WAGON TYPE	COMMODITY
YEA Perch (fitted with Yellow rail frames)	Stock Rail: 54m 56E1/60E2 108m 56E1/60E2 216m 56E1/60E2 183m 75kg Conductor Rail

Carrying Capacity:
Gross Laden Weight: 88 tonnes
Carrying Capacity: 54.8 tonnes.
Tare: 28.4 tonnes.
For exact loading limits see individual wagon on TOPS.

Load Positioning:

Please refer to individual table/diagrams for respective rail lengths and wagon types.Wagons may be loaded with up to 3 tiers of CEN 56E1 or CEN 60 E2 type rail.

Conductor rail may only be loaded up to 2 tiers.
Each tier may be loaded with 12 rails.

Part loads are permitted providing each tier is evenly loaded and each rail bay consists of 4 rails.
It is not permitted to have voids in lower positions.
Different rail types may not be loaded within the same tier, but each individual tier may be loaded with different rail types.

Rails shall protrude through the end rail frame by a minimum of 1500mm.

Rails must not overlap one another.

A minimum 50mm under-clearance shall be maintained between the foot of the rail and the upper most part of the wagon in the headstock area.
There are two types off spreader beam:

White are intermediate beams that fit into the rail frame and support the rails.
Yellow coloured beams are top beams that engage with the rail frame.

The spreader beams have bollards fitted on their underside that engage with the rail heads. These devices can only accommodate 4 rails.
Ensure all the rail ends are positioned in the acceptable safe loading area painted blue as shown in the diagrams.
Only rails of the same length may be loaded.
Test piece rails may only be loaded in upper tiers of the centre bay position.

Approved rail lengths:

Wagon	Rail (m)	Formation	Rails	Beams*	Diagram
YEA	108	5	36	F	1
	183	9	20	F/B/C	2
	54	3	36	F	3
	216	10	36	F	4

* Beams Positions: F = Frame B = Above Buffers C = Centre of Wagon

Stanchions: Wagons are not fitted with stanchions.

Bolsters:
All load bearing bolsters to be of a uniform height and in good condition.
The non-load bearing bolsters adjacent to the ends of the rails may have to be removed as detailed in the diagrams.

Dunnage:
Intermediate and top spreader beams. Spacer collar as required if loading less than three tiers.

Unsecured Loads: Not permitted.

Securing Equipment:
Each wagon is fitted with two rail support frames.
The outer wagons have the frames positioned depending on the rail length being loaded (see diagram).
The inner wagon frames are positioned inside the bogie centres.

Spreader beams are to be positioned at right angles to the rail; any damaged or bent beams are not to be used. When loading Conductor type rail spreader beams are additionally positioned between tiers of rails above the buffers and at the centre of the wagon.It is imperative that the correct orientation of the spreader beam is observed, with the rail being loaded on the top flat side of the spreader beam, the bottom side with rail guides must be positioned between the heads of the rails loaded directly underneath.

The upper spreader beam (painted yellow) is secured in position by 4 pins.

The pins are inserted through the frame and secured by an 'R' clip, both the pin and clip are secured by a chain of a specified length.

The lower position holes are for CEN56E1 type rail and the upper holes for CEN60E2 type rail.

When the train is empty the spreader beams are positioned in the frames, ensure the yellow beam is placed on top to keep all beams captive in the frames.

Special attention not to mix and match the spreader beams from IGA type wagons due to them being a longer length.

When loading either a single tier or 2 tiers additional spreader beams and spacers are used in the rail frames as follows:

For 3 tiers:

Each frame has 2 x white beams and 1 x red beam.

For 2 tiers:

Additional spacer, 1 x inverted red beam, 1 x inverted white beam, 1 x white beam plus 1 x white beam between tiers per frame.

For 1 tier:

Additional spacer, 1 x inverted red beam, 1 x inverted white beam and 3 x white beams.

Voids: Empty bays are permitted. Each bay shall have a minimum of 4 rails

Doors/Sides: Not applicable

Special Equipment:

Intermediate and top spreader beams, spacer collar.

Each wagon is fitted with two rail frames. Each rail frame weighs 1000kg which must be included within the load weight.

Competency: LE SRC – Load Examiner Stock Rail Carrier

Safety:

YEA Stock Rail Carrier wagons are subject to Exceptional Load procedure due to a minimum 120m-curve restriction.

RT3973 EXL Advice to Traincrews of Exceptional Load required

Diagram 1

Loading arrangement for 108m rails loaded over YEA Stock Rail Carriers

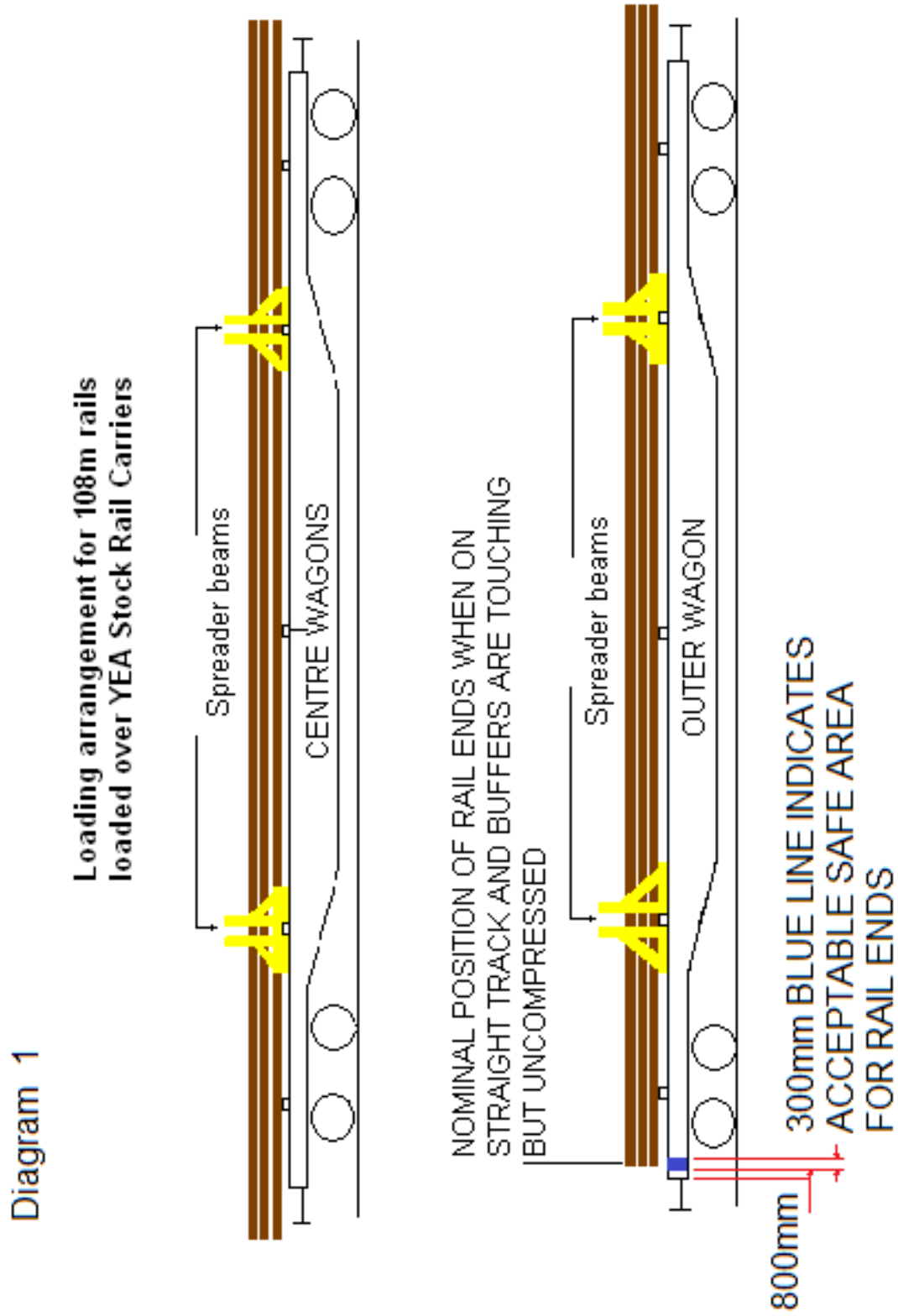
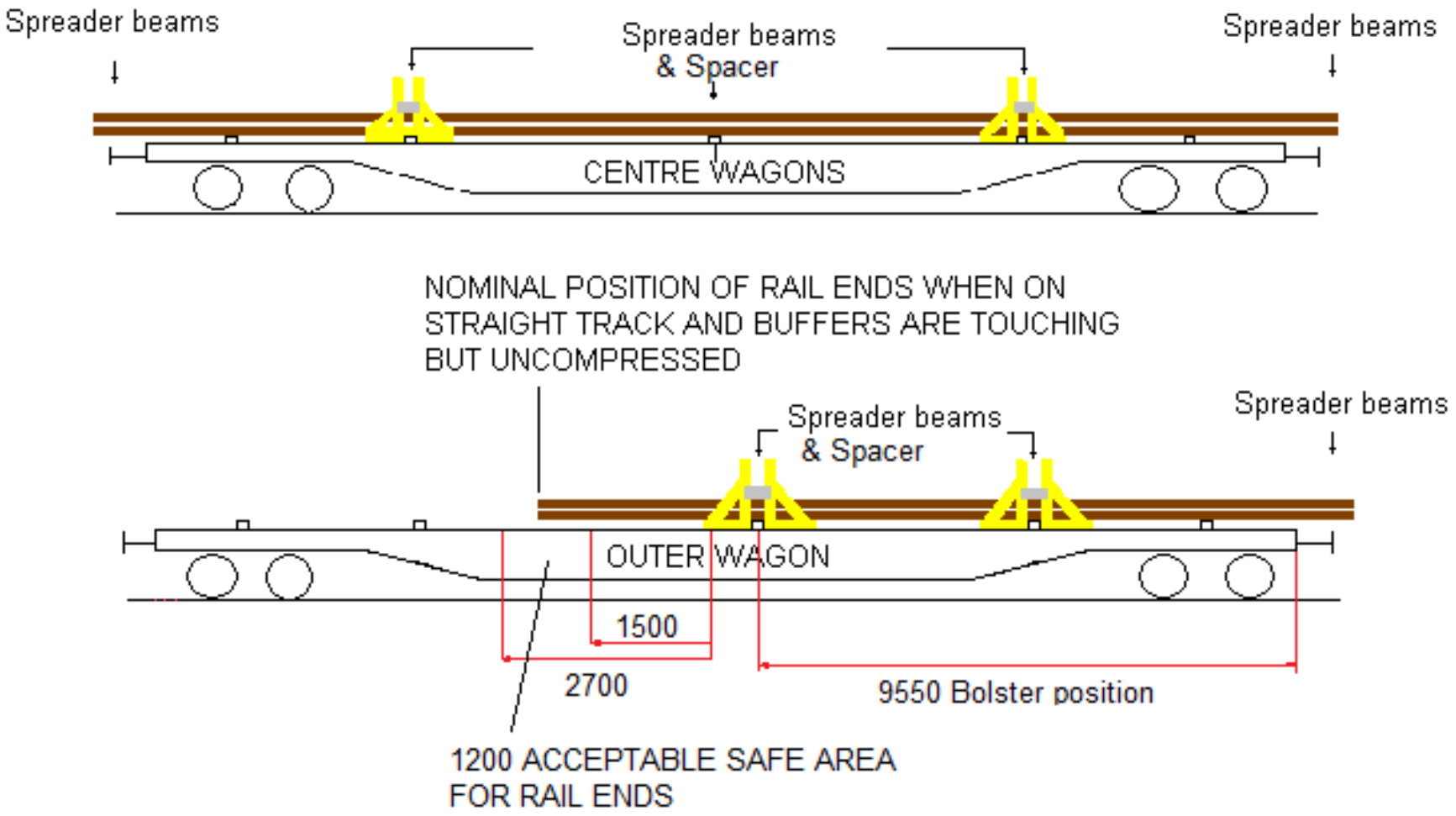


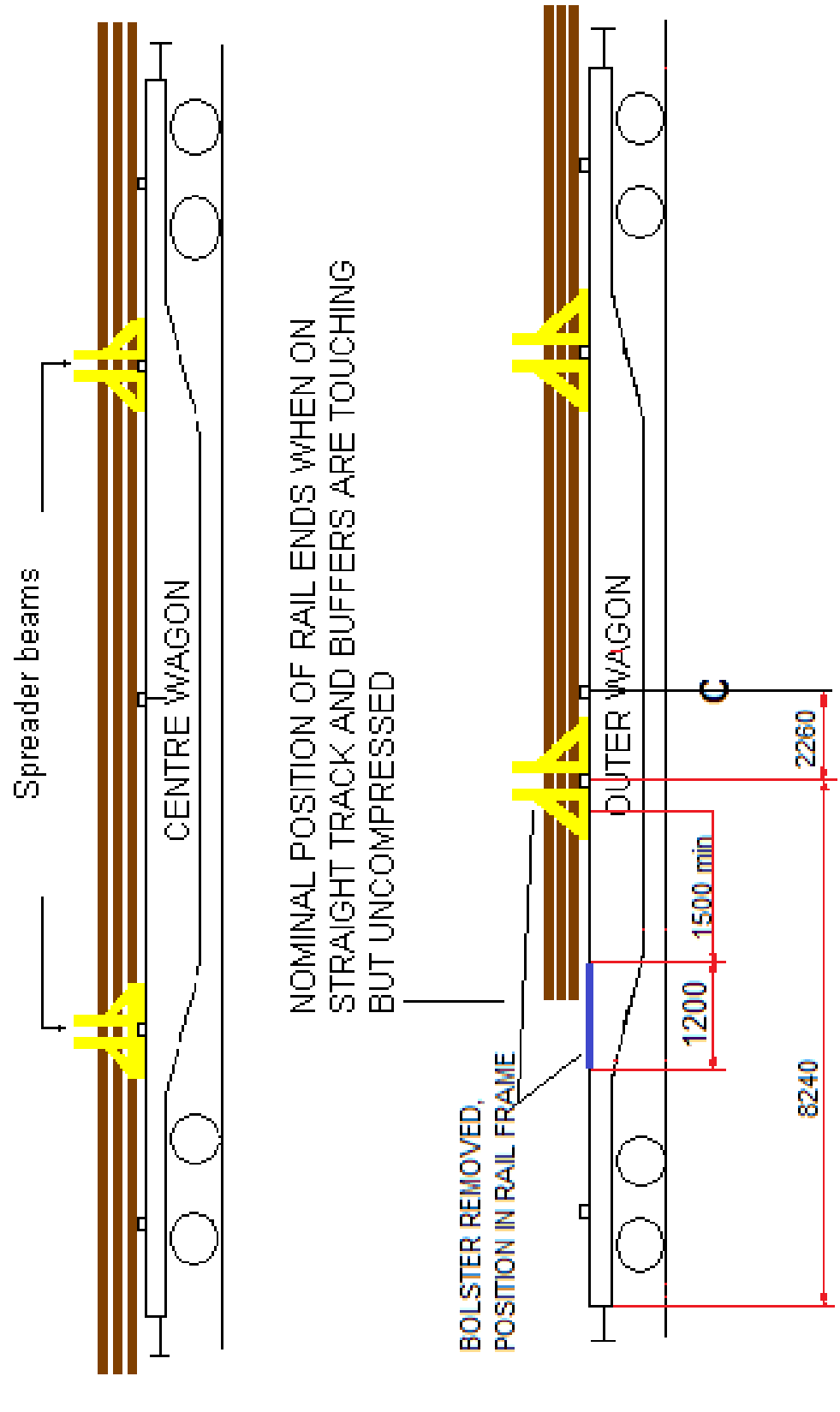
Diagram 2 183m Conductor Rail YEA Type Wagons



NOTE: All rail overhang data is taken from the outer edge of the end rail frame bolster

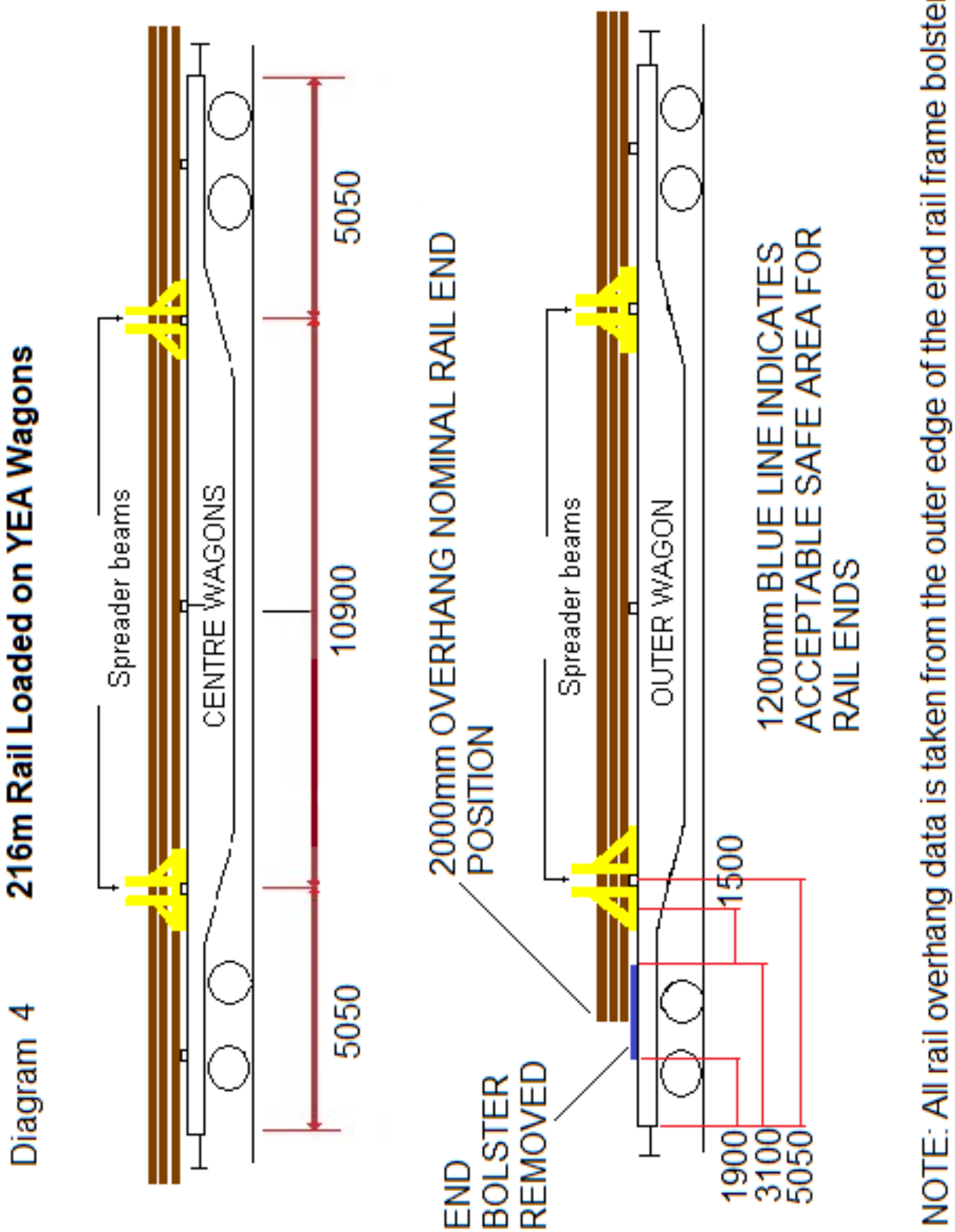
54m CEN 56/60 Rail Loaded on YEA type Wagons

Diagram 3



NOTE: All rail overhang data is taken from the outer edge of the end rail frame bolster

Diagram 4 216m Rail Loaded on YEA Wagons



NOTE: All rail overhang data is taken from the outer edge of the end rail frame bolster