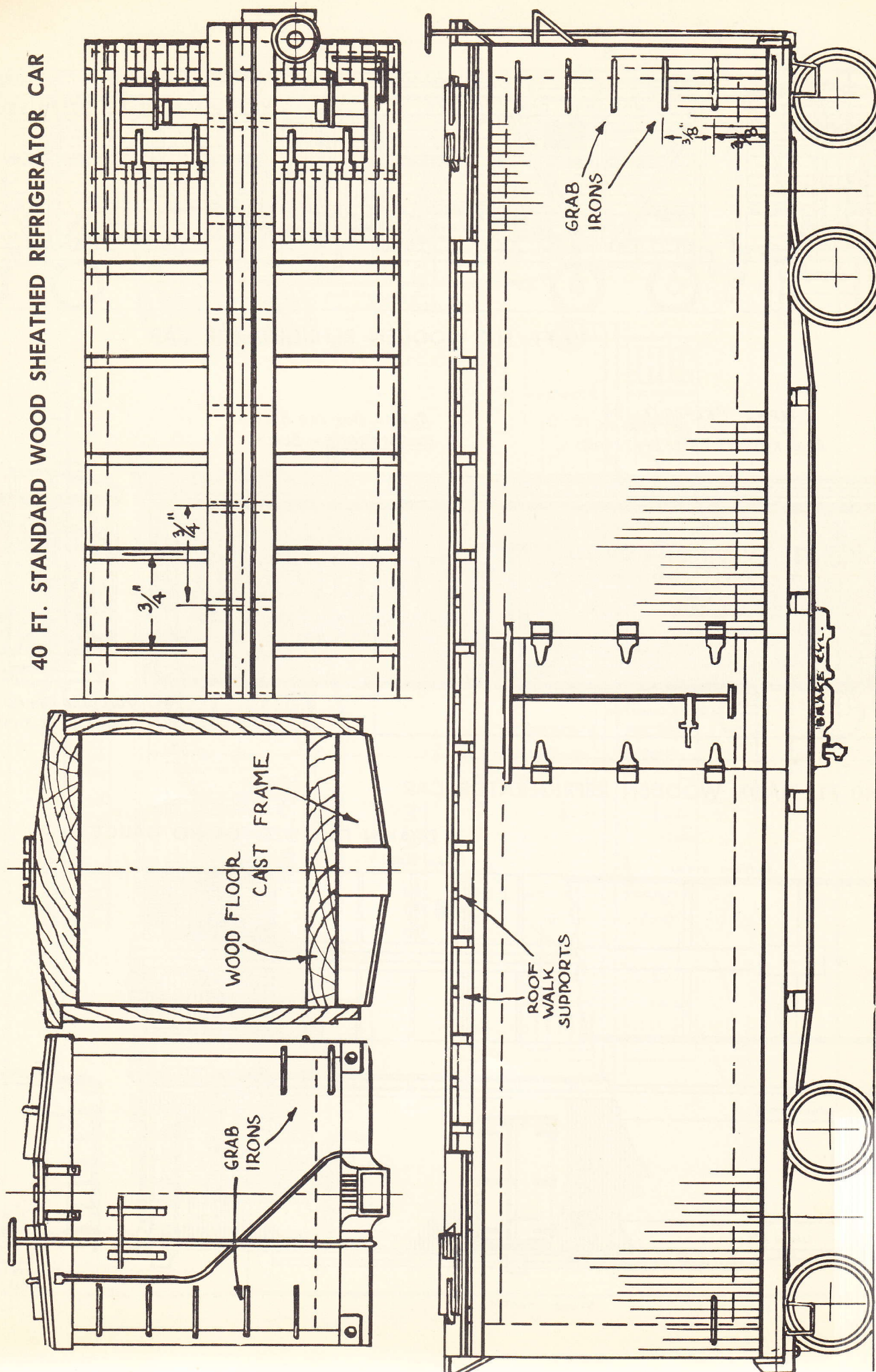


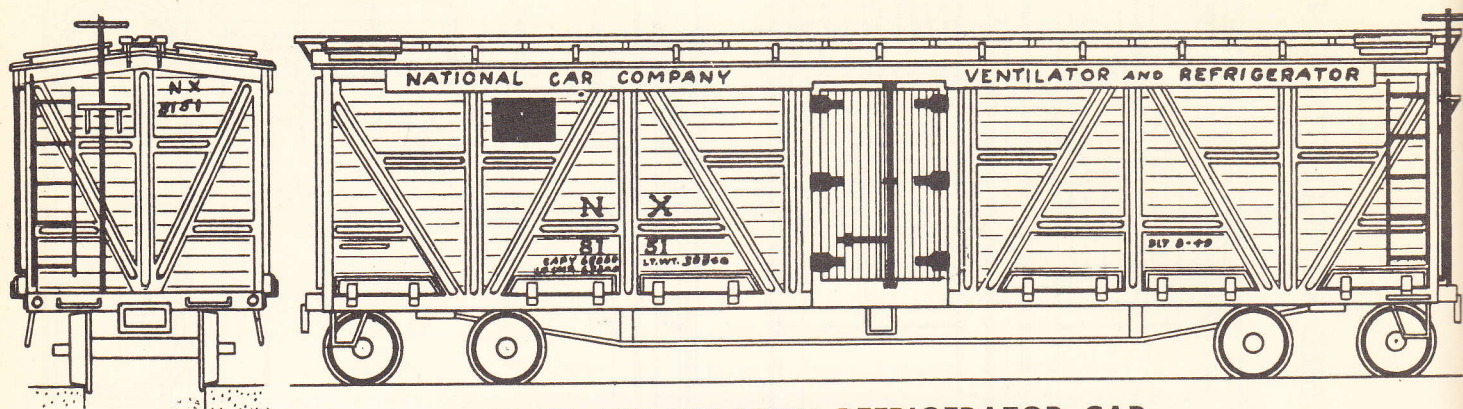
40 FT. PRR SINGLE SHEATHED CLASS X-23 BOX CAR



FULL SIZE O GAUGE

40 FT. STANDARD WOOD SHEATHED REFRIGERATOR CAR

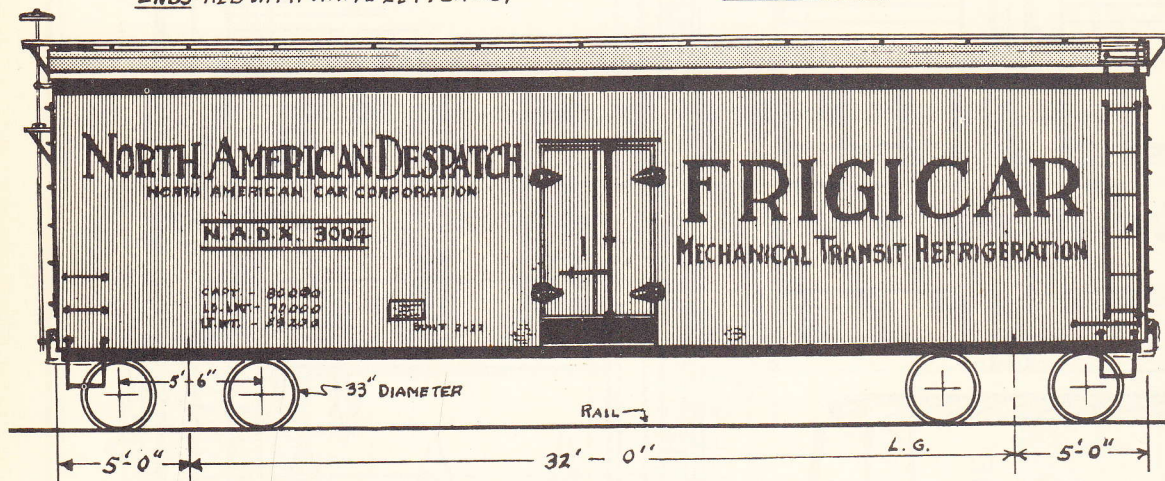




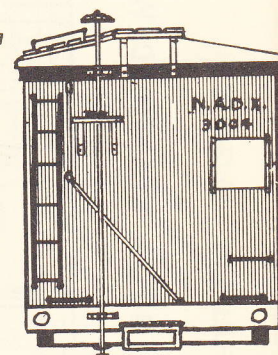
40 FT. NX WOODEN REFRIGERATOR CAR

SIDES - REEFER YELLOW
WITH BLACK LETTERING;
ENDS - RED WITH WHITE LETTERING;

ROOF - BOX-CAR RED;
UNDERFRAME - BLACK.

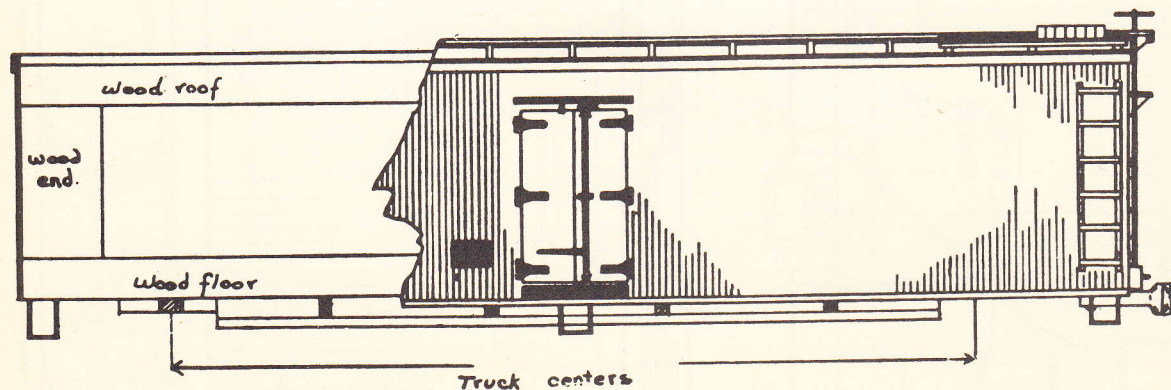
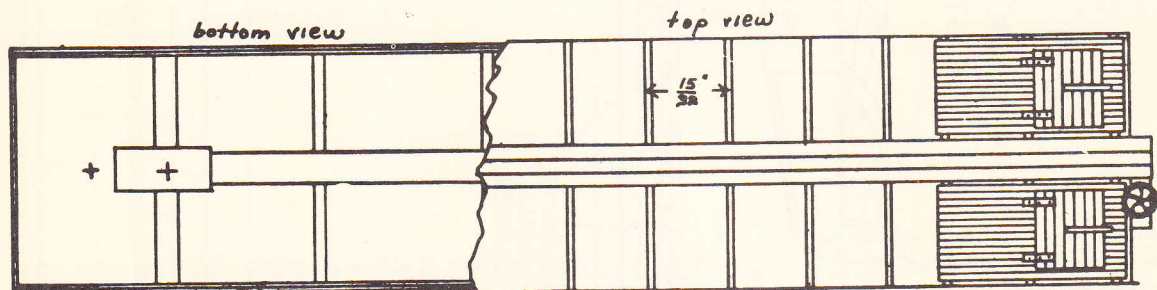


40 FT. NADX WOODEN REFRIGERATOR CAR



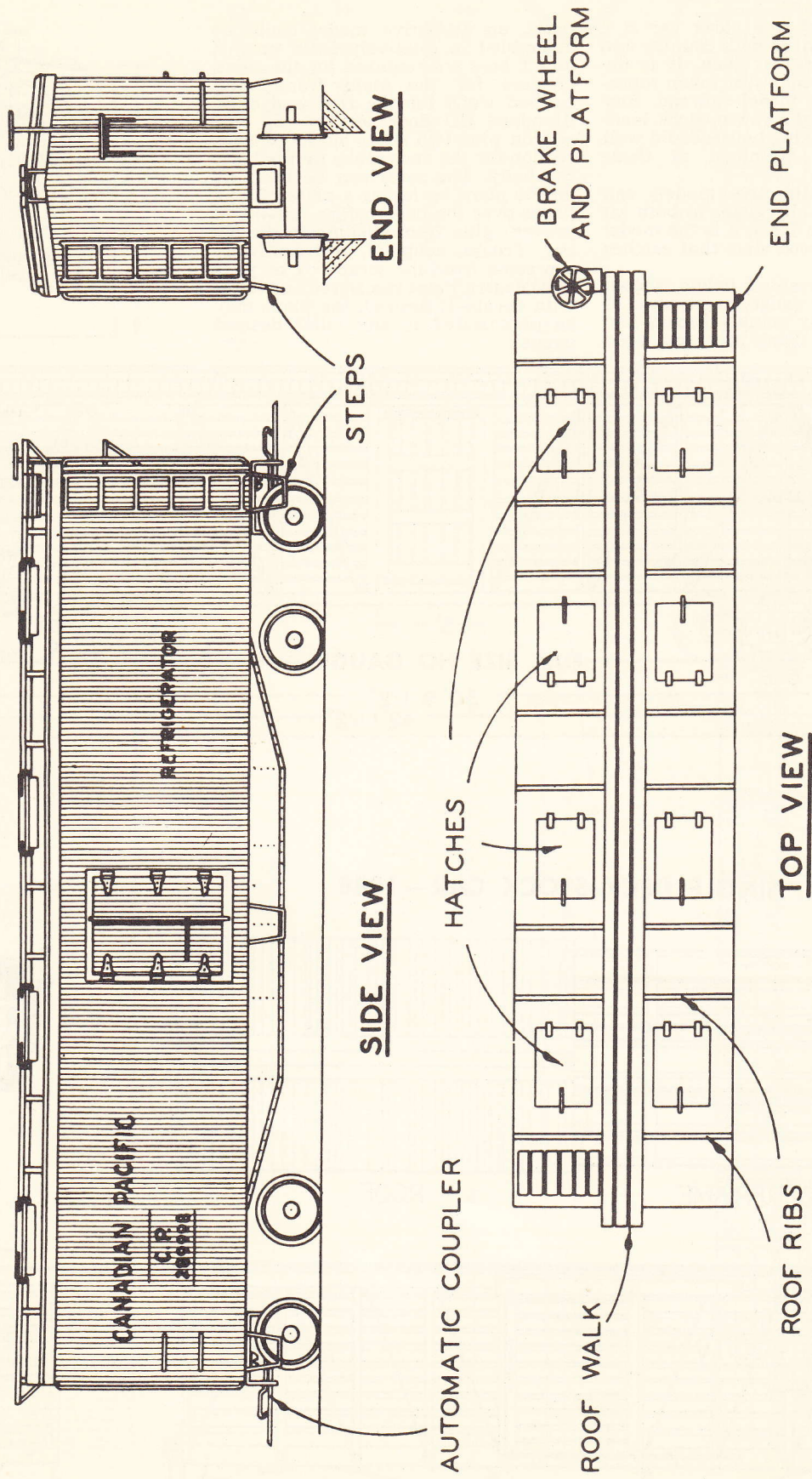
FULL SIZE FOR HO GAUGE
SCALE: 3.5 MM.=1'-0"

DRAWN FULL SIZE FOR HO GAUGE



40 FT. CPR WOOD SHEATHED 8 HATCH REFRIGERATOR CAR

FULL SIZE FOR HO GAUGE



AUSTIN

STOCK CAR

40 Ton S. D. Stock Car
Series 41000-41273

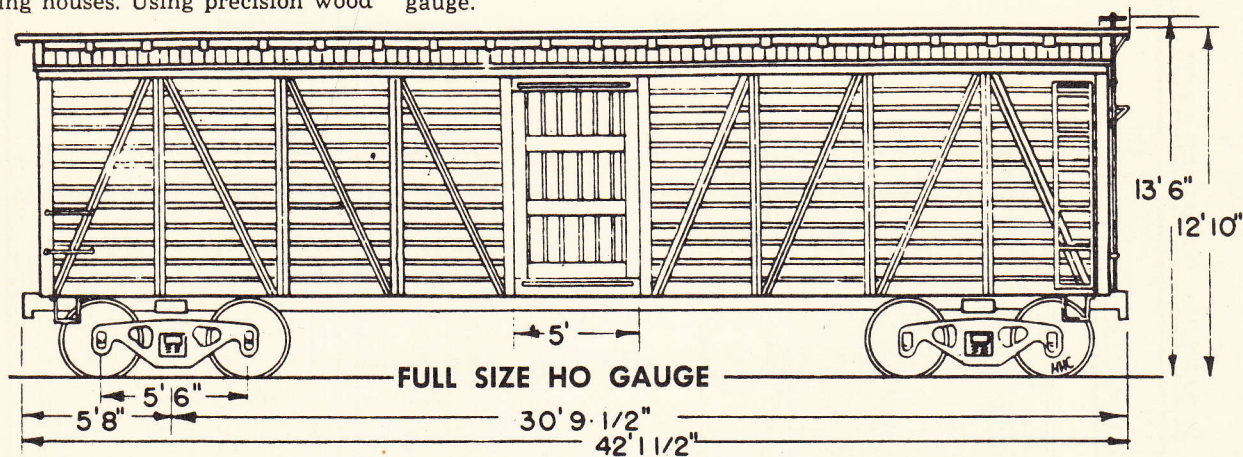
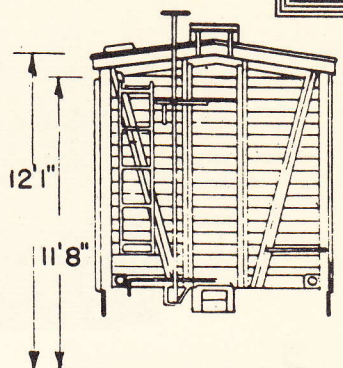


EAST or West, the stock car is a familiar sight to both country and city dwellers. As such, it is deserving of more than just token representation on any model railroad. Any layout boasting of a ranch, stock loading pen, or a packing house, could well afford a short trainload of these unique cars.

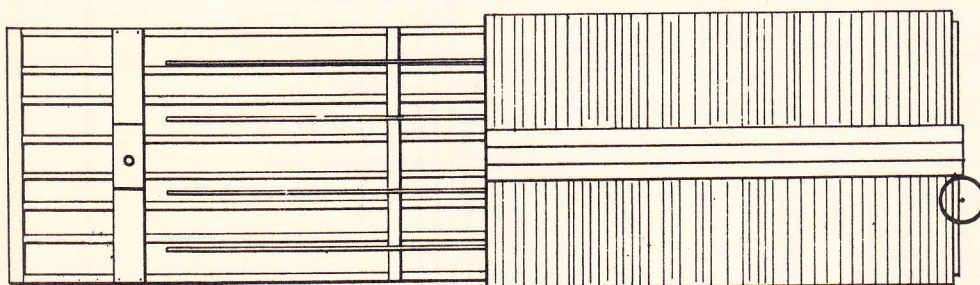
While very attractive models can be purchased in all gauges in both kit and ready to run form, it is the model built up from wood slats that catches the eye.

The plans presented below, shown full size for HO gauge, are typical of those operated by many railroads and packing houses. Using precision wood

parts, an attractive model could be assembled in relatively little time. Z and T bars are required for the sides, channel for the main frame, and scribed wood for the roof and ends. Standard HO floor section and roof section plus two short blocks of floor section for the ends make up the basic car body. The sides can be built up on the plans by laying a piece of wax paper over the page before starting to prevent glue from sticking to the paper. Trucks, couplers, and hardware can come from the scrap box or your local dealer. Paint tuscan red and letter with decals. If desired, the plans may be photostated to any other desired gauge.

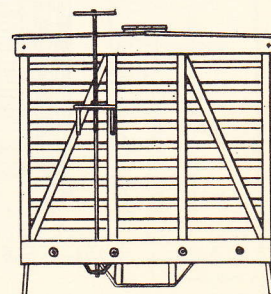
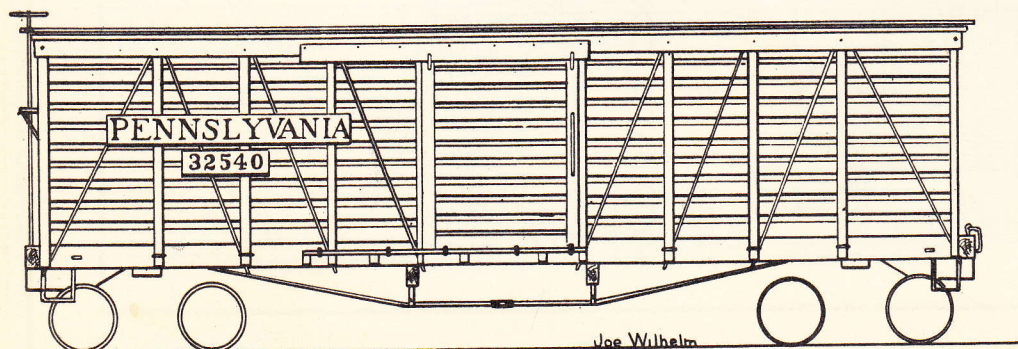


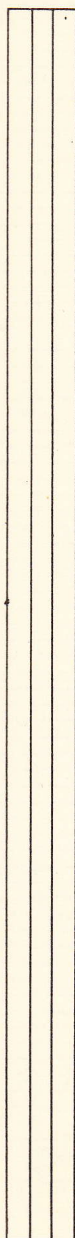
38 FT. SINGLE DECK STOCK CAR — 1888



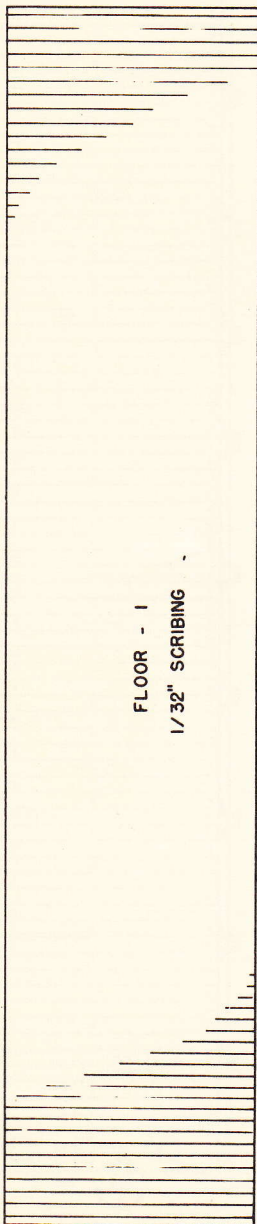
UNDERFRAME

ROOF

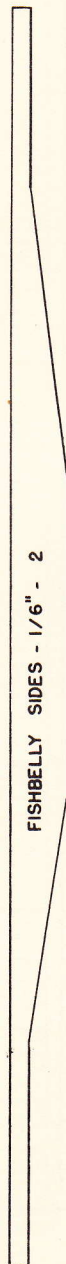




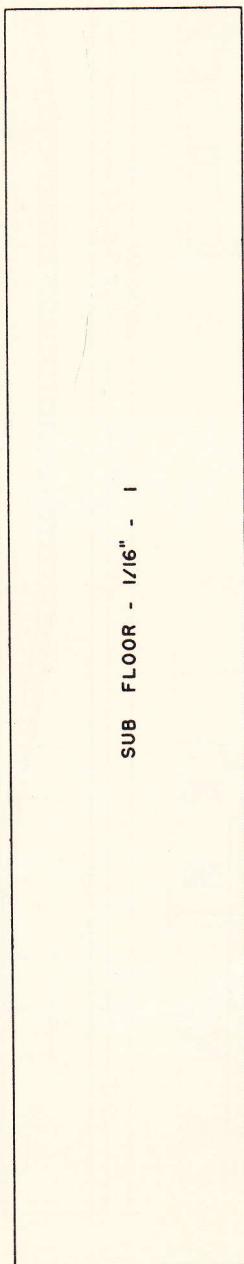
SIDES - 2 - 1/16"



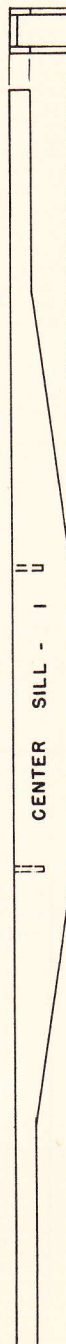
FLOOR - 1
1/32" SCRIBING



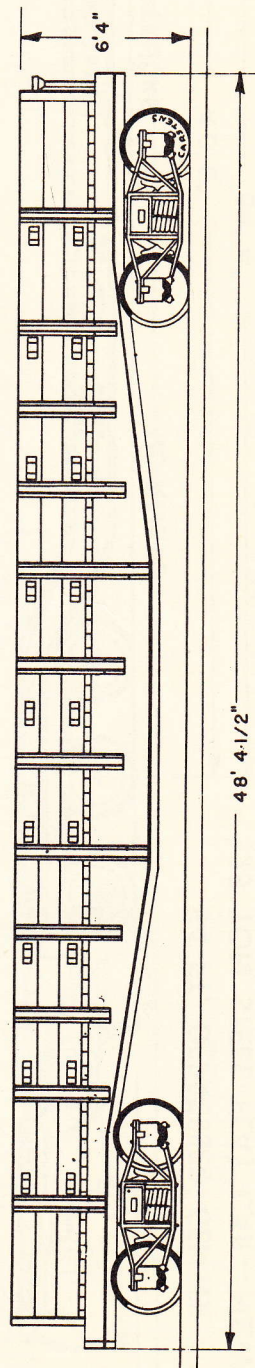
FISHBELLY SIDES - 1/6" - 2



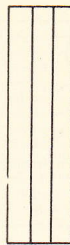
SUB FLOOR - 1/16" - 1



CENTER SILL - 1 1/2"



48' 4 1/2"



ENDS - 2
1/16"



END SILLS - 2
(CAN BE CASTINGS)

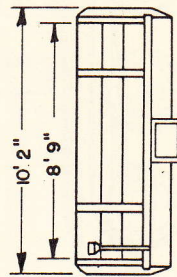
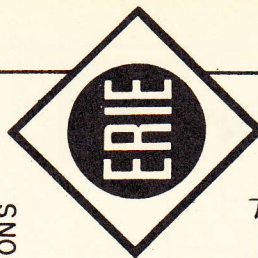


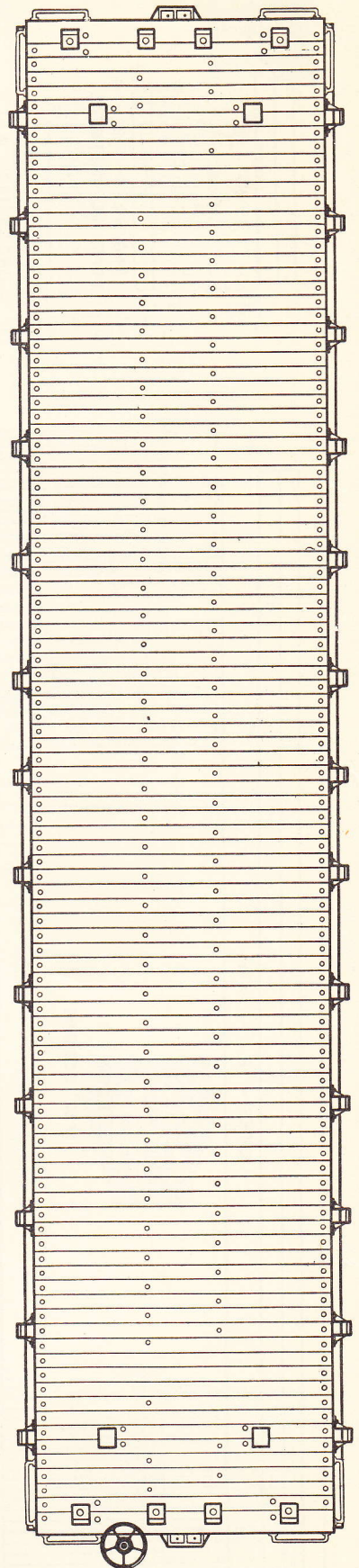
CROSSRIBS - 4
2 PER SIDE

48 FT. DROP END WOOD SIDE ERIE GONDOLA

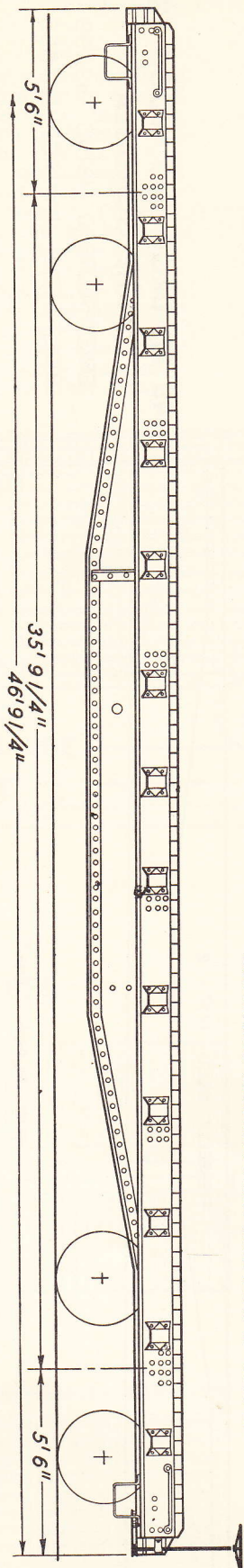
ERIE RAILROAD 18700 - 19699
BUILT 1916 BY ACF & SSC

USE ANDREWS SIDE FRAMES FOR
PRESENT DAY OPERATIONS

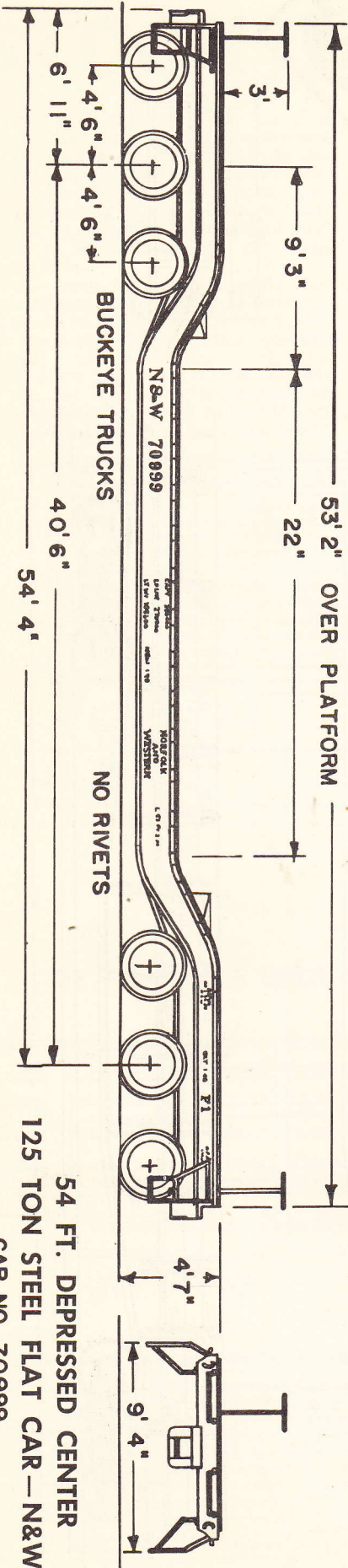
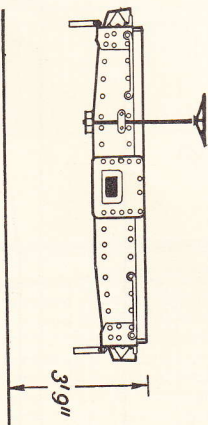




DRAWING SHOWN FULL SIZE FOR S GAUGE



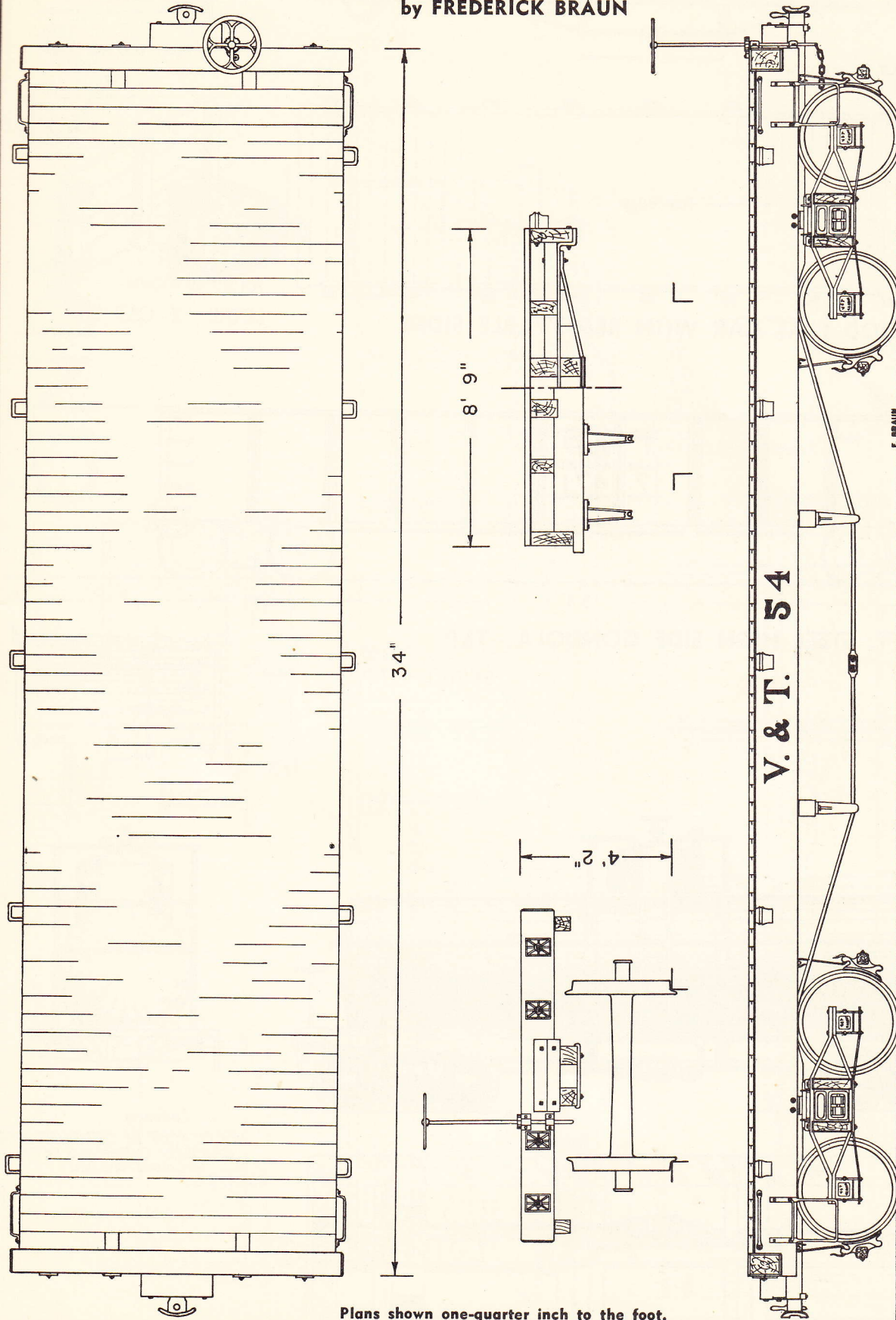
46 FT. STEEL FLAT CAR



54 FT. DEPRESSED CENTER
125 TON STEEL FLAT CAR—N&W
CAR NO. 70999

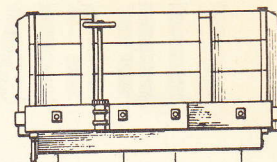
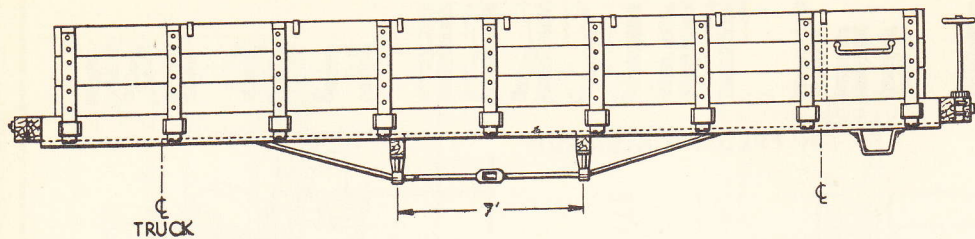
VIRGINIA and TRUCKEE FLAT CAR

by FREDERICK BRAUN

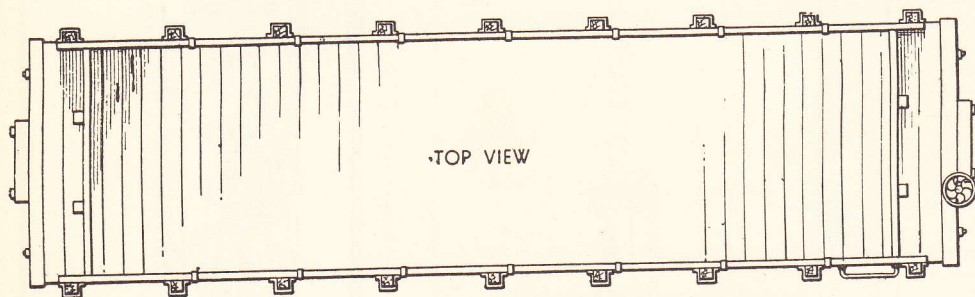


Plans shown one-quarter inch to the foot.

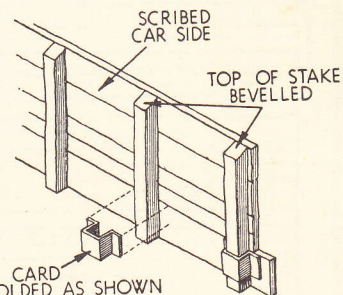
VIRGINIA & TRUCKEE
BUILT BY DETROIT CAR WORKS—1875



TRUSS ROD PEDESTALS

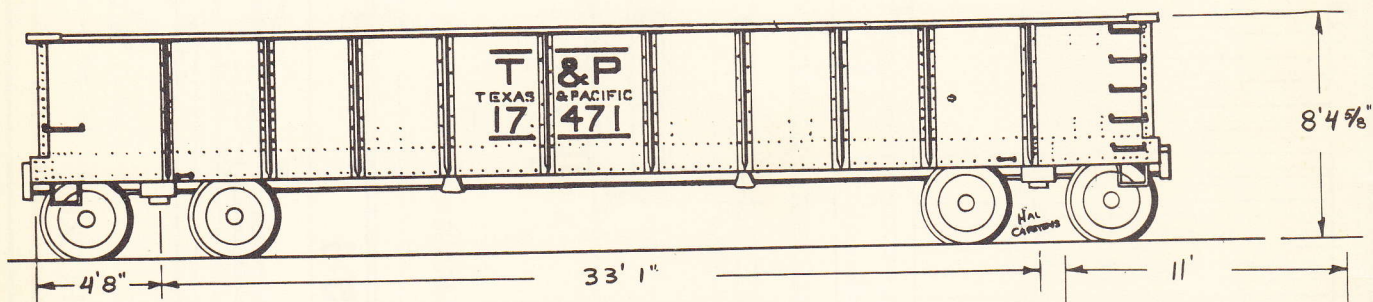


TOP VIEW



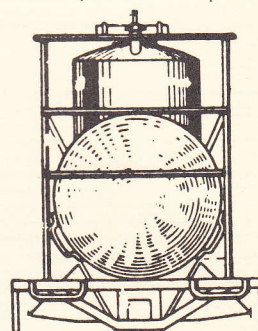
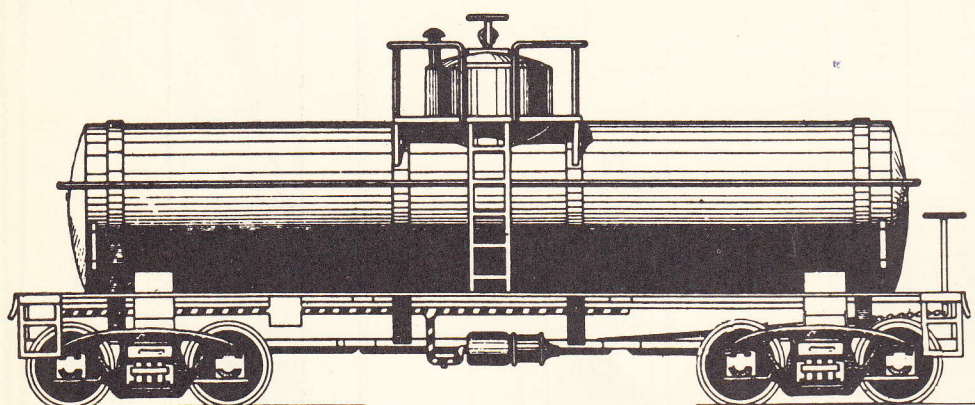
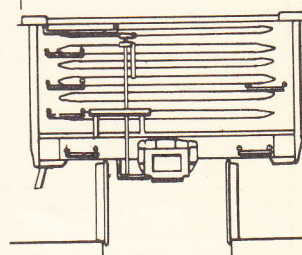
DETAIL OF CAR SIDE

36 FT. WOOD FLAT CAR WITH REMOVABLE SIDES

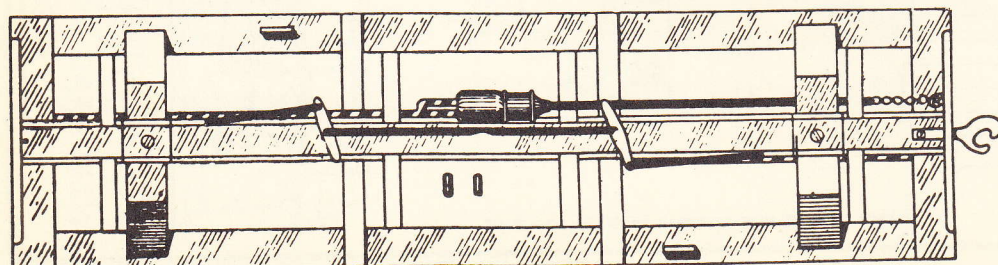


42 FT. STEEL HIGH SIDE GONDOLA — T&P

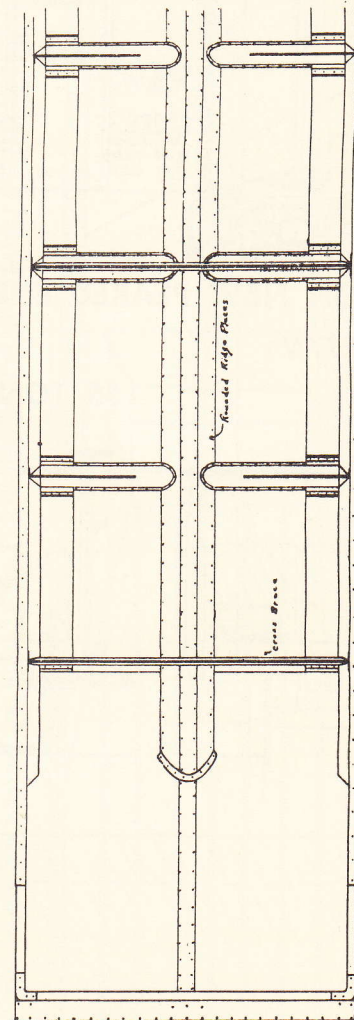
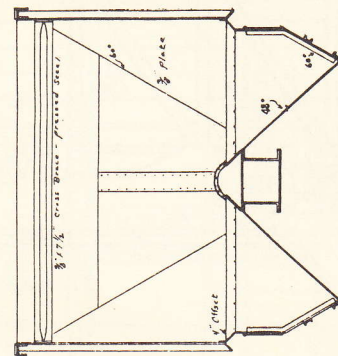
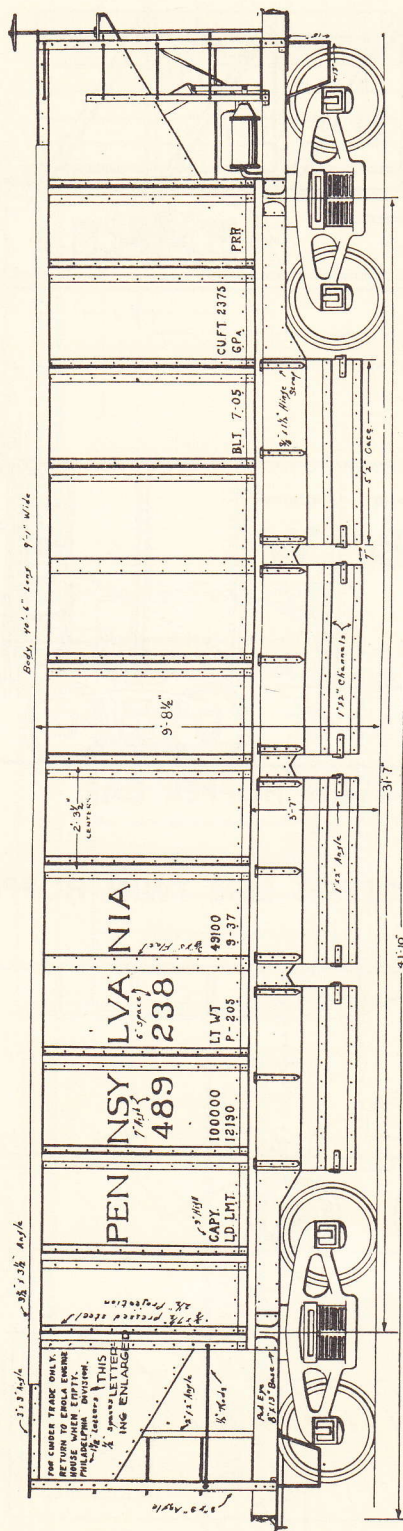
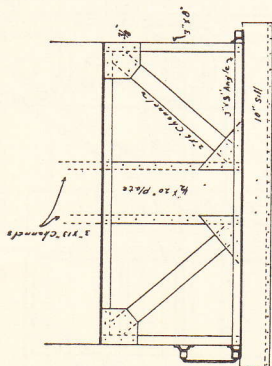
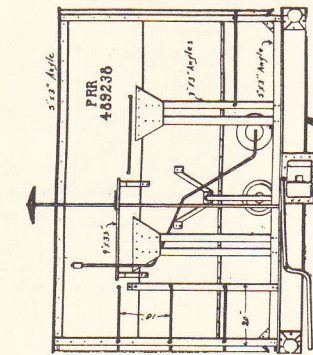
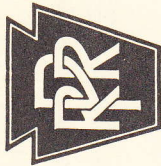
SERIES = 17000 - 17749



Lettering
E.I. DU PONT DE NEMOURS & CO.
GRASSELLI CHEMICALS DEPT.
WILMINGTON, DEL
DUPX 5155

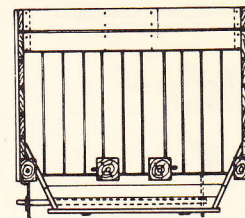
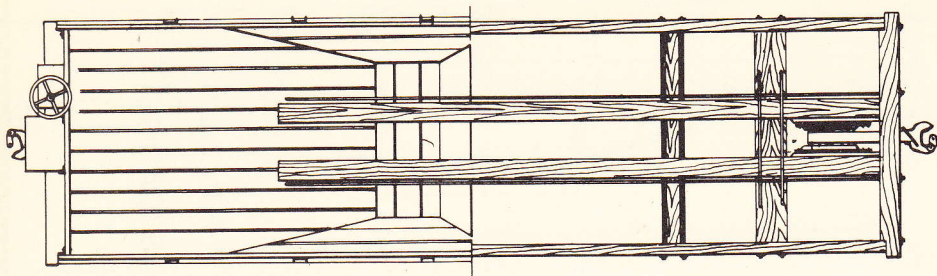


CINDER CAR

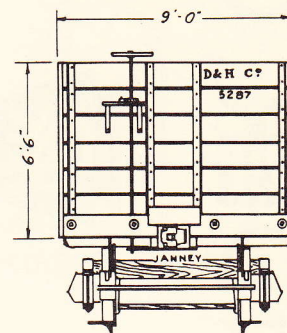
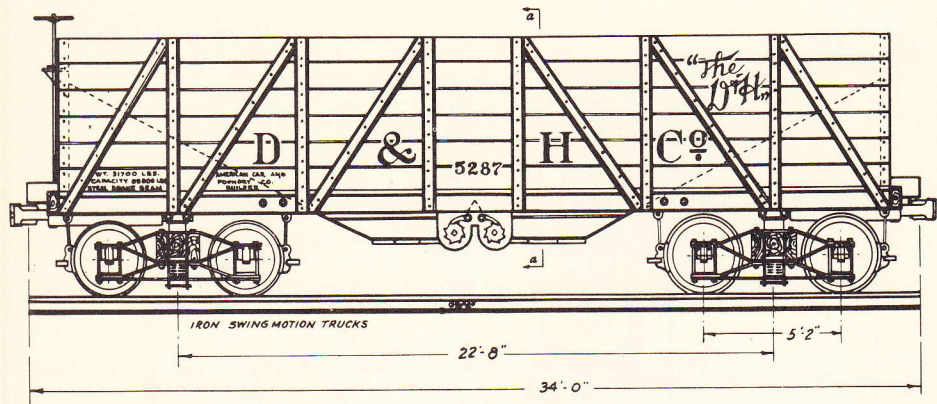


Full Size
S GAUGE

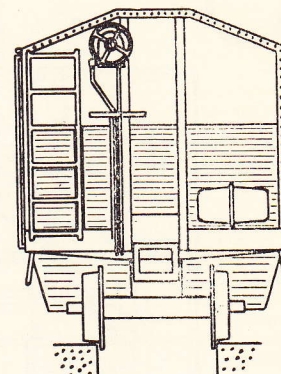
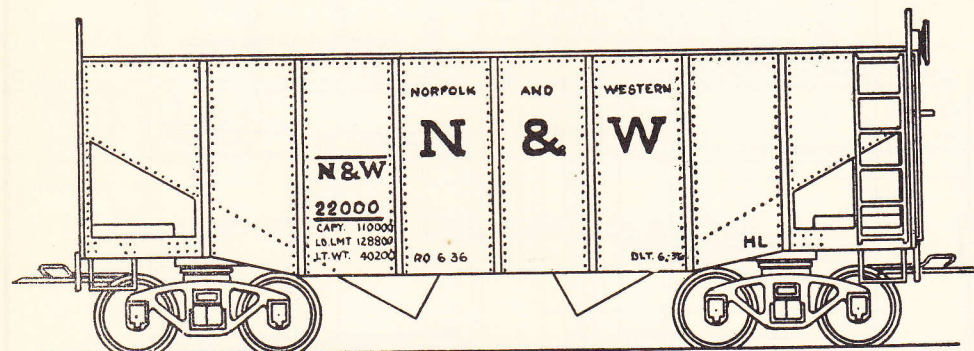
42 FT. STEEL CINDER CAR — PRR



Section a-a



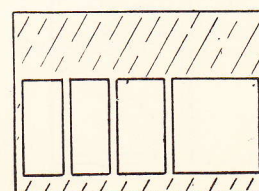
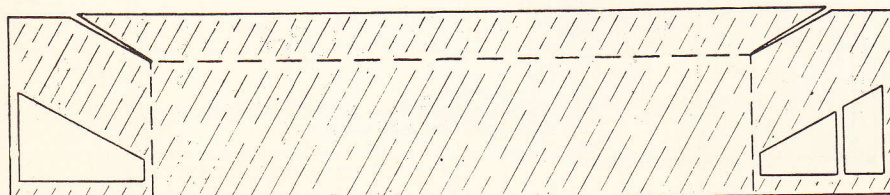
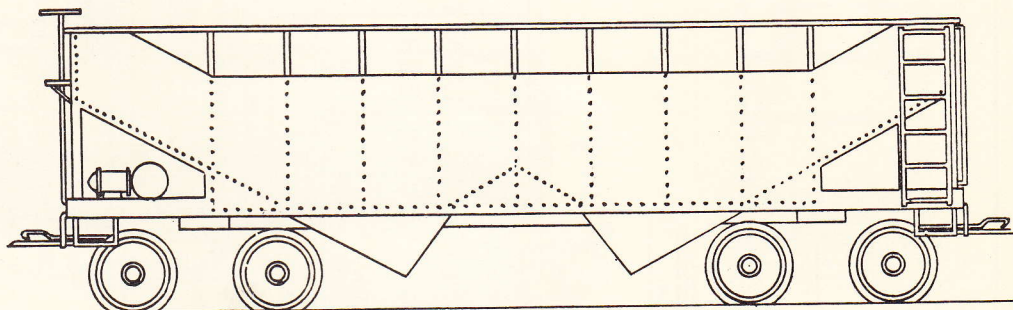
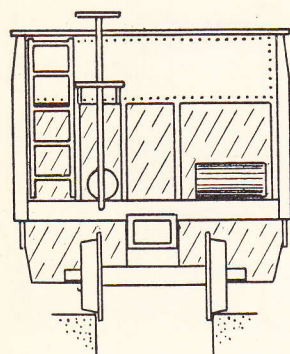
FULL SIZE HO GAUGE



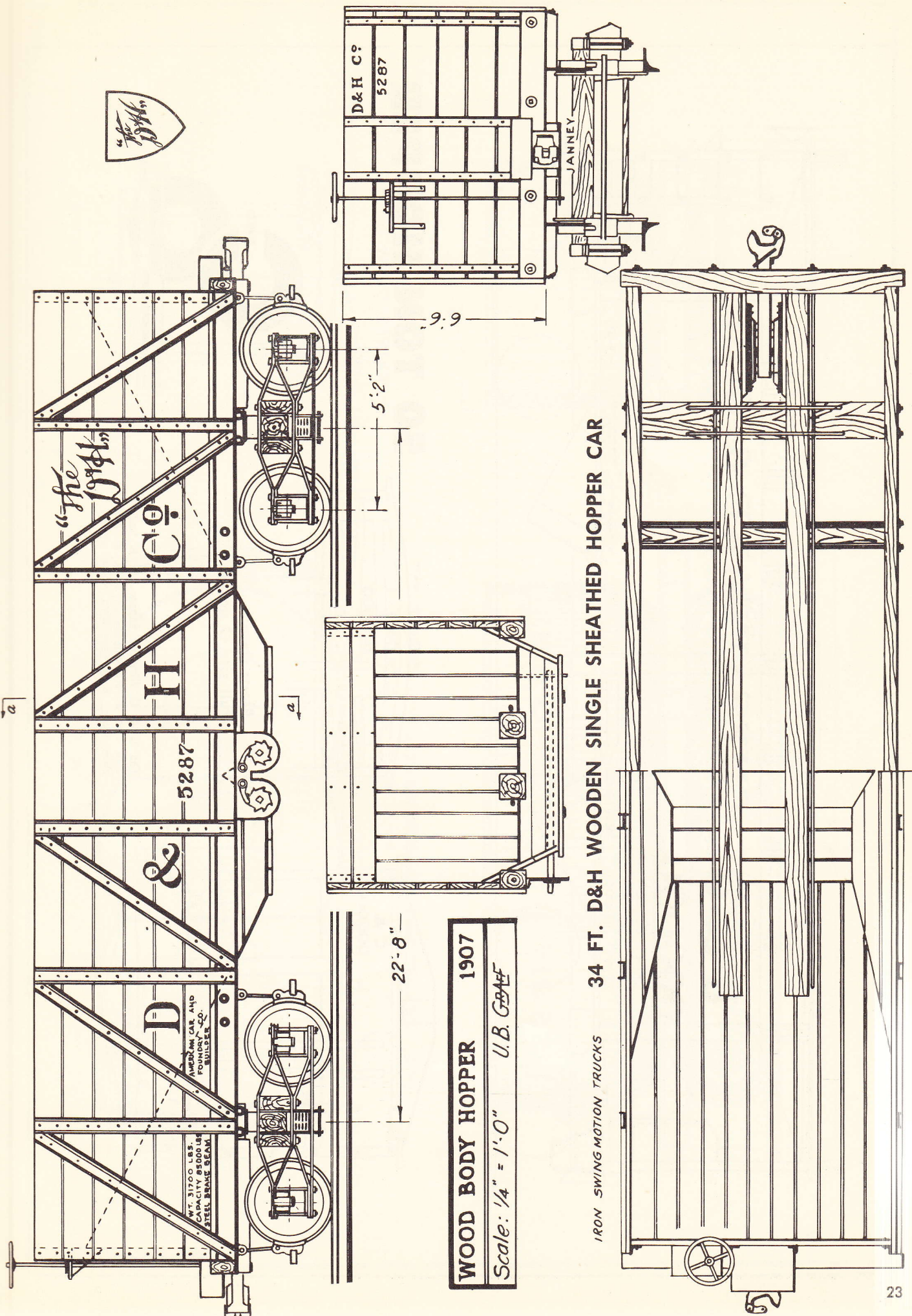
55 TON N&W PEAKED END TWIN HOPPER CAR

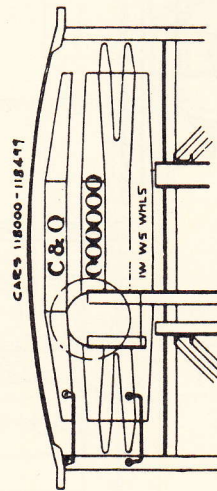
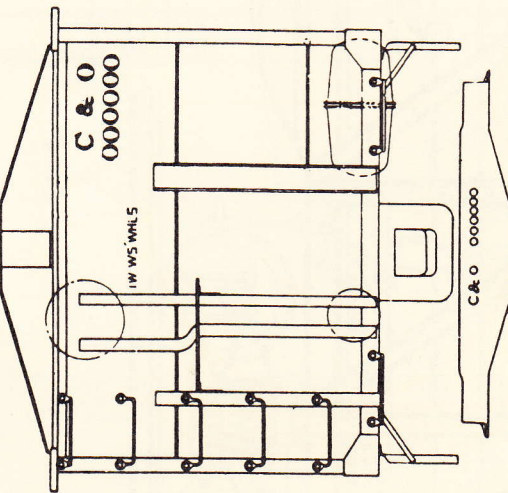
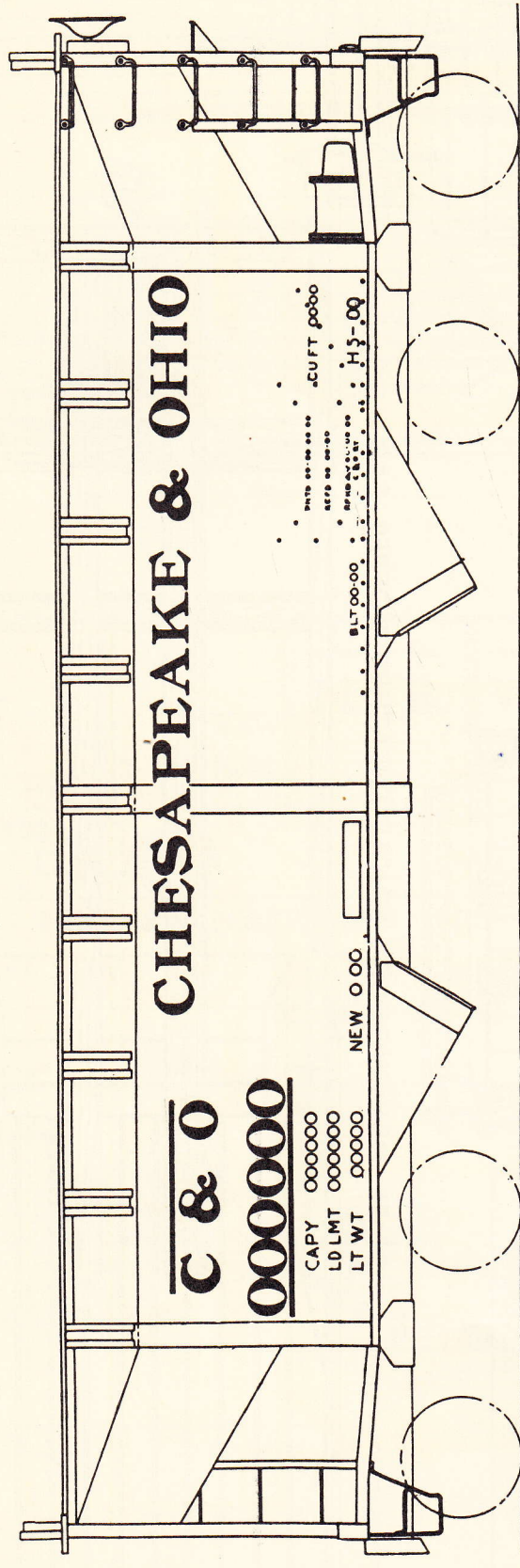
L. AUSTIN

55 TON OFFSET SIDE TWIN HOPPER CAR



TEMPLATES FOR SIDE AND ENDS





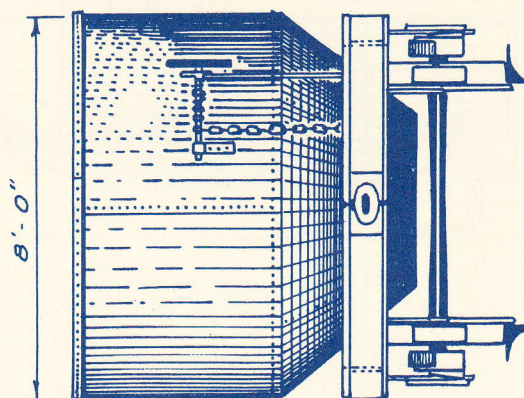
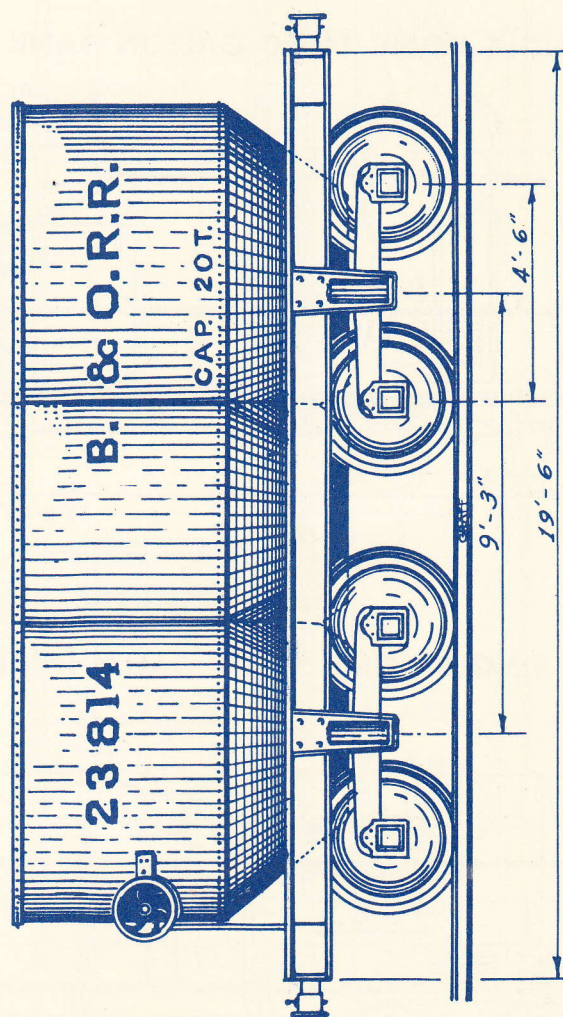
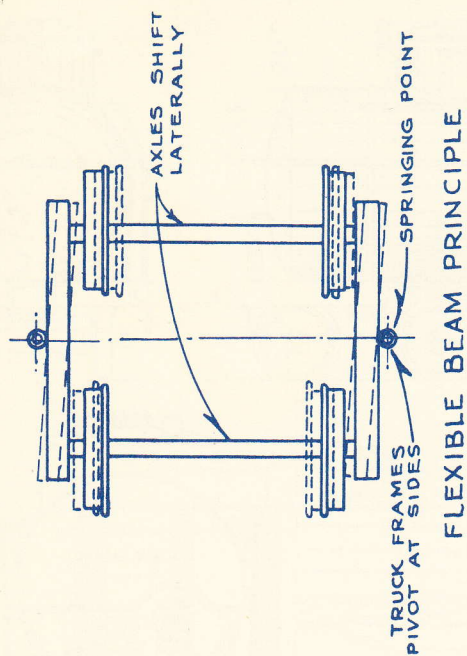
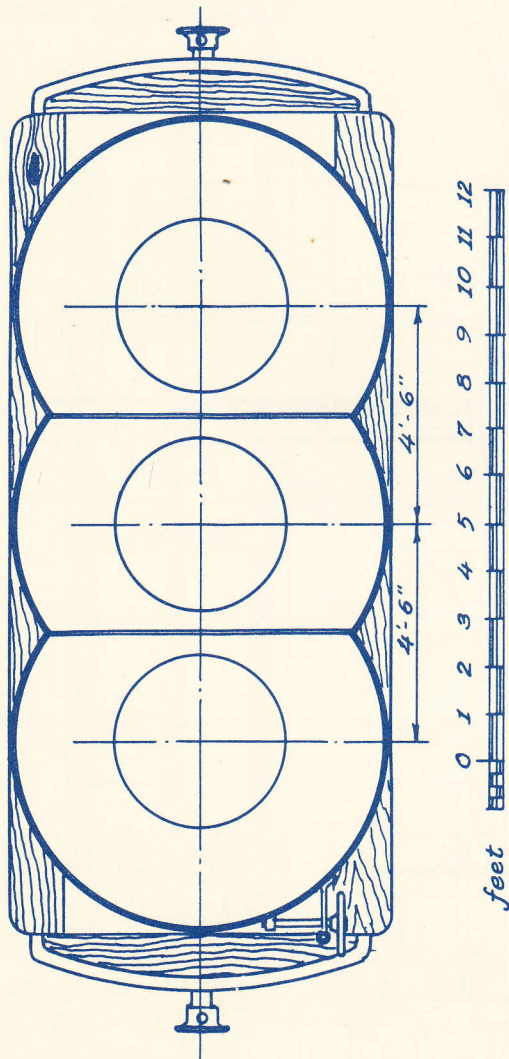
Plans shown
full size O gauge

The C & O fifty-ton hopper car is built
with two different types of ends, as the
plans show. Both have Ajax brake wheels

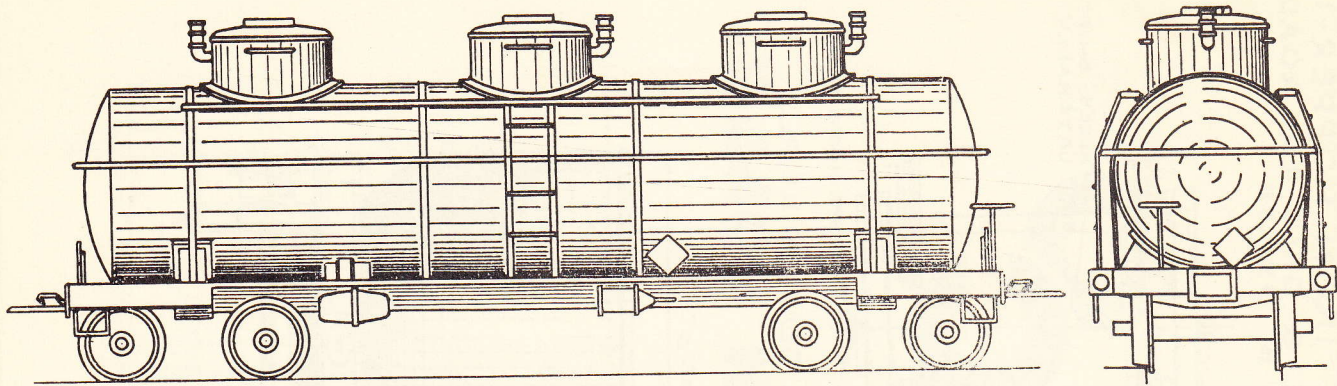
50 TON HOPPER



20 TON 3 POT IRON HOPPER-1880
BALTIMORE & OHIO RAILROAD
V B GRAFF

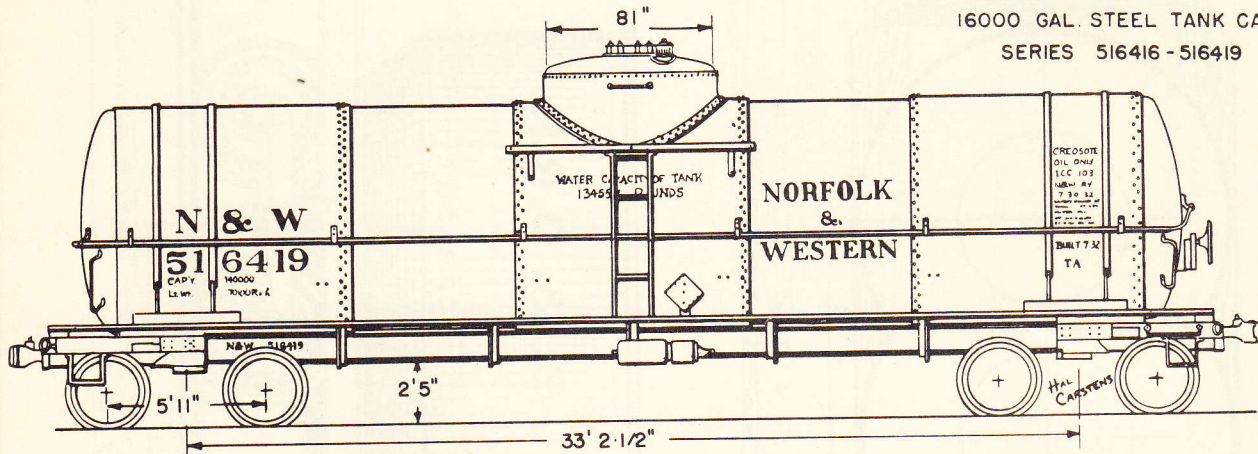


3 DOME TANK CAR

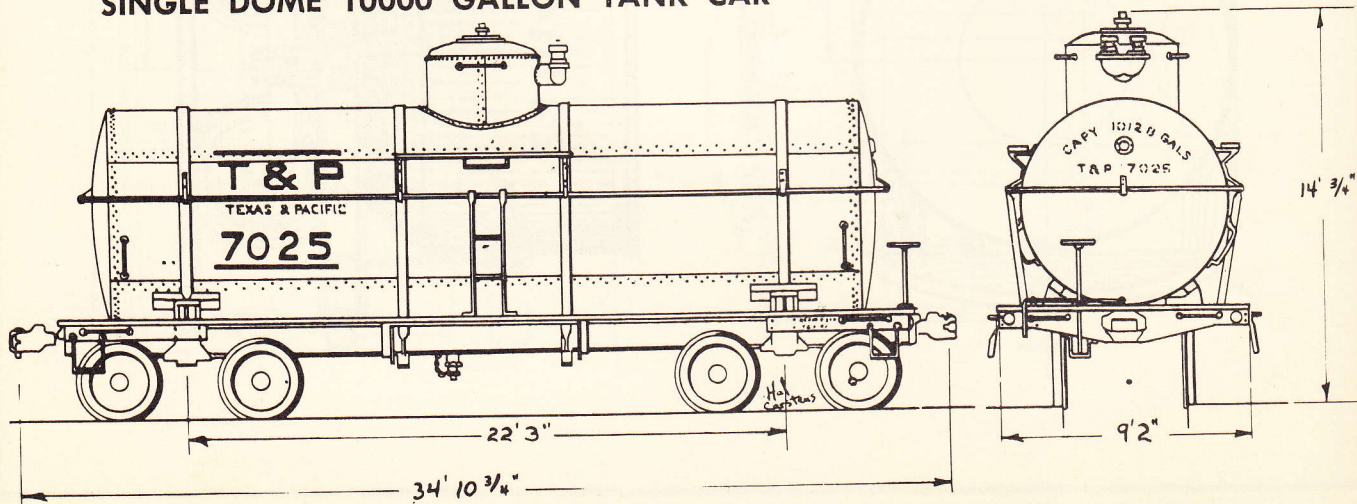


SINGLE DOME 16000 GALLON TANK CAR

NORFOLK & WESTERN RY
16000 GAL. STEEL TANK CAR
SERIES 516416 - 516419



SINGLE DOME 10000 GALLON TANK CAR



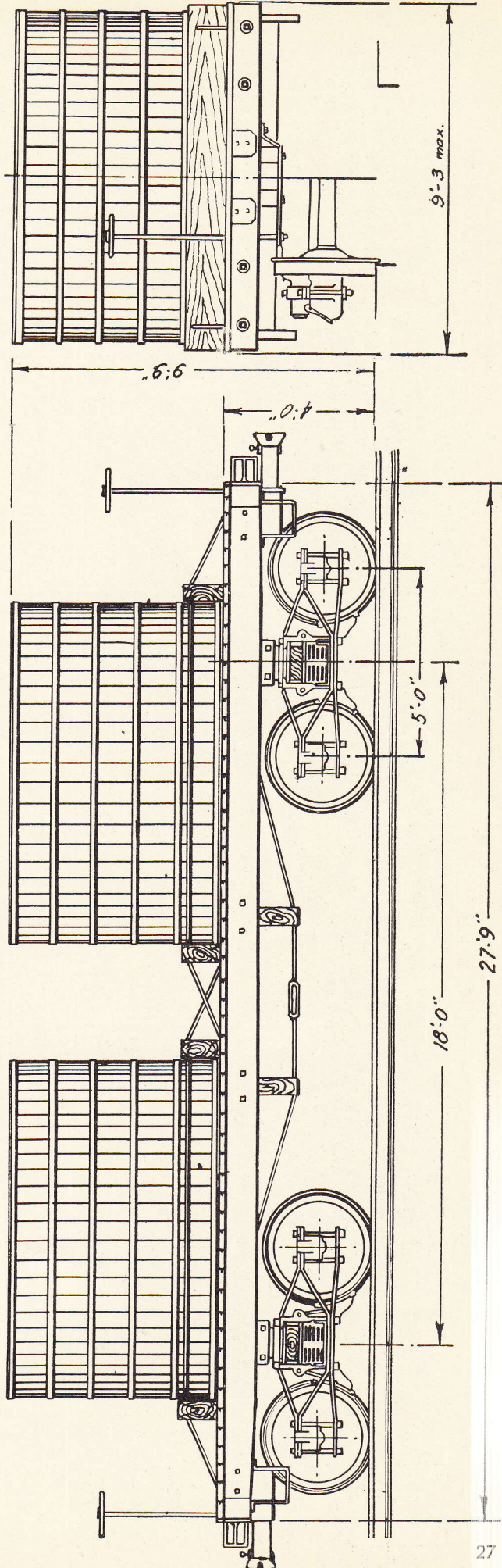
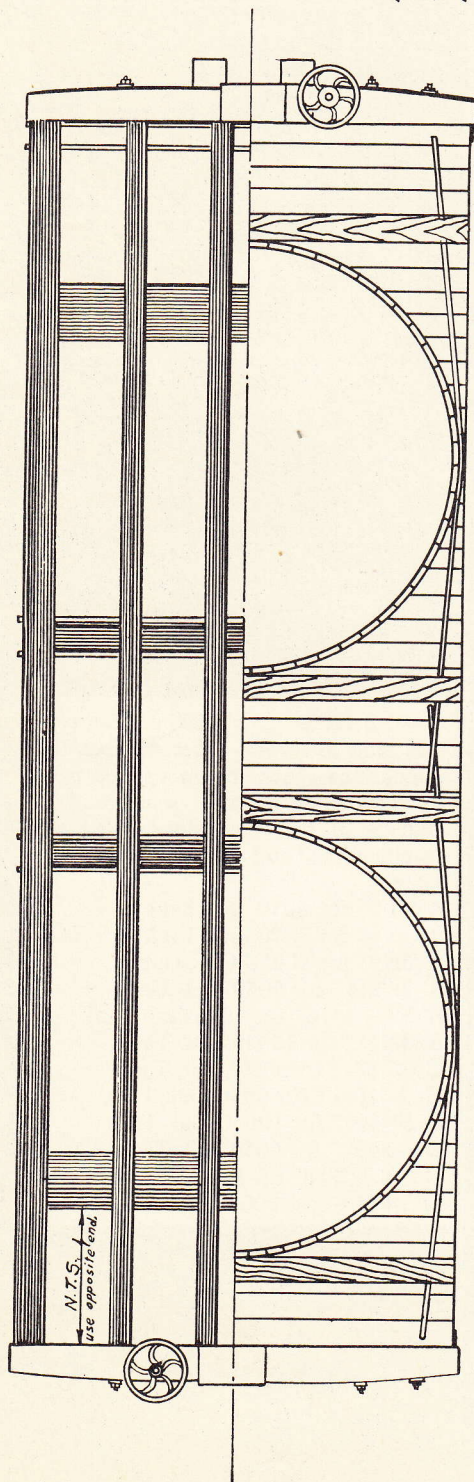
OIL VAT CAR

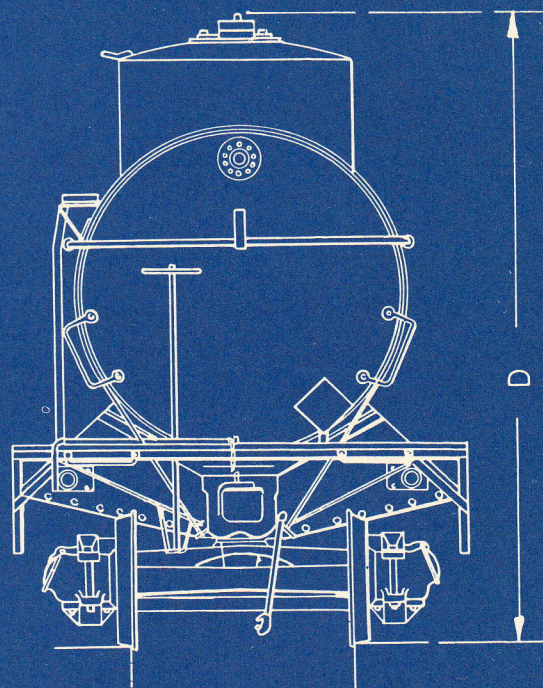
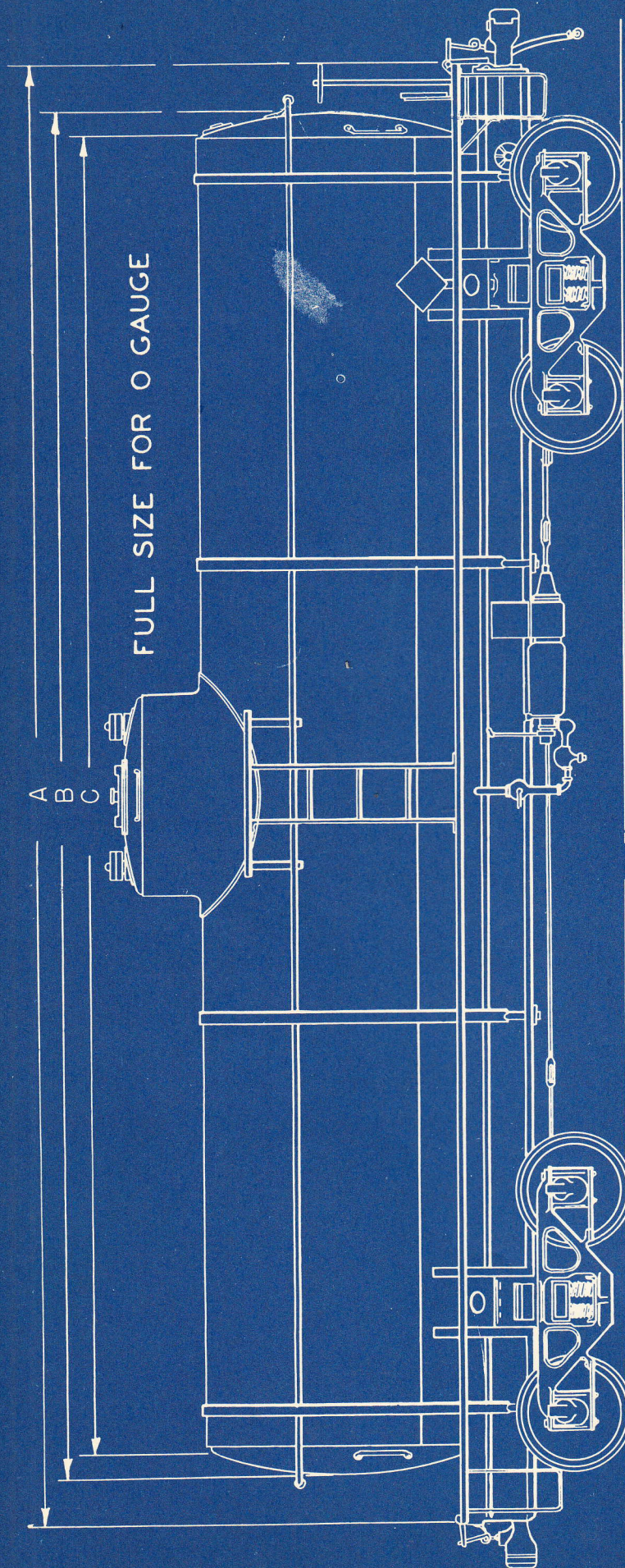
Built 1885

SCALE

1/4" = ONE FOOT

COLOR - PROBABLY RED OXIDE.
BUILDERS DWG - R.R. UNKNOWN.
NOTE: THIS IS STD. 28' - 9 STAKE
FLAT CAR UNDERBODY. CAR 65,000*





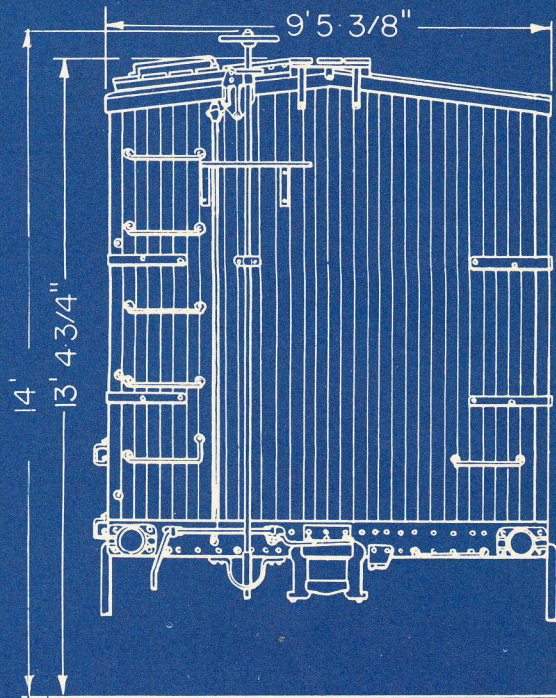
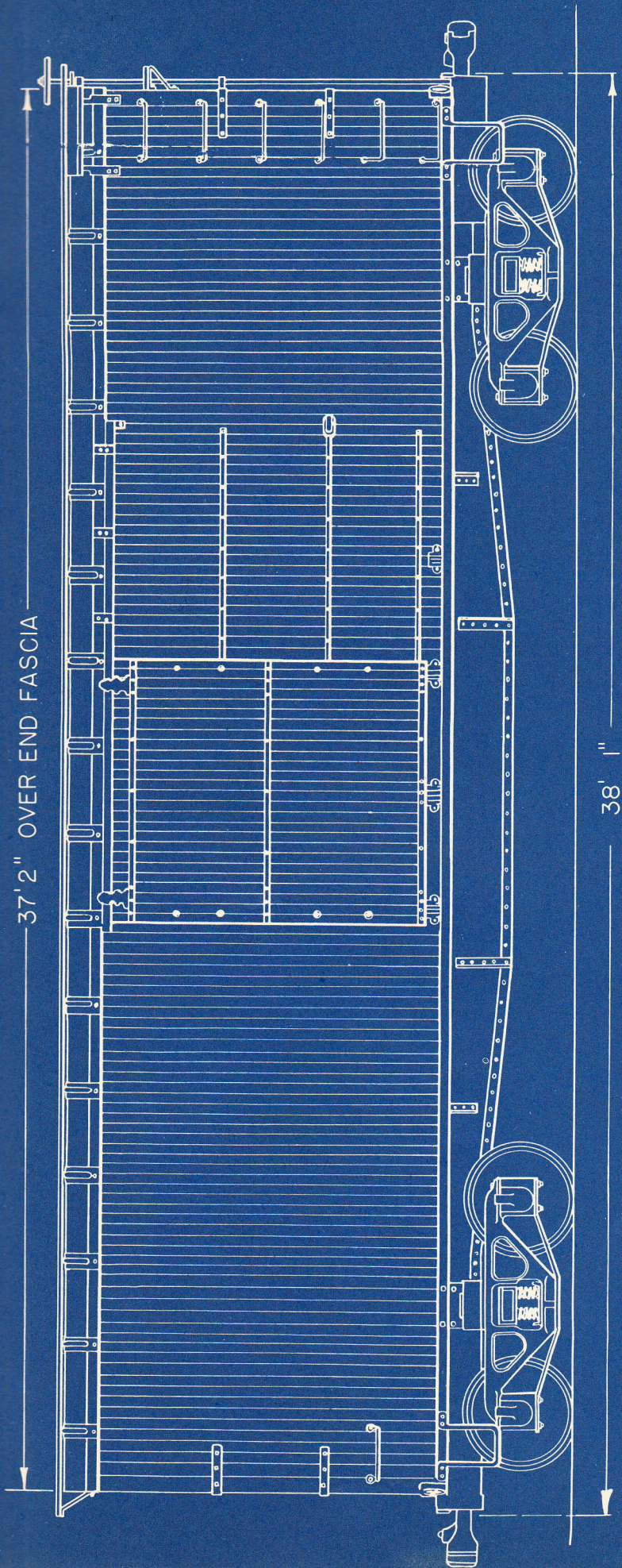
As the prototype was built to several different sizes, the dimensions shown below can be used to build three different scale models. Outside of the dimensions listed, all specifications and details remain the same.

- A 31'9" for 6050 Gal. Tank
- A 35'9" for 8050 Gal. Tank
- A 35'9" for 10050 Gal. Tank
- B 28'9 $\frac{1}{4}$ " for 6050 Gal. Tank
- B 33' 1 $\frac{1}{16}$ " for 8050 Gal. Tank
- B 32'11" for 10050 Gal. Tank
- C 27'8 $\frac{1}{4}$ " for 6050 Gal. Tank
- C 31'10 $\frac{1}{4}$ " for 8050 Gal. Tank
- C 31'4 $\frac{3}{4}$ " for 10050 Gal. Tank
- D 12'4 $\frac{3}{4}$ " for 6050 Gal. Tank
- D 13' 1 $\frac{7}{16}$ " for 8050 Gal. Tank
- D 14'6 $\frac{1}{8}$ " for 10050 Gal. Tank

1920 CENTER ANCHORAGE TANK CAR-TYPE "A"

BUILDER - STANDARD STEEL CAR CORPORATION

HAL CARSTENS



FULL SIZE 0 GAUGE

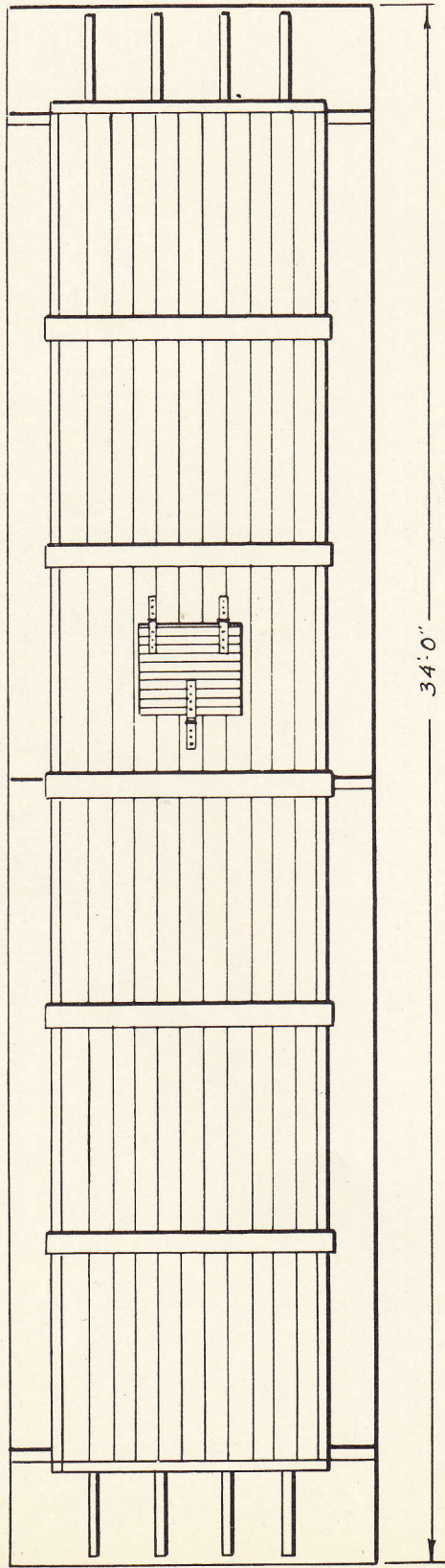
1912 STEEL UNDERFRAME BOX CAR
 BUILDER - PRESSED STEEL CAR COMPANY
 PITTSBURGH & LAKE ERIE RAILROAD
 SERIES 32000 TO 33999
 NOTE: MANY OF THESE CARS WERE REBUILT WITH STEEL ENDS

Central Pacific 1869

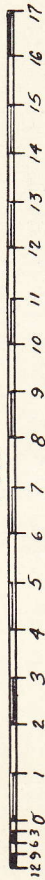
OIL VAT CAR — 1880 WOOD

Scale: $\frac{1}{4}" = 1'-0"$

U. B. GRAFF

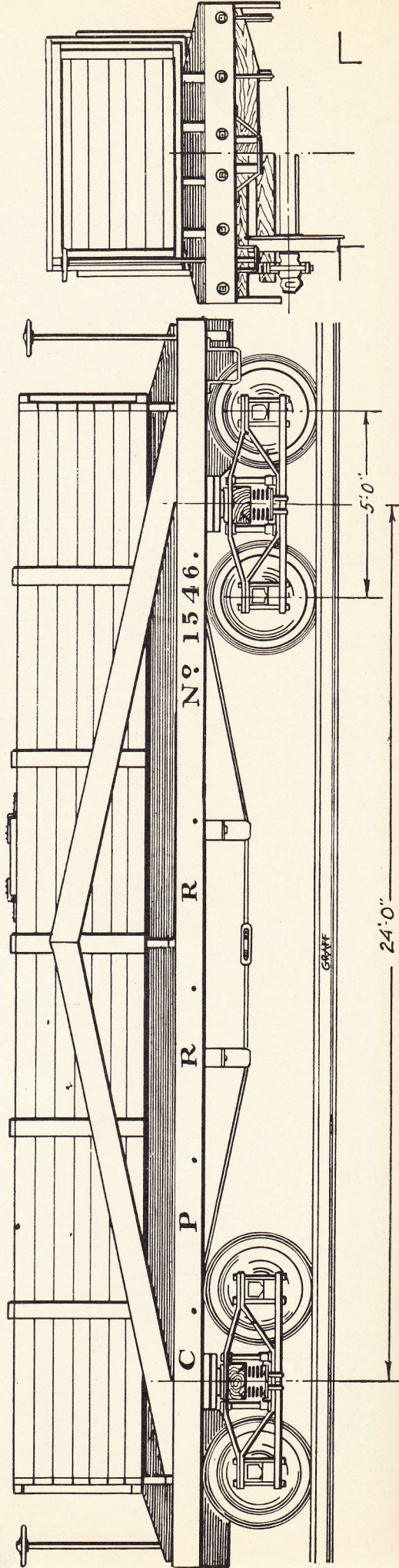


Feet



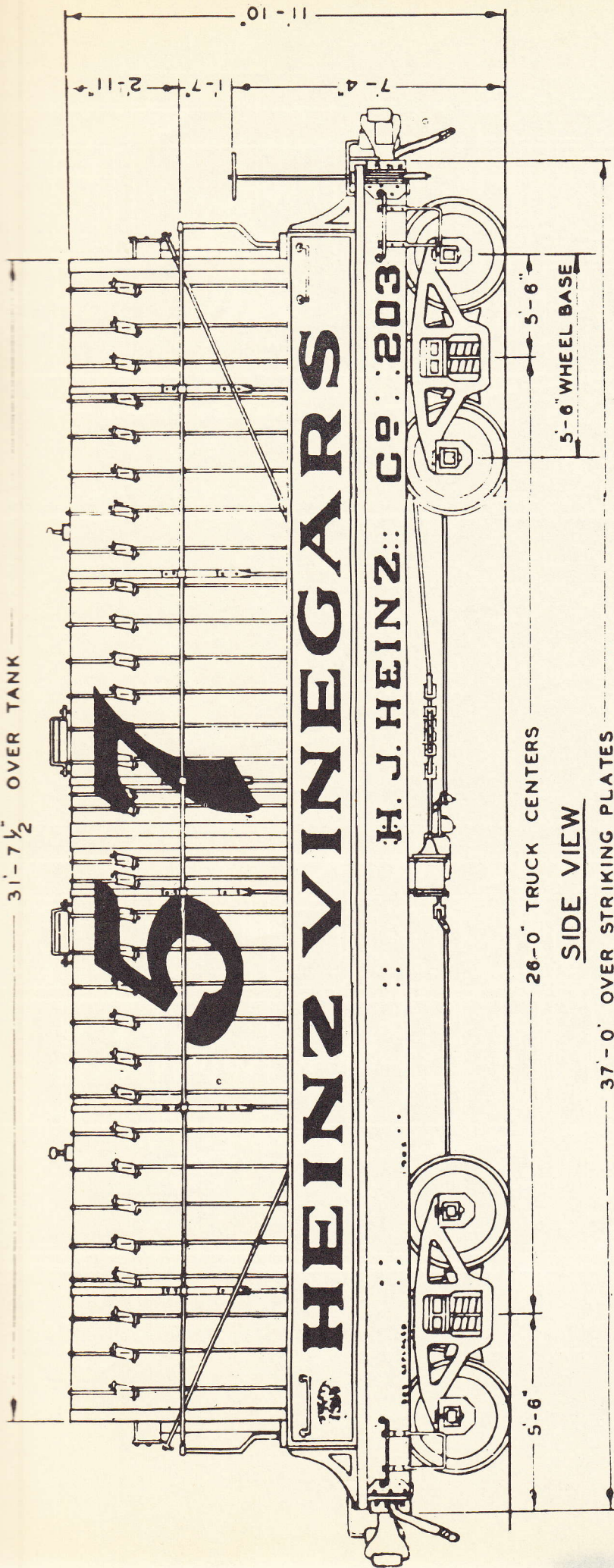
Color - Red oxide

Extensively used as auxiliary tender
as well as general tank service.



31'-7 1/2" OVER TANK

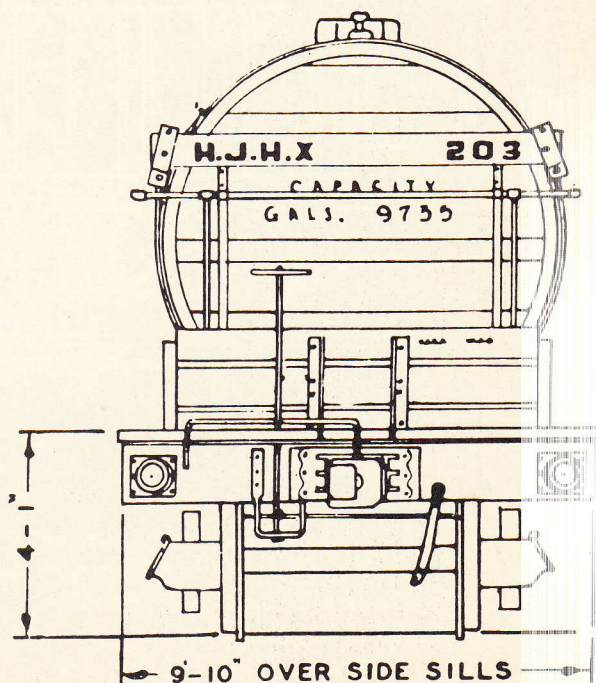
31'-7 1/2" OVER TANK



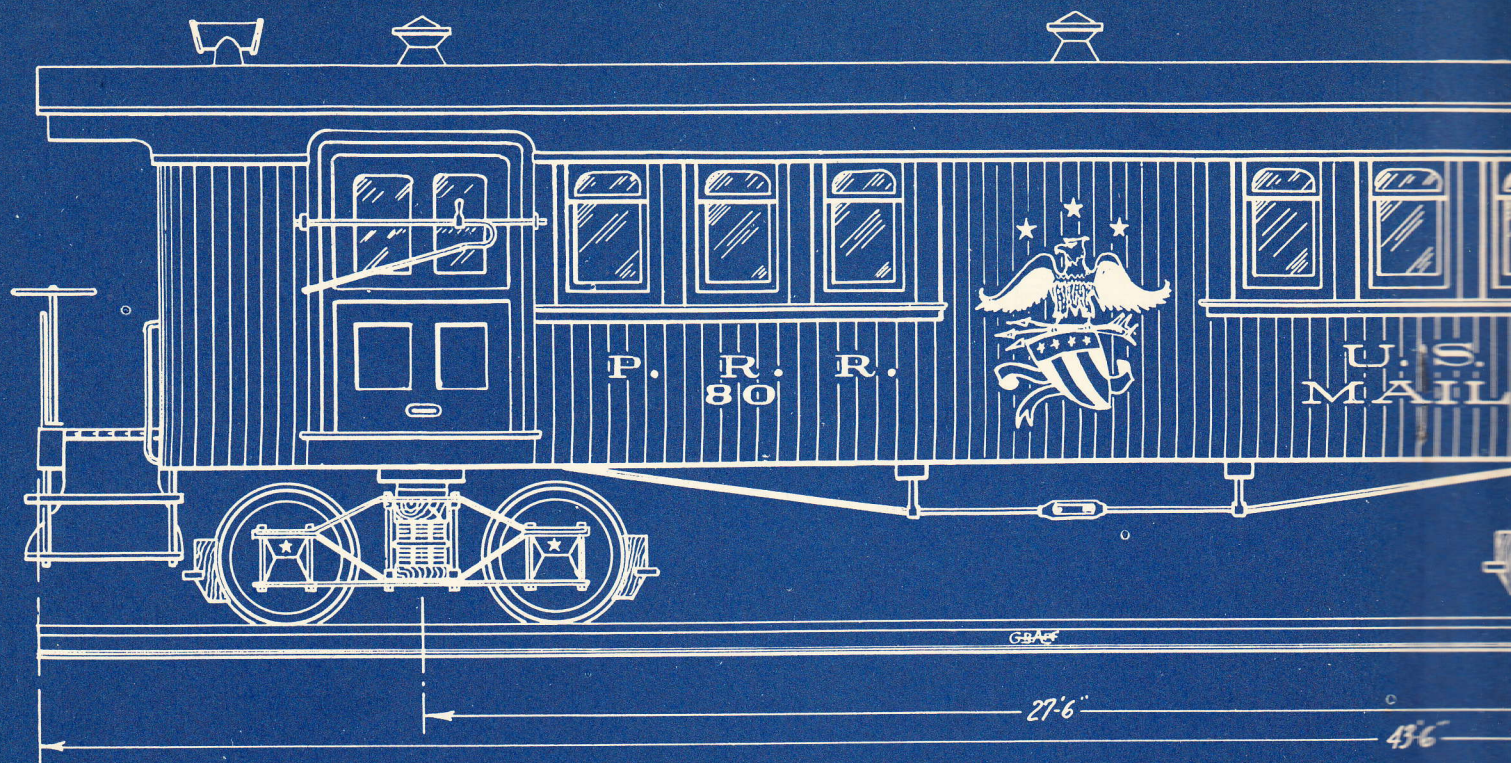
SIDE VIEW

FULL SIZE FOR O GAUGE

VINEGAR TANKS AND SIDE PANELS ARE CHROME YELLOW — "57" AND WORDS "HEINZ VINEGARS" ARE DARK BLUE OUTLINED IN WHITE — THE GALLONAGE CAPACITY AND CAR NUMBER AT TANK ENDS ARE IN DARK BLUE — SIDE AND END SILLS ARE BROWN AND LETTERED IN WHITE — RUNNING GEAR AND SADDLES ARE BLACK

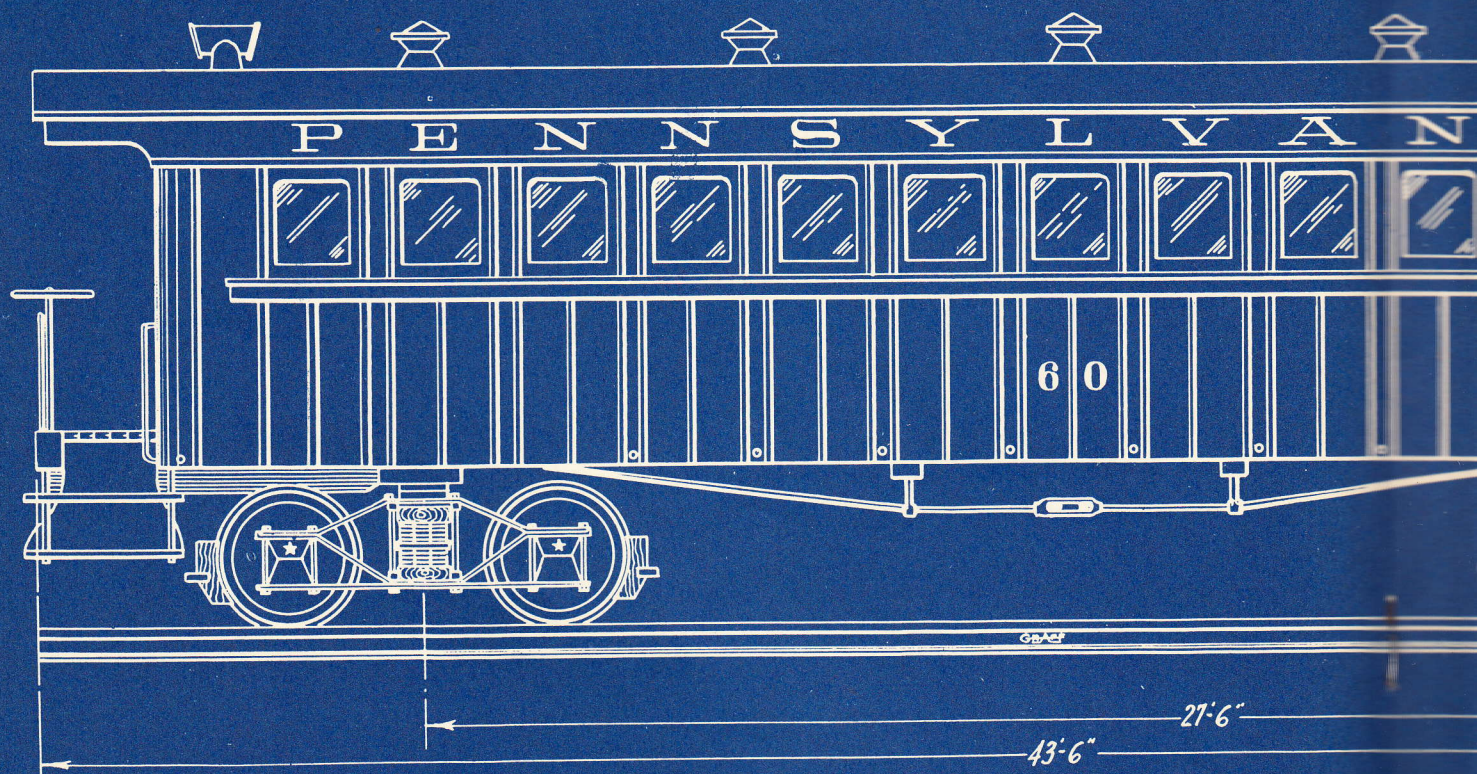


HEINZ VINEGAR
TANK CAR

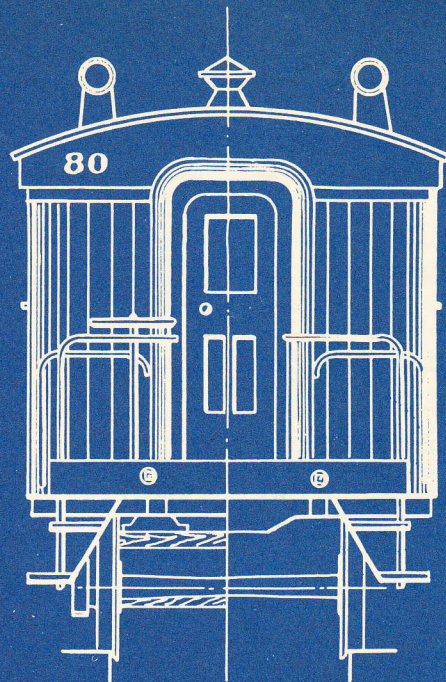
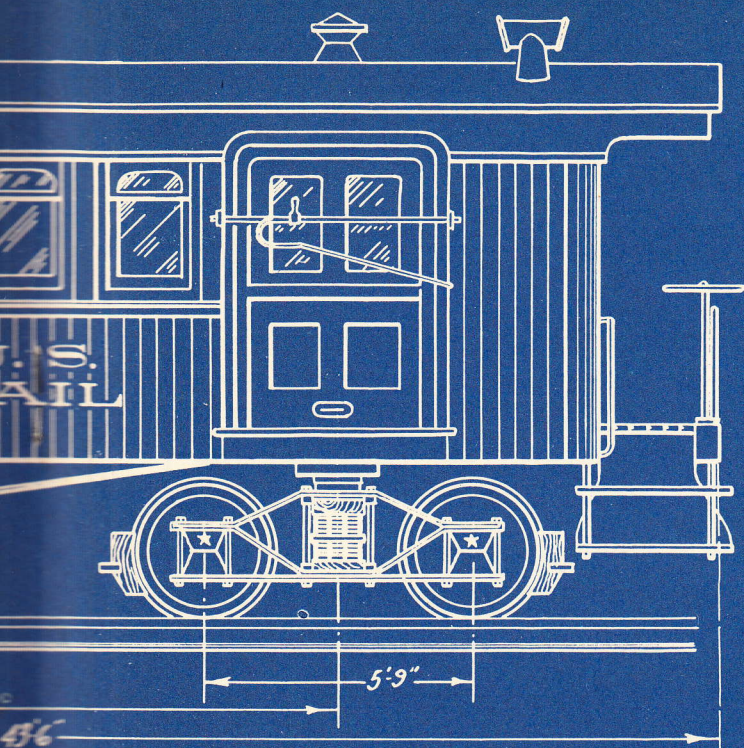


PAINT SCHEDULE
BODY & ENDS: Cadmium Yellow
DOORS & SASHES: Buff
ROOF & PLATFORMS: Brown

TRUCKS: Black
WHEELS: Vermilion. EMBLEM: Natural colors



PAINT SCHEDULE
BODY & ENDS: Cadmium Yellow
DOORS & SASHES: Buff
ROOF & PLATFORMS: Brown
TRUCKS: Black - red star
WHEELS: Vermilion

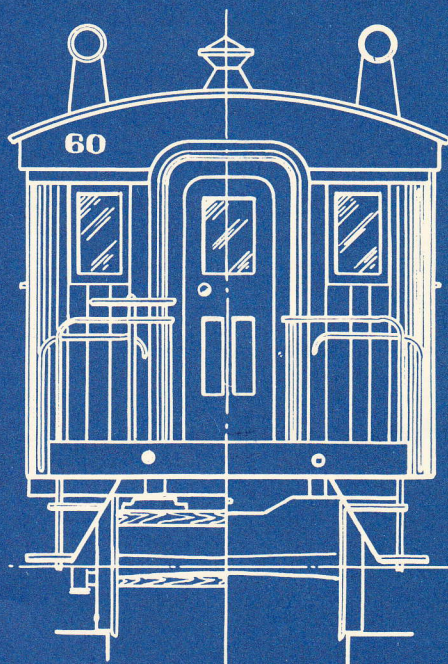
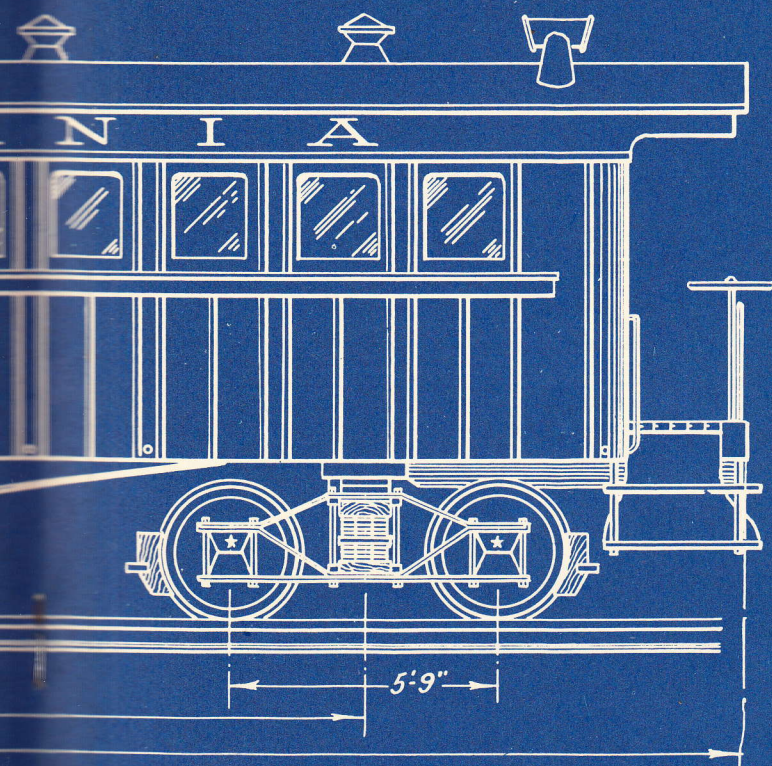


CONSTRUCTION NOTES
*T & G Sides, recessed windows.
 Arch bar elyptical spring trucks
 Hand brakes - wood shoes.*

POSTAL CAR

1863

Scale: $\frac{1}{4}'' = 1'-0''$ U. B. GBAEF



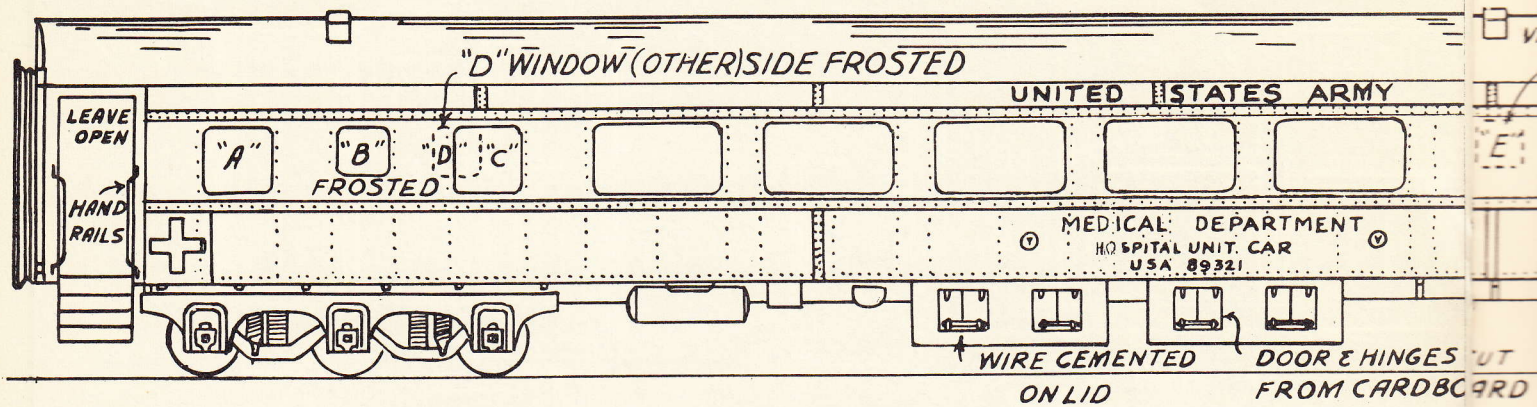
CONSTRUCTION NOTES
*Lap moulded side panels.
 Elypticaly sprung arch-bar trucks.
 Hand brakes, wood shoes.*

44' RADIAL ROOF COACH

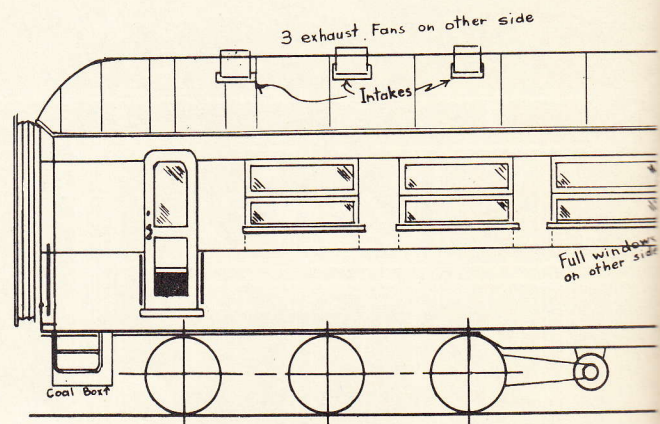
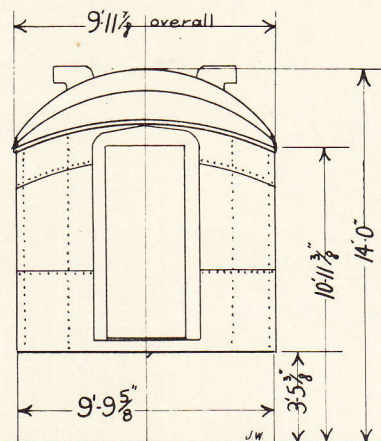
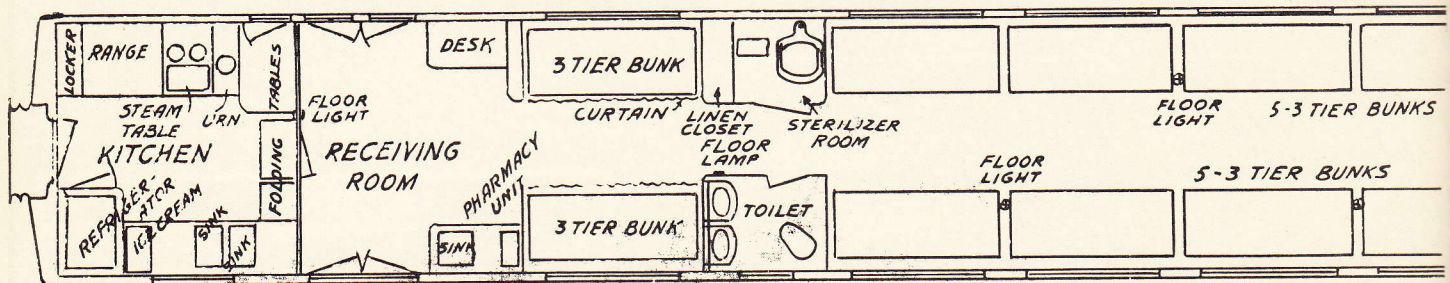
1863

Scale: $\frac{1}{4}'' = 1'-0''$ U. B. GBAEF

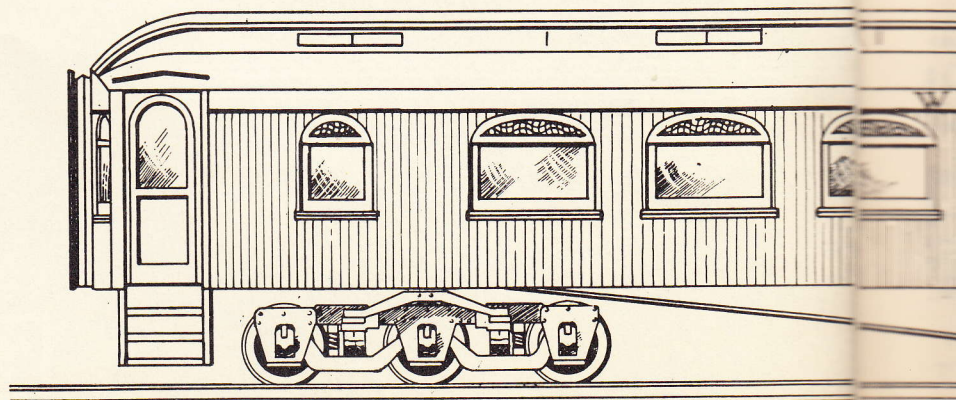
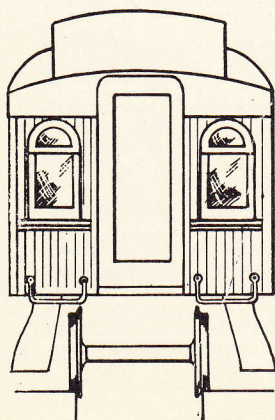
84'-6"
(OVER BOLSTER)

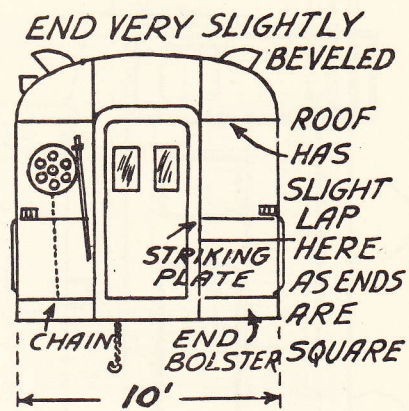
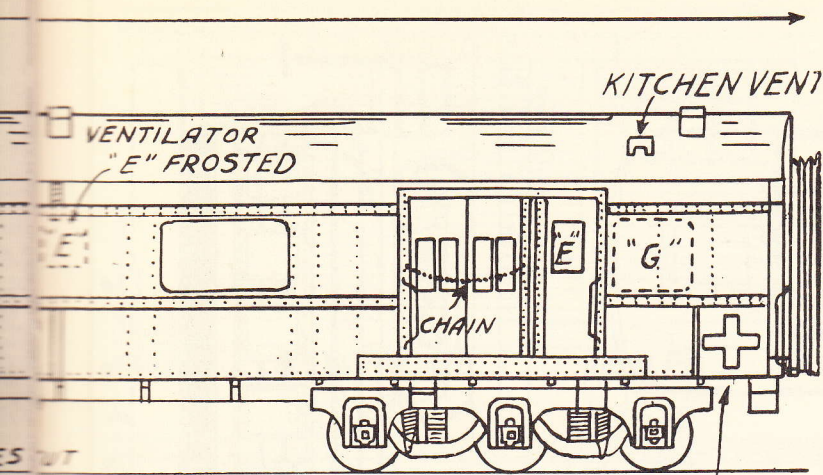


NOTE: OPPOSITE SIDE OF CAR SAME WITH THESE EXCEPTIONS -
ELIMINATE WINDOWS "A" "B" & "C". ADD FROSTED WINDOWS (DOTTED) "D" & "E"
ELIMINATE (AT OTHER END) DOOR "F" AND ADD WINDOW "G"



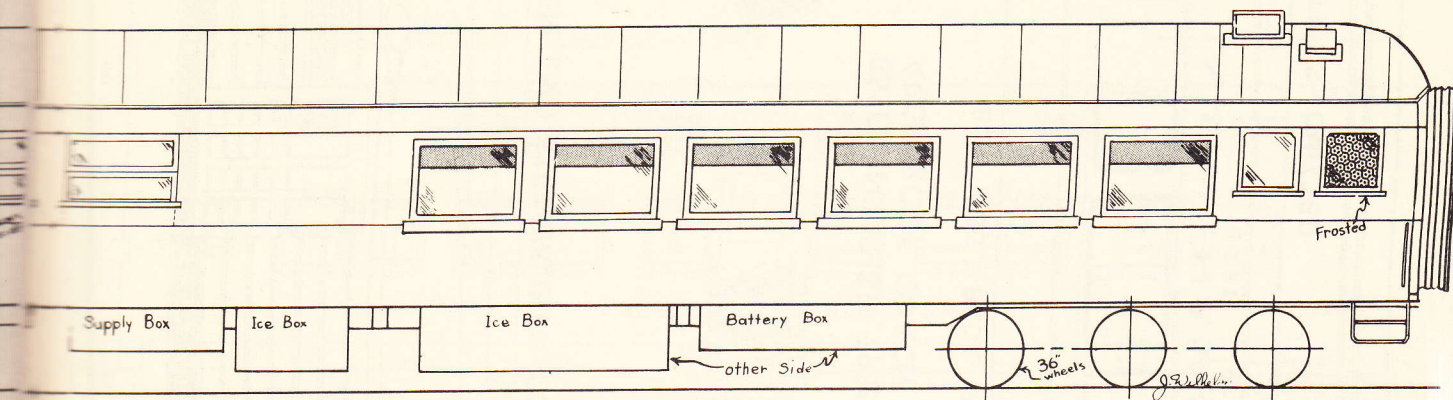
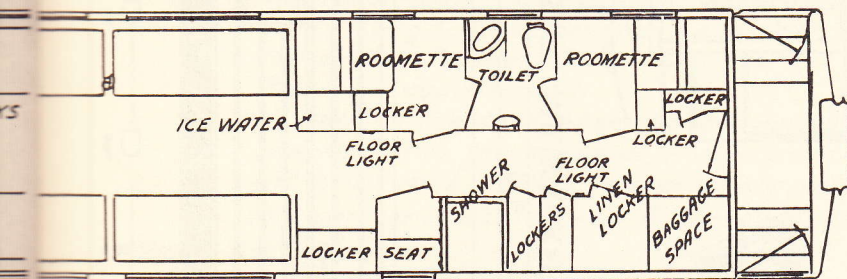
Plans full
size for HO





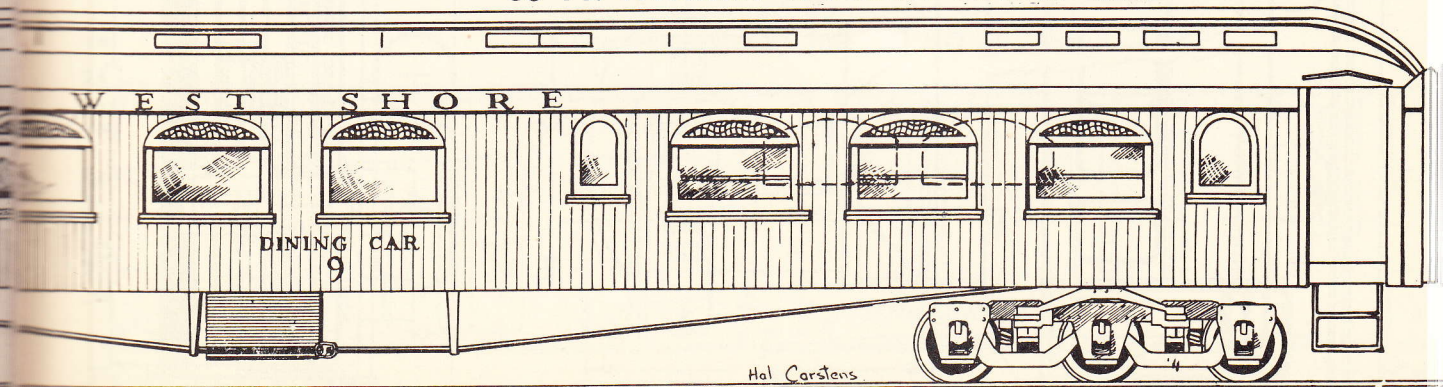
RED CROSS PAINTED.
ON WHITE PAPER PASTED
ON CAR AFTER PAINTING SIDE

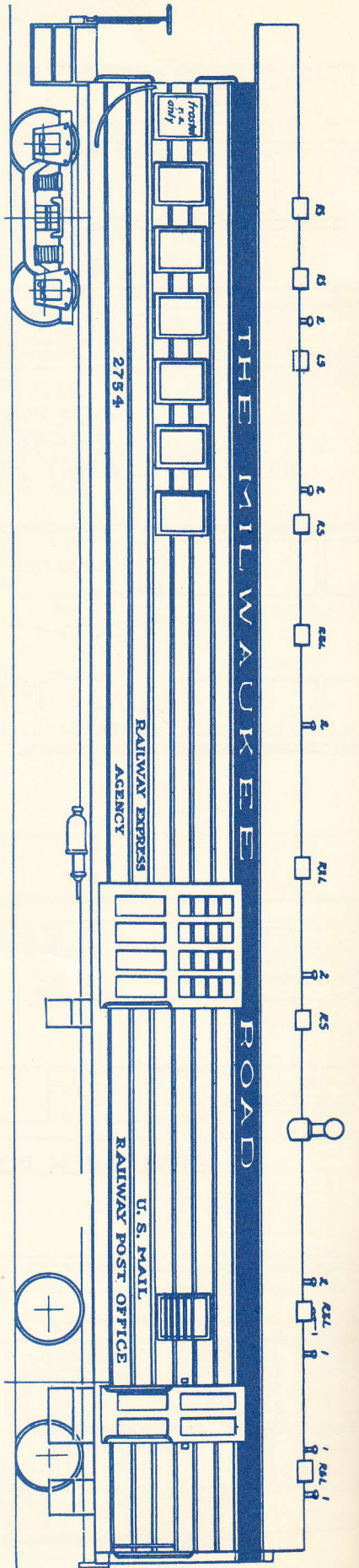
85 FT. U. S. ARMY HOSPITAL CAR—1942



STEEL ARCH ROOF DINING CAR

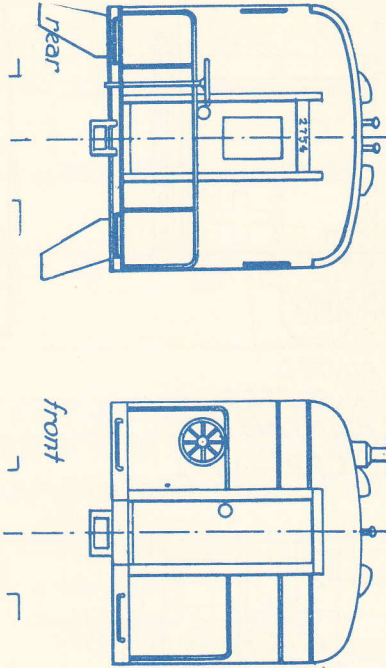
80 FT. NYNH&H WOODEN DINING CAR





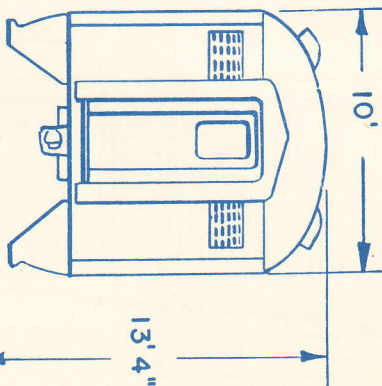
SCALE OF FEET

75 FT. MILWAUKEE OPEN END STREAMLINED COMBINE

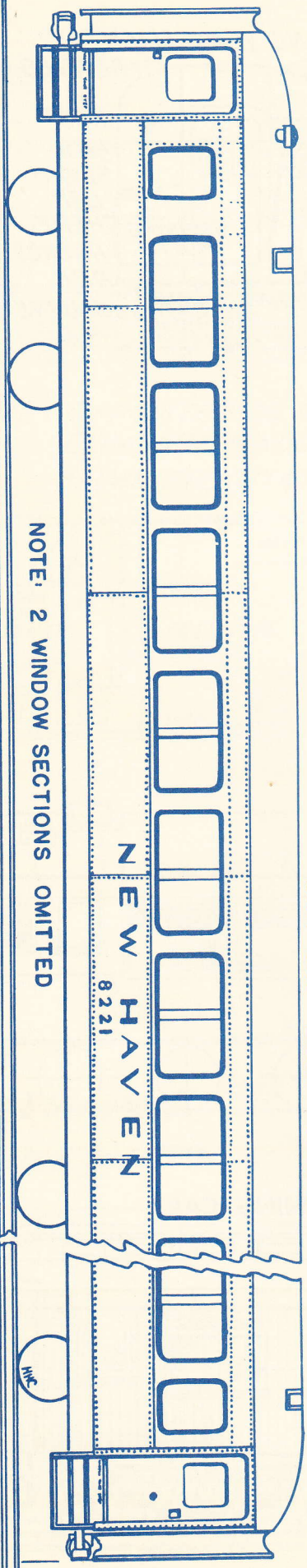


*The New York
New Haven
and Hartford
Railroad Co.*

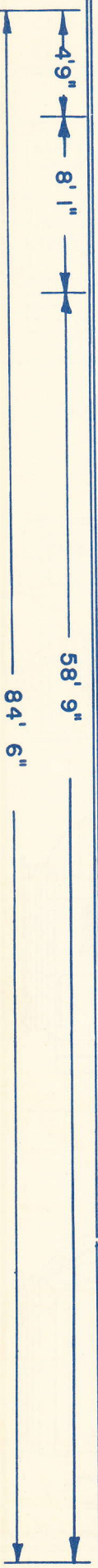
85 FT. NYNH&H 1935
ARCH ROOF COACH

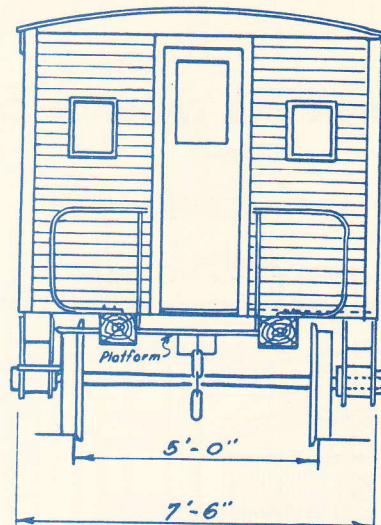
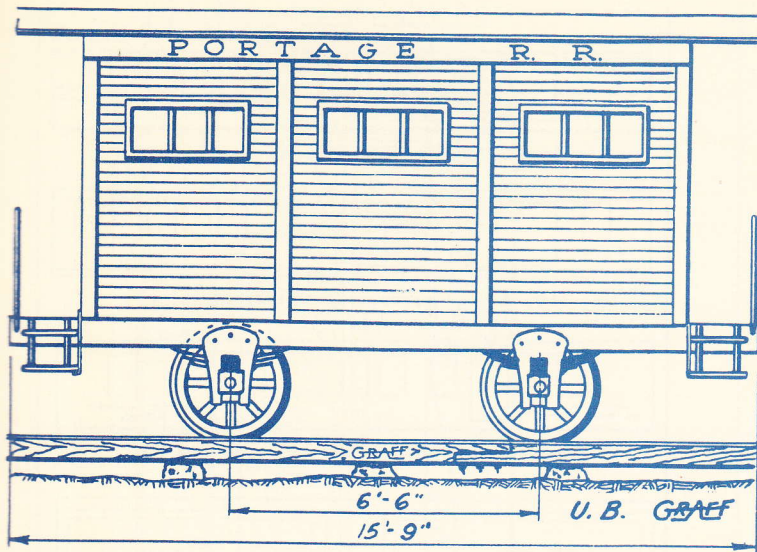


BLT. 1935 BLDR. PULLMAN



NOTE: 2 WINDOW SECTIONS OMITTED





HISTORICAL

Similar cars were used by all existing R.R.s
Car illustrated - Portage RR of Alleghenies.
Unlit, Longitudinal benches, and NOT for
tall or fat People (Doors 20" x 5'-6")
Fully air conditioned.

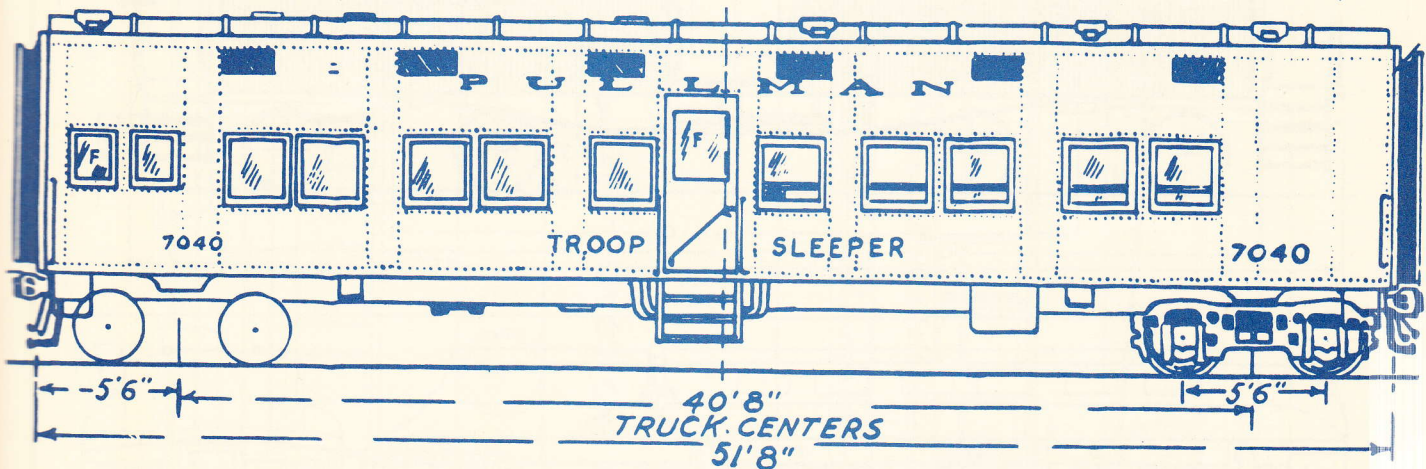
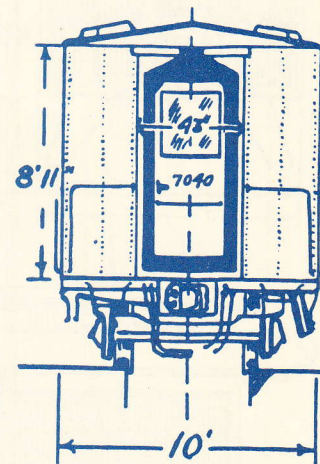
Built in the days when the locomotive
competed with the horse as motive power —
and often lost! Either is appropriate with
this car as is also a cable & Donkey Engine.

Paint Job

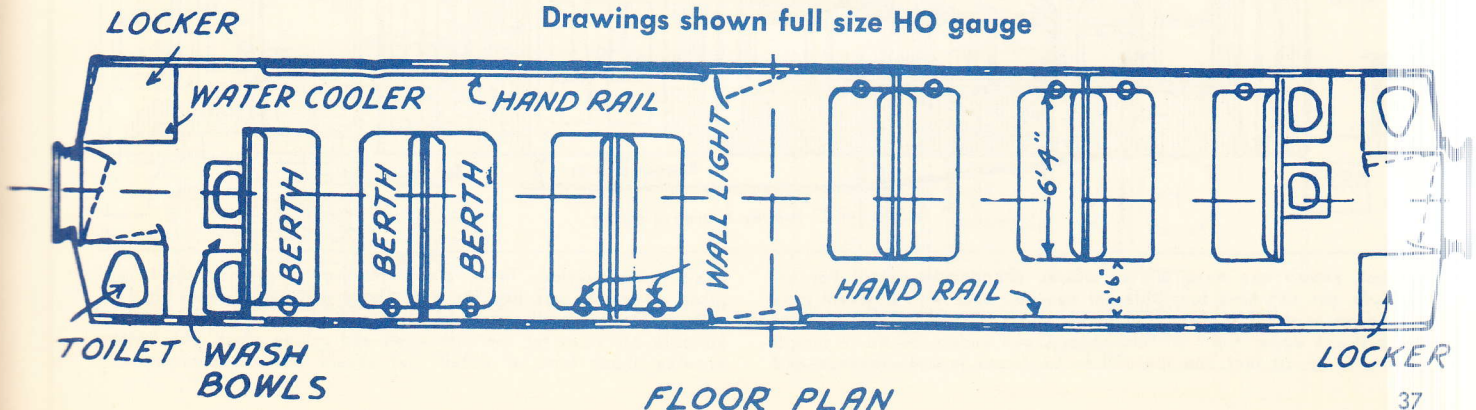
Looketh mightilie of Ye Nature of aged woode.

16 FT. 1835 PORTAGE RR. SINGLE TRUCK WOODEN COACH

52 FT. PULLMAN TROOP SLEEPER — 1942



Drawings shown full size HO gauge

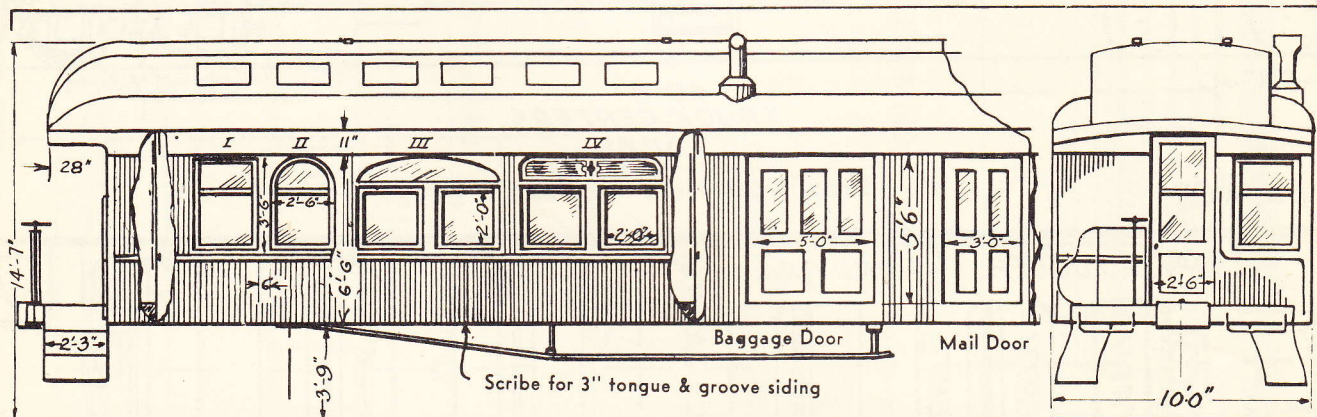
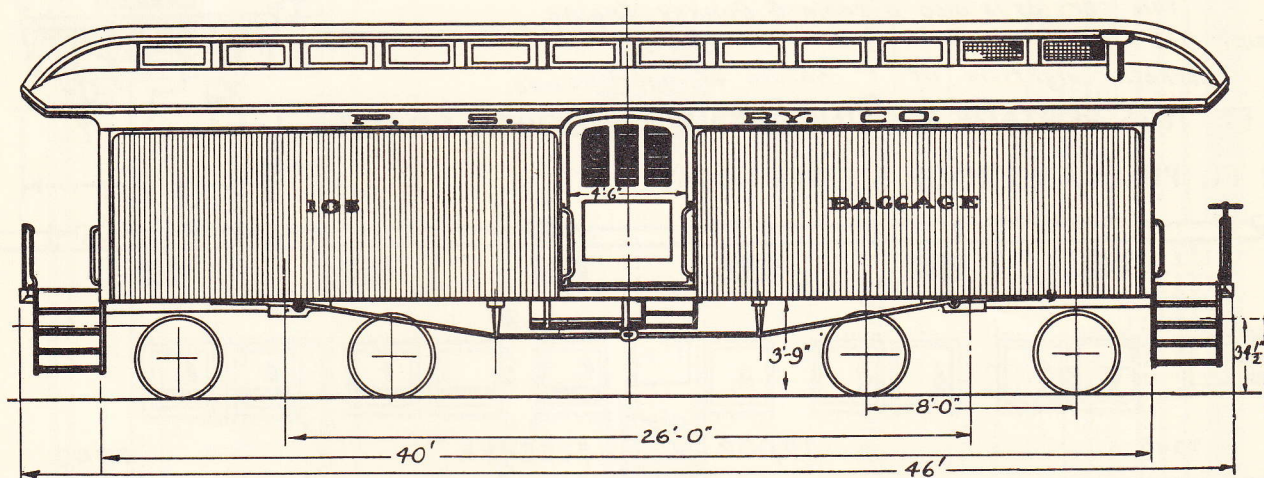
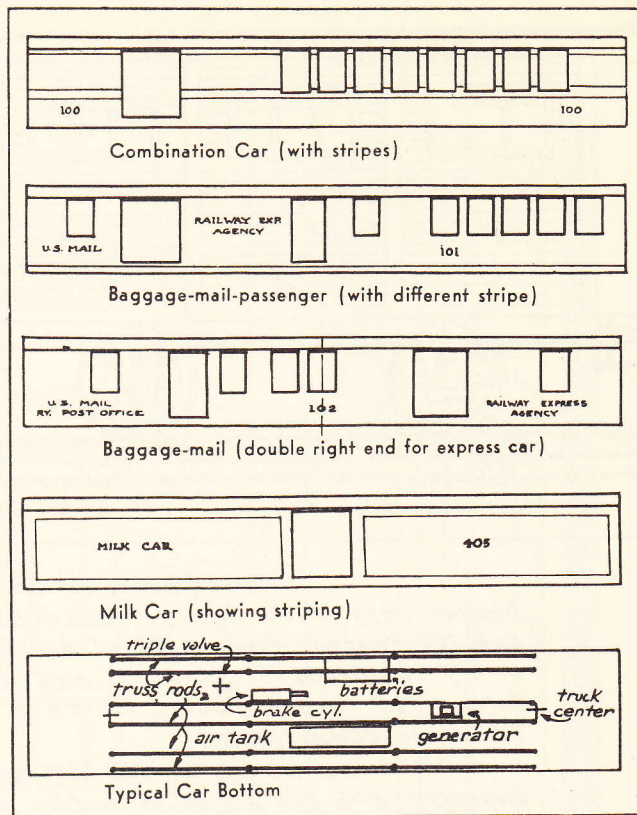
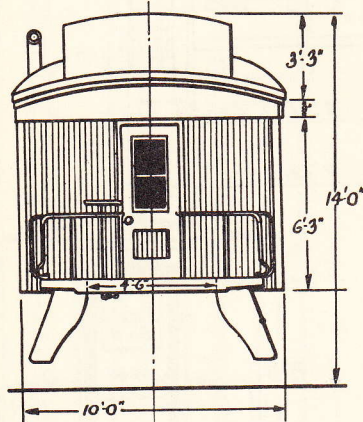


FLOOR PLAN

Suitable car sides for use with open-end rolling stock. The bottom drawing shows details that should be added underneath

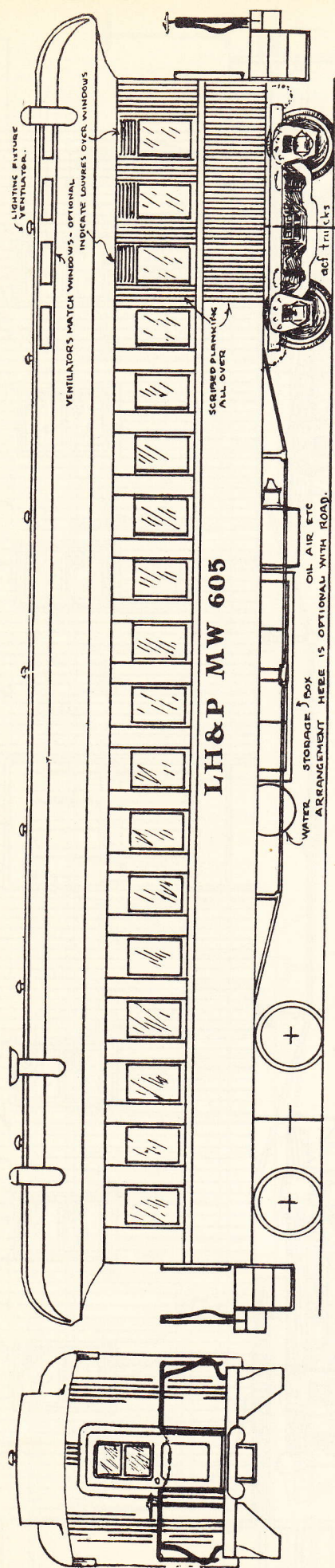
46 FT. OPEN END BAGGAGE CAR

Plans below full size HO gauge
Side Variations and underbody details, 1/2 size

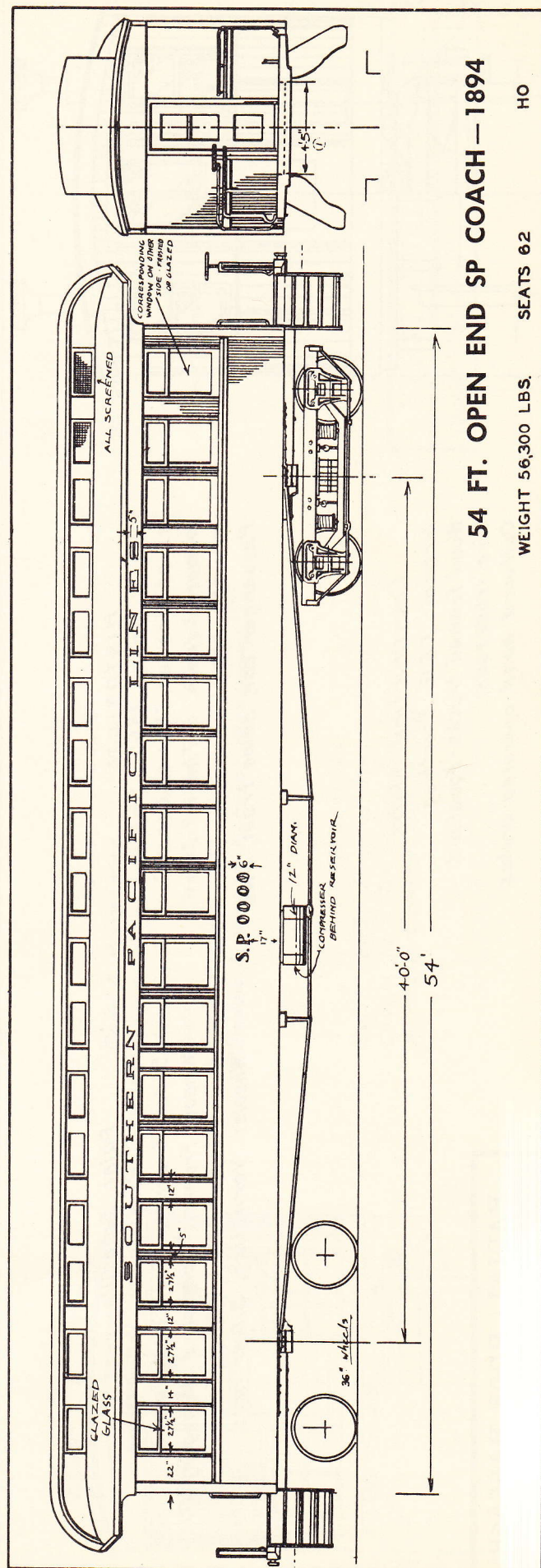


Open ends can have almost infinite changes in detail. For example, you can have four different coaches, each with different type windows as shown in Roman numerals above. Combination variations are shown upper right on this page. Open ends varied in length from 40 to 70 feet and are still to be found in both revenue and

non-revenue service. These old timers are ideal for short radii pikes on which cars like the 105 above will negotiate with ease, without "trolley car" overhang. Why not build a complete string? Suitable car sides for use with open end rolling stock. The bottom drawing shows type of detail that should be added underneath.



60 FT. OPEN END COACH - 1885

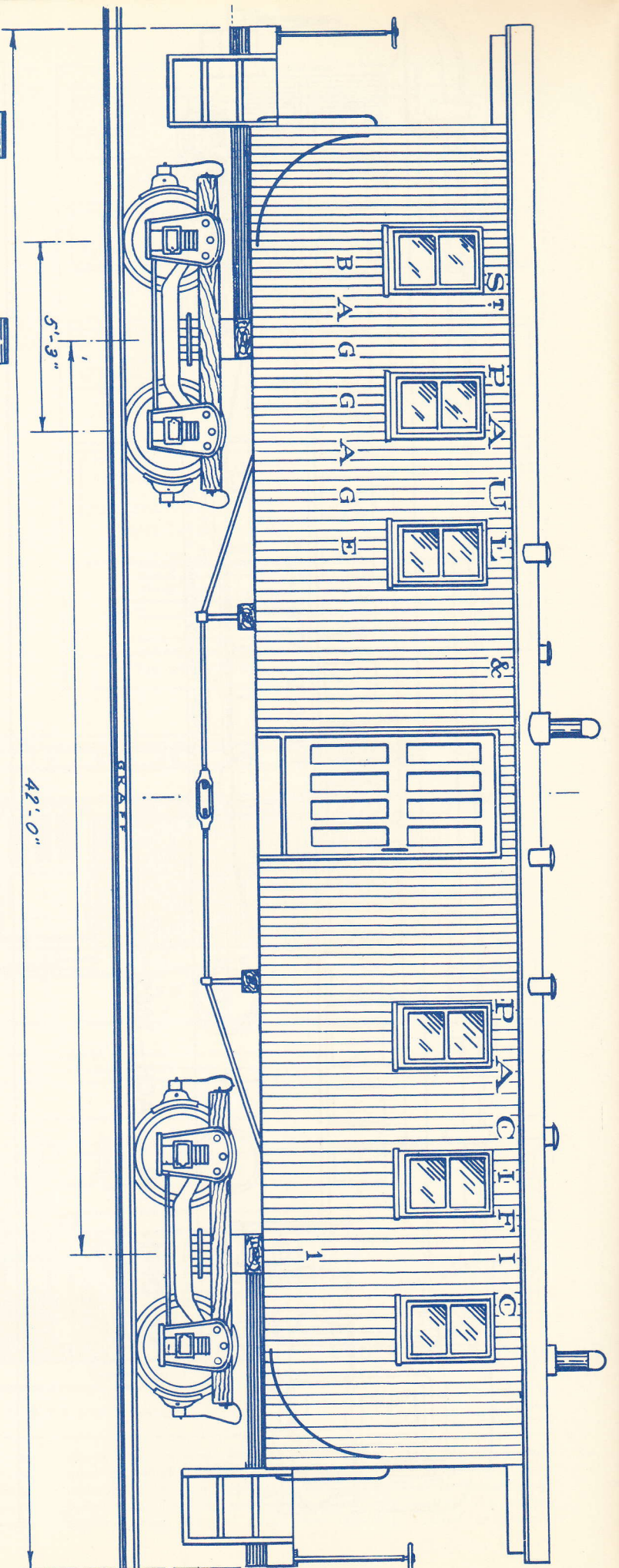


54 FT. OPEN END SP COACH - 1894

WEIGHT 56,300 LBS.

SEATS 62

HO

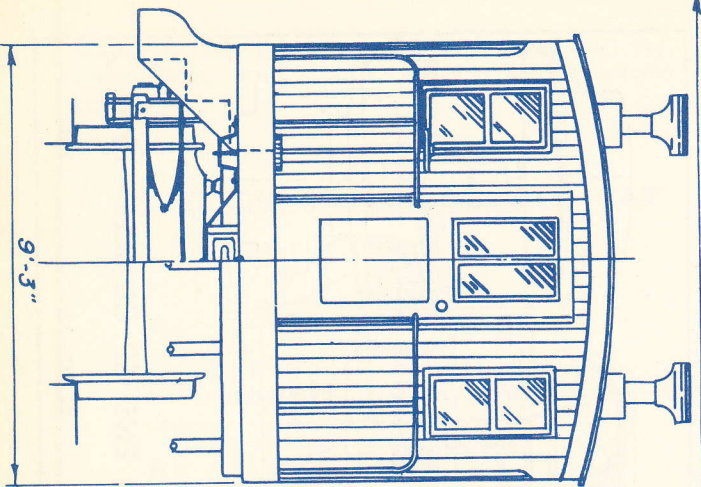


HISTORICAL
 Built about 1860. Still in
 existence as "William Crooks"
 memorial train. The No. 1
 tells the rest.
 Passenger car, same train, Dwg.

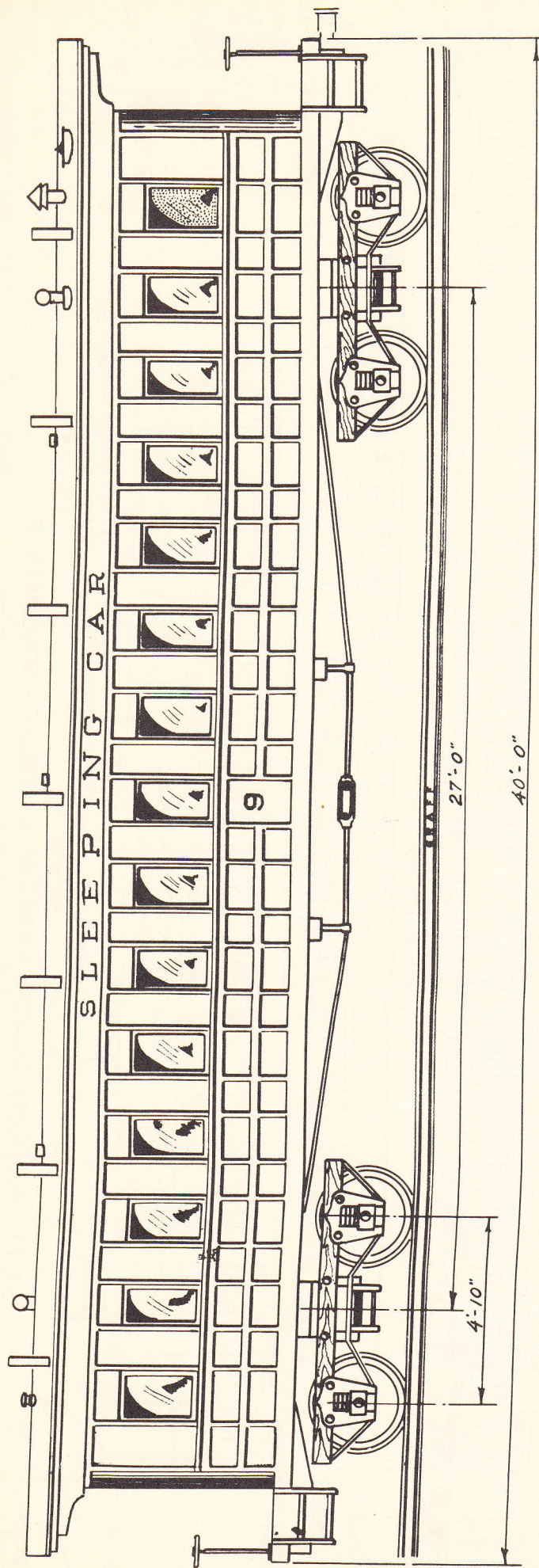
Paint Schedule
 Roof & Platforms: Yellow Ochre
 Sides & Ends: Deep Cadmium
 Window Frames: Varnished Mahogany (?)
 Trucks & Ironwork: Black
 Wheels: Vermillion, Silver tires.

CONSTRUCTION NOTES

Vertical T & G Sheathing.
 Wood framed trucks - Equalized.
 Five truss rods.
 Outboard hand operated brakes.



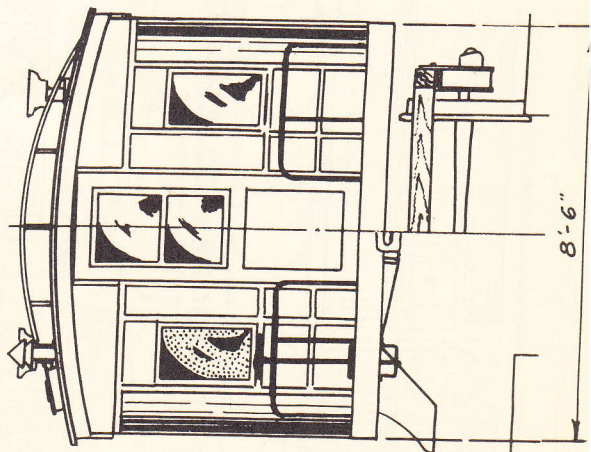
RADIAL, ROOF BAGGAGE	1860
Scale: 1/4" = 1'-0"	U. B. GRAFF



PAINT SCHEDULE

ROOF & PLATFORMS Yellow Ochre
 Roof fittings & Ironwork - Black
 Handrails Outshopped - Brass
 Sides Cadmium Orange (rich deep yellow)
 Truck Timbers Outshopped Natural
 Window Frames - Natural Mahogany.

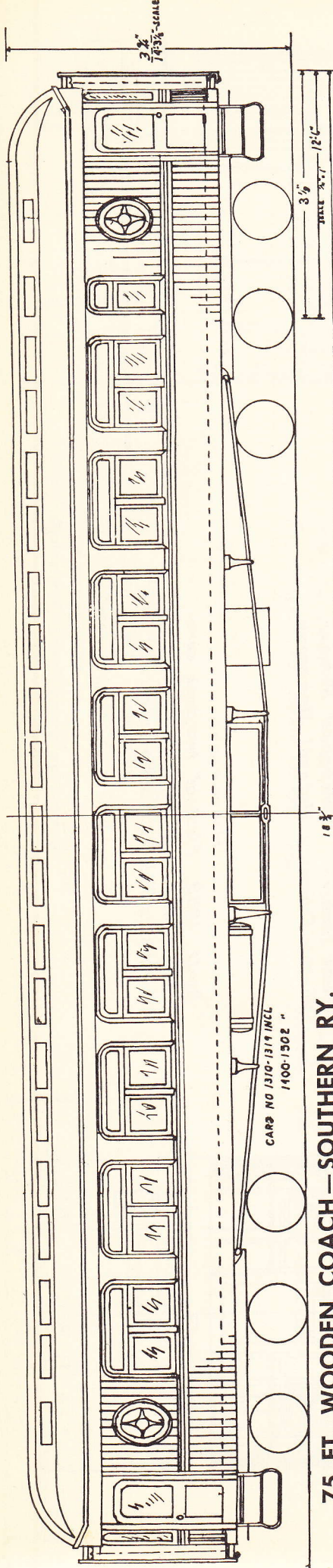
CONSTRUCTION NOTES
 Recessed panel construction.
 Oak frame trucks Non equalized
 Two truss rods
 Outboard brakes- Hand operated only.



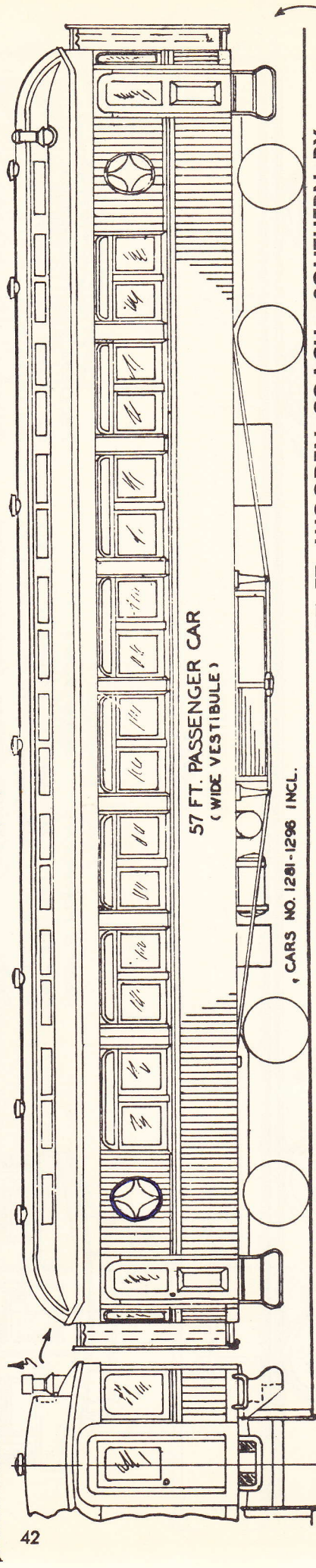
HISTORICAL
 Built 1859. First of two such cars
 Candle lit. Ten uppers, Ten lowers,
 Mattresses & blankets, but no sheets.

FIRST PULLMAN CAR

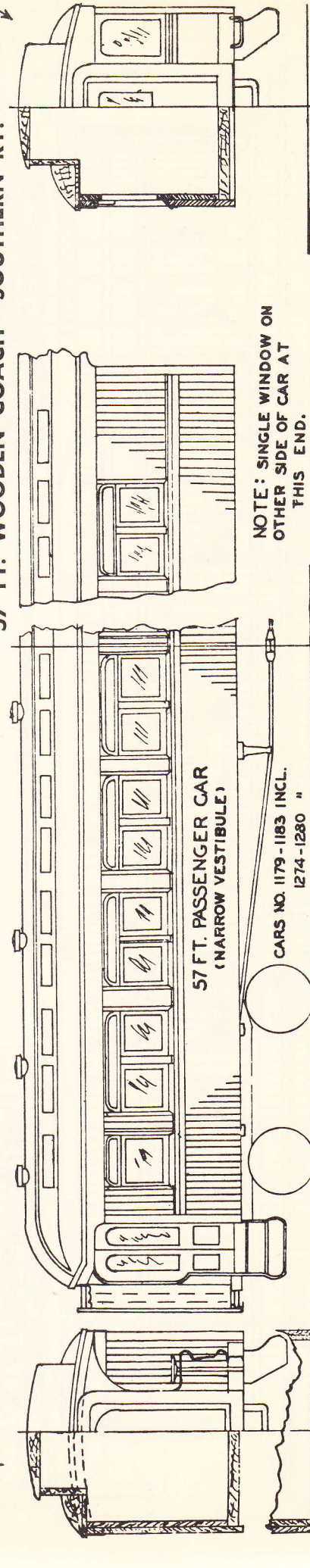
Scale: 1/4" = 1'-0" U.B. GRAFF



75 FT. WOODEN COACH—SOUTHERN RY.

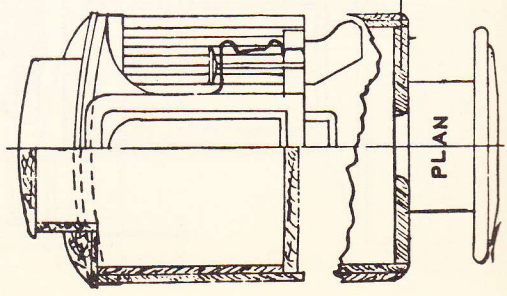


57 FT. WOODEN COACH—SOUTHERN RY.



57 FT. WOODEN COACH NARROW VESTIBULE—SOUTHERN RY.

NOTE: SINGLE WINDOW ON OTHER SIDE OF CAR AT THIS END.

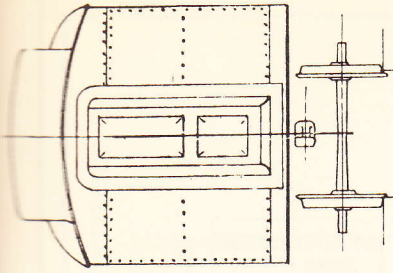
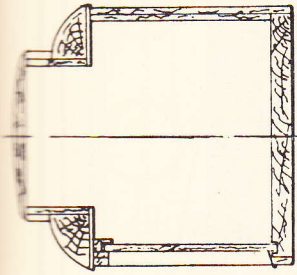
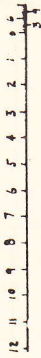
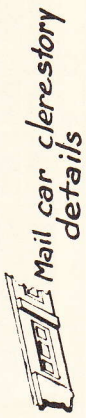


Drawings shown full size HO gauge

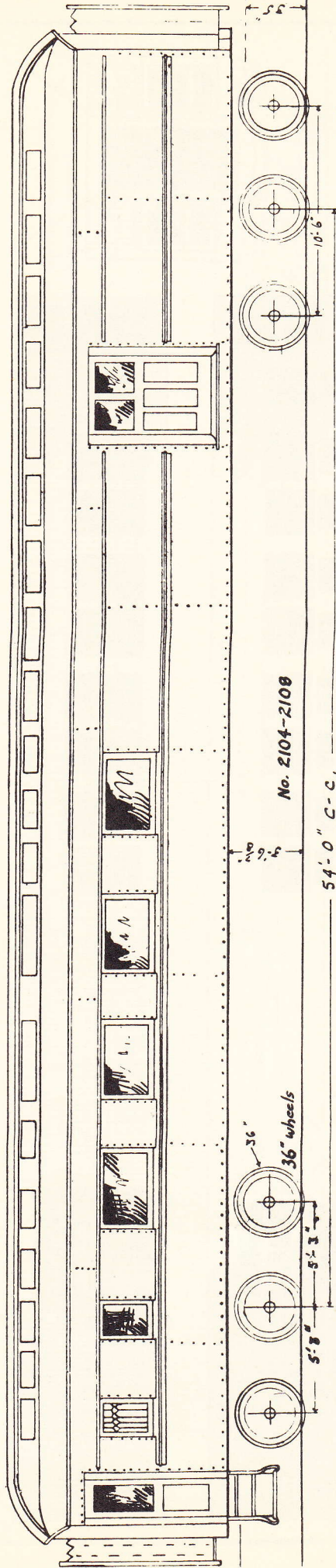
Southern Railway



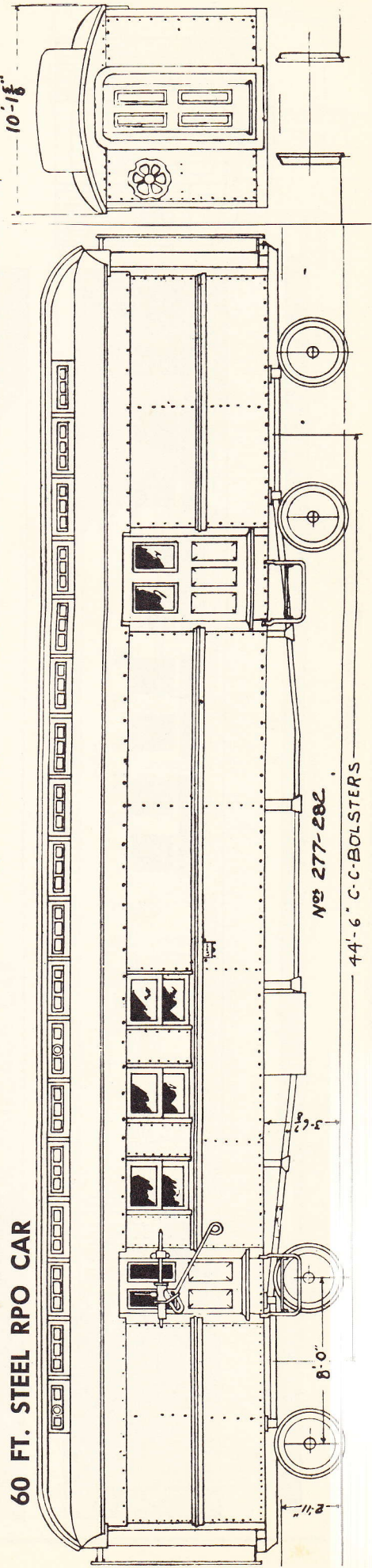
FULL SIZE HO GAUGE

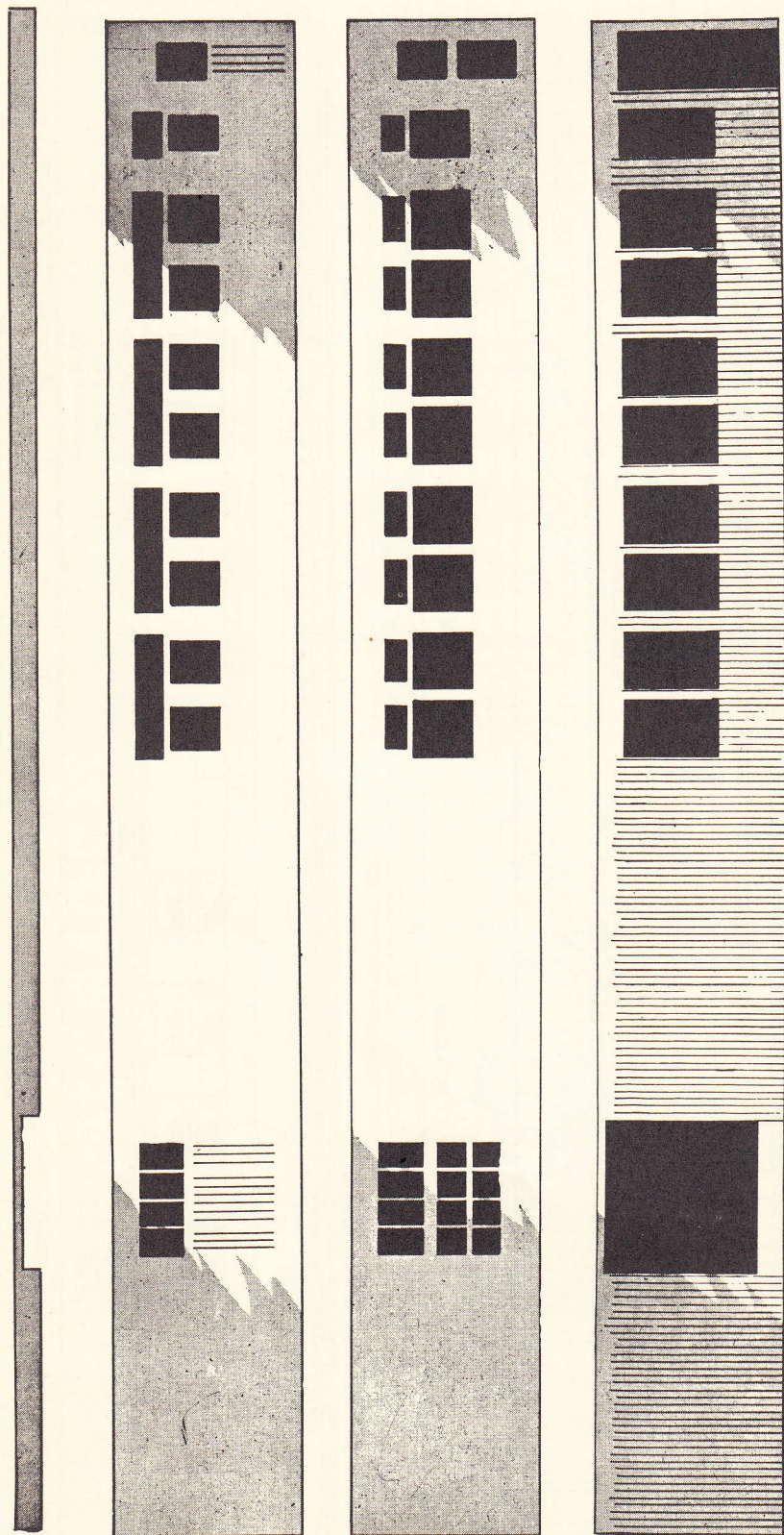


75 FT. SOUTHERN STEEL BAGGAGE-COACH COMBINE

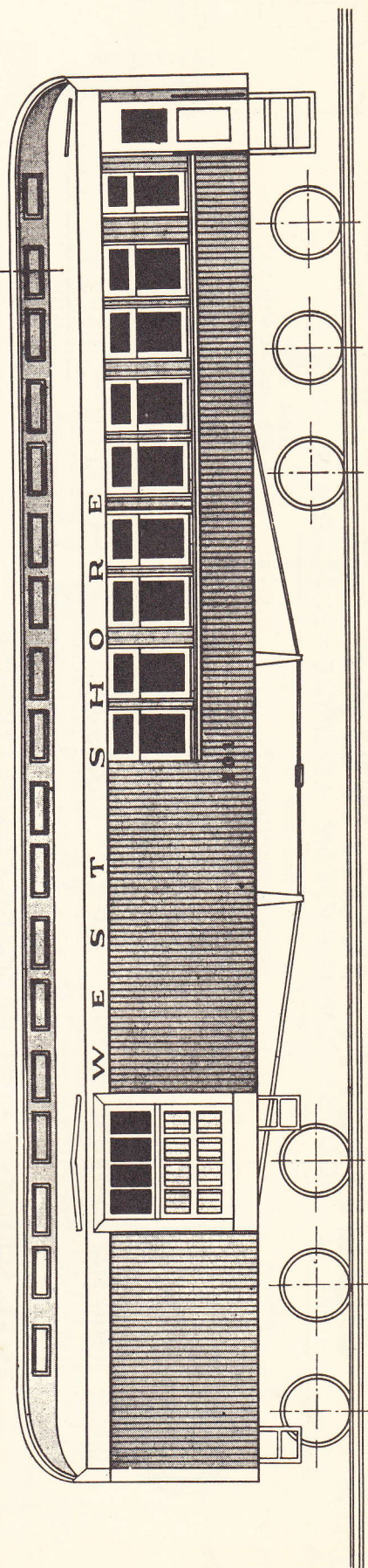


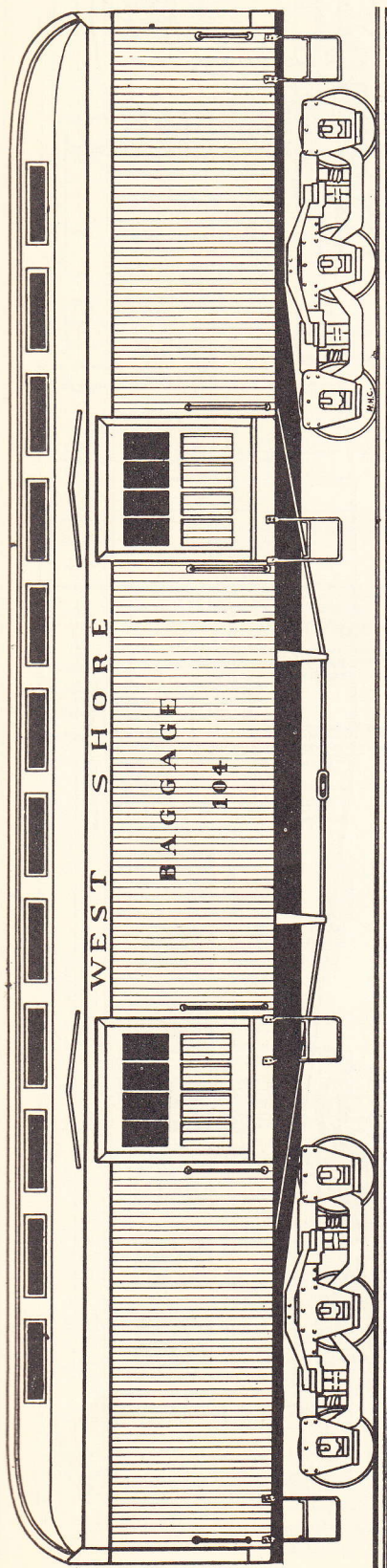
60 FT. STEEL RPO CAR





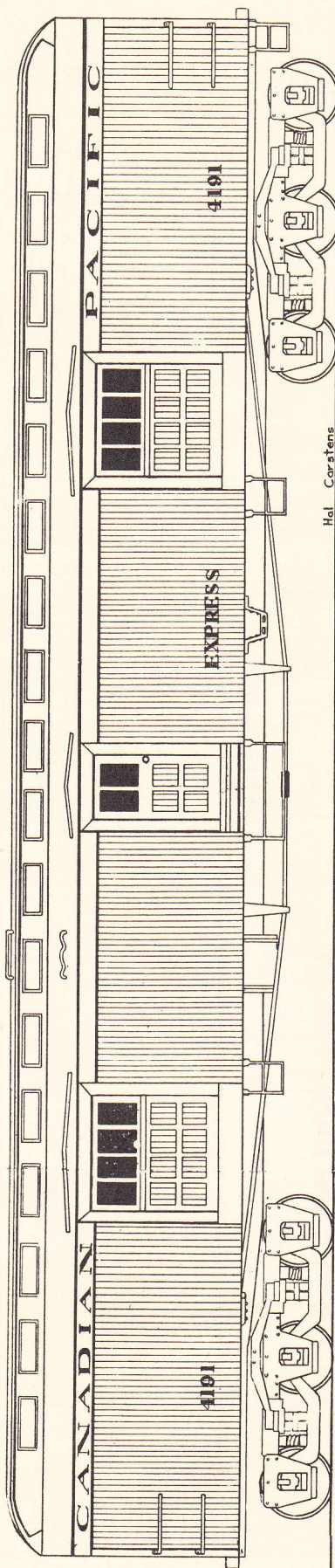
60 FT. WOODEN COMBINE



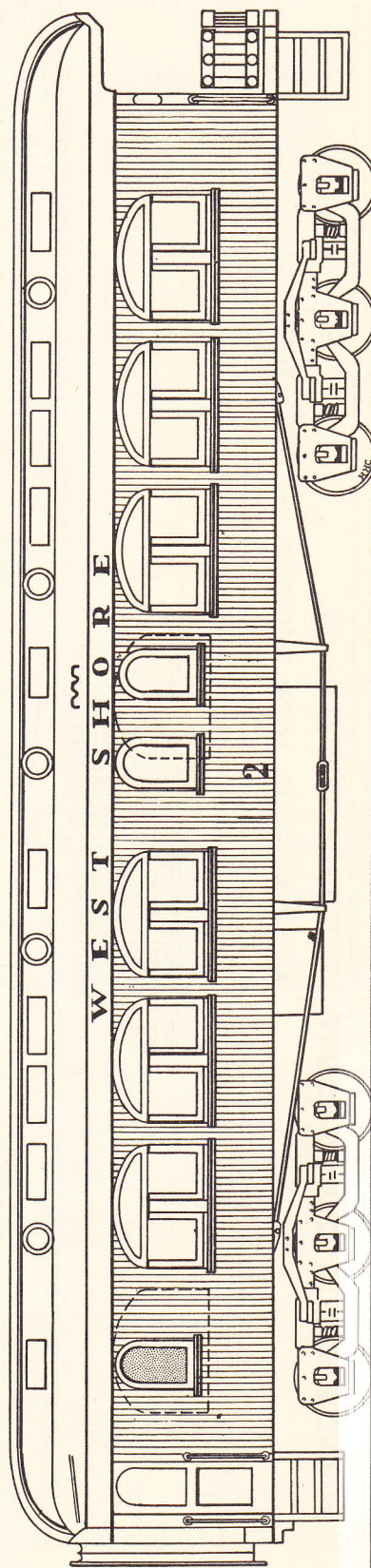


60 FT. WOODEN BAGGAGE CAR

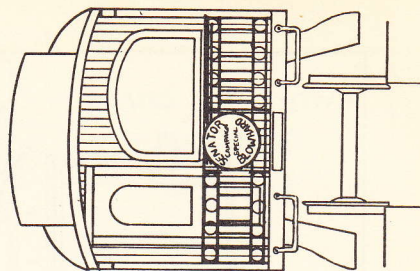
PLANS FULL SIZE HO GAUGE

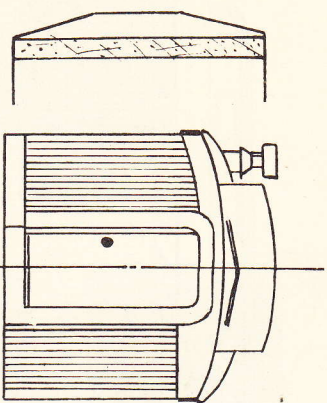
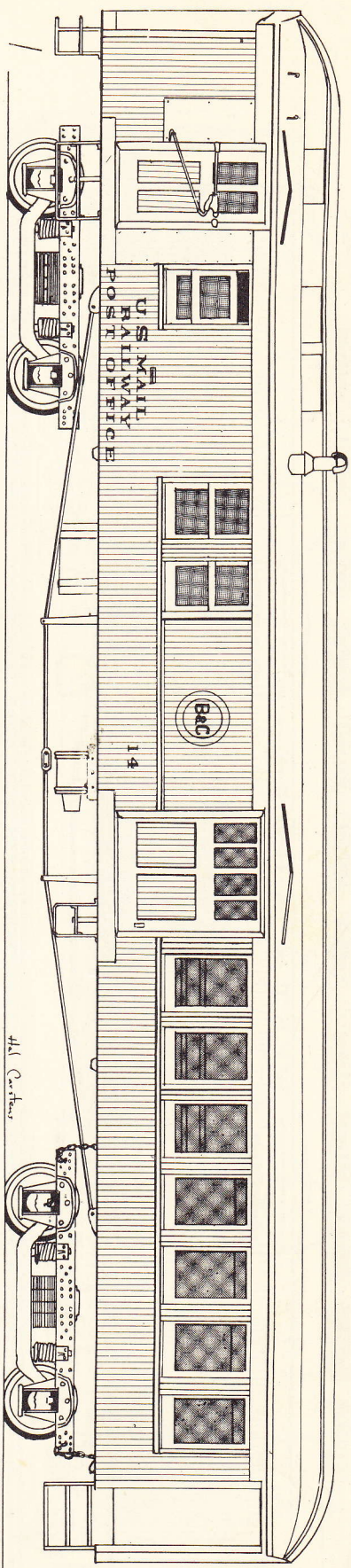


70 FT. CPR 6-DOOR BAGGAGE CAR



60 FT. WOODEN BUSINESS CAR

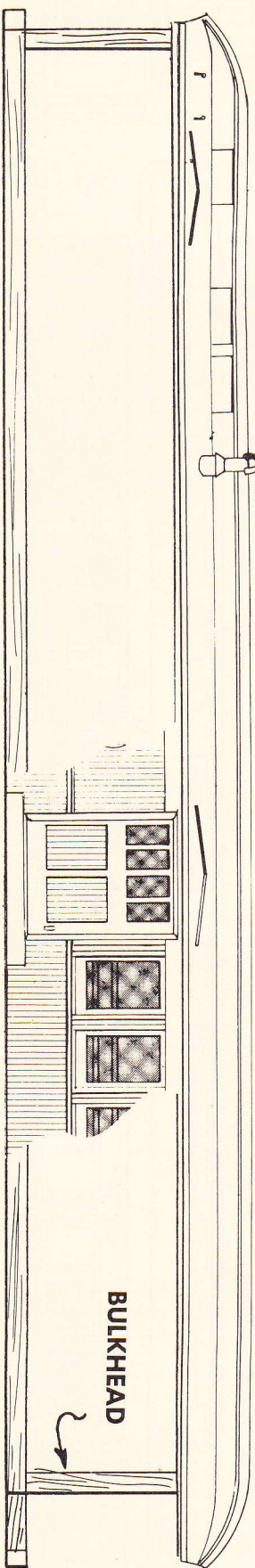




FLOOR SECTION

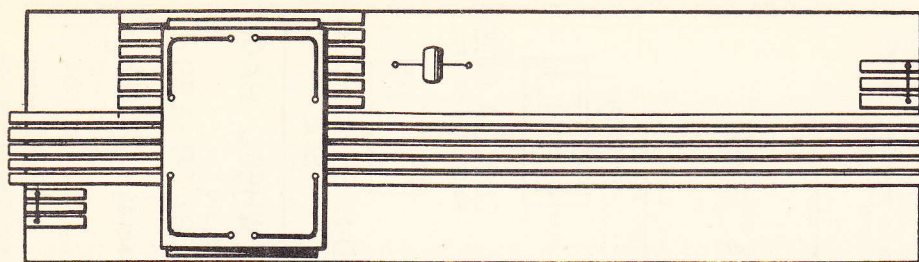
BAGGAGE CAR END PASSENGER SECTION END

DRAWING SHOWN FULL SIZE HO GAUGE

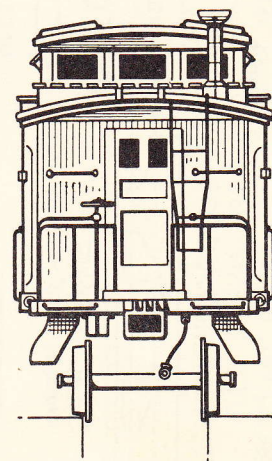
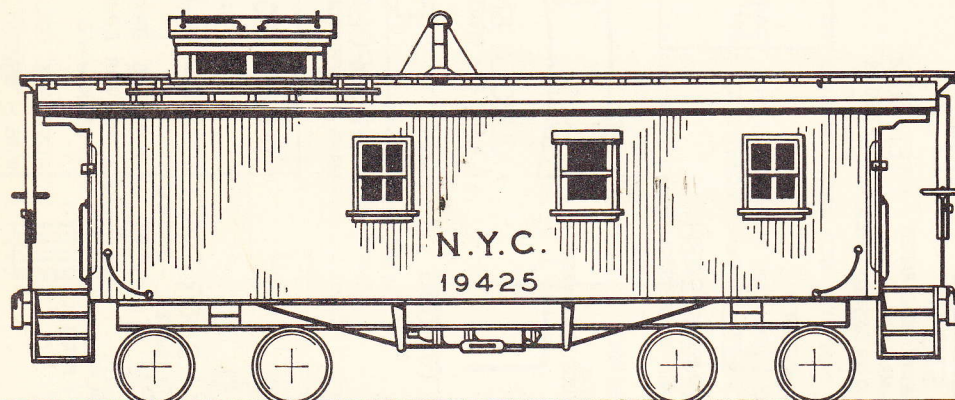


SIDE VIEW OF WOODEN BODY CONSTRUCTION

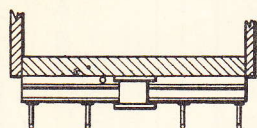
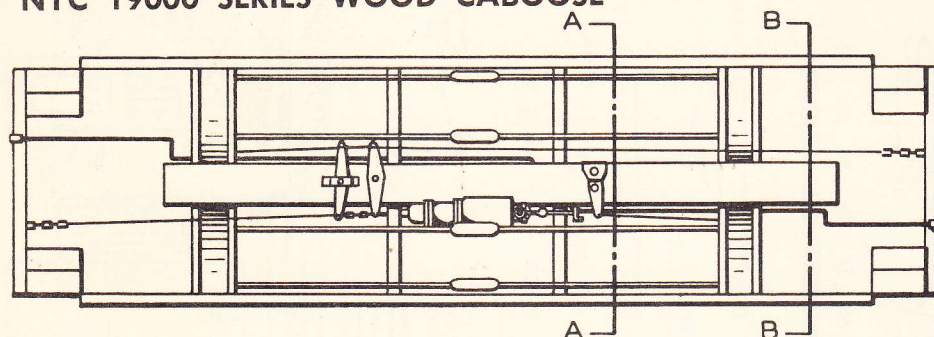
65 FT. BARRE & CHELSEA BAGGAGE-RPO-COACH COMBINE



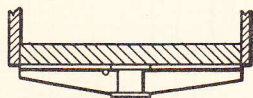
PLANS ARE SHOWN
FULL SIZE
HO GAUGE



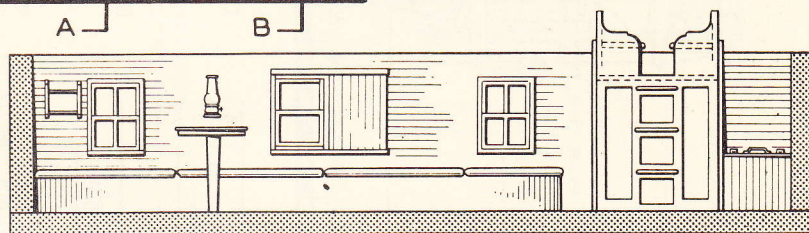
NYC 19000 SERIES WOOD CABOOSE



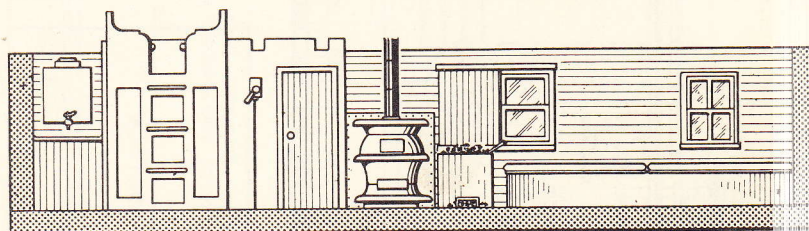
SECTION AA
AT CROSSBEARER



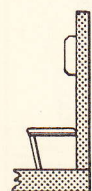
SECTION BB
AT BOLSTER



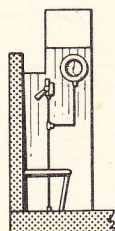
DESK SIDE



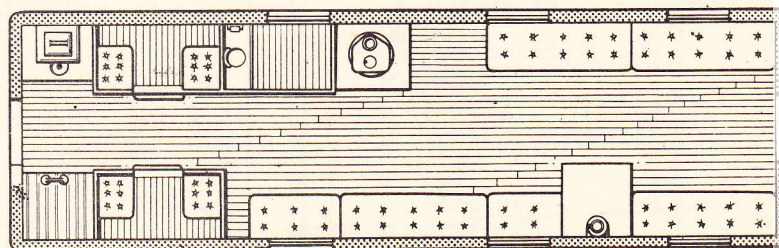
STOVE SIDE



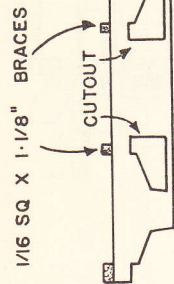
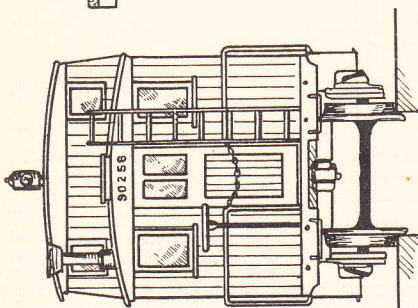
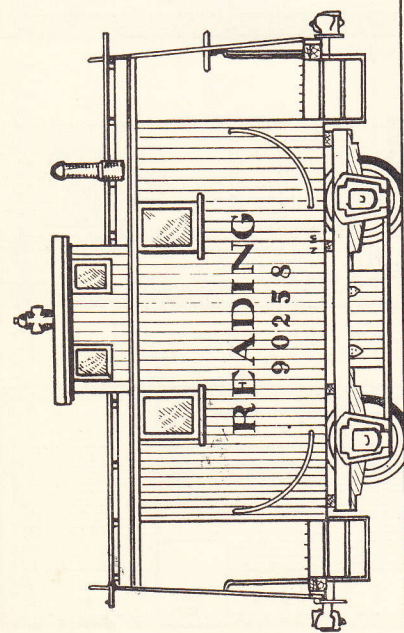
SECTION SHOWING
GLOBE RACK



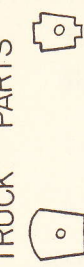
SECTION SHOWING
CONDUCTOR'S VALVE



INTERIOR - PLAN VIEW



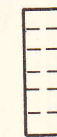
1/16 SQ X 1 1/8" BRACES



END BRACES
1/32" CARD
MAKE 4 OF EACH

END BRACES

SIDE FRAME
MAKE 2 - 1/32" WOOD OR CARD



STEPS

HEAVY BOND PAPER

MAKE 4

(FOLD ON DASHED LINES)



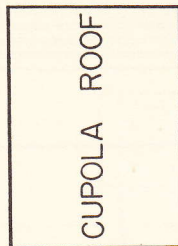
STEP SIDE

CARD STOCK

MAKE 8

MAKE 2 - WOOD

JOURNAL BOX
MAKE 4 - WOOD

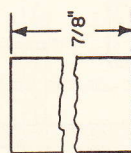


CUPOLA ROOF

WINDOW SASH
MAKE 8 - BRISTOL

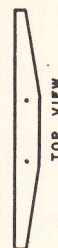


ROOF
CARDSTOCK



WOOD

TOOL BOX



TOP VIEW

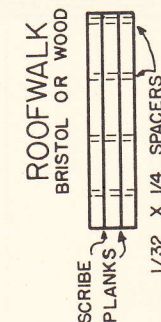


END VIEW

END SILL

WOOD

MAKE 2



ROOFWALK
BRISTOL OR WOOD

SCRIBE
PLANKS

1/32 X 1/4 SPACERS

CEMENT BOND PAPER
AROUND TOP OF BODY,
END
MAKE 2

CARD STOCK

SCRIBE

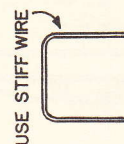
1/32" SQ
BITS UNDER
WINDOWS



STOVE PIPE

WOOD DOWEL WITH
HOOD OF BENT PAPER

RAILING
MAKE 4

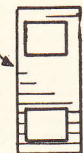


USE STIFF WIRE

CUPOLA END
MAKE 2 - BRISTOL



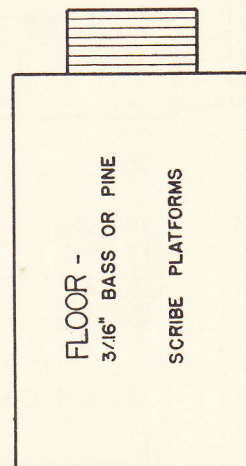
SCRIBE



CUPOLA SIDE
MAKE 2 - BRISTOL

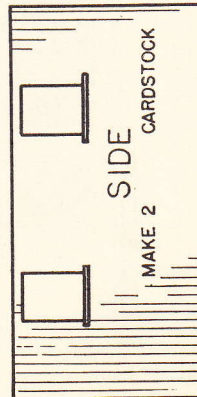


SASH-CUPOLA END SASH-CUPOLA
SIDE
MAKE 2 - BRISTOL



FLOOR -
3/16" BASS OR PINE

SCRIBE PLATFORMS



SIDE

MAKE 2
CARDSTOCK

CUTOUT
WINDOWS
8 PANEL
DOOR PANEL
MAKE 2 - BRISTOL



DOOR
MAKE 2 - BRISTOL

READING 4-WHEEL HACK

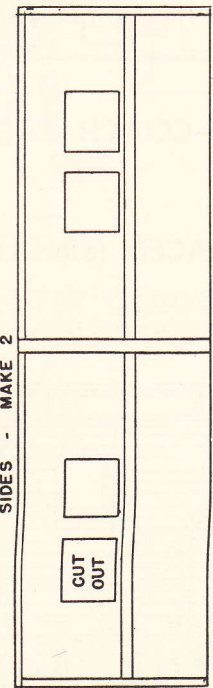
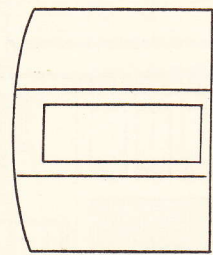
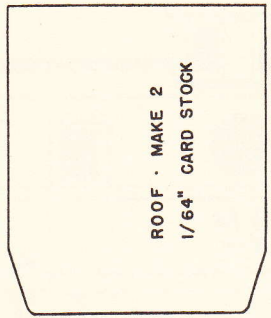
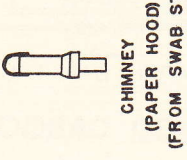
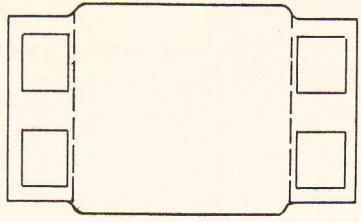
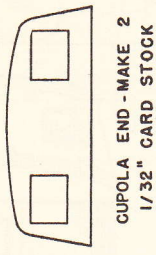
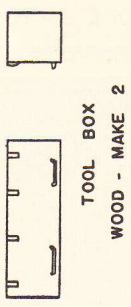
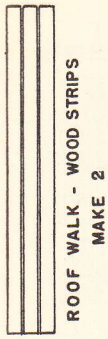
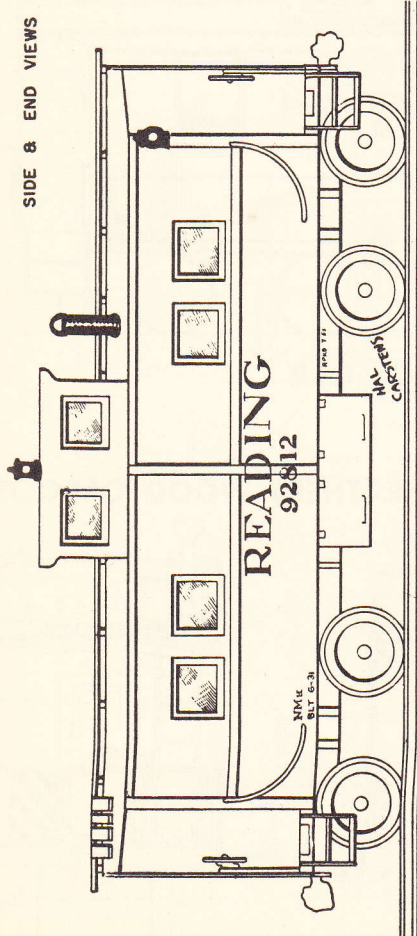
FULL SIZE HO

BUILD IT FOR 39¢ OR LESS!

4 WHEELS ON TWO AXLES..... .25
1 PR. AAR COUPLERS..... .10
1 BRAKEWHEEL..... .04

ALSO, THE FOLLOWING SCRAPBOX PARTS,
WIRE - BRISTOL BOARD - LADDER - WOOD

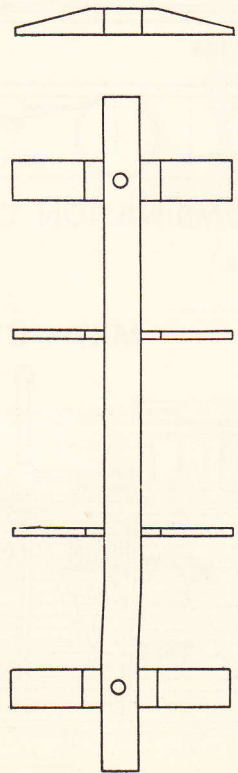
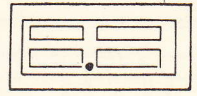
SIDE & END VIEWS



COVER ALL WINDOW OPENINGS
WITH CELLULOID.

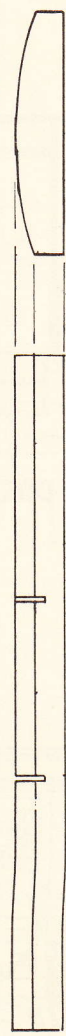
GLUE ANGLE PIECES OVER CORNERS
AFTER ASS'BY WITH ENDS.

DOORS
MAKE 2



MAKE
2 FROM 1/16" WOOD
2 FROM 3/16" WOOD

CUPOLA ENDS FIT SLOTS



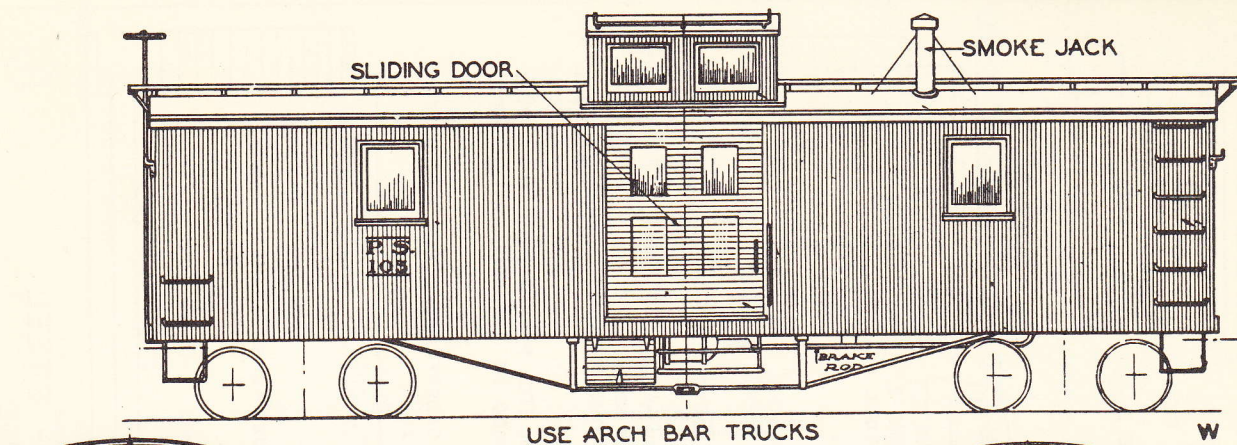
SCRIBE ENDS
FOR PLANKING

BEND ALL RAILINGS, GRAB IRONS, ETC., FROM APPROX. #24 WIRE
STEPS CAN BE CARD & BASSWOOD OR COMMERCIAL. OTHER PARTS
ARE COMMERCIAL.

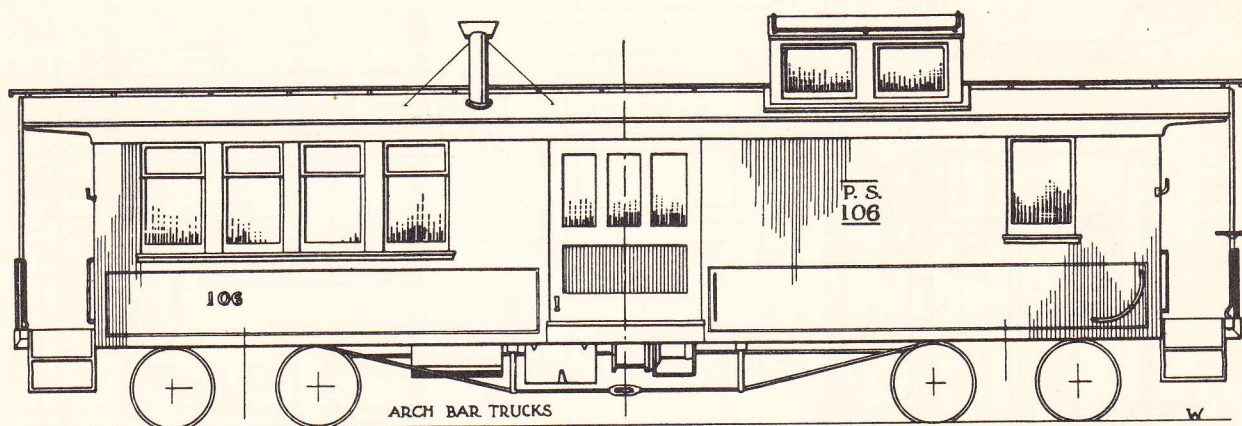
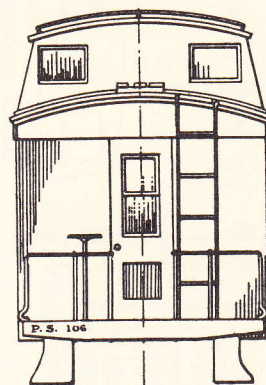
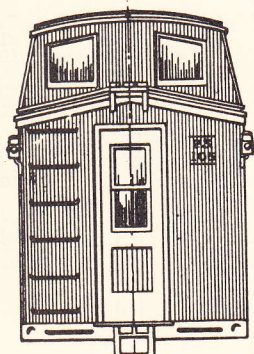
PAINT: BOX CAR RED BODY, UNDERFRAME BLACK OR DUSTY.
LETTERING: WHITE.

READING CABOOSE - STEEL
FULL SIZE HO GAUGE

DESIGNED FOR RAILROAD MODEL CRAFTSMAN BY C. K. FOCHT

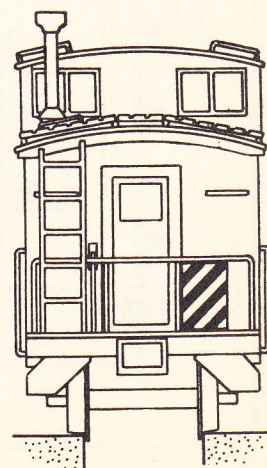
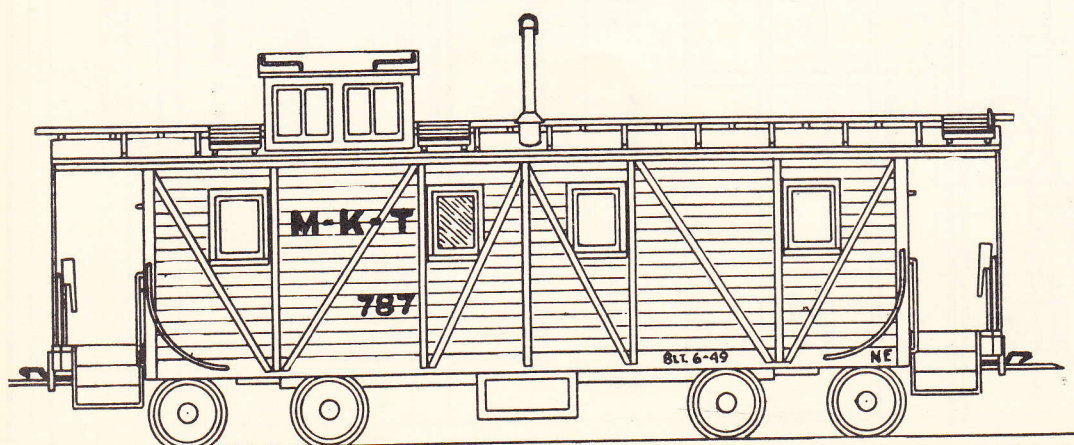


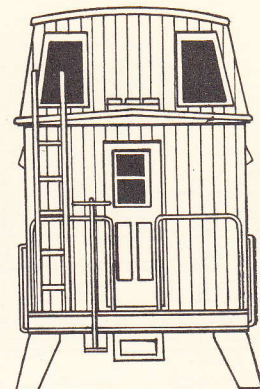
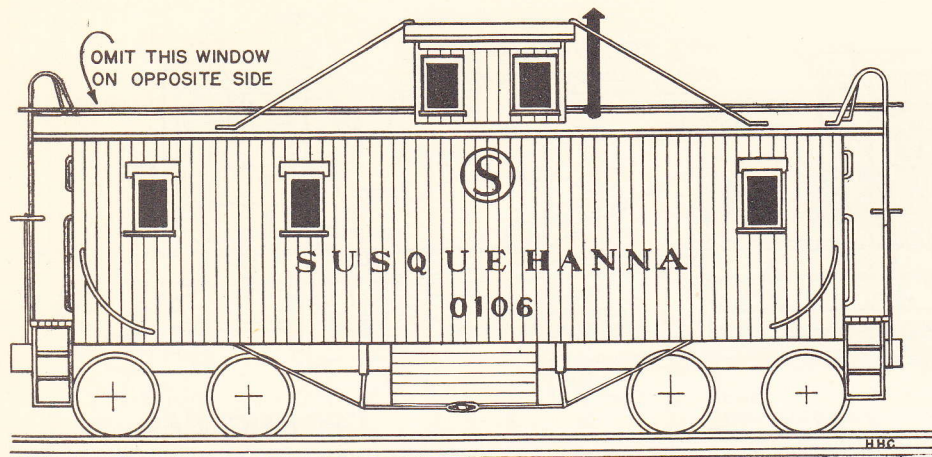
SIDE DOOR WOOD CABOOSE



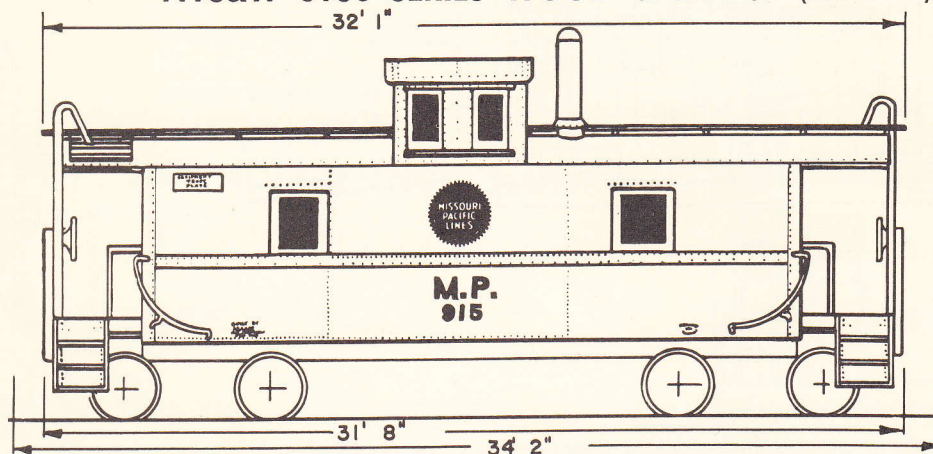
DROVER COMBINATION CABOOSE-COACH-BAGGAGE CAR

MKT OUTSIDE BRACED (SINGLE SHEATHED) WOOD CABOOSE



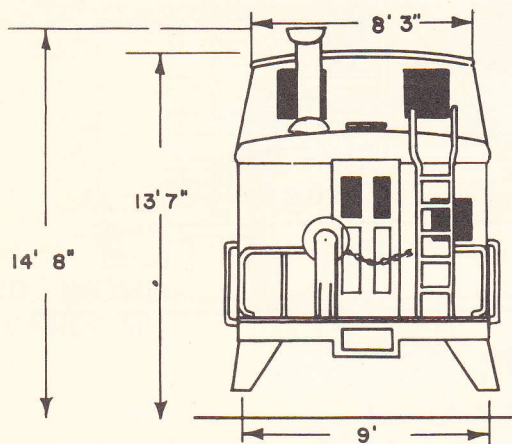


NYS&W 0100 SERIES WOOD CABOOSE (EX-ERIE)

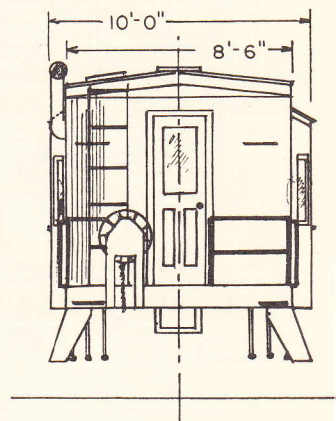


MOPAC 910 SERIES STEEL CABOOSE

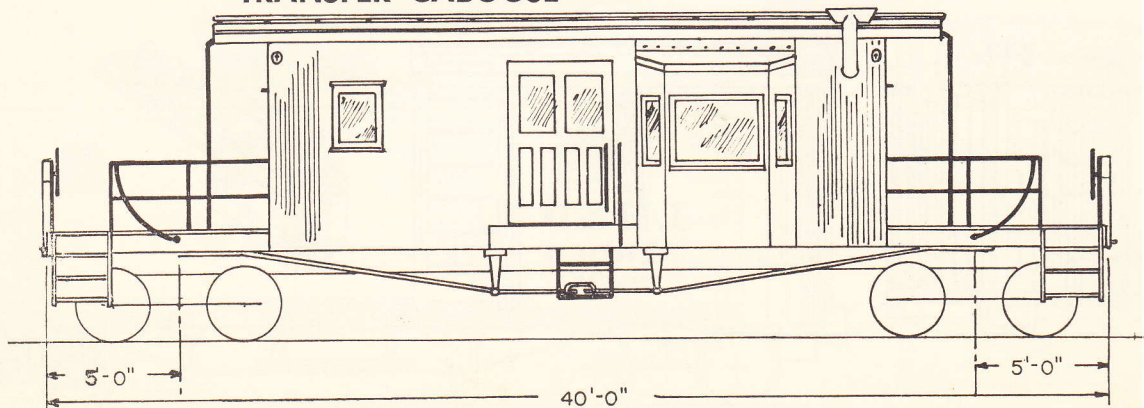
SERIES 910-934

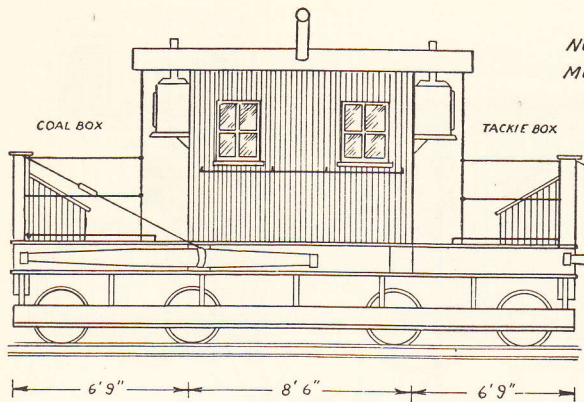


*Plans
Full
Size
for HO
Gauge*

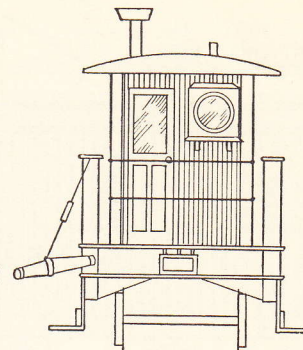


TRANSFER CABOOSE





NOTE: FOR ACTUAL USE THIS
MODEL SHOULD BE WEIGHTED

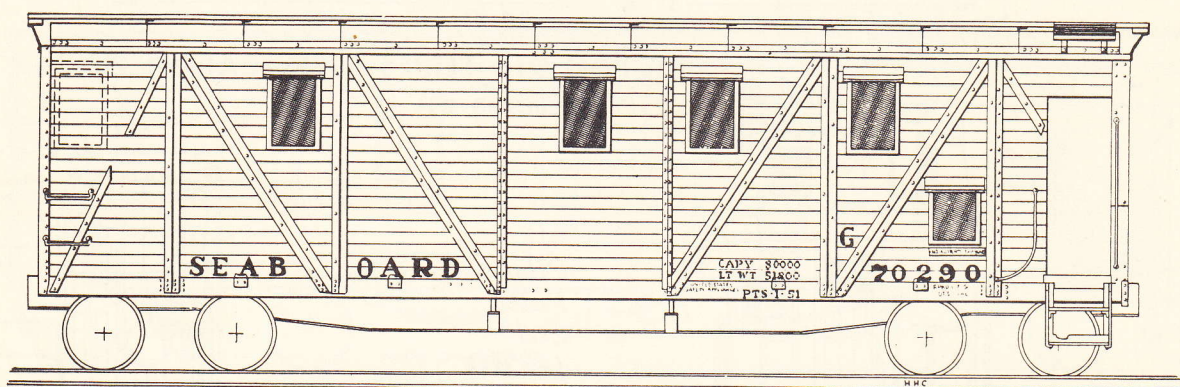
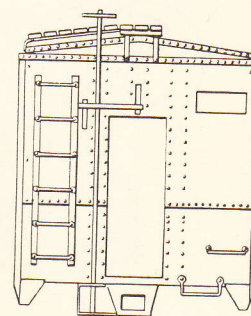
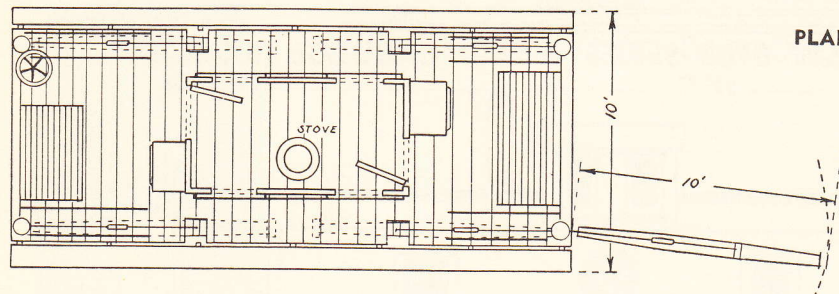


EQUIP CAR WITH
ARCH BAR OR FOX TRUCKS

SEE PAGE

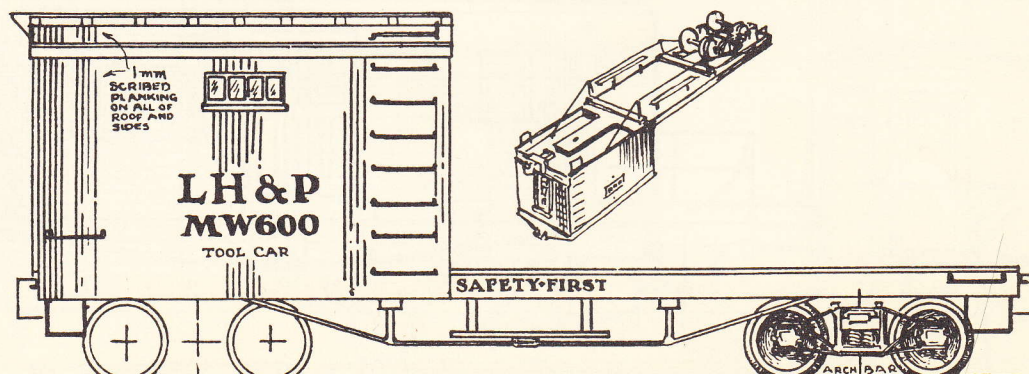
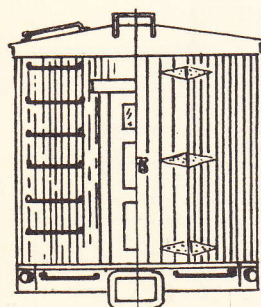
POLING CAR

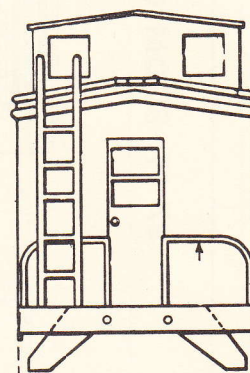
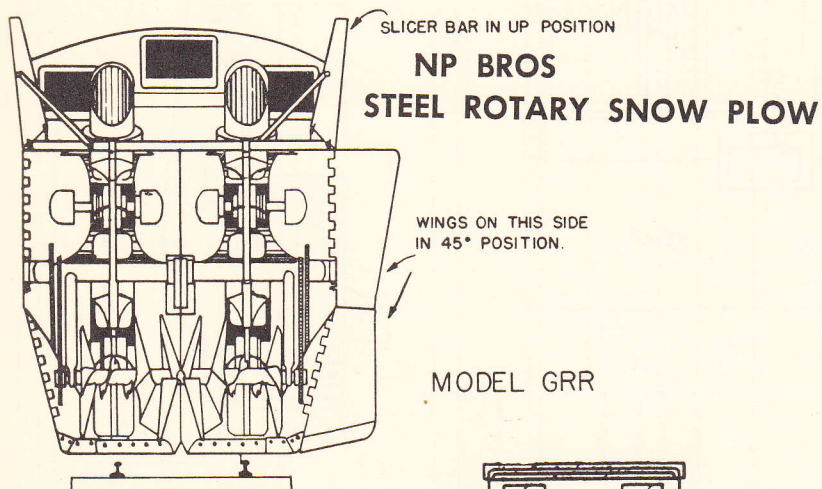
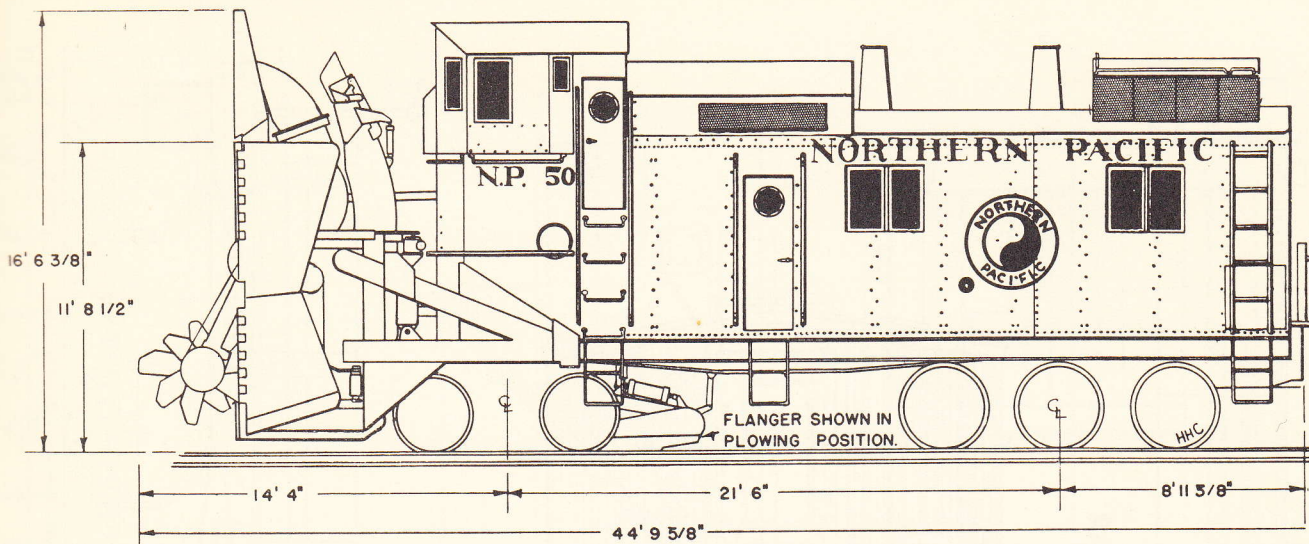
PLANS FULL SIZE FOR HO GAUGE



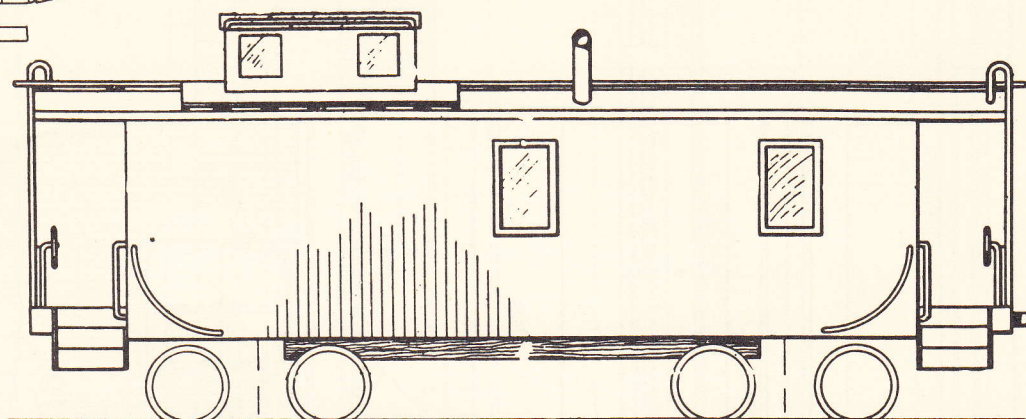
SAL BUNK CAR OUTSIDE BRACED

BOOM CAR

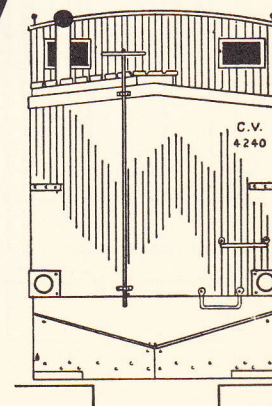
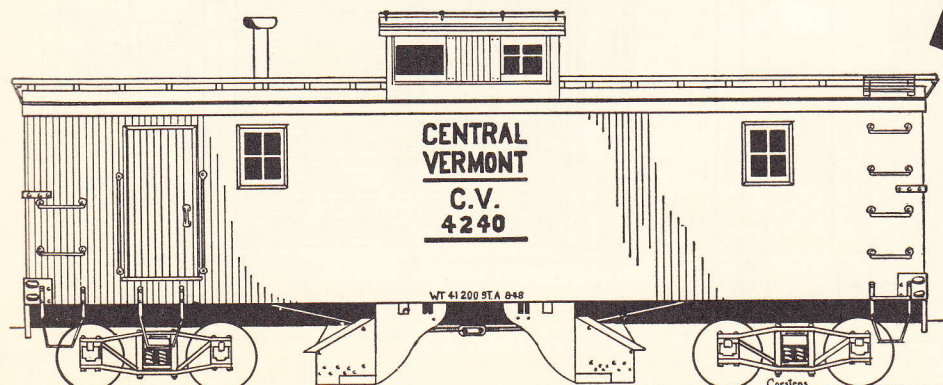


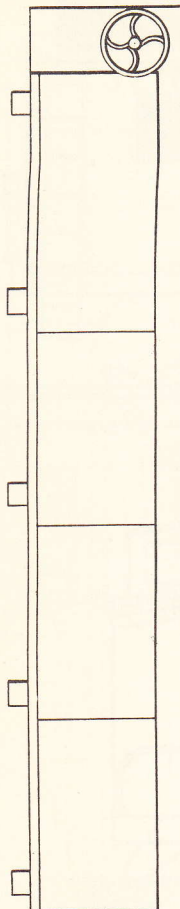


STD WOOD
CABOOSE

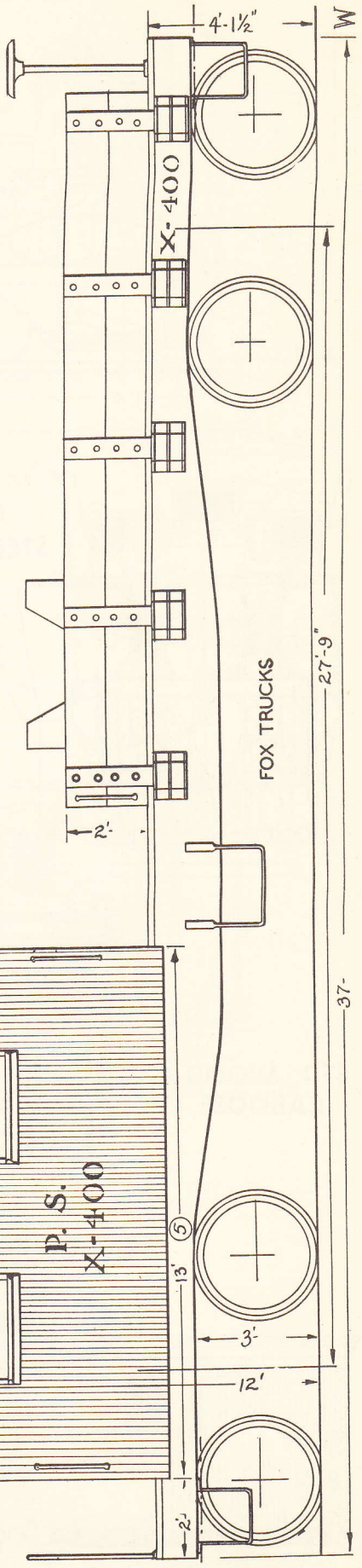
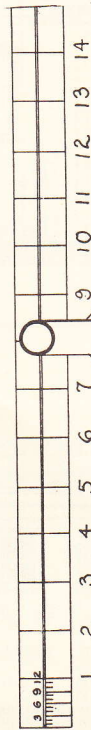
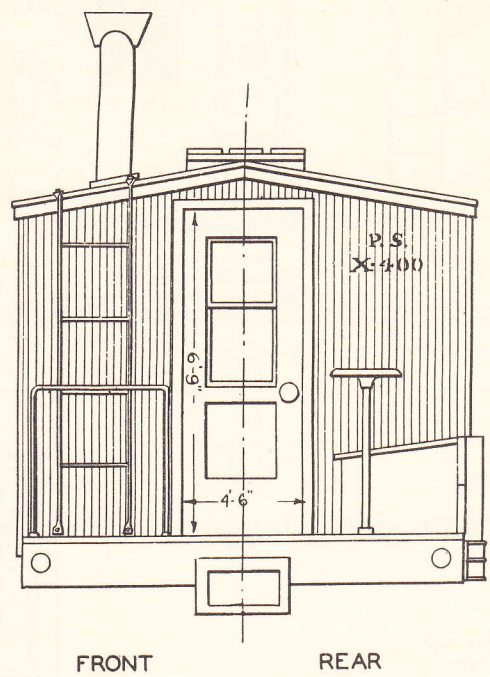
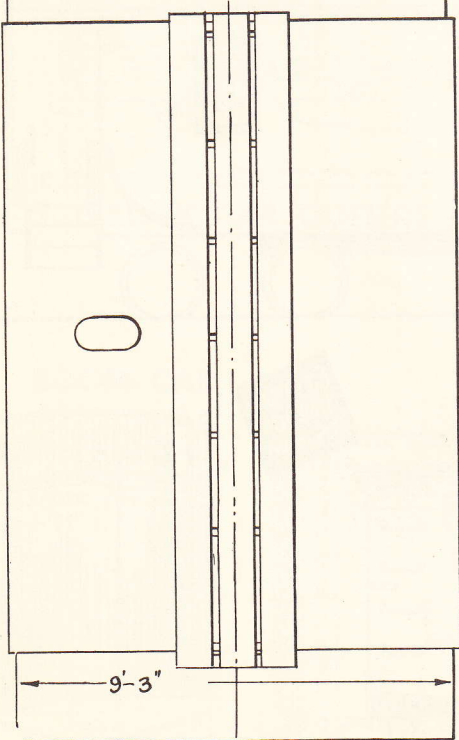


CV SNOW FLANGER





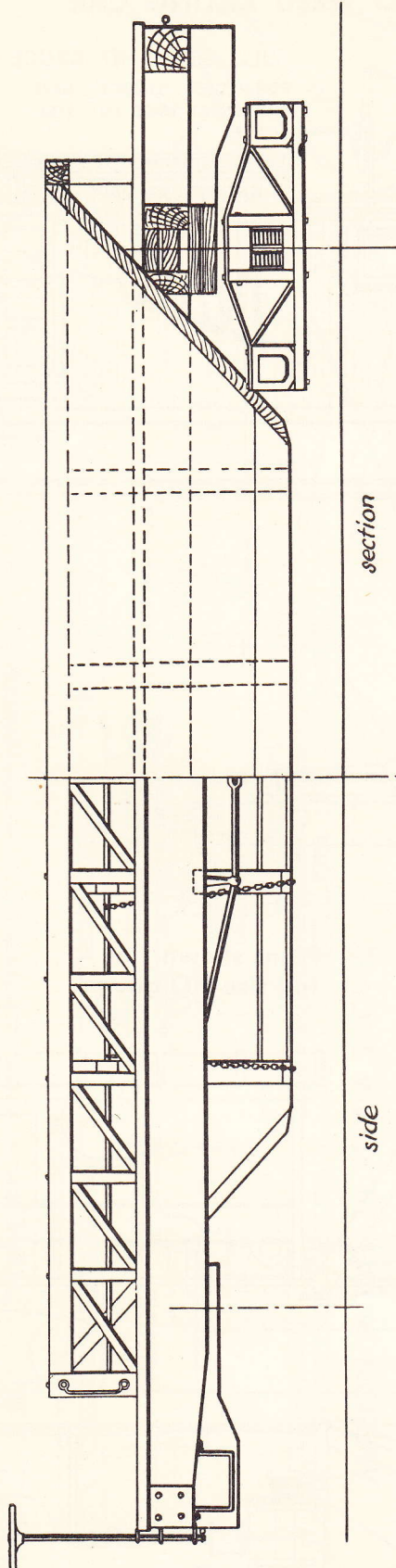
37 FT. BOOM CAR



Full Size O Gauge 1/4" Scale

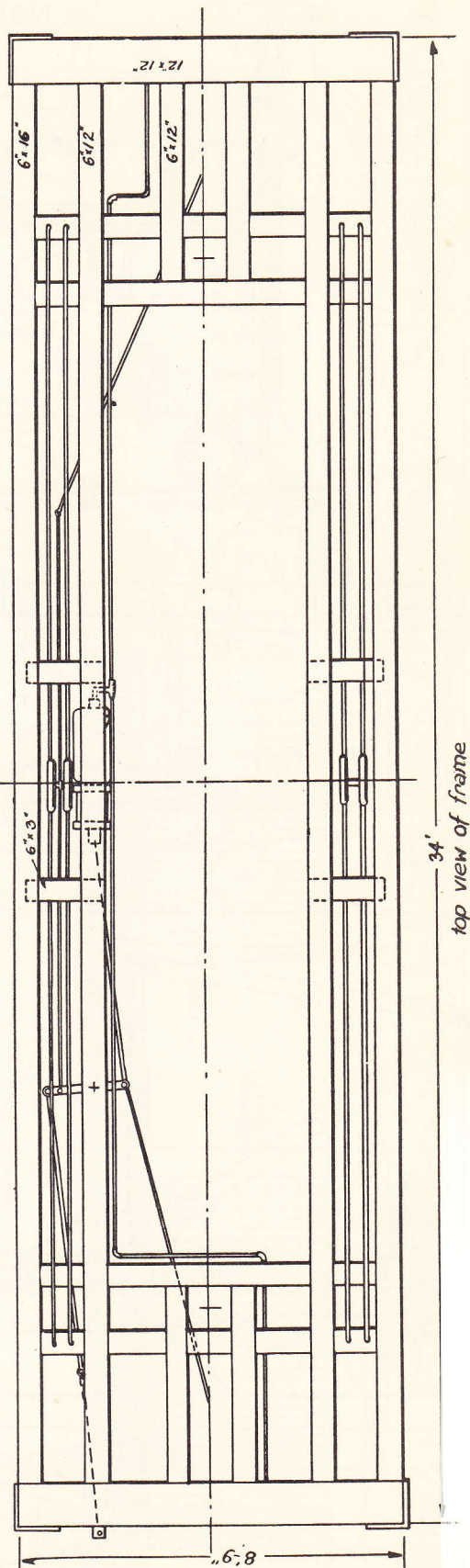
JANNIE COUTLER	ATR BRUCE	THE WOLF & FRENCH CO. BUILDERS CHICAGO, ILL.	ROAD INITIALS	000	LENGTH 34 FT.	CAPX. 80,000 LBS. WT. 250,000 LBS.
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lettering

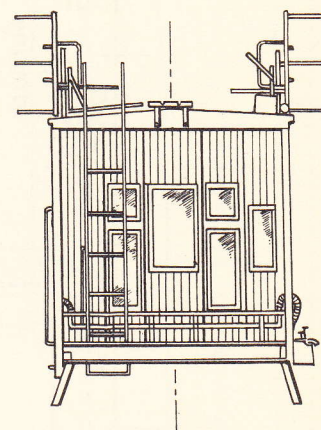
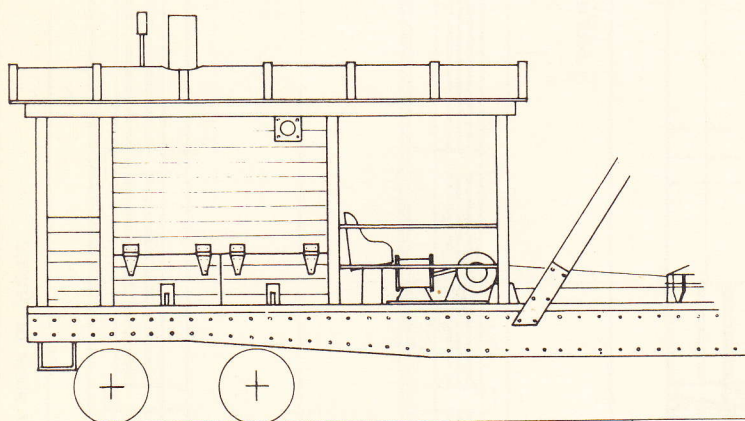
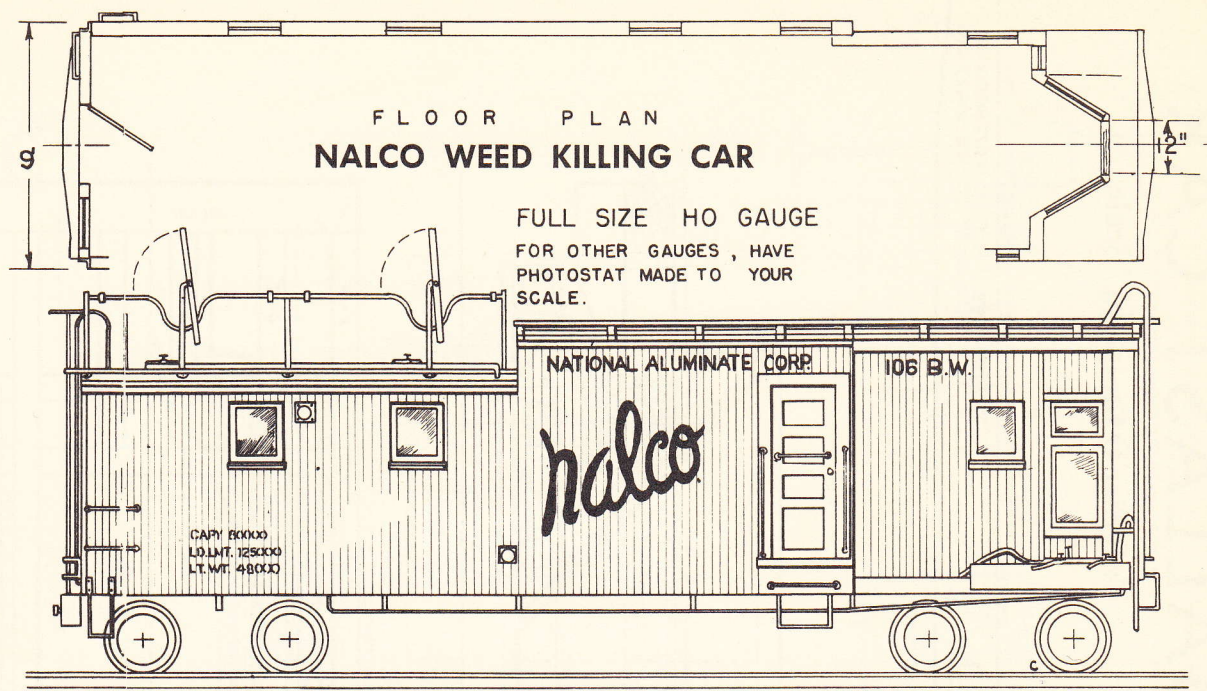


side

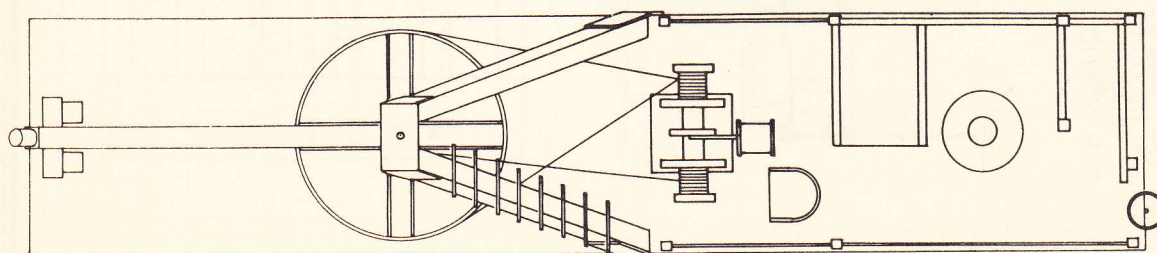
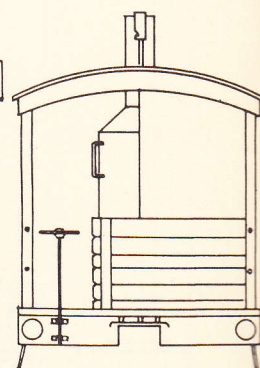
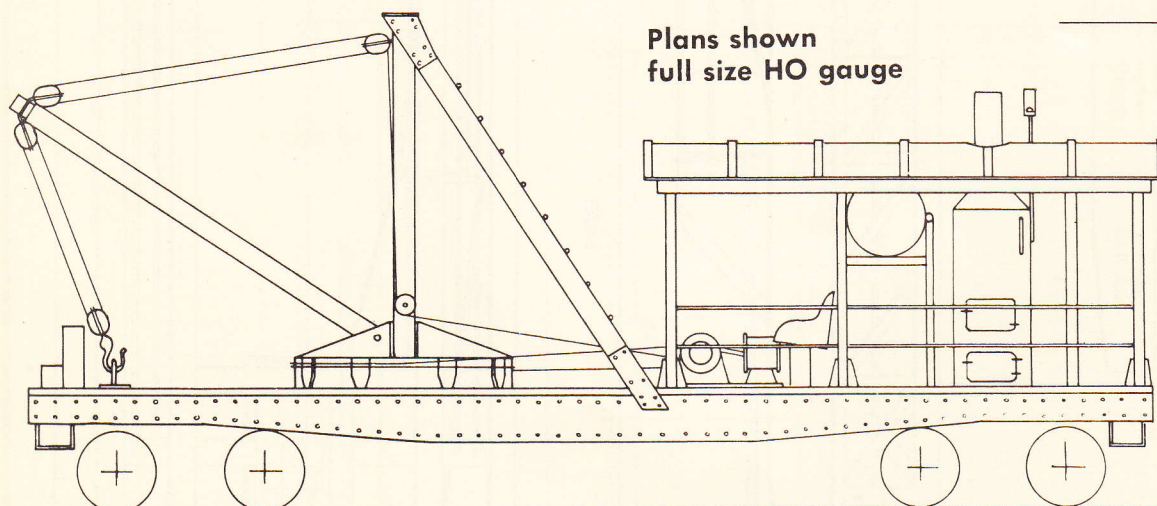
section

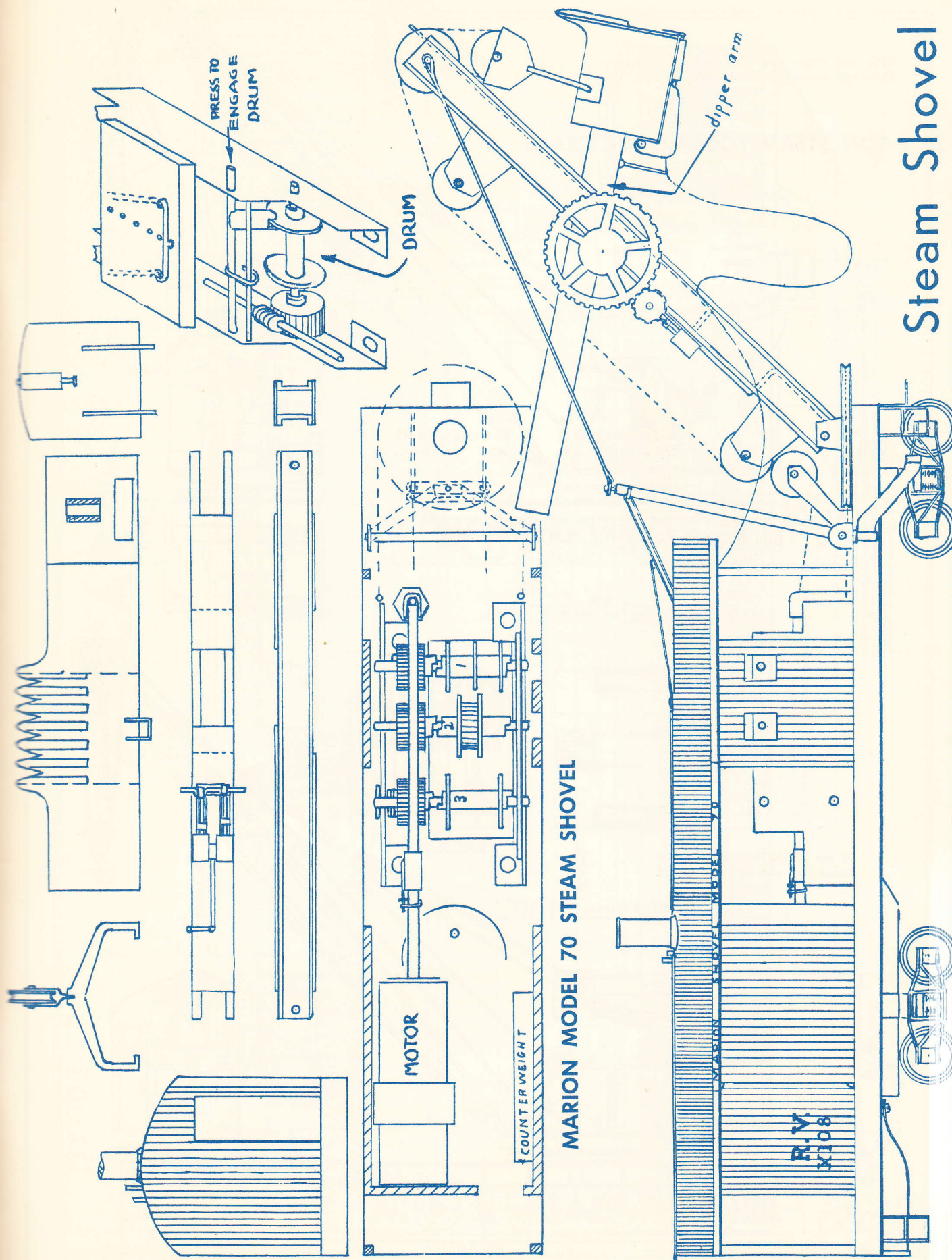


top view of frame



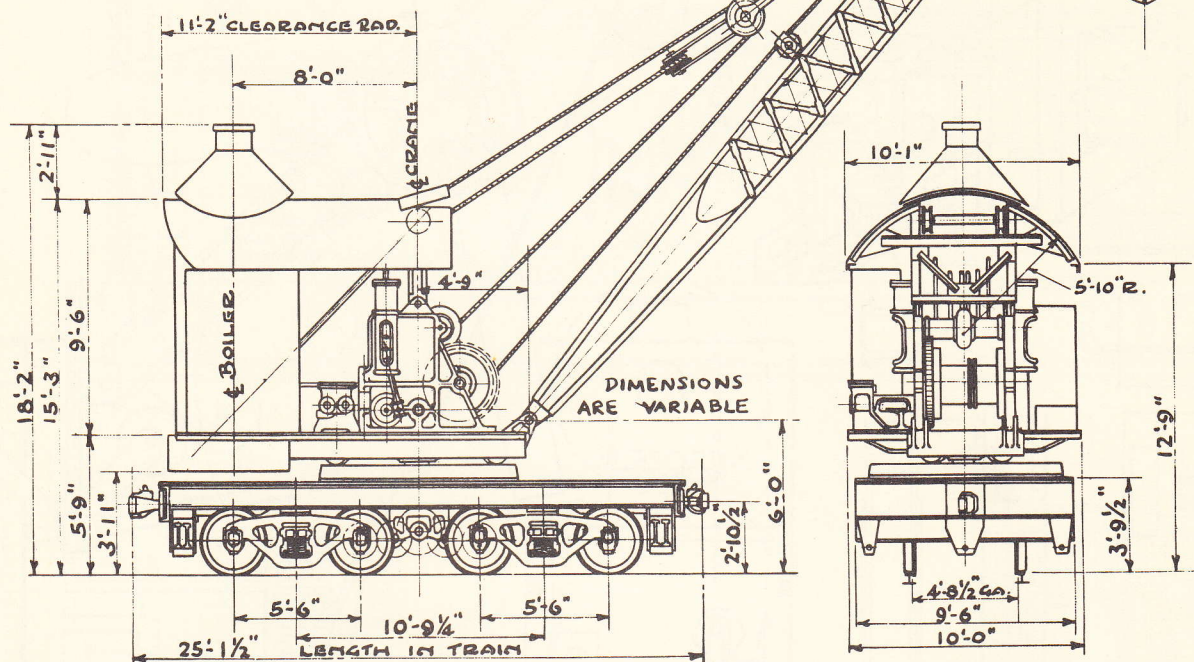
Plans shown
full size HO gauge



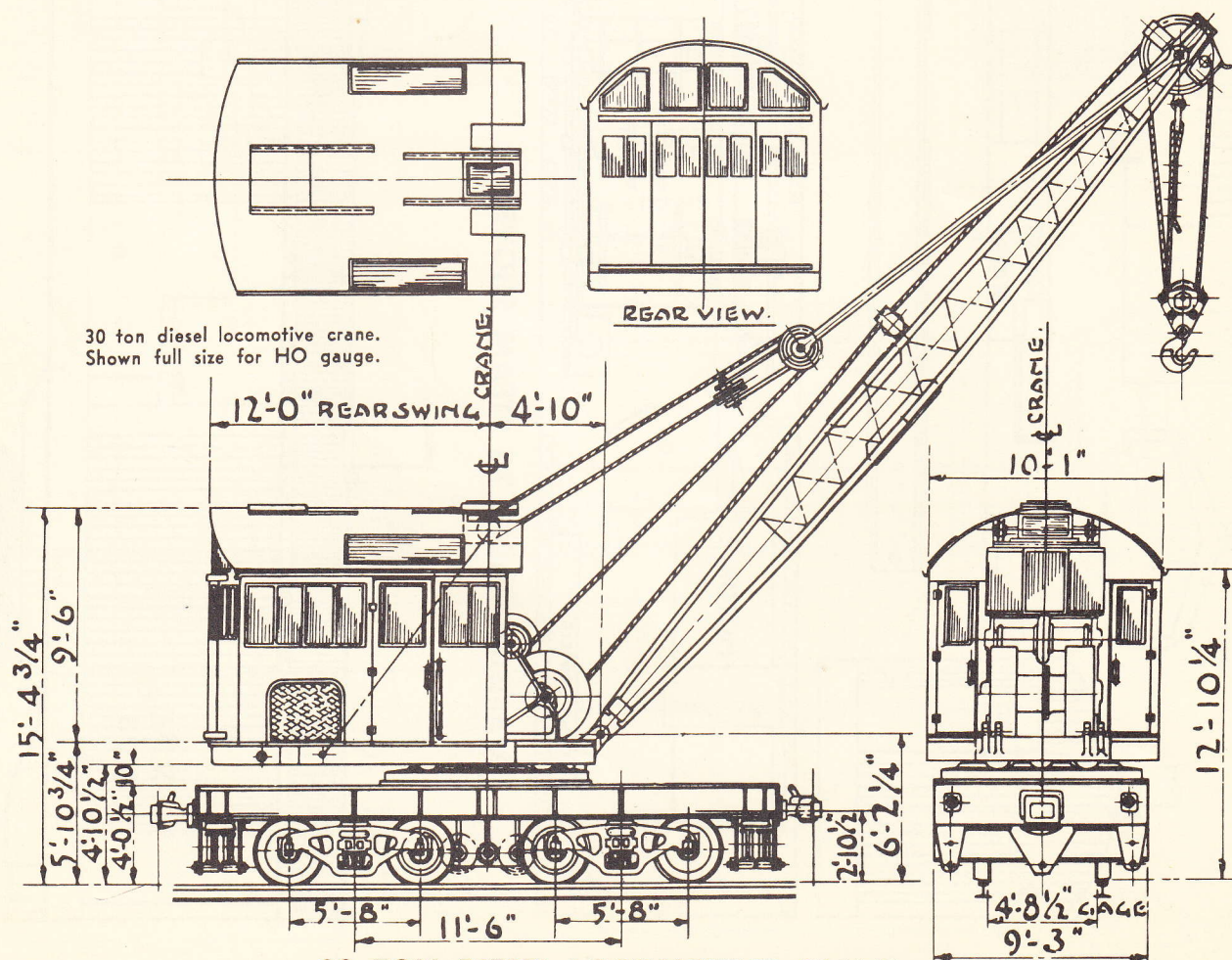


22½ ton steam operated locomotive crane.
Drawings shown full size for HO Gauge.

22½ TON STEAM LOCOMOTIVE CRANE

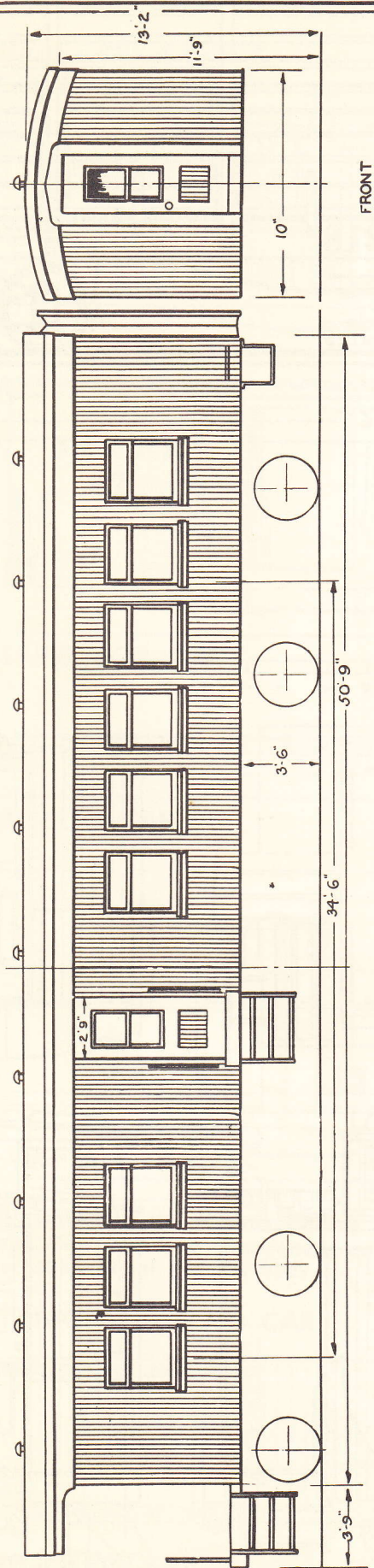


30 ton diesel locomotive crane.
Shown full size for HO gauge.

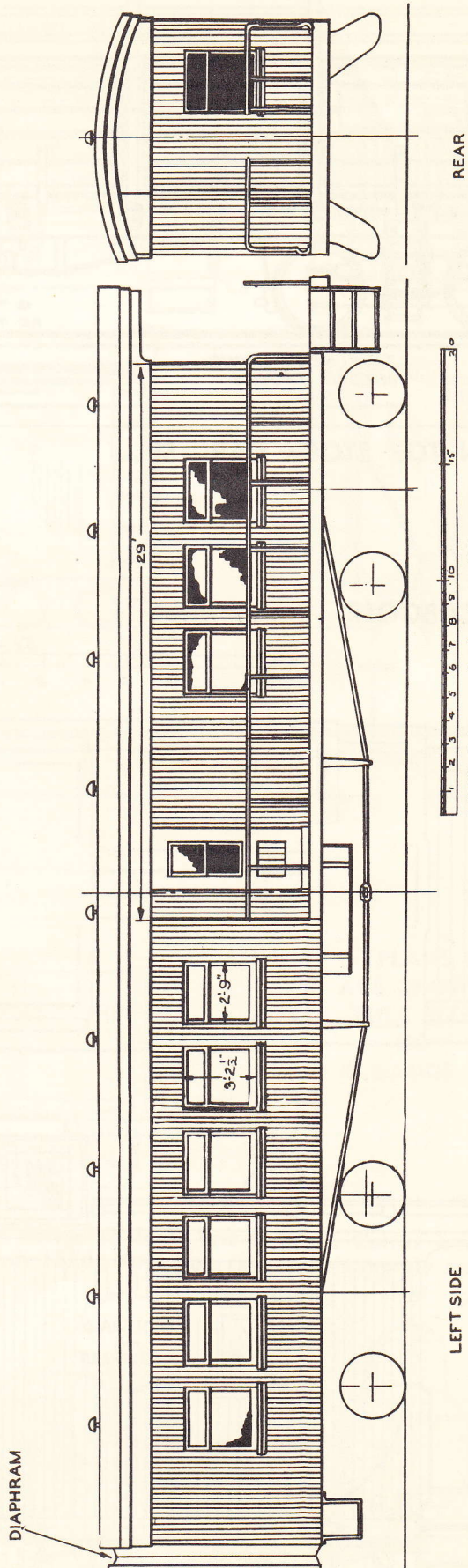


30 TON DIESEL LOCOMOTIVE CRANE

PAY CAR

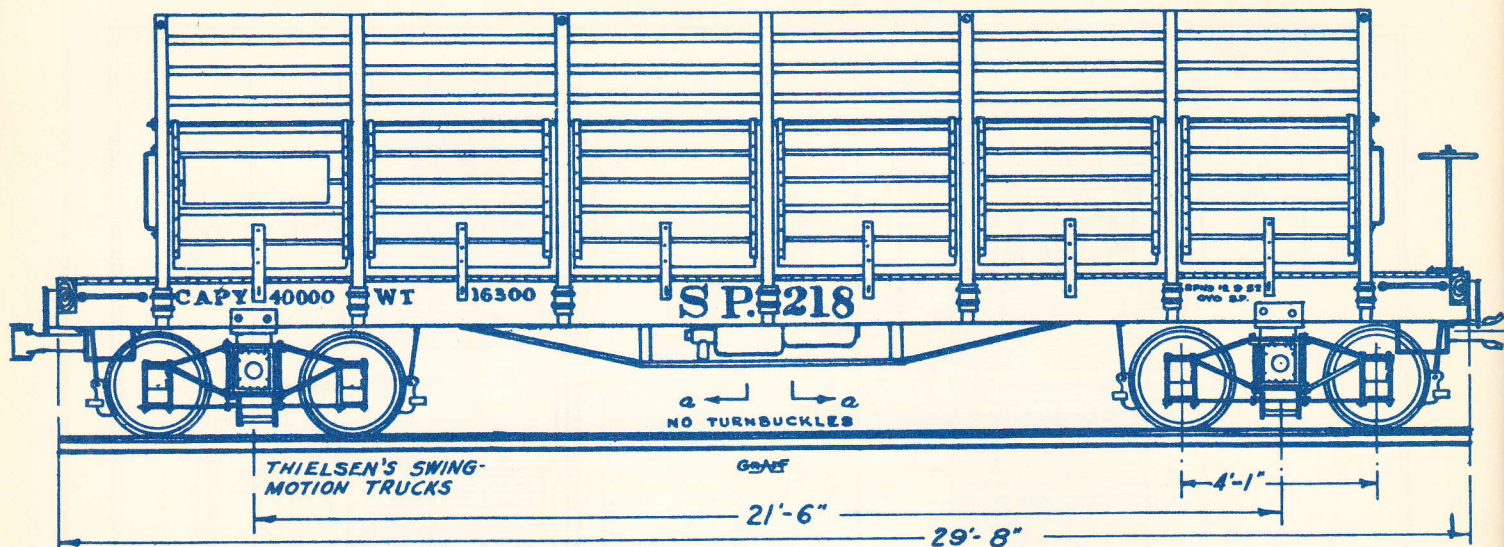


USE PASSENGER CAR TRUCKS



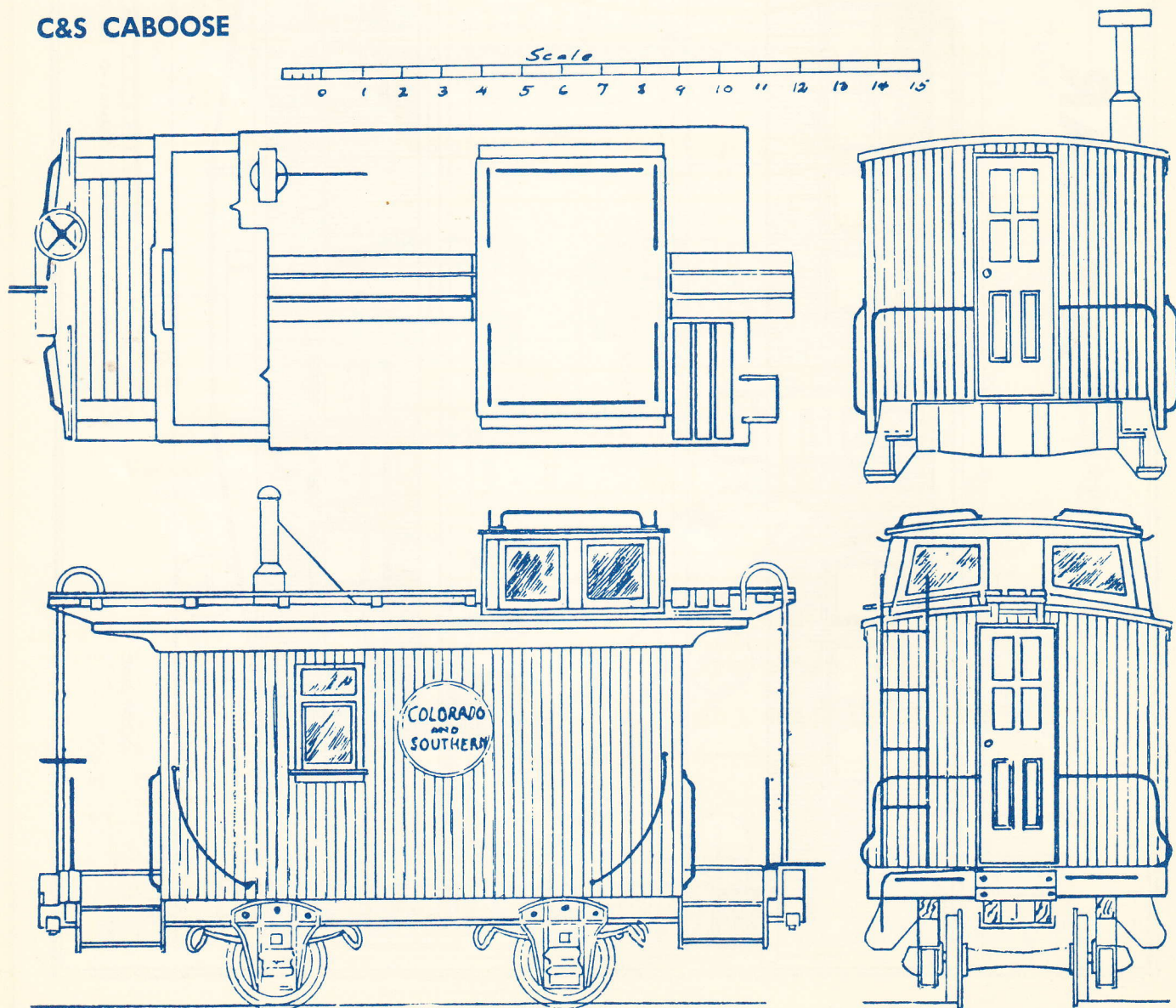
SCALE: 3:5 MM=1'-0" HO GAUGE

三



OPEN TOP STOCK CAR—SP

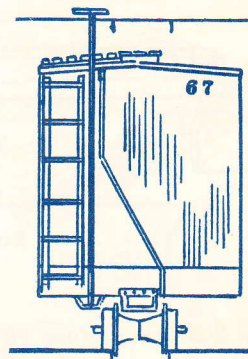
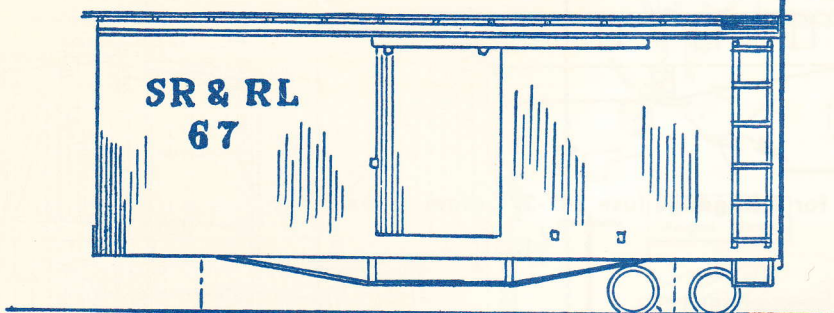
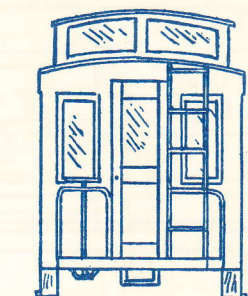
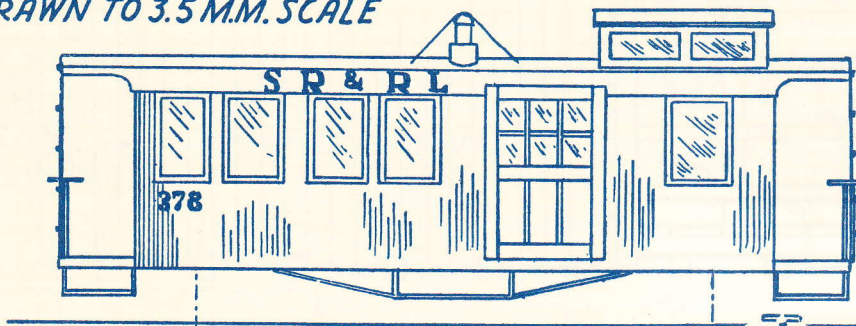
C&S CABOOSE



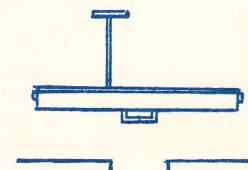
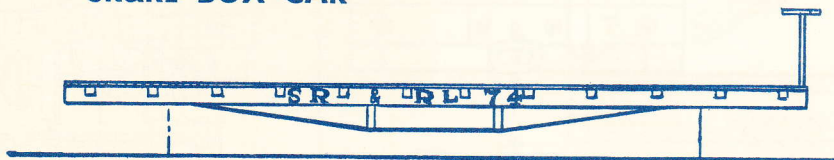
Narrow gauge rolling stock

2 FT. GAUGE CARS & TRACK
DRAWN TO 3.5 M.M. SCALE

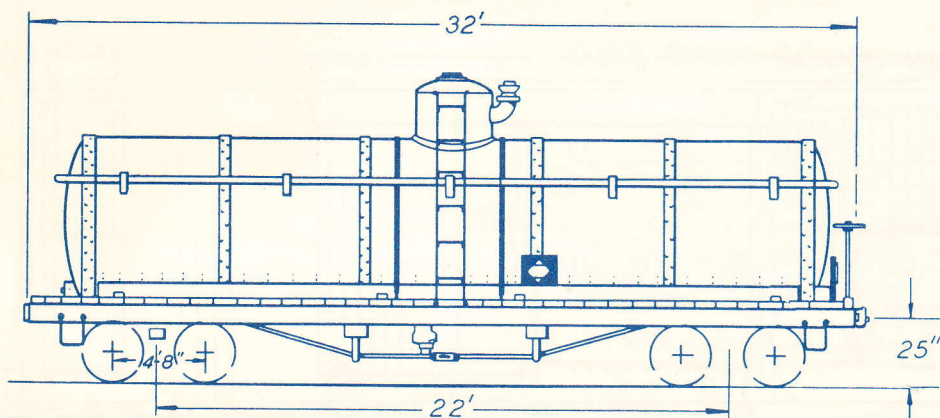
SR&RL CABOOSE



SR&RL BOX CAR



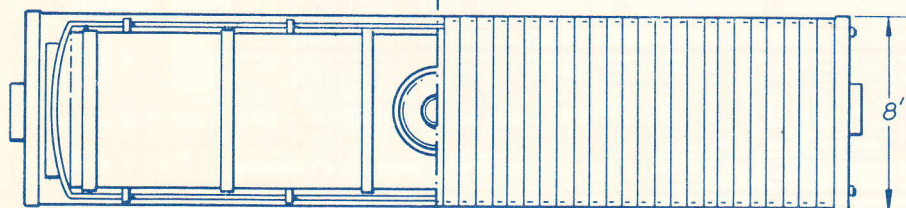
SR&RL FLAT CAR



PLANS
ARE SHOWN
FULL SIZE
HO
GAUGE

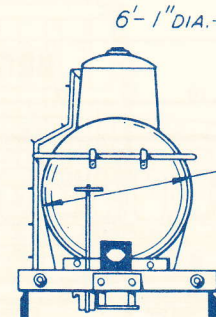
Prototype operated on the Nevada County Narrow Gauge (3 foot) line between Colfax and Grass Valley, Calif. This line, now abandoned, was built in 1876. Note how the tank is merely an accessory to the conventional flat car body.

NCNG TANK (AND FLAT) CAR

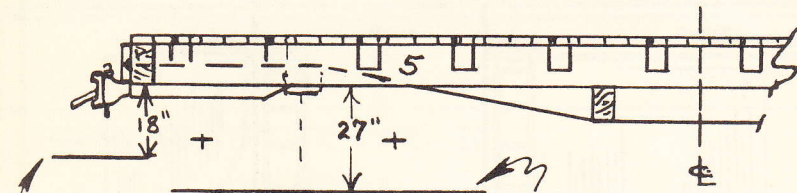
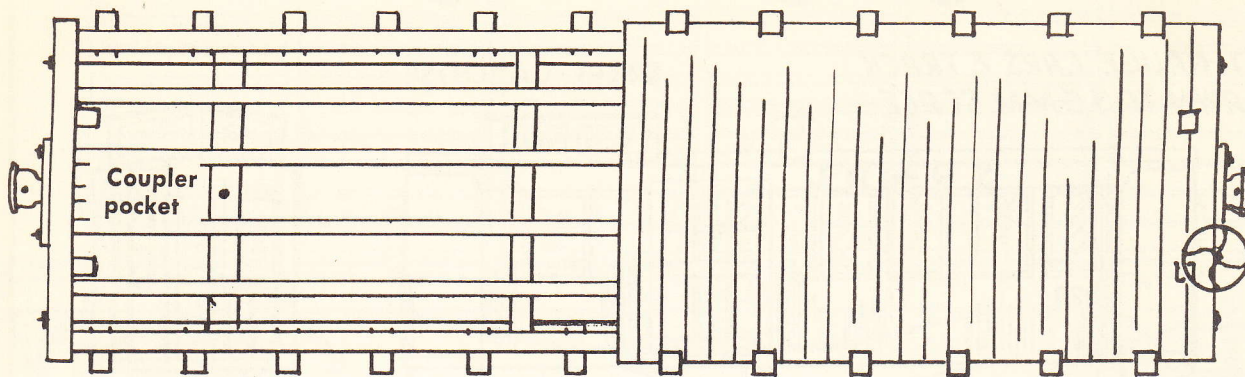


HALF TANK VIEW

HALF FLAT VIEW

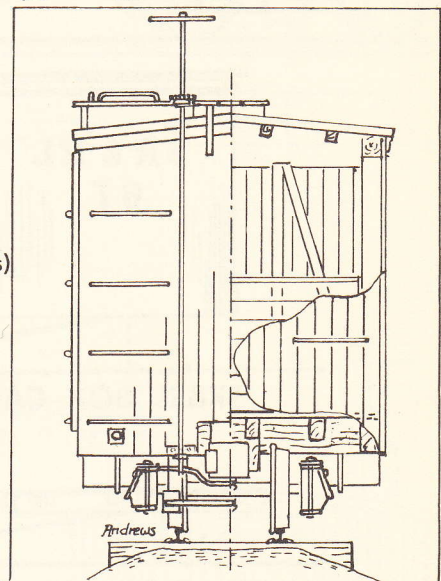
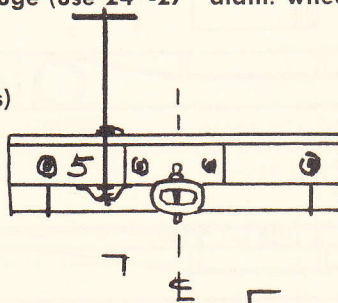


Some flats had only 6 or 8 stake pockets per side



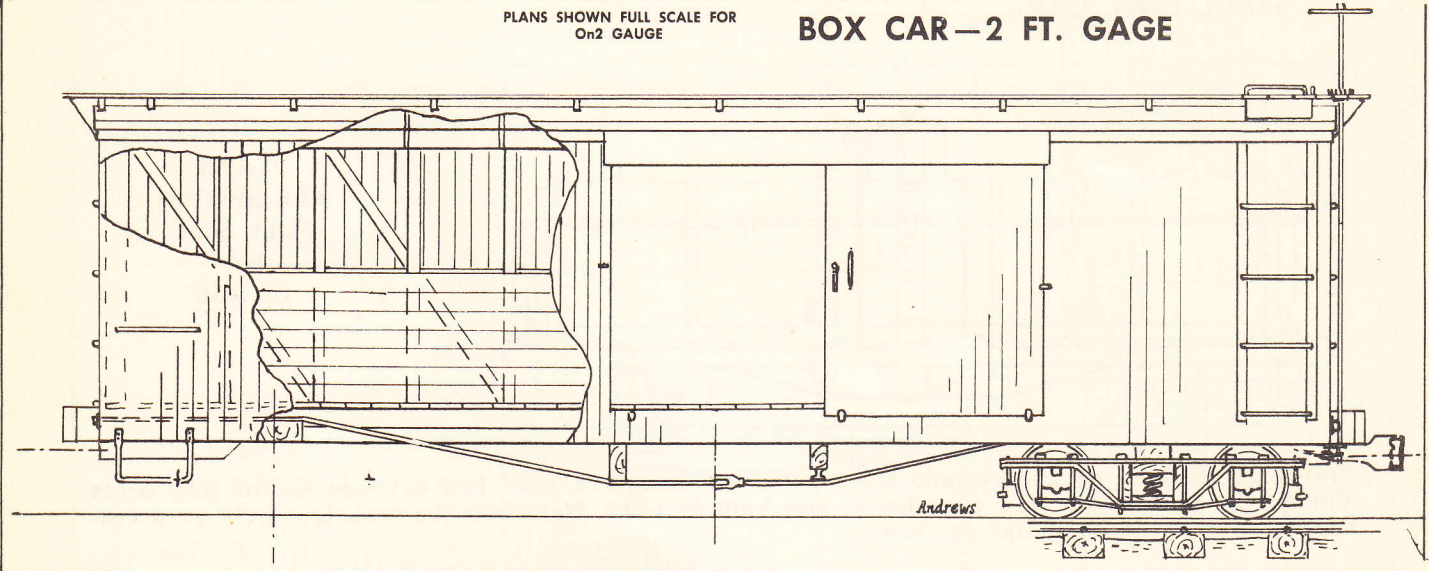
Rail level for 3 ft. gauge (use 24"-27" diam. wheels)

Rail level for 2 ft. gauge (use 18"-22" diam. wheels)

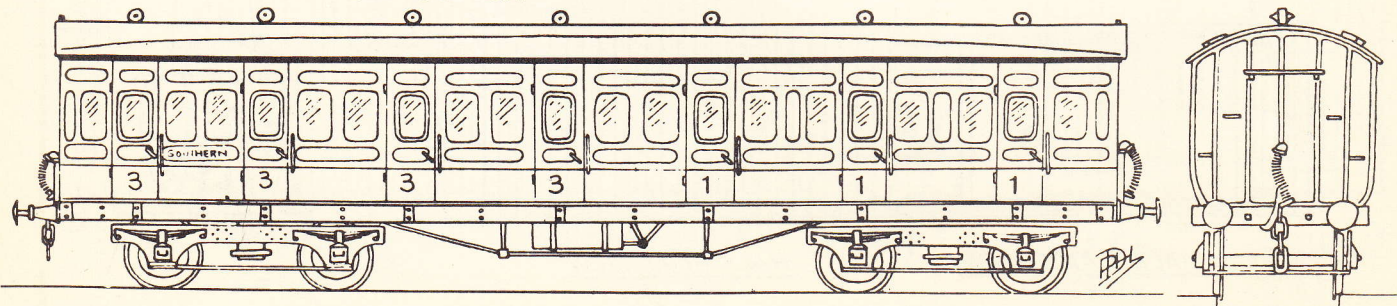


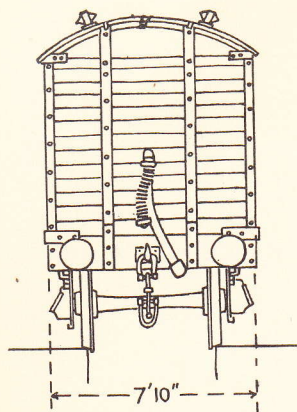
PLANS SHOWN FULL SCALE FOR
On2 GAUGE

BOX CAR—2 FT. GAGE

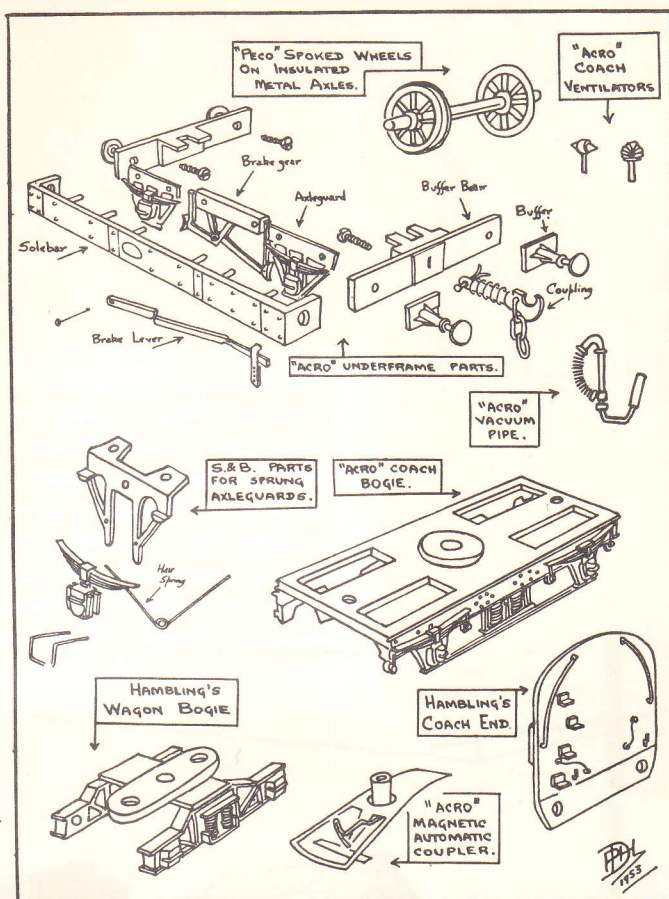
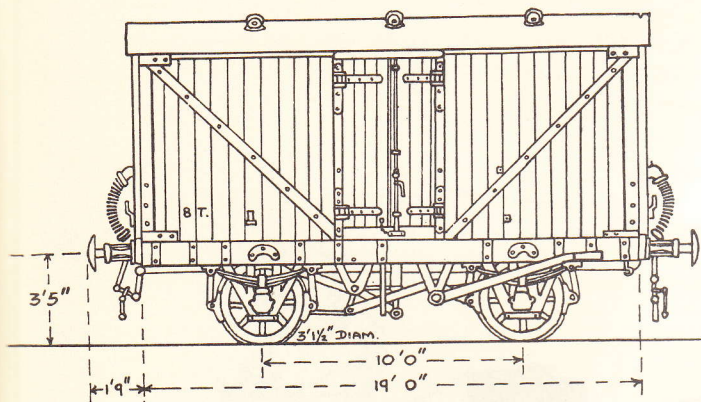


BRITISH COACH



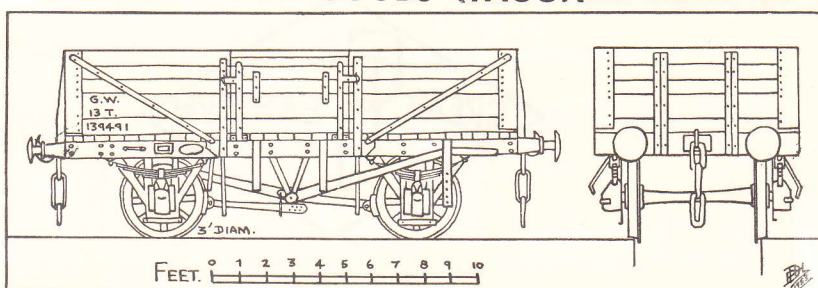


LNER GOODS VAN



BRITISH ROLLING-STOCK COMPONENTS.

GWR OPEN GOODS WAGON



BRITISH RYS. STANDARD BRAKE VAN

